

2

DTIC FILE COPY



AD-A228 531

# SURFACE OBSERVATION CLIMATIC SUMMARIES

FOR

## MORON AB, SPAIN

Prepared by

OL-A, USAFETAC  
ASHEVILLE, NORTH CAROLINA  
28801-2723

APRIL 1990

DTIC  
ELECTE  
NOV 13 1990  
S E D



APPROVED FOR PUBLIC RELEASE;  
DISTRIBUTION IS UNLIMITED

USAF  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

Scott Air Force Base, Illinois, 62225-5438

90 11 13 019

Ad 238  
F16 4

4900 317 370

REVIEW AND APPROVAL STATEMENT

USAFETAC/DS-90/209, SURFACE OBSERVATION CLIMATIC SUMMARIES FOR MORON AB SPAIN, APRIL 1990, HAS BEEN REVIEWED AND IS APPROVED FOR PUBLIC RELEASE. THERE IS NO OBJECTION TO UNLIMITED DISTRIBUTION OF THIS DOCUMENT TO THE PUBLIC AT LARGE, OR BY THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC) TO THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS).

**SIGNED**

JOSEPH L. BOYTE  
CHIEF, CLIMATIC APPLICATIONS, OL-A

FOR THE COMMANDER

  
WALTER S. BURGMANN  
SCIENTIFIC AND TECHNICAL INFORMATION  
PROGRAM MANAGER

REPORT DOCUMENTATION PAGE

2. REPORT DATE: APRIL 1990
3. REPORT TYPE AND DATES COVERED: DATA SUMMARY, MARCH 1958 TO OCTOBER 1989.
4. TITLE AND SUBTITLE: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) FOR MORON AB SPAIN
7. PERFORMING ORGANIZATION NAME AND ADDRESS: OPERATING LOCATION A, USAFETAC, FEDERAL BUILDING, ASHEVILLE, NC 28801-2723
8. PERFORMING ORGANIZATION REPORT NUMBER: USAFETAC/DS-90/209
9. SPONSORING/MONITORING AGENCY NAME AND ADDRESS: USAF ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER (USAFETAC), SCOTT AFB, IL 62225-5438
11. SUPPLEMENTARY NOTES: EFFECTIVE JULY 1 1988, THIS PRODUCT REPLACED TWO USAFETAC DOCUMENTS FORMERLY KNOWN AS THE REVISED UNIFORM SUMMARY OF SURFACE OBSERVATIONS (RUSSWO) AND THE LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARY (LISOCs). EXISTING RUSSWOS AND LISOCs WILL CONTINUE IN USE, BUT WILL EVENTUALLY BE BY A SOCS.
- 12A. DISTRIBUTION/AVAILABILITY STATEMENT: APPROVED FOR PUBLIC RELEASE, DISTRIBUTION IS UNLIMITED.
13. ABSTRACT: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) PROVIDE STATISTICAL CLIMATIC SUMMARIES OF SURFACE WEATHER OBSERVATIONS TAKEN AND RECORDED AT SPECIFIED USAF, CIVILIAN AND FOREIGN OBSERVING STATIONS. HOURLY OBSERVATIONS ARE SUMMARIZED FROM A 10-YEAR PERIOD OF RECORD (POR). "SUMMARY OF DAY" (SOD) INFORMATION IS SUMMARIZED FROM ALL AVAILABLE DATA IN THE OL-A, USAFETAC CLIMATIC DATABASE.
14. SUBJECT TERMS: CLIMATOLOGY, METEOROLOGICAL DATA, ATMOSPHERIC PHENOMENA, WEATHER, SOCS, MORON AB SPAIN, CEILING, CLOUD COVER, SNOW DEPTH, HUMIDITY, PRESSURE, PRECIPITATION, SNOW TEMPERATURE, VISIBILITY, WIND.
15. NUMBER OF PAGES: 375
17. SECURITY CLASSIFICATION OF REPORT: UNCLASSIFIED
18. SECURITY CLASSIFICATION OF THIS PAGE: UNCLASSIFIED
19. SECURITY CLASSIFICATION OF ABSTRACT: UNCLASSIFIED
20. LIMITATION OF ABSTRACT: UL



DTIC STANDARD FORM 298

III

|                    |                                     |
|--------------------|-------------------------------------|
| Accession For      |                                     |
| NTIS GRA&I         | <input checked="" type="checkbox"/> |
| DTIC TAB           | <input checked="" type="checkbox"/> |
| Unannounced        | <input type="checkbox"/>            |
| Justification      |                                     |
| By _____           |                                     |
| Distribution/      |                                     |
| Availability Codes |                                     |
| Dist               | Avail and/or Special                |
| A-1                |                                     |

9

45



➔

3

— 2 —

## CONTENTS

|                                                               |       |
|---------------------------------------------------------------|-------|
| INTRODUCTION.....                                             | 1     |
| STATION PERIOD OF RECORD.....                                 | 1     |
| DATA SOURCES.....                                             | 1     |
| TERMS EXPLAINED.....                                          | 1     |
| TIME CONVENTIONS.....                                         | 2     |
| ABBREVIATIONS.....                                            | 2     |
| SUMMARY DESCRIPTIONS.....                                     | 2     |
| STATION HISTORY.....                                          | 3     |
| PART A - ATMOSPHERIC PHENOMENA SUMMARIES.....                 | A-1-1 |
| SPECIFIED PHENOMENA                                           |       |
| PERCENT OCCURRENCE FREQUENCY (FROM HOURLY OBS).....           | A-2-1 |
| PERCENT OCCURRENCE FREQUENCY (FROM SOD DATA).....             | A-3-1 |
| PERCENT OCCURRENCE FREQUENCY (THUNDERSTORMS).....             | A-4-1 |
| VERSUS WIND DIRECTION--PERCENT OCCURRENCE FREQUENCY.....      | A-5-1 |
| PART B - PRECIPITATION, SNOWFALL, AND SNOW DEPTH.....         | B-1-1 |
| PRECIPITATION                                                 |       |
| PERCENT OCCURRENCE FREQUENCY.....                             | B-2-1 |
| MONTHLY TOTALS.....                                           | B-2-2 |
| DAILY EXTREMES.....                                           | B-2-3 |
| SNOWFALL                                                      |       |
| PERCENT OCCURRENCE FREQUENCY.....                             | B-3-1 |
| MONTHLY TOTALS.....                                           | B-3-2 |
| DAILY EXTREMES.....                                           | B-3-3 |
| SNOW DEPTH                                                    |       |
| PERCENT OCCURRENCE FREQUENCY.....                             | B-4-1 |
| DAILY EXTREMES.....                                           | B-4-2 |
| SNOWFALL/SNOW DEPTH                                           |       |
| FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR.....           | B-5-1 |
| PART C - SURFACE WIND                                         |       |
| PEAK WINDS (FROM SOD DATA).....                               | C-2-1 |
| PEAK WINDS--PERCENT OCCURRENCE FREQUENCY (FROM SOD DATA)..... | C-3-1 |
| WIND DIRECTION VS WIND SPEED--POF (FROM HOURLY OBS).....      | C-4-1 |
| PART D - CEILING, VISIBILITY AND SKY COVER                    |       |
| CEILING VS VISIBILITY--POF (FROM HOURLY OBS).....             | D-2-1 |
| SKY COVER--POF (FROM HOURLY OBS).....                         | D-3-1 |

|                                                              |       |
|--------------------------------------------------------------|-------|
| PART E - TEMPERATURE AND RELATIVE HUMIDITY.....              | E-1-1 |
| TEMPERATURES--CUMULATIVE POF (FROM SOD DATA)                 |       |
| MAXIMA.....                                                  | E-2-1 |
| MINIMA.....                                                  | E-2-2 |
| MEAN.....                                                    | E-2-3 |
| MONTHLY TEMPERATURES (FROM SOD DATA)                         |       |
| MAXIMA.....                                                  | E-3-1 |
| MINIMA.....                                                  | E-3-2 |
| MEAN.....                                                    | E-4-1 |
| DRY BULB, WET BULB, DEW POINT TEMPERATURES (FROM HOURLY OBS) |       |
| DRY BULB.....                                                | E-5-1 |
| WET BULB.....                                                | E-5-2 |
| DEW POINT.....                                               | E-5-3 |
| RELATIVE HUMIDITY (FROM HOURLY OBS)                          |       |
| CUMULATIVE PERCENT OCCURRENCE FREQUENCY.....                 | E-6-1 |
| PART F - PRESSURE (FROM HOURLY OBS).....                     | F-1-1 |
| SEA LEVEL PRESSURE.....                                      | F-2-1 |
| ALTIMETER SETTING.....                                       | F-3-1 |
| STATION PRESSURE.....                                        | F-4-1 |
| PART G - CROSSWIND SUMMARIES (FROM HOURLY OBS).....          | G-1-1 |
| PERCENT OCCURRENCE FREQUENCY.....                            | G-2-1 |
| PART H - DEGREE DAY SUMMARIES (FROM HOURLY OBS).....         | H-1-1 |
| HEATING DEGREE DAYS.....                                     | H-2-1 |
| COOLING DEGREE DAYS.....                                     | H-3-1 |

## INTRODUCTION

### STATION PERIOD OF RECORD.

HOURLY OBSERVATIONS: NOV 74 - OCT 89 (METAR/15-YR POR. USED).

SUMMARY OF DAY DATA: MAR 58 - MAR 70 (FULL TIME).

SUMMARY OF DAY DATA: APR 70 - APR 72 (PART TIME - NO SOD DATA AVAILABLE AFTER 7204).

HOURS SUMMARIZED: 00-23 LST (5803-7003), 07-19 LST (7004-7204, 7411-8910).

DATA SOURCES. THESE SUMMARIES ARE COMPILED FROM "HOURLY OBSERVATIONS" AND/OR SUMMARY OF DAY DATA," DEPENDING ON THE PHENOMENA OR OCCURRENCE BEING SUMMARIZED. THE TWO SOURCES ARE DEFINED IN "TERMS EXPLAINED."

### TERMS EXPLAINED:

BIVARIATE DISTRIBUTION: A BIVARIATE DISTRIBUTION GIVES THE JOINT DISTRIBUTIONS OF TWO RELATED VARIABLES. AN EXAMPLE IS THE BIVARIATE DISTRIBUTION OF CEILING AND VISIBILITIES IN PART D. EACH ROW AND EACH COLUMN OF A BIVARIATE DISTRIBUTION IS A FREQUENCY DISTRIBUTION. JOINT FREQUENCIES ARE FOUND AT THE ROW-COLUMN INTERSECTIONS.

HOURLY OBSERVATIONS: ALL RECORD OR RECORD-SPECIAL OBSERVATIONS ON AWS FORMS 10/10A (OR EQUIVALENT) AT SCHEDULED HOURLY INTERVALS.

SUMMARY OF DAY (SOD) DATA: DATA COMPILED FROM ALL AVAILABLE OBSERVATIONAL SOURCES, INCLUDING HOURLY OBSERVATIONS, SPECIAL OBSERVATIONS, REMARKS, AND ACTUAL "SUMMARY OF DAY" DATA RECORDED IN COLUMNS 44-73 OF AWS FORMS 10/10A (OR EQUIVALENT) FOR ANY GIVEN DAY. NOTE: EXTREMES OCCURRING DURING NON-OPERATIONAL HOURS AND/OR DAYS ARE NOT REFLECTED IN THESE SUMMARIES.

MEAN: THE SUM OF ALL THE VALUES DIVIDED BY THE NUMBER OF VALUES.

MEASURABLE AMOUNT: ANY PRECIPITATION OR SNOWFALL AMOUNT GREATER THAN A TRACE.

MEDIAN: THE MIDDLE VALUE WHEN THE VALUES ARE IN ASCENDING ORDER. IF THE NUMBER OF VALUES IS EVEN, THE MEDIAN IS HALFWAY BETWEEN THE TWO MIDDLE VALUES.

PERCENT OCCURRENCE FREQUENCY (POF): IN STATISTICS, FREQUENCY IS THE NUMBER OF TIMES A GIVEN COUNT OR EVENT OCCURS. IN THE SOCS, THIS IS EXPRESSED AS THE PERCENT OCCURRENCE FREQUENCY (POF), WHERE THE FREQUENCY (NUMBER OF OCCURRENCES) IS GIVEN AS A PERCENT OF ALL POSSIBLE OCCURRENCES IN THE SAMPLE (PERIOD SUMMARIZED). FOR EXAMPLE, IF SNOW FELL ON 5 OUT OF 100 DAYS WE COULD EXPRESS THE "PERCENT OCCURRENCE FREQUENCY" OF SNOW AS 5 PERCENT OVER THE 100-DAY PERIOD. MAY BE USED INTERCHANGEABLY WITH "PERCENT FREQUENCY OF OCCURRENCE."

PERIOD OF RECORD: THE SIZE OF THE OBSERVATIONAL DATA SAMPLE, IN YEARS.

PRECIPITATION: A TERM THAT INCLUDES BOTH LIQUID PRECIPITATION AND WATER EQUIVALENT.

STANDARD DEVIATION: A MEASURE OF DISPERSION ON THE VARIABILITY OF THE QUANTITY CONCERNED ABOUT ITS ARITHMETIC MEAN. THE LARGER THE STANDARD DEVIATION, THE GREATER THE VARIABILITY.

TIME CONVENTIONS: ALL TIMES IN THE SOCS ARE EXPRESSED IN LOCAL STANDARD TIME (LST). USERS SHOULD MAKE ADJUSTMENTS FOR DAYLIGHT SAVING TIMES IN THEIR AREAS. IN SUMMARIES THAT SHOW DIURNAL VARIATIONS, THE DATA IS SUMMARIZED USING THE FOLLOWING STANDARD 3-HOUR PERIODS (ALL LST):

|           |           |
|-----------|-----------|
| 0000-0200 | 1200-1400 |
| 0300-0500 | 1500-1700 |
| 0600-0800 | 1800-2000 |
| 0900-1100 | 2100-2300 |

NOTE 1. DURING PART TIME PERIODS, THE FIRST AND LAST 3-HOUR PERIODS MAY HAVE SIGNIFICANT SHORTFALLS IN OBSERVATION COUNTS.

ABBREVIATIONS USED:

|      |                          |        |                              |
|------|--------------------------|--------|------------------------------|
| AMT  | AMOUNT                   | LT     | LESS THAN                    |
| ANN  | ANNUAL                   | M      | METER                        |
| BARO | BAROMETER                | MB     | MILLIBAR                     |
| C    | CENTIGRADE (CELSIUS)     | MPS    | METERS PER SECOND            |
| DEG  | DEGREE                   | MSL    | MEAN SEA LEVEL               |
| DB   | DRY BULB TEMPERATURE     | MEAS   | MEASURABLE                   |
| DP   | DEW POINT TEMPERATURE    | NO.    | NUMBER                       |
| EO   | EQUAL                    | OBS    | OBSERVATION                  |
| F    | FAHRENHEIT               | OBST   | OBSTRUCTION                  |
| FRZG | FREEZING                 | POF    | PERCENT OCCURRENCE FREQUENCY |
| FT   | FEET                     | PRECIP | PRECIPITATION                |
| GE   | GREATER THAN OR EQUAL TO | SD     | STANDARD DEVIATION           |
| GMT  | GREENWICH MEAN TIME      | SOD    | SUMMARY OF DAY               |
| GT   | GREATER THAN             | TEMP   | TEMPERATURE                  |
| HG   | INCHES OF MERCURY        | TSTM   | THUNDERSTORM                 |
| HT   | HEIGHT                   | VSBY   | VISIBILITY                   |
| KTS  | KNOTS                    | VSN    | VISION                       |
| LE   | LESS THAN OR EQUAL TO    | WB     | WET BULB TEMPERATURE         |
| LST  | LOCAL STANDARD TIME      | WBAN   | AWS FORM 10/10A              |
|      |                          | UTC    | *COORDINATED UNIVERSAL TIME  |

SUMMARY DESCRIPTION: A BRIEF DESCRIPTION OF THE DATA PRECEDES EACH PART IN THE SOCS.

\* UTC REPLACED GMT ON 1 AUGUST 1988

| STATION NO.<br>ON SUMMARY | STATION NAME   | LATITUDE | LONGITUDE | FLD ELEV (FT) | CALL SIGN | WMO NMBR |
|---------------------------|----------------|----------|-----------|---------------|-----------|----------|
| 083970                    | MORON AB SPAIN | N 37 11  | W 005 37  | 28            | LEMO      | 08397    |

  

| STATION LOCATION AND INSTRUMENTATION HISTORY |                              |                       |                  |        |          |           |                |           |                   |
|----------------------------------------------|------------------------------|-----------------------|------------------|--------|----------|-----------|----------------|-----------|-------------------|
| Nmb<br>of<br>Loc                             | GEOGRAPHICAL LOCATION & NAME | Type<br>of<br>Station | At This Location |        | LATITUDE | LONGITUDE | Elev Above MSL |           | OBS<br>PER<br>DAY |
|                                              |                              |                       | From             | To     |          |           | FLD (FT)       | BARO (FT) |                   |
| 1                                            | Moron AB Spain               | AB                    | Jan 58           | Feb 58 | N 37 10  | W 005 34  | 296            | 341       | 8                 |
| 2                                            | Same                         | AB                    | Mar 58           | Jun 62 | N 37 11  | W 005 36  | 306            | Same      | 24                |
| 3                                            | Same                         | AB                    | Jul 62           | Feb 67 | Same     | Same      | Same           | 272       | 24                |
| 4                                            | Same                         | AB                    | Mar 67           | Mar 70 | Same     | Same      | 307            | Same      | 24                |
| 5                                            | Same                         | AB                    | Apr 70           | Apr 72 | Same     | Same      | Same           | Same      | 10                |
| 6*                                           | Moron AB(Spanish AF) Spain   | AB                    | May 72           | Mar 90 | Same     | W 005 37  | 287            | Same      | 13                |
| *AWS de-act 30 Apr 72                        |                              |                       |                  |        |          |           |                |           |                   |

  

| Nmb<br>of<br>Loc | Date of<br>Change | SURFACE WIND EQUIPMENT INFORMATION |                        |                     |                    | REMARKS, ADDITIONAL EQUIP-<br>MENT, OR REASON FOR CHANGE |
|------------------|-------------------|------------------------------------|------------------------|---------------------|--------------------|----------------------------------------------------------|
|                  |                   | LOCATION                           | TYPE OF<br>TRANSMITTER | TYPE OF<br>RECORDER | HT ABOVE<br>GROUND |                                                          |
| 1                | Jan 58            | Hand-held on catwalk of twr        | ML-433PM               | None                | 66 ft              |                                                          |
| 2                | Mar 58            | Atop control tower                 | AN/GMQ-1               | None                | 75 ft              |                                                          |
| 3                | Mar 60            | On catwalk of control twr          | Same                   | None                | 91 ft              |                                                          |
| 4                | Mar 61            | Atop control tower                 | Same                   | ML-204B             | 370 ft             |                                                          |
| 5                | Jan 62            | Near TD point of rwy 21            | AN/GMQ-11              | None                | 9 ft               |                                                          |
| 6                | Jul 62            | 1000'down & 500'L of TD point      | Same                   | RO-2                | 12 ft              |                                                          |
| 7                | Mar 90            | Unknown                            | Unkn                   | Unkn                | Unkn               |                                                          |

|          |          |          |          |          |
|----------|----------|----------|----------|----------|
| PPPPPPPP | AAAAAA   | RRRRRRRR | TTTTTTTT | AAAAAA   |
| PPPPPPPP | AAAAAAA  | RRRRRRRR | TTTTTTTT | AAAAAAA  |
| PP PP    | AA AA    | RR RR    | TT       | AA AA    |
| PP PP    | AA AA    | RR RR    | TT       | AA AA    |
| PPPPPPPP | AA AA    | RRRRRRRR | TT       | AA AA    |
| PPPPPPPP | AAAAAAAA | RRRRRRRR | TT       | AAAAAAAA |
| PP       | AAAAAAAA | RR RR    | TT       | AAAAAAAA |
| PP       | AA AA    | RR RR    | TT       | AA AA    |
| PP       | AA AA    | RR RR    | TT       | AA AA    |
| PP       | AA AA    | RR RR    | TT       | AA AA    |

PART A

ATMOSPHERIC PHENOMENA SUMMARIES

THIS PART SUMMARIZES SPECIFIED ATMOSPHERIC PHENOMENA IN CATEGORIES AS FOLLOWS:

THUNDERSTORMS: ALL REPORTED OCCURRENCES OF THUNDERSTORMS, TORNADOES, AND WATERSPOUTS.

LIQUID PRECIPITATION: RAIN OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING PRECIPITATION: FREEZING RAIN OR FREEZING DRIZZLE (GLAZE).

FROZEN PRECIPITATION: SNOW, SNOW PELLETS, SLEET, SNOW GRAINS, ICE CRYSTALS, ICE PELLETS. IN JANUARY 1968, SNOW PELLETS BECAME KNOWN AS SMALL HAIL.

HAIL: ALL OCCURRENCES OF HAIL.

ALL PRECIPITATION: INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY BE INCLUDED IN THE SAME OBSERVATION, THE SUM OF PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

FOG: INCLUDES ALL REPORTED FOG, ICE FOG, AND GROUND FOG.

SMOKE AND/OR HAZE: SMOKE, HAZE, OR COMBINATIONS OF THE TWO.

BLOWING SNOW: ALL REPORTS OF BLOWING SNOW, INCLUDING DRIFTING SNOW, WHEN REPORTED.

DUST AND/OR SAND: DUST, SAND, BLOWING DUST, BLOWING SAND, OR COMBINATIONS OF THESE.

BLOWING SPRAY: THE "ALL OBSTRUCTIONS TO VISION" CATEGORY ACCOUNTS FOR BLOWING SPRAY, IF AND AS REPORTED.

ALL OBSTRUCTIONS TO VISION: THIS CATEGORY INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION. SINCE THE OCCURRENCE OF MORE THAN ONE OBSTRUCTION TO VISION MAY BE REPORTED IN THE SAME OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL CATEGORIES MAY EXCEED THE PERCENTAGES IN THIS CATEGORY.

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY (POF) FOR THE ATMOSPHERIC PHENOMENA SHOWN. THE DATA WAS TAKEN FROM HOURLY OBSERVATIONS ONLY, AND IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY (POF).

THIS TABLE IS THE ONLY ONE IN PART A THAT IS PRODUCED FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED MONTHLY AND ANNUALLY FOR ALL YEARS COMBINED.

THUNDERSTORMS--PERCENT OCCURRENCE FREQUENCY.

THIS TABLE GIVES THE PERCENT OCCURRENCE FREQUENCY OF THUNDERSTORMS REPORTED ON THE HOURLY OBSERVATION. DATA IS SUMMARIZED SAME AS FOR FIRST TABLE IN THIS PART.

SPECIFIED PHENOMENA VS WIND DIRECTION--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES INCLUDE SUMMARY OF MONTH FOR ALL HOURS AND YEARS COMBINED. WIND DIRECTION CATEGORIES ARE AS SPECIFIED BY THE LOCAL WEATHER STATION.

NOTE 1: REPORTING PRACTICES HAVE CHANGED WITH TIME. METAR AND SYNOPTIC REPORTING STATIONS RECORD (ON AWS FORMS 10/10A) AND TRANSMIT LONGLINE ONLY THE HIGHEST ORDER ATMOSPHERIC PHENOMENA THAT AFFECTS VISIBILITY. METAR STATIONS STARTED THIS PROCEDURE IN JANUARY 1968, BUT SYNOPTIC STATIONS ALWAYS DID IT THAT WAY. IN JANUARY 1979, METAR STATIONS STARTED RECORDING ALL ATMOSPHERIC PHENOMENA THAT AFFECTED VISIBILITY, BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE RECORDED OBSERVATION INCLUDED RAIN, FOG AND HAZE, ONLY THE RAIN WAS TRANSMITTED. BECAUSE OF THESE PROCEDURES, THE USAFETAC DATABASE WOULD SHOW ONLY RAIN AS AN OBSTRUCTION. THEREFORE, THE OBSTRUCTION TO VISION (AND TO A LESSER EXTENT, PRECIPITATION) SUMMARIES FOR METAR AND SYNOPTIC STATIONS ARE HIGHLY QUESTIONABLE.

NOTE 2: FOREIGN METAR REPORTING STATIONS FREQUENTLY DO NOT TRANSMIT OBSTRUCTIONS TO VISION WHEN VISIBILITIES EXCEED 1000 METERS.

NOTE 3: A VALUE OF ".0" IN ANY SUMMARY REPRESENTS ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

NOTE 4: DURING PART TIME PERIODS, THESE TABLES MAY NOT ACCURATELY REFLECT NIGHTTIME AND/OR WEEKEND OCCURRENCES OF CERTAIN PHENOMENA.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB. SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN

| HOURS<br>(LST) | TSTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|----------------|-------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| 00-02          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 03-05          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 06-08          |       | 6.4              |                 |                  |      | 6.4           | 26.1 | 5.8                   |                 | .4                   | 38.8                  | 498                    |
| 09-11          |       | 7.4              |                 |                  |      | 7.4           | 33.0 | 13.0                  |                 | .4                   | 53.9                  | 1166                   |
| 12-14          | .1    | 7.2              |                 |                  |      | 7.2           | 12.5 | 24.5                  |                 | 2.1                  | 46.3                  | 1139                   |
| 15-17          | .2    | 6.4              |                 |                  |      | 6.4           | 3.2  | 10.1                  |                 | .4                   | 20.0                  | 1084                   |
| 18-20          |       | 5.5              |                 |                  |      | 5.5           | 3.6  | 8.3                   |                 |                      | 17.4                  | 615                    |
| 21-23          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| ALL<br>HOURS   | .1    | 6.7              |                 |                  |      | 6.7           | 15.9 | 13.8                  |                 | .8                   | 37.1                  | 4502                   |

MONTH: FEB

|              |    |      |  |  |  |      |      |      |  |     |      |      |
|--------------|----|------|--|--|--|------|------|------|--|-----|------|------|
| 00-02        |    |      |  |  |  |      |      |      |  |     |      | 0    |
| 03-05        |    |      |  |  |  |      |      |      |  |     |      | 0    |
| 06-08        |    | 7.5  |  |  |  | 7.5  | 33.5 | 6.9  |  |     | 47.8 | 481  |
| 09-11        | .1 | 8.1  |  |  |  | 8.1  | 38.0 | 14.8 |  | .9  | 61.8 | 1049 |
| 12-14        |    | 7.7  |  |  |  | 7.7  | 13.4 | 20.9 |  | 1.1 | 43.2 | 1065 |
| 15-17        | .5 | 10.1 |  |  |  | 10.1 | 2.9  | 8.7  |  |     | 21.8 | 1020 |
| 18-20        |    | 7.9  |  |  |  | 7.9  | 3.9  | 7.9  |  | .3  | 20.1 | 668  |
| 21-23        |    |      |  |  |  |      |      |      |  |     |      | 0    |
| ALL<br>HOURS | .1 | 8.4  |  |  |  | 8.4  | 17.7 | 12.9 |  | .5  | 39.6 | 4283 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR

| HOURS<br>(LST) | TSTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|----------------|-------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| 00-02          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 03-05          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 06-08          |       | 2.6              |                 |                  |      | 2.6           | 25.9 | 11.4                  |                 | .2                   | 40.1                  | 544                    |
| 09-11          |       | 3.0              |                 |                  |      | 3.0           | 23.3 | 18.3                  |                 | .8                   | 45.4                  | 1123                   |
| 12-14          |       | 3.4              |                 |                  |      | 3.4           | 5.5  | 15.7                  |                 | 1.1                  | 25.7                  | 1162                   |
| 15-17          | .4    | 5.3              |                 |                  |      | 5.3           | .9   | 7.3                   |                 | .6                   | 14.0                  | 1042                   |
| 18-20          | .4    | 5.9              |                 |                  |      | 5.9           | .8   | 6.3                   |                 | .1                   | 13.1                  | 747                    |
| 21-23          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| ALL<br>HOURS   | .2    | 4.0              |                 |                  |      | 4.0           | 10.4 | 12.4                  |                 | .6                   | 27.5                  | 618                    |

MONTH: APR

|              |    |     |  |  |  |     |      |      |  |    |      |      |
|--------------|----|-----|--|--|--|-----|------|------|--|----|------|------|
| 00-02        |    |     |  |  |  |     |      |      |  |    |      | 0    |
| 03-05        |    |     |  |  |  |     |      |      |  |    |      | 0    |
| 06-08        |    | 6.9 |  |  |  | 6.9 | 29.3 | 11.4 |  |    | 47.6 | 694  |
| 09-11        | .2 | 5.9 |  |  |  | 5.9 | 16.0 | 21.2 |  | .4 | 43.5 | 1179 |
| 12-14        | .5 | 7.5 |  |  |  | 7.5 | 3.0  | 14.8 |  | .2 | 25.5 | 1089 |
| 15-17        | .5 | 6.4 |  |  |  | 6.4 | .9   | 8.9  |  |    | 16.2 | 1141 |
| 18-20        | .1 | 6.0 |  |  |  | 6.0 | .3   | 6.8  |  | .1 | 13.3 | 777  |
| 21-23        |    |     |  |  |  |     |      |      |  |    |      | 0    |
| ALL<br>HOURS | .3 | 6.5 |  |  |  | 6.5 | 9.0  | 13.2 |  | .2 | 28.9 | 880  |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY

| HOURS<br>(LST) | TSTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|----------------|-------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| 00-02          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 03-05          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 06-08          | .1    | 3.1              |                 |                  |      | 3.1           | 25.5 | 14.0                  |                 | .5                   | 43.2                  | 736                    |
| 09-11          | .2    | 2.8              |                 |                  |      | 2.8           | 11.1 | 24.0                  |                 | 1.9                  | 39.8                  | 1194                   |
| 12-14          | .1    | 3.3              |                 |                  |      | 3.3           | 2.6  | 11.7                  |                 | .7                   | 18.3                  | 1121                   |
| 15-17          | .4    | 3.6              |                 |                  | .1   | 3.7           | 1.1  | 5.2                   |                 |                      | 10.0                  | 1133                   |
| 18-20          | .9    | 3.7              |                 |                  | .1   | 3.9           | .4   | 5.8                   |                 | .3                   | 10.3                  | 778                    |
| 21-23          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| ALL<br>HOURS   | .3    | 3.3              |                 |                  | .0   | 3.3           | 7.3  | 12.6                  |                 | .7                   | 24.0                  | 4962                   |

MONTH: JUN

|              |    |     |  |  |  |     |      |      |  |    |      |      |
|--------------|----|-----|--|--|--|-----|------|------|--|----|------|------|
| 00-02        |    |     |  |  |  |     |      |      |  |    |      | 0    |
| 03-05        |    |     |  |  |  |     |      |      |  |    |      | 0    |
| 06-08        |    | 1.0 |  |  |  | 1.0 | 22.1 | 18.3 |  | .9 | 42.4 | 687  |
| 09-11        |    | .9  |  |  |  | .9  | 11.7 | 27.2 |  | .7 | 40.5 | 1110 |
| 12-14        | .2 | 1.6 |  |  |  | 1.6 | 3.5  | 21.6 |  | .7 | 27.4 | 1027 |
| 15-17        | .7 | 1.6 |  |  |  | 1.6 | 2.0  | 12.1 |  | .7 | 16.5 | 990  |
| 18-20        | .6 | .9  |  |  |  | .9  | 1.5  | 15.1 |  | .6 | 18.0 | 684  |
| 21-23        |    |     |  |  |  |     |      |      |  |    |      | 0    |
| ALL<br>HOURS | .3 | 1.2 |  |  |  | 1.2 | 7.7  | 19.4 |  | .7 | 29.1 | 4498 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL

| HOURS<br>(LST) | TSMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAUL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBS1<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|----------------|------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| 00-02          |      |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 03-05          |      |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 06-08          | .1   | .4               |                 |                  |      | .4            | 19.3 | 28.5                  |                 | .1                   | 48.4                  | 734                    |
| 09-11          |      | .7               |                 |                  |      | .7            | 5.7  | 43.1                  |                 | .8                   | 50.2                  | 1180                   |
| 12-14          | .2   | .2               |                 |                  |      | .2            | 2.4  | 35.0                  |                 | .7                   | 38.3                  | 1076                   |
| 15-17          | .2   | .2               |                 |                  |      | .2            | .4   | 19.8                  |                 | .4                   | 20.7                  | 1096                   |
| 18-20          | .1   |                  |                 |                  |      |               | .3   | 17.5                  |                 |                      | 17.8                  | 765                    |
| 21-23          |      |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| ALL<br>HOURS   | .1   | .3               |                 |                  |      | .3            | 5.0  | 29.8                  |                 | .4                   | 35.5                  | 4851                   |

MONTH: AUG

|              |    |    |  |  |  |    |      |      |  |     |      |      |
|--------------|----|----|--|--|--|----|------|------|--|-----|------|------|
| 00-02        |    |    |  |  |  |    |      |      |  |     |      | 0    |
| 03-05        |    |    |  |  |  |    |      |      |  |     |      | 0    |
| 06-08        |    | .5 |  |  |  | .5 | 15.6 | 27.4 |  | 1.0 | 44.5 | 778  |
| 09-11        |    | .4 |  |  |  | .4 | 7.9  | 38.5 |  | 2.2 | 49.0 | 1195 |
| 12-14        | .1 | .6 |  |  |  | .6 | 2.2  | 29.2 |  | 1.4 | 33.5 | 1133 |
| 15-17        |    | .3 |  |  |  | .3 | .6   | 13.6 |  | .2  | 14.7 | 1163 |
| 18-20        |    |    |  |  |  |    | .4   | 12.1 |  | .1  | 12.6 | 818  |
| 21-23        |    |    |  |  |  |    |      |      |  |     |      | 0    |
| ALL<br>HOURS | .0 | .4 |  |  |  | .4 | 4.9  | 24.8 |  | 1.0 | 31.2 | 5087 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON-AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP

| HOURS<br>(LST) | TSTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|----------------|-------|------------------|-----------------|------------------|------|---------------|-----|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| 00-02          |       |                  |                 |                  |      |               |     |                       |                 |                      |                       | 0                      |
| 03-05          |       |                  |                 |                  |      |               |     |                       |                 |                      |                       | 0                      |
| 06-08          |       | 1.2              |                 |                  |      | 1.2           | 16. | 27.2                  |                 | .6                   | 45.1                  | 657                    |
| 09-11          | .2    | .9               |                 |                  |      | .9            | 7.0 | 46.7                  |                 | 1.1                  | 55.8                  | 1081                   |
| 12-14          | .4    | 1.1              |                 |                  |      | 1.1           | .9  | 32.0                  |                 | .9                   | 34.9                  | 1004                   |
| 15-17          | .7    | 1.4              |                 |                  |      | 1.4           | .5  | 11.0                  |                 | .2                   | 13.0                  | 1058                   |
| 18-20          | .1    | .5               |                 |                  |      | .5            |     | 9.9                   |                 | .1                   | 10.6                  | 736                    |
| 21-23          |       |                  |                 |                  |      |               |     |                       |                 |                      |                       | 0                      |
| ALL<br>HOURS   | .3    | 1.1              |                 |                  |      | 1.1           | 4.3 | 26.3                  |                 | .6                   | 32.3                  | 4536                   |

MONTH: OCT

|              |    |     |  |  |  |     |      |      |  |     |      |      |
|--------------|----|-----|--|--|--|-----|------|------|--|-----|------|------|
| 00-02        |    |     |  |  |  |     |      |      |  |     |      | 0    |
| 03-05        |    |     |  |  |  |     |      |      |  |     |      | 0    |
| 06-08        | .2 | 1.9 |  |  |  | 1.9 | 19.6 | 11.5 |  | .2  | 33.1 | 592  |
| 09-11        |    | 3.6 |  |  |  | 3.6 | 16.9 | 26.5 |  | 1.2 | 48.2 | 1139 |
| 12-14        | .3 | 3.6 |  |  |  | 3.6 | 3.1  | 18.0 |  | .4  | 25.1 | 1137 |
| 15-17        | .5 | 4.9 |  |  |  | 4.9 | .6   | 8.1  |  |     | 13.6 | 1043 |
| 18-20        | .4 | 3.7 |  |  |  | 3.7 | 1.0  | 7.9  |  | .3  | 12.8 | 736  |
| 21-23        |    |     |  |  |  |     |      |      |  |     |      | 0    |
| ALL<br>HOURS | .3 | 3.7 |  |  |  | 3.7 | 7.7  | 15.5 |  | .5  | 27.2 | 4647 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV

| HOURS<br>(LST) | TSTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|----------------|-------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| 00-02          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 03-05          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| 06-08          |       | 6.0              |                 |                  |      | 6.0           | 26.6 | 8.7                   |                 |                      | 41.2                  | 553                    |
| 09-11          | .2    | 4.7              |                 |                  |      | 4.7           | 27.3 | 22.4                  |                 | .1                   | 54.4                  | 1118                   |
| 12-14          | .1    | 5.6              |                 |                  |      | 5.6           | 7.7  | 22.5                  |                 | .1                   | 35.9                  | 1103                   |
| 15-17          | .2    | 7.9              |                 |                  |      | 7.9           | 1.1  | 8.3                   |                 |                      | 17.3                  | 1053                   |
| 18-20          | .3    | 9.1              |                 |                  |      | 9.1           | 1.9  | 6.0                   |                 |                      | 17.0                  | 629                    |
| 21-23          |       |                  |                 |                  |      |               |      |                       |                 |                      |                       | 0                      |
| ALL<br>HOURS   | .2    | 6.4              |                 |                  |      | 6.4           | 12.6 | 15.1                  |                 | .0                   | 34.1                  | 4456                   |

MONTH: DEC

|              |    |     |  |  |    |     |      |      |  |    |      |      |
|--------------|----|-----|--|--|----|-----|------|------|--|----|------|------|
| 00-02        |    |     |  |  |    |     |      |      |  |    |      | 0    |
| 03-05        |    |     |  |  |    |     |      |      |  |    |      | 0    |
| 06-08        |    | 7.0 |  |  |    | 7.0 | 28.1 | 6.2  |  |    | 41.3 | 470  |
| 09-11        |    | 6.9 |  |  |    | 6.9 | 31.1 | 14.1 |  | .3 | 52.4 | 1090 |
| 12-14        | .1 | 7.0 |  |  | .1 | 7.0 | 13.1 | 20.7 |  | .4 | 41.2 | 1135 |
| 15-17        |    | 7.1 |  |  |    | 7.1 | 2.2  | 10.1 |  | .4 | 19.8 | 1024 |
| 18-20        | .5 | 6.9 |  |  |    | 6.9 | 3.8  | 6.9  |  |    | 17.6 | 551  |
| 21-23        |    |     |  |  |    |     |      |      |  |    |      | 0    |
| ALL<br>HOURS | .1 | 7.0 |  |  | .0 | 7.0 | 15.6 | 13.1 |  | .3 | 35.9 | 4270 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF VARIOUS ATMOSPHERIC PHENOMENA  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
HOURS: ALL

| MONTH  | ISTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|--------|-------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| JAN    | .1    | 6.7              |                 |                  |      | 6.7           | 15.9 | 13.8                  |                 | .8                   | 37.1                  | 4502                   |
| FEB    | .1    | 8.4              |                 |                  |      | 8.4           | 17.7 | 12.9                  |                 | .5                   | 39.6                  | 4283                   |
| MAR    | .2    | 4.0              |                 |                  |      | 4.0           | 10.4 | 12.4                  |                 | .6                   | 27.5                  | 4618                   |
| APR    | .3    | 6.5              |                 |                  |      | 6.5           | 9.0  | 13.2                  |                 | .2                   | 28.9                  | 4880                   |
| MAY    | .3    | 3.3              |                 |                  | .0   | 3.3           | 7.3  | 12.6                  |                 | .7                   | 24.0                  | 4962                   |
| JUN    | .3    | 1.2              |                 |                  |      | 1.2           | 7.7  | 19.4                  |                 | .7                   | 29.1                  | 4498                   |
| JUL    | .1    | .3               |                 |                  |      | .3            | 5.0  | 29.8                  |                 | .4                   | 35.5                  | 4851                   |
| AUG    | .0    | .4               |                 |                  |      | .4            | 4.9  | 24.8                  |                 | 1.0                  | 31.2                  | 5087                   |
| SEP    | .3    | 1.1              |                 |                  |      | 1.1           | 4.3  | 26.3                  |                 | .6                   | 32.3                  | 4536                   |
| OCT    | .3    | 3.7              |                 |                  |      | 3.7           | 7.7  | 15.5                  |                 | .5                   | 27.2                  | 4647                   |
| NOV    | .2    | 6.4              |                 |                  |      | 6.4           | 12.6 | 15.1                  |                 | .0                   | 34.1                  | 4456                   |
| DEC    | .1    | 7.0              |                 |                  | .0   | 7.0           | 15.6 | 13.1                  |                 | .3                   | 35.9                  | 4270                   |
| ANNUAL | .2    | 4.0              |                 |                  | .0   | 4.0           | 9.7  | 17.5                  |                 | .5                   | 31.7                  | 55590                  |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| MONTH  | TSTMS | LIQUID<br>PRECIP | FREEZ<br>PRECIP | FROZEN<br>PRECIP | HAIL | ALL<br>PRECIP | FOG  | SMOKE<br>&/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>&/OR<br>SAND | ALL<br>OBST<br>TO VSN | TOTAL<br>NO. OF<br>OBS |
|--------|-------|------------------|-----------------|------------------|------|---------------|------|-----------------------|-----------------|----------------------|-----------------------|------------------------|
| JAN    | 3.4   | 38.9             |                 |                  | .2   | 38.9          | 29.7 | 17.1                  |                 |                      | 57.0                  | 414                    |
| FEB    | 4.8   | 39.4             |                 |                  | 1.1  | 39.4          | 19.8 | 11.4                  |                 |                      | 51.3                  | 378                    |
| MAR    | 4.5   | 38.5             |                 |                  | .2   | 38.5          | 15.2 | 15.4                  |                 |                      | 47.2                  | 441                    |
| APR    | 6.6   | 30.7             |                 |                  | .5   | 30.7          | 10.1 | 12.5                  |                 |                      | 39.9                  | 424                    |
| MAY    | 6.6   | 23.3             |                 |                  | .2   | 23.3          | 5.8  | 12.1                  |                 |                      | 33.0                  | 412                    |
| JUN    | 5.4   | 14.6             |                 |                  |      | 14.6          | 4.5  | 10.4                  |                 |                      | 23.3                  | 404                    |
| JUL    | 1.0   | 3.6              |                 |                  |      | 3.6           | 2.2  | 10.8                  |                 |                      | 13.2                  | 417                    |
| AUG    | .7    | 4.6              |                 |                  |      | 4.6           | 1.9  | 4.1                   |                 |                      | 9.4                   | 415                    |
| SEP    | 5.5   | 18.9             |                 |                  | .2   | 18.9          | 4.0  | 7.7                   |                 |                      | 24.1                  | 402                    |
| OCT    | 5.6   | 29.3             |                 |                  | .2   | 29.3          | 9.7  | 6.3                   |                 |                      | 34.6                  | 413                    |
| NOV    | 4.1   | 38.7             |                 |                  | .3   | 38.7          | 20.5 | 10.6                  |                 |                      | 51.1                  | 395                    |
| DEC    | 5.3   | 37.4             |                 | .2               | .7   | 37.7          | 28.5 | 17.1                  |                 |                      | 52.2                  | 414                    |
| ANNUAL | 4.4   | 26.5             |                 | .0               | .3   | 26.5          | 12.6 | 11.3                  |                 |                      | 36.3                  | 4929                   |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF THUNDERSTORMS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89

| HOURS<br>(LST) | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 00-02          |      |      |      |      |      |      |      |      |      |      |      |      |
| 03-05          |      |      |      |      |      |      |      |      |      |      |      |      |
| 06-08          |      |      |      |      | .1   |      | .1   |      |      | .2   |      |      |
| 09-11          |      | .1   |      | .2   | .2   |      |      |      | .2   |      | .2   |      |
| 12-14          | .1   |      |      | .5   | .1   | .2   | .2   | .1   | .4   | .3   | .1   | .1   |
| 15-17          | .2   | .5   | .4   | .5   | .4   | .7   | .2   |      | .7   | .5   | .2   |      |
| 18-20          |      |      | .4   | .1   | .9   | .6   | .1   |      | .1   | .4   | .3   | .5   |
| 21-23          |      |      |      |      |      |      |      |      |      |      |      |      |
| ALL<br>HOURS   | .1   | .1   | .2   | .3   | .3   | .3   | .1   | .0   | .3   | .3   | .2   | .1   |
| TOTAL<br>OBS   | 4502 | 4283 | 4618 | 4880 | 4962 | 4498 | 4851 | 5087 | 4536 | 4647 | 4456 | 4270 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 351 - 040 | 041 - 100 | 101 - 180 | 181 - 260 | 261 - 350 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        |      |          |           |           |           | 100.0     |           | 6         |
| LIQUID<br>PRECIP             | 5.1  |          | 6.7       | 4.0       | 29.6      | 49.5      | 5.1       | 372       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 39.1 |          | 17.9      | 13.9      | 7.0       | 19.0      | 3.1       | 981       |
| FOG WITH VIS<br>GE 1/2 MILES | 36.9 |          | 17.7      | 14.9      | 7.0       | 20.4      | 3.1       | 868       |
| TOTAL OBS                    | 754  | 0        | 502       | 334       | 258       | 576       | 161       | 2585      |

MONTH: FEB HOURS: ALL

|                              |      |   |      |     |      |      |     |      |
|------------------------------|------|---|------|-----|------|------|-----|------|
| TSTMS                        | 12.5 |   |      |     |      | 87.5 |     | 8    |
| LIQUID<br>PRECIP             | 12.7 |   | 6.5  | 7.1 | 12.2 | 57.2 | 4.2 | 449  |
| FREEZING<br>PRECIP           |      |   |      |     |      |      |     |      |
| FROZEN<br>PRECIP             |      |   |      |     |      |      |     |      |
| FOG                          | 41.2 |   | 12.9 | 9.1 | 8.6  | 25.8 | 2.4 | 963  |
| FOG WITH VIS<br>GE 1/2 MILES | 39.0 |   | 13.3 | 9.8 | 9.0  | 26.5 | 2.4 | 878  |
| TOTAL OBS                    | 745  | 0 | 322  | 306 | 195  | 791  | 189 | 2548 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 351 - 040 | 041 - 100 | 101 - 180 | 181 - 260 | 261 - 350 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        |      |          |           |           | 37.5      | 12.5      | 50.0      | 8         |
| LIQUID<br>PRECIP             | 8.1  |          | 10.4      | 3.2       | 20.4      | 49.3      | 8.6       | 221       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 46.7 |          | 7.8       | 9.9       | 11.0      | 22.0      | 2.7       | 619       |
| FOG WITH VIS<br>GE 1/2 MILES | 46.3 |          | 7.6       | 10.2      | 11.2      | 21.9      | 2.8       | 579       |
| TOTAL OBS                    | 671  | 1        | 273       | 268       | 171       | 654       | 324       | 2362      |

MONTH: APR HOURS: ALL

|                              |      |   |     |     |      |      |      |      |
|------------------------------|------|---|-----|-----|------|------|------|------|
| TSTMS                        | 23.5 |   |     |     | 17.6 | 35.3 | 23.5 | 17   |
| LIQUID<br>PRECIP             | 19.5 |   | 2.1 | 5.3 | 20.4 | 44.3 | 8.4  | 431  |
| FREEZING<br>PRECIP           |      |   |     |     |      |      |      |      |
| FROZEN<br>PRECIP             |      |   |     |     |      |      |      |      |
| FOG                          | 29.5 |   | 6.6 | 6.1 | 14.1 | 38.8 | 4.8  | 559  |
| FOG WITH VIS<br>GE 1/2 MILES | 28.7 |   | 7.0 | 6.5 | 14.3 | 38.4 | 5.1  | 526  |
| TOTAL OBS                    | 656  | 0 | 205 | 231 | 284  | 980  | 299  | 2655 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 351 - 040 | 041 - 100 | 101 - 180 | 181 - 260 | 261 - 350 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        |      |          | 9.5       |           | 9.5       | 52.4      | 28.6      | 21        |
| LIQUID<br>PRECIP             | 5.9  |          | 5.0       | 5.9       | 14.9      | 60.4      | 7.9       | 202       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 33.4 |          | 4.8       | 5.3       | 15.8      | 38.7      | 2.1       | 476       |
| FOG WITH VIS<br>GE 1/2 MILES | 33.1 |          | 4.9       | 5.1       | 15.6      | 39.3      | 1.9       | 468       |
| TOTAL OBS                    | 540  | 0        | 157       | 164       | 204       | 1105      | 300       | 2470      |

MONTH: JUN HOURS: ALL

|                              |      |   |     |     |      |      |      |      |
|------------------------------|------|---|-----|-----|------|------|------|------|
| TSTMS                        |      |   |     | 5.9 | 29.4 | 41.2 | 23.5 | 17   |
| LIQUID<br>PRECIP             | 18.5 |   | 1.5 | 1.5 | 6.2  | 66.2 | 6.2  | 65   |
| FREEZING<br>PRECIP           |      |   |     |     |      |      |      |      |
| FROZEN<br>PRECIP             |      |   |     |     |      |      |      |      |
| FOG                          | 29.5 |   | 4.2 | 4.2 | 15.5 | 41.4 | 5.3  | 457  |
| FOG WITH VIS<br>GE 1/2 MILES | 28.8 |   | 4.2 | 4.2 | 15.7 | 41.7 | 5.3  | 451  |
| TOTAL OBS                    | 527  | 3 | 139 | 166 | 166  | 982  | 333  | 2316 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 351 - 040 | 041 - 100 | 101 - 180 | 181 - 260 | 261 - 350 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        |      |          |           |           | 25.0      | 37.5      | 37.5      | 8         |
| LIQUID<br>PRECIP             | 8.3  |          |           |           | 8.3       | 75.0      | 8.3       | 12        |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 33.9 |          | 2.5       | 7.5       | 15.8      | 36.3      | 4.0       | 322       |
| FOG WITH VIS<br>GE 1/2 MILES | 33.0 |          | 1.9       | 7.7       | 16.3      | 36.9      | 4.2       | 312       |
| TOTAL OBS                    | 708  | 4        | 182       | 168       | 167       | 1002      | 505       | 2736      |

MONTH: AUG HOURS: ALL

|                              |      |    |      |     |      |       |     |      |
|------------------------------|------|----|------|-----|------|-------|-----|------|
| TSTMS                        |      |    |      |     |      | 100.0 |     | 2    |
| LIQUID<br>PRECIP             | 8.3  |    |      | 8.3 | 12.5 | 70.8  |     | 24   |
| FREEZING<br>PRECIP           |      |    |      |     |      |       |     |      |
| FROZEN<br>PRECIP             |      |    |      |     |      |       |     |      |
| FOG                          | 30.3 | .3 | 11.4 | 7.9 | 13.1 | 30.3  | 6.7 | 343  |
| FOG WITH VIS<br>GE 1/2 MILES | 30.1 | .3 | 11.5 | 8.0 | 13.3 | 30.1  | 6.8 | 339  |
| TOTAL OBS                    | 706  | 11 | 249  | 190 | 169  | 1012  | 410 | 2747 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 351 - 040 | 041 - 100 | 101 - 180 | 181 - 260 | 261 - 350 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 5.6  |          | 5.6       | 5.6       | 16.7      | 44.4      | 22.2      | 18        |
| LIQUID<br>PRECIP             | 21.7 |          | 6.5       | 2.2       | 6.5       | 41.3      | 21.7      | 46        |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 33.5 |          | 8.1       | 15.4      | 11.5      | 28.8      | 2.7       | 260       |
| FOG WITH VIS<br>GE 1/2 MILES | 33.2 |          | 8.2       | 15.6      | 11.7      | 28.9      | 2.3       | 256       |
| TOTAL OBS                    | 780  | 7        | 228       | 247       | 208       | 745       | 361       | 2576      |

MONTH: OCT HOURS: ALL

|                              |      |    |      |      |      |      |      |      |
|------------------------------|------|----|------|------|------|------|------|------|
| TSTMS                        | 7.7  |    | 7.7  |      | 7.7  | 61.5 | 15.4 | 13   |
| LIQUID<br>PRECIP             | 11.1 |    | 3.5  | 6.5  | 24.1 | 46.2 | 8.5  | 199  |
| FREEZING<br>PRECIP           |      |    |      |      |      |      |      |      |
| FROZEN<br>PRECIP             |      |    |      |      |      |      |      |      |
| FOG                          | 40.6 | .2 | 11.0 | 10.1 | 9.4  | 23.7 | 5.0  | 456  |
| FOG WITH VIS<br>GE 1/2 MILES | 38.5 | .2 | 11.2 | 10.0 | 10.0 | 24.9 | 5.1  | 429  |
| TOTAL OBS                    | 710  | 1  | 289  | 271  | 250  | 591  | 334  | 2446 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: ALL

| PHENOMENA                    | CALM | VARIABLE | 351 - 040 | 041 - 100 | 101 - 180 | 181 - 260 | 261 - 350 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        |      |          |           | 11.1      | 22.2      | 66.7      |           | 9         |
| LIQUID<br>PRECIP             | 5.3  |          | 6.3       | 7.9       | 26.6      | 45.8      | 8.2       | 380       |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 39.1 |          | 14.4      | 12.2      | 6.8       | 22.8      | 4.6       | 736       |
| FOG WITH VIS<br>GE 1/2 MILES | 36.7 |          | 15.2      | 12.7      | 7.4       | 23.2      | 4.7       | 676       |
| TOTAL OBS                    | 713  | 0        | 365       | 350       | 257       | 584       | 195       | 2464      |

MONTH: DEC HOURS: ALL

|                              |      |    |      |      |      |      |     |      |
|------------------------------|------|----|------|------|------|------|-----|------|
| TSTMS                        |      |    |      | 20.0 | 60.0 | 20.0 |     | 5    |
| LIQUID<br>PRECIP             | 6.8  |    | 2.6  | 4.2  | 23.2 | 59.9 | 3.4 | 384  |
| FREEZING<br>PRECIP           |      |    |      |      |      |      |     |      |
| FROZEN<br>PRECIP             |      |    |      |      |      |      |     |      |
| FOG                          | 36.1 | .1 | 20.6 | 11.9 | 8.4  | 19.0 | 4.0 | 909  |
| FOG WITH VIS<br>GE 1/2 MILES | 35.2 | .1 | 21.6 | 12.2 | 8.5  | 18.9 | 3.3 | 809  |
| TOTAL OBS                    | 685  | 2  | 428  | 348  | 238  | 613  | 147 | 2461 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCES OF ATMOSPHERIC PHENOMENA  
VERSUS WIND DIRECTION FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTHS: ALL

| PHENOMENA                    | CALM | VARIABLE | 351 - 040 | 041 - 100 | 101 - 180 | 181 - 260 | 261 - 350 | NO OF OBS |
|------------------------------|------|----------|-----------|-----------|-----------|-----------|-----------|-----------|
| TSTMS                        | 5.3  |          | 3.0       | 3.0       | 18.2      | 50.0      | 20.5      | 132       |
| LIQUID<br>PRECIP             | 10.2 |          | 5.1       | 5.5       | 20.7      | 52.0      | 6.6       | 2785      |
| FREEZING<br>PRECIP           |      |          |           |           |           |           |           |           |
| FROZEN<br>PRECIP             |      |          |           |           |           |           |           |           |
| FOG                          | 37.1 | .0       | 11.8      | 9.9       | 10.5      | 26.9      | 3.8       | 7081      |
| FOG WITH VIS<br>GE 1/2 MILES | 35.7 | .0       | 11.9      | 10.2      | 10.8      | 27.6      | 3.7       | 6591      |
| TOTAL OBS                    | 8195 | 29       | 3339      | 3043      | 2567      | 9635      | 3558      | 30366     |

|          |           |          |            |            |
|----------|-----------|----------|------------|------------|
| PPPPPPPP | AAAAAA    | RRRRRRRR | TTTTTTTTTT | BBBBBBBBBB |
| PPPPPPPP | AAAAAAA   | RRRRRRRR | TTTTTTTTTT | BBBBBBBBBB |
| PP PP    | AA AA     | RR RR    | TT         | BB BB      |
| PP PP    | AA AA     | RR RR    | TT         | BB SS      |
| PPPPPPPP | AA AA     | RRRRRRRR | TT         | BBBBBBBBBB |
| PPPPPPPP | AAAAAAAAA | RRRRRRRR | TT         | BBBBBBBBBB |
| PP       | AAAAAAAAA | RR RR    | TT         | BB SS      |
| PP       | AA AA     | RR RR    | TT         | BB SS      |
| PP       | AA AA     | RR RR    | TT         | BBBBBBBBBB |
| PP       | AA AA     | RR RR    | TT         | BBBBBBBBBB |

## PART B

### PRECIPITATION, SNOWFALL, SNOW DEPTH SUMMARIES

ALL TABLES IN PART B ARE CREATED FROM SUMMARY OF DAY (SOD) DATA.

#### PERCENT OCCURRENCE FREQUENCY.

THESE TABLES GIVE THE PERCENT OCCURRENCE FREQUENCY OF PRECIPITATION, SNOWFALL AND SNOW DEPTH. DATA IS SUMMARIZED FOR ALL YEARS COMBINED. SUMMARIES INCLUDE THE PERCENT OF DAYS WITH MEASURABLE AMOUNTS, PERCENT OF DAYS WITH NO AMOUNTS, PERCENT OF DAYS WITH TRACES, AND PERCENT OF DAYS WITH SPECIFIED AMOUNTS. SUMMARIES ALSO PROVIDE AN OBSERVATION COUNT. A VALUE OF ".0" INDICATES ONE OR MORE OCCURRENCES THAT, IN AGGREGATE, AMOUNT TO LESS THAN .05 PERCENT.

#### MONTHLY TOTALS.

THESE TABLES GIVE THE TOTAL MONTHLY PRECIPITATION AND SNOW" LL RESPECTIVELY. THEY ARE SUMMARIZED BY MONTH FOR ALL YEARS. THE TABLES ALSO GIVE THE GREATEST AMOUNTS, LEAST AMOUNTS, MEAN, MEDIAN, STANDARD DEVIATIONS, AND TOTAL AVAILABLE OBSERVATIONS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS. INCOMPLETE MONTHS/YEARS ARE NOT INCLUDED IN STATISTICAL COMPUTATIONS. NOTE: LEAST AMOUNTS ARE DERIVED FROM COMPLETE MONTHS/YEARS ONLY. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH.

#### DAILY EXTREMES.

THESE TABLES GIVE THE MAXIMUM DAILY REPORTED AMOUNTS (BY INDIVIDUAL YEAR-MONTH) FOR PRECIPITATION, SNOWFALL, AND SNOW DEPTH, RESPECTIVELY. THEY SHOW THE GREATEST AMOUNTS FOR EACH MONTH AND THE TOTAL NUMBER OF AVAILABLE OBSERVATIONS FOR EACH MONTH AND YEAR. AN ASTERISK (\*) INDICATES A MONTH FOR WHICH LESS THAN 90% OF DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS. ".00" MEANS NO PRECIPITATION FOR THE MONTH, ".0" MEANS NO SNOWFALL FOR THE MONTH, AND "0" MEANS NO SNOW DEPTH FOR THE MONTH.

#### SNOWFALL/SNOW DEPTH--FIRST AND LAST DAYS OF OCCURRENCE BY SNOW YEAR.

THIS SUMMARY GIVES THE FIRST AND LAST OCCURRENCES OF SNOWFALL AND SNOW DEPTH FOR THE SNOW-YEAR DURING THE PERIOD OF RECORD. FOR THIS SUMMARY, THE SNOW-YEAR IS CONSIDERED TO RUN FROM 1 AUGUST TO 31 JULY. TABLES SUMMARIZE THE DATA BY SNOW-YEAR, BY MONTH, AND BY DAY. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OF AWS FORMS 10/10A (OR EQUIVALENT) AS EITHER A TRACE OR A MEASURABLE AMOUNT DEFINES THE FIRST (OR LAST) SNOWFALL FOR THE YEAR. THE FIRST (OR LAST) ENTRY IN COLUMN 69 OTHER THAN ".0" OR "TRACE" DEFINES THE FIRST (OR LAST) MEASURABLE SNOWFALL. FINALLY, THE 1200 GMT ENTRY COLUMN 70 OF AWS FORM 10/10A (OR EQUIVALENT) DEFINES THE FIRST (OR LAST) OCCURRENCE OF SNOW DEPTH. THE LAST SNOW DEPTH IS CONSIDERED THE LAST SNOW MELT. THIS SUMMARY IS NOT PROVIDED WHEN NO SNOWFALL OCCURS DURING THE GIVEN PER.

NOTE 1. IF THE MINIMUM AMOUNT RECORDED IN THE MONTHLY TOTALS OR DAILY EXTREMES IS A TRACE, THE WORD "TRACE" WILL APPEAR IN THE APPROPRIATE COLUMN.

NOTE 2. TABLES INCLUDE STATISTICAL DATA ONLY WHEN FIVE (5) OR MORE SETS OF COMPLETE MONTHS ARE AVAILABLE.

NOTE 3. THE OBSERVATION COUNTS OR THE STATION HISTORY MIGHT PROVIDE CLUES AS TO WHY CERTAIN DATA ARE MISSING. FOR EXAMPLE, ONLY A FEW MISSING OBSERVATIONS MIGHT IMPLY MISSING DATA BECAUSE OF EQUIPMENT MALFUNCTION, BUT MORE THAN SEVERAL MISSING OBSERVATIONS USUALLY MEANS THE STATION IS (OR HAS BEEN) CLOSED.

NOTE 4. IN DAILY AND MONTHLY AMOUNTS SUMMARIES, THE LAST ENTRY ON THE PAGE GIVES THE GREATEST AMOUNT FOR THE PERIOD OF RECORD.

NOTE 5. BEFORE JANUARY 1956, SNOWFALL OCCURRENCES IN THE SUMMARY OF DAY INCLUDED HAIL.

NOTE 6. SNOW DEPTH REPORTING TIMES FOR USAF, NAVY AND CIVIL STATIONS ARE AS FOLLOWS:

| AIR FORCE             |          | NAVY AND NATIONAL WEATHER SERVICE |          |
|-----------------------|----------|-----------------------------------|----------|
| THROUGH 1945:         | 0800 LST | THROUGH JUN 1952:                 | 0030 GMT |
| JAN 1946 TO MAY 1957: | 1230 LST | JUN 1952 TO MAY 1957:             | 1230 GMT |
| JUN 1957 TO PRESENT:  | 1200 GMT | JUN 1957 TO PRESENT:              | 1200 GMT |

NOTE 7. 24-HOUR PRECIPITATION (INCLUDING SNOWFALL AND SNOW DEPTH) VALUES DERIVED FROM PART TIME PERIODS MAY NOT REFLECT TRUE 24-HOUR AMOUNTS. RECORDED AMOUNTS FOLLOWING WEEKENDS AND/OR HOLIDAYS FREQUENTLY REPRESENT AMOUNTS MEASURED FOR PERIODS GREATER THAN 24 HOURS. IN ADDITION, 24-HOUR AMOUNTS MAY NOT REPRESENT THE STANDARD CLIMATOLOGICAL 24-HOUR "MIDNIGHT TO MIDNIGHT" AMOUNT. DATA FROM PART TIME PERIODS MAY NOT ACCURATELY REFLECT NIGHTTIME PRECIPITATION EVENTS.

CONVERSIONS:

- 1 INCH = 25.39998 MILLIMETERS
- 1 MILLIMETER = .03937 INCHES

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF PRECIPITATION IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| AMOUNTS<br>(INCHES)          | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANN  |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| NONE                         | 58.6 | 56.6 | 58.4 | 67.8 | 75.2 | 84.4 | 96.4 | 95.2 | 80.6 | 69.4 | 59.9 | 60.9 | 72.0 |
| TRACE                        | 7.0  | 9.0  | 9.0  | 8.9  | 5.3  | 6.7  | 2.2  | 2.7  | 10.2 | 7.0  | 7.4  | 8.9  | 7.0  |
| .01                          | 2.9  | 2.1  | 2.5  | 1.4  | 1.7  | 1.5  | .2   | .2   | .7   | 1.0  | 2.3  | 1.7  | 1.5  |
| .02-.05                      | 5.6  | 4.5  | 6.6  | 5.9  | 4.1  | 1.5  | 1.0  | .7   | 2.5  | 3.6  | 5.4  | 4.6  | 3.8  |
| .06-.10                      | 3.4  | 1.6  | 4.3  | 3.5  | 2.2  | 1.0  |      | .5   | 1.2  | 3.4  | 4.1  | 4.1  | 2.5  |
| .11-.25                      | 7.3  | 9.5  | 8.1  | 3.1  | 3.9  | 1.7  |      | .5   | 2.0  | 5.1  | 6.4  | 6.0  | 4.4  |
| .26-.50                      | 6.5  | 7.9  | 6.1  | 4.5  | 3.4  | 2.2  |      |      | 1.2  | 4.6  | 6.9  | 6.0  | 4.1  |
| .51-1.00                     | 5.8  | 6.9  | 3.6  | 3.5  | 3.2  | .7   | .2   |      | 1.0  | 3.6  | 4.6  | 6.0  | 3.2  |
| 1.01-2.50                    | 2.7  | 1.9  | 1.4  | 1.4  | 1.0  | .2   |      | .2   | .5   | 2.2  | 3.1  | 1.4  | 1.3  |
| 2.51-5.00                    | .2   |      |      |      |      |      |      |      |      |      |      |      | .0   |
| 5.01-10.00                   |      |      |      |      |      |      |      |      |      |      |      | .2   | .0   |
| 10.01-20.00                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
| OVER 20.00                   |      |      |      |      |      |      |      |      |      |      |      |      |      |
| DAYS WITH<br>MEAS AMTS       | 34.4 | 34.4 | 32.6 | 23.2 | 19.4 | 8.9  | 1.4  | 2.2  | 9.2  | 23.5 | 32.7 | 30.2 | 21.0 |
| TOTAL NO. OF<br>OBSERVATIONS | 413  | 378  | 442  | 426  | 412  | 403  | 415  | 414  | 403  | 412  | 392  | 414  | 4924 |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT  | NOV   | DEC   | ANNUAL |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|--------|
| 58   |       |       | 2.65  | 1.17  | .47   | .05   | .03   | .23   | TRACE | .91  | 1.66  | 9.64  | 16.81* |
| 59   | 1.69  | .58   | 2.37  | 1.00  | 4.73  | TRACE | TRACE | TRACE | .04   | 1.56 | 2.03  | 1.22  | 15.22  |
| 60   | 2.71  | 4.06  | 4.13  | 1.67  | 1.45  | .30   | TRACE | TRACE | .17   | 9.19 | 2.65  | 1.43  | 27.76  |
| 61   | .86   | .02   | 1.19  | 1.18  | 3.51  | .07   | .05   | .00   | .93   | 1.91 | 8.74  | 3.84  | 22.30  |
| 62   | 2.87  | 1.88  | 4.52  | 2.61  | 1.42  | 1.12  | .00   | TRACE | .11   | 5.69 | 2.18  | 8.03  | 30.43  |
| 63   | 7.02  | 4.88  | 1.76  | 3.40  | 1.65  | 1.37  | .00   | .00   | .75   | .96  | 6.46  | 8.79  | 37.04  |
| 64   | 1.11  | 5.86  | 4.43  | 1.11  | 1.31  | .13   | .62   | .00   | .31   | .17  | 1.66  | 2.23  | 18.94  |
| 65   | 1.75  | 3.41  | 2.79  | .33   | TRACE | .60   | .00   | .00   | 3.27  | 4.44 | 3.97  | 2.10  | 22.66  |
| 66   | 6.00  | 4.43  | .03   | 3.29  | .28   | .44   | TRACE | .05   | .38   | 4.39 | 2.56  | .37   | 22.22  |
| 67   | 2.26  | 2.44  | 1.05  | 1.19  | 1.37  | 1.04  | .03   | TRACE | .31   | 2.96 | 3.38  | .56   | 16.59  |
| 68   | TRACE | 6.00  | 1.78  | 2.08  | .78   | .49   | TRACE | .28   | .10   | .91  | 4.84  | 3.07  | 20.33  |
| 69   | 5.32  | 6.01  | 5.03  | 1.70  | 2.21  | 1.02  | TRACE | .04   | 1.96  | 3.56 | 4.57  | 1.98  | 33.40  |
| 70   | 10.23 | .40   | 1.70* | .85*  | .77*  | .36*  | .00*  | .00*  | .00*  | .63* | 1.14* | 1.74* | 17.82* |
| 71   | 4.57* | .80*  | 1.56* | 6.46* | 5.66* | .81*  | .00*  | 1.43* | .34*  | .01* | .63*  | 1.52* | 23.79* |
| 72   | 5.46* | 4.04* | 2.97* | .72*  |       |       |       |       |       |      |       |       | 13.19* |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR      | JAN   | FEB   | MAR   | APR  | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
|-----------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| LEAST     | TRACE | .02   | .03   | .33  | TRACE | TRACE | .00   | .00   | TRACE | .17   | 1.66  | .37   | 15.22  |
| GREATEST  | 10.23 | 6.01  | 5.03  | 6.46 | 5.66  | 1.37  | .62   | 1.43  | 3.27  | 9.19  | 8.74  | 9.64  | 37.04  |
| MEAN      | 3.48  | 3.33  | 2.64  | 1.73 | 1.60  | .55   | .06   | .05   | .69   | 3.05  | 3.72  | 3.60  | 24.26  |
| MEDIAN    | 2.49  | 3.74  | 2.51  | 1.43 | 1.40  | .47   | TRACE | TRACE | .31   | 2.44  | 3.02  | 2.17  | 22.30  |
| SD        | 3.031 | 2.233 | 1.588 | .949 | 1.357 | .477  | .177  | .098  | .980  | 2.594 | 2.155 | 3.305 | 7.015  |
| TOTAL OBS | 413   | 378   | 442   | 426  | 412   | 403   | 415   | 414   | 403   | 412   | 392   | 414   | 4924   |

THE GREATEST VALUE OF 10.23 OCCURRED ON 01/70

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR      | JAN   | FEB   | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT  | NOV  | DEC  | ANNUAL |
|-----------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|------|------|--------|
| 58        |       |       | 1.02 | 1.10  | .42   | .02   | .03   | .16   | TRACE | .30  | 1.22 | 1.46 | 1.46*  |
| 59        | .40   | .26   | .39  | .30   | 2.05  | TRACE | TRACE | TRACE | .04   | .84  | .69  | .50  | 2.05   |
| 60        | 1.15  | .86   | .89  | 1.32  | 1.00  | .27   | TRACE | TRACE | .17   | 2.10 | .94  | .32  | 2.10   |
| 61        | .20   | .02   | .59  | .59   | 1.61  | .05   | .02   | .00   | .51   | .93  | 1.6  | 1.33 | 1.64   |
| 62        | .97   | .91   | 1.27 | .85   | .73   | .62   | .00   | TRACE | .06   | 2.30 | .75  | 5.16 | 5.16   |
| 63        | .87   | 1.52  | .87  | 1.29  | .61   | 1.06  | .00   | .00   | .56   | .83  | 1.97 | 1.05 | 1.97   |
| 64        | .64   | 1.99  | 2.09 | .52   | 1.31  | .12   | .62   | .00   | .20   | .14  | .84  | .72  | 2.09   |
| 65        | .58   | 1.05  | 1.21 | .29   | TRACE | .60   | .00   | .00   | 1.15  | 1.41 | .94  | .81  | 1.41   |
| 66        | 2.64  | 1.28  | .03  | .91   | .28   | .33   | TRACE | .05   | .21   | 1.64 | 1.86 | .17  | 2.64   |
| 67        | .87   | .71   | .67  | .48   | .48   | .49   | .03   | TRACE | .31   | 1.32 | .78  | .45  | 1.32   |
| 68        | TRACE | .97   | .46  | 1.32  | .38   | .30   | TRACE | .16   | .07   | .79  | 1.68 | 1.18 | 1.68   |
| 69        | 1.22  | 1.03  | 1.25 | .64   | .64   | .71   | TRACE | .04   | .92   | 1.67 | 1.50 | .76  | 1.67   |
| 70        | 1.75  | .21   | .62* | .44*  | .23*  | .31*  | .00*  | .00*  | .00*  | .52* | .48* | .97* | 1.75*  |
| 71        | 1.43* | .78*  | .71* | 1.12* | 2.23* | .47*  | .00*  | 1.42* | .33*  | .01* | .30* | .68* | 2.23*  |
| 72        | 1.91* | 1.61* | .85* | .70*  |       |       |       |       |       |      |      |      | 1.91*  |
| GREATEST  | 2.64  | 1.99  | 2.09 | 1.32  | 2.23  | 1.06  | .62   | 1.42  | 1.15  | 2.30 | 1.97 | 5.16 | 5.16   |
| TOTAL OBS | 413   | 378   | 442  | 426   | 412   | 403   | 415   | 414   | 403   | 412  | 392  | 414  | 4924   |

THE GREATEST VALUE OF 5.16 OCCURRED ON 12/27/62

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOWFALL IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB- SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| AMOUNTS<br>(INCHES)          | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC  | ANN   |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| NONE                         | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 100.0 |
| TRACE                        |       |       |       |       |       |       |       |       |       |       |       | .2   | .0    |
| 0.1-0.4                      |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 0.5-1.4                      |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 1.5-2.4                      |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 2.5-3.4                      |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 3.5-4.4                      |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 4.5-6.4                      |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 6.5-10.4                     |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 10.5-15.4                    |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 15.5-25.4                    |       |       |       |       |       |       |       |       |       |       |       |      |       |
| 25.5-50.4                    |       |       |       |       |       |       |       |       |       |       |       |      |       |
| OVER 50.4                    |       |       |       |       |       |       |       |       |       |       |       |      |       |
| DAYS WITH<br>MEAS AMTS       |       |       |       |       |       |       |       |       |       |       |       |      |       |
| TOTAL NO. OF<br>OBSERVATIONS | 413   | 378   | 445   | 427   | 412   | 405   | 415   | 418   | 403   | 413   | 402   | 416  | 4947  |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC   | ANNUAL |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--------|
| 58   |     |     | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0*    |
| 59   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 60   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 61   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 62   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | TRACE | TRACE  |
| 63   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 64   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 65   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 66   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 67   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 68   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 69   | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 70   | .0  | .0  | .0  | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0*   | .0*    |
| 71   | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0*   | .0*    |
| 72   | .0* | .0* | .0* | .0* |     |     |     |     |     |     |     |       | .0*    |

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

THE GREATEST VALUE OF TRACE OCCURRED ON 12/62

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILL NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR      | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC   | ANNUAL |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--------|
| 58        |     |     | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0*    |
| 59        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 60        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 61        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 62        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | TRACE | TRACE  |
| 63        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 64        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 65        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 66        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 67        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 68        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 69        | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0    | .0     |
| 70        | .0  | .0  | .0  | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0*   | .0*    |
| 71        | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0* | .0*   | .0*    |
| 72        | .0* | .0* | .0* | .0* |     |     |     |     |     |     |     |       | .0*    |
| GREATEST  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | .0  | TRACE | TRACE  |
| TOTAL OBS | 413 | 378 | 445 | 427 | 412 | 405 | 415 | 418 | 403 | 413 | 402 | 416   | 4947   |

THE GREATEST VALUE OF TRACE OCCURRED ON 12/13/62

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SNOW DEPTH IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| AMOUNTS<br>(INCHES)          | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| NONE                         | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| TRACE                        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1                            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 2                            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 3                            |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 4-6                          |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 7-12                         |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 13-24                        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 25-36                        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 37-48                        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 49-60                        |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 61-120                       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| OVER 120                     |       |       |       |       |       |       |       |       |       |       |       |       |       |
| DAYS WITH<br>MEAS AMTS       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| TOTAL NO. OF<br>OBSERVATIONS | 413   | 378   | 445   | 427   | 412   | 405   | 415   | 418   | 403   | 413   | 402   | 416   | 4947  |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOW DEPTH AMOUNTS IN INCHES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR      | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 58        |     |     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0*     |
| 59        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 60        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 61        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 62        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 63        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 64        | 0   | 0   | 0   | 3   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 65        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 66        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 67        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 68        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 69        | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| 70        | 0   | 0   | 0   | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*     |
| 71        | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*  | 0*     |
| 72        | 0*  | 0*  | 0*  | 0*  |     |     |     |     |     |     |     |     | 0*     |
| GREATEST  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0      |
| TOTAL OBS | 413 | 378 | 445 | 427 | 412 | 405 | 415 | 418 | 403 | 413 | 402 | 416 | 4947   |

THE GREATEST VALUE OF 0 OCCURRED ON 03/03/58

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

|          |           |          |           |          |
|----------|-----------|----------|-----------|----------|
| PPPPPPP  | AAAAAA    | RRRRRRR  | TTTTTTTTT | CCCCC    |
| PPPPPPPP | AAAAAAA   | RRRRRRRR | TTTTTTTTT | CCCCCCCC |
| PP PP    | AA AA     | RR RR    | TT        | CC CC    |
| PP PP    | AA AA     | RR RR    | TT        | CC       |
| PPPPPPPP | AA AA     | RRRRRRRR | TT        | CC       |
| PPPPPPP  | AAAAAAAAA | RRRRRRR  | TT        | CC       |
| PP       | AAAAAAAAA | RR RR    | TT        | CC       |
| PP       | AA AA     | RR RR    | TT        | CC CC    |
| PP       | AA AA     | RR RR    | TT        | CCCCCCCC |
| PP       | AA AA     | RR RR    | TT        | CCCCC    |

## PART C

### SURFACE WIND SUMMARIES

#### PEAK WINDS.

THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA. SPEEDS ARE IN KNOTS. DIRECTIONS ARE TO 16 COMPASS POINTS FROM THE BEGINNING OF PERIOD OF RECORD THROUGH JUNE 1968, BUT IN JULY 1968, ALL STATIONS EXCEPT THOSE OF THE NATIONAL WEATHER SERVICE STARTED RECORDING DIRECTIONS IN TENS OF DEGREES. DATA IS SUMMARIZED BY MONTH FOR EACH YEAR FOR THE ENTIRE PERIOD OF RECORD AVAILABLE. GIVEN: THE GREATEST MONTHLY VALUE FOR ALL YEARS COMBINED, THE GREATEST YEARLY VALUE FOR ALL YEARS COMBINED, AND THE DATE OF THE ABSOLUTE PEAK WIND RECORDED FOR THE ENTIRE PERIOD OF RECORD. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

#### PEAK WINDS--PERCENT OCCURRENCE FREQUENCY.

ALSO FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED BY MONTH, FOR ALL YEARS COMBINED, FOR ELEVEN WIND SPEED GROUPS. THE 1-4 KNOT SPEED GROUP INCLUDES CALM WINDS. IF THE PEAK WIND IS REPORTED FOR A PARTICULAR DAY AS "CALM," THAT COUNT GOES INTO THE "1-4 KNOT" CATEGORY. TABLES INCLUDE MEANS, MEDIANS, AND TOTAL OBSERVATION COUNTS. THE VALUES IN THIS SUMMARY ACCOUNT FOR A PEAK WIND BEING RECORDED FOR EACH DAY OF EACH MONTH.

#### WIND DIRECTION VS WIND SPEED--PERCENT OCCURRENCE FREQUENCY.

THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS. THEY SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

THESE TABLES GIVE A BIVARIATE DISTRIBUTION OF THE PERCENT OCCURRENCE FREQUENCY (POF) FOR ELEVEN WIND SPEED GROUPS VERSUS TWELVE WIND DIRECTION SECTORS GIVEN IN 30 DEGREE INCREMENTS. "CALM" AND "VARIABLE" WINDS ARE GIVEN SEPARATELY. CARDINAL WIND DIRECTIONS (N,E,S,W) APPEAR FOR REFERENCE. TOTAL PERCENTAGES, MEANS, AND MEDIANS FOR EACH SECTOR, ALONG WITH TOTAL OBSERVATION COUNTS, ARE PRINTED BELOW EACH SUMMARY.

ALSO PROVIDED: A BIVARIATE DISTRIBUTION OF WIND DIRECTION VERSUS WIND SPEED FOR SPECIFIED CEILING/VISIBILITY CONDITIONS. THESE CONDITIONS ARE:

WHEN THE VISIBILITY IS GREATER THAN OR EQUAL TO 1/2 MILES (0800 METERS) THE CEILING MUST BE GREATER THAN OR EQUAL TO 200 FEET BUT LESS THAN 1500 FEET. IF THIS CONDITION IS NOT MET, THEN THE FOLLOWING CONDITION IS TESTED: WHEN THE CEILING IS GREATER THAN OR EQUAL TO 200 FEET, THE VISIBILITY MUST BE GREATER THAN OR EQUAL TO 1/2 (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS).

CONVERSION: 1 KNOT = .514791 METERS PER SECOND

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 6207-7204  
MONTH: ALL HOURS: ALL

| YEAR      | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | ANN    |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 62        |        |        |        |        |        |        | WSW*22 | WSW 25 | WSW 24 | W 34   | SSW 26 | SSW 48 | SSW*48 |
| 63        | SW 47  | WSW 40 | SSW 39 | W 36   | ENE 26 | SW 29  | S 28   | WSW 33 | SW 26  | SSW 34 | W 55   | SW 36  | W 55   |
| 64        | ESE 20 | SSW 33 | SW 34  | SSW 30 | SSW 32 | SW 27  | ESE 25 | W 28   | SE *27 | W 27   | SSW 32 | SSW 22 | SW *34 |
| 65        | W 34   | ESE 30 | SW 42  | WSW 26 | SW 26  | W 27   | W 27   | WSW 26 | SW 36  | SW 32  | S 36   | SSW 34 | SW 42  |
| 66        | WSW 33 | W 46   | E 24   | W 36   | S 28   | E 34   | WSW 24 | WSW 20 | E 24   | WSW 37 | SSW 40 | WSW 32 | W 46   |
| 67        | SSW 45 | W 48   | S 41   | WSW 32 | SSW 38 | NNE 34 | WSW 28 | WSW 28 | WSW 37 | ESE 29 | SW 40  | NNE 25 | W 48   |
| 68        | ESE 20 | S 39   | SW 33  | SW 30  | W 26   | WSW 25 | 24/ 26 | 26/ 33 | 22/ 25 | 20/ 34 | 26/ 47 | 23/ 40 | 26/ 47 |
| 69        | 26/ 55 | 21/ 38 | 25/ 34 | 20/ 23 | 20/ 34 | 25/ 26 | 09/ 30 | 25/ 28 | 28/ 28 | 24/ 29 | 19/ 28 | 25/ 30 | 26/ 55 |
| 70        | 20/ 39 | 20/ 22 | 25/ 26 | 03/*28 | 23/*31 | 24/*24 | 25/*21 | 25/*27 | 15/*28 | 06/*29 | 22/*31 | 26/*32 | 20/*39 |
| 71        | 23/*46 | 12/*27 | 23/*36 | 20/*30 | 23/*27 | 22/*28 | 09/*20 | 26/*17 | 10/*26 | 06/*21 | 32/*24 | 20/*34 | 23/*46 |
| 72        | 20/*31 | 21/*35 | 33/*25 | 26/*28 |        |        |        |        |        |        |        |        | 21/*35 |
| .....     |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GREATEST  | 26/ 55 | W 48   | SW 42  | W 36   | SSW 38 | E 34   | 09/ 30 | WSW 33 | WSW 37 | WSW 37 | W 55   | SSW 48 | W 55   |
| .....     |        |        |        |        |        |        |        |        |        |        |        |        |        |
| TOTAL OBS | 287    | 265    | 289    | 270    | 254    | 252    | 279    | 287    | 271    | 282    | 277    | 287    | 3300   |
| .....     |        |        |        |        |        |        |        |        |        |        |        |        |        |

THE PEAK WIND OF 55 FROM W OCCURRED ON 11/15/63

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH  
\$THE VALUE IS 100 OR GREATER WITH LESS THAN 90% OF DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY PEAK WINDS  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 6207-7204  
MONTH: ALL HOURS: ALL

| MONTH  | WIND SPEEDS IN KNOTS |      |       |       |       |       |       |       |       |       |       | MEAN<br>WIND | MEDIAN<br>WIND | TOTAL<br>OBS |
|--------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|----------------|--------------|
|        | CALM-4               | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |              |                |              |
| JAN    | .0                   | 22.0 | 29.3  | 18.1  | 10.1  | 9.1   | 7.0   | 2.8   | 1.0   | .7    | .0    | 16.8         | 14.0           | 287          |
| FEB    | .0                   | 11.7 | 28.7  | 23.8  | 10.2  | 11.7  | 6.8   | 5.3   | 1.9   | .0    | .0    | 18.6         | 16.0           | 265          |
| MAR    | .0                   | 5.9  | 30.1  | 29.1  | 19.4  | 8.0   | 6.2   | .7    | .7    | .0    | .0    | 18.0         | 17.0           | 289          |
| APR    | .0                   | 3.7  | 23.7  | 35.6  | 24.8  | 7.8   | 3.3   | 1.1   | .0    | .0    | .0    | 18.0         | 17.0           | 270          |
| MAY    | .0                   | 1.2  | 26.0  | 36.2  | 25.6  | 7.5   | 3.1   | .4    | .0    | .0    | .0    | 18.1         | 18.0           | 254          |
| JUN    | .0                   | 1.6  | 15.9  | 45.6  | 27.4  | 8.7   | .8    | .0    | .0    | .0    | .0    | 18.5         | 18.0           | 252          |
| JUL    | .0                   | 1.1  | 10.4  | 55.6  | 29.7  | 2.9   | .4    | .0    | .0    | .0    | .0    | 18.2         | 18.0           | 279          |
| AUG    | .0                   | 1.0  | 17.1  | 43.9  | 30.7  | 6.3   | 1.0   | .0    | .0    | .0    | .0    | 18.2         | 18.0           | 287          |
| SEP    | .0                   | 3.0  | 25.1  | 39.5  | 22.5  | 8.1   | 1.1   | .7    | .0    | .0    | .0    | 17.8         | 17.0           | 271          |
| OCT    | .0                   | 9.6  | 39.7  | 26.2  | 14.2  | 7.4   | 2.5   | .4    | .0    | .0    | .0    | 16.1         | 15.0           | 282          |
| NOV    | .4                   | 18.8 | 32.5  | 22.4  | 13.4  | 7.2   | 2.9   | 1.1   | 1.1   | .4    | .0    | 16.0         | 14.0           | 277          |
| DEC    | .0                   | 19.9 | 34.1  | 20.9  | 13.2  | 5.2   | 3.8   | 1.4   | 1.4   | .0    | .0    | 15.7         | 14.0           | 287          |
| ANNUAL | .0                   | 8.4  | 26.2  | 32.9  | 20.0  | 7.5   | 3.3   | 1.2   | .5    | .1    | .0    | 17.5         | 17.0           | 3300         |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      |                      | 1.2  | 1.0   |       |       |       |       |       |       |       |       | 2.2        | 8.4          | 8.0            |
| 020-040                          | 2.2                  | 4.3  | 5.5   | 1.0   | .2    |       |       |       |       |       |       | 13.2       | 9.2          | 10.0           |
| 050-070                          | 1.4                  | 4.0  | 7.5   | .6    |       | .2    |       |       |       |       |       | 13.8       | 9.7          | 10.0           |
| (E) 080-100                      | .8                   | 2.2  | 1.2   | .2    |       |       |       |       |       |       |       | 4.5        | 7.5          | 8.0            |
| 110-130                          | 1.2                  | 2.8  | .8    |       | .2    |       |       |       |       |       |       | 5.1        | 7.6          | 7.0            |
| 140-160                          | .6                   | 1.2  | .6    |       | .4    | .2    |       |       |       |       |       | 3.0        | 10.1         | 8.0            |
| (S) 170-190                      | 1.4                  | 2.2  | 5.1   | 3.4   | .4    |       | .6    |       |       |       |       | 13.2       | 12.4         | 12.0           |
| 200-220                          | .2                   | 1.2  | 3.6   | .8    | .6    |       |       |       |       |       |       | 6.5        | 11.9         | 11.0           |
| 230-250                          | .4                   | 1.0  | 1.8   | 1.6   | .2    |       | .4    |       |       |       |       | 5.5        | 13.7         | 14.0           |
| (W) 260-280                      |                      | .4   | .2    | .4    | .2    |       |       |       |       |       |       | 1.2        | 13.7         | 14.0           |
| 290-310                          |                      |      | .2    |       |       |       |       |       |       |       |       | .2         | 12.0         | 12.0           |
| 320-340                          | .2                   |      |       |       |       |       |       |       |       |       |       | .2         | 4.0          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 31.6       | ////////     |                |
| TOTALS                           | 8.4                  | 20.5 | 27.5  | 8.0   | 2.2   | .4    | 1.0   |       |       |       |       | 100.0      | 7.1          | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 494 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB, SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 09-11

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                       | 1.6                  | 1.6  | .7    |       |       |       |       |       |       |       |       | 3.9        | 6.2          | 6.0            |
| 020-040                           | 1.6                  | 3.3  | 5.1   | 1.0   | .3    |       |       |       |       |       |       | 11.3       | 9.7          | 10.0           |
| 050-070                           | 2.3                  | 4.4  | 5.4   | .6    | .3    | .1    |       |       |       |       |       | 13.0       | 9.0          | 8.0            |
| (E) 080-100                       | 1.3                  | 1.8  | 1.2   | .3    | .1    |       |       |       |       |       |       | 4.7        | 7.9          | 7.0            |
| 110-130                           | .8                   | .6   | .5    | .3    |       | .1    |       |       |       |       |       | 2.3        | 8.3          | 8.0            |
| 140-160                           | .3                   | .7   | .7    | .1    | .1    | .1    |       |       |       |       |       | 1.9        | 10.5         | 9.0            |
| (S) 170-190                       | 1.5                  | 2.3  | 4.9   | 1.6   | 1.6   | .4    | .3    |       |       |       |       | 12.7       | 12.6         | 10.0           |
| 200-220                           | .4                   | 1.0  | 2.4   | .7    | .5    | .1    | .3    | .1    |       |       |       | 5.6        | 13.7         | 12.0           |
| 230-250                           | .4                   | .9   | 2.5   | 1.3   | .6    |       | .2    | .1    |       |       |       | 6.0        | 13.5         | 12.0           |
| (W) 260-280                       | .1                   | .3   | .7    | .5    |       |       |       |       |       |       |       | 1.6        | 11.9         | 12.0           |
| 290-310                           | .2                   |      | .1    | .1    |       | .1    |       |       |       |       |       | .4         | 11.8         | 10.0           |
| 320-340                           |                      | .3   | .1    |       |       |       |       |       |       |       |       | .3         | 7.5          | 7.0            |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 36.2       | //////////   |                |
| TOTALS                            | 10.5                 | 17.2 | 24.3  | 6.5   | 3.5   | .9    | .8    | .2    |       |       |       | 100.0      | 6.7          | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 1152 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

I

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.0                                  | 2.8  | 2.0   | .4    |       |       |       |       |       |       |       | 7.1        | 7.5          | 6.0            |
| 020-040                | 1.4                                  | 4.2  | 7.7   | 3.2   | .5    | .2    |       |       |       |       |       | 17.3       | 11.2         | 10.0           |
| 050-070                | .8                                   | 2.5  | 4.5   | 1.2   | .8    |       | .1    |       |       |       |       | 10.0       | 11.4         | 10.0           |
| (E) 080-100            | .8                                   | .7   | .4    | .3    | .1    |       |       |       |       |       |       | 2.3        | 7.9          | 7.0            |
| 110-130                | .3                                   | .4   | .5    | .2    | .1    |       |       |       |       |       |       | 1.4        | 10.3         | 10.0           |
| 140-160                | .2                                   | .4   | .3    | .1    | .1    |       |       |       |       |       |       | 1.0        | 10.0         | 8.0            |
| (S) 170-190            | 1.0                                  | .7   | 2.6   | 1.4   | 1.8   | .7    | .4    | .1    |       |       |       | 8.6        | 15.7         | 16.0           |
| 200-220                | .3                                   | 1.0  | 2.7   | 1.3   | .5    | .5    | .3    |       | .1    |       |       | 6.7        | 15.1         | 14.0           |
| 230-250                | .7                                   | 1.5  | 3.1   | 1.5   | 1.8   | .1    | .4    | .1    |       |       |       | 7.2        | 14.1         | 14.0           |
| (W) 260-280            | .8                                   | 1.0  | 2.0   | 1.2   | .3    | .1    |       |       |       |       |       | 5.3        | 11.4         | 12.0           |
| 290-310                | .6                                   | .6   | .8    | .2    |       |       |       |       |       |       |       | 2.2        | 8.2          | 8.0            |
| 320-340                | .9                                   | .4   | .1    |       | .1    |       |       |       |       |       |       | 1.4        | 6.3          | 4.0            |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 27.5       | ////////     |                |
| TOTALS                 | 9.8                                  | 16.2 | 26.7  | 11.0  | 6.1   | 1.6   | 1.2   | .2    | .1    |       |       | 100.0      | 8.6          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1124

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010            | 2.5                  | 2.9  | 2.5   | .4    | .3    |       |       |       |       |       |       | 8.7        | 8.1              | 6.5            |
| 020-040                | 2.0                  | 4.3  | 5.6   | 1.7   | .9    |       |       | .1    |       |       |       | 14.6       | 10.6             | 10.0           |
| 050-070                | .4                   | 1.6  | 3.1   | 2.3   |       | .2    | .1    |       |       |       |       | 7.6        | 12.2             | 12.0           |
| (E) 080-100            | .3                   | .7   | 1.1   | .4    | .1    |       |       |       |       |       |       | 2.5        | 11.1             | 12.0           |
| 110-130                |                      | .4   | .3    | .3    | .1    | .1    |       |       |       |       |       | 1.1        | 13.8             | 13.0           |
| 140-160                | .2                   | .1   | .2    | .2    |       |       |       |       |       |       |       | .7         | 9.6              | 12.0           |
| (S) 170-190            | .2                   | .5   | 1.7   | 1.1   | 1.5   | .3    | .4    |       | .1    |       |       | 5.7        | 16.8             | 16.0           |
| 200-220                | .2                   | 1.5  | 3.0   | 1.3   | 1.8   |       | .6    | .4    |       |       |       | 8.8        | 15.9             | 14.0           |
| 230-250                | 1.1                  | 1.7  | 4.0   | 2.7   | 2.1   | .5    | .2    | .1    | .1    |       |       | 12.4       | 14.5             | 14.0           |
| (W) 260-280            | .9                   | 1.7  | 3.5   | 1.2   | .6    | .2    |       |       |       |       |       | 8.1        | 11.5             | 12.0           |
| 290-310                | 1.6                  | 1.4  | 1.4   | .3    |       |       |       |       |       |       |       | 4.7        | 7.6              | 6.0            |
| 320-340                | 1.0                  | .7   | .4    | .1    | .1    |       |       |       |       |       |       | 2.3        | 6.9              | 6.0            |
| VARIABLE               | .3                   | .1   | .1    |       |       |       |       |       |       |       |       | .5         | 5.0              | 4.0            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 22.3       | //////////////// |                |
| TOTALS                 | 10.7                 | 17.6 | 26.9  | 12.0  | 7.5   | 1.3   | 1.3   | .6    | .2    |       |       | 100.0      | 9.3              | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 1062

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.3                                  | 2.0  | 1.8   | .2    |       | .2    |       |       |       |       |       | 5.4        | 8.0                              | 8.0            |
| 020-040                | 2.8                                  | 3.6  | 3.9   | 1.3   |       |       |       |       |       |       |       | 11.7       | 8.8                              | 8.0            |
| 050-070                | 1.5                                  | 1.6  | 3.1   | .3    |       |       |       |       |       |       |       | 6.6        | 8.9                              | 10.0           |
| (E) 080-100            | .3                                   | .8   | .8    | .7    |       |       |       |       |       |       |       | 2.6        | 10.8                             | 11.0           |
| 110-130                | .5                                   | .3   | .7    | .2    | .5    |       |       |       |       |       |       | 2.1        | 12.4                             | 12.0           |
| 140-160                | .2                                   | .3   | .3    | .5    |       |       |       |       |       |       |       | 1.3        | 11.1                             | 11.0           |
| (S) 170-190            | .2                                   | .2   | 2.1   | .8    | 1.1   | .3    | .3    |       |       |       |       | 5.1        | 16.4                             | 15.0           |
| 200-220                | .7                                   | 2.0  | 3.9   | 1.3   | 1.5   | .5    |       |       |       |       |       | 7.9        | 13.1                             | 12.0           |
| 230-250                | 1.8                                  | 2.0  | 4.1   | 3.1   | 1.8   | .2    |       |       |       |       |       | 13.0       | 12.6                             | 12.0           |
| (W) 260-280            | .7                                   | 2.1  | 3.0   | 1.1   | .7    |       | .2    |       |       |       |       | 7.7        | 11.4                             | 10.0           |
| 290-310                | .8                                   | 1.5  | .3    |       | .2    |       |       |       |       |       |       | 2.8        | 7.3                              | 6.0            |
| 320-340                | .8                                   | .7   | .8    |       |       |       |       |       |       |       |       | 2.3        | 6.9                              | 6.0            |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALH                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 29.6       | //////////////////////////////// |                |
| TOTALS                 | 11.6                                 | 17.1 | 24.8  | 9.5   | 5.8   | 1.2   | .5    |       |       |       |       | 100.0      | 7.7                              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 609

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.7                                  | 2.2  | 1.6   | .2    | .1    | .0    |       |       |       |       |       | 5.9        | 7.6                              | 6.0            |
| 020-040                | 1.9                                  | 3.9  | 5.8   | 1.8   | .5    | .0    |       | .0    |       |       |       | 13.8       | 10.3                             | 10.0           |
| 050-070                | 1.2                                  | 2.8  | 4.5   | 1.1   | .3    | .1    | .0    |       |       |       |       | 10.2       | 10.3                             | 10.0           |
| (E) 080-100            | .7                                   | 1.2  | .9    | .3    | .1    |       |       |       |       |       |       | 3.3        | 8.8                              | 8.0            |
| 110-130                | .5                                   | .7   | .5    | .2    | .1    | .0    |       |       |       |       |       | 2.1        | 9.7                              | 8.0            |
| 140-160                | .2                                   | .5   | .4    | .2    | .1    | .0    |       |       |       |       |       | 1.4        | 10.3                             | 8.0            |
| (S) 170-190            | .9                                   | 1.2  | 3.2   | 1.6   | 1.4   | .4    | .4    | .0    | .0    |       |       | 9.0        | 14.2                             | 13.0           |
| 200-220                | .3                                   | 1.3  | 3.0   | 1.1   | 1.0   | .2    | .3    | .1    | .0    |       |       | 7.3        | 14.4                             | 14.0           |
| 230-250                | .9                                   | 1.4  | 3.2   | 2.0   | 1.4   | .2    | .2    | .1    | .0    |       |       | 9.2        | 13.8                             | 14.0           |
| (W) 260-280            | .5                                   | 1.1  | 2.0   | .9    | .3    | .1    | .0    |       |       |       |       | 4.9        | 11.6                             | 12.0           |
| 290-310                | .7                                   | .7   | .6    | .1    | .0    | .0    |       |       |       |       |       | 2.2        | 8.0                              | 6.0            |
| 320-340                | .6                                   | .4   | .2    | .0    | .0    |       |       |       |       |       |       | 1.3        | 6.7                              | 6.0            |
| VARIABLE               | .1                                   | .0   | .0    |       |       |       |       |       |       |       |       | .1         | 5.0                              | 4.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 29.3       | //////////////////////////////// |                |
| TOTALS                 | 10.2                                 | 17.4 | 25.9  | 9.5   | 5.3   | 1.0   | .9    | .2    |       |       |       | 100.0      | 8.0                              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 4441

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 1.7                  | 2.2  | 1.7   |       |       |       |       |       |       |       |       | 5.5        | 6.9          | 6.0            |
| 020-040                | 2.2                  | 3.0  | 2.2   | .3    |       |       |       |       |       |       |       | 7.7        | 7.3          | 6.0            |
| 050-070                | 1.1                  | 3.9  | 1.4   | .3    |       |       |       |       |       |       |       | 6.6        | 7.5          | 8.0            |
| (E) 080-100            | .8                   | 1.1  | .3    |       |       |       |       |       |       |       |       | 2.2        | 5.8          | 7.0            |
| 110-130                |                      | .6   |       | .3    |       |       |       |       |       |       |       | .8         | 10.7         | 8.0            |
| 140-160                | .3                   | .3   | .6    | .3    |       | .6    |       |       |       |       |       | 1.9        | 15.1         | 14.0           |
| (S) 170-190            | 1.4                  | 1.1  | 3.0   | 4.7   | 4.1   | .8    | 1.4   | .3    |       |       |       | 16.9       | 17.3         | 18.0           |
| 200-220                | .8                   | 2.5  | 4.7   | 1.9   | 3.9   | .8    | 1.4   | .6    | .3    |       |       | 15.9       | 17.1         | 16.0           |
| 230-250                | .6                   | 1.1  | 2.5   | 3.3   | 1.7   | .6    | .8    | .3    |       |       |       | 16.8       | 17.2         | 16.0           |
| (W) 260-280            | .3                   | .6   | .6    | .3    | .3    | .3    |       |       |       |       |       | 2.2        | 13.0         | 12.0           |
| 290-310                |                      | .3   |       |       |       | .3    |       |       |       |       |       | .6         | 16.0         | 15.5           |
| 320-340                |                      | .6   |       |       | .3    |       |       |       |       |       |       | .8         | 12.0         | 8.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 27.1       | ////////     |                |
| TOTALS                 | 9.2                  | 17.3 | 17.0  | 11.4  | 10.3  | 3.4   | 3.6   | 1.2   | .3    |       |       | 100.0      | 10.1         | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 362

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | .4                                   | 1.3  | 1.0   |       |       | .2    |       |       |       |       |       | 2.9        | 8.9                              | 8.0            |
| 020-040                          | 1.7                                  | 3.5  | 2.7   |       | .2    |       |       |       |       |       |       | 8.1        | 8.1                              | 8.0            |
| 050-070                          | 2.9                                  | 3.8  | 3.3   | .8    | .8    |       |       |       |       |       |       | 11.7       | 9.2                              | 8.0            |
| (E) 080-100                      | 1.9                                  | 1.5  | 1.5   | .4    |       |       |       |       |       |       |       | 5.2        | 8.2                              | 8.0            |
| 110-130                          | 1.3                                  | 1.7  | .6    | .2    |       |       |       |       |       |       |       | 3.7        | 6.7                              | 6.0            |
| 140-160                          | .8                                   | 1.3  | .4    |       |       |       |       |       |       |       |       | 2.5        | 6.5                              | 6.0            |
| (S) 170-190                      | 2.5                                  | 2.9  | 5.0   | 2.5   | .4    |       |       | .2    |       |       |       | 13.5       | 10.6                             | 10.0           |
| 200-220                          | .6                                   | 2.3  | 5.4   | 1.5   | .2    | .6    |       |       |       |       |       | 10.6       | 11.5                             | 10.0           |
| 230-250                          | .2                                   | 1.7  | 2.5   | .8    | 1.0   | .4    | .8    |       |       |       |       | 7.5        | 15.4                             | 12.0           |
| (W) 260-280                      | .2                                   |      | .4    | .4    |       |       |       |       |       |       |       | 1.0        | 12.0                             | 12.0           |
| 290-310                          |                                      | .4   |       | .4    |       |       |       |       |       |       |       | .8         | 13.0                             | 13.0           |
| 320-340                          |                                      | .2   |       |       |       |       |       |       |       |       |       | .2         | 6.0                              | 6.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 32.1       | //////////////////////////////// |                |
| TOTALS                           | 12.5                                 | 20.6 | 22.8  | 7.0   | 2.6   | 1.2   | .8    | .2    |       |       |       | 100.0      | 6.9                              | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 480 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | .7                   | .8   | 1.0   |       |       |       |       |       |       |       |       | 2.4        | 7.8          | 6.0            |
| 020-040                | 1.7                  | 2.4  | 3.0   | .8    | .1    |       | .1    |       |       |       |       | 8.1        | 9.3          | 8.0            |
| 050-070                | 1.3                  | 3.5  | 4.9   | 1.4   | 1.2   |       |       |       |       |       |       | 12.3       | 10.9         | 10.0           |
| (E) 080-100            | .9                   | 1.8  | .8    | .3    | .1    |       |       |       |       |       |       | 3.8        | 7.9          | 6.0            |
| 110-130                | 1.1                  | .9   | .5    | .2    | .1    | .2    |       | .1    |       |       |       | 3.0        | 9.8          | 8.0            |
| 140-160                | 1.1                  | .9   | .3    |       |       |       |       |       |       |       |       | 2.2        | 5.9          | 6.0            |
| (S) 170-190            | .7                   | 3.1  | 3.6   | 1.1   | 1.0   | .1    |       | .1    |       |       |       | 9.5        | 11.5         | 10.0           |
| 200-220                | .4                   | 2.2  | 4.6   | 1.8   | 1.4   | .4    | .3    | .1    |       |       |       | 11.3       | 13.8         | 12.0           |
| 230-250                | 1.1                  | 1.6  | 2.2   | 2.2   | .9    | .2    | .4    | .2    |       |       |       | 8.8        | 14.0         | 14.0           |
| (W) 260-280            |                      | .2   | .7    | .2    | .3    | .1    |       |       |       |       |       | 1.4        | 14.1         | 12.0           |
| 290-310                | .1                   | .3   | .4    | .1    |       |       |       |       |       |       |       | .9         | 9.8          | 10.0           |
| 320-340                | .3                   | .1   | .2    |       |       |       |       |       |       |       |       | .6         | 6.7          | 6.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 35.7       | ////////     |                |
| TOTALS                 | 9.4                  | 17.8 | 22.2  | 8.1   | 5.1   | 1.0   | .8    | .5    |       |       |       | 100.0      | 7.2          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1039

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.6                                  | 2.6  | 1.9   | .2    |       |       |       |       |       |       |       | 6.3        | 7.5                              | 8.0            |
| 020-040                | 1.0                                  | 2.5  | 5.2   | 1.3   | .1    | .3    | .1    |       |       |       |       | 10.5       | 10.8                             | 10.0           |
| 050-070                | .7                                   | 1.4  | 4.8   | 2.0   | 1.0   | .2    | .2    |       |       |       |       | 10.3       | 13.0                             | 12.0           |
| (E) 080-100            | .1                                   | .4   | 1.0   | .7    | .4    | .1    |       |       |       |       |       | 2.6        | 13.3                             | 12.0           |
| 110-130                | .6                                   | .6   | .5    | .3    | .1    | .2    | .2    |       |       |       |       | 2.4        | 12.6                             | 12.0           |
| 140-160                | .4                                   | .2   | .4    | .3    |       |       |       |       |       |       |       | 1.2        | 9.5                              | 10.0           |
| (S) 170-190            | .4                                   | .4   | 1.5   | 1.4   | .6    |       |       |       |       |       |       | 4.2        | 13.9                             | 14.0           |
| 200-220                | .1                                   | 2.2  | 4.2   | 1.9   | 2.2   | 1.0   | .6    | .1    |       |       |       | 12.2       | 15.9                             | 14.0           |
| 230-250                | 1.0                                  | 1.4  | 3.2   | 2.4   | 1.4   | .8    | .8    | .2    |       |       |       | 11.2       | 15.4                             | 14.0           |
| (W) 260-280            | .4                                   | 1.0  | 2.0   | .9    | .8    | .4    | .1    | .1    |       |       |       | 5.7        | 13.9                             | 12.0           |
| 290-310                | 1.1                                  | .8   | 1.2   | .3    | .1    |       |       |       |       |       |       | 3.5        | 8.3                              | 8.0            |
| 320-340                | .5                                   | .1   | .7    | .2    | .5    |       |       |       |       |       |       | 1.9        | 11.9                             | 11.5           |
| VARIABLE               | .2                                   |      |       |       |       |       |       |       |       |       |       | .2         | 2.0                              | 2.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 27.8       | //////////////////////////////// |                |
| TOTALS                 | 8.1                                  | 13.6 | 26.6  | 11.9  | 7.2   | 3.0   | 2.0   | .4    |       |       |       | 100.0      | 9.3                              | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 1059

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 15-17

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                       | 1.6                  | 3.3  | 3.0   | .3    | .1    |       |       |       |       |       |       | 8.2        | 8.2          | 8.0            |
| 020-040                           | .8                   | 2.9  | 4.9   | 1.3   | .9    | .1    | .1    |       |       |       |       | 10.9       | 11.5         | 10.0           |
| 050-070                           | .4                   | 1.5  | 2.6   | 1.7   | .7    | .1    |       |       |       |       |       | 6.9        | 12.9         | 12.0           |
| (E) 080-100                       | .1                   | .8   | 1.3   | .6    | .6    | .1    |       |       |       |       |       | 3.5        | 13.3         | 14.0           |
| 110-130                           | .1                   | .1   | .4    | .2    | .3    | .3    | .2    |       |       |       |       | 1.6        | 18.9         | 19.0           |
| 140-160                           | .1                   | .2   | .1    | .1    | .1    |       |       |       |       |       |       | .6         | 11.3         | 11.0           |
| (S) 170-190                       | .2                   | .3   | 1.3   | .7    | .6    | .2    |       |       |       |       |       | 3.3        | 14.4         | 14.0           |
| 200-220                           | .4                   | 1.0  | 2.9   | 1.1   | 2.6   | 1.2   | 1.2   | .1    |       |       |       | 10.4       | 18.1         | 18.0           |
| 230-250                           | 1.2                  | 2.7  | 5.4   | 4.4   | 2.4   | .5    | 1.0   | .1    | .1    |       |       | 17.7       | 15.0         | 14.0           |
| (W) 260-280                       | 1.2                  | 3.4  | 3.6   | 1.3   | 1.2   | .3    |       |       | .1    |       |       | 11.0       | 11.6         | 10.0           |
| 290-310                           | 1.3                  | 1.1  | 1.2   | .6    | .3    |       |       |       |       |       |       | 4.5        | 9.4          | 8.0            |
| 320-340                           | 1.2                  | 1.3  | .9    | .5    | .2    | .1    |       |       |       |       |       | 4.2        | 9.1          | 8.0            |
| VARIABLE                          |                      | .1   |       |       |       |       |       |       |       |       |       | .1         | 6.0          | 6.0            |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 17.2       | //////////   |                |
| TOTALS                            | 8.6                  | 18.7 | 27.6  | 12.8  | 10.0  | 2.9   | 2.5   | .2    | .2    |       |       | 100.0      | 10.7         | 12.0           |
| TOTAL NUMBER OF OBSERVATIONS 1010 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LSI TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.4                                  | 2.3  | 1.7   | .2    |       |       |       |       |       |       |       | 6.5        | 6.7          | 6.0            |
| 020-040                | 1.7                                  | 2.3  | 5.0   | 1.7   | .2    |       |       |       |       |       |       | 10.7       | 10.2         | 10.0           |
| 050-070                | .8                                   | .6   | 3.3   | .5    | .5    | .2    |       |       |       |       |       | 5.7        | 12.1         | 11.0           |
| (E) 080-100            | .2                                   | 1.5  | 2.0   | .2    | .6    | .2    |       |       |       |       |       | 4.5        | 11.6         | 10.0           |
| 110-130                | .2                                   | .5   | .3    | .3    | .3    |       |       |       |       |       |       | 1.5        | 12.8         | 13.0           |
| 140-160                |                                      | .3   | .6    |       |       |       |       |       |       |       |       | .9         | 10.0         | 10.0           |
| (S) 170-190            | .2                                   | 1.2  | 1.7   | .9    | .3    |       |       |       |       |       |       | 4.2        | 11.8         | 10.0           |
| 200-220                | 1.2                                  | 1.1  | 4.2   | 1.8   | 2.3   | .5    | .8    |       |       |       |       | 11.7       | 15.0         | 14.0           |
| 230-250                | 1.1                                  | 4.1  | 5.6   | 5.1   | 2.3   | 1.4   | .6    |       |       |       |       | 20.0       | 14.2         | 14.0           |
| (W) 260-280            | 1.5                                  | 3.2  | 3.2   | 1.1   | .8    |       | .2    |       |       |       |       | 9.8        | 10.2         | 10.0           |
| 290-310                | .9                                   | .6   | .5    | .2    | .3    |       |       |       |       |       |       | 2.4        | 9.0          | 7.0            |
| 320-340                | .5                                   | 1.1  | 1.5   | .6    | .2    |       |       |       |       |       |       | 3.8        | 10.3         | 10.0           |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 18.2       | ////////     |                |
| TOTALS                 | 10.7                                 | 18.8 | 29.6  | 2.6   | 7.8   | 2.3   | 1.6   |       |       |       |       | 100.0      | 9.7          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 664

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 1.4                                  | 2.1  | 1.8   | .1    | .0    | .0    |       |       |       |       |       | 5.5        | 7.7          | 6.0            |
| 020-040                | 1.3                                  | 2.6  | 4.3   | 1.1   | .3    | .1    | .1    |       |       |       |       | 9.8        | 10.3         | 10.0           |
| 050-070                | 1.0                                  | 2.1  | 3.9   | 1.4   | .9    | .1    | .0    |       |       |       |       | 9.4        | 11.7         | 10.0           |
| (E) 080-100            | .5                                   | 1.1  | 1.2   | .4    | .4    | .1    |       |       |       |       |       | 3.7        | 10.8         | 10.0           |
| 110-130                | .6                                   | .6   | .4    | .2    | .2    | .2    | .1    | .0    |       |       |       | 2.4        | 11.7         | 8.0            |
| 140-160                | .5                                   | .5   | .3    | .1    | .0    |       |       |       |       |       |       | 1.4        | 7.8          | 6.0            |
| (S) 170-190            | .6                                   | 1.4  | 2.4   | 1.2   | .6    | .1    |       | .0    |       |       |       | 6.3        | 12.1         | 10.0           |
| 200-220                | .5                                   | 1.7  | 4.1   | 1.6   | 1.9   | .8    | .6    | .1    |       |       |       | 11.3       | 15.3         | 14.0           |
| 230-250                | 1.0                                  | 2.2  | 3.8   | 3.1   | 1.6   | .6    | .7    | .1    | .0    |       |       | 13.1       | 14.8         | 14.0           |
| (W) 260-280            | .6                                   | 1.6  | 2.0   | .8    | .7    | .2    | .0    | .0    | .0    |       |       | 6.0        | 11.9         | 10.0           |
| 290-310                | .8                                   | .7   | .8    | .3    | .1    |       |       |       |       |       |       | 2.6        | 9.1          | 8.0            |
| 320-340                | .5                                   | .5   | .7    | .3    | .2    | .0    |       |       |       |       |       | 2.2        | 9.9          | 10.0           |
| VARIABLE               | .0                                   | .0   |       |       |       |       |       |       |       |       |       | .1         | 3.3          | 2.0            |
| CALII                  | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 26.2       | //////////   |                |
| TOTALS                 | 9.3                                  | 17.1 | 25.7  | 10.6  | 6.9   | 2.2   | 1.5   | .2    |       |       |       | 100.0      | 8.9          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 4252

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

|             |  | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       |                                  |      |        |
|-------------|--|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|------|--------|
| DIRECTION   |  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 | TOTAL                            | MEAN | MEDIAN |
| (DEGREES)   |  |                                      |      |       |       |       |       |       |       |       |       | %     | WIND                             | WIND |        |
| (N) 350-010 |  | .5                                   | 1.0  | .2    |       | .2    |       |       |       |       |       |       | 1.9                              | 8.4  | 6.0    |
| 020-040     |  | 1.2                                  | 2.6  | 2.9   |       |       |       |       |       |       |       |       | 6.7                              | 8.4  | 8.0    |
| 050-070     |  | 1.2                                  | .7   | 1.0   | .7    |       |       |       |       |       |       |       | 3.6                              | 9.0  | 8.0    |
| (E) 080-100 |  | 1.0                                  | .2   |       | .2    |       |       |       |       |       |       |       | 1.4                              | 6.0  | 4.0    |
| 110-130     |  | .7                                   | .5   | .5    |       |       |       |       |       |       |       |       | 1.7                              | 6.9  | 8.0    |
| 140-160     |  | 1.2                                  |      | .2    | .2    |       |       |       |       |       |       |       | 1.7                              | 6.6  | 4.0    |
| (S) 170-190 |  | .7                                   | 2.4  | 2.6   | 1.4   | 1.4   |       |       |       |       |       |       | 8.6                              | 11.9 | 10.0   |
| 200-220     |  | .2                                   | 3.1  | 6.7   | 4.0   | 4.8   | 1.2   | 3.1   | .2    |       |       |       | 23.3                             | 17.5 | 17.0   |
| 230-250     |  | 1.2                                  | 1.9  | 3.3   | 3.3   | 2.9   | 1.9   | 3.6   | .7    |       |       |       | 18.8                             | 19.4 | 18.0   |
| (W) 260-280 |  | .5                                   |      | 1.2   | .2    |       |       | .2    |       |       |       |       | 2.1                              | 12.2 | 12.0   |
| 290-310     |  | .5                                   | .5   | .2    | .2    |       |       |       |       |       |       |       | 1.4                              | 8.7  | 8.0    |
| 320-340     |  |                                      | .5   |       |       | .2    |       |       |       |       |       |       | .7                               | 11.3 | 8.0    |
| VARIABLE    |  |                                      |      |       |       |       |       |       |       |       |       |       |                                  |      |        |
| CALM        |  | //////////////////////////////////// |      |       |       |       |       |       |       |       |       | 28.3  | //////////////////////////////// |      |        |
| TOTALS      |  | 8.9                                  | 13.4 | 18.8  | 10.2  | 9.5   | 3.1   | 6.9   | .9    |       |       |       | 100.0                            | 10.5 | 12.0   |

TOTAL NUMBER OF OBSERVATIONS 421

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | .2                                   | .2   |       |       |       |       |       |       |       |       |       | .4         | 3.5          | 3.5            |
| 020-040                          | 1.5                                  | 2.4  | 2.0   |       |       |       |       |       |       |       |       | 5.9        | 7.9          | 8.0            |
| 050-070                          | 1.9                                  | 3.7  | 6.1   | 1.1   | .6    | .2    |       |       |       |       |       | 13.5       | 10.2         | 10.0           |
| (E) 080-100                      | 1.5                                  | 1.9  | .6    |       | .2    |       |       |       |       |       |       | 4.1        | 7.0          | 6.0            |
| 110-130                          | 1.1                                  | 2.2  | .7    |       |       |       |       |       |       |       |       | 4.1        | 6.5          | 6.0            |
| 140-160                          | 2.4                                  | 3.0  | .6    |       |       |       |       |       |       |       |       | 5.9        | 5.7          | 6.0            |
| (S) 170-190                      | 1.1                                  | 4.4  | 3.7   | 1.1   | .2    |       |       |       |       |       |       | 10.6       | 9.5          | 8.0            |
| 200-220                          | 1.1                                  | 2.4  | 4.1   | .4    | .2    |       |       |       |       |       |       | 8.1        | 9.3          | 10.0           |
| 230-250                          | .7                                   | 1.9  | 2.6   | .7    | .4    |       |       |       |       |       |       | 6.3        | 10.6         | 10.0           |
| (W) 260-280                      | .2                                   | .2   | .9    |       |       |       |       |       |       |       |       | 1.3        | 10.0         | 10.0           |
| 290-310                          | .2                                   | .4   | .7    | .2    |       |       |       |       |       |       |       | 1.5        | 10.5         | 10.0           |
| 320-340                          | .2                                   | .7   |       | .2    |       |       |       |       |       |       |       | 1.1        | 8.2          | 7.5            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 37.2       | ////////     |                |
| TOTALS                           | 12.1                                 | 23.4 | 22.0  | 3.7   | 1.6   | .2    |       |       |       |       |       | 100.0      | 5.5          | 8.0            |
| TOTAL NUMBER OF OBSERVATIONS 540 |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.1                                  | 1.3  | 1.3   | .2    |       |       |       |       |       |       |       | 3.9        | 7.9                              | 8.0            |
| 020-040                | .9                                   | 3.0  | 4.2   | .4    | .2    |       |       |       |       |       |       | 8.8        | 9.4                              | 10.0           |
| 050-070                | 1.7                                  | 3.2  | 4.6   | .6    | 1.0   | .4    | .2    |       |       |       |       | 11.7       | 10.9                             | 10.0           |
| (E) 080-100            | .7                                   | 1.4  | 1.3   |       | .1    |       |       |       |       |       |       | 3.5        | 7.9                              | 8.0            |
| 110-130                | .6                                   | .7   | .2    | .1    |       | .1    |       |       |       |       |       | 1.7        | 7.3                              | 6.0            |
| 140-160                | .7                                   | .6   | .4    |       |       |       |       |       |       |       |       | 1.8        | 6.2                              | 5.5            |
| (S) 170-190            | 1.7                                  | 2.4  | 2.5   | 1.2   | .4    |       |       |       |       |       |       | 8.3        | 9.7                              | 9.0            |
| 200-220                | .7                                   | 2.3  | 4.1   | .8    | .5    |       |       |       | .1    |       |       | 8.6        | 11.0                             | 10.0           |
| 230-250                | .5                                   | 1.8  | 2.4   | 2.2   | .3    |       |       |       |       |       |       | 7.2        | 11.8                             | 11.0           |
| (W) 260-280            | .5                                   | 1.0  | 1.8   | .4    | .1    |       |       |       |       |       |       | 3.9        | 10.2                             | 10.0           |
| 290-310                | .2                                   | .4   | .6    |       | .1    |       |       |       |       |       |       | 1.3        | 9.6                              | 10.0           |
| 320-340                | .6                                   | .2   | .5    | .1    |       |       |       |       |       |       |       | 1.4        | 7.7                              | 7.0            |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 38.1       | //////////////////////////////// |                |
| TOTALS                 | 9.9                                  | 18.3 | 23.9  | 6.0   | 2.7   | .5    | .2    |       | .1    |       |       | 100.0      | 6.1                              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1115

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 12-14

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|-----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                   | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                       | 1.7                                  | 3.6  | 2.8   | .3    | .1    |       |       |       |       |       |       | 8.5        | 8.1          | 8.0            |
| 020-040                           | .9                                   | 2.3  | 5.0   | 1.2   | 1.2   | .2    |       |       |       |       |       | 10.8       | 11.8         | 10.0           |
| 050-070                           | .6                                   | 1.5  | 3.4   | 2.2   | 1.0   |       | .1    |       |       |       |       | 8.7        | 13.0         | 13.0           |
| (E) 080-100                       | .6                                   | .8   | .9    | .9    | .3    |       |       |       |       |       |       | 3.4        | 10.8         | 10.0           |
| 110-130                           | .6                                   | .3   | .7    | .3    | .2    |       |       |       |       |       |       | 2.1        | 10.8         | 10.0           |
| 140-160                           |                                      |      | .3    | .2    | .1    |       |       |       |       |       |       | .6         | 13.7         | 12.0           |
| (S) 170-190                       | .4                                   | .9   | .6    | .8    | .5    | .1    | .1    |       |       |       |       | 3.4        | 12.9         | 12.0           |
| 200-220                           | .9                                   | 1.0  | 2.5   | 1.1   | 1.0   | .1    | .4    |       |       |       |       | 7.0        | 13.7         | 14.0           |
| 230-250                           | .8                                   | 2.5  | 4.7   | 2.6   | 1.2   | .3    | .1    |       | .1    |       |       | 12.4       | 13.3         | 12.0           |
| (W) 260-280                       | 1.2                                  | 2.5  | 5.1   | 1.2   | .5    | .1    |       |       |       |       |       | 10.7       | 10.8         | 10.0           |
| 290-310                           | 1.0                                  | .8   | 1.5   | 1.0   | .3    |       |       |       |       |       |       | 4.4        | 10.7         | 10.0           |
| 320-340                           | .5                                   | 1.3  | 1.0   | .3    |       |       |       |       |       |       |       | 3.2        | 8.7          | 8.0            |
| VARIABLE                          | .3                                   | .1   |       |       |       |       |       |       |       |       |       | .3         | 3.8          | 3.5            |
| CALN                              | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 24.4       | ////////     |                |
| TOTALS                            | 9.5                                  | 17.6 | 28.5  | 12.1  | 6.4   | .8    | .7    |       | .1    |       |       | 100.0      | 8.7          | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 1149 |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.7                                  | 2.2  | 2.4   | .6    | .5    |       |       |       |       |       |       | 7.5        | 9.3                              | 8.0            |
| 020-040                | .5                                   | 1.4  | 3.1   | 1.6   | .8    | .1    |       |       |       |       |       | 7.4        | 12.5                             | 12.0           |
| 050-070                | .7                                   | 1.1  | 2.8   | 1.6   | .7    | .1    |       |       |       |       |       | 6.9        | 12.4                             | 12.0           |
| (E) 080-100            | .3                                   | .6   | .7    | .6    | .4    | .3    |       |       |       |       |       | 2.8        | 13.6                             | 12.0           |
| 110-130                |                                      | .3   | .7    | .7    |       |       |       |       |       |       |       | 1.6        | 13.0                             | 14.0           |
| 140-160                |                                      | .2   | .1    |       |       |       |       |       |       |       |       | .3         | 8.3                              | 8.0            |
| (S) 170-190            | .2                                   | .4   | 1.0   | .7    | .5    | .1    | .2    | .1    |       |       |       | 3.1        | 15.4                             | 15.0           |
| 200-220                | .4                                   | 1.1  | 1.6   | 1.7   | 1.6   | .1    | .8    |       |       |       |       | 7.2        | 16.2                             | 17.0           |
| 230-250                | .7                                   | 2.9  | 6.4   | 2.7   | 3.3   | 1.6   | .8    |       |       |       |       | 18.3       | 15.2                             | 14.0           |
| (W) 260-280            | 1.6                                  | 5.0  | 6.0   | 1.9   | 1.1   | .3    | .1    |       |       |       |       | 16.0       | 11.2                             | 10.0           |
| 290-310                | 1.5                                  | 2.0  | 2.5   | 1.1   | .3    |       |       |       |       |       |       | 7.4        | 9.7                              | 10.0           |
| 320-340                | .8                                   | 2.6  | 1.3   | .7    | .2    |       |       |       |       |       |       | 5.5        | 9.0                              | 8.0            |
| VARIABLE               | .6                                   | .2   | .2    |       |       |       |       |       |       |       |       | 1.0        | 5.2                              | 4.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 15.0       | //////////////////////////////// |                |
| TOTALS                 | 9.0                                  | 20.0 | 28.8  | 13.9  | 9.4   | 2.6   | 1.9   | .1    |       |       |       | 100.0      | 10.6                             | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 1031

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010                      | .7                                   | 2.3  | 1.7   | 1.2   | .3    |       |       |       |       |       |            | 6.2          | 10.3                             | 10.0  |
| 020-040                          | .9                                   | 1.6  | 2.6   | .8    | .3    |       |       |       |       |       |            | 6.2          | 10.3                             | 10.0  |
| 050-070                          | .4                                   | .8   | 2.6   | 1.1   | .4    |       |       |       |       |       |            | 5.2          | 11.7                             | 10.0  |
| (E) 080-100                      | .3                                   | 1.2  | 2.1   | .5    | .3    | .1    |       |       |       |       |            | 4.6          | 11.3                             | 10.0  |
| 110-130                          | .1                                   | .5   | .3    | .4    | .1    |       |       |       |       |       |            | 1.5          | 11.8                             | 12.0  |
| 140-160                          |                                      | .3   | .3    |       |       |       |       |       |       |       |            | .5           | 9.3                              | 9.0   |
| (S) 170-190                      | .4                                   | .9   | 1.1   | 1.3   | .3    | .1    |       |       |       |       |            | 4.2          | 12.5                             | 12.0  |
| 200-220                          | .4                                   | 1.5  | 3.6   | 1.9   | 1.2   | .5    | .4    |       |       |       |            | 9.5          | 14.4                             | 12.0  |
| 230-250                          | .8                                   | 4.0  | 7.9   | 4.6   | 3.4   | .5    | .7    |       |       |       |            | 21.9         | 14.0                             | 14.0  |
| (W) 260-280                      | 1.6                                  | 4.3  | 5.0   | 2.1   | 1.3   | .1    | .1    |       |       |       |            | 14.6         | 11.1                             | 10.0  |
| 290-310                          | 1.3                                  | 2.1  | 2.1   | 1.2   | .7    |       |       |       |       |       |            | 7.5          | 10.6                             | 10.0  |
| 320-340                          | .5                                   | 2.4  | 1.9   | .9    |       |       |       |       |       |       |            | 5.8          | 9.7                              | 8.0   |
| VARIABLE                         |                                      | .1   |       |       |       |       |       |       |       |       |            | .1           | 6.0                              | 6.0   |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 12.2         | //////////////////////////////// |       |
| TOTALS                           | 7.4                                  | 22.0 | 31.2  | 16.0  | 8.3   | 1.3   | 1.2   |       |       |       |            | 100.0        | 10.6                             | 10.0  |
| TOTAL NUMBER OF OBSERVATIONS 745 |                                      |      |       |       |       |       |       |       |       |       |            |              |                                  |       |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.2                                  | 2.1  | 1.9   | .5    | .2    |       |       |       |       |       |       | 5.8        | 8.8                              | 8.0            |
| 020-040                | .9                                   | 2.2  | 3.6   | .9    | .6    | .1    |       |       |       |       |       | 8.2        | 10.8                             | 10.0           |
| 050-070                | 1.0                                  | 2.0  | 3.7   | 1.4   | .8    | .1    | .1    |       |       |       |       | 9.0        | 11.6                             | 10.0           |
| (E) 080-100            | .6                                   | 1.1  | 1.1   | .4    | .2    | .1    |       |       |       |       |       | 3.6        | 10.2                             | 10.0           |
| 110-130                | .5                                   | .7   | .5    | .3    | .1    | .0    |       |       |       |       |       | 2.0        | 9.6                              | 8.0            |
| 140-160                | .5                                   | .6   | .3    | .0    | .0    |       |       |       |       |       |       | 1.4        | 7.0                              | 6.0            |
| (S) 170-190            | .8                                   | 1.6  | 1.6   | 1.0   | .4    | .1    | .1    | .0    |       |       |       | 5.5        | 11.2                             | 10.0           |
| 200-220                | .7                                   | 1.6  | 3.1   | 1.2   | .9    | .1    | .3    |       | .0    |       |       | 8.0        | 13.1                             | 12.0           |
| 230-250                | .7                                   | 2.6  | 4.8   | 2.6   | 1.7   | .5    | .3    |       | .0    |       |       | 13.3       | 13.7                             | 12.0           |
| (W) 260-280            | 1.1                                  | 2.7  | 4.0   | 1.2   | .6    | .1    | .0    |       |       |       |       | 9.8        | 11.0                             | 10.0           |
| 290-310                | .9                                   | 1.1  | 1.5   | .7    | .3    |       |       |       |       |       |       | 4.5        | 10.2                             | 10.0           |
| 320-340                | .6                                   | 1.4  | 1.0   | .4    | .0    |       |       |       |       |       |       | 3.5        | 9.0                              | 8.0            |
| VARIABLE               | .2                                   | .1   | .0    |       |       |       |       |       |       |       |       | .3         | 4.9                              | 4.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 25.2       | //////////////////////////////// |                |
| TOTALS                 | 9.7                                  | 19.8 | 27.1  | 10.6  | 5.8   | 1.1   | .8    |       |       |       |       | 100.0      | 8.4                              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 4580

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST T UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION  <br>(DEGREES)         | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL | MEAN                             | MEDIAN |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|--------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |                                  |        |
|                                  |                                      |      |       |       |       |       |       |       |       |       | %     | WIND                             | WIND   |
| (N) 350-010                      | .5                                   | .9   | .9    |       |       |       |       |       |       |       | 2.3   | 8.2                              | 8.0    |
| 020-040                          | .9                                   | 2.8  | 1.8   |       |       |       |       |       |       |       | 5.5   | 7.5                              | 6.0    |
| 050-070                          | 1.4                                  | 1.4  | .9    |       |       |       |       |       |       |       | 3.7   | 5.5                              | 6.0    |
| (E) 080-100                      |                                      | 1.4  |       |       |       |       |       |       |       |       | 1.4   | 6.7                              | 6.0    |
| 110-130                          | .5                                   |      |       |       |       |       |       |       |       |       | .5    | 4.0                              | 4.0    |
| 140-160                          |                                      | 1.4  | 1.4   |       |       |       |       |       |       |       | 2.8   | 8.7                              | 8.0    |
| (S) 170-190                      | 1.4                                  | 6.0  | 2.3   | 3.2   | .5    | .5    | .5    |       |       |       | 14.3  | 11.3                             | 8.0    |
| 200-220                          | .5                                   | 3.7  | 6.5   | 6.5   | 2.8   | .9    | 1.8   |       | .5    |       | 23.0  | 16.0                             | 16.0   |
| 230-250                          | .5                                   | 1.4  | 2.3   | .5    | 1.8   | .9    |       |       |       |       | 7.4   | 14.4                             | 14.0   |
| (W) 260-280                      | 1.4                                  | .5   | .9    | .9    | .5    | .5    |       |       |       |       | 4.6   | 12.5                             | 11.5   |
| 290-310                          | .5                                   |      | .9    | .5    |       |       |       |       |       |       | 1.8   | 11.5                             | 12.0   |
| 320-340                          |                                      | .9   | .5    |       |       |       |       |       |       |       | 1.4   | 9.3                              | 8.0    |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |                                  |        |
| CALII                            | //////////////////////////////////// |      |       |       |       |       |       |       |       |       | 31.3  | //////////////////////////////// |        |
| TOTALS                           | 7.6                                  | 20.4 | 18.4  | 11.6  | 5.6   | 2.8   | 2.3   |       | .5    |       | 100.0 | 8.4                              | 10.0   |
| TOTAL NUMBER OF OBSERVATIONS 217 |                                      |      |       |       |       |       |       |       |       |       |       |                                  |        |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | .4                                   | .6   | .1    |       |       |       |       |       |       |       |       | 1.2        | 6.3                              | 6.0            |
| 020-040                          | .7                                   | 1.6  | 1.9   |       |       |       |       |       |       |       |       | 4.2        | 8.4                              | 8.0            |
| 050-070                          | .9                                   | 2.9  | 2.8   | .7    | .6    |       |       |       |       |       |       | 7.8        | 10.0                             | 10.0           |
| (E) 080-100                      | 1.5                                  | 1.3  | 1.6   |       |       |       |       |       |       |       |       | 4.4        | 7.1                              | 7.0            |
| 110-130                          | 1.7                                  | 2.0  | .9    | .3    |       |       |       |       |       |       |       | 4.9        | 7.0                              | 6.0            |
| 140-160                          | 1.3                                  | 2.3  | 1.2   |       |       |       |       |       |       |       |       | 4.8        | 7.2                              | 7.0            |
| (S) 170-190                      | 1.9                                  | 4.9  | 6.0   | .9    | .4    |       |       |       |       |       |       | 14.1       | 9.4                              | 10.0           |
| 200-220                          | 1.0                                  | 4.2  | 7.1   | 1.2   | .9    |       |       |       |       |       |       | 14.4       | 10.6                             | 10.0           |
| 230-250                          | .6                                   | 1.2  | 3.2   | 1.5   |       | .1    |       |       |       |       |       | 6.5        | 11.6                             | 12.0           |
| (W) 260-280                      |                                      | .6   | .4    |       |       |       |       |       |       |       |       | 1.0        | 9.4                              | 8.0            |
| 290-310                          | .6                                   | .3   |       |       |       |       |       |       |       |       |       | .9         | 4.7                              | 4.0            |
| 320-340                          |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 35.8       | //////////////////////////////// |                |
| TOTALS                           | 10.6                                 | 21.9 | 25.2  | 4.6   | 1.9   | .1    |       |       |       |       |       | 100.0      | 6.0                              | 8.0            |
| TOTAL NUMBER OF OBSERVATIONS 689 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MCNTH: APR HOURS: 09-11

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                       | .8                   | 1.9  | .7    | .1    |       |       |       |       |       |       |       | 3.4        | 7.0          | 6.0            |
| 020-040                           | 1.4                  | 2.0  | 2.7   | 1.1   | .1    |       |       |       |       |       |       | 7.3        | 9.5          | 10.0           |
| 050-070                           | .5                   | 2.5  | 4.0   | 1.5   | .8    | .4    |       |       |       |       |       | 9.9        | 12.0         | 10.0           |
| (E) 080-100                       | .8                   | .8   | .9    | .6    | .2    |       |       |       |       |       |       | 3.2        | 10.0         | 10.0           |
| 110-130                           | .6                   | .4   | .8    | .3    |       |       |       |       |       |       |       | 2.0        | 8.7          | 9.0            |
| 140-160                           | .3                   | .5   | .3    | .1    |       |       |       |       |       |       |       | 1.2        | 7.8          | 8.0            |
| (S) 170-190                       | 1.3                  | 2.1  | 3.7   | 1.0   | 1.1   | .3    | .1    |       |       |       |       | 9.5        | 11.7         | 10.0           |
| 200-220                           | .5                   | 3.0  | 6.5   | 2.6   | .8    | .1    | .1    | .1    |       |       |       | 13.7       | 12.1         | 12.0           |
| 230-250                           | .9                   | 2.3  | 4.2   | 1.0   | .7    | .1    |       |       |       |       |       | 9.2        | 11.1         | 10.0           |
| (W) 260-280                       | .4                   | 1.0  | 1.2   | .8    | .5    |       |       |       |       |       |       | 3.9        | 12.2         | 12.0           |
| 290-310                           | .3                   | .7   | .8    | .2    |       |       |       |       |       |       |       | 2.0        | 8.8          | 9.0            |
| 320-340                           | .4                   | .1   | .4    | .2    |       |       |       |       |       |       |       | 1.1        | 8.6          | 10.0           |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 33.6       | ////////     |                |
| TOTALS                            | 8.2                  | 17.3 | 26.2  | 9.5   | 4.2   | .9    | .2    | .1    |       |       |       | 100.0      | 7.2          | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 1177 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION: "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FRM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.7                                  | .8   | .8    | .1    |       |       |       |       |       |       |       | 3.4        | 6.6                              | 6.0            |
| 020-040                | .6                                   | 1.0  | 2.8   | .7    | .6    |       |       |       |       |       |       | 5.7        | 11.8                             | 11.0           |
| 050-070                | .4                                   | 1.7  | 2.9   | 1.8   | .9    | .2    |       |       |       |       |       | 7.8        | 13.1                             | 14.0           |
| (E) 080-100            | .5                                   | .6   | 1.4   | .5    | .4    | .2    |       |       |       |       |       | 3.5        | 12.0                             | 12.0           |
| 110-130                |                                      | .5   | .6    | .2    | .4    |       |       |       |       |       |       | 1.6        | 12.9                             | 10.0           |
| 140-160                | .1                                   | .2   | .3    | .1    | .2    |       |       |       |       |       |       | .8         | 12.7                             | 12.0           |
| (S) 170-190            | .2                                   | 1.3  | 2.2   | .8    | 1.2   | .4    | .6    | .1    |       |       |       | 6.7        | 15.7                             | 14.0           |
| 200-220                | .2                                   | 1.6  | 5.1   | 2.6   | 2.8   | .2    | .3    |       |       |       |       | 12.6       | 14.9                             | 14.0           |
| 230-250                | 1.0                                  | 3.4  | 7.1   | 2.9   | 2.8   |       | .3    |       |       |       |       | 17.5       | 12.9                             | 12.0           |
| (W) 260-280            | 1.5                                  | 2.2  | 5.0   | 1.4   | 1.1   |       | .2    |       |       |       |       | 11.3       | 11.6                             | 10.0           |
| 290-310                | .9                                   | 1.2  | 1.5   | .9    | .2    | .1    |       |       |       |       |       | 4.8        | 10.6                             | 10.0           |
| 320-340                | .6                                   | .6   | .9    | .2    | .1    |       |       |       |       |       |       | 2.3        | 9.2                              | 10.0           |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 21.8       | //////////////////////////////// |                |
| TOTALS                 | 7.7                                  | 15.1 | 30.6  | 12.2  | 10.7  | 1.1   | 1.4   | .1    |       |       |       | 100.0      | 9.9                              | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 1085

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 15-17

| WIND SPEED IN KNOTS               |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
|-----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
| DIRECTION<br>(DEGREES)            | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
| (N) 350-010                       | .6                                   | 1.2  | 1.4   | .1    | .1    |       |       |       |       |       |       | 3.4        | 9.1                              | 8.0            |
| 020-040                           | .4                                   | 1.5  | 1.2   | 1.2   | .6    |       |       |       |       |       |       | 4.9        | 12.3                             | 12.0           |
| 050-070                           | .3                                   | .9   | 2.3   | 1.1   | .6    | .1    |       |       |       |       |       | 5.3        | 12.7                             | 12.0           |
| (E) 080-100                       | .2                                   | .8   | 1.1   | .2    | .2    |       |       |       |       |       |       | 2.4        | 11.6                             | 10.0           |
| 110-130                           | .6                                   | .3   | 1.3   | .3    | .3    |       |       |       |       |       |       | 2.7        | 10.6                             | 10.0           |
| 140-160                           | .2                                   | .3   | .3    | .2    |       |       |       |       |       |       |       | .9         | 9.4                              | 9.0            |
| (S) 170-190                       | .4                                   | .5   | 1.6   | 1.2   | 1.0   | .5    | .2    |       |       |       |       | 5.4        | 15.6                             | 16.0           |
| 200-220                           | .6                                   | .7   | 3.5   | 2.0   | 4.4   | .8    | .4    | .2    |       |       |       | 12.6       | 17.3                             | 18.0           |
| 230-250                           | .6                                   | 2.6  | 7.4   | 4.9   | 5.7   | 1.2   | .4    | .1    |       |       |       | 23.0       | 15.8                             | 16.0           |
| (W) 260-280                       | 1.1                                  | 3.2  | 7.4   | 3.0   | 2.0   | .2    |       |       |       |       |       | 16.8       | 12.5                             | 12.0           |
| 290-310                           | .9                                   | 1.7  | 2.3   | .7    |       |       |       |       |       |       |       | 5.5        | 9.2                              | 10.0           |
| 320-340                           | .4                                   | 1.3  | .9    | .4    |       |       |       |       |       |       |       | 3.0        | 9.6                              | 8.0            |
| VARIABLE                          |                                      | .2   | .1    |       |       |       |       |       |       |       |       | .3         | 6.7                              | 5.0            |
| CALM                              | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 13.9       | //////////////////////////////// |                |
| TOTALS                            | 6.3                                  | 15.2 | 30.8  | 15.3  | 14.9  | 2.8   | 1.0   | .3    |       |       |       | 100.0      | 11.8                             | 12.0           |
| TOTAL NUMBER OF OBSERVATIONS 1138 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |       |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|-------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65 |
| (N) 350-010            | .4                                   | .9   | 1.2   | .3    | .3    |       |       |       |       |       |            | 3.0          | 9.9            | 10.0  |
| 020-040                | .4                                   | .9   | 2.2   | .6    | .4    |       |       |       |       |       |            | 4.5          | 11.7           | 12.0  |
| 050-070                | .1                                   | 1.4  | 1.7   | .9    | .3    |       |       |       |       |       |            | 4.4          | 11.5           | 10.0  |
| (E) 080-100            | .4                                   | .6   | 1.0   | .5    | .1    |       |       |       |       |       |            | 2.7          | 10.6           | 10.0  |
| 110-130                | .4                                   | .4   | 1.3   | .1    | .4    |       |       |       |       |       |            | 2.6          | 11.4           | 12.0  |
| 140-160                | .1                                   | .4   | .4    | .1    |       |       |       |       |       |       |            | 1.0          | 9.6            | 9.5   |
| (S) 170-190            | .1                                   | .5   | 2.7   | 1.3   | 1.0   | .3    |       |       |       |       |            | 5.9          | 14.9           | 14.0  |
| 200-220                | .3                                   | .8   | 4.0   | 3.2   | 3.2   | .8    | .3    |       |       |       |            | 12.5         | 16.7           | 16.0  |
| 230-250                | .8                                   | 2.1  | 8.6   | 8.1   | 8.8   | 1.0   | 1.3   |       |       |       |            | 30.7         | 16.7           | 18.0  |
| (W) 260-280            | .8                                   | 2.8  | 5.5   | 3.0   | 1.4   | .1    |       |       |       |       |            | 13.7         | 12.5           | 12.0  |
| 290-310                | .4                                   | 1.0  | 2.1   | 1.3   | .1    | .1    | .1    |       |       |       |            | 5.2          | 12.5           | 12.0  |
| 320-340                | .4                                   | .8   | .9    | .3    |       |       |       |       |       |       |            | 2.3          | 9.3            | 9.0   |
| VARIABLE               |                                      | .3   | .1    |       |       |       |       |       |       |       |            | .4           | 7.0            | 6.0   |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 11.2         | ////////       |       |
| TOTALS                 | 4.6                                  | 12.9 | 31.7  | 19.7  | 16.0  | 2.3   | 1.7   |       |       |       |            | 100.0        | 12.7           | 14.0  |

TOTAL NUMBER OF OBSERVATIONS 776

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: ALL

| WIND SPEED IN KNOTS |                                      |      |       |       |       |       |       |       |       |       |       |       |                                  |        |      |      |
|---------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|--------|------|------|
| DIRECTION           | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 | TOTAL | MEAN                             | MEDIAN |      |      |
| (DEGREES)           |                                      |      |       |       |       |       |       |       |       |       |       | %     | WIND                             | WIND   |      |      |
| (N) 350-010         | .8                                   | 1.2  | .9    | .1    | .1    |       |       |       |       |       |       |       | 3.0                              | 7.9    | 8.0  |      |
| 020-040             | .7                                   | 1.4  | 2.2   | .8    | .3    |       |       |       |       |       |       |       | 5.5                              | 10.8   | 10.0 |      |
| 050-070             | .4                                   | 1.8  | 2.8   | 1.3   | .7    | .2    |       |       |       |       |       |       |                                  | 7.2    | 12.0 | 10.0 |
| (E) 080-100         | .6                                   | .8   | 1.2   | .4    | .2    | .0    |       |       |       |       |       |       |                                  | 3.2    | 10.3 | 10.0 |
| 110-130             | .6                                   | .6   | .9    | .2    | .2    |       |       |       |       |       |       |       | 2.6                              | 9.7    | 10.0 |      |
| 140-160             | .3                                   | .6   | .4    | .1    | .0    |       |       |       |       |       |       |       | 1.5                              | 8.5    | 8.0  |      |
| (S) 170-190         | .7                                   | 1.7  | 3.0   | 1.0   | 1.0   | .3    | .2    | .0    |       |       |       |       | 8.0                              | 12.9   | 12.0 |      |
| 200-220             | .5                                   | 2.0  | 5.2   | 2.4   | 2.5   | .4    | .2    | .1    |       |       |       |       | 13.1                             | 14.4   | 14.0 |      |
| 230-250             | .8                                   | 2.4  | 6.1   | 3.6   | 3.5   | .5    | .4    | .0    |       |       |       |       | 17.3                             | 14.6   | 14.0 |      |
| (W) 260-280         | .8                                   | 2.0  | 4.1   | 1.7   | 1.1   | .1    | .0    |       |       |       |       |       |                                  | 9.7    | 12.2 | 12.0 |
| 290-310             | .6                                   | 1.0  | 1.4   | .6    | .1    | .0    | .0    |       |       |       |       |       |                                  | 3.8    | 10.1 | 10.0 |
| 320-340             | .4                                   | .6   | .7    | .2    | .0    |       |       |       |       |       |       |       | 1.8                              | 9.3    | 8.0  |      |
| VARIABLE            | .1                                   |      | .0    |       |       |       |       |       |       |       |       | .1    | 6.8                              | 5.5    |      |      |
| CALM                | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 23.1  | //////////////////////////////// |        |      |      |
| TOTALS              | 7.2                                  | 16.2 | 28.9  | 12.4  | 9.7   | 1.5   | .8    | .1    |       |       |       | 100.0 | 9.6                              | 12.0   |      |      |

TOTAL NUMBER OF OBSERVATIONS 4865

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION  <br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|--------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                          | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65      |              |                |
| (N) 350-010              |                      | .3   | .9    |       |       |       |       |       |       |       | 1.2        | 11.3         | 13.0           |
| 020-040                  | 3.0                  | .6   | .3    | .3    |       |       |       |       |       |       | 4.2        | 5.4          | 4.0            |
| 050-070                  | 1.2                  | 1.5  | 1.2   | .3    |       |       |       |       |       |       | 4.2        | 8.0          | 7.0            |
| (E) 080-100              | .3                   | .9   | .6    |       |       |       |       |       |       |       | 1.8        | 9.0          | 8.0            |
| 110-130                  | .9                   | .3   | 1.2   |       |       |       |       |       |       |       | 2.4        | 7.3          | 8.0            |
| 140-160                  | 1.8                  | .3   | .3    | .3    |       |       |       |       |       |       | 2.7        | 6.0          | 4.0            |
| (S) 170-190              | .3                   | 2.7  | 4.8   | 1.2   | .9    |       |       |       |       |       | 10.0       | 11.8         | 10.0           |
| 200-220                  | .3                   | 3.9  | 11.2  | 3.3   | 4.8   | .3    |       |       |       |       | 23.9       | 13.8         | 14.0           |
| 230-250                  | .6                   | 1.8  | 5.1   | 1.8   | 2.1   | .3    | .3    |       |       |       | 12.1       | 14.0         | 14.0           |
| (W) 260-280              | .3                   | 1.8  | 3.3   | .6    | .3    |       |       |       |       |       | 6.3        | 11.0         | 10.0           |
| 290-310                  | .9                   | 1.8  | .6    |       |       |       | .3    |       |       |       | 3.6        | 8.5          | 6.0            |
| 320-340                  | .3                   | .3   | .3    | .3    |       |       |       |       |       |       | 1.2        | 9.5          | 9.0            |
| VARIABLE                 |                      |      |       |       |       |       |       |       |       |       |            |              |                |
| CALM                     | //////////////////// |      |       |       |       |       |       |       |       |       | 26.3       | ////////     |                |
| TOTALS                   | 9.9                  | 16.2 | 29.8  | 8.1   | 8.1   | .6    | .6    |       |       |       | 100.0      | 8.5          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 331

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      |                      | .4   | .5    | .1    |       |       |       |       |       |       |       | 1.1        | 9.6          | 10.0           |
| 020-040                          | 1.2                  | 1.0  | .5    | .1    |       |       |       |       |       |       |       | 2.9        | 6.5          | 6.0            |
| 050-070                          | 1.8                  | 3.5  | 2.2   | .3    |       |       |       |       |       |       |       | 7.8        | 7.9          | 8.0            |
| (E) 080-100                      | 1.1                  | 1.4  | .5    | .7    |       |       |       |       |       |       |       | 3.7        | 8.3          | 6.0            |
| 110-130                          | 1.1                  | 1.9  | .4    |       |       |       |       |       |       |       |       | 3.4        | 6.1          | 6.0            |
| 140-160                          | .7                   | 2.5  | .3    |       |       |       |       |       |       |       |       | 3.4        | 6.8          | 6.0            |
| (S) 170-190                      | 3.0                  | 7.1  | 5.7   | 1.1   | .1    |       |       |       |       |       |       | 17.1       | 8.4          | 8.0            |
| 200-220                          | 1.5                  | 3.7  | 7.8   | .5    | .1    |       |       |       |       |       |       | 13.6       | 9.7          | 10.0           |
| 230-250                          | 1.8                  | 2.5  | 2.5   | .3    | .5    |       |       |       |       |       |       | 7.5        | 8.8          | 8.0            |
| (W) 260-280                      | 1.0                  | .5   | 1.0   |       |       |       |       |       |       |       |       | 2.5        | 7.8          | 7.0            |
| 290-310                          |                      |      | .1    |       |       |       |       |       |       |       |       | .1         | 14.0         | 14.0           |
| 320-340                          |                      | .1   |       |       |       |       |       |       |       |       |       | .1         | 6.0          | 6.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 36.8       | ////////     |                |
| TOTALS                           | 13.2                 | 24.6 | 21.5  | 3.1   | .7    |       |       |       |       |       |       | 100.0      | 5.3          | 8.0            |
| TOTAL NUMBER OF OBSERVATIONS 733 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.7                                  | 1.6  | 1.3   |       | .1    |       |       |       |       |       |       | 4.6        | 6.9                              | 6.0            |
| 020-040                | 1.3                                  | 1.9  | 3.5   | .5    | .1    |       |       |       |       |       |       | 7.3        | 9.4                              | 10.0           |
| 050-070                | 1.1                                  | 2.2  | 2.5   | 1.0   | .3    |       |       |       |       |       |       | 7.2        | 10.0                             | 10.0           |
| (E) 080-100            | .3                                   | .5   | .9    | .4    | .1    | .2    |       |       |       |       |       | 2.4        | 11.7                             | 10.0           |
| 110-130                | .3                                   | .4   | .3    | .1    |       |       |       |       |       |       |       | 1.1        | 7.2                              | 6.0            |
| 140-160                |                                      | .3   | .1    |       |       |       |       |       |       |       |       | .4         | 8.0                              | 8.0            |
| (S) 170-190            | 1.5                                  | 1.7  | 3.0   | 1.1   | .6    | .1    |       |       |       |       |       | 7.9        | 10.7                             | 10.0           |
| 200-220                | 1.5                                  | 2.4  | 6.3   | 2.1   | .6    | .1    |       |       |       |       |       | 13.0       | 11.1                             | 10.0           |
| 230-250                | 1.9                                  | 3.8  | 5.8   | 2.4   | .5    | .1    |       |       |       |       |       | 14.5       | 10.7                             | 10.0           |
| (W) 260-280            | 1.3                                  | 1.0  | 1.8   | .6    | .1    |       |       |       |       |       |       | 4.7        | 9.4                              | 10.0           |
| 290-310                | .9                                   | .6   | .4    | .3    |       |       |       |       |       |       |       | 2.3        | 7.9                              | 6.0            |
| 320-340                | .8                                   | .7   | .2    |       |       |       |       |       |       |       |       | 1.7        | 5.3                              | 5.0            |
| VARIABLE               | .3                                   | .3   |       |       |       |       |       |       |       |       |       | .5         | 4.2                              | 4.5            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 32.4       | //////////////////////////////// |                |
| TOTALS                 | 12.9                                 | 17.4 | 26.1  | 8.5   | 2.4   | .5    |       |       |       |       |       | 100.0      | 6.7                              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1186

OPERATING LOCATION "A"  
USAFÉTAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010            | 1.7                  | 1.4  | .6    | .3    |       |       |       |       |       |       |       | 4.0        | 7.0              | 6.0            |
| 020-040                | .6                   | .8   | 1.3   | .3    |       |       |       |       |       |       |       | 3.0        | 9.1              | 10.0           |
| 050-070                | .3                   | 1.6  | 2.2   | 1.3   | .5    | .1    |       |       |       |       |       | 6.1        | 12.3             | 12.0           |
| (E) 080-100            | .2                   | .7   | .8    | .5    | .1    |       |       |       |       |       |       | 2.3        | 11.2             | 11.0           |
| 110-130                | .4                   | .6   | .5    | .2    |       |       |       |       |       |       |       | 1.8        | 8.3              | 8.0            |
| 140-160                |                      | .3   | .4    | .1    |       |       |       |       |       |       |       | .7         | 10.5             | 10.0           |
| (S) 170-190            | .5                   | .6   | 1.1   | .7    | .4    |       |       |       |       |       |       | 3.3        | 11.7             | 12.0           |
| 200-220                | .9                   | 2.2  | 5.0   | 1.9   | 2.9   | .2    | .1    |       |       |       |       | 13.2       | 13.5             | 12.0           |
| 230-250                | 1.6                  | 4.5  | 9.5   | 4.9   | 2.1   | .3    |       |       |       |       |       | 22.8       | 12.3             | 12.0           |
| (W) 260-280            | 2.1                  | 4.0  | 5.2   | 1.8   | 1.6   | .1    | .1    |       |       |       |       | 15.0       | 11.1             | 10.0           |
| 290-310                | .9                   | 1.0  | 1.2   | .1    | .1    |       |       |       |       |       |       | 3.2        | 7.9              | 8.0            |
| 320-340                | .8                   | .9   | .4    |       |       |       |       |       |       |       |       | 2.1        | 6.7              | 6.0            |
| VARIABLE               | .9                   | .4   |       |       |       |       |       |       |       |       |       | 1.3        | 4.4              | 4.0            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 21.2       | //////////////// |                |
| TOTALS                 | 10.9                 | 19.0 | 28.2  | 12.1  | 7.7   | .7    | .2    |       |       |       |       | 100.0      | 8.9              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1117

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | .1                                   | 1.0  | .9    | .2    | .1    |       |       |       |       |       |       | 2.2        | 9.5                              | 10.0           |
| 020-040                | .5                                   | .5   | 1.2   | .3    |       |       |       |       |       |       |       | 2.6        | 9.4                              | 10.0           |
| 050-070                | .3                                   | .4   | 1.4   | .6    | .2    |       |       |       |       |       |       | 2.9        | 12.0                             | 12.0           |
| (E) 080-100            | .3                                   | .4   | 1.2   | .4    | .1    |       |       |       |       |       |       | 2.4        | 11.1                             | 10.0           |
| 110-130                | .3                                   | .6   | 1.4   |       | .1    |       |       |       |       |       |       | 2.4        | 9.8                              | 10.0           |
| 140-160                | .3                                   | .4   | .4    |       |       |       |       |       |       |       |       | 1.2        | 7.8                              | 8.0            |
| (S) 170-190            | .4                                   | .5   | 1.2   | .7    | .4    | .1    |       |       |       |       |       | 3.2        | 12.5                             | 13.0           |
| 200-220                | .4                                   | 1.0  | 5.0   | 4.0   | 2.1   | .4    | .1    |       |       |       |       | 13.0       | 14.8                             | 15.0           |
| 230-250                | .5                                   | 3.5  | 12.5  | 8.0   | 7.4   | .7    | .3    |       |       |       |       | 32.9       | 15.0                             | 14.0           |
| (W) 260-280            | 1.3                                  | 4.5  | 7.1   | 3.2   | 1.5   | .2    | .1    |       |       |       |       | 18.0       | 11.8                             | 10.0           |
| 290-310                | 1.2                                  | 1.6  | 2.8   | .6    | .1    |       | .1    |       |       |       |       | 6.3        | 9.6                              | 10.0           |
| 320-340                | 1.0                                  | .4   | .8    | .2    |       |       |       |       |       |       |       | 2.4        | 8.1                              | 8.0            |
| VARIABLE               | .2                                   | .4   |       |       |       |       |       |       |       |       |       | .5         | 5.3                              | 6.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 10.0       | //////////////////////////////// |                |
| TOTALS                 | 6.8                                  | 15.2 | 35.9  | 18.2  | 12.0  | 1.4   | .     |       |       |       |       | 100.0      | 11.6                             | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 1125

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | .3                   | 1.2  | .6    | .3    |       | .1    |       |       |       |       |       | 2.5        | 9.7          | 8.0            |
| 020-040                | .3                   | .3   | .9    | .3    |       | .1    |       |       |       |       |       | 1.8        | 10.9         | 10.0           |
| 050-070                | .3                   | .6   | 1.0   | .1    | .1    |       |       |       |       |       |       | 2.2        | 10.1         | 10.0           |
| (E) 080-100            | .1                   | .5   | .4    | .1    |       |       |       |       |       |       |       | 1.2        | 8.2          | 6.0            |
| 110-130                | .4                   | .4   | 1.4   | .1    |       |       |       |       |       |       |       | 2.3        | 9.8          | 10.0           |
| 140-160                | .1                   | .6   | .6    | .1    |       |       |       |       |       |       |       | 1.6        | 8.8          | 9.0            |
| (S) 170-190            |                      | .3   | 1.2   | 1.6   | .5    |       |       |       |       |       |       | 3.5        | 15.3         | 16.0           |
| 200-220                | .5                   | 1.8  | 4.9   | 4.9   | 3.2   | .3    |       |       |       |       |       | 15.7       | 15.0         | 16.0           |
| 230-250                | .5                   | 1.9  | 11.1  | 12.3  | 11.8  | 1.2   | .3    |       |       |       |       | 39.1       | 16.5         | 18.0           |
| (W) 260-280            | .4                   | 2.6  | 7.0   | 4.1   | 3.2   | .1    |       |       |       |       |       | 17.5       | 13.7         | 14.0           |
| 290-310                | .1                   | 1.2  | 1.9   | .3    | .1    |       |       |       |       |       |       | 3.6        | 10.3         | 10.0           |
| 320-340                | .3                   | .8   | 1.0   | .3    | .3    |       |       |       |       |       |       | 2.6        | 10.8         | 10.0           |
| VARIABLE               | .1                   | .3   |       |       |       |       |       |       |       |       |       | .4         | 5.3          | 6.0            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 6.2        | ////////     |                |
| TOTALS                 | 3.4                  | 12.5 | 32.0  | 24.5  | 19.2  | 1.8   | .3    |       |       |       |       | 100.0      | 13.5         | 14.0           |

TOTAL NUMBER OF OBSERVATIONS 773

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: ALL

|             |  | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       |                                  |      |        |
|-------------|--|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|------|--------|
| DIRECTION   |  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 | TOTAL                            | MEAN | MEDIAN |
| (DEGREES)   |  |                                      |      |       |       |       |       |       |       |       |       | %     | WIND                             | WIND |        |
| (N) 350-010 |  | .9                                   | 1.2  | .8    | .2    | .0    | .0    |       |       |       |       |       | 3.1                              | 7.9  | 6.0    |
| 020-040     |  | .8                                   | .9   | 1.7   | .3    | .0    | .0    |       |       |       |       |       | 3.7                              | 9.1  | 10.0   |
| 050-070     |  | .7                                   | 1.6  | 1.9   | .7    | .3    | .0    |       |       |       |       |       | 5.3                              | 10.4 | 10.0   |
| (E) 080-100 |  | .4                                   | .6   | .8    | .4    | .1    | .0    |       |       |       |       |       | 2.4                              | 10.4 | 10.0   |
| 110-130     |  | .5                                   | .7   | .8    | .1    | .0    |       |       |       |       |       |       | 2.1                              | 8.3  | 8.0    |
| 140-160     |  | .2                                   | .7   | .3    | .0    |       |       |       |       |       |       |       | 1.3                              | 8.0  | 8.0    |
| (S) 170-190 |  | 1.0                                  | 1.8  | 2.2   | 1.0   | .4    | .0    |       |       |       |       |       | 6.5                              | 10.5 | 10.0   |
| 200-220     |  | 1.0                                  | 2.1  | 5.7   | 2.7   | 1.8   | .2    | .0    |       |       |       |       | 13.5                             | 12.9 | 12.0   |
| 230-250     |  | 1.3                                  | 3.4  | 8.5   | 5.5   | 4.2   | .4    | .1    |       |       |       |       | 23.4                             | 13.9 | 14.0   |
| (W) 260-280 |  | 1.3                                  | 2.7  | 4.5   | 1.9   | 1.2   | .1    | .0    |       |       |       |       | 11.7                             | 11.7 | 10.0   |
| 290-310     |  | .7                                   | .9   | 1.3   | .3    | .1    |       | .0    |       |       |       |       | 3.3                              | 9.1  | 10.0   |
| 320-340     |  | .6                                   | .6   | .5    | .1    | .0    |       |       |       |       |       |       | 1.8                              | 7.7  | 7.0    |
| VARIABLE    |  | .3                                   | .3   |       |       |       |       |       |       |       |       |       | .6                               | 4.7  | 4.0    |
| CALM        |  | //////////////////////////////////// |      |       |       |       |       |       |       |       |       | 21.3  | //////////////////////////////// |      |        |
| TOTALS      |  | 9.7                                  | 17.5 | 29.0  | 13.2  | 8.1   | .7    | .1    |       |       |       |       | 100.0                            | 9.2  | 10.0   |

TOTAL NUMBER OF OBSERVATIONS 4934

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65      |              |                |
| (N) 350-010            | .6                   |      | .6    | .6    |       |       |       |       |       |       | 1.8        | 10.7         | 10.0           |
| 020-040                |                      | .6   | .6    |       |       |       |       |       |       |       | 1.2        | 10.0         | 10.0           |
| 050-070                |                      | .6   | 2.5   | .6    |       |       |       |       |       |       | 3.7        | 11.0         | 10.0           |
| (E) 080-100            | .6                   | 1.8  | .6    |       | .6    |       |       |       |       |       | 3.7        | 9.0          | 7.0            |
| 110-130                | 1.8                  | 1.2  |       |       |       |       |       |       |       |       | 3.1        | 4.8          | 4.0            |
| 140-160                |                      | 1.8  |       |       |       |       |       |       |       |       | 1.8        | 7.3          | 8.0            |
| (S) 170-190            | .6                   | 1.8  | 4.9   | 3.1   | 1.2   |       |       |       |       |       | 11.7       | 12.4         | 12.0           |
| 200-220                | 1.8                  | 2.5  | 9.8   | 4.3   | 5.5   |       |       |       |       |       | 23.9       | 13.6         | 14.0           |
| 230-250                | .6                   | 4.3  | 8.6   | 4.9   | 5.5   |       |       |       |       |       | 23.9       | 14.4         | 14.0           |
| (W) 260-280            | .6                   |      | 1.8   | 1.8   | 1.2   |       |       |       |       |       | 5.5        | 14.9         | 16.0           |
| 290-310                |                      |      | .6    |       |       | .6    |       |       |       |       | 1.2        | 21.0         | 18.5           |
| 320-340                |                      | .6   |       |       |       |       |       |       |       |       | .6         | 8.0          | 8.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       | 17.8       | ////////     |                |
| TOTALS                 | 6.6                  | 15.2 | 30.0  | 15.3  | 14.0  |       | .6    |       |       |       | 100.0      | 10.6         | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 163

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 06-08

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | .3                                   | 1.0  | .1    |       |       |       |       |       |       |       |       | 1.5        | 6.9                              | 6.0            |
| 020-040                | .7                                   | 1.2  | .7    |       |       |       |       |       |       |       |       | 2.6        | 6.8                              | 6.0            |
| 050-070                | 1.0                                  | 2.9  | 2.0   | .3    |       |       |       |       |       |       |       | 6.3        | 8.1                              | 8.0            |
| (E) 080-100            | 1.5                                  | 1.8  | .4    |       |       |       |       |       |       |       |       | 3.6        | 5.7                              | 6.0            |
| 110-130                | .6                                   | 1.0  | .6    |       |       |       |       |       |       |       |       | 2.2        | 6.8                              | 6.0            |
| 140-160                | 1.6                                  | 2.3  | .3    |       |       |       |       |       |       |       |       | 4.2        | 5.6                              | 6.0            |
| (S) 170-190            | 3.6                                  | 7.3  | 4.5   | .1    |       |       |       |       |       |       |       | 15.6       | 7.4                              | 8.0            |
| 200-220                | 1.6                                  | 3.2  | 4.7   | .9    | .1    |       |       |       |       |       |       | 10.5       | 9.2                              | 10.0           |
| 230-250                | 1.3                                  | 1.9  | 1.8   | .3    |       |       |       |       |       |       |       | 5.3        | 8.2                              | 7.0            |
| (W) 260-280            | .4                                   | .3   | .7    | .3    |       |       |       |       |       |       |       | 1.8        | 9.3                              | 10.0           |
| 290-310                | .3                                   |      | .1    |       |       |       |       |       |       |       |       | .4         | 6.7                              | 4.0            |
| 320-340                | .3                                   |      |       |       |       |       |       |       |       |       |       | .3         | 4.0                              | 4.0            |
| VARIABLE               | .1                                   | .1   |       |       |       |       |       |       |       |       |       | .3         | 3.5                              | 3.5            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 45.4       | //////////////////////////////// |                |
| TOTALS                 | 13.3                                 | 23.0 | 15.9  | 1.9   | .1    |       |       |       |       |       |       | 100.0      | 4.2                              | 8.0            |

TOTAL NUMBER OF OBSERVATIONS 685

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 2.4                                  | 2.3  | .6    | .1    | .1    |       |       |       |       |       |       | 5.4        | 6.3                              | 6.0            |
| 020-040                | .9                                   | 2.4  | 3.0   | .4    |       |       |       |       |       |       |       | 6.6        | 9.2                              | 10.0           |
| 050-070                | .6                                   | 3.4  | 3.3   | .5    | .1    |       |       |       |       |       |       | 8.0        | 9.3                              | 8.5            |
| (E) 080-100            | .8                                   | .8   | .6    | .1    |       |       |       |       |       |       |       | 2.4        | 7.2                              | 8.0            |
| 110-130                | .1                                   |      | .4    |       |       |       |       |       |       |       |       | .5         | 8.4                              | 10.0           |
| 140-160                | .3                                   | .3   | .3    |       | .1    |       |       |       |       |       |       | .9         | 9.6                              | 8.0            |
| (S) 170-190            | 1.8                                  | 1.5  | 2.8   | .3    | .1    |       |       |       |       |       |       | 6.5        | 8.5                              | 8.5            |
| 200-220                | 1.6                                  | 3.3  | 6.7   | 1.9   | .3    |       |       |       |       |       |       | 13.8       | 10.4                             | 10.0           |
| 230-250                | 1.7                                  | 4.3  | 5.4   | .9    | .2    | .1    |       |       |       |       |       | 12.5       | 9.6                              | 10.0           |
| (W) 260-280            | .9                                   | 2.4  | 1.8   | .2    |       |       |       |       |       |       |       | 5.3        | 8.1                              | 8.0            |
| 290-310                | .8                                   | 1.2  | .5    |       |       |       |       |       |       |       |       | 2.5        | 6.6                              | 6.0            |
| 320-340                | 1.5                                  | 1.0  | .2    | .2    | .1    |       |       |       |       |       |       | 2.9        | 6.4                              | 4.5            |
| VARIABLE               | .1                                   | .2   |       |       |       |       |       |       |       |       |       | .3         | 4.7                              | 5.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 32.4       | //////////////////////////////// |                |
| TOTALS                 | 13.5                                 | 23.1 | 25.6  | 4.6   | 1.0   | .1    |       |       |       |       |       | 100.0      | 6.0                              | 8.0            |

TOTAL NUMBER OF OBSERVATIONS 1102

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB. SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 1.1                                  | 2.3  | 1.8   |       |       |       |       |       |       |       |       | 5.1        | 7.6          | 8.0            |
| 020-040                | .8                                   | 1.2  | 1.6   | .3    | .1    |       |       |       |       |       |       | 3.9        | 9.0          | 9.0            |
| 050-070                | .5                                   | .9   | 1.5   |       | .5    |       |       |       |       |       |       | 3.3        | 10.0         | 10.0           |
| (E) 080-100            | .4                                   | .9   | 1.6   | .4    |       |       |       |       |       |       |       | 3.3        | 10.2         | 12.0           |
| 110-130                | .5                                   | .6   | .5    | .4    | .2    |       |       |       |       |       |       | 2.2        | 10.4         | 9.0            |
| 140-160                | .1                                   | .2   | .1    |       |       |       |       |       |       |       |       | .4         | 6.5          | 7.0            |
| (S) 170-190            | .6                                   | .7   | 1.3   | .1    |       |       |       |       |       |       |       | 2.7        | 8.8          | 10.0           |
| 200-220                | .6                                   | 2.1  | 4.5   | 2.4   | .5    | .1    |       |       |       |       |       | 10.1       | 12.3         | 12.0           |
| 230-250                | 1.5                                  | 5.4  | 10.9  | 5.2   | 1.2   | .1    |       |       |       |       |       | 24.3       | 11.8         | 12.0           |
| (W) 260-280            | 1.7                                  | 6.3  | 7.1   | 1.3   | .4    |       |       |       |       |       |       | 16.7       | 9.5          | 10.0           |
| 290-310                | 1.3                                  | 1.9  | 1.9   | .1    |       |       |       |       |       |       |       | 5.1        | 7.8          | 7.0            |
| 320-340                | 1.5                                  | 2.3  | .8    | .1    |       |       |       |       |       |       |       | 4.6        | 6.6          | 6.0            |
| VARIABLE               | .2                                   |      | .1    | .1    |       |       |       |       |       |       |       | .4         | 9.0          | 7.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 17.7       | ////////     |                |
| TOTALS                 | 10.8                                 | 24.8 | 33.7  | 10.4  | 2.9   | .2    |       |       |       |       |       | 100.0      | 8.4          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1015

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 15-17

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | .3                                   | 1.1  | 1.0   | .1    |       |       |       |       |       |       |       | 2.6        | 8.4                              | 8.0            |
| 020-040                          | .2                                   | 1.6  | .8    |       |       |       |       |       |       |       |       | 2.7        | 8.0                              | 8.0            |
| 050-070                          | .6                                   | .5   | 1.0   | .5    | .3    |       |       |       |       |       |       | 3.0        | 10.8                             | 10.0           |
| (E) 080-100                      |                                      | .1   | .7    | .5    | .1    |       |       |       |       |       |       | 1.4        | 13.3                             | 13.0           |
| 110-130                          |                                      | .5   | .8    | .5    | .1    |       |       |       |       |       |       | 1.9        | 12.3                             | 12.0           |
| 140-160                          | .1                                   | .4   | .1    |       |       |       |       |       |       |       |       | .6         | 7.8                              | 8.0            |
| (S) 170-190                      | .1                                   | .9   | 1.3   | .1    |       |       |       |       |       |       |       | 2.5        | 9.8                              | 10.0           |
| 200-220                          | .5                                   | 1.9  | 3.6   | 3.1   | 1.1   | .4    |       |       |       |       |       | 10.6       | 13.4                             | 14.0           |
| 230-250                          | .8                                   | 4.4  | 12.6  | 9.8   | 5.6   | .8    | .1    |       |       |       |       | 34.1       | 14.5                             | 14.0           |
| (W) 260-280                      | 1.4                                  | 4.7  | 9.8   | 5.3   | 1.2   |       |       |       |       |       |       | 22.5       | 12.1                             | 12.0           |
| 290-310                          | 1.7                                  | 1.4  | 3.2   | .5    |       |       |       |       |       |       |       | 6.8        | 8.9                              | 10.0           |
| 320-340                          | .4                                   | .9   | 1.3   |       |       |       |       |       |       |       |       | 2.7        | 8.7                              | 9.5            |
| VARIABLE                         | .1                                   | .4   | .1    |       |       |       |       |       |       |       |       | .6         | 6.0                              | 5.5            |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 8.1        | //////////////////////////////// |                |
| TOTALS                           | 6.2                                  | 18.8 | 36.3  | 20.4  | 8.4   | 1.2   | .1    |       |       |       |       | 100.0      | 11.4                             | 12.0           |
| TOTAL NUMBER OF OBSERVATIONS 979 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | .4                                   | .6   | .1    |       |       |       |       |       |       |       |       | 1.2        | 5.5                              | 6.0            |
| 020-040                | .3                                   | .4   | .1    |       |       |       |       |       |       |       |       | .9         | 6.3                              | 6.0            |
| 050-070                | .9                                   | .1   | .6    |       |       |       |       |       |       |       |       | 1.6        | 6.9                              | 4.0            |
| (E) 080-100            | .6                                   | .6   | 1.5   | .1    | .1    |       |       |       |       |       |       | 2.9        | 9.6                              | 10.0           |
| 110-130                | .1                                   | .4   | 1.2   | .1    |       |       |       |       |       |       |       | 1.9        | 10.0                             | 10.0           |
| 140-160                |                                      |      | .7    |       |       |       |       |       |       |       |       | .7         | 10.8                             | 10.0           |
| (S) 170-190            |                                      |      | 1.2   | .4    |       |       |       |       |       |       |       | 1.6        | 13.3                             | 14.0           |
| 200-220                | .4                                   | .9   | 2.9   | 3.2   | 3.2   | .1    | .1    |       |       |       |       | 11.1       | 15.8                             | 16.0           |
| 230-250                | .1                                   | 2.1  | 11.7  | 18.3  | 11.4  | .6    | .3    |       |       |       |       | 44.4       | 16.5                             | 16.0           |
| (W) 260-280            | .3                                   | 3.8  | 9.9   | 7.7   | 1.8   | .1    |       |       |       |       |       | 23.6       | 13.6                             | 14.0           |
| 290-310                | .3                                   | 1.3  | 1.2   | .6    | .1    |       |       |       |       |       |       | 3.5        | 10.3                             | 10.0           |
| 320-340                | .1                                   | .4   | .1    | .3    |       |       |       |       |       |       |       | 1.0        | 10.0                             | 8.0            |
| VARIABLE               | .3                                   |      |       |       |       |       |       |       |       |       |       | .3         | 4.0                              | 4.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 5.2        | //////////////////////////////// |                |
| TOTALS                 | 3.8                                  | 10.6 | 31.2  | 30.7  | 16.6  | .8    | .4    |       |       |       |       | 100.0      | 13.8                             | 15.0           |

TOTAL NUMBER OF OBSERVATIONS 678

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: ALL

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|-----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                   | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                       | 1.0                                  | 1.6  | .8    | .0    | .0    |       |       |       |       |       |       | 3.5        | 7.1          | 6.0            |
| 020-040                           | .6                                   | 1.5  | 1.4   | .2    | .0    |       |       |       |       |       |       | 3.7        | 8.6          | 8.0            |
| 050-070                           | .7                                   | 1.6  | 1.8   | .3    | .2    |       |       |       |       |       |       | 4.6        | 9.3          | 8.0            |
| (E) 080-100                       | .6                                   | .8   | 1.0   | .2    | .0    |       |       |       |       |       |       | 2.6        | 8.9          | 8.0            |
| 110-130                           | .2                                   | .5   | .7    | .2    | .1    |       |       |       |       |       |       | 1.7        | 9.9          | 10.0           |
| 140-160                           | .4                                   | .6   | .3    |       | .0    |       |       |       |       |       |       | 1.2        | 7.1          | 6.0            |
| (S) 170-190                       | 1.2                                  | 1.9  | 2.2   | .2    | .0    |       |       |       |       |       |       | 5.4        | 8.4          | 8.0            |
| 200-220                           | 1.0                                  | 2.3  | 4.6   | 2.3   | .9    | .1    | .0    |       |       |       |       | 11.3       | 12.0         | 12.0           |
| 230-250                           | 1.2                                  | 3.9  | 8.6   | 6.4   | 3.3   | .3    | .1    |       |       |       |       | 23.7       | 13.6         | 14.0           |
| (W) 260-280                       | 1.0                                  | 3.7  | 5.8   | 2.7   | .     | .0    |       |       |       |       |       | 13.9       | 11.3         | 12.0           |
| 290-310                           | 1.0                                  | 1.2  | 1.5   | .2    | .0    |       |       |       |       |       |       | 3.9        | 8.3          | 8.0            |
| 320-340                           | .9                                   | 1.0  | .5    | .1    | .0    |       |       |       |       |       |       | 2.6        | 7.2          | 6.0            |
| VARIABLE                          | .2                                   | .2   | .0    | .0    |       |       |       |       |       |       |       | .4         | 5.9          | 5.0            |
| CALM                              | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 21.6       | ////////     |                |
| TOTALS                            | 10.0                                 | 20.8 | 29.2  | 12.8  | 5.1   | .4    | .1    |       |       |       |       | 100.0      | 8.6          | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 4459 |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |          |          |          |          |          |          |          |          |          |          | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|--------------|----------------|
|                        | 1-4                 | 5-9      | 10-14    | 15-19    | 20-24    | 25-29    | 30-34    | 35-39    | 40-49    | 50-64    | GE 65    |            |              |                |
| (N) 350-010            |                     |          |          |          |          |          |          |          |          |          |          |            |              |                |
| 020-040                |                     |          |          |          |          |          |          |          |          |          |          |            |              |                |
| 050-070                |                     |          | .6       |          |          |          |          |          |          |          |          | .6         | 10.0         | 10.0           |
| (E) 080-100            |                     |          |          |          |          |          |          |          |          |          |          |            |              |                |
| 110-130                | .6                  |          |          |          |          |          |          |          |          |          |          | .6         | 2.0          | 2.0            |
| 140-160                | .6                  | 1.1      | .6       |          |          |          |          |          |          |          |          | 2.3        | 7.0          | 7.0            |
| (S) 170-190            | 2.9                 | 4.0      | 6.9      | .6       |          |          |          |          |          |          |          | 14.3       | 9.0          | 10.0           |
| 200-220                | 1.1                 | 5.7      | 14.9     | 4.6      |          |          |          |          |          |          |          | 26.3       | 10.9         | 10.0           |
| 230-250                | 2.3                 | 4.0      | 9.1      | 2.3      | 1.1      | .6       |          |          |          |          |          | 19.4       | 11.9         | 12.0           |
| (W) 260-280            | 1.1                 | 1.7      | 4.0      | .6       |          |          |          |          |          |          |          | 7.4        | 10.1         | 10.0           |
| 290-310                |                     |          | 1.1      |          |          |          |          |          |          |          |          | 1.1        | 10.0         | 10.0           |
| 320-340                | 1.1                 | 1.1      |          |          |          |          |          |          |          |          |          | 2.3        | 5.0          | 5.0            |
| VARIABLE               |                     |          |          |          |          |          |          |          |          |          |          |            |              |                |
| CALM                   | ////////            | //////// | //////// | //////// | //////// | //////// | //////// | //////// | //////// | //////// | //////// | 25.7       | ////////     | ////////       |
| TOTALS                 | 9.7                 | 17.6     | 37.2     | 8.1      | 1.1      | .6       |          |          |          |          |          | 100.0      | 7.7          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 175

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 1.5                                  | .7   |       |       |       |       |       |       |       |       |       | 2.2        | 4.6          | 4.0            |
| 020-040                          | .7                                   | 2.2  | 1.2   |       |       |       |       |       |       |       |       | 4.1        | 7.6          | 8.0            |
| 050-070                          | 1.9                                  | 3.0  | 1.4   | .3    |       |       |       |       |       |       |       | 6.6        | 6.8          | 6.0            |
| (E) 080-100                      | 2.8                                  | 1.1  | .6    |       |       |       |       |       |       |       |       | 4.4        | 5.1          | 4.0            |
| 110-130                          | 1.9                                  | 2.2  | .3    |       |       |       |       |       |       |       |       | 4.4        | 5.8          | 6.0            |
| 140-160                          | 1.9                                  | 1.5  | .3    |       |       |       |       |       |       |       |       | 3.7        | 5.2          | 4.0            |
| (S) 170-190                      | 2.8                                  | 4.4  | 4.4   | .8    |       |       |       |       |       |       |       | 12.4       | 8.1          | 8.0            |
| 200-220                          | .8                                   | 4.1  | 5.9   | .4    | .1    |       |       |       |       |       |       | 11.4       | 9.5          | 10.0           |
| 230-250                          | .8                                   | 1.5  | 1.5   | .1    |       |       |       |       |       |       |       | 4.0        | 8.1          | 6.0            |
| (W) 260-280                      | .3                                   | .1   | .1    |       |       |       |       |       |       |       |       | .6         | 5.5          | 5.0            |
| 290-310                          | .1                                   | .1   | .1    |       |       |       |       |       |       |       |       | .4         | 8.0          | 8.0            |
| 320-340                          | .1                                   | .3   | .1    |       |       |       |       |       |       |       |       | .6         | 7.0          | 6.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 45.3       | ////////     |                |
| TOTALS                           | 15.6                                 | 21.2 | 15.9  | 1.6   | .1    |       |       |       |       |       |       | 100.0      | 4.0          | 6.0            |
| TOTAL NUMBER OF OBSERVATIONS 727 |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010            | 2.7                                  | 2.3  | 1.4   | .1    |       |       |       |       |       |       |            | 6.5          | 6.4                              | 6.0   |
| 020-040                | 1.5                                  | 2.7  | 2.7   | .1    | .2    |       |       |       |       |       |            | 7.3          | 7.9                              | 8.0   |
| 050-070                | .8                                   | 3.6  | 3.7   | .3    | .2    |       |       |       |       |       |            | 8.5          | 9.1                              | 8.5   |
| (E) 080-100            | .8                                   | .8   | 1.0   | .5    |       |       |       |       |       |       |            | 3.1          | 8.9                              | 9.0   |
| 110-130                | .2                                   | .3   |       |       |       |       |       |       |       |       |            | .4           | 5.2                              | 6.0   |
| 140-160                |                                      | .1   | .3    |       |       |       |       |       |       |       |            | .3           | 10.0                             | 10.0  |
| (S) 170-190            | 1.9                                  | 1.9  | 1.6   | .4    |       |       |       |       |       |       |            | 5.8          | 7.7                              | 6.0   |
| 200-220                | 1.9                                  | 3.4  | 5.4   | 1.7   | .3    |       |       |       |       |       |            | 12.6         | 9.9                              | 10.0  |
| 230-250                | 1.3                                  | 2.7  | 4.3   | 1.1   | .1    |       |       |       |       |       |            | 9.5          | 9.7                              | 10.   |
| (W) 260-280            | 1.6                                  | 2.6  | 1.5   | .2    |       |       |       |       |       |       |            | 5.8          | 7.2                              | 6.0   |
| 290-310                | .6                                   | 1.0  | .3    |       |       |       |       |       |       |       |            | 2.0          | 6.3                              | 6.0   |
| 320-340                | 1.2                                  | .7   | .3    |       |       |       |       |       |       |       |            | 2.2          | 5.5                              | 4.0   |
| VARIABLE               | .2                                   | .2   | .1    |       |       |       |       |       |       |       |            | .4           | 5.4                              | 5.0   |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 35.5         | //////////////////////////////// |       |
| TOTALS                 | 14.7                                 | 22.3 | 22.6  | 4.4   | .8    |       |       |       |       |       |            | 100.0        | 5.4                              | 8.0   |

TOTAL NUMBER OF OBSERVATIONS 1171

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010            | 1.2                  | 2.1  | 1.5   | .1    |       |       |       |       |       |       |       | 4.9        | 7.6              | 7.0            |
| 020-040                | .9                   | .8   | 1.3   | .4    |       |       |       |       |       |       |       | 3.5        | 8.9              | 8.0            |
| 050-070                | .4                   | 1.8  | 1.2   | .4    | .4    |       |       |       |       |       |       | 4.1        | 9.9              | 8.0            |
| (E) 080-100            | .4                   | .2   | 1.1   | .4    | .3    |       |       |       |       |       |       | 2.3        | 12.2             | 14.0           |
| 110-130                | .3                   | .2   | .6    |       |       |       |       |       |       |       |       | 1.0        | 8.7              | 10.0           |
| 140-160                |                      | .2   | .1    | .1    |       |       |       |       |       |       |       | .4         | 10.0             | 8.0            |
| (S) 170-190            | .5                   | 1.5  | .7    | .3    |       |       |       |       |       |       |       | 3.0        | 8.2              | 7.0            |
| 200-220                | .8                   | 1.6  | 4.5   | 2.7   | .5    |       |       |       |       |       |       | 10.1       | 11.8             | 12.0           |
| 230-250                | 1.6                  | 4.6  | 9.2   | 3.5   | .7    | .2    |       |       |       |       |       | 19.9       | 11.2             | 10.0           |
| (W) 260-280            | 1.5                  | 5.8  | 6.9   | .6    | .4    |       |       |       |       |       |       | 15.1       | 9.2              | 10.0           |
| 290-310                | 1.8                  | 3.1  | 1.3   | .3    |       |       |       |       |       |       |       | 6.4        | 6.9              | 6.0            |
| 320-340                | 1.8                  | 2.0  | .6    | .1    |       |       |       |       |       |       |       | 4.4        | 6.1              | 6.0            |
| VARIABLE               | .4                   | .3   | .1    |       |       |       |       |       |       |       |       | .7         | 5.0              | 4.5            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 24.1       | //////////////// |                |
| TOTALS                 | 11.6                 | 24.2 | 29.1  | 8.9   | 2.3   | .2    |       |       |       |       |       | 100.0      | 7.3              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1071

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | .1                                   | 1.1  | 1.6   |       |       |       |       |       |       |       |       | 2.8        | 9.1                              | 10.0           |
| 020-040                | .3                                   | .4   | 1.2   | .4    |       |       |       |       |       |       |       | 2.2        | 10.5                             | 10.0           |
| 050-070                | .2                                   | .3   | 1.6   | .6    |       |       |       |       |       |       |       | 2.6        | 11.3                             | 10.0           |
| (E) 080-100            | .4                                   | .5   | 1.6   | .6    | .2    |       |       |       |       |       |       | 3.2        | 11.6                             | 12.0           |
| 110-130                | .4                                   | .2   | .5    | .1    | .1    |       |       |       |       |       |       | 1.2        | 9.5                              | 10.0           |
| 140-160                |                                      | .2   | .3    | .1    |       |       |       |       |       |       |       | .6         | 10.0                             | 10.0           |
| (S) 170-190            | .4                                   | .6   | .8    | .4    | .1    |       |       |       |       |       |       | 2.2        | 10.1                             | 10.0           |
| 200-220                | .5                                   | .7   | 3.3   | 2.4   | 1.6   | .2    | .1    |       |       |       |       | 8.7        | 14.6                             | 14.0           |
| 230-250                | .6                                   | 3.5  | 12.1  | 7.7   | 3.6   | .2    |       |       |       |       |       | 27.8       | 13.5                             | 14.0           |
| (W) 260-280            | 1.0                                  | 5.4  | 14.3  | 6.6   | .7    | .1    |       |       |       |       |       | 28.2       | 12.0                             | 12.0           |
| 290-310                | 1.1                                  | 3.1  | 2.9   | .5    | .2    |       |       |       |       |       |       | 7.7        | 9.2                              | 8.0            |
| 320-340                | .4                                   | 1.7  | 1.2   |       |       |       |       |       |       |       |       | 3.2        | 7.9                              | 8.0            |
| VARIABLE               | .3                                   | .4   | .1    |       |       |       |       |       |       |       |       | .7         | 5.6                              | 5.5            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 8.9        | //////////////////////////////// |                |
| TOTALS                 | 5.7                                  | 18.1 | 41.5  | 19.4  | 6.5   | .5    | .1    |       |       |       |       | 100.0      | 11.0                             | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 1087

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |     |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                                  | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | .1                                   | .4  | .9    | .1    |       |       |       |       |       |       |       | 1.6        | 10.8         | 11.0           |
| 020-040                | .1                                   | .1  | 1.2   | .1    |       |       |       |       |       |       |       | 1.6        | 9.8          | 10.0           |
| 050-070                | .1                                   | .4  | .9    | .1    | .1    |       |       |       |       |       |       | 1.7        | 10.9         | 10.0           |
| (E) 080-100            |                                      | .4  | 1.0   |       | .1    |       |       |       |       |       |       | 1.6        | 11.0         | 10.0           |
| 110-130                | .1                                   | .3  | .5    | .9    |       |       |       |       |       |       |       | 1.8        | 13.1         | 14.5           |
| 140-160                | .1                                   | .3  | .3    | .1    |       |       |       |       |       |       |       | .8         | 9.0          | 9.0            |
| (S) 170-190            |                                      | .1  | .5    | .3    |       |       |       |       |       |       |       | .9         | 12.3         | 12.0           |
| 200-220                |                                      | .5  | 2.2   | 2.8   | 2.0   | .1    |       |       |       |       |       | 7.6        | 15.9         | 16.0           |
| 230-250                | .7                                   | 1.6 | 12.6  | 18.1  | .5    | .4    |       |       |       |       |       | 41.9       | 15.9         | 16.0           |
| (W) 260-280            | 1.3                                  | 2.9 | 14.2  | 8.8   | 3.0   |       |       |       |       |       |       | 30.2       | 13.5         | 14.0           |
| 290-310                | .1                                   | 1.4 | 3.3   | .4    |       |       |       |       |       |       |       | 5.2        | 10.7         | 10.0           |
| 320-340                | .1                                   | 1.0 | .3    | .1    | .3    |       |       |       |       |       |       | 1.8        | 9.3          | 6.0            |
| VARIABLE               |                                      |     |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////////////////////// |     |       |       |       |       |       |       |       |       |       | 3.3        | ////////     |                |
| TOTALS                 | 2.7                                  | 9.4 | 37.9  | 31.8  | 14.0  | .5    |       |       |       |       |       | 100.0      | 13.8         | 14.0           |

TOTAL NUMBER OF OBSERVATIONS 762

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: ALL

| DIRECTION  <br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL | MEAN     | MEDIAN |
|--------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
|                          | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |       |          |        |
| (N) 350-010              | 1.2                  | 1.5  | 1.2   | .1    |       |       |       |       |       |       |       | 3.9   | 7.3      | 6.0    |
| 020-040                  | .8                   | 1.3  | 1.6   | .2    | .0    |       |       |       |       |       |       | 3.9   | 8.5      | 8.0    |
| 050-070                  | .6                   | 1.8  | 1.9   | .4    | .1    |       |       |       |       |       |       | 4.8   | 9.1      | 8.0    |
| (E) 080-100              | .8                   | .6   | 1.1   | .4    | .1    |       |       |       |       |       |       | 2.9   | 9.5      | 10.0   |
| 110-130                  | .5                   | .5   | .4    | .2    | .0    |       |       |       |       |       |       | 1.6   | 8.2      | 6.0    |
| 140-160                  | .3                   | .4   | .2    | .1    |       |       |       |       |       |       |       | 1.0   | 7.1      | 6.0    |
| (S) 170-190              | 1.1                  | 1.6  | 1.5   | .4    | .0    |       |       |       |       |       |       | 4.6   | 8.3      | 8.0    |
| 200-220                  | .9                   | 2.1  | 4.3   | 2.1   | .9    | .1    | .0    |       |       |       |       | 10.2  | 11.9     | 12.0   |
| 230-250                  | 1.0                  | 2.9  | 8.1   | 5.7   | 2.3   | .1    |       |       |       |       |       | 2.2   | 13.2     | 14.0   |
| (W) 260-280              | 1.2                  | 3.6  | 7.4   | 3.1   | .7    | .0    |       |       |       |       |       | 16.0  | 11.4     | 12.0   |
| 290-310                  | .8                   | 1.9  | 1.6   | .2    | .0    |       |       |       |       |       |       | 4.5   | 8.4      | 8.0    |
| 320-340                  | .8                   | 1.2  | .5    | .0    | .0    |       |       |       |       |       |       | 2.6   | 6.9      | 6.0    |
| VARIABLE                 | .2                   | .2   | .1    |       |       |       |       |       |       |       |       | .4    | 5.3      | 5.0    |
| CALM                     | //////////////////// |      |       |       |       |       |       |       |       |       |       | 23.3  | //////// |        |
| TOTALS                   | 10.2                 | 19.6 | 29.9  | 12.9  | 4.1   | .2    |       |       |       |       |       | 100.0 | 8.2      | 10.0   |

TOTAL NUMBER OF OBSERVATIONS 4818

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.5                                  |      |       |       |       |       |       |       |       |       |       | 1.5        | 3.0                              | 3.0            |
| 020-040                |                                      | .8   | 1.5   |       |       |       |       |       |       |       |       | 2.3        | 10.7                             | 12.0           |
| 050-070                |                                      | 1.5  | 1.5   |       |       |       |       |       |       |       |       | 3.0        | 9.0                              | 9.0            |
| (E) 080-100            |                                      | .8   |       |       |       |       |       |       |       |       |       | .8         | 6.0                              | 6.0            |
| 110-130                | .8                                   |      |       |       |       |       |       |       |       |       |       | .8         | 4.0                              | 4.0            |
| 140-160                | 1.5                                  |      | 2.3   |       |       |       |       |       |       |       |       | 3.8        | 7.0                              | 10.0           |
| (S) 170-190            | 1.5                                  | 1.5  | 2.3   | .8    |       |       |       |       |       |       |       | 6.0        | 9.0                              | 8.0            |
| 200-220                | 3.8                                  | 6.0  | 10.5  | 6.8   |       |       |       |       |       |       |       | 27.1       | 10.6                             | 10.0           |
| 230-250                | 2.3                                  | 2.3  | 8.3   |       | .8    |       |       |       |       |       |       | 13.5       | 10.3                             | 11.0           |
| (W) 260-280            |                                      | 3.8  | 1.5   |       | .8    |       |       |       |       |       |       | 6.0        | 9.1                              | 7.0            |
| 290-310                | .8                                   |      |       |       |       |       |       |       |       |       |       | .8         | 4.0                              | 4.0            |
| 320-340                | 1.5                                  |      |       |       |       |       |       |       |       |       |       | 1.5        | 4.0                              | 4.0            |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 33.1       | //////////////////////////////// |                |
| TOTALS                 | 13.7                                 | 16.7 | 27.9  | 7.6   | 1.6   |       |       |       |       |       |       | 100.0      | 6.3                              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 133

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: 06-08

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.2                                  | .9   |       |       |       |       |       |       |       |       |       | 2.1        | 4.9                              | 4.0            |
| 020-040                | 1.2                                  | 2.2  | .8    |       |       | .1    |       |       |       |       |       | 4.3        | 7.1                              | 6.0            |
| 050-070                | 2.2                                  | 2.3  | 1.7   |       | .1    |       |       |       |       |       |       | 6.3        | 7.3                              | 6.0            |
| (E) 080-100            | 2.4                                  | 1.9  | .4    | .1    |       |       |       |       |       |       |       | 4.9        | 5.8                              | 4.5            |
| 110-130                | 3.0                                  | 2.3  |       |       |       |       |       |       |       |       |       | 5.3        | 5.0                              | 4.0            |
| 140-160                | 1.5                                  | 1.3  | .3    |       |       |       |       |       |       |       |       | 3.1        | 5.3                              | 4.5            |
| (S) 170-190            | 3.1                                  | 4.9  | 4.3   | .1    |       |       |       |       |       |       |       | 12.4       | 7.5                              | 8.0            |
| 200-220                | 1.7                                  | 4.8  | 3.5   | .1    | .1    |       |       |       |       |       |       | 10.2       | 7.9                              | 8.0            |
| 230-250                | 1.2                                  | 1.2  | .6    |       |       |       |       |       |       |       |       | 3.0        | 6.3                              | 5.0            |
| (W) 260-280            | .4                                   | 1.2  | .3    |       |       |       |       |       |       |       |       | 1.8        | 5.9                              | 6.0            |
| 290-310                | .9                                   | .4   |       |       |       |       |       |       |       |       |       | 1.3        | 4.2                              | 4.0            |
| 320-340                |                                      | .3   |       |       |       |       |       |       |       |       |       | .3         | 5.5                              | 5.5            |
| VARIABLE               |                                      | .3   |       |       |       |       |       |       |       |       |       | .3         | 7.0                              | 7.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 45.0       | //////////////////////////////// |                |
| TOTALS                 | 18.8                                 | 24.0 | 11.9  | .3    | .2    | .1    |       |       |       |       |       | 100.0      | 3.7                              | 6.0            |

TOTAL NUMBER OF OBSERVATIONS 776

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 3.9                                  | 2.0  | 1.4   |       |       |       |       |       |       |       |       | 7.3        | 5.7                              | 4.0            |
| 020-040                | 1.6                                  | 2.8  | 3.0   | .3    | .1    |       |       |       |       |       |       | 7.8        | 8.5                              | 8.0            |
| 050-070                | 1.8                                  | 2.3  | 2.6   | .3    | .3    | .3    | .1    |       |       |       |       | 7.7        | 9.6                              | 8.0            |
| (E) 080-100            | .8                                   | .3   | .3    | .3    | .2    |       |       |       |       |       |       | 1.9        | 8.6                              | 6.0            |
| 110-130                | .3                                   | .3   | .2    | .1    |       |       |       |       |       |       |       | .8         | 7.6                              | 6.0            |
| 140-160                | .3                                   | .3   | .2    |       |       |       |       |       |       |       |       | .8         | 6.7                              | 6.0            |
| (S) 170-190            | 1.3                                  | 2.2  | 1.8   | .2    |       |       |       |       |       |       |       | 5.5        | 8.0                              | 6.0            |
| 200-220                | 1.3                                  | 3.0  | 5.6   | 1.7   | .5    |       |       |       |       |       |       | 12.1       | 10.4                             | 10.0           |
| 230-250                | 2.3                                  | 3.5  | 2.9   | .3    | .3    |       |       |       |       |       |       | 9.2        | 7.9                              | 6.0            |
| (W) 260-280            | 1.2                                  | 1.2  | .8    | .2    |       |       |       |       |       |       |       | 3.3        | 6.9                              | 6.0            |
| 290-310                | .9                                   | .8   | .3    |       |       |       |       |       |       |       |       | 2.0        | 6.1                              | 5.5            |
| 320-340                | 1.4                                  | .8   | .3    | .1    |       |       |       |       |       |       |       | 2.6        | 5.6                              | 4.0            |
| VARIABLE               | .3                                   | .3   |       |       |       |       |       |       |       |       |       | .7         | 4.9                              | 4.5            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 38.4       | //////////////////////////////// |                |
| TOTALS                 | 17.4                                 | 19.8 | 19.4  | 3.5   | 1.4   | .3    | .1    |       |       |       |       | 100.0      | 5.0                              | 8.0            |

TOTAL NUMBER OF OBSERVATIONS 1192

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 2.0                                  | 2.2  | 2.0   | .2    |       |       |       |       |       |       |       | 6.5        | 7.3          | 6.0            |
| 020-040                | .8                                   | 1.5  | 1.8   | .3    | .1    |       |       |       |       |       |       | 4.4        | 9.1          | 8.0            |
| 050-070                | .4                                   | .5   | 1.5   | .6    | .2    | .2    |       |       |       |       |       | 3.5        | 12.2         | 12.0           |
| (E) 080-100            | .3                                   | .5   | .9    | .2    | .1    |       |       |       |       |       |       | 2.0        | 10.0         | 11.0           |
| 110-130                | .4                                   | .3   | .5    | .1    |       |       |       |       |       |       |       | 1.2        | 7.9          | 8.0            |
| 140-160                |                                      |      | .3    |       |       |       |       |       |       |       |       | .3         | 10.7         | 10.0           |
| (S) 170-190            |                                      | 1.3  | .9    | .2    | .3    |       |       |       |       |       |       | 2.7        | 10.0         | 9.0            |
| 200-220                | 1.5                                  | 2.0  | 4.5   | 2.0   | .6    |       |       |       |       |       |       | 10.7       | 11.3         | 12.0           |
| 230-250                | 1.6                                  | 5.7  | 10.2  | 2.3   | .8    |       |       |       |       |       |       | 20.6       | 10.5         | 10.0           |
| (W) 260-280            | 2.4                                  | 4.1  | 6.0   | 1.1   | .3    | .1    |       |       |       |       |       | 14.0       | 9.3          | 10.0           |
| 290-310                | 2.0                                  | 2.2  | 1.0   |       |       |       |       |       |       |       |       | 5.2        | 6.5          | 6.0            |
| 320-340                | 1.6                                  | 1.2  | .6    |       |       |       |       |       |       |       |       | 3.5        | 5.9          | 6.0            |
| VARIABLE               | 1.1                                  | .3   |       |       |       |       |       |       |       |       |       | 1.3        | 4.0          | 4.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 24.2       | ////////     | ////////       |
| TOTALS                 | 14.1                                 | 21.8 | 30.2  | 7.0   | 2.4   | .3    |       |       |       |       |       | 100.0      | 7.1          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1125

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: 15-17

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010                       | .6                   | 1.1  | 1.5   | .2    | .1    |       |       |       |       |       |       | 3.4        | 8.9              | 9.0            |
| 020-040                           | .5                   | .4   | .9    | .3    | .1    |       |       |       |       |       |       | 2.3        | 9.9              | 10.0           |
| 050-070                           | .1                   | .4   | .9    | .3    | .1    |       |       |       |       |       |       | 1.9        | 11.4             | 10.0           |
| (E) 080-100                       | .2                   | .5   | 1.5   | .3    |       |       |       |       |       |       |       | 2.5        | 10.9             | 12.0           |
| 110-130                           | .1                   | .3   | .3    |       |       |       |       |       |       |       |       | .8         | 8.4              | 8.0            |
| 140-160                           |                      | .3   | .3    | .2    | .1    |       |       |       |       |       |       | .9         | 12.0             | 11.0           |
| (S) 170-190                       | .3                   | .5   | .5    | .4    | .2    | .1    |       |       |       |       |       | 2.1        | 11.6             | 10.0           |
| 200-220                           | .8                   | 2.0  | 3.7   | .8    | 1.0   |       |       |       |       |       |       | 8.3        | 11.4             | 10.0           |
| 230-250                           | .9                   | 2.7  | 13.4  | 8.4   | 3.4   | .1    |       |       |       |       |       | 28.9       | 13.7             | 14.0           |
| (W) 260-280                       | 1.1                  | 4.2  | 12.5  | 5.8   | 1.6   | .2    |       |       |       |       |       | 25.3       | 12.3             | 12.0           |
| 290-310                           | 1.2                  | 3.6  | 3.4   | .8    | .1    |       |       |       |       |       |       | 9.1        | 8.9              | 8.0            |
| 320-340                           | .5                   | 1.0  | 1.2   | .1    |       |       |       |       |       |       |       | 2.8        | 8.1              | 8.0            |
| VARIABLE                          | .3                   | .5   |       |       |       |       |       |       |       |       |       | .9         | 4.8              | 5.0            |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 10.9       | //////////////// |                |
| TOTALS                            | 6.6                  | 17.5 | 40.1  | 17.6  | 6.7   | .4    |       |       |       |       |       | 100.0      | 10.5             | 12.0           |
| TOTAL NUMBER OF OBSERVATIONS 1161 |                      |      |       |       |       |       |       |       |       |       |       |            |                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | .4                                   | .4   | .9    |       |       |       |       |       |       |       |       | 1.6        | 9.0                              | 10.0           |
| 020-040                | .1                                   | .2   | .5    |       |       |       |       |       |       |       |       | .9         | 9.6                              | 10.0           |
| 050-070                | .1                                   | .7   | 1.0   |       |       |       |       |       |       |       |       | 1.8        | 9.3                              | 10.0           |
| (E) 080-100            | .5                                   | .1   | .7    | .1    |       |       |       |       |       |       |       | 1.5        | 9.3                              | 11.0           |
| 110-130                |                                      | .5   | 1.2   | .1    |       |       |       |       |       |       |       | 1.8        | 10.9                             | 10.0           |
| 140-160                |                                      | .2   | .2    | .1    |       |       |       |       |       |       |       | .6         | 10.8                             | 10.0           |
| (S) 170-190            | .1                                   | .1   | .1    | .5    | .1    |       |       |       |       |       |       | 1.0        | 13.0                             | 16.0           |
| 200-220                | .1                                   | .7   | 1.0   | 2.3   | 2.0   |       |       |       |       |       |       | 6.1        | 15.9                             | 16.0           |
| 230-250                | .9                                   | 2.1  | 14.2  | 17.3  | 7.2   | .4    |       |       |       |       |       | 42.0       | 15.1                             | 16.0           |
| (W) 260-280            | 1.2                                  | 3.4  | 14.6  | 10.4  | 1.6   | .1    |       |       |       |       |       | 31.4       | 13.2                             | 14.0           |
| 290-310                | .1                                   | 2.0  | 2.5   | .7    |       |       |       |       |       |       |       | 5.3        | 10.3                             | 10.0           |
| 320-340                | .5                                   | 1.1  | .4    | .1    | .2    |       |       |       |       |       |       | 2.3        | 9.1                              | 8.0            |
| VARIABLE               | .4                                   |      |       |       |       |       |       |       |       |       |       | .4         | 6.3                              | 6.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 3.3        | //////////////////////////////// |                |
| TOTALS                 | 4.0                                  | 11.9 | 37.3  | 31.6  | 11.1  | .5    |       |       |       |       |       | 100.0      | 13.2                             | 14.0           |

TOTAL NUMBER OF OBSERVATIONS 816

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: ALL

| WIND SPEED IN KNOTS               |                                      |      |       |       |       |       |       |       |       |       |       |       |                                  |        |
|-----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|--------|
| DIRECTION                         | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 | TOTAL | MEAN                             | MEDIAN |
| (DEGREES)                         |                                      |      |       |       |       |       |       |       |       |       |       | %     | WIND                             | WIND   |
| (N) 350-010                       | 1.7                                  | 1.4  | 1.3   | .1    | .0    |       |       |       |       |       |       | 4.5   | 6.9                              | 6.0    |
| 020-040                           | .9                                   | 1.5  | 1.5   | .2    | .1    | .0    |       |       |       |       |       | 4.1   | 8.6                              | 8.0    |
| 050-070                           | .9                                   | 1.2  | 1.6   | .3    | .2    | .1    | .0    |       |       |       |       | 4.3   | 9.7                              | 10.0   |
| (E) 080-100                       | .7                                   | .6   | .8    | .2    | .1    |       |       |       |       |       |       | 2.4   | 8.6                              | 8.0    |
| 110-130                           | .6                                   | .6   | .4    | .1    |       |       |       |       |       |       |       | 1.7   | 7.1                              | 6.0    |
| 140-160                           | .3                                   | .4   | .3    | .1    | .0    |       |       |       |       |       |       | 1.0   | 7.7                              | 6.0    |
| (S) 170-190                       | .9                                   | 1.7  | 1.4   | .3    | .1    | .0    |       |       |       |       |       | 4.4   | 8.6                              | 8.0    |
| 200-220                           | 1.1                                  | 2.4  | 3.9   | 1.4   | .8    |       |       |       |       |       |       | 9.6   | 11.0                             | 10.0   |
| 230-250                           | 1.4                                  | 3.2  | 8.4   | 5.3   | 2.2   | .1    |       |       |       |       |       | 20.6  | 12.7                             | 12.0   |
| (W) 260-280                       | 1.3                                  | 2.9  | 6.8   | 3.3   | .7    | .1    |       |       |       |       |       | 15.0  | 11.6                             | 12.0   |
| 290-310                           | 1.1                                  | 1.9  | 1.5   | .3    | .0    |       |       |       |       |       |       | 4.8   | 8.1                              | 8.0    |
| 320-340                           | .9                                   | .9   | .5    | .1    | .0    |       |       |       |       |       |       | 2.4   | 6.9                              | 6.0    |
| VARIABLE                          | .4                                   | .4   |       |       |       |       |       |       |       |       |       | .7    | 4.7                              | 4.0    |
| CALM                              | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 24.3  | //////////////////////////////// |        |
| TOTALS                            | 12.2                                 | 19.1 | 28.4  | 11.7  | 4.2   | .3    |       |       |       |       |       | 100.0 | 7.9                              | 10.0   |
| TOTAL NUMBER OF OBSERVATIONS 5070 |                                      |      |       |       |       |       |       |       |       |       |       |       |                                  |        |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 3.8                  | 4.7  |       |       |       |       |       |       |       |       |       | 8.5        | 5.1          | 6.0            |
| 020-040                | 1.9                  | .9   |       |       |       |       |       |       |       |       |       | 2.8        | 5.3          | 4.0            |
| 050-070                | 1.9                  |      |       |       |       |       |       |       |       |       |       | 1.9        | 4.0          | 4.0            |
| (E) 080-100            | 1.9                  |      |       |       |       |       |       |       |       |       |       | 1.9        | 4.0          | 4.0            |
| 110-130                | .9                   | .9   |       |       |       |       |       |       |       |       |       | 1.9        | 5.0          | 5.0            |
| 140-160                | 1.9                  |      |       |       |       |       |       |       |       |       |       | 1.9        | 4.0          | 4.0            |
| (S) 170-190            | 4.7                  | .9   | 2.8   | 1.9   |       |       |       |       |       |       |       | 10.4       | 8.4          | 6.0            |
| 200-220                | 1.9                  | 1.9  | 9.4   |       | 1.9   |       |       |       |       |       |       | 15.1       | 11.6         | 12.0           |
| 230-250                | 2.8                  | 5.7  | 5.7   | .9    |       |       |       |       |       |       |       | 15.1       | 8.9          | 8.0            |
| (W) 260-280            | 3.8                  |      |       | .9    | .9    |       |       |       |       |       |       | 5.7        | 8.0          | 4.0            |
| 290-310                | 2.8                  |      |       |       |       |       |       |       |       |       |       | 2.8        | 3.3          | 4.0            |
| 320-340                |                      | 1.9  |       |       |       |       |       |       |       |       |       | 1.9        | 7.0          | 7.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 30.2       | ////////     |                |
| TOTALS                 | 28.3                 | 16.9 | 17.9  | 3.7   | 2.8   |       |       |       |       |       |       | 100.0      | 5.6          | 6.0            |

TOTAL NUMBER OF OBSERVATIONS 106

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | .5                   | .2   | .5    |       |       |       |       |       |       |       |       | 1.1        | 7.3          | 6.0            |
| 020-040                          | 1.7                  | 2.0  | 1.5   | .2    |       |       |       |       |       |       |       | 5.4        | 7.2          | 6.0            |
| 050-070                          | 2.8                  | 5.2  | 3.1   | .3    | .2    |       |       |       |       |       |       | 11.5       | 7.6          | 6.0            |
| (E) 080-100                      | 3.1                  | 2.0  | .8    |       |       |       |       |       |       |       |       | 5.8        | 5.8          | 4.0            |
| 110-130                          | 4.0                  | 2.8  | .6    |       |       |       |       |       |       |       |       | 7.4        | 5.3          | 4.0            |
| 140-160                          | 1.4                  | 1.2  | .5    |       |       |       |       |       |       |       |       | 3.1        | 5.8          | 6.0            |
| (S) 170-190                      | 4.1                  | 3.5  | 2.5   | .3    | .2    |       |       |       |       |       |       | 10.6       | 6.9          | 6.0            |
| 200-220                          | 1.2                  | 2.1  | 3.2   | .6    |       |       |       |       |       |       |       | 7.2        | 9.0          | 10.0           |
| 230-250                          | .6                   | 1.8  | 1.1   |       |       |       |       |       |       |       |       | 3.5        | 7.4          | 7.0            |
| (W) 260-280                      | .3                   | .3   | .2    |       |       |       |       |       |       |       |       | .6         | 6.8          | 8.0            |
| 290-310                          | .2                   |      |       | .2    |       |       |       |       |       |       |       | .3         | 10.0         | 10.0           |
| 320-340                          | .5                   | .3   |       |       |       |       |       |       |       |       |       | .8         | 4.4          | 4.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 42.7       | ////////     |                |
| TOTALS                           | 20.4                 | 21.4 | 14.0  | 1.6   | .4    |       |       |       |       |       |       | 100.0      | 4.0          | 6.0            |
| TOTAL NUMBER OF OBSERVATIONS 653 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.6                                  | 2.2  | .6    |       |       |       |       |       |       |       |       | 4.4        | 6.0                              | 6.0            |
| 020-040                | 1.3                                  | 2.2  | 2.9   | .6    | .5    |       |       |       |       |       |       | 7.5        | 10.1                             | 10.0           |
| 050-070                | 1.7                                  | 3.3  | 3.3   | .6    | .4    |       | .1    |       |       |       |       | 9.2        | 9.3                              | 8.0            |
| (E) 080-100            | 1.3                                  | 2.0  | 1.3   | .5    |       |       |       |       |       |       |       | 5.0        | 7.9                              | 6.0            |
| 110-130                | 1.1                                  | .4   | .3    | .1    |       | .1    |       |       |       |       |       | 2.0        | 6.9                              | 4.0            |
| 140-160                | .3                                   | .5   |       | .1    |       |       |       |       |       |       |       | .8         | 6.9                              | 6.0            |
| (S) 170-190            | 1.8                                  | 1.0  | 1.9   | .6    | .3    | .1    |       |       |       |       |       | 5.6        | 9.2                              | 9.0            |
| 200-220                | 1.1                                  | 2.3  | 4.4   | .7    | .4    |       |       |       |       |       |       | 8.9        | 10.0                             | 10.0           |
| 230-250                | 1.1                                  | 1.8  | 2.1   | .5    |       |       |       |       |       |       |       | 5.4        | 8.6                              | 8.0            |
| (W) 260-280            | .8                                   | .7   | .8    | .1    | .1    |       |       |       |       |       |       | 2.6        | 8.1                              | 8.0            |
| 290-310                | .8                                   | .7   | .2    |       |       |       |       |       |       |       |       | 1.7        | 5.4                              | 4.5            |
| 320-340                | .7                                   |      | .5    | .1    |       |       |       |       |       |       |       | 1.3        | 6.9                              | 4.0            |
| VARIABLE               | .3                                   | .2   |       |       |       |       |       |       |       |       |       | .5         | 3.6                              | 3.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 45.2       | //////////////////////////////// |                |
| TOTALS                 | 13.9                                 | 17.3 | 18.3  | 3.9   | 1.7   | .2    | .1    |       |       |       |       | 100.0      | 4.7                              | 8.0            |

TOTAL NUMBER OF OBSERVATIONS 1073

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.4                                  | 2.7  | 1.1   | .1    |       |       |       |       |       |       |       | 5.3        | 7.2                              | 8.0            |
| 020-040                | 1.2                                  | 2.3  | 2.4   | 1.0   | .5    | .1    | .1    |       |       |       |       | 7.6        | 10.8                             | 10.0           |
| 050-070                | .9                                   | 1.7  | 2.1   | .6    | .3    | .1    |       |       |       |       |       | 5.7        | 10.2                             | 10.0           |
| (E) 080-100            | 1.1                                  | .5   | 1.0   | .6    | .1    |       |       |       |       |       |       | 3.3        | 8.8                              | 10.0           |
| 110-130                | .3                                   | .5   | .4    | .4    | .2    |       |       |       |       |       |       | 1.8        | 11.2                             | 10.0           |
| 140-160                | .1                                   | .5   | .1    | .2    | .2    |       |       |       |       |       |       | 1.1        | 11.1                             | 6.0            |
| (S) 170-190            | .4                                   | 1.2  | 1.0   | .2    | .1    | .1    |       |       |       |       |       | 3.0        | 9.6                              | 8.0            |
| 200-220                | .6                                   | 1.8  | 3.9   | .9    | .7    | .1    |       |       |       |       |       | 8.0        | 11.6                             | 10.0           |
| 230-250                | 1.4                                  | 4.0  | 6.2   | 2.3   | .4    |       | .1    |       |       |       |       | 14.4       | 10.6                             | 10.0           |
| (W) 260-280            | 1.8                                  | 3.5  | 4.3   | .9    | .1    |       |       |       |       |       |       | 10.6       | 9.2                              | 9.0            |
| 290-310                | 1.5                                  | 2.9  | 1.0   |       |       |       |       |       |       |       |       | 5.4        | 6.8                              | 6.0            |
| 320-340                | 1.7                                  | 1.7  | .4    | .1    |       |       |       |       |       |       |       | 3.9        | 6.1                              | 6.0            |
| VARIABLE               | .6                                   | .3   | .1    |       |       |       |       |       |       |       |       | 1.0        | 4.7                              | 4.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 28.8       | //////////////////////////////// |                |
| TOTALS                 | 13.0                                 | 23.6 | 24.0  | 7.3   | 2.6   | .4    | .2    |       |       |       |       | 100.0      | 6.8                              | 8.0            |

TOTAL NUMBER OF OBSERVATIONS 999

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | .7                                   | 1.2  | 2.0   |       | .1    |       |       |       |       |       |       | 4.0        | 8.9          | 10.0           |
| 020-040                | .6                                   | 1.6  | 1.4   | .7    | .3    | .1    |       |       |       |       |       | 4.7        | 10.4         | 10.0           |
| 050-070                | .5                                   | 1.2  | 2.8   | .9    | .3    |       |       |       |       |       |       | 5.6        | 10.9         | 10.0           |
| (E) 080-100            | .5                                   | .9   | 1.7   | .8    | .1    |       |       |       |       |       |       | 3.9        | 10.6         | 10.0           |
| 110-130                | .3                                   | .6   | 1.9   | .8    | .3    |       |       |       |       |       |       | 3.8        | 11.8         | 12.0           |
| 140-160                | .3                                   | .5   | .1    |       | .1    |       |       |       |       |       |       | 1.0        | 7.5          | 6.0            |
| (S) 170-190            | .7                                   | .6   | 1.0   | .5    | .3    |       |       |       |       |       |       | 3.0        | 10.5         | 10.0           |
| 200-220                | 1.4                                  | 1.0  | 3.0   | 1.0   | 1.0   |       | .1    |       |       |       |       | 7.5        | 11.5         | 10.0           |
| 230-250                | 1.0                                  | 4.4  | 8.1   | 5.8   | 1.6   |       | .1    |       |       |       |       | 20.9       | 12.6         | 12.0           |
| (W) 260-280            | 1.6                                  | 5.1  | 8.2   | 3.5   | 1.2   |       |       |       |       |       |       | 19.7       | 11.1         | 10.0           |
| 290-310                | .9                                   | 2.1  | 2.6   | .3    | .1    |       |       |       |       |       |       | 5.9        | 8.8          | 9.0            |
| 320-340                | 1.3                                  | 2.0  | 1.4   | .2    |       |       |       |       |       |       |       | 4.9        | 7.5          | 7.0            |
| VARIABLE               | .4                                   | .1   | .1    |       |       |       |       |       |       |       |       | .6         | 5.5          | 4.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 14.5       | ////////     |                |
| TOTALS                 | 10.2                                 | 21.3 | 34.3  | 14.5  | 5.4   | .1    | .2    |       |       |       |       | 100.0      | 9.3          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1052

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 18-20

| WIND SPEED IN KNOTS              |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
| DIRECTION<br>(DEGREES)           | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
| (N) 350-010                      | .8                                   | 1.0  | .8    | .3    |       |       |       |       |       |       |       | 2.9        | 8.0                              | 8.0            |
| 020-040                          | .5                                   | 1.0  | 1.2   | .8    | .4    |       |       |       |       |       |       | 4.0        | 11.4                             | 10.0           |
| 050-070                          | .3                                   | .7   | 1.9   | .5    |       |       |       |       |       |       |       | 3.4        | 10.6                             | 10.0           |
| (E) 080-100                      | .5                                   | .5   | 2.2   | .5    |       |       |       |       |       |       |       | 3.8        | 10.4                             | 10.0           |
| 110-130                          |                                      | 1.0  | 1.4   | 1.2   | .1    |       |       |       |       |       |       | 3.7        | 12.4                             | 12.0           |
| 140-160                          |                                      |      | .4    | .3    | .1    |       |       |       |       |       |       | .8         | 14.7                             | 14.0           |
| (S) 170-190                      |                                      | .4   | 1.1   | .4    | .3    |       |       |       |       |       |       | 2.2        | 12.9                             | 12.0           |
| 200-220                          |                                      | .7   | 2.6   | 1.9   | 1.4   | .1    |       |       |       |       |       | 6.7        | 14.8                             | 15.0           |
| 230-250                          | .8                                   | 2.9  | 11.4  | 10.0  | 6.3   | .1    |       |       |       |       |       | 31.5       | 14.7                             | 16.0           |
| (W) 260-280                      | 1.2                                  | 4.8  | 12.9  | 6.0   | 1.0   | .1    |       |       |       |       |       | 26.0       | 12.1                             | 12.0           |
| 290-310                          | .7                                   | 1.5  | 2.2   | .3    |       |       |       |       |       |       |       | 4.7        | 9.2                              | 10.0           |
| 320-340                          | .4                                   | 1.2  | .7    | .5    |       |       |       |       |       |       |       | 2.9        | 9.3                              | 8.0            |
| VARIABLE                         |                                      | .1   |       |       |       |       |       |       |       |       |       | .1         | 8.0                              | 8.0            |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 7.4        | //////////////////////////////// |                |
| TOTALS                           | 5.2                                  | 15.8 | 38.8  | 22.7  | 9.6   | .3    |       |       |       |       |       | 100.0      | 11.8                             | 12.0           |
| TOTAL NUMBER OF OBSERVATIONS 731 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: ALL

| DIRECTION  <br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL | MEAN                             | MEDIAN |
|--------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|--------|
|                          | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |       |                                  |        |
| (N) 350-010              | 1.0                                  | 1.6  | 1.0   | .1    | .0    |       |       |       |       |       |       | 3.8   | 7.4                              | 7.0    |
| 020-040                  | 1.0                                  | 1.9  | 2.0   | .7    | .4    | .0    | .0    |       |       |       |       | 6.0   | 10.1                             | 10.0   |
| 050-070                  | 1.2                                  | 2.3  | 2.6   | .6    | .2    | .0    | .0    |       |       |       |       | 7.0   | 9.5                              | 10.0   |
| (E) 080-100              | 1.2                                  | 1.2  | 1.4   | .5    | .0    |       |       |       |       |       |       | 4.3   | 8.6                              | 8.0    |
| 110-130                  | 1.0                                  | .9   | .9    | .5    | .1    | .0    |       |       |       |       |       | 3.4   | 9.1                              | 8.0    |
| 140-160                  | .4                                   | .5   | .2    | .1    | .1    |       |       |       |       |       |       | 1.2   | 8.3                              | 6.0    |
| (S) 170-190              | 1.3                                  | 1.2  | 1.4   | .4    | .2    | .0    |       |       |       |       |       | 4.6   | 9.0                              | 8.0    |
| 200-220                  | .9                                   | 1.6  | 3.5   | 1.0   | .7    | .0    | .0    |       |       |       |       | 7.8   | 11.2                             | 10.0   |
| 230-250                  | 1.0                                  | 3.1  | 5.7   | 3.6   | 1.5   | .0    | .0    |       |       |       |       | 15.0  | 12.4                             | 12.0   |
| (W) 260-280              | 1.2                                  | 3.0  | 5.2   | 2.0   | .5    | .0    |       |       |       |       |       | 11.9  | 10.9                             | 10.0   |
| 290-310                  | .9                                   | 1.5  | 1.2   | .1    | .0    |       |       |       |       |       |       | 3.8   | 7.9                              | 8.0    |
| 320-340                  | 1.0                                  | 1.1  | .6    | .2    |       |       |       |       |       |       |       | 2.9   | 7.2                              | 6.0    |
| VARIABLE                 | .3                                   | .2   | .0    |       |       |       |       |       |       |       |       | .5    | 4.8                              | 4.0    |
| CALM                     | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 27.9  | //////////////////////////////// |        |
| TOTALS                   | 12.4                                 | 20.1 | 25.7  | 9.8   | 3.7   |       |       |       |       |       |       | 100.0 | 7.3                              | 10.6   |

TOTAL NUMBER OF OBSERVATIONS 4508

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65      |              |                |
| (N) 350-010            |                      | .5   | 1.5   |       |       |       |       |       |       |       | 2.9        | 10.0         | 10.0           |
| 020-040                |                      | 4.4  |       |       |       |       |       |       |       |       | 4.4        | 8.0          | 8.0            |
| 050-070                | 4.4                  | 2.9  | 1.5   |       |       |       |       |       |       |       | 8.8        | 6.3          | 6.0            |
| (E) 080-100            | 1.5                  | 2.9  | 1.5   |       |       |       |       |       |       |       | 5.9        | 6.0          | 6.0            |
| 110-130                | 1.5                  | 1.5  | 1.5   |       |       |       |       |       |       |       | 4.4        | 8.0          | 8.0            |
| 140-160                | 1.5                  |      |       |       |       |       |       |       |       |       | 1.5        | 3.0          | 3.0            |
| (S) 170-190            | 1.5                  | 5.9  | 1.5   | 1.5   |       |       |       |       |       |       | 10.3       | 8.6          | 8.0            |
| 200-220                |                      | 8.8  | 4.4   | 1.5   | 1.5   |       |       |       |       |       | 16.2       | 10.5         | 8.0            |
| 230-250                |                      | 2.9  | 4.4   | 2.9   |       |       |       |       |       |       | 10.3       | 12.1         | 14.0           |
| (W) 260-280            |                      | 1.5  | 2.9   | 2.9   |       |       |       |       |       |       | 7.4        | 13.2         | 14.0           |
| 290-310                |                      | 1.5  |       |       |       |       |       |       |       |       | 1.5        | 8.0          | 8.0            |
| 320-340                |                      |      | 1.5   |       |       |       |       |       |       |       | 1.5        | 10.0         | 10.0           |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       | 25.0       | ////////     |                |
| TOTALS                 | 10.4                 | 33.8 | 20.7  | 8.8   | 1.5   |       |       |       |       |       | 100.0      | 7.0          | 8.0            |

TOTAL NUMBER OF OBSERVATIONS 68

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 06-08

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |            |  |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|------------|--|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                | GE 65      |  |
| (N) 350-010            | .5                                   | .7   | .3    | .2    |       |       |       |       |       |       |            | 1.7          | 7.6            | 7.0        |  |
| 020-040                | 1.7                                  | 4.2  | 1.4   | .7    |       |       |       |       |       |       |            | 8.0          | 8.0            | 8.0        |  |
| 050-070                | 1.9                                  | 4.1  | 3.1   | .3    |       |       |       |       |       |       |            | 9.3          | 7.8            | 8.0        |  |
| (E) 080-100            | 1.9                                  | 2.9  | 1.4   |       |       |       |       |       |       |       |            | 6.1          | 6.5            | 6.0        |  |
| 110-130                | 2.0                                  | 3.6  | .8    |       | .2    |       |       |       |       |       |            | 6.6          | 6.7            | 6.0        |  |
| 140-160                | 2.0                                  | 1.9  | 2.0   |       |       |       |       |       |       |       |            | 5.9          | 6.7            | 6.0        |  |
| (S) 170-190            | 1.4                                  | 3.2  | 3.1   | .3    |       |       |       |       |       |       |            | 8.0          | 8.2            | 8.0        |  |
| 200-220                | 1.4                                  | 2.0  | 3.7   | 1.0   |       |       | .5    |       |       |       |            | 8.7          | 10.4           | 10.0       |  |
| 230-250                | .8                                   | 1.7  | 1.7   | .7    | .2    |       | .2    |       |       |       |            | 5.3          | 10.3           | 10.0       |  |
| (W) 260-280            | .2                                   | .2   | .2    |       | .2    |       |       |       |       |       |            | .7           | 11.0           | 10.0       |  |
| 290-310                |                                      |      |       |       |       |       |       |       |       |       |            |              |                |            |  |
| 320-340                | .3                                   | .2   |       |       |       |       |       |       |       |       |            | .5           | 5.3            | 4.0        |  |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |            |              |                |            |  |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            |              | 39.2           | ////////// |  |
| TOTALS                 | 14.1                                 | 24.7 | 17.7  | 3.2   | .6    |       | .7    |       |       |       |            | 100.0        | 4.9            | 8.0        |  |

TOTAL NUMBER OF OBSERVATIONS 589

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | 1.7                                  | 1.8  | .7    | .1    |       |       |       |       |       |       |       | 4.3        | 6.4                              | 6.0            |
| 020-040                | 1.3                                  | 3.5  | 4.1   | .6    | .1    |       |       |       |       |       |       | 9.6        | 9.0                              | 9.0            |
| 050-070                | 2.0                                  | 3.3  | 3.2   | 1.2   | .2    |       |       |       |       |       |       | 9.9        | 9.0                              | 8.0            |
| (E) 080-100            | 1.8                                  | 1.3  | 1.9   | .1    | .1    |       | .1    |       |       |       |       | 5.3        | 7.9                              | 6.0            |
| 110-130                | 1.8                                  | 1.0  | .5    | .2    | .2    |       |       |       |       |       |       | 3.7        | 7.1                              | 5.0            |
| 140-160                | 1.2                                  | .9   | .3    | .2    | .1    |       |       |       |       |       |       | 2.7        | 6.7                              | 5.5            |
| (S) 170-190            | 1.1                                  | 1.9  | 2.7   | .7    | .4    |       |       |       |       |       |       | 6.8        | 10.3                             | 10.0           |
| 200-220                | .7                                   | 1.8  | 3.1   | .5    | .6    | .2    | .3    |       | .1    |       |       | 7.3        | 12.2                             | 10.0           |
| 230-250                | 1.1                                  | 1.4  | 2.4   | .9    | .1    | .1    |       |       |       |       |       | 6.0        | 10.3                             | 10.0           |
| (W) 260-280            | .3                                   | .4   | .6    | .1    | .4    |       | .1    |       |       |       |       | 1.9        | 13.0                             | 12.0           |
| 290-310                | .2                                   | .5   | .3    |       | .1    |       |       |       |       |       |       | 1.1        | 8.3                              | 6.0            |
| 320-340                | .5                                   | .7   | .2    | .1    |       |       |       |       |       |       |       | 1.5        | 6.2                              | 6.0            |
| VARIABLE               | .1                                   |      |       |       |       |       |       |       |       |       |       | .1         | 3.0                              | 3.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 40.1       | //////////////////////////////// |                |
| TOTALS                 | 13.8                                 | 18.5 | 20.0  | 4.7   | 2.3   | .3    | .5    |       | .1    |       |       | 100.0      | 5.5                              | 8.0            |

TOTAL NUMBER OF OBSERVATIONS 1123

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 12-14

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|-----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                   | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                       | 2.6                                  | 3.7  | 1.8   | .2    |       |       |       |       |       |       |       | 8.2        | 6.8                              | 6.0            |
| 020-040                           | 1.3                                  | 2.0  | 4.7   | .7    | .2    |       |       |       |       |       |       | 8.9        | 9.9                              | 10.0           |
| 050-070                           | .6                                   | 1.9  | 2.5   | 1.0   | .4    |       |       |       |       |       |       | 6.3        | 10.5                             | 10.0           |
| (E) 080-100                       | .3                                   | 1.1  | 1.8   | .2    | .1    |       |       |       |       |       |       | 3.4        | 9.9                              | 10.0           |
| 110-130                           | .4                                   | .4   | 1.5   | .4    | .3    |       |       |       |       |       |       | 3.0        | 11.3                             | 10.0           |
| 140-160                           | .1                                   | .4   | .8    | .4    | .1    |       |       |       |       |       |       | 1.9        | 12.0                             | 12.0           |
| (S) 170-190                       | .4                                   | .4   | 1.2   | 1.0   | 1.2   |       |       |       |       |       |       | 4.3        | 14.3                             | 16.0           |
| 200-220                           | .8                                   | 1.4  | 2.7   | .8    | 1.1   | .2    |       |       |       |       |       | 7.0        | 12.0                             | 12.0           |
| 230-250                           | 2.0                                  | 3.2  | 4.6   | 1.5   | 1.7   |       |       |       |       |       |       | 12.9       | 11.1                             | 10.0           |
| (W) 260-280                       | 1.6                                  | 3.3  | 3.6   | .8    | .4    | .2    |       |       |       |       |       | 9.9        | 9.8                              | 10.0           |
| 290-310                           | 1.0                                  | 1.7  | .8    | .2    |       |       |       |       |       |       |       | 3.6        | 7.1                              | 6.0            |
| 320-340                           | 2.5                                  | 1.3  | .3    | .1    |       |       |       |       |       |       |       | 4.2        | 5.3                              | 4.0            |
| VARIABLE                          | .3                                   | .1   |       |       |       |       |       |       |       |       |       | .4         | 3.5                              | 3.5            |
| CALM                              | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 26.0       | //////////////////////////////// |                |
| TOTALS                            | 13.9                                 | 20.9 | 26.3  | 7.3   | 5.5   | .4    |       |       |       |       |       | 100.0      | 7.4                              | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 1128 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 1.2                  | 2.0  | 1.2   | .5    | .1    |       |       |       |       |       |       | 5.0        | 8.1          | 8.0            |
| 020-040                | .6                   | 1.9  | 3.9   | .7    | .6    |       |       |       |       |       |       | 7.7        | 10.9         | 10.0           |
| 050-070                | .6                   | 1.3  | 2.3   | .8    | .1    |       |       |       |       |       |       | 5.1        | 10.3         | 10.0           |
| (E) 080-100            | .3                   | .9   | 1.2   | .5    |       |       |       |       |       |       |       | 2.8        | 10.3         | 10.0           |
| 110-130                | .4                   | .7   | 1.8   | .7    | .3    |       |       |       |       |       |       | 3.8        | 11.5         | 10.0           |
| 140-160                | .1                   | .7   | .4    |       | .2    |       |       |       |       |       |       | 1.4        | 9.6          | 8.0            |
| (S) 170-190            | .3                   | .5   | 1.3   | .8    | 1.2   | .2    |       |       |       |       |       | 4.2        | 14.5         | 16.0           |
| 200-220                | .5                   | 1.8  | 2.3   | 1.9   | 1.9   |       | .1    |       |       |       |       | 8.6        | 13.9         | 14.0           |
| 230-250                | .5                   | 3.3  | 6.3   | 3.3   | 2.4   | .6    |       |       |       |       |       | 16.4       | 13.4         | 12.0           |
| (W) 260-280            | 2.6                  | 3.8  | 4.6   | 1.8   | 1.3   | .2    |       |       |       |       |       | 14.2       | 10.5         | 10.0           |
| 290-310                | 1.8                  | 2.8  | 2.0   | .6    | .3    | .1    |       |       |       |       |       | 7.7        | 8.7          | 8.0            |
| 320-340                | 2.4                  | 1.7  | 1.1   |       | .1    |       |       |       |       |       |       | 5.3        | 6.4          | 5.5            |
| VARIABLE               | .5                   | .2   |       | .1    |       |       |       |       |       |       |       | .8         | 6.1          | 4.0            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 17.2       | ////////     |                |
| TOTALS                 | 11.8                 | 21.6 | 28.4  | 11.7  | 8.5   | 1.1   | .1    |       |       |       |       | 100.0      | 9.1          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1028

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010            | .8                                   | 1.5  | 2.2   | .1    | .1    |       |       |       |       |       |       | 4.8        | 8.8                              | 10.0           |
| 020-040                | .3                                   | 2.1  | 2.1   | .7    |       |       |       |       |       |       |       | 5.1        | 9.7                              | 10.0           |
| 050-070                | .3                                   | 1.8  | 1.8   | .6    |       |       |       |       |       |       |       | 4.4        | 9.3                              | 10.0           |
| (E) 080-100            | .8                                   | 1.0  | 1.2   | .3    |       |       |       |       |       |       |       | 3.3        | 8.3                              | 7.5            |
| 110-130                |                                      | 1.0  | 2.2   | 1.5   | .1    |       |       |       |       |       |       | 4.8        | 12.8                             | 13.0           |
| 140-160                | .3                                   | .4   | .3    |       |       |       |       |       |       |       |       | 1.0        | 7.4                              | 8.0            |
| (S) 170-190            | .1                                   | .8   | 2.2   | .6    | .8    |       |       |       |       |       |       | 4.6        | 12.4                             | 12.0           |
| 200-220                | .6                                   | 1.4  | 5.5   | 2.5   | 1.5   |       | .3    |       |       |       |       | 11.8       | 13.4                             | 14.0           |
| 230-250                | 1.2                                  | 3.7  | 7.2   | 5.8   | 2.2   | .1    | .1    |       |       |       |       | 20.5       | 13.0                             | 14.0           |
| (W) 260-280            | 1.5                                  | 4.3  | 6.1   | 1.4   | 1.2   |       |       |       |       |       |       | 14.5       | 10.7                             | 10.0           |
| 290-310                | 1.2                                  | 3.3  | 2.4   | .4    |       |       |       |       |       |       |       | 7.3        | 8.3                              | 8.0            |
| 320-340                | .4                                   | 1.4  | .6    |       | .4    |       |       |       |       |       |       | 2.8        | 9.4                              | 8.0            |
| VARIABLE               | .1                                   |      |       |       |       |       |       |       |       |       |       | .1         | 2.0                              | 2.0            |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 14.9       | //////////////////////////////// |                |
| TOTALS                 | 7.6                                  | 22.7 | 33.8  | 13.9  | 6.3   | .1    | .4    |       |       |       |       | 100.0      | 9.5                              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 723

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL | MEAN     | MEDIAN |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |       |          |        |
| (N) 350-010            | 1.5                  | 2.1  | 1.3   | .2    | .0    |       |       |       |       |       |       | 5.2   | 7.3      | 6.0    |
| 020-040                | 1.0                  | 2.6  | 3.5   | .7    | .2    |       |       |       |       |       |       | 8.1   | 9.6      | 10.0   |
| 050-070                | 1.1                  | 2.4  | 2.6   | .8    | .2    |       |       |       |       |       |       | 7.0   | 9.4      | 10.0   |
| (E) 080-100            | .9                   | 1.3  | 1.5   | .2    | .0    |       | .0    |       |       |       |       | 4.1   | 8.5      | 8.0    |
| 110-130                | .9                   | 1.1  | 1.4   | .5    | .2    |       |       |       |       |       |       | 4.1   | 9.8      | 10.0   |
| 140-160                | .7                   | .8   | .7    | .2    | .1    |       |       |       |       |       |       | 2.3   | 8.2      | 8.0    |
| (S) 170-190            | .6                   | 1.2  | 2.0   | .7    | .8    | .0    |       |       |       |       |       | 5.4   | 11.7     | 10.0   |
| 200-220                | .7                   | 1.7  | 3.3   | 1.3   | 1.1   | .1    | .2    |       | .0    |       |       | 8.4   | 12.6     | 12.0   |
| 230-250                | 1.2                  | 2.7  | 4.5   | 2.3   | 1.4   | .2    | .0    |       |       |       |       | 12.2  | 12.2     | 12.0   |
| (W) 260-280            | 1.3                  | 2.4  | 3.0   | .8    | .7    | .1    | .0    |       |       |       |       | 8.5   | 10.5     | 10.0   |
| 290-310                | .9                   | 1.7  | 1.1   | .2    | .1    | .0    |       |       |       |       |       | 4.0   | 8.2      | 8.0    |
| 320-340                | 1.4                  | 1.1  | .4    | .0    | .1    |       |       |       |       |       |       | 3.1   | 6.4      | 6.0    |
| VARIABLE               | .2                   | .1   |       | .0    |       |       |       |       |       |       |       | .3    | 4.9      | 4.0    |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 27.4  | //////// |        |
| TOTALS                 | 12.4                 | 21.2 | 25.3  | 7.9   | 4.9   | .4    | .2    |       |       |       |       | 100.0 | 7.3      | 10.0   |

TOTAL NUMBER OF OBSERVATIONS 4591

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION  <br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       | TOTAL | MEAN     | MEDIAN |
|--------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
|                          | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |          |        |
| (N) 350-010              | 2.1                  | .7   | 1.4   |       |       |       |       |       |       |       | 4.1   | 6.2      | 5.0    |
| 020-040                  | .7                   | .7   | 1.4   |       |       |       |       |       |       |       | 2.8   | 8.5      | 9.0    |
| 050-070                  | 2.8                  | 2.8  | 2.1   |       |       |       |       |       |       |       | 7.6   | 6.8      | 6.0    |
| (E) 080-100              | .7                   |      |       |       |       |       |       |       |       |       | .7    | 4.0      | 4.0    |
| 110-130                  | 1.4                  |      |       | .7    | 1.4   |       |       |       |       |       | 3.4   | 12.8     | 18.0   |
| 140-160                  | .7                   |      | .7    |       |       |       |       |       |       |       | 1.4   | 7.0      | 7.0    |
| (S) 170-190              | 2.1                  | .7   | 2.8   |       | 2.8   |       |       |       |       |       | 8.3   | 12.4     | 11.0   |
| 200-220                  | 3.4                  | 2.8  | 4.1   | 1.4   | 2.1   |       | 1.4   |       |       |       | 15.2  | 12.3     | 11.0   |
| 230-250                  | 1.4                  | 3.4  | 4.8   | 4.8   | 2.8   | 1.4   | .7    |       |       |       | 19.3  | 14.8     | 15.0   |
| (W) 260-280              | 1.4                  | .7   | .7    |       |       |       | .7    |       |       |       | 3.4   | 11.2     | 6.0    |
| 290-310                  |                      |      | .7    |       |       |       |       |       |       |       | .7    | 10.0     | 10.0   |
| 320-340                  | 2.1                  |      |       |       |       |       |       |       |       |       | 2.1   | 4.0      | 4.0    |
| VARIABLE                 |                      |      |       |       |       |       |       |       |       |       |       |          |        |
| CALM                     | //////////////////// |      |       |       |       |       |       |       |       |       | 31.0  | //////// |        |
| TOTALS                   | 18.8                 | 11.8 | 18.7  | 6.9   | 9.1   | 1.4   | 2.8   |       |       |       | 100.0 | 7.9      | 10.0   |

TOTAL NUMBER OF OBSERVATIONS 145

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | .9                                   | .9   | .2    |       |       |       |       |       |       |       |       | 2.0        | 5.5                              | 5.0            |
| 020-040                          | 1.5                                  | 2.6  | 3.1   |       |       |       |       |       |       |       |       | 7.1        | 8.3                              | 8.0            |
| 050-070                          | 2.6                                  | 5.1  | 3.6   | 1.6   |       |       |       |       |       |       |       | 12.9       | 8.7                              | 8.0            |
| (E) 080-100                      | 1.5                                  | 2.7  | 2.0   | .4    |       |       |       |       |       |       |       | 6.6        | 7.6                              | 6.0            |
| 110-130                          | 2.0                                  | 2.2  | .9    |       | .2    |       |       |       |       |       |       | 5.3        | 6.8                              | 6.0            |
| 140-160                          | 1.3                                  | .9   | .9    | .2    | .2    | .2    |       |       |       |       |       | 3.6        | 9.0                              | 7.0            |
| (S) 170-190                      | 1.5                                  | 4.4  | 4.0   | .7    | .9    | .2    |       |       |       |       |       | 11.7       | 10.0                             | 9.0            |
| 200-220                          | .4                                   | .9   | 3.3   | 1.5   | 1.6   |       | .2    |       |       |       |       | 7.8        | 13.9                             | 12.0           |
| 230-250                          | .5                                   | 1.1  | 1.6   | 1.8   | .5    |       |       |       |       |       |       | 5.6        | 12.6                             | 14.0           |
| (W) 260-280                      | .4                                   |      | 1.1   | .2    |       |       |       |       |       |       |       | 1.6        | 10.1                             | 10.0           |
| 290-310                          | .2                                   | .2   | .4    | .2    |       |       |       |       |       |       |       | .9         | 10.4                             | 10.0           |
| 320-340                          |                                      | .4   | .2    |       |       |       |       |       |       |       |       | .5         | 8.7                              | 6.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 34.2       | //////////////////////////////// |                |
| TOTALS                           | 12.8                                 | 21.4 | 21.3  | 6.6   | 3.4   | .4    | .2    |       |       |       |       | 100.0      | 6.3                              | 8.0            |
| TOTAL NUMBER OF OBSERVATIONS 549 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND                   |       |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------------------------|-------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 |            |              |                                  | GE 65 |
| (N) 350-010            | 1.7                                  | 1.1  | .7    |       |       |       |       |       |       |       |            | 3.5          | 5.7                              | 5.0   |
| 020-040                | 1.5                                  | 3.0  | 4.9   | .8    | .1    |       |       |       |       |       |            | 10.2         | 9.4                              | 10.0  |
| 050-070                | 3.1                                  | 4.7  | 5.7   | 1.4   | .2    |       |       |       |       |       |            | 15.1         | 9.1                              | 8.0   |
| (E) 080-100            | 1.0                                  | 1.6  | .6    | .2    | .2    |       |       |       |       |       |            | 3.6          | 7.6                              | 6.0   |
| 110-130                | 1.1                                  | .7   | .4    |       |       |       |       |       |       |       |            | 2.2          | 6.0                              | 5.0   |
| 140-160                | .3                                   | .5   | .6    | .2    | .3    | .1    |       |       |       |       |            | 2.0          | 11.3                             | 10.0  |
| (S) 170-190            | .7                                   | 1.2  | 3.7   | 1.6   | 1.6   | .2    | .3    |       |       |       |            | 9.3          | 13.9                             | 14.0  |
| 200-220                | .7                                   | 1.7  | 2.9   | .9    | .7    |       | .2    |       | .2    | .1    |            | 7.4          | 13.0                             | 12.0  |
| 230-250                | .9                                   | .5   | 2.0   | 1.1   | .4    |       |       |       |       |       |            | 4.9          | 11.6                             | 12.0  |
| (W) 260-280            | .3                                   | .4   | .5    | .3    | .2    |       |       |       |       |       |            | 1.7          | 10.6                             | 10.0  |
| 290-310                | .3                                   | .4   | .1    | .2    | .1    |       |       |       |       |       |            | 1.1          | 8.8                              | 6.0   |
| 320-340                | .2                                   | .3   | .4    |       |       |       |       |       |       |       |            | .8           | 7.8                              | 8.0   |
| VARIABLE               | .1                                   | .1   |       |       |       |       |       |       |       |       |            | .2           | 4.5                              | 4.5   |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |            | 38.2         | //////////////////////////////// |       |
| TOTALS                 | 11.9                                 | 16.2 | 22.5  | 6.7   | 3.8   | .3    | .5    |       | .2    | .1    |            | 100.0        | 6.3                              | 10.0  |

TOTAL NUMBER OF OBSERVATIONS 1113

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 12-14

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|-----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                   | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                       | 2.9                                  | 3.1  | 2.5   | .2    |       |       |       |       |       |       |       | 8.7        | 6.9          | 6.0            |
| 020-040                           | 1.0                                  | 2.6  | 6.3   | 2.0   | .3    | .1    |       |       |       |       |       | 12.3       | 11.4         | 12.0           |
| 050-070                           | 1.5                                  | 3.2  | 6.0   | 2.2   | .6    |       |       |       |       |       |       | 13.5       | 11.1         | 12.0           |
| (E) 080-100                       | .6                                   | .5   | 1.5   | .4    |       |       |       |       |       |       |       | 3.0        | 9.8          | 10.0           |
| 110-130                           | .1                                   | .2   | .5    | .3    | .5    |       |       |       |       |       |       | 1.6        | 14.7         | 15.0           |
| 140-160                           | .2                                   | .1   | .2    | .2    | .1    |       |       |       |       |       |       | .7         | 11.1         | 12.0           |
| (S) 170-190                       | .6                                   | .5   | 1.8   | 1.2   | 2.5   | .3    | .8    |       |       |       |       | 7.8        | 17.4         | 18.0           |
| 200-220                           | .5                                   | .9   | 1.5   | 1.5   | 1.3   | .5    | .2    |       |       |       |       | 6.5        | 15.7         | 16.0           |
| 230-250                           | .7                                   | 2.4  | 3.5   | 1.8   | 1.4   | .4    |       |       |       |       |       | 10.2       | 13.0         | 12.0           |
| (W) 260-280                       | .6                                   | 1.8  | 1.2   | 1.1   | .5    | .4    |       |       |       |       |       | 5.6        | 11.8         | 10.0           |
| 290-310                           | 1.1                                  | .9   | 1.0   | .1    |       |       |       |       |       |       |       | 3.1        | 7.3          | 6.0            |
| 320-340                           | .9                                   | .7   | .2    | .1    | .2    |       |       |       |       |       |       | 2.1        | 7.6          | 6.0            |
| VARIABLE                          |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                              | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 24.9       | ////////     |                |
| TOTALS                            | 10.7                                 | 16.9 | 26.2  | 11.1  | 7.4   | 1.7   | 1.0   |       |       |       |       | 100.0      | 8.9          | 12.0           |
| TOTAL NUMBER OF OBSERVATIONS 1100 |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 15-17

| DIRECTION<br>(DEGREES)            | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                       | 2.2                  | 3.5  | 2.8   | .3    | .1    |       |       |       |       |       |       | 8.9        | 7.9          | 8.0            |
| 020-040                           | 1.4                  | 2.7  | 4.7   | 1.4   | .6    |       | .1    |       |       |       |       | 10.9       | 11.0         | 10.0           |
| 050-070                           | .9                   | 3.6  | 4.2   | 1.5   | .4    |       |       |       |       |       |       | 10.6       | 10.2         | 10.0           |
| (E) 080-100                       | .3                   | .4   | 1.0   | .5    | .1    |       |       |       |       |       |       | 2.2        | 11.0         | 12.0           |
| 110-130                           |                      | .3   | 1.1   | .3    | .3    |       |       |       |       |       |       | 1.9        | 13.4         | 13.0           |
| 140-160                           | .2                   | .4   | .3    |       | .1    |       |       |       |       |       |       | 1.0        | 9.1          | 7.0            |
| (S) 170-190                       | .1                   | 1.1  | 2.0   | 1.1   | 2.6   |       | .2    |       |       |       |       | 7.0        | 15.8         | 16.0           |
| 200-220                           | .5                   | .7   | 1.8   | 1.7   | 1.2   | .8    | .2    | .1    |       |       |       | 7.0        | 16.2         | 16.0           |
| 230-250                           | .9                   | 1.6  | 4.3   | 3.3   | 2.0   | .1    | .3    |       |       |       |       | 12.5       | 14.0         | 14.0           |
| (W) 260-280                       | .9                   | 2.2  | 3.1   | 1.4   | 1.0   | .1    |       |       |       |       |       | 8.6        | 11.7         | 10.0           |
| 290-310                           | 1.3                  | 1.9  | 1.2   | .6    |       |       |       |       |       |       |       | 5.1        | 8.1          | 8.0            |
| 320-340                           | 1.0                  | 1.6  | .6    | .3    | .1    |       |       |       |       |       |       | 3.5        | 8.2          | 6.0            |
| VARIABLE                          |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 20.9       | ////////     |                |
| TOTALS                            | 9.7                  | 20.0 | 27.1  | 12.4  | 8.5   | 1.0   | .8    | .1    |       |       |       | 100.0      | 9.3          | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 1047 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 18-20

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 1.0                  | 1.3  | .8    | .2    |       |       |       |       |       |       |       | 3.2        | 7.5          | 6.0            |
| 020-040                | 1.4                  | 4.3  | 2.7   | .3    |       |       |       |       |       |       |       | 8.8        | 8.1          | 8.0            |
| 050-070                | 1.8                  | 4.0  | 3.8   | .3    |       |       |       |       |       |       |       | 10.9       | 9.0          | 8.0            |
| (E) 080-100            | .5                   | 2.1  | 1.9   |       |       |       |       |       |       |       |       | 4.5        | 8.2          | 8.0            |
| 110-130                | .2                   | .3   | .6    | .8    |       |       |       |       |       |       |       | 1.9        | 11.8         | 12.0           |
| 140-160                | .2                   | .3   |       | .2    |       |       |       |       |       |       |       | .6         | 7.5          | 6.0            |
| (S) 170-190            | .6                   | 1.9  | 2.9   | 1.3   | 2.1   | .6    |       |       |       |       |       | 9.4        | 14.1         | 12.0           |
| 200-220                | .2                   | 1.8  | 3.8   | 1.8   | 1.6   | .5    | .2    |       |       |       |       | 9.7        | 14.3         | 14.0           |
| 230-250                | 1.6                  | 3.0  | 3.8   | 2.9   | 1.6   |       | .2    |       |       |       |       | 13.1       | 11.9         | 10.0           |
| (W) 260-280            | 1.3                  | 2.7  | 2.2   | 1.0   | .3    |       |       |       |       |       |       | 7.5        | 9.6          | 8.0            |
| 290-310                | 1.3                  | 2.2  | 1.1   | .3    | .2    |       |       |       |       |       |       | 5.1        | 7.8          | 6.0            |
| 320-340                | 1.3                  | 1.1  | 1.1   |       |       |       |       |       |       |       |       | 5.5        | 7.0          | 6.0            |
| VARIABLE               | .2                   |      |       |       |       |       |       |       |       |       |       | .2         | 4.0          | 4.0            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 21.6       | ////////     |                |
| TOTALS                 | 11.6                 | 25.0 | 24.7  | 10.1  | 5.8   | 1.1   | .4    |       |       |       |       | 100.0      | 8.2          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 626

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010            | 1.9                  | 2.2  | 1.6   | .1    | .0    |       |       |       |       |       |       | 5.8        | 7.1              | 6.0            |
| 020-040                | 1.4                  | 3.0  | 4.6   | 1.1   | .2    | .0    | .0    |       |       |       |       | 10.3       | 10.1             | 10.0           |
| 050-070                | 1.9                  | 4.0  | 4.9   | 1.6   | .3    |       |       |       |       |       |       | 12.8       | 9.8              | 10.0           |
| (E) 080-100            | .7                   | 1.2  | 1.3   | .3    | .1    |       |       |       |       |       |       | 3.6        | 8.7              | 8.0            |
| 110-130                | .6                   | .6   | .7    | .2    | .2    |       |       |       |       |       |       | 2.3        | 9.9              | 8.0            |
| 140-160                | .3                   | .4   | .4    | .1    | .1    | .0    |       |       |       |       |       | 1.4        | 10.0             | 8.0            |
| (S) 170-190            | .6                   | 1.5  | 2.8   | 1.2   | 2.1   | .2    | .3    |       |       |       |       | 8.7        | 14.4             | 14.0           |
| 200-220                | .5                   | 1.2  | 2.5   | 1.4   | 1.2   | .4    | .2    | .0    | .0    | .0    |       | 7.4        | 14.7             | 14.0           |
| 230-250                | .9                   | 1.7  | 3.1   | 2.1   | 1.2   | .1    | .1    |       |       |       |       | 9.2        | 12.9             | 12.0           |
| (W) 260-280            | .7                   | 1.5  | 1.6   | .8    | .5    | .1    |       |       |       |       |       | 5.1        | 11.1             | 10.0           |
| 290-310                | .9                   | 1.1  | .8    | .3    | .0    |       |       |       |       |       |       | 3.1        | 8.0              | 6.0            |
| 320-340                | .7                   | .8   | .5    | .1    | .1    |       |       |       |       |       |       | 2.1        | 7.7              | 6.0            |
| VARIABLE               | .0                   | .0   |       |       |       |       |       |       |       |       |       | .1         | 4.3              | 4.0            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 28.0       | //////////////// |                |
| TOTALS                 | 11.1                 | 19.2 | 24.8  | 9.3   | 6.0   | .8    | .6    |       |       |       |       | 100.0      | 7.9              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 4435

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION  <br>(DEGREES)         | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | 2.2                                  | 2.9  | 1.1   |       |       |       |       |       |       |       |       | 6.2        | 5.7                              | 6.0            |
| 020-040                          | 1.1                                  | 3.6  | 2.6   |       |       |       |       |       |       |       |       | 7.3        | 8.1                              | 8.0            |
| 050-070                          | 2.9                                  | 3.6  | 2.2   | .4    |       |       |       |       |       |       |       | 9.1        | 7.4                              | 8.0            |
| (E) 080-100                      | .4                                   | 1.5  |       |       |       |       |       |       |       |       |       | 1.8        | 6.0                              | 6.0            |
| 110-130                          | .7                                   | .4   | .4    |       | .4    |       |       |       |       |       |       | 1.8        | 8.2                              | 6.0            |
| 140-160                          | .4                                   |      |       | .4    | 1.1   | .4    |       |       |       |       |       | 2.2        | 18.7                             | 22.0           |
| (S) 170-190                      | .7                                   | .7   | 4.4   | 1.1   | 5.1   | 1.1   | 1.8   |       |       |       |       | 15.0       | 18.0                             | 20.0           |
| 200-220                          | .7                                   | 1.5  | 4.7   | 2.6   | 4.7   | 2.6   | 1.1   |       | .4    |       |       | 18.2       | 18.4                             | 18.0           |
| 230-250                          | .7                                   | .4   | 2.6   | 2.9   | 2.9   |       | .4    |       |       |       |       | 9.9        | 15.9                             | 18.0           |
| (W) 260-280                      | .4                                   | .7   | .4    | .4    | .7    |       |       |       |       |       |       | 2.6        | 12.3                             | 12.0           |
| 290-310                          | .4                                   |      |       |       |       |       |       |       |       |       |       | .4         | 4.0                              | 4.0            |
| 320-340                          | 1.1                                  | .4   | .4    |       |       |       |       |       |       |       |       | 1.8        | 6.0                              | 4.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALN                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 23.7       | //////////////////////////////// |                |
| TOTALS                           | 11.7                                 | 15.7 | 18.8  | 7.8   | 14.9  | 4.1   | 3.3   |       | .4    |       |       | 100.0      | 10.4                             | 12.0           |
| TOTAL NUMBER OF OBSERVATIONS 274 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 06-08

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND                     | MEDIAN<br>WIND |
|----------------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------------------------------|----------------|
|                                  | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                                  |                |
| (N) 350-010                      | 1.5                                  | .4   | .2    |       |       |       |       |       |       |       |       | 2.2        | 4.8                              | 4.0            |
| 020-040                          | 2.6                                  | 4.1  | 4.3   | .9    | .2    |       |       |       |       |       |       | 12.1       | 8.8                              | 8.0            |
| 050-070                          | 1.1                                  | 5.6  | 3.9   | 1.3   | .2    |       |       |       |       |       |       | 12.1       | 9.5                              | 8.0            |
| (E) 080-100                      | 1.3                                  | 1.1  | 3.5   | .4    |       |       |       |       |       |       |       | 6.3        | 9.0                              | 10.0           |
| 110-130                          | 1.5                                  | 1.5  | .2    |       |       |       |       |       |       |       |       | 3.2        | 5.5                              | 6.0            |
| 140-160                          | .4                                   | .2   | .6    |       | .2    |       |       |       |       |       |       | 1.5        | 10.0                             | 10.0           |
| (S) 170-190                      | 1.3                                  | 3.2  | 3.7   | .6    | 1.5   | .2    | .9    |       |       |       |       | 11.5       | 12.8                             | 10.0           |
| 200-220                          | .2                                   | .9   | 2.6   | 1.1   | 1.1   | .6    |       | .2    | .2    |       |       | 6.9        | 16.6                             | 14.0           |
| 230-250                          | .4                                   | 2.4  | 2.8   | 1.7   | 1.7   | .4    |       |       |       |       |       | 9.5        | 13.4                             | 13.0           |
| (W) 260-280                      | .4                                   | .4   | .2    |       |       |       |       |       |       |       |       | 1.1        | 7.2                              | 8.0            |
| 290-310                          | .2                                   |      | .2    |       |       |       |       |       |       |       |       | .4         | 8.0                              | 8.0            |
| 320-340                          | .2                                   | .4   |       | .2    |       |       |       |       |       |       |       | .9         | 8.5                              | 6.0            |
| VARIABLE                         |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |
| CALM                             | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 32.3       | //////////////////////////////// |                |
| TOTALS                           | 11.1                                 | 20.2 | 22.2  | 6.2   | 4.9   | 1.2   | .9    | .2    | .2    |       |       | 100.0      | 7.3                              | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 462 |                                      |      |       |       |       |       |       |       |       |       |       |            |                                  |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 09-11

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | .8                                   | 1.2  | .4    | .1    |       |       |       |       |       |       |       | 2.5        | 6.7          | 6.0            |
| 020-040                | 3.0                                  | 3.8  | 3.7   | .8    |       |       |       |       |       |       |       | 11.3       | 8.3          | 8.0            |
| 050-070                | 2.9                                  | 5.1  | 5.7   | 1.6   | .3    |       |       |       |       |       |       | 15.5       | 9.3          | 8.0            |
| (E) 080-100            | 1.0                                  | 1.6  | 1.4   | .4    |       |       |       |       |       |       |       | 4.4        | 8.5          | 8.0            |
| 110-130                | .7                                   | .8   | .4    | .2    |       |       |       |       |       |       |       | 2.0        | 7.5          | 6.0            |
| 140-160                | .4                                   | .8   | .3    | .1    |       |       |       |       |       |       |       | 1.6        | 7.6          | 8.0            |
| (S) 170-190            | 1.2                                  | 3.0  | 3.3   | 1.7   | 1.5   | .3    | .7    |       | .1    |       |       | 11.8       | 13.4         | 12.0           |
| 200-220                | .7                                   | 1.2  | 4.3   | 1.7   | 1.7   | .1    | .3    |       |       | .2    |       | 10.0       | 14.5         | 12.5           |
| 230-250                | .2                                   | .7   | 3.0   | 1.0   | 1.3   | .4    |       |       |       |       |       | 6.5        | 14.8         | 14.0           |
| (W) 260-280            | .2                                   | .3   | .6    | .2    |       |       |       |       |       |       |       | 1.2        | 10.1         | 10.0           |
| 290-310                | .1                                   | .2   | .1    |       | .1    |       |       |       |       |       |       | .5         | 9.6          | 8.0            |
| 320-340                | .1                                   | .2   |       |       |       |       |       |       |       |       |       | .3         | 5.3          | 6.0            |
| VARIABLE               |                                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 32.3       | ////////     |                |
| TOTALS                 | 11.3                                 | 18.9 | 23.2  | 7.8   | 4.9   | .8    | 1.0   |       | .1    | .2    |       | 100.0      | 7.4          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1076

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 12-14

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010            | 1.8                  | 2.6  | 1.5   | .2    | .1    | .1    |       |       |       |       |       | 6.2        | 7.6              | 6.0            |
| 020-040                | 2.3                  | 4.5  | 6.4   | 1.3   | .4    | .1    |       |       |       |       |       | 15.0       | 9.8              | 10.0           |
| 050-070                | 1.6                  | 2.3  | 4.8   | 2.2   | .7    | .4    |       |       |       |       |       | 12.1       | 11.7             | 12.0           |
| (E) 080-100            | .4                   | .7   | 1.7   | .3    | .1    |       |       |       |       |       |       | 3.2        | 10.2             | 10.0           |
| 110-130                | .1                   | .4   | .7    | .3    | .2    |       |       |       |       |       |       | 1.7        | 11.8             | 12.0           |
| 140-160                | .2                   | .4   | .4    | .1    |       |       |       |       |       |       |       | 1.1        | 9.2              | 9.0            |
| (S) 170-190            | .1                   | 1.2  | 2.8   | 2.0   | 2.1   | .3    | .7    | .2    | .2    |       |       | 9.4        | 17.1             | 16.0           |
| 200-220                | .4                   | 1.2  | 2.5   | 1.4   | 1.7   | .4    | .4    | .2    | .1    |       |       | 8.2        | 16.1             | 15.5           |
| 230-250                | 1.2                  | 1.7  | 2.0   | 1.6   | 2.3   | .7    | .1    |       |       |       |       | 9.6        | 14.6             | 14.0           |
| (W) 260-280            | .4                   | 1.3  | 1.7   | .6    | .2    | .1    |       |       |       |       |       | 4.3        | 10.9             | 10.0           |
| 290-310                | .2                   | .7   | .4    | .2    | .1    |       |       |       |       |       |       | 1.6        | 9.9              | 8.0            |
| 320-340                | .2                   | .9   | .4    | .1    |       | .1    |       |       |       |       |       | 1.7        | 9.0              | 8.0            |
| VARIABLE               | .2                   |      |       |       |       |       |       |       |       |       |       | .2         | 3.0              | 3.0            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 25.8       | //////////////// |                |
| TOTALS                 | 9.1                  | 17.9 | 25.3  | 10.3  | 7.9   | 2.2   | 1.2   | .4    | .3    |       |       | 100.0      | 9.1              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1120

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 15-17

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND     | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|------------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |                  |                |
| (N) 350-010            | 2.3                  | 3.3  | 2.5   | .4    |       |       |       |       |       |       |       | 8.4        | 7.7              | 7.0            |
| 020-040                | 1.7                  | 4.5  | 3.7   | 1.4   | .7    |       |       |       |       |       |       | 11.9       | 9.9              | 8.0            |
| 050-070                | .5                   | 2.2  | 4.1   | 1.4   | 1.0   | .2    |       |       |       |       |       | 9.3        | 12.0             | 10.0           |
| (E) 080-100            | .3                   | .5   | 1.3   | .8    | .2    |       |       |       |       |       |       | 3.1        | 12.2             | 12.0           |
| 110-130                | .2                   | .8   | 1.1   | .5    | .3    |       |       |       |       |       |       | 2.9        | 12.0             | 12.0           |
| 140-160                | .1                   | .4   | .7    |       |       |       |       |       |       |       |       | 1.2        | 9.5              | 10.0           |
| (S) 170-190            | .2                   | .3   | 2.9   | 1.2   | 1.4   | .2    | .5    | .1    |       |       |       | 6.7        | 16.3             | 15.0           |
| 200-220                | .2                   | 1.0  | 3.3   | .8    | 2.9   | .2    | .6    | .1    |       |       |       | 9.0        | 16.2             | 16.0           |
| 230-250                | .6                   | 2.4  | 5.7   | 3.3   | 2.2   | .7    | .1    |       | .1    |       |       | 15.0       | 14.2             | 14.0           |
| (W) 260-280            | 1.3                  | 2.4  | 2.1   | 1.4   | .3    | .2    |       |       |       |       |       | 7.6        | 10.5             | 10.0           |
| 290-310                | 1.3                  | .8   | .1    | .1    |       |       |       |       |       |       |       | 2.3        | 5.6              | 4.0            |
| 320-340                | 1.4                  | .5   | .3    | .2    | .1    |       |       |       |       |       |       | 2.5        | 6.5              | 4.0            |
| VARIABLE               | .5                   |      |       |       |       |       |       |       |       |       |       | .5         | 3.6              | 4.0            |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 19.7       | //////////////// |                |
| TOTALS                 | 10.6                 | 19.1 | 27.8  | 11.5  | 9.1   | 1.5   | 1.2   | .2    | .1    |       |       | 100.0      | 9.6              | 10.0           |

TOTAL NUMBER OF OBSERVATIONS 1011

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 18-20

| DIRECTION<br>(DEGREES)           | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                                  | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010                      | 2.0                  | 3.7  | 1.5   |       |       |       |       |       |       |       |       | 7.2        | 6.6          | 6.0            |
| 020-040                          | 2.0                  | 5.1  | 2.6   | .2    | .2    |       |       |       |       |       |       | 10.1       | 7.6          | 6.0            |
| 050-070                          | 1.8                  | 3.5  | 3.7   | .4    | .7    |       |       |       |       |       |       | 10.1       | 9.0          | 8.0            |
| (E) 080-100                      | 1.1                  | 1.7  | 2.0   | .6    | .4    |       |       |       |       |       |       | 5.7        | 9.8          | 10.0           |
| 110-130                          | .2                   | 1.8  | 1.1   | .2    | .2    |       |       |       |       |       |       | 3.5        | 9.1          | 8.0            |
| 140-160                          | .2                   | .4   | .2    |       |       |       |       |       |       |       |       | .7         | 7.0          | 7.0            |
| (S) 170-190                      | .6                   | .6   | 2.8   | 2.2   | .6    | .2    | .6    | .2    |       |       |       | 7.5        | 15.1         | 14.0           |
| 200-220                          | .6                   | 2.0  | 3.1   | 1.5   | 1.3   | .4    | .2    | .4    |       |       |       | 9.4        | 14.2         | 12.0           |
| 230-250                          | 1.3                  | 3.5  | 4.6   | 2.4   | 2.0   | .6    | .2    |       |       |       |       | 14.5       | 12.9         | 12.0           |
| (W) 260-280                      | .9                   | 2.4  | 1.3   |       |       |       |       |       |       |       |       | 4.6        | 7.3          | 6.0            |
| 290-310                          | 1.1                  | .6   | .6    |       | .2    |       |       |       |       |       |       | 2.4        | 7.3          | 6.0            |
| 320-340                          | .6                   | .6   | .2    | .4    |       |       |       |       |       |       |       | 1.7        | 8.2          | 6.0            |
| VARIABLE                         |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                             | //////////////////// |      |       |       |       |       |       |       |       |       |       | 22.6       | ////////     |                |
| TOTALS                           | 12.4                 | 25.9 | 23.7  | 7.9   | 5.6   | 1.2   | 1.0   | .6    |       |       |       | 100.0      | 8.1          | 10.0           |
| TOTAL NUMBER OF OBSERVATIONS 544 |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: ALL

| DIRECTION  <br>(DEGREES)          | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL | MEAN     | MEDIAN |
|-----------------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--------|
|                                   | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |       |          |        |
| (N) 350-010                       | 1.7                  | 2.3  | 1.3   | .2    | .0    | .0    |       |       |       |       |       | 5.5   | 7.3      | 6.0    |
| 020-040                           | 2.3                  | 4.3  | 4.3   | 1.0   | .3    | .0    |       |       |       |       |       | 12.4  | 9.1      | 8.0    |
| 050-070                           | 1.6                  | 3.5  | 4.6   | 1.5   | .6    | .1    |       |       |       |       |       | 12.0  | 10.4     | 10.0   |
| (E) 080-100                       | .7                   | 1.0  | 1.8   | .5    | .1    |       |       |       |       |       |       | 4.1   | 9.8      | 10.0   |
| 110-130                           | .4                   | .9   | .7    | .3    | .1    |       |       |       |       |       |       | 2.5   | 9.5      | 8.0    |
| 140-160                           | .2                   | .5   | .5    | .0    | .0    |       |       |       |       |       |       | 1.2   | 8.7      | 8.0    |
| (S) 170-190                       | .6                   | 1.6  | 3.0   | 1.6   | 1.5   | .2    | .7    | .1    | .1    |       |       | 9.4   | 15.0     | 14.0   |
| 200-220                           | .4                   | 1.2  | 3.2   | 1.3   | 1.9   | .3    | .4    | .1    | .0    | .0    |       | 8.9   | 15.5     | 14.0   |
| 230-250                           | .7                   | 1.9  | 3.6   | 2.0   | 1.9   | .6    | .1    |       | .0    |       |       | 10.7  | 14.1     | 14.0   |
| (W) 260-280                       | .6                   | 1.3  | 1.3   | .5    | .1    | .1    |       |       |       |       |       | 4.0   | 10.0     | 10.0   |
| 290-310                           | .5                   | .5   | .3    | .1    | .1    |       |       |       |       |       |       | 1.4   | 7.6      | 6.0    |
| 320-340                           | .5                   | .5   | .2    | .1    | .0    | .0    |       |       |       |       |       | 1.4   | 7.6      | 6.0    |
| VARIABLE                          | .2                   |      |       |       |       |       |       |       |       |       |       | .2    | 3.4      | 4.0    |
| CALM                              | //////////////////// |      |       |       |       |       |       |       |       |       |       | 26.3  | //////// |        |
| TOTALS                            | 10.4                 | 19.5 | 24.8  | 9.1   | 6.6   | 1.3   | 1.2   | .2    | .1    |       |       | 100.0 | 8.4      | 10.0   |
| TOTAL NUMBER OF OBSERVATIONS 4213 |                      |      |       |       |       |       |       |       |       |       |       |       |          |        |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).

AND/OR

VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |             |                |
| (N) 350-010            | 1.6                  | 1.6  | 1.0   |       |       |       |       |       |       |       |       | 4.2        | 7.1         | 6.0            |
| 020-040                | 3.5                  | 4.5  | 1.6   | .6    | .3    |       |       |       |       |       |       | 10.6       | 7.4         | 6.0            |
| 050-070                | 1.6                  | 2.6  | 2.3   | 1.0   |       |       |       |       |       |       |       | 7.4        | 8.8         | 8.0            |
| (E) 080-100            |                      |      | .3    |       |       |       |       |       |       |       |       | .3         | 10.0        | 10.0           |
| 110-130                |                      | .3   | .6    |       |       |       |       |       |       |       |       | 1.0        | 9.3         | 10.0           |
| 140-160                |                      | .6   |       |       |       |       |       |       |       |       |       | .6         | 7.0         | 7.0            |
| (S) 170-190            | .6                   | 1.6  | 4.8   | 1.3   | 2.9   | 1.0   | 1.3   | .6    | .3    |       |       | 14.5       | 17.7        | 16.0           |
| 200-220                | .3                   | 2.6  | 1.6   | 2.9   | 4.2   | 1.0   | 1.3   | .6    | .6    |       |       | 15.1       | 19.4        | 20.0           |
| 230-250                | 1.0                  | 1.6  | 2.9   | .6    | 4.2   | 1.6   | .3    |       |       |       |       | 12.2       | 17.0        | 18.0           |
| (W) 260-280            | .3                   | .6   | 1.6   | .6    |       |       |       |       |       |       |       | 3.2        | 11.7        | 12.0           |
| 290-310                | .3                   | .3   | .3    |       | .3    |       |       |       |       |       |       | 1.3        | 11.0        | 10.0           |
| 320-340                | .3                   | .3   | .3    |       |       | .3    |       |       |       |       |       | 1.3        | 12.0        | 9.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |             |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 28.3       | ////////    |                |
| TOTALS                 | 9.5                  | 16.6 | 17.3  | 7.0   | 11.9  | 3.9   | 2.9   | 1.2   | .9    |       |       | 100.0      | 10.2        | 12.0           |

TOTAL NUMBER OF OBSERVATIONS 311

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: ALL HOURS: ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                  |      |       |       |       |       |       |       |       |       |       | TOTAL | MEAN                             | MEDIAN |
|------------------------|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|--------|
|                        | 1-4                                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |       |                                  |        |
| (N) 350-010            | 1.3                                  | 1.8  | 1.3   | .2    | .0    | .0    |       |       |       |       |       | 4.6   | 7.5                              | 6.0    |
| 020-040                | 1.1                                  | 2.2  | 3.0   | .7    | .2    | .0    | .0    | .0    |       |       |       | 7.3   | 9.8                              | 10.0   |
| 050-070                | 1.0                                  | 2.2  | 3.0   | .9    | .4    | .1    | .0    |       |       |       |       | 7.7   | 10.4                             | 10.0   |
| (E) 080-100            | .7                                   | 1.0  | 1.2   | .4    | .1    | .0    | .0    |       |       |       |       | 3.3   | 9.4                              | 9.5    |
| 110-130                | .6                                   | .7   | .7    | .2    | .1    | .0    | .0    | .0    |       |       |       | 2.4   | 9.4                              | 8.0    |
| 140-160                | .4                                   | .5   | .4    | .1    | .0    | .0    |       |       |       |       |       | 1.4   | 8.3                              | 8.0    |
| (S) 170-190            | .9                                   | 1.5  | 2.2   | .9    | .7    | .1    | .1    | .0    | .0    |       |       | 6.4   | 11.9                             | 10.0   |
| 200-220                | .7                                   | 1.8  | 3.9   | 1.7   | 1.3   | .2    | .2    | .0    | .0    | .0    |       | 9.8   | 13.2                             | 12.0   |
| 230-250                | 1.0                                  | 2.6  | 5.8   | 3.7   | 2.2   | .3    | .2    | .0    | .0    |       |       | 15.9  | 13.5                             | 14.0   |
| (W) 260-280            | 1.0                                  | 2.4  | 4.0   | 1.7   | .7    | .1    | .0    | .0    | .0    |       |       | 9.9   | 11.3                             | 10.0   |
| 290-310                | .8                                   | 1.2  | 1.1   | .3    | .1    | .0    | .0    |       |       |       |       | 3.5   | 8.7                              | 8.0    |
| 320-340                | .7                                   | .9   | .5    | .1    | .1    | .0    |       |       |       |       |       | 2.3   | 7.7                              | 6.0    |
| VARIABLE               | .2                                   | .1   | .0    | .0    |       |       |       |       |       |       |       | .3    | 4.9                              | 4.0    |
| CALM                   | //////////////////////////////////// |      |       |       |       |       |       |       |       |       |       | 25.2  | //////////////////////////////// |        |
| TOTALS                 | 10.4                                 | 18.9 | 27.1  | 10.9  | 5.9   | .8    | .5    |       |       |       |       | 100.0 | 8.3                              | 10.0   |

TOTAL NUMBER OF OBSERVATIONS: 55166

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: ALL HOURS: ALL

CATEGORY A: CEILING GE 200 BUT LESS THAN 1500 FEET WITH VISIBILITY GE 1/2 MILE (0800 METERS).  
AND/OR  
VISIBILITY GE 1/2 MILE (0800 METERS) BUT LESS THAN 3 MILES (4800 METERS) WITH CEILING GE 200 FEET.

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS  |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND | MEDIAN<br>WIND |
|------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|----------------|
|                        | 1-4                  | 5-9  | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-49 | 50-64 | GE 65 |            |              |                |
| (N) 350-010            | 1.1                  | 1.3  | .8    | .0    | .0    |       |       |       |       |       |       | 3.3        | 7.0          | 6.0            |
| 020-040                | 1.6                  | 2.3  | 1.6   | .1    | .0    |       |       |       |       |       |       | 5.5        | 7.6          | 8.0            |
| 050-070                | 1.4                  | 1.9  | 1.4   | .4    |       |       |       |       |       |       |       | 5.1        | 7.9          | 8.0            |
| (E) 080-100            | .5                   | .8   | .2    | .0    | .0    |       |       |       |       |       |       | 1.6        | 6.8          | 6.0            |
| 110-130                | .7                   | .4   | .4    | .1    | .1    |       |       |       |       |       |       | 1.6        | 7.7          | 6.0            |
| 140-160                | .7                   | .4   | .4    | .1    | .1    | .1    |       |       |       |       |       | 2.0        | 9.1          | 6.0            |
| (S) 170-190            | 1.2                  | 2.3  | 3.7   | 1.9   | 2.0   | .4    | .6    | .1    | .0    |       |       | 12.2       | 14.0         | 12.0           |
| 200-220                | 1.0                  | 3.3  | 7.0   | 3.4   | 3.6   | .8    | 1.1   | .2    | .2    |       |       | 20.5       | 15.3         | 14.0           |
| 230-250                | 1.0                  | 2.1  | 4.4   | 2.4   | 2.4   | .8    | .8    | .1    |       |       |       | 14.1       | 15.4         | 14.0           |
| (W) 260-280            | .7                   | .8   | 1.5   | .6    | .3    | .1    | .1    |       |       |       |       | 4.1        | 11.5         | 11.0           |
| 290-310                | .4                   | .4   | .4    | .1    | .0    | .0    | .1    |       |       |       |       | 1.4        | 9.6          | 8.0            |
| 320-340                | .4                   | .5   | .2    | .0    | .1    | .0    |       |       |       |       |       | 1.3        | 8.2          | 8.0            |
| VARIABLE               |                      |      |       |       |       |       |       |       |       |       |       |            |              |                |
| CALM                   | //////////////////// |      |       |       |       |       |       |       |       |       |       | 27.2       | ////////     |                |
| TOTALS                 | 10.7                 | 16.5 | 22.0  | 9.1   | 8.6   | 2.2   | 2.7   | .4    | .2    |       |       | 100.0      | 9.2          | 10.0           |

TOTAL NUMBER OF OBSERVATIONS: 2706

0 - 1 - 1

PART D

CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

CEILING VS VISIBILITY--PERCENT OCCURRENCE FREQUENCY (POF).

CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY IS A BIVARIATE DISTRIBUTION OF PERCENTAGE FREQUENCY BY CLASSES OF CEILING (FROM ZERO FEET TO 20,000 FEET-- "NO CEILING" IS A SEPARATE CLASS) VERSUS VISIBILITY CLASSES (FROM ZERO MILES (METERS) TO GREATER THAN OR EQUAL TO 7 STATUTE MILES (11,200 METERS)). THE TABLES SUMMARIZE THE DATA AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

BECAUSE OF THE CUMULATIVE NATURE OF THESE SUMMARIES, IT IS POSSIBLE TO DETERMINE THE PERCENTAGE OCCURRENCE FREQUENCY (POF) FOR ANY GIVEN CEILING AND/OR VISIBILITY LIMIT(S), EITHER SEPARATELY OR IN ANY COMBINATION. TOTALS PROGRESS FROM RIGHT TO LEFT AND FROM BOTTOM TO TOP. TO DETERMINE CEILING ALONE, REFER TO THE EXTREME RIGHT-HAND COLUMN (ZERO VISIBILITY). TO DETERMINE VISIBILITY ALONE, REFER TO THE BOTTOM ROW (ZERO CEILINGS). DETERMINE THE POF THAT MEETS OR EXCEEDS ANY GIVEN SET OF MAXIMA BY READING THE VALUE AT THE INTERSECTION OF THE APPROPRIATE CEILING ROW AND VISIBILITY COLUMN.

NOTE 1: IN JANUARY 1968, METAR STATIONS BEGAN REPORTING VISIBILITIES TO 6 STATUTE MILES OR 9000 METERS. VALUES EXCEEDING 9000 METERS ARE REPORTED AS "9999."

NOTE 2: FOR OVERSEAS CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS GREATER THAN 5000 FEET APPEAR IN THE 5000 FEET CLASS.

CONVERSIONS: 1 STATUTE MILE = 1,609.344 METERS = .868391 NAUTICAL MILES.  
FOR CONVENIENCE, THE CONVERSION OFTEN USED IS 1 STATUTE MILE = 1,600 METERS.

SKY COVER--PERCENT OCCURRENCE FREQUENCY.

ALSO CREATED FROM HOURLY OBSERVATIONS, THIS SUMMARY GIVES PERCENTAGE OCCURRENCE FREQUENCY (POF) OF SKY COVER IN EIGHTHS FOR SYNOPTIC STATIONS, BUT AS CLEAR, SCATTERED, BROKEN, OVERCAST, PARTIALLY OBSCURED, OR TOTALLY OBSCURED FOR AIRWAYS STATIONS. FOR AIRWAYS STATIONS, THIS SUMMARY ALSO GIVES POF FOR SKY COVER GREATER THAN ONE-HALF (I.E., 6/10). DATA IS SUMMARIZED THE SAME AS FOR PREVIOUS TABLE.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR METAR REPORTING STATIONS.

NOTE 2. AIRWAYS STATIONS THAT HAVE REPORTED IN SYNOPTIC CODE HAVE HAD THEIR  
SYNOPTIC SKY COVER REPORTS CONVERTED AS FOLLOWS:

0/8.....CLEAR

1/8 THRU 4/8.....SCATTERED

5/8 THRU 7/8.....BROKEN

8/8.....OVERCAST

NOTE 3. "PARTIAL OBSCURATION" IS A SEPARATE CATEGORY NOT INCLUDED IN  
COMPUTATION OF "GREATER THAN 1/2" PERCENTAGES. "TOTAL OBSCURATIONS,"  
HOWEVER, ARE INCLUDED.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 21.1                 | 55.1     | 68.2     | 73.5     | 78.3     | 79.6     | 79.6     | 80.8     | 81.6     | 81.6     | 82.0     | 82.2     | 82.2     | 82.4     | 83.2     | 84.6     |
| GE 4500               | 21.1                 | 55.1     | 68.2     | 73.5     | 78.3     | 79.6     | 79.6     | 80.8     | 81.6     | 81.6     | 82.0     | 82.2     | 82.2     | 82.4     | 83.2     | 84.6     |
| GE 4000               | 21.3                 | 55.3     | 68.6     | 73.9     | 78.7     | 80.0     | 80.0     | 81.2     | 82.0     | 82.0     | 82.4     | 82.6     | 82.6     | 82.8     | 83.6     | 85.0     |
| GE 3500               | 21.5                 | 55.5     | 69.0     | 74.3     | 79.1     | 80.4     | 80.4     | 81.6     | 82.4     | 82.4     | 82.8     | 83.0     | 83.0     | 83.2     | 84.0     | 85.4     |
| GE 3000               | 21.9                 | 55.9     | 69.4     | 74.7     | 79.6     | 80.8     | 80.8     | 82.0     | 82.8     | 82.8     | 83.2     | 83.4     | 83.4     | 83.6     | 84.4     | 85.8     |
| GE 2500               | 24.3                 | 58.7     | 73.1     | 79.4     | 85.4     | 87.0     | 87.0     | 88.7     | 89.5     | 89.5     | 89.9     | 90.1     | 90.1     | 90.3     | 91.1     | 92.5     |
| GE 2000               | 25.3                 | 60.3     | 75.9     | 82.6     | 89.7     | 91.3     | 91.3     | 92.9     | 93.9     | 93.9     | 94.3     | 94.5     | 94.5     | 94.7     | 95.5     | 97.0     |
| GE 1800               | 25.7                 | 60.7     | 76.9     | 83.6     | 90.9     | 92.7     | 92.7     | 94.3     | 95.3     | 95.3     | 95.7     | 96.0     | 96.0     | 96.2     | 97.0     | 98.4     |
| GE 1500               | 25.7                 | 60.7     | 76.9     | 83.8     | 91.3     | 93.1     | 93.1     | 94.9     | 96.0     | 96.0     | 96.6     | 96.8     | 96.8     | 97.0     | 97.8     | 99.2     |
| GE 1200               | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.5     | 93.5     | 95.3     | 96.4     | 96.4     | 97.0     | 97.2     | 97.2     | 97.4     | 98.2     | 99.6     |
| GE 1000               | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.5     | 93.5     | 95.3     | 96.4     | 96.4     | 97.0     | 97.2     | 97.2     | 97.4     | 98.2     | 99.6     |
| GE 900                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.5     | 93.5     | 95.3     | 96.4     | 96.4     | 97.0     | 97.2     | 97.2     | 97.4     | 98.2     | 99.6     |
| GE 800                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.5     | 93.5     | 95.3     | 96.4     | 96.4     | 97.0     | 97.2     | 97.2     | 97.4     | 98.2     | 99.6     |
| GE 700                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.5     | 93.5     | 95.3     | 96.4     | 96.4     | 97.0     | 97.2     | 97.2     | 97.4     | 98.2     | 99.6     |
| GE 600                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.5     | 93.5     | 95.3     | 96.4     | 96.4     | 97.0     | 97.2     | 97.2     | 97.4     | 98.2     | 99.6     |
| GE 500                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.7     | 93.7     | 95.5     | 96.6     | 96.6     | 97.2     | 97.4     | 97.4     | 97.6     | 98.4     | 99.8     |
| GE 400                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.7     | 93.7     | 95.5     | 96.6     | 96.6     | 97.2     | 97.4     | 97.4     | 97.6     | 98.4     | 99.8     |
| GE 300                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.7     | 93.7     | 95.5     | 96.6     | 96.6     | 97.2     | 97.4     | 97.4     | 97.6     | 98.4     | 99.8     |
| GE 200                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.7     | 93.7     | 95.5     | 96.6     | 96.6     | 97.2     | 97.4     | 97.4     | 97.6     | 98.4     | 99.8     |
| GE 100                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.7     | 93.7     | 95.5     | 96.6     | 96.6     | 97.2     | 97.4     | 97.4     | 97.6     | 98.4     | 99.8     |
| GE 000                | 25.7                 | 60.9     | 77.1     | 84.0     | 91.7     | 93.7     | 93.7     | 95.5     | 96.6     | 96.6     | 97.2     | 97.4     | 97.4     | 97.6     | 98.4     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 494

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 18.9                 | 38.9     | 56.2     | 58.2     | 67.6     | 70.2     | 71.0     | 75.2     | 75.8     | 75.8     | 76.2     | 76.7     | 77.0     | 77.0     | 77.4     | 79.7     |
| GE 4500               | 19.0                 | 39.0     | 56.3     | 58.3     | 67.7     | 70.3     | 71.0     | 75.3     | 75.9     | 75.9     | 76.3     | 76.8     | 77.1     | 77.1     | 77.5     | 79.7     |
| GE 4000               | 19.6                 | 39.7     | 57.0     | 59.0     | 68.4     | 71.1     | 71.9     | 76.3     | 76.9     | 76.9     | 77.2     | 77.7     | 78.1     | 78.1     | 78.4     | 80.7     |
| GE 3500               | 20.4                 | 40.5     | 57.8     | 59.8     | 69.3     | 72.0     | 72.8     | 77.1     | 77.7     | 77.7     | 78.1     | 78.6     | 79.0     | 79.0     | 79.3     | 81.6     |
| GE 3000               | 21.7                 | 41.7     | 59.8     | 61.9     | 71.7     | 74.3     | 75.1     | 79.5     | 80.1     | 80.1     | 80.4     | 81.0     | 81.3     | 81.3     | 81.7     | 83.9     |
| GE 2500               | 23.7                 | 43.8     | 62.5     | 64.9     | 75.4     | 78.4     | 79.2     | 83.7     | 84.3     | 84.3     | 84.7     | 85.2     | 85.6     | 85.6     | 86.0     | 88.3     |
| GE 2000               | 25.0                 | 45.4     | 65.0     | 67.9     | 79.8     | 83.2     | 84.1     | 89.0     | 89.7     | 89.7     | 90.3     | 91.0     | 91.3     | 91.3     | 91.7     | 94.0     |
| GE 1800               | 25.1                 | 45.5     | 65.4     | 68.3     | 80.3     | 84.0     | 84.9     | 90.0     | 90.8     | 90.8     | 91.4     | 92.2     | 92.5     | 92.5     | 93.0     | 95.3     |
| GE 1500               | 25.3                 | 45.7     | 65.7     | 68.5     | 81.0     | 85.0     | 85.9     | 91.6     | 92.5     | 92.5     | 93.2     | 94.0     | 94.3     | 94.3     | 95.0     | 97.2     |
| GE 1200               | 25.3                 | 45.7     | 65.8     | 68.7     | 81.2     | 85.2     | 86.2     | 92.3     | 93.3     | 93.3     | 94.0     | 94.8     | 95.1     | 95.1     | 95.7     | 98.0     |
| GE 1000               | 25.3                 | 45.7     | 65.9     | 68.8     | 81.4     | 85.5     | 86.4     | 93.0     | 94.1     | 94.2     | 95.0     | 95.8     | 96.2     | 96.2     | 96.8     | 99.0     |
| GE 900                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.5     | 85.6     | 86.5     | 93.0     | 94.2     | 94.3     | 95.0     | 95.9     | 96.3     | 96.3     | 96.9     | 99.1     |
| GE 800                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.6     | 85.7     | 86.7     | 93.2     | 94.3     | 94.5     | 95.3     | 96.2     | 96.5     | 96.5     | 97.1     | 99.4     |
| GE 700                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.7     | 85.8     | 86.8     | 93.3     | 94.4     | 94.6     | 95.4     | 96.3     | 96.6     | 96.6     | 97.2     | 99.5     |
| GE 600                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.7     | 85.8     | 86.8     | 93.3     | 94.4     | 94.6     | 95.4     | 96.3     | 96.7     | 96.7     | 97.3     | 99.6     |
| GE 500                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.7     | 85.8     | 86.8     | 93.3     | 94.4     | 94.6     | 95.4     | 96.4     | 96.8     | 96.8     | 97.4     | 99.7     |
| GE 400                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.7     | 85.8     | 86.8     | 93.3     | 94.4     | 94.6     | 95.4     | 96.4     | 96.8     | 96.8     | 97.4     | 99.7     |
| GE 300                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.7     | 85.8     | 86.8     | 93.3     | 94.4     | 94.6     | 95.4     | 96.4     | 96.8     | 96.8     | 97.4     | 99.7     |
| GE 200                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.7     | 85.8     | 86.8     | 93.3     | 94.4     | 94.6     | 95.4     | 96.4     | 96.8     | 96.8     | 97.4     | 99.8     |
| GE 100                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.7     | 85.8     | 86.8     | 93.3     | 94.4     | 94.6     | 95.4     | 96.4     | 96.8     | 96.8     | 97.4     | 100.0    |
| GE 000                | 25.3                 | 45.7     | 65.9     | 68.8     | 81.7     | 85.8     | 86.8     | 93.3     | 94.4     | 94.6     | 95.4     | 96.4     | 96.8     | 96.8     | 97.4     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1150

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 26.2                 | 49.0     | 65.4     | 69.7     | 75.9     | 77.4     | 77.6     | 78.1     | 78.5     | 78.5     | 78.8     | 79.0     | 79.0     | 79.0     | 79.0     | 79.2     |
| GE 4500               | 26.2                 | 49.0     | 65.4     | 69.7     | 75.9     | 77.4     | 77.6     | 78.1     | 78.5     | 78.5     | 78.8     | 79.0     | 79.0     | 79.0     | 79.0     | 79.2     |
| GE 4000               | 26.5                 | 49.3     | 65.8     | 70.2     | 76.3     | 77.8     | 78.1     | 78.5     | 79.0     | 79.0     | 79.2     | 79.4     | 79.4     | 79.4     | 79.4     | 79.7     |
| GE 3500               | 27.1                 | 49.9     | 66.5     | 70.8     | 76.9     | 78.4     | 78.7     | 79.1     | 79.6     | 79.6     | 79.9     | 80.0     | 80.0     | 80.0     | 80.0     | 80.3     |
| GE 3000               | 29.0                 | 51.8     | 68.9     | 73.3     | 79.5     | 81.0     | 81.3     | 81.7     | 82.2     | 82.2     | 82.4     | 82.6     | 82.6     | 82.6     | 82.6     | 82.9     |
| GE 2500               | 32.2                 | 55.0     | 72.6     | 77.1     | 83.9     | 85.5     | 85.8     | 86.4     | 87.0     | 87.0     | 87.2     | 87.4     | 87.4     | 87.4     | 87.4     | 87.7     |
| GE 2000               | 34.6                 | 57.8     | 76.0     | 80.9     | 88.0     | 90.1     | 90.6     | 91.7     | 92.2     | 92.2     | 92.5     | 92.8     | 92.8     | 92.8     | 92.8     | 93.1     |
| GE 1800               | 34.9                 | 58.0     | 77.2     | 82.2     | 89.5     | 91.7     | 92.3     | 93.5     | 94.2     | 94.2     | 94.5     | 95.0     | 95.0     | 95.0     | 95.1     | 95.4     |
| GE 1500               | 35.2                 | 58.4     | 77.8     | 82.9     | 90.6     | 93.2     | 93.7     | 95.0     | 95.7     | 95.7     | 96.1     | 96.7     | 96.7     | 96.7     | 96.8     | 97.1     |
| GE 1200               | 35.3                 | 58.5     | 77.9     | 83.0     | 90.9     | 93.7     | 94.3     | 95.7     | 96.5     | 96.5     | 96.8     | 97.4     | 97.4     | 97.4     | 97.6     | 97.9     |
| GE 1000               | 35.4                 | 58.6     | 78.0     | 83.1     | 91.1     | 94.0     | 94.6     | 96.3     | 97.0     | 97.0     | 97.3     | 98.0     | 98.0     | 98.0     | 98.2     | 98.5     |
| GE 900                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.1     | 94.7     | 96.5     | 97.2     | 97.2     | 97.5     | 98.1     | 98.1     | 98.1     | 98.4     | 98.7     |
| GE 800                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.1     | 94.8     | 96.6     | 97.4     | 97.4     | 97.8     | 98.4     | 98.4     | 98.4     | 98.7     | 98.9     |
| GE 700                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.1     | 94.8     | 96.7     | 97.5     | 97.5     | 98.0     | 98.7     | 98.7     | 98.7     | 98.9     | 99.2     |
| GE 600                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.2     | 94.9     | 96.8     | 97.6     | 97.6     | 98.0     | 98.8     | 98.8     | 98.8     | 99.1     | 99.4     |
| GE 500                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.2     | 94.9     | 97.0     | 97.9     | 97.9     | 98.3     | 99.1     | 99.2     | 99.2     | 99.6     | 99.8     |
| GE 400                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.2     | 94.9     | 97.0     | 97.9     | 97.9     | 98.3     | 99.1     | 99.2     | 99.2     | 99.6     | 99.8     |
| GE 300                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.2     | 94.9     | 97.0     | 97.9     | 98.0     | 98.4     | 99.2     | 99.3     | 99.3     | 99.6     | 99.9     |
| GE 200                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.2     | 94.9     | 97.0     | 97.9     | 98.0     | 98.4     | 99.2     | 99.3     | 99.3     | 99.7     | 100.0    |
| GE 100                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.2     | 94.9     | 97.0     | 97.9     | 98.0     | 98.4     | 99.2     | 99.3     | 99.3     | 99.7     | 100.0    |
| GE 000                | 35.4                 | 58.6     | 78.1     | 83.1     | 91.2     | 94.2     | 94.9     | 97.0     | 97.9     | 98.0     | 98.4     | 99.2     | 99.3     | 99.3     | 99.7     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1127

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 35.1                 | 66.0     | 71.3     | 72.3     | 73.8     | 74.0     | 74.1     | 74.1     | 74.1     | 74.1     | 74.1     | 74.2     | 74.2     | 74.2     | 74.3     | 74.3     |
| GE 4500               | 35.2                 | 66.1     | 71.4     | 72.4     | 73.9     | 74.1     | 74.2     | 74.2     | 74.2     | 74.2     | 74.2     | 74.3     | 74.3     | 74.3     | 74.4     | 74.4     |
| GE 4000               | 35.9                 | 66.9     | 72.2     | 73.1     | 74.6     | 74.9     | 75.0     | 75.0     | 75.0     | 75.0     | 75.0     | 75.1     | 75.1     | 75.1     | 75.2     | 75.3     |
| GE 3500               | 36.2                 | 67.2     | 72.6     | 73.6     | 75.1     | 75.4     | 75.4     | 75.4     | 75.4     | 75.4     | 75.4     | 75.5     | 75.5     | 75.5     | 75.6     | 75.7     |
| GE 3000               | 40.1                 | 71.2     | 77.2     | 78.3     | 79.8     | 80.1     | 80.2     | 80.2     | 80.2     | 80.2     | 80.2     | 80.3     | 80.3     | 80.3     | 80.4     | 80.5     |
| GE 2500               | 45.3                 | 76.8     | 83.2     | 84.3     | 86.2     | 86.6     | 86.6     | 86.7     | 86.7     | 86.7     | 86.8     | 86.9     | 86.9     | 86.9     | 87.0     | 87.1     |
| GE 2000               | 49.8                 | 81.4     | 89.4     | 91.0     | 93.1     | 94.0     | 94.1     | 94.7     | 94.8     | 94.8     | 94.9     | 95.0     | 95.1     | 95.1     | 95.1     | 95.2     |
| GE 1800               | 50.8                 | 82.5     | 90.6     | 92.2     | 94.3     | 95.4     | 95.6     | 96.2     | 96.3     | 96.3     | 96.4     | 96.5     | 96.5     | 96.5     | 96.7     | 96.8     |
| GE 1500               | 51.5                 | 83.4     | 91.6     | 93.2     | 95.4     | 96.5     | 96.7     | 97.5     | 97.7     | 97.7     | 97.8     | 97.9     | 97.9     | 97.9     | 98.1     | 98.2     |
| GE 1200               | 51.5                 | 83.5     | 91.8     | 93.4     | 95.8     | 96.9     | 97.1     | 98.0     | 98.2     | 98.2     | 98.4     | 98.5     | 98.6     | 98.6     | 98.9     | 99.0     |
| GE 1000               | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.0     | 97.2     | 98.3     | 98.6     | 98.6     | 98.8     | 98.9     | 99.0     | 99.0     | 99.3     | 99.3     |
| GE 900                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.0     | 97.2     | 98.3     | 98.6     | 98.6     | 98.8     | 98.9     | 99.0     | 99.0     | 99.3     | 99.3     |
| GE 800                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.6     | 98.9     | 98.9     | 99.1     | 99.2     | 99.3     | 99.3     | 99.5     | 99.6     |
| GE 700                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.6     | 98.9     | 98.9     | 99.1     | 99.2     | 99.3     | 99.3     | 99.5     | 99.6     |
| GE 600                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.6     | 98.9     | 98.9     | 99.1     | 99.2     | 99.3     | 99.3     | 99.5     | 99.6     |
| GE 500                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.7     | 99.1     | 99.1     | 99.3     | 99.3     | 99.4     | 99.4     | 99.8     | 99.9     |
| GE 400                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.7     | 99.1     | 99.1     | 99.3     | 99.3     | 99.4     | 99.4     | 99.9     | 100.0    |
| GE 300                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.7     | 99.1     | 99.1     | 99.3     | 99.3     | 99.4     | 99.4     | 99.9     | 100.0    |
| GE 200                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.7     | 99.1     | 99.1     | 99.3     | 99.3     | 99.4     | 99.4     | 99.9     | 100.0    |
| GE 100                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.7     | 99.1     | 99.1     | 99.3     | 99.3     | 99.4     | 99.4     | 99.9     | 100.0    |
| GE 000                | 51.6                 | 83.6     | 91.9     | 93.5     | 95.9     | 97.3     | 97.5     | 98.7     | 99.1     | 99.1     | 99.3     | 99.3     | 99.4     | 99.4     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1071

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN

PERIOD OF RECORD: NOV 74 - OCT 89

LST TO UTC: - 1

MONTH: JAN HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 41.3                 | 73.1     | 76.7     | 78.2     | 79.2     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     |
| GE 4500               | 41.6                 | 73.4     | 77.0     | 78.5     | 79.5     | 79.7     | 79.7     | 79.7     | 79.7     | 79.7     | 79.7     | 79.7     | 79.7     | 79.7     | 79.7     | 79.7     |
| GE 4000               | 42.0                 | 73.8     | 77.4     | 78.9     | 79.8     | 80.0     | 80.0     | 80.0     | 80.0     | 80.0     | 80.0     | 80.0     | 80.0     | 80.0     | 80.0     | 80.0     |
| GE 3500               | 42.8                 | 74.6     | 78.2     | 79.7     | 80.7     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     |
| GE 3000               | 46.4                 | 78.4     | 82.1     | 83.6     | 84.8     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     |
| GE 2500               | 49.3                 | 81.3     | 86.6     | 88.0     | 89.2     | 89.7     | 89.7     | 90.0     | 90.0     | 90.0     | 90.0     | 90.2     | 90.2     | 90.2     | 90.2     | 90.2     |
| GE 2000               | 53.4                 | 85.6     | 91.3     | 92.8     | 95.2     | 96.2     | 96.2     | 96.7     | 96.7     | 96.7     | 96.7     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9     |
| GE 1800               | 53.9                 | 86.1     | 92.0     | 93.6     | 96.2     | 97.2     | 97.2     | 97.7     | 97.7     | 97.7     | 97.7     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9     |
| GE 1500               | 54.3                 | 86.4     | 92.5     | 94.1     | 96.7     | 98.0     | 98.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     |
| GE 1200               | 54.3                 | 86.4     | 92.5     | 94.1     | 96.7     | 98.0     | 98.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     |
| GE 1000               | 54.3                 | 86.4     | 92.5     | 94.1     | 96.7     | 98.0     | 98.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     |
| GE 900                | 54.3                 | 86.4     | 92.5     | 94.1     | 96.7     | 98.0     | 98.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     |
| GE 800                | 54.3                 | 86.4     | 92.5     | 94.1     | 96.7     | 98.0     | 98.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     |
| GE 700                | 54.3                 | 86.4     | 92.5     | 94.1     | 96.7     | 98.0     | 98.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     |
| GE 600                | 54.4                 | 86.6     | 92.6     | 94.3     | 96.9     | 98.2     | 98.2     | 99.3     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     |
| GE 500                | 54.4                 | 86.6     | 92.6     | 94.3     | 96.9     | 98.2     | 98.2     | 99.3     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    |
| GE 400                | 54.4                 | 86.6     | 92.6     | 94.3     | 96.9     | 98.2     | 98.2     | 99.3     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    |
| GE 300                | 54.4                 | 86.6     | 92.6     | 94.3     | 96.9     | 98.2     | 98.2     | 99.3     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    |
| GE 200                | 54.4                 | 86.6     | 92.6     | 94.3     | 96.9     | 98.2     | 98.2     | 99.3     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    |
| GE 100                | 54.4                 | 86.6     | 92.6     | 94.3     | 96.9     | 98.2     | 98.2     | 99.3     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    |
| GE 000                | 54.4                 | 86.6     | 92.6     | 94.3     | 96.9     | 98.2     | 98.2     | 99.3     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 610

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 27.9                 | 54.4     | 66.3     | 68.9     | 73.9     | 75.2     | 75.5     | 76.9     | 77.2     | 77.2     | 77.4     | 77.7     | 77.7     | 77.8     | 78.0     | 78.8     |
| GE 4500               | 28.0                 | 54.5     | 66.4     | 69.0     | 74.0     | 75.3     | 75.6     | 77.0     | 77.3     | 77.3     | 77.5     | 77.7     | 77.8     | 77.9     | 78.1     | 78.9     |
| GE 4000               | 28.5                 | 55.1     | 67.0     | 69.6     | 74.6     | 75.9     | 76.2     | 77.6     | 77.9     | 77.9     | 78.1     | 78.4     | 78.5     | 78.5     | 78.7     | 79.5     |
| GE 3500               | 29.1                 | 55.6     | 67.6     | 70.2     | 75.3     | 76.6     | 76.9     | 78.2     | 78.6     | 78.6     | 78.8     | 79.0     | 79.1     | 79.1     | 79.3     | 80.2     |
| GE 3000               | 31.4                 | 58.0     | 70.4     | 73.1     | 78.3     | 79.6     | 79.9     | 81.3     | 81.6     | 81.6     | 81.8     | 82.1     | 82.1     | 82.2     | 82.4     | 83.2     |
| GE 2500               | 34.6                 | 61.4     | 74.5     | 77.4     | 83.1     | 84.7     | 85.0     | 86.5     | 86.9     | 86.9     | 87.2     | 87.4     | 87.5     | 87.5     | 87.7     | 88.6     |
| GE 2000               | 37.3                 | 64.4     | 78.5     | 81.8     | 88.3     | 90.2     | 90.6     | 92.5     | 93.0     | 93.0     | 93.3     | 93.6     | 93.7     | 93.7     | 94.0     | 94.8     |
| GE 1800               | 37.8                 | 64.8     | 79.4     | 82.7     | 89.4     | 91.5     | 91.9     | 93.9     | 94.4     | 94.4     | 94.7     | 95.1     | 95.2     | 95.3     | 95.6     | 96.4     |
| GE 1500               | 38.1                 | 65.2     | 79.9     | 83.3     | 90.2     | 92.5     | 92.9     | 95.3     | 95.8     | 95.8     | 96.2     | 96.6     | 96.7     | 96.8     | 97.1     | 97.9     |
| GE 1200               | 38.2                 | 65.3     | 80.0     | 83.4     | 90.5     | 92.9     | 93.3     | 95.8     | 96.4     | 96.4     | 96.8     | 97.2     | 97.3     | 97.3     | 97.7     | 98.5     |
| GE 1000               | 38.2                 | 65.3     | 80.1     | 83.5     | 90.6     | 93.0     | 93.5     | 96.2     | 96.8     | 96.9     | 97.3     | 97.7     | 97.8     | 97.8     | 98.2     | 99.1     |
| GE 900                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.6     | 93.1     | 93.5     | 96.2     | 96.9     | 96.9     | 97.3     | 97.8     | 97.9     | 97.9     | 98.3     | 99.1     |
| GE 800                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.2     | 93.6     | 96.4     | 97.1     | 97.1     | 97.6     | 98.0     | 98.1     | 98.2     | 98.5     | 99.4     |
| GE 700                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.2     | 93.7     | 96.5     | 97.1     | 97.2     | 97.6     | 98.1     | 98.2     | 98.2     | 98.6     | 99.5     |
| GE 600                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.3     | 93.7     | 96.5     | 97.2     | 97.3     | 97.7     | 98.2     | 98.3     | 98.4     | 98.7     | 99.6     |
| GE 500                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.3     | 93.7     | 96.6     | 97.3     | 97.4     | 97.8     | 98.4     | 98.5     | 98.5     | 99.0     | 99.8     |
| GE 400                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.3     | 93.7     | 96.6     | 97.3     | 97.4     | 97.8     | 98.4     | 98.5     | 98.5     | 99.0     | 99.8     |
| GE 300                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.3     | 93.7     | 96.6     | 97.3     | 97.4     | 97.8     | 98.4     | 98.5     | 98.6     | 99.0     | 99.9     |
| GE 200                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.3     | 93.7     | 96.6     | 97.3     | 97.4     | 97.8     | 98.4     | 98.5     | 98.6     | 99.1     | 99.9     |
| GE 100                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.3     | 93.7     | 96.6     | 97.3     | 97.4     | 97.8     | 98.4     | 98.5     | 98.6     | 99.1     | 100.0    |
| GE 000                | 38.2                 | 65.3     | 80.1     | 83.5     | 90.7     | 93.3     | 93.7     | 96.6     | 97.3     | 97.4     | 97.8     | 98.4     | 98.5     | 98.6     | 99.1     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 4452

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | E<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |         |          |          |          |          |          |          |          |
| GE 5000               | 22.0                 | 45.5     | 60.0     | 66.5     | 74.4     | 75.9     | 75.9     | 77.1     | 78.0    | 78.0     | 78.4     | 79.7     | 79.7     | 79.7     | 79.9     | 82.2     |
| GE 4500               | 22.0                 | 45.5     | 60.0     | 66.5     | 74.4     | 75.9     | 75.9     | 77.1     | 78.0    | 78.0     | 78.4     | 79.7     | 79.7     | 79.7     | 79.9     | 82.2     |
| GE 4000               | 22.4                 | 45.9     | 60.4     | 66.9     | 74.8     | 76.3     | 76.3     | 77.6     | 78.4    | 78.4     | 78.8     | 80.1     | 80.1     | 80.1     | 80.3     | 82.6     |
| GE 3500               | 22.4                 | 45.9     | 60.4     | 66.9     | 74.8     | 76.3     | 76.3     | 77.6     | 78.4    | 78.4     | 78.8     | 80.1     | 80.1     | 80.1     | 80.3     | 82.6     |
| GE 3000               | 23.5                 | 47.0     | 61.8     | 68.3     | 76.7     | 78.2     | 78.2     | 79.7     | 80.5    | 80.5     | 80.9     | 82.2     | 82.2     | 82.2     | 82.4     | 84.7     |
| GE 2500               | 24.7                 | 48.4     | 65.2     | 72.7     | 82.2     | 84.1     | 84.1     | 86.0     | 87.0    | 87.0     | 87.4     | 88.7     | 88.7     | 88.7     | 88.9     | 91.2     |
| GE 2000               | 26.0                 | 49.7     | 66.9     | 75.1     | 85.3     | 87.6     | 87.6     | 89.7     | 91.0    | 91.0     | 91.6     | 92.9     | 92.9     | 92.9     | 93.1     | 95.4     |
| GE 1800               | 26.2                 | 49.9     | 67.3     | 75.5     | 86.0     | 88.3     | 88.3     | 90.4     | 91.6    | 91.6     | 92.2     | 93.7     | 93.7     | 93.7     | 93.9     | 96.2     |
| GE 1500               | 26.2                 | 49.9     | 67.9     | 76.1     | 86.6     | 89.3     | 89.3     | 91.8     | 93.1    | 93.1     | 93.7     | 95.4     | 95.4     | 95.4     | 95.6     | 98.1     |
| GE 1200               | 26.2                 | 49.9     | 67.9     | 76.3     | 87.4     | 90.4     | 90.4     | 92.9     | 94.1    | 94.1     | 94.8     | 96.4     | 96.4     | 96.4     | 96.6     | 99.2     |
| GE 1000               | 26.2                 | 49.9     | 67.9     | 76.5     | 87.6     | 90.6     | 90.6     | 93.1     | 94.3    | 94.3     | 95.0     | 96.6     | 96.6     | 96.6     | 96.9     | 99.4     |
| GE 900                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.6     | 90.6     | 90.6     | 93.1     | 94.3    | 94.3     | 95.0     | 96.6     | 96.6     | 96.6     | 96.9     | 99.4     |
| GE 800                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.6     | 90.6     | 90.6     | 93.1     | 94.3    | 94.3     | 95.0     | 96.6     | 96.6     | 96.6     | 96.9     | 99.4     |
| GE 700                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.8     | 90.8     | 90.8     | 93.3     | 94.5    | 94.5     | 95.2     | 96.9     | 96.9     | 96.9     | 97.1     | 99.6     |
| GE 600                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.8     | 90.8     | 90.8     | 93.3     | 94.5    | 94.5     | 95.2     | 96.9     | 96.9     | 96.9     | 97.1     | 99.6     |
| GE 500                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.8     | 90.8     | 90.8     | 93.3     | 94.5    | 94.5     | 95.2     | 96.9     | 96.9     | 96.9     | 97.1     | 99.6     |
| GE 400                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.8     | 90.8     | 90.8     | 93.3     | 94.5    | 94.5     | 95.2     | 96.9     | 96.9     | 96.9     | 97.1     | 99.6     |
| GE 300                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.8     | 90.8     | 90.8     | 93.3     | 94.5    | 94.5     | 95.2     | 96.9     | 96.9     | 96.9     | 97.1     | 99.6     |
| GE 200                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.8     | 90.8     | 90.8     | 93.3     | 94.5    | 94.5     | 95.2     | 96.9     | 96.9     | 96.9     | 97.1     | 99.6     |
| GE 100                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.8     | 90.8     | 90.8     | 93.3     | 94.5    | 94.5     | 95.2     | 96.9     | 96.9     | 96.9     | 97.1     | 99.6     |
| GE 000                | 26.2                 | 49.9     | 67.9     | 76.5     | 87.8     | 90.8     | 90.8     | 93.3     | 94.5    | 94.5     | 95.2     | 96.9     | 96.9     | 96.9     | 97.1     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 477

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 09-11

| CEILING  |        | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|--------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112 | GE 90                | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |        |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 17.9   | 32.2                 | 49.5  | 53.8  | 63.8  | 67.6  | 68.0  | 70.9  | 72.1  | 72.1  | 72.5  | 72.9  | 73.1  | 73.2  | 73.6  | 7.8   |
| GE 4500  | 18.0   | 32.3                 | 49.6  | 53.9  | 63.9  | 67.7  | 68.1  | 71.0  | 72.2  | 72.2  | 72.6  | 73.0  | 73.2  | 73.3  | 73.7  | 74.9  |
| GE 4000  | 18.8   | 33.1                 | 50.7  | 55.0  | 65.0  | 68.8  | 69.2  | 72.2  | 73.5  | 73.5  | 73.9  | 74.3  | 74.5  | 74.6  | 75.0  | 76.1  |
| GE 3500  | 18.9   | 33.2                 | 50.9  | 55.3  | 65.3  | 69.1  | 69.5  | 72.6  | 73.9  | 73.9  | 74.3  | 74.7  | 74.9  | 75.0  | 75.3  | 76.5  |
| GE 3000  | 19.9   | 34.2                 | 52.5  | 57.2  | 67.4  | 71.6  | 72.0  | 75.1  | 76.4  | 76.4  | 76.8  | 77.2  | 77.4  | 77.5  | 77.9  | 79.0  |
| GE 2500  | 21.6   | 36.2                 | 55.8  | 61.5  | 72.2  | 77.3  | 77.8  | 81.0  | 82.4  | 82.4  | 82.8  | 83.3  | 83.5  | 83.6  | 84.0  | 85.2  |
| GE 2000  | 22.8   | 37.3                 | 57.8  | 64.4  | 76.2  | 81.8  | 82.6  | 86.3  | 87.7  | 87.7  | 88.2  | 88.8  | 89.0  | 89.1  | 89.5  | 90.6  |
| GE 1800  | 23.1   | 37.7                 | 58.7  | 65.4  | 77.7  | 83.7  | 84.6  | 88.6  | 90.2  | 90.3  | 90.9  | 91.8  | 92.0  | 92.1  | 92.5  | 93.7  |
| GE 1500  | 23.2   | 37.8                 | 59.1  | 65.8  | 78.2  | 84.5  | 85.4  | 89.7  | 91.2  | 91.3  | 92.0  | 93.0  | 93.2  | 93.3  | 93.8  | 95.1  |
| GE 1200  | 23.2   | 37.9                 | 59.3  | 66.0  | 78.6  | 85.1  | 86.0  | 90.3  | 91.9  | 92.1  | 92.8  | 93.8  | 94.0  | 94.1  | 94.6  | 96.0  |
| GE 1000  | 23.2   | 37.9                 | 59.4  | 66.2  | 79.3  | 85.9  | 86.7  | 91.1  | 92.8  | 93.0  | 93.7  | 94.7  | 95.0  | 95.1  | 95.7  | 97.1  |
| GE 900   | 23.2   | 37.9                 | 59.4  | 66.2  | 79.3  | 85.9  | 86.7  | 91.1  | 92.8  | 93.0  | 93.7  | 94.7  | 95.0  | 95.1  | 95.7  | 97.1  |
| GE 800   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.6  | 86.3  | 87.1  | 91.5  | 93.2  | 93.4  | 94.1  | 95.3  | 95.7  | 95.8  | 96.4  | 97.8  |
| GE 700   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.7  | 86.4  | 87.2  | 91.7  | 93.4  | 93.6  | 94.2  | 95.5  | 95.9  | 96.0  | 96.6  | 98.0  |
| GE 600   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.8  | 86.5  | 87.3  | 91.8  | 93.6  | 93.8  | 94.4  | 95.7  | 96.1  | 96.3  | 96.9  | 98.2  |
| GE 500   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.9  | 86.5  | 87.4  | 92.1  | 94.1  | 94.2  | 94.9  | 96.3  | 96.9  | 97.1  | 97.7  | 99.1  |
| GE 400   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.9  | 86.6  | 87.5  | 92.3  | 94.3  | 94.5  | 95.2  | 96.6  | 97.3  | 97.5  | 98.1  | 99.5  |
| GE 300   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.9  | 86.6  | 87.5  | 92.3  | 94.3  | 94.5  | 95.2  | 96.7  | 97.4  | 97.6  | 98.1  | 99.7  |
| GE 200   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.9  | 86.6  | 87.5  | 92.3  | 94.4  | 94.6  | 95.3  | 96.8  | 97.5  | 97.8  | 98.4  | 100.0 |
| GE 100   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.9  | 86.6  | 87.5  | 92.3  | 94.4  | 94.6  | 95.3  | 96.8  | 97.5  | 97.8  | 98.4  | 100.0 |
| GE 000   | 23.2   | 37.9                 | 59.5  | 66.3  | 79.9  | 86.6  | 87.5  | 92.3  | 94.4  | 94.6  | 95.3  | 96.8  | 97.5  | 97.8  | 98.4  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1026

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 28.4                 | 45.8     | 60.0     | 63.5     | 68.7     | 70.2     | 70.4     | 71.0     | 71.0     | 71.0     | 71.0     | 71.0     | 71.0     | 71.0     | 71.0     | 71.1     |
| GE 4500               | 28.4                 | 45.8     | 60.0     | 63.5     | 68.7     | 70.2     | 70.4     | 71.0     | 71.0     | 71.0     | 71.0     | 71.0     | 71.0     | 71.0     | 71.0     | 71.1     |
| GE 4000               | 29.0                 | 46.5     | 60.8     | 64.2     | 69.5     | 71.0     | 71.2     | 71.8     | 71.8     | 71.8     | 71.8     | 71.9     | 71.9     | 71.9     | 71.9     | 71.9     |
| GE 3500               | 29.3                 | 46.8     | 61.2     | 64.6     | 69.8     | 71.4     | 71.6     | 72.2     | 72.2     | 72.2     | 72.2     | 72.3     | 72.3     | 72.3     | 72.3     | 72.4     |
| GE 3000               | 31.6                 | 49.1     | 64.3     | 67.8     | 73.2     | 74.7     | 74.9     | 75.6     | 75.6     | 75.6     | 75.6     | 75.7     | 75.7     | 75.7     | 75.7     | 75.8     |
| GE 2500               | 36.9                 | 54.8     | 71.6     | 75.7     | 81.7     | 83.2     | 83.4     | 84.1     | 84.1     | 84.1     | 84.1     | 84.2     | 84.2     | 84.2     | 84.2     | 84.3     |
| GE 2000               | 40.6                 | 58.7     | 76.6     | 81.3     | 88.5     | 90.6     | 90.9     | 91.6     | 91.6     | 91.6     | 91.7     | 92.0     | 92.0     | 92.0     | 92.0     | 92.1     |
| GE 1800               | 41.5                 | 59.5     | 77.9     | 82.5     | 90.2     | 92.3     | 92.6     | 93.7     | 93.7     | 93.7     | 93.8     | 94.2     | 94.2     | 94.2     | 94.2     | 94.3     |
| GE 1500               | 41.6                 | 59.6     | 78.1     | 82.8     | 90.7     | 92.9     | 93.3     | 94.7     | 94.8     | 94.8     | 94.8     | 95.3     | 95.3     | 95.3     | 95.3     | 95.4     |
| GE 1200               | 41.7                 | 59.7     | 78.5     | 83.6     | 91.9     | 94.4     | 94.8     | 96.3     | 96.6     | 96.6     | 96.7     | 97.3     | 97.3     | 97.4     | 97.4     | 97.5     |
| GE 1000               | 41.7                 | 59.7     | 78.5     | 83.7     | 92.3     | 95.1     | 95.5     | 97.1     | 97.5     | 97.5     | 97.6     | 98.3     | 98.3     | 98.4     | 98.4     | 98.5     |
| GE 900                | 41.7                 | 59.7     | 78.5     | 83.7     | 92.3     | 95.1     | 95.5     | 97.2     | 97.6     | 97.6     | 97.7     | 98.4     | 98.4     | 98.5     | 98.5     | 98.6     |
| GE 800                | 41.7                 | 59.7     | 78.6     | 83.8     | 92.6     | 95.4     | 95.8     | 97.7     | 98.1     | 98.2     | 98.3     | 99.0     | 99.0     | 99.0     | 99.0     | 99.1     |
| GE 700                | 41.8                 | 59.8     | 78.7     | 83.9     | 92.7     | 95.6     | 96.0     | 97.9     | 98.3     | 98.4     | 98.5     | 99.1     | 99.1     | 99.2     | 99.2     | 99.3     |
| GE 600                | 41.8                 | 59.8     | 78.7     | 83.9     | 92.7     | 95.6     | 96.0     | 97.9     | 98.3     | 98.4     | 98.5     | 99.2     | 99.2     | 99.3     | 99.3     | 99.4     |
| GE 500                | 41.8                 | 59.8     | 78.7     | 83.9     | 92.7     | 95.6     | 96.0     | 97.9     | 98.5     | 98.7     | 98.8     | 99.5     | 99.5     | 99.6     | 99.6     | 99.7     |
| GE 400                | 41.8                 | 59.8     | 78.7     | 83.9     | 92.7     | 95.6     | 96.0     | 97.9     | 98.6     | 98.9     | 99.0     | 99.7     | 99.7     | 99.8     | 99.8     | 99.9     |
| GE 300                | 41.8                 | 59.8     | 78.7     | 83.9     | 92.7     | 95.6     | 96.0     | 97.9     | 98.7     | 99.0     | 99.0     | 99.8     | 99.8     | 99.9     | 99.9     | 100.0    |
| GE 200                | 41.8                 | 59.8     | 78.7     | 83.9     | 92.7     | 95.6     | 96.0     | 97.9     | 98.7     | 99.0     | 99.0     | 99.8     | 99.8     | 99.9     | 99.9     | 100.0    |
| GE 100                | 41.8                 | 59.8     | 78.7     | 83.9     | 92.7     | 95.6     | 96.0     | 97.9     | 98.7     | 99.0     | 99.0     | 99.8     | 99.8     | 99.9     | 99.9     | 100.0    |
| GE 000                | 41.8                 | 59.8     | 78.7     | 83.9     | 92.7     | 95.6     | 96.0     | 97.9     | 98.7     | 99.0     | 99.0     | 99.8     | 99.8     | 99.9     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1048

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 43.7                 | 62.5     | 66.7     | 67.0     | 67.9     | 68.3     | 68.3     | 68.5     | 68.5     | 68.5     | 68.6     | 68.6     | 68.6     | 68.6     | 68.6     | 68.6     |
| GE 4500               | 43.7                 | 62.5     | 66.7     | 67.0     | 67.9     | 68.3     | 68.3     | 68.5     | 68.5     | 68.5     | 68.6     | 68.6     | 68.6     | 68.6     | 68.6     | 68.6     |
| GE 4000               | 44.0                 | 62.9     | 67.2     | 67.5     | 68.6     | 69.0     | 69.0     | 69.2     | 69.2     | 69.2     | 69.3     | 69.3     | 69.3     | 69.3     | 69.3     | 69.3     |
| GE 3500               | 44.6                 | 63.5     | 67.9     | 68.3     | 69.4     | 69.8     | 69.8     | 70.0     | 70.0     | 70.0     | 70.1     | 70.1     | 70.1     | 70.1     | 70.1     | 70.1     |
| GE 3000               | 47.8                 | 66.7     | 71.4     | 71.9     | 73.1     | 73.6     | 73.6     | 73.8     | 73.8     | 73.8     | 73.9     | 73.9     | 73.9     | 73.9     | 73.9     | 73.9     |
| GE 2500               | 55.9                 | 74.9     | 80.7     | 81.5     | 83.2     | 83.7     | 83.7     | 83.9     | 84.0     | 84.0     | 84.2     | 84.2     | 84.2     | 84.2     | 84.2     | 84.2     |
| GE 2000               | 60.3                 | 79.6     | 87.8     | 88.9     | 91.5     | 92.2     | 92.2     | 92.5     | 92.6     | 92.6     | 92.8     | 92.8     | 93.0     | 93.0     | 93.0     | 93.0     |
| GE 1800               | 61.6                 | 80.9     | 89.6     | 91.0     | 93.9     | 94.7     | 94.7     | 95.2     | 95.3     | 95.3     | 95.5     | 95.5     | 95.7     | 95.7     | 95.7     | 95.7     |
| GE 1500               | 61.8                 | 81.1     | 90.0     | 91.7     | 94.9     | 95.7     | 95.7     | 96.2     | 96.3     | 96.3     | 96.5     | 96.5     | 96.7     | 96.7     | 96.7     | 96.7     |
| GE 1200               | 61.9                 | 81.4     | 90.6     | 92.3     | 95.8     | 96.8     | 96.8     | 97.5     | 97.7     | 97.7     | 97.9     | 98.0     | 98.2     | 98.2     | 98.2     | 98.2     |
| GE 1000               | 61.9                 | 81.4     | 90.7     | 92.4     | 95.9     | 97.0     | 97.0     | 97.9     | 98.1     | 98.1     | 98.3     | 98.4     | 98.6     | 98.6     | 98.6     | 98.6     |
| GE 900                | 61.9                 | 81.4     | 90.7     | 92.4     | 95.9     | 97.0     | 97.0     | 98.0     | 98.2     | 98.2     | 98.4     | 98.5     | 98.7     | 98.7     | 98.7     | 98.7     |
| GE 800                | 61.9                 | 81.4     | 90.7     | 92.4     | 96.0     | 97.3     | 97.3     | 98.6     | 98.9     | 98.9     | 99.1     | 99.2     | 99.4     | 99.4     | 99.4     | 99.4     |
| GE 700                | 61.9                 | 81.4     | 90.7     | 92.4     | 96.0     | 97.3     | 97.3     | 98.6     | 98.9     | 98.9     | 99.2     | 99.3     | 99.5     | 99.5     | 99.5     | 99.5     |
| GE 600                | 61.9                 | 81.4     | 90.7     | 92.4     | 96.0     | 97.3     | 97.3     | 98.6     | 99.0     | 99.0     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     |
| GE 500                | 61.9                 | 81.4     | 90.7     | 92.4     | 96.0     | 97.3     | 97.3     | 98.6     | 99.1     | 99.1     | 99.5     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 400                | 61.9                 | 81.4     | 90.7     | 92.4     | 96.0     | 97.3     | 97.3     | 98.6     | 99.1     | 99.1     | 99.5     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 300                | 61.9                 | 81.4     | 90.7     | 92.4     | 96.0     | 97.3     | 97.3     | 98.6     | 99.1     | 99.1     | 99.5     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 200                | 62.0                 | 81.5     | 90.8     | 92.5     | 96.1     | 97.4     | 97.4     | 98.7     | 99.2     | 99.2     | 99.6     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 62.0                 | 81.5     | 90.8     | 92.5     | 96.1     | 97.4     | 97.4     | 98.7     | 99.2     | 99.2     | 99.6     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 62.0                 | 81.5     | 90.8     | 92.5     | 96.1     | 97.4     | 97.4     | 98.7     | 99.2     | 99.2     | 99.6     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1006

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 45.0                 | 66.2     | 69.2     | 70.0     | 71.0     | 71.2     | 71.3     | 71.6     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     |
| GE 4500               | 45.0                 | 66.2     | 69.2     | 70.0     | 71.0     | 71.2     | 71.3     | 71.6     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     |
| GE 4000               | 45.7                 | 66.9     | 70.3     | 71.0     | 72.1     | 72.3     | 72.4     | 72.7     | 72.9     | 72.9     | 72.9     | 72.9     | 72.9     | 72.9     | 72.9     | 72.9     |
| GE 3500               | 46.5                 | 67.7     | 71.2     | 72.0     | 73.0     | 73.2     | 73.3     | 73.6     | 73.8     | 73.8     | 73.8     | 73.8     | 73.8     | 73.8     | 73.8     | 73.8     |
| GE 3000               | 49.1                 | 70.4     | 74.1     | 75.2     | 76.4     | 76.5     | 76.7     | 77.1     | 77.3     | 77.3     | 77.3     | 77.3     | 77.3     | 77.3     | 77.3     | 77.3     |
| GE 2500               | 55.5                 | 77.1     | 80.8     | 81.9     | 83.7     | 84.0     | 84.1     | 84.6     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     |
| GE 2000               | 59.5                 | 81.4     | 87.3     | 88.6     | 91.3     | 92.4     | 92.8     | 93.4     | 93.9     | 93.9     | 93.9     | 94.1     | 94.1     | 94.2     | 94.2     | 94.2     |
| GE 1800               | 60.4                 | 82.5     | 89.0     | 90.2     | 93.3     | 94.5     | 95.0     | 95.7     | 96.2     | 96.2     | 96.2     | 96.3     | 96.3     | 96.5     | 96.5     | 96.5     |
| GE 1500               | 60.7                 | 82.8     | 89.3     | 90.9     | 94.2     | 95.4     | 95.9     | 96.6     | 97.1     | 97.1     | 97.1     | 97.3     | 97.3     | 97.4     | 97.4     | 97.4     |
| GE 1200               | 61.0                 | 83.1     | 89.9     | 91.5     | 95.1     | 96.6     | 97.1     | 97.9     | 98.5     | 98.5     | 98.5     | 98.6     | 98.6     | 98.8     | 98.8     | 98.8     |
| GE 1000               | 61.0                 | 83.1     | 90.1     | 91.6     | 95.3     | 96.8     | 97.3     | 98.0     | 98.6     | 98.6     | 98.6     | 98.8     | 98.8     | 98.9     | 98.9     | 98.9     |
| GE 900                | 61.0                 | 83.1     | 90.1     | 91.6     | 95.3     | 96.8     | 97.3     | 98.0     | 98.6     | 98.6     | 98.6     | 98.8     | 98.8     | 98.9     | 98.9     | 98.9     |
| GE 800                | 61.0                 | 83.1     | 90.2     | 91.8     | 95.7     | 97.3     | 97.7     | 98.6     | 99.2     | 99.2     | 99.2     | 99.4     | 99.4     | 99.5     | 99.5     | 99.5     |
| GE 700                | 61.0                 | 83.1     | 90.2     | 91.8     | 95.7     | 97.3     | 97.7     | 98.6     | 99.2     | 99.2     | 99.2     | 99.4     | 99.4     | 99.5     | 99.5     | 99.5     |
| GE 600                | 61.0                 | 83.1     | 90.2     | 91.8     | 95.7     | 97.3     | 97.7     | 98.6     | 99.2     | 99.2     | 99.2     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     |
| GE 500                | 61.0                 | 83.1     | 90.2     | 91.8     | 95.7     | 97.3     | 97.7     | 98.6     | 99.2     | 99.2     | 99.2     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     |
| GE 400                | 61.0                 | 83.1     | 90.2     | 91.8     | 95.7     | 97.3     | 97.7     | 98.8     | 99.4     | 99.4     | 99.4     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     |
| GE 300                | 61.0                 | 83.1     | 90.2     | 91.8     | 95.7     | 97.3     | 97.7     | 98.8     | 99.4     | 99.4     | 99.4     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     |
| GE 200                | 61.1                 | 83.2     | 90.4     | 91.9     | 95.9     | 97.4     | 97.9     | 98.9     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    |
| GE 100                | 61.1                 | 83.2     | 90.4     | 91.9     | 95.9     | 97.4     | 97.9     | 98.9     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    |
| GE 000                | 61.1                 | 83.2     | 90.4     | 91.9     | 95.9     | 97.4     | 97.9     | 98.9     | 99.5     | 99.5     | 99.5     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 656

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB HOURS: ALL

| CEILING  | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 31.4                 | 49.6  | 60.5  | 63.3  | 68.3  | 69.9  | 70.1  | 71.2  | 71.6  | 71.6  | 71.8  | 72.0  | 72.0  | 72.1  | 72.2  | 72.8  |
| GE 4500  | 31.4                 | 49.6  | 60.5  | 63.3  | 68.4  | 70.0  | 70.1  | 71.2  | 71.6  | 71.6  | 71.8  | 72.0  | 72.1  | 72.1  | 72.2  | 72.8  |
| GE 4000  | 32.0                 | 50.3  | 61.3  | 64.1  | 69.2  | 70.8  | 70.9  | 72.1  | 72.5  | 72.5  | 72.7  | 72.9  | 73.0  | 73.0  | 73.1  | 73.7  |
| GE 3500  | 32.3                 | 50.6  | 61.7  | 64.6  | 69.7  | 71.3  | 71.4  | 72.6  | 73.0  | 73.0  | 73.2  | 73.5  | 73.5  | 73.5  | 73.7  | 74.2  |
| GE 3000  | 34.4                 | 52.8  | 64.4  | 67.4  | 72.7  | 74.4  | 74.5  | 75.7  | 76.2  | 76.2  | 76.3  | 76.6  | 76.6  | 76.7  | 76.8  | 77.4  |
| GE 2500  | 39.2                 | 57.8  | 70.6  | 74.2  | 80.1  | 82.1  | 82.3  | 83.6  | 84.1  | 84.1  | 84.3  | 84.6  | 84.7  | 84.7  | 84.8  | 85.4  |
| GE 2000  | 42.3                 | 61.0  | 75.3  | 79.4  | 86.3  | 88.8  | 89.1  | 90.6  | 91.2  | 91.2  | 91.5  | 91.8  | 91.9  | 92.0  | 92.1  | 92.7  |
| GE 1800  | 43.0                 | 61.8  | 76.5  | 80.8  | 88.0  | 90.7  | 91.0  | 92.8  | 93.4  | 93.4  | 93.7  | 94.2  | 94.3  | 94.4  | 94.5  | 95.0  |
| GE 1500  | 43.2                 | 62.0  | 76.9  | 81.3  | 88.7  | 91.5  | 91.9  | 93.8  | 94.4  | 94.5  | 94.8  | 95.3  | 95.4  | 95.5  | 95.6  | 96.3  |
| GE 1200  | 43.3                 | 62.1  | 77.3  | 81.8  | 89.6  | 92.6  | 93.0  | 95.0  | 95.7  | 95.8  | 96.1  | 96.7  | 96.8  | 96.9  | 97.1  | 97.7  |
| GE 1000  | 43.3                 | 62.1  | 77.4  | 81.9  | 89.9  | 93.1  | 93.4  | 95.5  | 96.3  | 96.4  | 96.7  | 97.3  | 97.5  | 97.5  | 97.7  | 98.3  |
| GE 900   | 43.3                 | 62.1  | 77.4  | 81.9  | 89.9  | 93.1  | 93.4  | 95.6  | 96.4  | 96.4  | 96.7  | 97.4  | 97.5  | 97.6  | 97.7  | 98.4  |
| GE 800   | 43.3                 | 62.1  | 77.4  | 82.0  | 90.2  | 93.4  | 93.8  | 96.0  | 96.8  | 96.9  | 97.2  | 97.9  | 98.1  | 98.1  | 98.3  | 99.0  |
| GE 700   | 43.3                 | 62.1  | 77.5  | 82.0  | 90.2  | 93.5  | 93.9  | 96.2  | 97.0  | 97.0  | 97.4  | 98.1  | 98.2  | 98.3  | 98.5  | 99.1  |
| GE 600   | 43.3                 | 62.1  | 77.5  | 82.0  | 90.3  | 93.5  | 93.9  | 96.2  | 97.0  | 97.1  | 97.5  | 98.2  | 98.4  | 98.5  | 98.6  | 99.3  |
| GE 500   | 43.3                 | 62.1  | 77.5  | 82.0  | 90.3  | 93.5  | 93.9  | 96.2  | 97.2  | 97.3  | 97.7  | 98.5  | 98.7  | 98.8  | 98.9  | 99.6  |
| GE 400   | 43.3                 | 62.1  | 77.5  | 82.0  | 90.3  | 93.5  | 93.9  | 96.3  | 97.3  | 97.5  | 97.8  | 98.6  | 98.8  | 98.9  | 99.1  | 99.8  |
| GE 300   | 43.3                 | 62.1  | 77.5  | 82.0  | 90.3  | 93.5  | 93.9  | 96.3  | 97.4  | 97.5  | 97.8  | 98.7  | 98.9  | 99.0  | 99.1  | 99.8  |
| GE 200   | 43.3                 | 62.2  | 77.5  | 82.1  | 90.3  | 93.6  | 94.0  | 96.4  | 97.4  | 97.6  | 97.9  | 98.7  | 99.0  | 99.1  | 99.3  | 100.0 |
| GE 100   | 43.3                 | 62.2  | 77.5  | 82.1  | 90.3  | 93.6  | 94.0  | 96.4  | 97.4  | 97.6  | 97.9  | 98.7  | 99.0  | 99.1  | 99.3  | 100.0 |
| GE 000   | 43.3                 | 62.2  | 77.5  | 82.1  | 90.3  | 93.6  | 94.0  | 96.4  | 97.4  | 97.6  | 97.9  | 98.7  | 99.0  | 99.1  | 99.3  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 4213

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 20.7                 | 52.7     | 67.2     | 69.8     | 75.0     | 77.5     | 77.7     | 79.7     | 81.9     | 81.9     | 82.3     | 83.2     | 83.6     | 83.6     | 84.0     | 84.7     |
| GE 4500               | 20.7                 | 52.7     | 67.2     | 69.8     | 75.0     | 77.5     | 77.7     | 79.7     | 81.9     | 81.9     | 82.3     | 83.2     | 83.6     | 83.6     | 84.0     | 84.7     |
| GE 4000               | 20.9                 | 52.9     | 67.4     | 70.0     | 75.2     | 77.7     | 77.8     | 79.9     | 82.1     | 82.1     | 82.5     | 83.4     | 83.8     | 83.8     | 84.2     | 84.9     |
| GE 3500               | 20.9                 | 52.9     | 67.4     | 70.0     | 75.2     | 77.7     | 77.8     | 79.9     | 82.1     | 82.1     | 82.5     | 83.4     | 83.8     | 83.8     | 84.2     | 84.9     |
| GE 3000               | 22.0                 | 54.2     | 69.1     | 71.7     | 77.1     | 79.7     | 79.9     | 81.9     | 84.2     | 84.2     | 84.5     | 85.5     | 85.8     | 85.8     | 86.2     | 87.0     |
| GE 2500               | 24.8                 | 57.5     | 73.6     | 76.4     | 83.1     | 85.8     | 86.2     | 88.5     | 90.7     | 90.7     | 91.2     | 92.2     | 92.6     | 92.6     | 92.9     | 93.7     |
| GE 2000               | 25.7                 | 58.5     | 76.0     | 79.0     | 86.2     | 89.0     | 89.4     | 92.0     | 94.2     | 94.2     | 94.8     | 95.7     | 96.1     | 96.1     | 96.5     | 97.2     |
| GE 1800               | 25.9                 | 58.7     | 76.2     | 79.1     | 86.4     | 89.2     | 89.8     | 92.7     | 95.0     | 95.0     | 95.5     | 96.5     | 96.8     | 96.8     | 97.2     | 98.0     |
| GE 1500               | 25.9                 | 58.7     | 76.4     | 79.3     | 86.8     | 89.6     | 90.1     | 93.1     | 95.5     | 95.5     | 96.1     | 97.0     | 97.4     | 97.4     | 97.8     | 98.5     |
| GE 1200               | 25.9                 | 58.7     | 76.5     | 79.5     | 87.0     | 89.8     | 90.3     | 93.3     | 95.7     | 95.7     | 96.3     | 97.2     | 97.6     | 97.6     | 98.0     | 98.7     |
| GE 1000               | 26.1                 | 58.8     | 76.9     | 79.9     | 87.3     | 90.1     | 90.7     | 93.7     | 96.1     | 96.1     | 96.6     | 97.6     | 98.0     | 98.0     | 98.3     | 99.1     |
| GE 900                | 26.1                 | 58.8     | 76.9     | 79.9     | 87.3     | 90.1     | 90.7     | 93.7     | 96.1     | 96.1     | 96.6     | 97.6     | 98.0     | 98.0     | 98.3     | 99.1     |
| GE 800                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.5     | 96.5     | 97.0     | 98.0     | 98.3     | 98.3     | 98.7     | 99.4     |
| GE 700                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.6     | 96.6     | 97.2     | 98.1     | 98.5     | 98.5     | 98.9     | 99.6     |
| GE 600                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.6     | 96.6     | 97.2     | 98.1     | 98.5     | 98.5     | 98.9     | 99.6     |
| GE 500                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.6     | 96.6     | 97.2     | 98.1     | 98.5     | 98.5     | 98.9     | 99.6     |
| GE 400                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.6     | 96.6     | 97.2     | 98.1     | 98.5     | 98.5     | 98.9     | 99.6     |
| GE 300                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.6     | 96.6     | 97.2     | 98.1     | 98.5     | 98.5     | 98.9     | 99.6     |
| GE 200                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.6     | 96.6     | 97.2     | 98.1     | 98.5     | 98.5     | 98.9     | 99.6     |
| GE 100                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.6     | 96.6     | 97.2     | 98.1     | 98.5     | 98.5     | 98.9     | 99.6     |
| GE 000                | 26.3                 | 59.0     | 77.3     | 80.3     | 87.7     | 90.5     | 91.1     | 94.0     | 96.6     | 96.6     | 97.2     | 98.1     | 98.5     | 98.5     | 98.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 537

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 09-11

| CEILING  | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 21.8                 | 50.0  | 65.8  | 69.6  | 77.4  | 79.6  | 80.1  | 81.1  | 81.7  | 81.8  | 81.8  | 82.2  | 82.5  | 82.6  | 82.6  | 83.5  |
| GE 4500  | 21.9                 | 50.1  | 65.9  | 69.7  | 77.5  | 79.7  | 80.2  | 81.2  | 81.8  | 81.9  | 81.9  | 82.3  | 82.6  | 82.7  | 82.7  | 83.6  |
| GE 4000  | 22.3                 | 50.5  | 66.5  | 70.3  | 78.2  | 80.4  | 80.9  | 81.9  | 82.5  | 82.6  | 82.6  | 83.1  | 83.3  | 83.4  | 83.4  | 84.3  |
| GE 3500  | 22.6                 | 50.9  | 66.9  | 70.7  | 78.6  | 80.9  | 81.3  | 82.3  | 83.0  | 83.1  | 83.1  | 83.5  | 83.8  | 83.9  | 83.9  | 84.8  |
| GE 3000  | 23.8                 | 52.1  | 68.8  | 72.6  | 80.6  | 83.2  | 83.6  | 84.6  | 85.2  | 85.3  | 85.3  | 85.8  | 86.1  | 86.1  | 86.1  | 87.0  |
| GE 2500  | 26.5                 | 55.2  | 72.6  | 76.8  | 85.4  | 88.5  | 88.9  | 90.0  | 90.7  | 90.8  | 90.8  | 91.2  | 91.5  | 91.6  | 91.6  | 92.5  |
| GE 2000  | 27.9                 | 56.5  | 74.7  | 79.0  | 88.8  | 92.1  | 92.7  | 93.8  | 94.7  | 94.7  | 94.7  | 95.2  | 95.5  | 95.6  | 95.6  | 96.5  |
| GE 1800  | 28.1                 | 56.7  | 75.2  | 79.6  | 89.7  | 93.2  | 93.8  | 94.9  | 95.8  | 95.9  | 95.9  | 96.4  | 96.7  | 96.8  | 96.8  | 97.7  |
| GE 1500  | 28.2                 | 56.8  | 75.6  | 80.2  | 90.2  | 93.9  | 94.5  | 95.7  | 96.6  | 96.7  | 96.8  | 97.3  | 97.6  | 97.7  | 97.7  | 98.6  |
| GE 1200  | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.2  | 94.7  | 96.0  | 97.0  | 97.1  | 97.2  | 97.6  | 98.0  | 98.1  | 98.1  | 99.0  |
| GE 1000  | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.2  | 94.7  | 96.0  | 97.2  | 97.3  | 97.4  | 98.0  | 98.4  | 98.5  | 98.5  | 99.4  |
| GE 900   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.2  | 94.7  | 96.0  | 97.2  | 97.3  | 97.4  | 98.0  | 98.4  | 98.5  | 98.5  | 99.4  |
| GE 800   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.2  | 94.7  | 96.1  | 97.3  | 97.4  | 97.5  | 98.1  | 98.5  | 98.6  | 98.6  | 99.5  |
| GE 700   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.2  | 94.7  | 96.1  | 97.3  | 97.4  | 97.5  | 98.1  | 98.5  | 98.6  | 98.6  | 99.5  |
| GE 600   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.3  | 94.8  | 96.3  | 97.5  | 97.6  | 97.6  | 98.3  | 98.7  | 98.8  | 98.8  | 99.7  |
| GE 500   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.3  | 94.8  | 96.3  | 97.5  | 97.6  | 97.6  | 98.3  | 98.7  | 98.8  | 98.8  | 99.7  |
| GE 400   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.3  | 94.8  | 96.3  | 97.5  | 97.6  | 97.6  | 98.4  | 98.8  | 98.9  | 98.9  | 99.8  |
| GE 300   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.3  | 94.8  | 96.3  | 97.5  | 97.6  | 97.6  | 98.4  | 98.8  | 98.9  | 99.0  | 99.9  |
| GE 200   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.3  | 94.8  | 96.3  | 97.5  | 97.6  | 97.6  | 98.4  | 98.8  | 98.9  | 99.0  | 99.9  |
| GE 100   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.3  | 94.8  | 96.3  | 97.5  | 97.6  | 97.6  | 98.4  | 98.8  | 98.9  | 99.0  | 99.9  |
| GE 000   | 28.2                 | 56.8  | 75.6  | 80.2  | 90.3  | 94.3  | 94.8  | 96.3  | 97.5  | 97.6  | 97.6  | 98.4  | 98.8  | 98.9  | 99.0  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1104

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 35.0                 | 62.4     | 70.1     | 72.0     | 76.5     | 77.2     | 77.2     | 77.3     | 77.3     | 77.3     | 77.4     | 77.4     | 77.4     | 77.4     | 77.4     | 77.4     |
| GE 4500               | 35.0                 | 62.4     | 70.1     | 72.0     | 76.5     | 77.2     | 77.2     | 77.3     | 77.3     | 77.3     | 77.4     | 77.4     | 77.4     | 77.4     | 77.4     | 77.4     |
| GE 4000               | 35.2                 | 62.6     | 70.7     | 72.6     | 77.0     | 77.7     | 77.7     | 77.8     | 77.9     | 77.9     | 78.0     | 78.0     | 78.0     | 78.0     | 78.0     | 78.0     |
| GE 3500               | 35.5                 | 62.9     | 71.1     | 73.0     | 77.4     | 78.1     | 78.1     | 78.2     | 78.3     | 78.3     | 78.4     | 78.4     | 78.4     | 78.4     | 78.4     | 78.4     |
| GE 3000               | 38.3                 | 65.7     | 74.7     | 76.6     | 81.2     | 81.9     | 81.9     | 81.9     | 82.0     | 82.0     | 82.1     | 82.1     | 82.1     | 82.1     | 82.1     | 82.1     |
| GE 2500               | 46.2                 | 74.1     | 83.7     | 85.9     | 90.7     | 91.8     | 91.8     | 91.8     | 91.9     | 91.9     | 92.0     | 92.1     | 92.1     | 92.1     | 92.1     | 92.1     |
| GE 2000               | 48.4                 | 76.3     | 87.3     | 89.8     | 95.1     | 96.2     | 96.2     | 96.4     | 96.4     | 96.4     | 96.5     | 96.6     | 96.6     | 96.6     | 96.6     | 96.6     |
| GE 1800               | 49.0                 | 77.1     | 88.5     | 91.0     | 96.6     | 97.8     | 97.9     | 98.1     | 98.2     | 98.2     | 98.4     | 98.4     | 98.4     | 98.4     | 98.5     | 98.5     |
| GE 1500               | 49.0                 | 77.1     | 88.5     | 91.1     | 97.3     | 98.8     | 98.9     | 99.1     | 99.3     | 99.3     | 99.5     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     |
| GE 1200               | 49.0                 | 77.1     | 88.5     | 91.1     | 97.4     | 98.9     | 99.0     | 99.2     | 99.4     | 99.4     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 1000               | 49.0                 | 77.1     | 88.5     | 91.1     | 97.4     | 98.9     | 99.0     | 99.3     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 900                | 49.0                 | 77.1     | 88.5     | 91.1     | 97.4     | 98.9     | 99.0     | 99.3     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 800                | 49.0                 | 77.1     | 88.5     | 91.1     | 97.4     | 98.9     | 99.0     | 99.3     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 700                | 49.0                 | 77.1     | 88.5     | 91.1     | 97.4     | 98.9     | 99.0     | 99.3     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 600                | 49.0                 | 77.1     | 88.5     | 91.1     | 97.4     | 98.9     | 99.0     | 99.3     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 500                | 49.0                 | 77.1     | 88.5     | 91.1     | 97.4     | 98.9     | 99.0     | 99.3     | 99.6     | 99.6     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     |
| GE 400                | 49.0                 | 77.1     | 88.5     | 91.1     | 97.4     | 98.9     | 99.0     | 99.3     | 99.6     | 99.6     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     |
| GE 300                | 49.0                 | 77.2     | 88.6     | 91.2     | 97.5     | 99.0     | 99.0     | 99.4     | 99.7     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 200                | 49.0                 | 77.2     | 88.6     | 91.2     | 97.5     | 99.0     | 99.0     | 99.4     | 99.7     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 100                | 49.0                 | 77.2     | 88.6     | 91.2     | 97.5     | 99.0     | 99.0     | 99.4     | 99.7     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 000                | 49.0                 | 77.2     | 88.6     | 91.2     | 97.5     | 99.0     | 99.0     | 99.4     | 99.7     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1152

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 45.3                 | 69.0     | 72.4     | 73.1     | 74.6     | 75.1     | 75.1     | 75.2     | 75.2     | 75.3     | 75.3     | 75.3     | 75.3     | 75.3     | 75.3     | 75.3     |
| GE 4500               | 45.3                 | 69.0     | 72.4     | 73.1     | 74.6     | 75.1     | 75.1     | 75.2     | 75.2     | 75.3     | 75.3     | 75.3     | 75.3     | 75.3     | 75.3     | 75.3     |
| GE 4000               | 45.7                 | 69.7     | 73.1     | 73.8     | 75.3     | 75.8     | 75.8     | 75.9     | 75.9     | 76.0     | 76.1     | 76.1     | 76.1     | 76.1     | 76.1     | 76.1     |
| GE 3500               | 46.5                 | 70.5     | 74.0     | 74.7     | 76.1     | 76.6     | 76.6     | 76.7     | 76.7     | 76.8     | 76.9     | 76.9     | 76.9     | 76.9     | 76.9     | 76.9     |
| GE 3000               | 51.3                 | 75.3     | 79.1     | 79.8     | 81.2     | 81.8     | 81.8     | 81.9     | 81.9     | 82.0     | 82.1     | 82.1     | 82.1     | 82.2     | 82.2     | 82.2     |
| GE 2500               | 58.6                 | 82.6     | 86.8     | 87.6     | 89.4     | 90.0     | 90.0     | 90.1     | 90.2     | 90.3     | 90.5     | 90.5     | 90.5     | 90.6     | 90.6     | 90.6     |
| GE 2000               | 63.4                 | 87.6     | 93.1     | 93.9     | 96.2     | 97.0     | 97.0     | 97.2     | 97.3     | 97.4     | 97.6     | 97.6     | 97.6     | 97.7     | 97.7     | 97.7     |
| GE 1800               | 63.7                 | 88.0     | 93.7     | 94.6     | 96.9     | 97.8     | 97.8     | 98.1     | 98.3     | 98.4     | 98.6     | 98.6     | 98.6     | 98.7     | 98.7     | 98.7     |
| GE 1500               | 63.9                 | 88.2     | 93.9     | 94.8     | 97.6     | 98.4     | 98.4     | 98.8     | 99.0     | 99.1     | 99.3     | 99.3     | 99.3     | 99.4     | 99.4     | 99.4     |
| GE 1200               | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.6     | 98.6     | 99.0     | 99.2     | 99.3     | 99.5     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     |
| GE 1000               | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.7     | 99.1     | 99.3     | 99.4     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     |
| GE 900                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 800                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 700                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 600                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 500                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 400                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 300                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 200                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 100                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |
| GE 000                | 64.0                 | 88.3     | 94.1     | 95.0     | 97.8     | 98.7     | 98.8     | 99.2     | 99.4     | 99.5     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1023

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD F RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 53.1                 | 75.4     | 78.4     | 78.7     | 79.6     | 79.9     | 79.9     | 80.0     | 80.0     | 80.2     | 80.2     | 80.2     | 80.2     | 80.2     | 80.2     | 80.2     |
| GE 4500               | 53.1                 | 75.4     | 78.4     | 78.7     | 79.6     | 79.9     | 79.9     | 80.0     | 80.0     | 80.2     | 80.2     | 80.2     | 80.2     | 80.2     | 80.2     | 80.2     |
| GE 4000               | 53.8                 | 76.1     | 79.1     | 79.3     | 80.3     | 80.6     | 80.6     | 80.8     | 80.8     | 81.0     | 81.0     | 81.0     | 81.0     | 81.0     | 81.0     | 81.0     |
| GE 3500               | 54.2                 | 76.5     | 79.5     | 79.8     | 80.7     | 81.0     | 81.0     | 81.3     | 81.3     | 81.4     | 81.4     | 81.4     | 81.4     | 81.4     | 81.4     | 81.4     |
| GE 3000               | 58.4                 | 81.0     | 84.2     | 84.5     | 85.5     | 85.7     | 85.7     | 86.0     | 86.0     | 86.1     | 86.1     | 86.1     | 86.1     | 86.1     | 86.1     | 86.1     |
| GE 2500               | 63.9                 | 87.1     | 91.0     | 91.3     | 92.4     | 92.8     | 92.8     | 93.1     | 93.1     | 93.2     | 93.2     | 93.2     | 93.2     | 93.2     | 93.2     | 93.2     |
| GE 2000               | 65.9                 | 89.3     | 94.4     | 95.0     | 96.7     | 97.1     | 97.1     | 97.6     | 97.6     | 97.7     | 97.7     | 97.7     | 97.8     | 97.8     | 97.8     | 97.8     |
| GE 1800               | 66.3                 | 89.9     | 95.4     | 96.1     | 97.8     | 98.4     | 98.4     | 99.0     | 99.0     | 99.2     | 99.2     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     |
| GE 1500               | 66.3                 | 89.9     | 95.4     | 96.1     | 97.8     | 98.4     | 98.4     | 99.0     | 99.0     | 99.2     | 99.2     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     |
| GE 1200               | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.5     | 99.6     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 1000               | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 900                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 800                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 700                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 66.3                 | 89.9     | 95.7     | 96.3     | 98.1     | 98.8     | 98.8     | 99.6     | 99.7     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 736

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 35.3                 | 61.8     | 70.6     | 72.5     | 76.6     | 77.8     | 77.9     | 78.4     | 78.9     | 79.0     | 79.0     | 79.2     | 79.3     | 79.4     | 79.4     | 79.7     |
| GE 4500               | 35.4                 | 61.9     | 70.6     | 72.5     | 76.6     | 77.8     | 77.9     | 78.5     | 78.9     | 79.0     | 79.0     | 79.3     | 79.4     | 79.4     | 79.4     | 79.7     |
| GE 4000               | 35.7                 | 62.3     | 71.2     | 73.1     | 77.2     | 78.4     | 78.5     | 79.1     | 79.5     | 79.6     | 79.7     | 79.9     | 80.0     | 80.0     | 80.1     | 80.4     |
| GE 3500               | 36.2                 | 62.7     | 71.7     | 73.6     | 77.7     | 78.9     | 79.0     | 79.6     | 80.0     | 80.1     | 80.2     | 80.4     | 80.5     | 80.5     | 80.6     | 80.9     |
| GE 3000               | 39.0                 | 65.7     | 75.1     | 77.1     | 81.3     | 82.5     | 82.7     | 83.2     | 83.7     | 83.7     | 83.8     | 84.1     | 84.2     | 84.2     | 84.2     | 84.6     |
| GE 2500               | 44.5                 | 71.6     | 81.7     | 83.8     | 88.5     | 90.0     | 90.2     | 90.8     | 91.3     | 91.3     | 91.5     | 91.7     | 91.8     | 91.9     | 91.9     | 92.2     |
| GE 2000               | 46.9                 | 74.0     | 85.4     | 87.7     | 93.0     | 94.7     | 94.9     | 95.6     | 96.1     | 96.2     | 96.3     | 96.6     | 96.7     | 96.7     | 96.8     | 97.1     |
| GE 1800               | 47.3                 | 74.5     | 86.1     | 88.5     | 94.0     | 95.8     | 96.0     | 96.9     | 97.4     | 97.5     | 97.6     | 97.9     | 98.0     | 98.1     | 98.1     | 98.4     |
| GE 1500               | 47.4                 | 74.6     | 86.3     | 88.7     | 94.5     | 96.4     | 96.6     | 97.5     | 98.1     | 98.2     | 98.4     | 98.6     | 98.7     | 98.8     | 98.9     | 99.2     |
| GE 1200               | 47.4                 | 74.6     | 86.4     | 88.8     | 94.6     | 96.6     | 96.8     | 97.7     | 98.4     | 98.4     | 98.6     | 98.9     | 99.1     | 99.1     | 99.2     | 99.5     |
| GE 1000               | 47.4                 | 74.6     | 86.4     | 88.9     | 94.7     | 96.7     | 96.9     | 97.8     | 98.5     | 98.6     | 98.8     | 99.1     | 99.3     | 99.3     | 99.4     | 99.7     |
| GE 900                | 47.4                 | 74.6     | 86.4     | 88.9     | 94.7     | 96.7     | 96.9     | 97.9     | 98.6     | 98.6     | 98.8     | 99.1     | 99.3     | 99.3     | 99.4     | 99.7     |
| GE 800                | 47.4                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 96.9     | 97.9     | 98.6     | 98.7     | 98.9     | 99.2     | 99.3     | 99.4     | 99.5     | 99.8     |
| GE 700                | 47.4                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 96.9     | 97.9     | 98.6     | 98.7     | 98.9     | 99.2     | 99.4     | 99.4     | 99.5     | 99.8     |
| GE 600                | 47.4                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 97.0     | 98.0     | 98.7     | 98.7     | 98.9     | 99.3     | 99.4     | 99.5     | 99.5     | 99.8     |
| GE 500                | 47.4                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 97.0     | 98.0     | 98.7     | 98.8     | 98.9     | 99.3     | 99.5     | 99.5     | 99.6     | 99.9     |
| GE 400                | 47.4                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 97.0     | 98.0     | 98.7     | 98.8     | 98.9     | 99.3     | 99.5     | 99.5     | 99.6     | 99.9     |
| GE 300                | 47.5                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 97.0     | 98.0     | 98.7     | 98.8     | 99.0     | 99.3     | 99.5     | 99.5     | 99.6     | 99.9     |
| GE 200                | 47.5                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 97.0     | 98.0     | 98.7     | 98.8     | 99.0     | 99.3     | 99.5     | 99.5     | 99.6     | 99.9     |
| GE 100                | 47.5                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 97.0     | 98.0     | 98.7     | 98.8     | 99.0     | 99.3     | 99.5     | 99.5     | 99.6     | 99.9     |
| GE 000                | 47.5                 | 74.6     | 86.5     | 88.9     | 94.7     | 96.7     | 97.0     | 98.0     | 98.7     | 98.8     | 99.0     | 99.3     | 99.5     | 99.5     | 99.6     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 4552

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 06-08

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 23.5                 | 44.3  | 57.2  | 59.4  | 67.1  | 71.1  | 71.6  | 74.4  | 76.9  | 76.9  | 77.0  | 77.6  | 77.6  | 77.6  | 77.8  | 78.2  |
| GE 4500  |      | 23.5                 | 44.3  | 57.2  | 59.4  | 67.1  | 71.1  | 71.6  | 74.4  | 76.9  | 76.9  | 77.0  | 77.6  | 77.6  | 77.6  | 77.8  | 78.2  |
| GE 4000  |      | 24.3                 | 45.3  | 58.2  | 60.4  | 68.1  | 72.1  | 72.7  | 75.4  | 77.9  | 77.9  | 78.1  | 78.7  | 78.7  | 78.7  | 78.8  | 79.2  |
| GE 3500  |      | 24.4                 | 45.5  | 58.5  | 60.7  | 68.4  | 72.4  | 73.0  | 75.7  | 78.2  | 78.2  | 78.4  | 78.9  | 78.9  | 78.9  | 79.1  | 79.5  |
| GE 3000  |      | 26.2                 | 47.2  | 60.2  | 62.6  | 70.9  | 75.0  | 75.6  | 79.1  | 81.6  | 81.6  | 81.7  | 82.3  | 82.3  | 82.3  | 82.5  | 82.9  |
| GE 2500  |      | 28.1                 | 49.3  | 64.0  | 66.8  | 76.3  | 81.3  | 81.9  | 86.0  | 88.7  | 88.7  | 88.9  | 89.5  | 89.5  | 89.5  | 89.6  | 90.1  |
| GE 2000  |      | 28.5                 | 50.1  | 66.2  | 69.3  | 79.5  | 84.8  | 85.4  | 89.9  | 93.0  | 93.0  | 93.1  | 93.7  | 93.7  | 93.7  | 93.9  | 94.3  |
| GE 1800  |      | 28.9                 | 50.6  | 66.7  | 69.7  | 80.6  | 86.1  | 86.8  | 91.7  | 94.9  | 94.9  | 95.0  | 95.6  | 95.6  | 95.6  | 95.8  | 96.2  |
| GE 1500  |      | 29.1                 | 50.7  | 67.5  | 70.6  | 81.9  | 87.7  | 88.5  | 93.6  | 96.8  | 96.8  | 97.1  | 97.7  | 97.8  | 97.8  | 98.0  | 98.4  |
| GE 1200  |      | 29.1                 | 50.7  | 67.7  | 70.8  | 82.2  | 88.0  | 88.7  | 94.0  | 97.2  | 97.2  | 97.5  | 98.1  | 98.2  | 98.2  | 98.4  | 98.8  |
| GE 1000  |      | 29.1                 | 50.7  | 67.8  | 70.9  | 82.5  | 88.5  | 89.2  | 94.7  | 98.0  | 98.0  | 98.2  | 98.8  | 99.0  | 99.0  | 99.1  | 99.6  |
| GE 900   |      | 29.1                 | 50.7  | 67.8  | 70.9  | 82.5  | 88.5  | 89.2  | 94.7  | 98.0  | 98.0  | 98.2  | 98.8  | 99.0  | 99.0  | 99.1  | 99.6  |
| GE 800   |      | 29.1                 | 50.7  | 67.8  | 71.1  | 82.6  | 88.6  | 89.3  | 94.9  | 98.1  | 98.1  | 98.4  | 99.0  | 99.1  | 99.1  | 99.3  | 99.7  |
| GE 700   |      | 29.1                 | 50.7  | 68.0  | 71.3  | 82.9  | 88.9  | 89.6  | 95.2  | 98.4  | 98.4  | 98.7  | 99.3  | 99.4  | 99.4  | 99.6  | 100.0 |
| GE 600   |      | 29.1                 | 50.7  | 68.0  | 71.3  | 82.9  | 88.9  | 89.6  | 95.2  | 98.4  | 98.4  | 98.7  | 99.3  | 99.4  | 99.4  | 99.6  | 100.0 |
| GE 500   |      | 29.1                 | 50.7  | 68.0  | 71.3  | 82.9  | 88.9  | 89.6  | 95.2  | 98.4  | 98.4  | 98.7  | 99.3  | 99.4  | 99.4  | 99.6  | 100.0 |
| GE 400   |      | 29.1                 | 50.7  | 68.0  | 71.3  | 82.9  | 88.9  | 89.6  | 95.2  | 98.4  | 98.4  | 98.7  | 99.3  | 99.4  | 99.4  | 99.6  | 100.0 |
| GE 300   |      | 29.1                 | 50.7  | 68.0  | 71.3  | 82.9  | 88.9  | 89.6  | 95.2  | 98.4  | 98.4  | 98.7  | 99.3  | 99.4  | 99.4  | 99.6  | 100.0 |
| GE 200   |      | 29.1                 | 50.7  | 68.0  | 71.3  | 82.9  | 88.9  | 89.6  | 95.2  | 98.4  | 98.4  | 98.7  | 99.3  | 99.4  | 99.4  | 99.6  | 100.0 |
| GE 100   |      | 29.1                 | 50.7  | 68.0  | 71.3  | 82.9  | 88.9  | 89.6  | 95.2  | 98.4  | 98.4  | 98.7  | 99.3  | 99.4  | 99.4  | 99.6  | 100.0 |
| GE 000   |      | 29.1                 | 50.7  | 68.0  | 71.3  | 82.9  | 88.9  | 89.6  | 95.2  | 98.4  | 98.4  | 98.7  | 99.3  | 99.4  | 99.4  | 99.6  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 684

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 26.6                 | 47.9     | 61.2     | 64.9     | 71.1     | 72.8     | 73.0     | 74.2     | 74.6     | 74.6     | 74.9     | 75.1     | 75.2     | 75.2     | 75.3     | 75.3     |
| GE 4500               | 26.6                 | 47.9     | 61.2     | 64.9     | 71.1     | 72.8     | 73.0     | 74.2     | 74.6     | 74.6     | 74.9     | 75.1     | 75.2     | 75.2     | 75.3     | 75.3     |
| GE 4000               | 27.3                 | 48.6     | 62.0     | 65.8     | 72.0     | 73.8     | 74.1     | 75.3     | 75.6     | 75.6     | 75.9     | 76.1     | 76.2     | 76.2     | 76.3     | 76.4     |
| GE 3500               | 28.0                 | 49.4     | 62.8     | 66.6     | 72.9     | 74.7     | 74.9     | 76.1     | 76.5     | 76.5     | 76.8     | 77.0     | 77.1     | 77.1     | 77.1     | 77.2     |
| GE 3000               | 30.1                 | 51.5     | 65.2     | 69.0     | 75.7     | 77.5     | 77.7     | 78.9     | 79.3     | 79.3     | 79.6     | 79.8     | 79.9     | 79.9     | 80.0     | 80.1     |
| GE 2500               | 33.8                 | 55.7     | 70.5     | 74.8     | 83.0     | 85.3     | 85.5     | 87.2     | 87.5     | 87.5     | 87.8     | 88.0     | 88.2     | 88.2     | 88.3     | 88.4     |
| GE 2000               | 36.2                 | 58.0     | 74.7     | 79.4     | 88.2     | 90.9     | 91.2     | 93.1     | 93.7     | 93.7     | 94.0     | 94.2     | 94.3     | 94.3     | 94.4     | 94.5     |
| GE 1800               | 36.5                 | 58.3     | 75.3     | 80.1     | 89.2     | 92.4     | 92.6     | 94.8     | 95.5     | 95.5     | 95.8     | 96.0     | 96.1     | 96.1     | 96.2     | 96.3     |
| GE 1500               | 36.5                 | 58.3     | 75.6     | 80.3     | 89.9     | 93.5     | 93.8     | 96.1     | 96.9     | 96.9     | 97.3     | 97.5     | 97.8     | 97.8     | 97.9     | 97.9     |
| GE 1200               | 36.5                 | 58.3     | 75.7     | 80.4     | 90.2     | 94.1     | 94.4     | 96.7     | 97.6     | 97.6     | 97.9     | 98.2     | 98.5     | 98.5     | 98.5     | 98.6     |
| GE 1000               | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.3     | 98.4     | 98.4     | 98.8     | 99.1     | 99.4     | 99.4     | 99.5     | 99.6     |
| GE 900                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.3     | 98.4     | 98.4     | 98.8     | 99.1     | 99.4     | 99.4     | 99.5     | 99.6     |
| GE 800                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.3     | 98.4     | 98.4     | 98.8     | 99.1     | 99.4     | 99.4     | 99.5     | 99.6     |
| GE 700                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.3     | 98.5     | 98.5     | 98.9     | 99.2     | 99.5     | 99.5     | 99.6     | 99.7     |
| GE 600                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.3     | 98.5     | 98.5     | 98.9     | 99.2     | 99.5     | 99.5     | 99.6     | 99.7     |
| GE 500                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.4     | 98.5     | 98.5     | 99.0     | 99.3     | 99.6     | 99.6     | 99.7     | 99.7     |
| GE 400                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.4     | 98.5     | 98.5     | 99.0     | 99.3     | 99.6     | 99.6     | 99.7     | 99.7     |
| GE 300                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.4     | 98.6     | 98.6     | 99.1     | 99.4     | 99.7     | 99.7     | 99.7     | 99.8     |
| GE 200                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.4     | 98.6     | 98.6     | 99.1     | 99.4     | 99.7     | 99.7     | 99.7     | 99.8     |
| GE 100                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.4     | 98.6     | 98.6     | 99.1     | 99.4     | 99.7     | 99.7     | 99.9     | 100.0    |
| GE 000                | 36.6                 | 58.4     | 75.8     | 80.5     | 90.4     | 94.3     | 94.7     | 97.4     | 98.6     | 98.6     | 99.1     | 99.4     | 99.7     | 99.7     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1168

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 34.2                 | 50.1     | 56.2     | 57.7     | 60.3     | 60.7     | 60.9     | 61.5     | 61.7     | 61.7     | 61.7     | 61.7     | 61.7     | 61.7     | 61.7     | 61.8     |
| GE 4500               | 34.4                 | 50.3     | 56.4     | 57.9     | 60.5     | 60.9     | 61.1     | 61.7     | 61.9     | 61.9     | 61.9     | 61.9     | 61.9     | 61.9     | 61.9     | 62.0     |
| GE 4000               | 35.2                 | 51.1     | 57.1     | 58.6     | 61.2     | 61.9     | 62.0     | 62.6     | 62.8     | 62.8     | 62.8     | 62.8     | 62.8     | 62.8     | 62.8     | 62.9     |
| GE 3500               | 35.8                 | 51.7     | 58.0     | 59.5     | 62.1     | 62.8     | 63.0     | 63.5     | 63.7     | 63.7     | 63.7     | 63.7     | 63.7     | 63.7     | 63.7     | 63.8     |
| GE 3000               | 39.4                 | 55.4     | 61.8     | 63.3     | 66.2     | 66.9     | 67.1     | 67.6     | 67.8     | 67.8     | 67.8     | 67.8     | 67.8     | 67.8     | 67.8     | 67.9     |
| GE 2500               | 53.8                 | 70.1     | 77.2     | 79.3     | 83.3     | 84.0     | 84.4     | 85.0     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.3     |
| GE 2000               | 60.1                 | 76.5     | 85.5     | 87.7     | 92.3     | 93.4     | 93.9     | 94.8     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     | 95.2     |
| GE 1800               | 60.9                 | 77.6     | 86.9     | 89.2     | 94.2     | 95.7     | 96.2     | 97.2     | 97.7     | 97.7     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8     | 97.9     |
| GE 1500               | 61.1                 | 77.8     | 87.2     | 89.6     | 94.7     | 96.6     | 97.0     | 98.4     | 99.1     | 99.1     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.3     |
| GE 1200               | 61.1                 | 77.8     | 87.2     | 89.6     | 94.9     | 96.8     | 97.3     | 98.7     | 99.4     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.6     |
| GE 1000               | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.0     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 900                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.0     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 800                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.0     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 700                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.0     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 600                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.0     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 500                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.1     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 400                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.1     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 300                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.1     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 200                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.1     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 100                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.1     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 000                | 61.2                 | 77.9     | 87.3     | 89.7     | 95.0     | 97.1     | 97.6     | 99.1     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1075

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE F CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 15-17

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 43.6                 | 59.0  | 63.2  | 63.5  | 65.0  | 65.5  | 65.8  | 65.9  | 66.0  | 66.0  | 66.0  | 66.0  | 66.0  | 66.0  | 66.0  | 66.0  |
| GE 4500  |      | 43.6                 | 59.0  | 63.2  | 63.5  | 65.0  | 65.5  | 65.8  | 65.9  | 66.0  | 66.0  | 66.0  | 66.0  | 66.0  | 66.0  | 66.0  | 66.0  |
| GE 4000  |      | 44.3                 | 59.6  | 63.9  | 64.3  | 65.9  | 66.4  | 66.7  | 66.9  | 67.0  | 67.0  | 67.0  | 67.0  | 67.0  | 67.0  | 67.0  | 67.0  |
| GE 3500  |      | 44.9                 | 60.2  | 64.7  | 65.1  | 66.7  | 67.2  | 67.5  | 67.7  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  | 67.8  |
| GE 3000  |      | 49.9                 | 65.3  | 69.9  | 70.5  | 72.1  | 72.6  | 72.9  | 73.1  | 73.1  | 73.1  | 73.1  | 73.1  | 73.1  | 73.1  | 73.1  | 73.1  |
| GE 2500  |      | 65.1                 | 80.7  | 86.1  | 86.9  | 88.7  | 89.3  | 89.6  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  |
| GE 2000  |      | 70.0                 | 85.7  | 92.2  | 93.3  | 96.2  | 96.8  | 97.1  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  |
| GE 1800  |      | 70.6                 | 86.3  | 93.0  | 94.2  | 97.3  | 98.1  | 98.4  | 98.6  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  |
| GE 1500  |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.0  | 99.0  | 99.3  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| GE 1200  |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.0  | 99.1  | 99.4  | 99.6  | 99.7  | 99.7  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  |
| GE 1000  |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 900   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 800   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 700   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 600   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 500   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 400   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 000   |      | 70.7                 | 86.4  | 93.2  | 94.5  | 98.1  | 99.3  | 99.6  | 99.8  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1132

### PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: 18-20

TOTAL NUMBER OF OBSERVATIONS 772

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 36.3                 | 54.1     | 61.9     | 63.6     | 67.2     | 68.4     | 68.7     | 69.5     | 70.1     | 70.1     | 70.2     | 70.4     | 70.4     | 70.4     | 70.4     | 70.5     |
| GE 4500               | 36.4                 | 54.2     | 62.0     | 63.7     | 67.3     | 68.5     | 68.8     | 69.6     | 70.2     | 70.2     | 70.3     | 70.4     | 70.5     | 70.5     | 70.5     | 70.6     |
| GE 4000               | 37.1                 | 54.9     | 62.8     | 64.5     | 68.1     | 69.4     | 69.7     | 70.5     | 71.1     | 71.1     | 71.2     | 71.4     | 71.4     | 71.4     | 71.4     | 71.5     |
| GE 3500               | 37.7                 | 55.6     | 63.6     | 65.2     | 68.9     | 70.2     | 70.5     | 71.3     | 71.9     | 71.9     | 72.0     | 72.2     | 72.2     | 72.2     | 72.2     | 72.3     |
| GE 3000               | 41.0                 | 58.9     | 67.0     | 68.8     | 72.7     | 74.1     | 74.3     | 75.3     | 75.8     | 75.8     | 75.9     | 76.1     | 76.1     | 76.1     | 76.2     | 76.3     |
| GE 2500               | 50.5                 | 68.7     | 77.9     | 80.0     | 84.7     | 86.4     | 86.7     | 87.9     | 88.5     | 88.5     | 88.6     | 88.8     | 88.8     | 88.8     | 88.8     | 88.9     |
| GE 2000               | 54.3                 | 72.7     | 83.2     | 85.6     | 91.1     | 93.0     | 93.3     | 94.7     | 95.4     | 95.4     | 95.5     | 95.7     | 95.8     | 95.8     | 95.8     | 95.9     |
| GE 1800               | 54.8                 | 73.2     | 83.9     | 86.4     | 92.2     | 94.4     | 94.8     | 96.3     | 97.1     | 97.1     | 97.2     | 97.4     | 97.4     | 97.4     | 97.5     | 97.6     |
| GE 1500               | 54.9                 | 73.3     | 84.2     | 86.8     | 92.9     | 95.5     | 95.8     | 97.5     | 98.4     | 98.4     | 98.6     | 98.7     | 98.8     | 98.8     | 98.9     | 99.0     |
| GE 1200               | 54.9                 | 73.3     | 84.3     | 86.8     | 93.1     | 95.8     | 96.1     | 97.8     | 98.8     | 98.8     | 98.9     | 99.1     | 99.2     | 99.2     | 99.3     | 99.4     |
| GE 1000               | 55.0                 | 73.4     | 84.4     | 86.9     | 93.2     | 96.0     | 96.4     | 98.2     | 99.2     | 99.2     | 99.3     | 99.6     | 99.6     | 99.6     | 99.7     | 99.8     |
| GE 900                | 55.0                 | 73.4     | 84.4     | 86.9     | 93.2     | 96.0     | 96.4     | 98.2     | 99.2     | 99.2     | 99.3     | 99.6     | 99.6     | 99.6     | 99.7     | 99.8     |
| GE 800                | 55.0                 | 73.4     | 84.4     | 86.9     | 93.3     | 96.0     | 96.4     | 98.2     | 99.2     | 99.2     | 99.4     | 99.6     | 99.7     | 99.7     | 99.7     | 99.8     |
| GE 700                | 55.0                 | 73.4     | 84.4     | 87.0     | 93.3     | 96.1     | 96.4     | 98.3     | 99.3     | 99.3     | 99.4     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 600                | 55.0                 | 73.4     | 84.4     | 87.0     | 93.3     | 96.1     | 96.4     | 98.3     | 99.3     | 99.3     | 99.4     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 500                | 55.0                 | 73.4     | 84.4     | 87.0     | 93.3     | 96.1     | 96.4     | 98.3     | 99.3     | 99.3     | 99.5     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 400                | 55.0                 | 73.4     | 84.4     | 87.0     | 93.3     | 96.1     | 96.4     | 98.3     | 99.3     | 99.3     | 99.5     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 300                | 55.0                 | 73.4     | 84.4     | 87.0     | 93.3     | 96.1     | 96.4     | 98.3     | 99.3     | 99.3     | 99.5     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    |
| GE 200                | 55.0                 | 73.4     | 84.4     | 87.0     | 93.3     | 96.1     | 96.4     | 98.3     | 99.3     | 99.3     | 99.5     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    |
| GE 100                | 55.0                 | 73.4     | 84.4     | 87.0     | 93.3     | 96.1     | 96.4     | 98.3     | 99.3     | 99.3     | 99.5     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    |
| GE 000                | 55.0                 | 73.4     | 84.4     | 87.0     | 93.3     | 96.1     | 96.4     | 98.3     | 99.3     | 99.3     | 99.5     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 4831

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 25.1                 | 53.2     | 70.2     | 73.4     | 80.3     | 82.4     | 82.6     | 84.8     | 84.8     | 85.0     | 85.0     | 85.3     | 85.3     | 85.3     | 85.3     | 85.5     |
| GE 4500               | 25.1                 | 53.2     | 70.2     | 73.4     | 80.3     | 82.4     | 82.6     | 84.8     | 84.8     | 85.0     | 85.0     | 85.3     | 85.3     | 85.3     | 85.3     | 85.5     |
| GE 4000               | 25.2                 | 53.3     | 70.4     | 73.6     | 80.4     | 82.5     | 82.8     | 85.0     | 85.0     | 85.1     | 85.1     | 85.4     | 85.4     | 85.4     | 85.4     | 85.7     |
| GE 3500               | 25.2                 | 53.3     | 70.5     | 73.7     | 80.6     | 82.8     | 83.1     | 85.3     | 85.3     | 85.4     | 85.4     | 85.7     | 85.7     | 85.7     | 85.7     | 86.0     |
| GE 3000               | 26.0                 | 54.3     | 72.3     | 75.9     | 83.1     | 85.3     | 85.5     | 87.9     | 87.9     | 88.0     | 88.0     | 88.3     | 88.3     | 88.3     | 88.3     | 88.6     |
| GE 2500               | 27.1                 | 55.8     | 74.5     | 78.4     | 86.5     | 88.7     | 89.0     | 91.5     | 91.5     | 91.6     | 91.6     | 91.9     | 91.9     | 91.9     | 91.9     | 92.1     |
| GE 2000               | 28.2                 | 57.0     | 76.4     | 80.4     | 89.1     | 92.8     | 93.1     | 95.9     | 95.9     | 96.0     | 96.1     | 96.4     | 96.4     | 96.4     | 96.4     | 96.7     |
| GE 1800               | 28.2                 | 57.0     | 76.7     | 80.7     | 89.5     | 93.3     | 93.7     | 96.7     | 96.7     | 96.8     | 97.1     | 97.4     | 97.4     | 97.4     | 97.4     | 97.7     |
| GE 1500               | 28.2                 | 57.0     | 77.1     | 81.1     | 89.9     | 93.7     | 94.1     | 97.2     | 97.2     | 97.4     | 97.7     | 97.9     | 97.9     | 97.9     | 97.9     | 98.2     |
| GE 1200               | 28.2                 | 57.0     | 77.4     | 81.4     | 90.4     | 94.1     | 94.5     | 97.8     | 97.8     | 97.9     | 98.2     | 98.5     | 98.5     | 98.5     | 98.5     | 98.8     |
| GE 1000               | 28.2                 | 57.0     | 77.4     | 81.4     | 90.4     | 94.2     | 94.6     | 98.1     | 98.1     | 98.2     | 98.5     | 98.8     | 98.8     | 98.8     | 98.8     | 99.0     |
| GE 900                | 28.2                 | 57.0     | 77.4     | 81.4     | 90.5     | 94.4     | 94.8     | 98.2     | 98.2     | 98.3     | 98.6     | 98.9     | 98.9     | 98.9     | 98.9     | 99.2     |
| GE 800                | 28.2                 | 57.0     | 77.5     | 81.7     | 90.8     | 94.6     | 95.0     | 98.5     | 98.5     | 98.6     | 98.9     | 99.2     | 99.2     | 99.2     | 99.2     | 99.4     |
| GE 700                | 28.2                 | 57.0     | 77.8     | 82.0     | 91.2     | 95.0     | 95.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.7     | 99.7     | 99.7     | 99.7     | 100.0    |
| GE 600                | 28.2                 | 57.0     | 77.8     | 82.0     | 91.2     | 95.0     | 95.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.7     | 99.7     | 99.7     | 99.7     | 100.0    |
| GE 500                | 28.2                 | 57.0     | 77.8     | 82.0     | 91.2     | 95.0     | 95.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.7     | 99.7     | 99.7     | 99.7     | 100.0    |
| GE 400                | 28.2                 | 57.0     | 77.8     | 82.0     | 91.2     | 95.0     | 95.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.7     | 99.7     | 99.7     | 99.7     | 100.0    |
| GE 300                | 28.2                 | 57.0     | 77.8     | 82.0     | 91.2     | 95.0     | 95.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.7     | 99.7     | 99.7     | 99.7     | 100.0    |
| GE 200                | 28.2                 | 57.0     | 77.8     | 82.0     | 91.2     | 95.0     | 95.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.7     | 99.7     | 99.7     | 99.7     | 100.0    |
| GE 100                | 28.2                 | 57.0     | 77.8     | 82.0     | 91.2     | 95.0     | 95.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.7     | 99.7     | 99.7     | 99.7     | 100.0    |
| GE 000                | 28.2                 | 57.0     | 77.8     | 82.0     | 91.2     | 95.0     | 95.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.7     | 99.7     | 99.7     | 99.7     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 726

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 26.4                 | 54.1     | 69.3     | 71.9     | 78.4     | 79.5     | 79.5     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     |
| GE 4500               | 26.4                 | 54.1     | 69.3     | 71.9     | 78.4     | 79.5     | 79.5     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     | 79.9     |
| GE 4000               | 27.0                 | 54.7     | 69.9     | 72.5     | 79.2     | 80.3     | 80.3     | 80.6     | 80.6     | 80.6     | 80.6     | 80.6     | 80.6     | 80.6     | 80.6     | 80.6     |
| GE 3500               | 27.4                 | 55.1     | 70.4     | 73.0     | 79.8     | 80.9     | 80.9     | 81.2     | 81.2     | 81.2     | 81.2     | 81.2     | 81.2     | 81.2     | 81.2     | 81.2     |
| GE 3000               | 29.0                 | 56.7     | 73.1     | 75.9     | 83.0     | 84.2     | 84.2     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     |
| GE 2500               | 32.2                 | 60.0     | 77.5     | 80.6     | 88.8     | 90.4     | 90.4     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     |
| GE 2000               | 35.3                 | 63.2     | 82.1     | 85.3     | 94.0     | 96.0     | 96.0     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5     |
| GE 1800               | 35.7                 | 63.6     | 82.7     | 86.0     | 94.9     | 97.1     | 97.1     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     |
| GE 1500               | 35.7                 | 63.7     | 83.2     | 86.5     | 95.7     | 97.9     | 97.9     | 98.5     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     |
| GE 1200               | 35.7                 | 63.7     | 83.2     | 86.6     | 96.0     | 98.3     | 98.3     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     |
| GE 1000               | 35.8                 | 63.8     | 83.3     | 86.7     | 96.2     | 98.6     | 98.6     | 99.2     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     |
| GE 900                | 35.8                 | 63.8     | 83.3     | 86.7     | 96.2     | 98.6     | 98.6     | 99.2     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     |
| GE 800                | 35.8                 | 63.8     | 83.3     | 86.7     | 96.2     | 98.6     | 98.6     | 99.2     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     |
| GE 700                | 35.8                 | 63.8     | 83.3     | 86.7     | 96.2     | 98.7     | 98.7     | 99.3     | 99.4     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     |
| GE 600                | 35.8                 | 63.8     | 83.3     | 86.8     | 96.4     | 98.8     | 98.8     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     |
| GE 500                | 35.8                 | 63.8     | 83.3     | 86.8     | 96.4     | 98.9     | 98.9     | 99.8     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 35.8                 | 63.8     | 83.3     | 86.8     | 96.4     | 98.9     | 98.9     | 99.8     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 35.8                 | 63.8     | 83.3     | 86.8     | 96.4     | 98.9     | 98.9     | 99.8     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 35.8                 | 63.8     | 83.3     | 86.8     | 96.4     | 98.9     | 98.9     | 99.8     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 35.8                 | 63.8     | 83.3     | 86.8     | 96.4     | 98.9     | 98.9     | 99.8     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 35.8                 | 63.8     | 83.3     | 86.8     | 96.4     | 98.9     | 98.9     | 99.8     | 99.9     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTL NUMBER OF OBSERVATIONS 1187

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 40.4                 | 60.8     | 67.6     | 68.4     | 70.0     | 70.1     | 70.1     | 70.1     | 70.2     | 70.2     | 70.2     | 70.2     | 70.2     | 70.2     | 70.2     | 70.2     |
| GE 4500               | 40.5                 | 60.9     | 67.7     | 68.5     | 70.1     | 70.2     | 70.2     | 70.2     | 70.3     | 70.3     | 70.3     | 70.3     | 70.3     | 70.3     | 70.3     | 70.3     |
| GE 4000               | 40.9                 | 61.4     | 68.1     | 69.0     | 70.6     | 70.7     | 70.7     | 70.7     | 70.8     | 70.8     | 70.8     | 70.8     | 70.8     | 70.8     | 70.8     | 70.8     |
| GE 3500               | 41.3                 | 61.8     | 68.7     | 69.6     | 71.2     | 71.3     | 71.3     | 71.3     | 71.4     | 71.4     | 71.4     | 71.4     | 71.4     | 71.4     | 71.4     | 71.4     |
| GE 3000               | 45.6                 | 66.4     | 73.9     | 74.8     | 77.0     | 77.1     | 77.1     | 77.1     | 77.2     | 77.2     | 77.2     | 77.2     | 77.2     | 77.2     | 77.2     | 77.2     |
| GE 2500               | 55.7                 | 77.2     | 86.0     | 87.2     | 89.7     | 89.8     | 89.8     | 89.8     | 89.8     | 89.8     | 89.8     | 90.0     | 90.0     | 90.0     | 90.0     | 90.0     |
| GE 2000               | 61.6                 | 83.5     | 93.0     | 94.2     | 96.9     | 97.5     | 97.5     | 97.5     | 97.6     | 97.6     | 97.6     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8     |
| GE 1800               | 62.0                 | 83.8     | 93.6     | 94.9     | 97.8     | 98.4     | 98.4     | 98.5     | 98.6     | 98.6     | 98.6     | 98.7     | 98.7     | 98.7     | 98.7     | 98.7     |
| GE 1500               | 62.2                 | 84.0     | 93.8     | 95.1     | 98.0     | 98.7     | 98.7     | 98.8     | 98.9     | 98.9     | 98.9     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     |
| GE 1200               | 62.2                 | 84.0     | 93.8     | 95.1     | 98.2     | 98.8     | 98.8     | 99.0     | 99.1     | 99.1     | 99.1     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     |
| GE 1000               | 62.4                 | 84.2     | 94.0     | 95.3     | 98.7     | 99.3     | 99.3     | 99.6     | 99.7     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 900                | 62.4                 | 84.2     | 94.0     | 95.3     | 98.7     | 99.3     | 99.3     | 99.6     | 99.7     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 800                | 62.4                 | 84.2     | 94.0     | 95.3     | 98.7     | 99.3     | 99.3     | 99.6     | 99.7     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 700                | 62.4                 | 84.2     | 94.1     | 95.4     | 98.7     | 99.4     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 62.4                 | 84.2     | 94.1     | 95.4     | 98.7     | 99.4     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 62.4                 | 84.2     | 94.1     | 95.4     | 98.7     | 99.4     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 62.4                 | 84.2     | 94.1     | 95.4     | 98.7     | 99.4     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 62.4                 | 84.2     | 94.1     | 95.4     | 98.7     | 99.4     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 62.4                 | 84.2     | 94.1     | 95.4     | 98.7     | 99.4     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 62.4                 | 84.2     | 94.1     | 95.4     | 98.7     | 99.4     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 62.4                 | 84.2     | 94.1     | 95.4     | 98.7     | 99.4     | 99.4     | 99.6     | 99.8     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1113

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 15-17

| CEILING  |      | VISIBILITY IN METERS |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
|----------|------|----------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| IN       | GE   | GE                   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE    | GE    | GE    | GE    | GE    |
| FEET     | 112  | 90                   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10    | 08    | 06    | 04    | 00    |       |
| NO CEIL  |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 20000 |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 18000 |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 16000 |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 14000 |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 12000 |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 10000 |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 9000  |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 8000  |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 7000  |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 6000  |      |                      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| GE 5000  | 49.6 | 67.4                 | 70.4 | 70.5 | 70.8 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9  | 70.9  | 70.9  | 70.9  | 70.9  | 70.9  |
| GE 4500  | 49.6 | 67.4                 | 70.4 | 70.5 | 70.8 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9  | 70.9  | 70.9  | 70.9  | 70.9  | 70.9  |
| GE 4000  | 50.0 | 68.1                 | 71.2 | 71.3 | 71.6 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7  | 71.7  | 71.7  | 71.7  | 71.7  | 71.7  |
| GE 3500  | 51.0 | 69.1                 | 72.2 | 72.3 | 72.5 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.7 | 72.7  | 72.7  | 72.7  | 72.7  | 72.7  | 72.7  |
| GE 3000  | 57.0 | 75.3                 | 78.9 | 79.3 | 79.8 | 80.1 | 80.1 | 80.1 | 80.2 | 80.2 | 80.3 | 80.3  | 80.3  | 80.3  | 80.3  | 80.3  | 80.3  |
| GE 2500  | 67.5 | 85.9                 | 90.0 | 90.5 | 91.1 | 91.4 | 91.4 | 91.4 | 91.5 | 91.5 | 91.6 | 91.7  | 91.7  | 91.7  | 91.7  | 91.7  | 91.7  |
| GE 2000  | 72.3 | 91.1                 | 95.5 | 96.1 | 97.6 | 98.3 | 98.3 | 98.3 | 98.4 | 98.4 | 98.5 | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  |
| GE 1800  | 72.7 | 91.6                 | 96.3 | 96.9 | 98.6 | 99.3 | 99.3 | 99.5 | 99.6 | 99.6 | 99.6 | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 1500  | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1200  | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1000  | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 900   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 800   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 700   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 600   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 500   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 400   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 000   | 72.8 | 91.7                 | 96.5 | 97.1 | 98.8 | 99.6 | 99.6 | 99.7 | 99.8 | 99.8 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1122

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: 18-20

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 60.9                 | 78.4  | 80.8  | 81.2  | 81.3  | 81.3  | 81.3  | 81.3  | 81.3  | 81.3  | 81.3  | 81.3  | 81.3  | 81.3  | 81.3  | 81.3  |
| GE 4500  |      | 61.0                 | 78.6  | 80.9  | 81.3  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  |
| GE 4000  |      | 61.9                 | 79.5  | 81.8  | 82.2  | 82.3  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  |
| GE 3500  |      | 62.3                 | 79.9  | 82.2  | 82.7  | 82.9  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  |
| GE 3000  |      | 64.7                 | 82.2  | 84.8  | 85.5  | 85.6  | 85.7  | 85.7  | 85.7  | 85.7  | 85.7  | 85.7  | 85.7  | 85.7  | 85.7  | 85.7  | 85.7  |
| GE 2500  |      | 71.7                 | 89.2  | 92.3  | 93.2  | 93.4  | 93.5  | 93.5  | 93.5  | 93.5  | 93.5  | 93.5  | 93.5  | 93.5  | 93.5  | 93.5  | 93.5  |
| GE 2000  |      | 74.8                 | 92.3  | 96.0  | 96.9  | 97.9  | 98.4  | 98.4  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  |
| GE 1800  |      | 75.1                 | 92.6  | 96.6  | 97.5  | 98.6  | 99.1  | 99.1  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  |
| GE 1500  |      | 75.1                 | 92.6  | 96.8  | 97.7  | 98.8  | 99.4  | 99.4  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 1200  |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1000  |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 900   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 800   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 700   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 600   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 500   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 400   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 000   |      | 75.3                 | 92.9  | 97.0  | 97.9  | 99.1  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 770

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 40.1                 | 62.3     | 71.1     | 72.4     | 75.5     | 76.1     | 76.1     | 76.6     | 76.6     | 76.6     | 76.6     | 76.7     | 76.7     | 76.7     | 76.7     | 76.7     |
| GE 4500               | 40.1                 | 62.4     | 71.1     | 72.5     | 75.5     | 76.1     | 76.2     | 76.6     | 76.6     | 76.6     | 76.7     | 76.7     | 76.7     | 76.7     | 76.7     | 76.7     |
| GE 4000               | 40.6                 | 62.9     | 71.7     | 73.1     | 76.2     | 76.8     | 76.9     | 77.3     | 77.3     | 77.3     | 77.3     | 77.4     | 77.4     | 77.4     | 77.4     | 77.4     |
| GE 3500               | 41.1                 | 63.4     | 72.3     | 73.7     | 76.8     | 77.5     | 77.5     | 77.9     | 77.9     | 77.9     | 78.0     | 78.0     | 78.0     | 78.0     | 78.0     | 78.0     |
| GE 3000               | 44.3                 | 66.8     | 76.3     | 77.9     | 81.3     | 82.1     | 82.1     | 82.6     | 82.6     | 82.6     | 82.6     | 82.7     | 82.7     | 82.7     | 82.7     | 82.7     |
| GE 2500               | 51.0                 | 73.7     | 84.2     | 86.0     | 89.9     | 90.7     | 90.8     | 91.2     | 91.3     | 91.3     | 91.3     | 91.4     | 91.4     | 91.4     | 91.4     | 91.5     |
| GE 2000               | 54.8                 | 77.8     | 89.0     | 90.9     | 95.4     | 96.8     | 96.8     | 97.4     | 97.4     | 97.4     | 97.5     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     |
| GE 1800               | 55.2                 | 78.1     | 89.6     | 91.5     | 96.2     | 97.6     | 97.7     | 98.4     | 98.4     | 98.4     | 98.5     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     |
| GE 1500               | 55.2                 | 78.2     | 89.9     | 91.8     | 96.6     | 98.0     | 98.1     | 98.8     | 98.9     | 98.9     | 99.0     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     |
| GE 1200               | 55.3                 | 78.3     | 90.0     | 91.9     | 96.8     | 98.3     | 98.4     | 99.1     | 99.2     | 99.2     | 99.2     | 99.3     | 99.4     | 99.4     | 99.4     | 99.4     |
| GE 1000               | 55.3                 | 78.3     | 90.0     | 92.0     | 96.9     | 98.5     | 98.5     | 99.3     | 99.4     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     |
| GE 900                | 55.3                 | 78.3     | 90.0     | 92.0     | 97.0     | 98.5     | 98.6     | 99.4     | 99.5     | 99.5     | 99.5     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 800                | 55.3                 | 78.3     | 90.0     | 92.0     | 97.0     | 98.5     | 98.6     | 99.4     | 99.5     | 99.5     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 700                | 55.3                 | 78.3     | 90.1     | 92.1     | 97.1     | 98.6     | 98.7     | 99.5     | 99.6     | 99.6     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 600                | 55.3                 | 78.3     | 90.1     | 92.1     | 97.1     | 98.7     | 98.7     | 99.6     | 99.7     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 500                | 55.3                 | 78.3     | 90.1     | 92.1     | 97.1     | 98.7     | 98.8     | 99.7     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 55.3                 | 78.3     | 90.1     | 92.1     | 97.1     | 98.7     | 98.8     | 99.7     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 55.3                 | 78.3     | 90.1     | 92.1     | 97.1     | 98.7     | 98.8     | 99.7     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 55.3                 | 78.3     | 90.1     | 92.1     | 97.1     | 98.7     | 98.8     | 99.7     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 55.3                 | 78.3     | 90.1     | 92.1     | 97.1     | 98.7     | 98.8     | 99.7     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 55.3                 | 78.3     | 90.1     | 92.1     | 97.1     | 98.7     | 98.8     | 99.7     | 99.7     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 4918

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 06-08

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 23.1                 | 58.0  | 73.4  | 77.6  | 84.2  | 87.0  | 87.3  | 89.8  | 90.0  | 90.0  | 90.0  | 90.3  | 90.3  | 90.3  | 90.3  | 90.3  |
| GE 4500  |      | 23.1                 | 58.0  | 73.4  | 77.6  | 84.2  | 87.0  | 87.3  | 89.8  | 90.0  | 90.0  | 90.0  | 90.3  | 90.3  | 90.3  | 90.3  | 90.3  |
| GE 4000  |      | 23.1                 | 58.0  | 73.4  | 77.6  | 84.2  | 87.0  | 87.3  | 89.8  | 90.0  | 90.0  | 90.0  | 90.3  | 90.5  | 90.5  | 90.5  | 90.5  |
| GE 3500  |      | 23.3                 | 58.1  | 73.6  | 77.9  | 84.5  | 87.3  | 87.6  | 90.0  | 90.3  | 90.3  | 90.3  | 90.6  | 90.8  | 90.8  | 90.8  | 90.8  |
| GE 3000  |      | 24.2                 | 59.2  | 74.7  | 78.9  | 85.5  | 88.3  | 88.6  | 91.1  | 91.4  | 91.4  | 91.4  | 91.7  | 91.8  | 91.8  | 91.8  | 91.8  |
| GE 2500  |      | 25.0                 | 60.2  | 76.4  | 80.7  | 87.6  | 90.5  | 90.8  | 93.6  | 94.0  | 94.0  | 94.0  | 94.3  | 94.4  | 94.4  | 94.4  | 94.4  |
| GE 2000  |      | 25.2                 | 60.5  | 77.3  | 81.8  | 89.6  | 92.7  | 93.0  | 96.0  | 96.5  | 96.5  | 96.5  | 96.8  | 96.9  | 96.9  | 96.9  | 96.9  |
| GE 1800  |      | 25.2                 | 60.5  | 77.5  | 82.0  | 89.9  | 93.3  | 93.6  | 96.6  | 97.2  | 97.2  | 97.2  | 97.5  | 97.7  | 97.7  | 97.7  | 97.7  |
| GE 1500  |      | 25.2                 | 60.5  | 77.7  | 82.4  | 90.3  | 93.7  | 94.0  | 97.1  | 97.7  | 97.7  | 97.7  | 98.0  | 98.1  | 98.1  | 98.1  | 98.1  |
| GE 1200  |      | 25.2                 | 60.5  | 77.7  | 82.4  | 90.8  | 94.3  | 94.7  | 97.8  | 98.4  | 98.4  | 98.4  | 98.7  | 98.8  | 98.8  | 98.8  | 98.8  |
| GE 1000  |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.1  | 95.2  | 95.6  | 98.7  | 99.3  | 99.3  | 99.3  | 99.6  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 900   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.1  | 95.2  | 95.6  | 98.7  | 99.3  | 99.3  | 99.3  | 99.6  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 800   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.1  | 95.2  | 95.6  | 98.7  | 99.3  | 99.3  | 99.3  | 99.6  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 700   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.2  | 95.3  | 95.8  | 98.8  | 99.4  | 99.4  | 99.4  | 99.7  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 600   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.2  | 95.3  | 95.8  | 98.8  | 99.4  | 99.4  | 99.4  | 99.7  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 500   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.2  | 95.3  | 95.8  | 98.8  | 99.4  | 99.4  | 99.4  | 99.7  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 400   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.2  | 95.3  | 95.8  | 98.8  | 99.4  | 99.4  | 99.4  | 99.7  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 300   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.2  | 95.3  | 95.8  | 98.8  | 99.4  | 99.4  | 99.4  | 99.7  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 200   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.2  | 95.3  | 95.8  | 98.8  | 99.4  | 99.4  | 99.4  | 99.7  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 100   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.2  | 95.3  | 95.8  | 98.8  | 99.4  | 99.4  | 99.4  | 99.7  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 000   |      | 25.3                 | 60.6  | 78.0  | 82.7  | 91.2  | 95.3  | 95.8  | 98.8  | 99.4  | 99.4  | 99.4  | 99.7  | 99.9  | 99.9  | 99.9  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 683

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 23.1                 | 57.1     | 73.5     | 76.6     | 81.6     | 83.4     | 83.9     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     |
| GE 4500               | 23.1                 | 57.1     | 73.5     | 76.6     | 81.6     | 83.4     | 83.9     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     |
| GE 4000               | 23.2                 | 57.3     | 73.8     | 76.9     | 82.0     | 83.8     | 84.2     | 84.8     | 84.8     | 84.8     | 84.8     | 84.8     | 84.8     | 84.8     | 84.8     | 84.8     |
| GE 3500               | 23.4                 | 57.5     | 74.1     | 77.2     | 82.2     | 84.0     | 84.5     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1     |
| GE 3000               | 24.4                 | 58.6     | 75.8     | 79.2     | 84.7     | 86.6     | 87.1     | 87.6     | 87.6     | 87.6     | 87.6     | 87.6     | 87.6     | 87.6     | 87.6     | 87.6     |
| GE 2500               | 26.7                 | 61.1     | 79.7     | 83.4     | 89.7     | 91.9     | 92.4     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1     |
| GE 2000               | 28.3                 | 62.7     | 82.1     | 86.1     | 93.0     | 95.4     | 96.1     | 97.2     | 97.2     | 97.2     | 97.2     | 97.2     | 97.2     | 97.2     | 97.2     | 97.2     |
| GE 1800               | 28.4                 | 62.9     | 82.3     | 86.4     | 93.3     | 95.8     | 96.5     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     |
| GE 1500               | 28.4                 | 62.9     | 82.3     | 86.4     | 93.3     | 95.9     | 96.7     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     |
| GE 1200               | 28.6                 | 63.1     | 82.6     | 86.7     | 93.6     | 96.2     | 97.0     | 98.8     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     |
| GE 1000               | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.3     | 99.4     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 900                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.6     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 800                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.6     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 700                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     |
| GE 600                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 500                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 28.7                 | 63.3     | 82.9     | 87.0     | 93.9     | 96.4     | 97.4     | 99.5     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1097

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 12-14

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 35.1                 | 66.7  | 77.3  | 79.5  | 82.3  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.6  |
| GE 4500  |      | 35.1                 | 66.7  | 77.3  | 79.5  | 82.3  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.5  | 82.6  |
| GE 4000  |      | 35.3                 | 67.0  | 77.8  | 80.0  | 82.8  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.0  | 83.1  |
| GE 3500  |      | 35.6                 | 67.3  | 78.1  | 80.3  | 83.1  | 83.3  | 83.3  | 83.3  | 83.3  | 83.3  | 83.3  | 83.3  | 83.3  | 83.3  | 83.3  | 83.4  |
| GE 3000  |      | 37.1                 | 69.0  | 80.5  | 82.7  | 85.8  | 86.1  | 86.1  | 86.1  | 86.1  | 86.1  | 86.1  | 86.1  | 86.1  | 86.1  | 86.1  | 86.1  |
| GE 2500  |      | 42.8                 | 74.9  | 87.3  | 89.7  | 93.2  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.7  |
| GE 2000  |      | 44.6                 | 76.7  | 90.4  | 92.9  | 97.2  | 97.9  | 98.0  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.3  |
| GE 1800  |      | 44.6                 | 76.7  | 90.5  | 93.1  | 97.5  | 98.5  | 98.6  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.9  |
| GE 1500  |      | 44.6                 | 76.8  | 90.9  | 93.5  | 97.9  | 99.1  | 99.3  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.6  |
| GE 1200  |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.5  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.8  |
| GE 1000  |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.5  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.8  |
| GE 900   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  |
| GE 800   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 700   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 600   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 500   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 400   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 300   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 200   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 100   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 000   |      | 44.7                 | 76.9  | 91.0  | 93.6  | 98.1  | 99.3  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1018

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 43.5                 | 77.1     | 85.5     | 86.3     | 87.1     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     |
| GE 4500               | 43.5                 | 77.1     | 85.5     | 86.3     | 87.1     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     |
| GE 4000               | 44.2                 | 77.8     | 86.2     | 87.0     | 87.8     | 88.0     | 88.0     | 88.0     | 88.0     | 88.0     | 88.0     | 88.0     | 88.0     | 88.0     | 88.0     | 88.0     |
| GE 3500               | 44.7                 | 78.3     | 86.8     | 87.6     | 88.4     | 88.6     | 88.6     | 88.6     | 88.6     | 8.6      | 88.6     | 88.6     | 88.6     | 88.6     | 88.6     | 88.6     |
| GE 3000               | 46.9                 | 80.6     | 89.5     | 90.5     | 91.3     | 91.5     | 91.5     | 91.5     | 91.5     | 91.5     | 91.5     | 91.5     | 91.5     | 91.5     | 91.5     | 91.6     |
| GE 2500               | 51.6                 | 85.3     | 94.9     | 95.8     | 96.8     | 97.1     | 97.1     | 97.1     | 97.1     | 97.1     | 97.2     | 97.2     | 97.2     | 97.2     | 97.2     | 97.3     |
| GE 2000               | 52.5                 | 86.2     | 95.9     | 96.9     | 97.9     | 98.2     | 98.2     | 98.4     | 98.4     | 98.4     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.6     |
| GE 1800               | 52.6                 | 86.3     | 96.0     | 97.0     | 98.0     | 98.4     | 98.4     | 98.6     | 98.6     | 98.6     | 98.7     | 98.7     | 98.7     | 98.7     | 98.7     | 98.8     |
| GE 1500               | 52.6                 | 86.3     | 96.0     | 97.1     | 98.3     | 98.7     | 98.7     | 99.0     | 99.0     | 99.0     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.2     |
| GE 1200               | 52.6                 | 86.3     | 96.2     | 97.3     | 98.5     | 98.9     | 99.0     | 99.3     | 99.3     | 99.3     | 99.4     | 99.4     | 99.4     | 99.4     | 99.4     | 99.5     |
| GE 1000               | 52.6                 | 86.3     | 96.4     | 97.5     | 98.7     | 99.1     | 99.2     | 99.5     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 900                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.7     | 99.1     | 99.2     | 99.5     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 800                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.7     | 99.1     | 99.2     | 99.5     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 700                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.8     | 99.2     | 99.3     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 600                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.8     | 99.2     | 99.3     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 500                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.8     | 99.2     | 99.3     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 400                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.8     | 99.2     | 99.3     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 300                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.8     | 99.2     | 99.3     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 200                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.8     | 99.2     | 99.3     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 100                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.8     | 99.2     | 99.3     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 000                | 52.6                 | 86.3     | 96.4     | 97.5     | 98.8     | 99.2     | 99.3     | 99.6     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 985

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: -NOV 74 - OCT 89  
MONTH: JUN HOURS: 18-20

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE       | 5000 | 48.3                 | 83.6  | 90.3  | 91.5  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  |
| GE       | 4500 | 48.3                 | 83.6  | 90.3  | 91.5  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  |
| GE       | 4000 | 48.9                 | 84.1  | 91.2  | 92.4  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  | 93.8  |
| GE       | 3500 | 49.5                 | 84.7  | 91.9  | 93.1  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  |
| GE       | 3000 | 50.7                 | 85.9  | 93.4  | 94.7  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  |
| GE       | 2500 | 51.7                 | 86.9  | 94.9  | 96.6  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  |
| GE       | 2000 | 52.3                 | 87.5  | 95.4  | 97.2  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| GE       | 1800 | 52.4                 | 87.7  | 95.7  | 97.5  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  |
| GE       | 1500 | 52.4                 | 87.7  | 95.7  | 97.5  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  |
| GE       | 1200 | 52.4                 | 87.7  | 95.9  | 97.7  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| GE       | 1000 | 52.4                 | 87.7  | 95.9  | 97.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE       | 900  | 52.4                 | 87.7  | 95.9  | 97.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE       | 800  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 700  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 600  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 500  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 400  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 300  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 200  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 100  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 000  | 52.6                 | 87.8  | 96.0  | 97.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 681

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 34.2                 | 67.9     | 79.5     | 81.8     | 85.1     | 86.1     | 86.2     | 86.7     | 86.8     | 86.8     | 86.8     | 86.8     | 86.8     | 86.8     | 86.8     | 86.9     |
| GE 4500               | 34.2                 | 67.9     | 79.5     | 81.8     | 85.1     | 86.1     | 86.2     | 86.7     | 86.8     | 86.8     | 86.8     | 86.8     | 86.8     | 86.8     | 86.8     | 86.9     |
| GE 4000               | 34.5                 | 68.2     | 80.0     | 82.3     | 85.6     | 86.6     | 86.7     | 87.2     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.3     | 87.4     |
| GE 3500               | 34.8                 | 68.6     | 80.5     | 82.7     | 86.0     | 87.0     | 87.1     | 87.7     | 87.7     | 87.7     | 87.7     | 87.7     | 87.8     | 87.8     | 87.8     | 87.8     |
| GE 3000               | 36.2                 | 70.1     | 82.4     | 84.8     | 88.3     | 89.3     | 89.4     | 90.0     | 90.0     | 90.0     | 90.0     | 90.1     | 90.1     | 90.1     | 90.1     | 90.1     |
| GE 2500               | 39.4                 | 73.4     | 86.6     | 89.2     | 93.1     | 94.2     | 94.4     | 95.0     | 95.0     | 95.0     | 95.0     | 95.1     | 95.1     | 95.1     | 95.1     | 95.2     |
| GE 2000               | 40.5                 | 74.5     | 88.4     | 91.1     | 95.4     | 96.8     | 97.0     | 97.8     | 97.9     | 97.9     | 97.9     | 97.9     | 98.0     | 98.0     | 98.0     | 98.0     |
| GE 1800               | 40.6                 | 74.6     | 88.5     | 91.3     | 95.7     | 97.2     | 97.4     | 98.3     | 98.4     | 98.4     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.6     |
| GE 1500               | 40.6                 | 74.6     | 88.6     | 91.5     | 95.9     | 97.4     | 97.7     | 98.8     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 99.0     |
| GE 1200               | 40.7                 | 74.7     | 88.8     | 91.6     | 96.2     | 97.7     | 98.1     | 99.1     | 99.2     | 99.2     | 99.2     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     |
| GE 1000               | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.0     | 98.3     | 99.4     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     |
| GE 900                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.0     | 98.4     | 99.5     | 99.6     | 99.6     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     |
| GE 800                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.0     | 98.4     | 99.5     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     |
| GE 700                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.1     | 98.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 600                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.1     | 98.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 500                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.1     | 98.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 400                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.1     | 98.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 300                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.1     | 98.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 200                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.1     | 98.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| G 100                 | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.1     | 98.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 000                | 40.7                 | 74.8     | 89.0     | 91.8     | 96.4     | 98.1     | 98.4     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 4464

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 20.4                 | 55.4     | 75.6     | 79.3     | 88.3     | 91.2     | 91.3     | 92.4     | 92.6     | 92.6     | 92.6     | 92.6     | 92.6     | 92.6     | 92.7     | 93.2     |
| GE 4500               | 20.4                 | 55.4     | 75.6     | 79.3     | 88.3     | 91.2     | 91.3     | 92.4     | 92.6     | 92.6     | 92.6     | 92.6     | 92.6     | 92.6     | 92.7     | 93.2     |
| GE 4000               | 20.4                 | 55.4     | 75.7     | 79.4     | 88.4     | 91.3     | 91.4     | 92.6     | 92.7     | 92.7     | 92.7     | 92.7     | 92.7     | 92.7     | 92.8     | 93.4     |
| GE 3500               | 20.7                 | 55.7     | 76.1     | 79.9     | 88.8     | 91.7     | 91.9     | 93.0     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1     | 93.1     | 93.2     | 93.8     |
| GE 3000               | 20.7                 | 55.7     | 76.1     | 80.0     | 89.8     | 92.7     | 92.8     | 93.9     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1     | 94.2     | 94.8     |
| GE 2500               | 21.7                 | 56.7     | 77.5     | 81.5     | 92.3     | 95.4     | 95.6     | 96.8     | 97.0     | 97.0     | 97.0     | 97.0     | 97.0     | 97.0     | 97.1     | 97.7     |
| GE 2000               | 21.9                 | 57.0     | 77.8     | 81.8     | 92.6     | 96.1     | 96.3     | 97.7     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8     | 97.9     | 98.5     |
| GE 1800               | 21.9                 | 57.0     | 77.8     | 81.8     | 92.7     | 96.3     | 96.4     | 97.8     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9     | 98.1     | 98.6     |
| GE 1500               | 21.9                 | 57.0     | 77.8     | 81.8     | 92.8     | 96.4     | 96.6     | 98.1     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2     | 98.3     | 98.9     |
| GE 1200               | 21.9                 | 57.0     | 77.8     | 81.8     | 93.0     | 96.6     | 96.7     | 98.3     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.6     | 99.2     |
| GE 1000               | 21.9                 | 57.0     | 77.8     | 81.9     | 93.1     | 96.7     | 96.8     | 98.5     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.8     | 99.3     |
| GE 900                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.1     | 96.7     | 96.8     | 98.5     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.8     | 99.4     |
| GE 800                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.1     | 96.7     | 96.8     | 98.5     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.8     | 99.4     |
| GE 700                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.2     | 97.1     | 97.2     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.9     |
| GE 600                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.2     | 97.1     | 97.2     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.9     |
| GE 500                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.2     | 97.1     | 97.2     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.9     |
| GE 400                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.2     | 97.1     | 97.2     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.9     |
| GE 300                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.2     | 97.1     | 97.2     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.9     |
| GE 200                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.2     | 97.1     | 97.2     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.2     | 99.9     |
| GE 100                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.4     | 97.2     | 97.4     | 99.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.3     | 100.0    |
| GE 000                | 21.9                 | 57.0     | 77.8     | 81.9     | 93.4     | 97.2     | 97.4     | 99.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.3     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 725

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 17.1                 | 55.4     | 75.2     | 80.8     | 89.2     | 91.5     | 92.0     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     |
| GE 4500               | 17.1                 | 55.4     | 75.2     | 80.8     | 89.2     | 91.5     | 92.0     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     |
| GE 4000               | 17.1                 | 55.4     | 75.2     | 80.8     | 89.3     | 91.6     | 92.1     | 92.4     | 92.4     | 92.4     | 92.4     | 92.4     | 92.4     | 92.4     | 92.5     | 92.5     |
| GE 3500               | 17.2                 | 55.5     | 75.5     | 81.3     | 89.9     | 92.2     | 92.7     | 93.0     | 93.0     | 93.0     | 93.0     | 93.0     | 93.0     | 93.0     | 93.1     | 93.1     |
| GE 3000               | 17.8                 | 56.1     | 76.5     | 82.4     | 91.6     | 94.0     | 94.5     | 94.9     | 94.9     | 94.9     | 94.9     | 94.9     | 94.9     | 94.9     | 95.0     | 95.0     |
| GE 2500               | 18.8                 | 57.1     | 78.0     | 83.9     | 93.9     | 96.5     | 97.0     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4     | 97.5     | 97.5     |
| GE 2000               | 18.9                 | 57.2     | 78.3     | 84.3     | 94.7     | 97.3     | 97.8     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     |
| GE 1800               | 18.9                 | 57.2     | 78.3     | 84.3     | 94.7     | 97.3     | 97.8     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     |
| GE 1500               | 18.9                 | 57.2     | 78.4     | 84.3     | 94.9     | 97.7     | 98.2     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.1     | 99.1     |
| GE 1200               | 18.9                 | 57.2     | 78.4     | 84.3     | 94.9     | 97.7     | 98.2     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     |
| GE 1000               | 18.9                 | 57.2     | 78.4     | 84.3     | 94.9     | 97.7     | 98.2     | 99.1     | 99.1     | 99.1     | 99.1     | 99.2     | 99.2     | 99.2     | 99.3     | 99.3     |
| GE 900                | 18.9                 | 57.2     | 78.4     | 84.3     | 94.9     | 97.7     | 98.2     | 99.1     | 99.1     | 99.1     | 99.1     | 99.2     | 99.2     | 99.2     | 99.3     | 99.3     |
| GE 800                | 18.9                 | 57.2     | 78.4     | 84.3     | 94.9     | 97.7     | 98.2     | 99.1     | 99.1     | 99.1     | 99.1     | 99.3     | 99.3     | 99.3     | 99.4     | 99.4     |
| GE 700                | 18.9                 | 57.2     | 78.7     | 84.8     | 95.4     | 98.1     | 98.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 600                | 18.9                 | 57.2     | 78.7     | 84.8     | 95.4     | 98.1     | 98.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     |
| GE 500                | 18.9                 | 57.2     | 78.7     | 84.8     | 95.4     | 98.1     | 98.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 400                | 18.9                 | 57.2     | 78.7     | 84.8     | 95.4     | 98.1     | 98.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 300                | 18.9                 | 57.2     | 78.7     | 84.8     | 95.4     | 98.1     | 98.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 200                | 18.9                 | 57.2     | 78.7     | 84.8     | 95.4     | 98.1     | 98.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 100                | 18.9                 | 57.2     | 78.7     | 84.8     | 95.4     | 98.1     | 98.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 000                | 18.9                 | 57.2     | 78.7     | 84.8     | 95.4     | 98.1     | 98.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1162

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 24.0                 | 66.8     | 81.6     | 87.0     | 93.2     | 94.2     | 94.4     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     |
| GE 4500               | 24.0                 | 66.8     | 81.6     | 87.0     | 93.2     | 94.2     | 94.4     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     |
| GE 4000               | 24.3                 | 67.1     | 81.9     | 87.4     | 93.5     | 94.6     | 94.8     | 94.9     | 94.9     | 94.9     | 94.9     | 94.9     | 94.9     | 94.9     | 94.9     | 94.9     |
| GE 3500               | 24.5                 | 67.3     | 82.2     | 87.6     | 93.8     | 94.9     | 95.0     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     |
| GE 3000               | 24.8                 | 67.6     | 82.6     | 88.0     | 94.4     | 95.7     | 95.9     | 96.1     | 96.1     | 96.1     | 96.1     | 96.1     | 96.1     | 96.1     | 96.1     | 96.1     |
| GE 2500               | 26.2                 | 69.1     | 84.8     | 90.4     | 97.4     | 98.7     | 98.9     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     |
| GE 2000               | 26.5                 | 69.4     | 85.2     | 90.8     | 97.9     | 99.3     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 1800               | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1500               | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1200               | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1000               | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 900                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 800                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 700                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 26.5                 | 69.4     | 85.3     | 90.9     | 98.0     | 99.4     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1068

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 15-17

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE       | 5000 | 34.6                 | 83.7  | 91.0  | 94.5  | 96.5  | 96.8  | 96.8  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  |
| GE       | 4500 | 34.6                 | 83.7  | 91.0  | 94.5  | 96.5  | 96.8  | 96.8  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  |
| GE       | 4000 | 34.8                 | 83.9  | 91.1  | 94.6  | 96.7  | 97.0  | 97.0  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  |
| GE       | 3500 | 34.9                 | 83.9  | 91.2  | 94.9  | 97.0  | 97.2  | 97.2  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  |
| GE       | 3000 | 35.6                 | 84.7  | 92.0  | 95.7  | 97.7  | 98.0  | 98.0  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  |
| GE       | 2500 | 36.4                 | 85.5  | 93.3  | 97.4  | 99.4  | 99.7  | 99.7  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE       | 2000 | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 1800 | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 1500 | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 1200 | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 1000 | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 900  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 800  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 700  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 600  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 500  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 400  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 300  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 200  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 100  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE       | 000  | 36.4                 | 85.5  | 93.4  | 97.5  | 99.5  | 99.8  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1084

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN KILOMETERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112                | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 35.7                     | 87.8     | 95.5     | 96.6     | 98.0     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     |
| GE 4500               | 35.7                     | 87.8     | 95.5     | 96.6     | 98.0     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     | 98.6     |
| GE 4000               | 35.9                     | 87.9     | 95.7     | 96.8     | 98.3     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     |
| GE 3500               | 36.1                     | 88.2     | 95.9     | 97.1     | 98.6     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     |
| GE 3000               | 36.7                     | 88.7     | 96.5     | 97.6     | 99.1     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 2500               | 36.8                     | 88.8     | 96.6     | 97.8     | 99.2     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 2000               | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1800               | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1500               | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1200               | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1000               | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 900                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 800                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 700                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 36.9                     | 89.0     | 96.7     | 97.9     | 99.3     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 761

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL HOURS: ALL

| CEILING  |      | VISIBILITY IN METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|----------|------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| IN       | GE   | GE                   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    |
| FEET     | 112  | 90                   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 08   | 06   | 04   | 00    |
| NO CEIL  |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 20000 |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 18000 |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 16000 |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 14000 |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 12000 |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 10000 |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 9000  |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 8000  |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 7000  |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 6000  |      |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
| GE 5000  | 26.0 | 69.5                 | 83.5 | 87.5 | 93.0 | 94.4 | 94.5 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 95.0  |
| GE 4500  | 26.0 | 69.5                 | 83.5 | 87.5 | 93.0 | 94.4 | 94.5 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9 | 95.0  |
| GE 4000  | 26.2 | 69.6                 | 83.6 | 87.7 | 93.2 | 94.6 | 94.8 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.2  |
| GE 3500  | 26.4 | 69.8                 | 83.9 | 88.1 | 93.6 | 94.9 | 95.1 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.6  |
| GE 3000  | 26.8 | 70.2                 | 84.5 | 88.7 | 94.5 | 96.0 | 96.1 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.6 | 96.6  |
| GE 2500  | 27.7 | 71.2                 | 85.8 | 90.3 | 96.5 | 98.1 | 98.3 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.8  |
| GE 2000  | 27.9 | 71.3                 | 86.1 | 90.5 | 96.9 | 98.6 | 98.8 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.4  |
| GE 1800  | 27.9 | 71.3                 | 86.1 | 90.5 | 97.0 | 98.6 | 98.8 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 | 99.4  |
| GE 1500  | 27.9 | 71.3                 | 86.1 | 90.5 | 97.0 | 98.7 | 98.9 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.6  |
| GE 1200  | 27.9 | 71.3                 | 86.1 | 90.5 | 97.1 | 98.8 | 98.9 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.6 | 99.7  |
| GE 1000  | 27.9 | 71.3                 | 86.1 | 90.6 | 97.1 | 98.8 | 99.0 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.7  |
| GE 900   | 27.9 | 71.3                 | 86.1 | 90.6 | 97.1 | 98.8 | 99.0 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.8  |
| GE 800   | 27.9 | 71.3                 | 86.1 | 90.6 | 97.1 | 98.8 | 99.0 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.7 | 99.8  |
| GE 700   | 27.9 | 71.3                 | 86.2 | 90.7 | 97.2 | 98.9 | 99.1 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9  |
| GE 600   | 27.9 | 71.3                 | 86.2 | 90.7 | 97.2 | 98.9 | 99.1 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 100.0 |
| GE 500   | 27.9 | 71.3                 | 86.2 | 90.7 | 97.2 | 98.9 | 99.1 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 100.0 |
| GE 400   | 27.9 | 71.3                 | 86.2 | 90.7 | 97.2 | 98.9 | 99.1 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 100.0 |
| GE 300   | 27.9 | 71.3                 | 86.2 | 90.7 | 97.2 | 98.9 | 99.1 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 100.0 |
| GE 200   | 27.9 | 71.3                 | 86.2 | 90.7 | 97.2 | 98.9 | 99.1 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 99.9 | 100.0 |
| GE 100   | 27.9 | 71.3                 | 86.2 | 90.7 | 97.2 | 99.0 | 99.1 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 100.0 |
| GE 000   | 27.9 | 71.3                 | 86.2 | 90.7 | 97.2 | 99.0 | 99.1 | 99.8 | 99.8 | 99.8 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 4800

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: 06-08

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 18.9                 | 59.6  | 77.9  | 82.6  | 90.2  | 93.3  | 93.5  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 95.0  |
| GE 4500  |      | 18.9                 | 59.6  | 77.9  | 82.6  | 90.2  | 93.3  | 93.5  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 95.0  |
| GE 4000  |      | 18.9                 | 59.6  | 78.0  | 82.7  | 90.3  | 93.4  | 93.7  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 95.1  |
| GE 3500  |      | 18.9                 | 59.6  | 78.0  | 82.7  | 90.3  | 93.4  | 93.7  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 95.1  |
| GE 3000  |      | 19.5                 | 60.2  | 78.8  | 83.7  | 91.5  | 94.7  | 95.0  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.5  |
|          |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 2500  |      | 19.9                 | 60.7  | 80.1  | 85.0  | 93.0  | 96.6  | 96.9  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.4  |
| GE 2000  |      | 19.9                 | 60.7  | 80.1  | 85.1  | 93.2  | 97.2  | 97.4  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 99.1  |
| GE 1800  |      | 19.9                 | 60.7  | 80.4  | 85.4  | 93.4  | 97.5  | 97.8  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.5  |
| GE 1500  |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.2  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.9  |
| GE 1200  |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.2  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.9  |
|          |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 1000  |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.2  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.9  |
| GE 900   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.2  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.9  |
| GE 800   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.2  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.9  |
| GE 700   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.2  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.9  |
| GE 600   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.3  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 100.0 |
|          |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 500   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.3  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 100.0 |
| GE 400   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.3  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 100.0 |
| GE 300   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.3  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 100.0 |
| GE 200   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.3  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 100.0 |
| GE 100   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.3  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 100.0 |
|          |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 000   |      | 19.9                 | 60.7  | 80.6  | 85.7  | 93.8  | 97.9  | 98.3  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 774

I

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 14.2                 | 54.0     | 75.7     | 81.0     | 91.0     | 92.3     | 92.      | 92.8     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     |
| GE 4500               | 14.2                 | 54.0     | 75.7     | 81.0     | 91.0     | 92.3     | 92.5     | 92.8     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     |
| GE 4000               | 14.2                 | 54.0     | 76.1     | 81.4     | 91.4     | 92.8     | 92.9     | 93.2     | 93.3     | 93.3     | 93.3     | 93.3     | 93.3     | 93.3     | 93.3     | 93.3     |
| GE 3500               | 14.2                 | 54.0     | 76.2     | 81.5     | 91.5     | 92.9     | 93.1     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     |
| GE 3000               | 14.9                 | 54.7     | 77.4     | 82.8     | 92.9     | 94.6     | 94.8     | 95.0     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     |
| GE 2500               | 16.1                 | 55.9     | 79.1     | 84.6     | 95.4     | 97.6     | 97.7     | 98.0     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     |
| GE 2000               | 16.3                 | 56.1     | 79.5     | 85.0     | 96.1     | 98.4     | 98.6     | 98.8     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     |
| GE 1800               | 16.3                 | 56.1     | 79.6     | 85.2     | 96.3     | 98.8     | 99.0     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     |
| GE 1500               | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.0     | 99.2     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 1200               | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.0     | 99.2     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 1000               | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 900                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 800                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 700                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 600                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 500                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 400                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 300                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 200                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 100                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 000                | 16.3                 | 56.1     | 79.8     | 85.4     | 96.5     | 99.1     | 99.2     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1189

OPERATING LOCATION "A"  
USFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN

PERIOD OF RECORD: NOV 74 - OCT 89

LST TO UTC: - 1

MONTH: AUG HOURS: 12-14

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 23.9                 | 68.9  | 84.1  | 87.5  | 91.4  | 91.7  | 91.8  | 91.8  | 91.8  | 91.8  | 91.9  | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  |
| GE 4500  |      | 24.0                 | 68.9  | 84.2  | 87.6  | 91.5  | 91.8  | 91.9  | 91.9  | 91.9  | 91.9  | 92.0  | 92.2  | 92.2  | 92.2  | 92.2  | 92.2  |
| GE 4000  |      | 24.3                 | 69.3  | 84.8  | 88.2  | 92.1  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.6  | 92.8  | 92.8  | 92.8  | 92.8  | 92.8  |
| GE 3500  |      | 24.5                 | 69.5  | 85.0  | 88.4  | 92.4  | 92.7  | 92.8  | 92.8  | 92.8  | 92.8  | 92.9  | 93.1  | 93.1  | 93.1  | 93.1  | 93.1  |
| GE 3000  |      | 26.0                 | 71.0  | 86.9  | 90.2  | 94.2  | 94.6  | 94.7  | 94.7  | 94.7  | 94.7  | 94.8  | 94.9  | 94.9  | 94.9  | 94.9  | 94.9  |
| GE 2500  |      | 27.9                 | 72.9  | 89.8  | 93.4  | 97.9  | 98.3  | 98.4  | 98.4  | 98.4  | 98.4  | 98.5  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  |
| GE 2000  |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.5  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 1800  |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1500  |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1200  |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1000  |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 900   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 800   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 700   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 600   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 500   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 400   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 000   |      | 28.6                 | 73.6  | 90.9  | 94.5  | 99.0  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1127

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: 15-17

| CEILING  | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 36.4                 | 86.3  | 91.4  | 93.3  | 94.5  | 94.5  | 94.5  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  |
| GE 4500  | 36.4                 | 86.3  | 91.4  | 93.3  | 94.5  | 94.5  | 94.5  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  | 94.7  |
| GE 4000  | 36.5                 | 86.5  | 91.6  | 93.5  | 94.6  | 94.6  | 94.7  | 94.9  | 94.9  | 94.9  | 94.9  | 94.9  | 94.9  | 94.9  | 94.9  | 94.9  |
| GE 3500  | 36.8                 | 86.8  | 91.9  | 93.8  | 94.9  | 94.9  | 95.0  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  |
| GE 3000  | 38.7                 | 88.7  | 94.0  | 96.0  | 97.1  | 97.1  | 97.2  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  |
| GE 2500  | 40.3                 | 90.5  | 95.8  | 97.9  | 99.0  | 99.3  | 99.4  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| GE 2000  | 40.4                 | 90.6  | 96.1  | 98.2  | 99.3  | 99.6  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  |
| GE 1800  | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1500  | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1200  | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 1000  | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 900   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 800   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 700   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 600   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 500   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 400   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 000   | 40.4                 | 90.6  | 96.3  | 98.4  | 99.5  | 99.7  | 99.8  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1155

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: -AUG HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 43.2                 | 91.9     | 95.6     | 96.4     | 97.2     | 97.3     | 97.4     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     |
| GE 4500               | 43.2                 | 91.9     | 95.6     | 96.4     | 97.2     | 97.3     | 97.4     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     | 97.5     |
| GE 4000               | 43.3                 | 92.0     | 95.8     | 96.7     | 97.5     | 97.7     | 97.8     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9     |
| GE 3500               | 43.6                 | 92.2     | 96.1     | 96.9     | 97.8     | 97.9     | 98.0     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2     | 98.2     |
| GE 3000               | 43.8                 | 92.5     | 96.4     | 97.3     | 98.2     | 98.3     | 98.4     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5     |
| GE 2500               | 44.7                 | 93.5     | 97.5     | 98.4     | 99.3     | 99.5     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     |
| GE 2000               | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1800               | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1500               | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1200               | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1000               | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 900                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 800                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 700                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 44.8                 | 93.6     | 97.7     | 98.5     | 99.5     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 812

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 26.8                 | 71.6     | 84.7     | 88.0     | 92.7     | 93.6     | 93.8     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1     | 94.2     |
| GE 4500               | 26.8                 | 71.6     | 84.7     | 88.0     | 92.8     | 93.7     | 93.8     | 94.1     | 94.1     | 94.1     | 94.1     | 94.2     | 94.2     | 94.2     | 94.2     | 94.2     |
| GE 4000               | 27.0                 | 71.8     | 85.1     | 88.3     | 93.1     | 94.0     | 94.1     | 94.4     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5     | 94.6     |
| GE 3500               | 27.1                 | 71.9     | 85.2     | 88.5     | 93.3     | 94.2     | 94.3     | 94.6     | 94.7     | 94.7     | 94.7     | 94.7     | 94.7     | 94.7     | 94.7     | 94.8     |
| GE 3000               | 28.2                 | 73.0     | 86.6     | 89.9     | 94.8     | 95.8     | 95.9     | 96.2     | 96.3     | 96.3     | 96.3     | 96.3     | 96.3     | 96.3     | 96.3     | 96.4     |
| GE 2500               | 29.4                 | 74.4     | 88.4     | 91.9     | 97.0     | 98.3     | 98.4     | 98.8     | 98.8     | 98.8     | 98.8     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9     |
| GE 2000               | 29.7                 | 74.6     | 88.8     | 92.3     | 97.6     | 98.9     | 99.1     | 99.4     | 99.4     | 99.4     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     |
| GE 1800               | 29.7                 | 74.6     | 88.9     | 92.4     | 97.7     | 99.1     | 99.3     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     |
| GE 1500               | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.2     | 99.4     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 1200               | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.2     | 99.4     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 1000               | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 900                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 800                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 700                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 600                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 500                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 400                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 300                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 200                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 100                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 000                | 29.7                 | 74.6     | 89.0     | 92.5     | 97.8     | 99.3     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 5057

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN

PERIOD OF RECORD: NOV 74 - OCT 89

LST TO UTC: - 1

MONTH: SEP HOURS: 06-08

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 21.9                 | 55.0  | 76.2  | 82.2  | 91.3  | 93.7  | 93.7  | 94.4  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  |
| GE 4500  |      | 21.9                 | 55.0  | 76.2  | 82.2  | 91.3  | 93.7  | 93.7  | 94.4  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  |
| GE 4000  |      | 22.1                 | 55.2  | 76.7  | 82.7  | 91.8  | 94.1  | 94.1  | 94.9  | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  |
| GE 3500  |      | 22.3                 | 55.3  | 76.8  | 82.8  | 92.0  | 94.3  | 94.3  | 95.1  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  | 95.2  |
| GE 3000  |      | 22.3                 | 56.7  | 78.2  | 84.4  | 93.5  | 96.3  | 96.3  | 97.1  | 97.2  | 97.2  | 97.2  | 97.2  | 97.2  | 97.2  | 97.2  | 97.2  |
| GE 2500  |      | 23.6                 | 57.0  | 78.8  | 85.0  | 94.3  | 97.1  | 97.1  | 97.8  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  |
| GE 2000  |      | 24.3                 | 57.7  | 79.6  | 85.8  | 95.2  | 98.1  | 98.1  | 98.9  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  |
| GE 1800  |      | 24.3                 | 57.7  | 79.6  | 85.8  | 95.2  | 98.1  | 98.1  | 98.9  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  | 99.2  |
| GE 1500  |      | 24.3                 | 57.7  | 79.6  | 85.8  | 95.2  | 98.3  | 98.3  | 99.1  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  |
| GE 1200  |      | 24.3                 | 57.7  | 79.6  | 85.9  | 95.4  | 98.5  | 98.5  | 99.2  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 1000  |      | 24.3                 | 57.7  | 79.6  | 85.9  | 95.4  | 98.5  | 98.5  | 99.2  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 900   |      | 24.3                 | 57.7  | 79.6  | 85.9  | 95.4  | 98.5  | 98.5  | 99.2  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 800   |      | 24.3                 | 57.7  | 79.6  | 85.9  | 95.4  | 98.5  | 98.5  | 99.4  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  |
| GE 700   |      | 24.3                 | 57.7  | 79.6  | 85.9  | 95.4  | 98.5  | 98.5  | 99.4  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  |
| GE 600   |      | 24.3                 | 57.7  | 79.6  | 85.9  | 95.4  | 98.5  | 98.5  | 99.4  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  |
| GE 500   |      | 24.3                 | 57.7  | 79.6  | 85.9  | 95.4  | 98.5  | 98.5  | 99.4  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  |
| GE 400   |      | 24.3                 | 57.7  | 79.6  | 85.9  | 95.4  | 98.5  | 98.5  | 99.4  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  |
| GE 300   |      | 24.3                 | 57.8  | 79.8  | 86.1  | 95.5  | 98.6  | 98.6  | 99.5  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   |      | 24.3                 | 57.8  | 79.8  | 86.1  | 95.5  | 98.6  | 98.6  | 99.5  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   |      | 24.3                 | 57.8  | 79.8  | 86.1  | 95.5  | 98.6  | 98.6  | 99.5  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 000   |      | 24.3                 | 57.8  | 79.8  | 86.1  | 95.5  | 98.6  | 98.6  | 99.5  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 647

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 15.6                 | 42.8     | 72.7     | 80.0     | 90.5     | 91.7     | 91.8     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9     | 92.0     |
| GE 4500               | 15.6                 | 42.8     | 72.7     | 80.0     | 90.5     | 91.7     | 91.8     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9     | 91.9     | 92.0     |
| GE 4000               | 15.9                 | 43.2     | 73.1     | 80.5     | 91.1     | 92.2     | 92.3     | 92.5     | 92.5     | 92.5     | 92.5     | 92.5     | 92.5     | 92.5     | 92.5     | 92.7     |
| GE 3500               | 16.2                 | 43.4     | 73.4     | 80.8     | 91.4     | 92.5     | 92.6     | 92.8     | 92.8     | 92.8     | 92.8     | 92.8     | 92.8     | 92.8     | 92.8     | 93.0     |
| GE 3000               | 17.7                 | 44.9     | 75.3     | 82.7     | 93.6     | 94.9     | 94.9     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.4     |
| GE 2500               | 18.6                 | 46.0     | 77.0     | 84.5     | 95.7     | 97.2     | 97.3     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     | 97.7     | 97.7     | 97.9     |
| GE 2000               | 19.0                 | 46.3     | 77.5     | 85.0     | 96.6     | 98.3     | 98.4     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.9     | 98.9     | 99.2     |
| GE 1800               | 19.1                 | 46.4     | 77.9     | 85.4     | 97.0     | 98.7     | 98.8     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.3     | 99.4     | 99.4     | 99.7     |
| GE 1500               | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.9     |
| GE 1200               | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.9     |
| GE 1000               | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.9     |
| GE 900                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.9     |
| GE 800                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |
| GE 700                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |
| GE 600                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |
| GE 500                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |
| GE 400                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |
| GE 300                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |
| GE 200                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |
| GE 100                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |
| GE 000                | 19.2                 | 46.5     | 78.0     | 85.5     | 97.1     | 98.8     | 98.9     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.7     | 99.7     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1068

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 27.0                 | 60.7     | 81.8     | 85.7     | 89.3     | 89.4     | 89.4     | 89.5     | 89.5     | 89.5     | 89.5     | 89.5     | 89.5     | 89.5     | 89.5     | 89.6     |
| GE 4500               | 27.0                 | 60.7     | 81.8     | 85.7     | 89.3     | 89.4     | 89.4     | 89.5     | 89.5     | 89.5     | 89.5     | 89.5     | 89.5     | 89.5     | 89.5     | 89.6     |
| GE 4000               | 27.8                 | 61.7     | 83.1     | 87.0     | 90.6     | 90.7     | 90.7     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     | 90.8     | 90.9     |
| GE 3500               | 28.0                 | 61.9     | 83.4     | 87.2     | 90.8     | 90.9     | 90.9     | 91.0     | 91.0     | 91.0     | 91.0     | 91.0     | 91.0     | 91.0     | 91.0     | 91.1     |
| GE 3000               | 29.6                 | 63.5     | 85.6     | 89.4     | 93.2     | 93.4     | 93.4     | 93.5     | 93.5     | 93.5     | 93.5     | 93.5     | 93.5     | 93.5     | 93.5     | 93.6     |
| GE 2500               | 33.6                 | 67.6     | 90.3     | 94.1     | 98.0     | 98.2     | 98.2     | 98.4     | 98.4     | 98.4     | 98.4     | 98.4     | 98.4     | 98.4     | 98.4     | 98.5     |
| GE 2000               | 34.2                 | 68.2     | 91.0     | 94.9     | 98.8     | 99.0     | 99.0     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.2     | 99.3     |
| GE 1800               | 34.3                 | 68.3     | 91.2     | 95.1     | 99.1     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.9     |
| GE 1500               | 34.3                 | 68.3     | 91.2     | 95.1     | 99.1     | 99.5     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.9     |
| GE 1200               | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 1000               | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 900                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 800                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 700                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 600                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 500                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 400                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 300                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 200                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 100                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |
| GE 000                | 34.4                 | 68.4     | 91.3     | 95.2     | 99.2     | 99.6     | 99.6     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 997

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 46.8                 | 83.2     | 90.7     | 91.4     | 91.6     | 91.6     | 91.6     | 91.6     | 91.6     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     |
| GE 4500               | 46.8                 | 83.2     | 90.7     | 91.4     | 91.6     | 91.6     | 91.6     | 91.6     | 91.6     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     |
| GE 4000               | 47.2                 | 83.7     | 91.3     | 92.0     | 92.2     | 92.2     | 92.2     | 92.2     | 92.2     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     | 92.3     |
| GE 3500               | 47.7                 | 84.2     | 91.9     | 92.7     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9     | 93.0     | 93.0     | 93.0     | 93.0     | 93.0     | 93.0     | 93.0     |
| GE 3000               | 50.6                 | 87.3     | 95.2     | 96.0     | 96.2     | 96.2     | 96.2     | 96.2     | 96.2     | 96.3     | 96.3     | 96.3     | 96.3     | 96.3     | 96.3     | 96.3     |
| GE 2500               | 53.6                 | 90.3     | 98.2     | 99.0     | 99.4     | 99.4     | 99.4     | 99.4     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 2000               | 53.8                 | 90.5     | 98.4     | 99.2     | 99.6     | 99.7     | 99.7     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 1800               | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1500               | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1200               | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 1000               | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 900                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 800                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 700                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 53.9                 | 90.6     | 98.5     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1052

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: 18-20

| CEILING  |      | VISIBILITY IN METERS |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | GE   | GE                   | GE   | GE   | GE   | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GE    |
| FEET     | 112  | 90                   | 80   | 60   | 48   | 40    | 32    | 24    | 20    | 16    | 12    | 10    | 08    | 06    | 04    | 00    |       |
| NO CEIL  |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 58.4 | 91.5                 | 96.3 | 96.9 | 97.1 | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  |
| GE 4500  | 58.4 | 91.5                 | 96.3 | 96.9 | 97.1 | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  |
| GE 4000  | 58.7 | 92.0                 | 96.7 | 97.3 | 97.5 | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  |
| GE 3500  | 58.9 | 92.2                 | 97.0 | 97.5 | 97.8 | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  |
| GE 3000  | 59.9 | 93.2                 | 98.0 | 98.5 | 98.8 | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  |
| GE 2500  | 60.7 | 94.0                 | 98.9 | 99.5 | 99.7 | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 2000  | 60.7 | 94.0                 | 98.9 | 99.5 | 99.7 | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 1800  | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 1500  | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 1200  | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 1000  | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 900   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 800   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 700   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 600   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 500   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 400   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 300   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 000   | 60.7 | 94.0                 | 99.0 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 733

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP HOURS: ALL

| CEILING  | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 33.3                 | 65.9  | 83.3  | 87.0  | 91.7  | 92.3  | 92.4  | 92.5  | 92.5  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  |
| GE 4500  | 33.3                 | 65.9  | 83.3  | 87.0  | 91.7  | 92.3  | 92.4  | 92.5  | 92.5  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  | 92.6  |
| GE 4000  | 33.7                 | 66.4  | 83.9  | 87.7  | 92.4  | 93.0  | 93.0  | 93.2  | 93.2  | 93.3  | 93.3  | 93.3  | 93.3  | 93.3  | 93.3  | 93.3  |
| GE 3500  | 34.0                 | 66.7  | 84.3  | 88.0  | 92.7  | 93.4  | 93.4  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.6  | 93.7  |
| GE 3000  | 35.7                 | 68.5  | 86.3  | 90.1  | 95.0  | 95.7  | 95.7  | 95.9  | 95.9  | 96.0  | 96.0  | 96.0  | 96.0  | 96.0  | 96.0  | 96.0  |
| GE 2500  | 37.7                 | 70.6  | 88.7  | 92.5  | 97.5  | 98.3  | 98.4  | 98.6  | 98.6  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.8  |
| GE 2000  | 38.1                 | 70.9  | 89.2  | 93.0  | 98.1  | 99.0  | 99.0  | 99.3  | 99.3  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.5  |
| GE 1800  | 38.1                 | 71.0  | 89.3  | 93.2  | 98.3  | 99.2  | 99.3  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.7  | 99.7  | 99.8  |
| GE 1500  | 38.2                 | 71.0  | 89.4  | 93.2  | 98.3  | 99.3  | 99.3  | 99.6  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.8  | 99.8  | 99.9  |
| GE 1200  | 38.2                 | 71.0  | 89.4  | 93.2  | 98.4  | 99.3  | 99.4  | 99.6  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  |
| GE 1000  | 38.2                 | 71.0  | 89.4  | 93.2  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  |
| GE 900   | 38.2                 | 71.0  | 89.4  | 93.2  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  |
| GE 800   | 38.2                 | 71.0  | 89.4  | 93.2  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  | 99.9  | 100.0 |
| GE 700   | 38.2                 | 71.0  | 89.4  | 93.2  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  | 99.9  | 100.0 |
| GE 600   | 38.2                 | 71.0  | 89.4  | 93.2  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  | 99.9  | 100.0 |
| GE 500   | 38.2                 | 71.0  | 89.4  | 93.2  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  | 99.9  | 100.0 |
| GE 400   | 38.2                 | 71.0  | 89.4  | 93.2  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  | 99.9  | 99.9  | 100.0 |
| G 300    | 38.2                 | 71.0  | 89.4  | 93.3  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 200   | 38.2                 | 71.0  | 89.4  | 93.3  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 100   | 38.2                 | 71.0  | 89.4  | 93.3  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |
| GE 000   | 38.2                 | 71.0  | 89.4  | 93.3  | 98.4  | 99.4  | 99.4  | 99.7  | 99.8  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 4497

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 06-08

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 30.5                 | 64.2     | 79.2     | 81.7     | 86.9     | 89.0     | 89.2     | 89.8     | 90.2     | 90.2     | 90.3     | 90.3     | 90.3     | 90.5     | 90.5     | 91.7     |
| GE 4500               | 30.5                 | 64.2     | 79.2     | 81.7     | 86.9     | 89.0     | 89.2     | 89.8     | 90.2     | 90.2     | 90.3     | 90.3     | 90.3     | 90.5     | 90.5     | 91.7     |
| GE 4000               | 30.5                 | 64.2     | 79.2     | 81.7     | 86.9     | 89.0     | 89.2     | 89.8     | 90.2     | 90.2     | 90.3     | 90.3     | 90.3     | 90.5     | 90.5     | 91.7     |
| GE 3500               | 30.8                 | 64.6     | 79.5     | 82.0     | 87.3     | 89.3     | 89.5     | 90.2     | 90.5     | 90.5     | 90.7     | 90.7     | 90.7     | 90.8     | 90.8     | 92.0     |
| GE 3000               | 31.7                 | 65.4     | 80.5     | 83.1     | 88.5     | 90.5     | 90.7     | 91.4     | 91.7     | 91.7     | 91.9     | 91.9     | 91.9     | 92.0     | 92.0     | 93.2     |
| GE 2500               | 32.9                 | 66.9     | 82.5     | 85.8     | 91.7     | 93.7     | 93.9     | 94.9     | 95.4     | 95.4     | 95.6     | 95.8     | 95.8     | 95.9     | 95.9     | 97.1     |
| GE 2000               | 33.2                 | 67.3     | 83.4     | 86.6     | 92.9     | 95.1     | 95.3     | 96.3     | 96.8     | 96.8     | 96.9     | 97.1     | 97.1     | 97.3     | 97.3     | 98.5     |
| GE 1800               | 33.6                 | 67.6     | 84.1     | 87.3     | 93.6     | 95.9     | 96.1     | 97.1     | 97.6     | 97.6     | 97.8     | 98.0     | 98.0     | 98.1     | 98.1     | 99.3     |
| GE 1500               | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.3     | 98.3     | 98.5     | 98.5     | 99.7     |
| GE 1200               | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.3     | 98.3     | 98.5     | 98.5     | 99.7     |
| GE 1000               | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 99.8     |
| GE 900                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 99.8     |
| GE 800                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 99.8     |
| GE 700                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 99.8     |
| GE 600                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 99.8     |
| GE 500                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 99.8     |
| GE 400                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 99.8     |
| GE 300                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 100.0    |
| GE 200                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 100.0    |
| GE 100                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 100.0    |
| GE 000                | 33.6                 | 67.6     | 84.2     | 87.5     | 93.7     | 96.1     | 96.3     | 97.3     | 98.0     | 98.0     | 98.1     | 98.5     | 98.5     | 98.6     | 98.6     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 590

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 09-11

| CEILING  | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 21.0                 | 50.3  | 72.2  | 75.9  | 84.0  | 85.0  | 85.2  | 86.4  | 86.5  | 86.5  | 86.5  | 86.5  | 86.6  | 86.7  | 86.7  | 87.2  |
| GE 4500  | 21.0                 | 50.3  | 72.2  | 75.9  | 84.0  | 85.0  | 85.2  | 86.4  | 86.5  | 86.5  | 86.5  | 86.5  | 86.6  | 86.7  | 86.7  | 87.2  |
| GE 4000  | 21.3                 | 50.8  | 72.6  | 76.4  | 84.4  | 85.4  | 85.7  | 86.8  | 86.9  | 86.9  | 86.9  | 86.9  | 87.0  | 87.1  | 87.1  | 87.6  |
| GE 3500  | 21.5                 | 50.9  | 72.8  | 76.5  | 84.6  | 85.6  | 85.9  | 87.0  | 87.1  | 87.1  | 87.1  | 87.1  | 87.2  | 87.3  | 87.3  | 87.8  |
| GE 3000  | 22.7                 | 52.2  | 74.6  | 78.4  | 86.9  | 87.9  | 88.2  | 89.3  | 89.4  | 89.4  | 89.4  | 89.5  | 89.6  | 89.7  | 89.7  | 90.2  |
| GE 2500  | 24.2                 | 54.0  | 77.5  | 81.7  | 91.0  | 92.2  | 92.5  | 93.9  | 94.0  | 94.0  | 94.0  | 94.0  | 94.1  | 94.2  | 94.2  | 94.8  |
| GE 2000  | 25.2                 | 55.0  | 78.8  | 83.1  | 92.9  | 94.4  | 94.9  | 96.4  | 96.7  | 96.7  | 96.7  | 96.8  | 96.9  | 97.0  | 97.0  | 97.5  |
| GE 1800  | 25.5                 | 55.3  | 79.5  | 83.9  | 93.8  | 95.3  | 95.8  | 97.4  | 97.7  | 97.7  | 97.8  | 97.9  | 98.0  | 98.0  | 98.0  | 98.6  |
| GE 1500  | 25.5                 | 55.3  | 79.5  | 84.0  | 93.9  | 95.6  | 96.1  | 98.0  | 98.4  | 98.5  | 98.6  | 98.7  | 98.8  | 98.8  | 98.8  | 99.4  |
| GE 1200  | 25.5                 | 55.3  | 79.5  | 84.0  | 94.0  | 95.6  | 96.2  | 98.1  | 98.5  | 98.6  | 98.7  | 98.8  | 98.8  | 98.9  | 98.9  | 99.5  |
| GE 1000  | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.3  | 99.8  |
| GE 900   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.3  | 99.8  |
| GE 800   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 99.9  |
| GE 700   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 99.9  |
| GE 600   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 99.9  |
| GE 500   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 100.0 |
| GE 400   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 100.0 |
| GE 300   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 100.0 |
| GE 200   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 100.0 |
| GE 100   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 100.0 |
| GE 000   | 25.5                 | 55.3  | 79.5  | 84.1  | 94.0  | 95.7  | 96.3  | 98.3  | 98.7  | 98.8  | 98.9  | 99.1  | 99.2  | 99.3  | 99.4  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1125

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 12-14

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 2000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 34.0                 | 65.9     | 76.4     | 78.9     | 81.8     | 82.5     | 82.5     | 82.6     | 82.6     | 82.6     | 82.6     | 82.7     | 82.7     | 82.7     | 82.7     | 82.7     |
| GE 4500               | 34.0                 | 65.9     | 76.4     | 78.9     | 81.8     | 82.5     | 82.5     | 82.6     | 82.6     | 82.6     | 82.6     | 82.7     | 82.7     | 82.7     | 82.7     | 82.7     |
| GE 4000               | 34.5                 | 66.4     | 77.1     | 79.6     | 82.5     | 83.2     | 83.2     | 83.3     | 83.3     | 83.3     | 83.3     | 83.4     | 83.4     | 83.4     | 83.4     | 83.4     |
| GE 3500               | 34.6                 | 66.6     | 77.2     | 79.8     | 82.6     | 83.3     | 83.3     | 83.5     | 83.5     | 83.5     | 83.5     | 83.6     | 83.6     | 83.6     | 83.6     | 83.6     |
| GE 3000               | 37.9                 | 70.0     | 81.0     | 83.7     | 86.7     | 87.4     | 87.4     | 87.7     | 87.7     | 87.7     | 87.7     | 87.8     | 87.8     | 87.8     | 87.8     | 87.8     |
| GE 2500               | 41.9                 | 74.1     | 85.9     | 88.7     | 92.2     | 93.0     | 93.0     | 93.3     | 93.3     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     |
| GE 2000               | 44.3                 | 76.6     | 88.9     | 91.7     | 95.7     | 97.0     | 97.0     | 97.4     | 97.8     | 97.9     | 97.9     | 98.0     | 98.0     | 98.0     | 98.0     | 98.0     |
| GE 1800               | 44.5                 | 76.8     | 89.3     | 92.6     | 96.6     | 98.1     | 98.1     | 98.5     | 98.8     | 98.9     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     |
| GE 1500               | 44.5                 | 76.8     | 89.4     | 92.6     | 96.9     | 98.4     | 98.6     | 99.0     | 99.4     | 99.6     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 1200               | 44.5                 | 76.8     | 89.4     | 92.6     | 97.1     | 98.6     | 98.8     | 99.2     | 99.6     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 1000               | 44.5                 | 76.8     | 89.4     | 92.6     | 97.1     | 98.6     | 98.8     | 99.2     | 99.6     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 900                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.1     | 98.6     | 98.8     | 99.2     | 99.6     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 800                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.1     | 98.6     | 98.8     | 99.2     | 99.6     | 99.7     | 99.7     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 700                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.2     | 98.7     | 98.8     | 99.3     | 99.6     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.2     | 98.7     | 98.8     | 99.3     | 99.6     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.2     | 98.7     | 98.8     | 99.3     | 99.6     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.2     | 98.7     | 98.8     | 99.3     | 99.6     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.2     | 98.7     | 98.8     | 99.3     | 99.6     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.2     | 98.7     | 98.8     | 99.3     | 99.6     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.2     | 98.7     | 98.8     | 99.3     | 99.6     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 44.5                 | 76.8     | 89.4     | 92.6     | 97.2     | 98.7     | 98.8     | 99.3     | 99.6     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1129

I

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 49.0                 | 75.6     | 79.6     | 80.3     | 81.3     | 81.5     | 81.5     | 81.5     | 81.5     | 81.6     | 81.6     | 81.6     | 81.6     | 81.6     | 81.6     | 81.6     |
| GE 4500               | 49.0                 | 75.6     | 79.6     | 80.3     | 81.3     | 81.5     | 81.5     | 81.5     | 81.5     | 81.6     | 81.6     | 81.6     | 81.6     | 81.6     | 81.6     | 81.6     |
| GE 4000               | 49.3                 | 76.0     | 80.0     | 80.7     | 81.7     | 81.9     | 81.9     | 81.9     | 82.0     | 82.1     | 82.1     | 82.1     | 82.1     | 82.1     | 82.1     | 82.1     |
| GE 3500               | 49.9                 | 76.5     | 80.6     | 81.3     | 82.3     | 82.5     | 82.5     | 82.5     | 82.6     | 82.7     | 82.7     | 82.7     | 82.7     | 82.7     | 82.7     | 82.7     |
| GE 3000               | 52.8                 | 79.4     | 83.7     | 84.4     | 86.1     | 86.3     | 86.3     | 86.3     | 86.3     | 86.4     | 86.4     | 86.4     | 86.4     | 86.4     | 86.4     | 86.4     |
| GE 2500               | 59.5                 | 86.3     | 91.3     | 92.0     | 94.1     | 94.4     | 94.4     | 94.4     | 94.5     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     |
| GE 2000               | 61.9                 | 88.9     | 94.1     | 95.0     | 97.5     | 97.8     | 97.8     | 97.8     | 98.0     | 98.1     | 98.1     | 98.1     | 98.1     | 98.1     | 98.2     | 98.2     |
| GE 1800               | 62.1                 | 89.1     | 94.3     | 95.3     | 98.1     | 98.5     | 98.5     | 98.7     | 99.0     | 99.1     | 99.1     | 99.1     | 99.1     | 99.1     | 99.2     | 99.2     |
| GE 1500               | 62.2                 | 89.2     | 94.4     | 95.4     | 98.3     | 98.7     | 98.8     | 98.9     | 99.3     | 99.4     | 99.4     | 99.4     | 99.4     | 99.4     | 99.5     | 99.5     |
| GE 1200               | 62.2                 | 89.4     | 94.7     | 95.7     | 98.6     | 98.9     | 99.0     | 99.2     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 1000               | 62.2                 | 89.4     | 94.7     | 95.7     | 98.6     | 98.9     | 99.0     | 99.2     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 900                | 62.2                 | 89.4     | 94.7     | 95.7     | 98.6     | 98.9     | 99.0     | 99.2     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.8     | 99.8     |
| GE 800                | 62.3                 | 89.5     | 94.8     | 95.8     | 98.7     | 99.0     | 99.1     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     |
| GE 700                | 62.3                 | 89.5     | 94.8     | 95.8     | 98.7     | 99.0     | 99.1     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     |
| GE 600                | 62.3                 | 89.5     | 94.8     | 95.8     | 98.7     | 99.0     | 99.1     | 99.3     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.9     | 99.9     |
| GE 500                | 62.4                 | 89.6     | 94.9     | 95.9     | 98.8     | 99.1     | 99.2     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 400                | 62.4                 | 89.6     | 94.9     | 95.9     | 98.8     | 99.1     | 99.2     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 300                | 62.4                 | 89.6     | 94.9     | 95.9     | 98.8     | 99.1     | 99.2     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 200                | 62.4                 | 89.6     | 94.9     | 95.9     | 98.8     | 99.1     | 99.2     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 100                | 62.4                 | 89.6     | 94.9     | 95.9     | 98.8     | 99.1     | 99.2     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |
| GE 000                | 62.4                 | 89.6     | 94.9     | 95.9     | 98.8     | 99.1     | 99.2     | 99.4     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1040

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 49.2                 | 79.6     | 82.7     | 83.6     | 84.5     | 84.9     | 84.9     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     |
| GE 4500               | 49.2                 | 79.6     | 82.7     | 83.6     | 84.5     | 84.9     | 84.9     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     | 85.2     |
| GE 4000               | 49.9                 | 80.4     | 83.6     | 84.4     | 85.5     | 85.9     | 85.9     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     |
| GE 3500               | 50.7                 | 81.2     | 84.4     | 85.2     | 86.3     | 86.7     | 86.7     | 87.0     | 87.0     | 87.0     | 87.0     | 87.0     | 87.0     | 87.0     | 87.0     | 87.0     |
| GE 3000               | 53.7                 | 84.2     | 87.9     | 88.9     | 90.3     | 90.8     | 90.8     | 91.1     | 91.1     | 91.1     | 91.1     | 91.1     | 91.1     | 91.1     | 91.1     | 91.1     |
| GE 2500               | 57.1                 | 87.8     | 91.9     | 93.2     | 94.7     | 95.2     | 95.2     | 95.5     | 95.5     | 95.5     | 95.5     | 95.5     | 95.5     | 95.5     | 95.5     | 95.5     |
| GE 2000               | 59.3                 | 90.0     | 94.8     | 96.2     | 97.7     | 98.4     | 98.4     | 98.6     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     |
| GE 1800               | 59.5                 | 90.1     | 95.1     | 96.6     | 98.2     | 98.9     | 98.9     | 99.2     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 1500               | 59.5                 | 90.1     | 95.2     | 96.7     | 98.4     | 99.0     | 99.0     | 99.3     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     |
| GE 1200               | 59.5                 | 90.1     | 95.2     | 96.7     | 98.5     | 99.2     | 99.2     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 1000               | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 900                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 800                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 700                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 59.5                 | 90.1     | 95.2     | 96.7     | 98.6     | 99.3     | 99.3     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 730

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT HOURS: ALL

| CEILING  | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 36.2                 | 66.2  | 77.4  | 79.6  | 83.3  | 84.1  | 84.2  | 84.6  | 84.7  | 84.7  | 84.7  | 84.8  | 84.8  | 84.8  | 84.8  | 85.1  |
| GE 4500  | 36.2                 | 66.2  | 77.4  | 79.6  | 83.3  | 84.1  | 84.2  | 84.6  | 84.7  | 84.7  | 84.7  | 84.8  | 84.8  | 84.8  | 84.8  | 85.1  |
| GE 4000  | 36.5                 | 66.7  | 77.9  | 80.1  | 83.8  | 84.6  | 84.7  | 85.2  | 85.2  | 85.3  | 85.3  | 85.3  | 85.3  | 85.4  | 85.4  | 85.7  |
| GE 3500  | 36.9                 | 67.1  | 78.3  | 80.5  | 84.2  | 85.0  | 85.1  | 85.5  | 85.6  | 85.7  | 85.7  | 85.7  | 85.7  | 85.8  | 85.8  | 86.0  |
| GE 3000  | 39.3                 | 69.4  | 81.1  | 83.3  | 87.4  | 88.2  | 88.3  | 88.8  | 88.9  | 88.9  | 88.9  | 88.9  | 89.0  | 89.0  | 89.0  | 89.3  |
| GE 2500  | 42.8                 | 73.2  | 85.6  | 88.1  | 92.7  | 93.6  | 93.7  | 94.2  | 94.3  | 94.4  | 94.4  | 94.5  | 94.5  | 94.5  | 94.5  | 94.8  |
| GE 2000  | 44.6                 | 75.1  | 87.9  | 90.4  | 95.4  | 96.5  | 96.7  | 97.3  | 97.6  | 97.7  | 97.7  | 97.7  | 97.8  | 97.8  | 97.9  | 98.1  |
| GE 1800  | 44.8                 | 75.3  | 88.3  | 91.0  | 96.1  | 97.3  | 97.5  | 98.2  | 98.6  | 98.6  | 98.7  | 98.7  | 98.7  | 98.8  | 98.8  | 99.1  |
| GE 1500  | 44.8                 | 75.3  | 88.4  | 91.1  | 96.3  | 97.6  | 97.8  | 98.6  | 99.0  | 99.1  | 99.1  | 99.2  | 99.2  | 99.3  | 99.3  | 99.6  |
| GE 1200  | 44.8                 | 75.3  | 88.4  | 91.2  | 96.4  | 97.7  | 97.9  | 98.7  | 99.2  | 99.2  | 99.3  | 99.4  | 99.4  | 99.4  | 99.5  | 99.7  |
| GE 1000  | 44.8                 | 75.3  | 88.4  | 91.2  | 96.5  | 97.8  | 98.0  | 98.8  | 99.2  | 99.3  | 99.4  | 99.5  | 99.5  | 99.6  | 99.6  | 99.9  |
| GE 900   | 44.8                 | 75.3  | 88.4  | 91.2  | 96.5  | 97.8  | 98.0  | 98.8  | 99.2  | 99.3  | 99.4  | 99.5  | 99.5  | 99.6  | 99.6  | 99.9  |
| GE 800   | 44.8                 | 75.4  | 88.4  | 91.2  | 96.5  | 97.8  | 98.0  | 98.8  | 99.2  | 99.3  | 99.4  | 99.5  | 99.5  | 99.6  | 99.6  | 99.9  |
| GE 700   | 44.8                 | 75.4  | 88.4  | 91.2  | 96.5  | 97.8  | 98.0  | 98.9  | 99.3  | 99.3  | 99.4  | 99.5  | 99.6  | 99.6  | 99.7  | 99.9  |
| GE 600   | 44.8                 | 75.4  | 88.4  | 91.2  | 96.5  | 97.8  | 98.0  | 98.9  | 99.3  | 99.3  | 99.4  | 99.5  | 99.6  | 99.6  | 99.7  | 99.9  |
| GE 500   | 44.9                 | 75.4  | 88.5  | 91.3  | 96.6  | 97.8  | 98.0  | 98.9  | 99.3  | 99.4  | 99.4  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 |
| GE 400   | 44.9                 | 75.4  | 88.5  | 91.3  | 96.6  | 97.8  | 98.0  | 98.9  | 99.3  | 99.4  | 99.4  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 |
| GE 300   | 44.9                 | 75.4  | 88.5  | 91.3  | 96.6  | 97.8  | 98.0  | 98.9  | 99.3  | 99.4  | 99.4  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 |
| GE 200   | 44.9                 | 75.4  | 88.5  | 91.3  | 96.6  | 97.8  | 98.0  | 98.9  | 99.3  | 99.4  | 99.4  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 |
| GE 100   | 44.9                 | 75.4  | 88.5  | 91.3  | 96.6  | 97.8  | 98.0  | 98.9  | 99.3  | 99.4  | 99.4  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 |
| GE 000   | 44.9                 | 75.4  | 88.5  | 91.3  | 96.6  | 97.8  | 98.0  | 98.9  | 99.3  | 99.4  | 99.4  | 99.6  | 99.6  | 99.6  | 99.7  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 4614

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 06-08

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE       | 5000 | 24.1                 | 55.3  | 70.6  | 73.9  | 78.1  | 77.6  | 79.7  | 82.3  | 83.2  | 83.2  | 83.6  | 84.3  | 84.3  | 84.3  | 84.7  | 85.0  |
| GE       | 4500 | 24.1                 | 55.3  | 70.6  | 73.9  | 78.1  | 79.6  | 79.7  | 82.3  | 83.2  | 83.2  | 83.6  | 84.3  | 84.3  | 84.3  | 84.7  | 85.0  |
| GE       | 4000 | 24.3                 | 55.5  | 70.8  | 74.1  | 78.3  | 79.7  | 79.9  | 82.5  | 83.4  | 83.4  | 83.8  | 84.5  | 84.5  | 84.5  | 84.9  | 85.2  |
| GE       | 3500 | 24.6                 | 55.8  | 71.2  | 74.5  | 78.6  | 80.1  | 80.3  | 82.8  | 83.8  | 83.8  | 84.1  | 84.9  | 84.9  | 84.9  | 85.2  | 85.6  |
| GE       | 3000 | 25.5                 | 56.8  | 72.3  | 75.5  | 79.9  | 81.6  | 81.8  | 84.3  | 85.2  | 85.2  | 85.6  | 86.3  | 86.3  | 86.3  | 86.7  | 87.0  |
| GE       | 2500 | 27.9                 | 59.7  | 76.3  | 79.7  | 85.0  | 86.7  | 86.9  | 89.6  | 90.5  | 90.5  | 90.9  | 91.6  | 91.6  | 91.6  | 92.0  | 92.3  |
| GE       | 2000 | 28.8                 | 60.8  | 78.1  | 81.9  | 88.5  | 91.1  | 91.2  | 94.0  | 94.9  | 94.9  | 95.3  | 96.0  | 96.0  | 96.0  | 96.4  | 96.7  |
| GE       | 1800 | 29.0                 | 60.9  | 78.5  | 82.5  | 89.1  | 91.8  | 92.2  | 94.9  | 95.8  | 95.8  | 96.2  | 96.9  | 96.9  | 96.9  | 97.3  | 97.6  |
| GE       | 1500 | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.2  | 93.6  | 96.4  | 97.3  | 97.3  | 97.6  | 98.4  | 98.4  | 98.4  | 98.7  | 99.1  |
| GE       | 1200 | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.5  | 98.5  | 98.5  | 98.9  | 99.3  |
| GE       | 1000 | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.3  | 99.6  |
| GE       | 900  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.3  | 99.6  |
| GE       | 800  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.3  | 99.6  |
| GE       | 700  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.3  | 99.6  |
| GE       | 600  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.3  | 99.6  |
| GE       | 500  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.3  | 99.6  |
| GE       | 400  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.5  | 99.8  |
| GE       | 300  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.5  | 99.8  |
| GE       | 200  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.5  | 99.8  |
| GE       | 100  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.5  | 99.8  |
| GE       | 000  | 29.2                 | 61.1  | 79.7  | 83.8  | 90.5  | 93.4  | 93.8  | 96.5  | 97.4  | 97.4  | 97.8  | 98.7  | 98.7  | 98.7  | 99.5  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 548

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HGURS: 09-11

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 18.4                 | 41.1     | 60.4     | 65.6     | 76.3     | 78.8     | 79.3     | 82.0     | 82.8     | 82.9     | 83.2     | 83.5     | 83.6     | 83.6     | 84.1     | 85.2     |
| GE 4500               | 18.4                 | 41.1     | 60.4     | 65.6     | 76.3     | 78.8     | 79.3     | 82.0     | 82.8     | 82.9     | 83.2     | 83.5     | 83.6     | 83.6     | 84.1     | 85.2     |
| GE 4000               | 18.9                 | 41.7     | 61.0     | 66.2     | 76.9     | 79.4     | 79.9     | 82.6     | 83.5     | 83.5     | 83.8     | 84.2     | 84.3     | 84.3     | 84.7     | 85.8     |
| GE 3500               | 19.5                 | 42.3     | 61.7     | 66.9     | 77.8     | 80.4     | 80.9     | 83.7     | 84.5     | 84.6     | 84.9     | 85.3     | 85.4     | 85.4     | 85.8     | 86.9     |
| GE 3000               | 20.3                 | 43.1     | 63.1     | 68.4     | 79.4     | 82.0     | 82.5     | 85.4     | 86.2     | 86.3     | 86.5     | 86.9     | 87.0     | 87.0     | 87.4     | 88.5     |
| GE 2500               | 22.9                 | 45.8     | 66.5     | 71.9     | 83.1     | 85.7     | 86.3     | 89.1     | 89.9     | 90.0     | 90.3     | 90.8     | 90.9     | 90.9     | 91.3     | 92.4     |
| GE 2000               | 24.0                 | 47.0     | 68.7     | 74.4     | 85.6     | 88.3     | 88.9     | 92.1     | 93.0     | 93.1     | 93.6     | 94.0     | 94.1     | 94.1     | 94.6     | 95.7     |
| GE 1800               | 24.1                 | 47.1     | 69.1     | 74.8     | 86.2     | 89.0     | 89.8     | 93.2     | 94.1     | 94.2     | 94.8     | 95.3     | 95.4     | 95.4     | 95.8     | 96.9     |
| GE 1500               | 24.1                 | 47.2     | 69.4     | 75.2     | 86.7     | 89.8     | 90.6     | 94.4     | 95.3     | 95.4     | 96.2     | 96.9     | 97.0     | 97.0     | 97.6     | 98.6     |
| GE 1200               | 24.1                 | 47.2     | 69.4     | 75.2     | 86.7     | 90.0     | 90.8     | 94.6     | 95.5     | 95.6     | 96.4     | 97.1     | 97.2     | 97.2     | 97.7     | 98.8     |
| GE 1000               | 24.1                 | 47.2     | 69.4     | 75.3     | 86.8     | 90.1     | 90.9     | 94.7     | 95.6     | 95.7     | 96.5     | 97.2     | 97.3     | 97.3     | 97.8     | 98.9     |
| GE 900                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.8     | 90.1     | 90.9     | 94.7     | 95.6     | 95.7     | 96.5     | 97.2     | 97.3     | 97.3     | 97.8     | 98.9     |
| GE 800                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.3     | 91.1     | 94.9     | 95.8     | 96.0     | 96.8     | 97.6     | 97.7     | 97.7     | 98.3     | 99.4     |
| GE 700                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.4     | 91.2     | 95.0     | 95.9     | 96.1     | 97.0     | 97.8     | 97.9     | 97.9     | 98.5     | 99.5     |
| GE 600                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.4     | 91.2     | 95.0     | 95.9     | 96.1     | 97.0     | 97.8     | 97.9     | 97.9     | 98.5     | 99.5     |
| GE 500                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.4     | 91.2     | 95.1     | 96.0     | 96.2     | 97.1     | 97.9     | 98.0     | 98.0     | 98.6     | 99.6     |
| GE 400                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.4     | 91.2     | 95.1     | 96.0     | 96.2     | 97.1     | 97.9     | 98.0     | 98.0     | 98.6     | 99.6     |
| GE 300                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.4     | 91.2     | 95.1     | 96.0     | 96.2     | 97.1     | 97.9     | 98.0     | 98.1     | 98.6     | 99.7     |
| GE 200                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.5     | 91.3     | 95.2     | 96.1     | 96.3     | 97.2     | 98.0     | 98.1     | 98.3     | 98.8     | 99.9     |
| GE 100                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.5     | 91.3     | 95.2     | 96.1     | 96.3     | 97.2     | 98.0     | 98.1     | 98.3     | 98.8     | 99.9     |
| GE 000                | 24.1                 | 47.2     | 69.4     | 75.3     | 86.9     | 90.5     | 91.3     | 95.2     | 96.1     | 96.3     | 97.2     | 98.0     | 98.1     | 98.3     | 98.8     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1106

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 12-14

| CEILING<br>In<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 32.1                 | 58.2     | 73.0     | 75.6     | 79.6     | 80.4     | 80.4     | 80.7     | 80.7     | 80.7     | 80.7     | 80.7     | 80.7     | 80.7     | 80.7     | 80.8     |
| GE 4500               | 32.1                 | 58.3     | 73.1     | 75.7     | 79.7     | 80.5     | 80.5     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.8     | 80.9     |
| GE 4000               | 32.7                 | 58.8     | 73.7     | 76.3     | 80.4     | 81.1     | 81.1     | 81.5     | 81.5     | 81.5     | 81.5     | 81.5     | 81.5     | 81.5     | 81.5     | 81.6     |
| GE 3500               | 33.5                 | 59.6     | 74.7     | 77.4     | 81.4     | 82.1     | 82.1     | 82.5     | 82.5     | 82.5     | 82.5     | 82.5     | 82.5     | 82.5     | 82.5     | 82.6     |
| GE 3000               | 35.4                 | 61.7     | 76.8     | 79.5     | 83.6     | 84.3     | 84.3     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     | 84.7     |
| GE 2500               | 38.4                 | 64.7     | 80.5     | 83.3     | 87.6     | 88.3     | 88.3     | 88.7     | 88.7     | 88.7     | 88.7     | 88.7     | 88.7     | 88.7     | 88.7     | 88.8     |
| GE 2000               | 41.9                 | 68.4     | 86.0     | 89.0     | 94.0     | 95.0     | 95.1     | 95.6     | 95.7     | 95.7     | 95.7     | 95.8     | 95.8     | 95.8     | 95.8     | 95.9     |
| GE 1800               | 42.2                 | 68.7     | 86.7     | 89.8     | 95.0     | 96.1     | 96.2     | 96.9     | 97.2     | 97.2     | 97.2     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4     |
| GE 1500               | 42.4                 | 68.9     | 87.0     | 90.1     | 95.5     | 96.8     | 96.9     | 97.8     | 98.3     | 98.3     | 98.3     | 98.5     | 98.5     | 98.5     | 98.5     | 98.6     |
| GE 1200               | 42.4                 | 68.9     | 87.2     | 90.4     | 95.9     | 97.2     | 97.3     | 98.2     | 98.6     | 98.6     | 98.6     | 98.9     | 98.9     | 98.9     | 98.9     | 99.0     |
| GE 1000               | 42.6                 | 69.0     | 87.5     | 90.7     | 96.3     | 97.6     | 97.7     | 98.8     | 99.3     | 99.3     | 99.3     | 99.5     | 99.5     | 99.5     | 99.5     | 99.6     |
| GE 900                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.3     | 97.6     | 97.7     | 98.8     | 99.3     | 99.3     | 99.3     | 99.5     | 99.5     | 99.5     | 99.5     | 99.6     |
| GE 800                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 700                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 600                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 500                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 400                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 300                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 200                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 100                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 000                | 42.6                 | 69.0     | 87.5     | 90.7     | 96.4     | 97.7     | 97.8     | 98.9     | 99.4     | 99.5     | 99.5     | 99.9     | 99.9     | 99.9     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1095

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 41.4                 | 71.3     | 75.8     | 76.6     | 77.4     | 77.6     | 77.6     | 77.7     | 77.7     | 77.7     | 77.8     | 77.8     | 77.8     | 77.8     | 77.8     | 77.8     |
| GE 4500               | 41.4                 | 71.3     | 75.8     | 76.6     | 77.4     | 77.6     | 77.6     | 77.7     | 77.7     | 77.7     | 77.8     | 77.8     | 77.8     | 77.8     | 77.8     | 77.8     |
| GE 4000               | 41.8                 | 71.9     | 76.4     | 77.2     | 78.0     | 78.2     | 78.2     | 78.4     | 78.4     | 78.4     | 78.5     | 78.5     | 78.5     | 78.5     | 78.5     | 78.5     |
| GE 3500               | 42.6                 | 72.7     | 77.2     | 77.9     | 78.8     | 79.0     | 79.2     | 79.2     | 79.2     | 79.2     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     | 79.3     |
| GE 3000               | 45.2                 | 75.3     | 80.1     | 80.9     | 81.9     | 82.0     | 82.0     | 82.2     | 82.2     | 82.2     | 82.3     | 82.3     | 82.3     | 82.3     | 82.3     | 82.3     |
| GE 2500               | 52.2                 | 82.3     | 87.6     | 88.3     | 89.3     | 89.6     | 89.6     | 89.8     | 89.9     | 89.9     | 90.0     | 90.0     | 90.0     | 90.0     | 90.0     | 90.0     |
| GE 2000               | 55.5                 | 85.7     | 92.0     | 92.9     | 94.5     | 95.2     | 95.2     | 95.9     | 96.0     | 96.0     | 96.1     | 96.1     | 96.1     | 96.1     | 96.1     | 96.1     |
| GE 1800               | 56.2                 | 86.3     | 92.7     | 93.8     | 95.9     | 96.7     | 96.7     | 97.6     | 97.7     | 97.7     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8     | 97.8     |
| GE 1500               | 56.5                 | 86.7     | 93.4     | 94.5     | 96.8     | 97.7     | 97.7     | 98.8     | 98.9     | 98.9     | 98.9     | 99.0     | 99.1     | 99.1     | 99.1     | 99.1     |
| GE 1200               | 56.7                 | 86.9     | 93.6     | 94.7     | 96.9     | 98.0     | 98.0     | 99.1     | 99.2     | 99.2     | 99.3     | 99.4     | 99.5     | 99.5     | 99.5     | 99.5     |
| GE 1000               | 5.7                  | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.4     | 99.5     | 99.5     | 99.6     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 900                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.4     | 99.5     | 99.5     | 99.6     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     |
| GE 800                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 700                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 600                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 500                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 400                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 56.7                 | 86.9     | 93.6     | 94.7     | 97.0     | 98.3     | 98.3     | 99.5     | 99.6     | 99.6     | 99.7     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1047

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 41.8                 | 76.8     | 79.0     | 80.1     | 81.1     | 81.6     | 81.6     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     |
| GE 4500               | 41.8                 | 76.8     | 79.0     | 80.1     | 81.1     | 81.6     | 81.6     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9     |
| GE 4000               | 42.1                 | 77.1     | 79.3     | 80.4     | 81.4     | 81.9     | 81.9     | 82.2     | 82.2     | 82.2     | 82.2     | 82.2     | 82.2     | 82.2     | 82.2     | 82.2     |
| GE 3500               | 42.8                 | 77.7     | 80.0     | 81.1     | 82.1     | 82.5     | 82.5     | 82.9     | 82.9     | 82.9     | 82.9     | 82.9     | 82.9     | 82.9     | 82.9     | 82.9     |
| GE 3000               | 45.7                 | 80.6     | 83.2     | 84.3     | 85.3     | 85.9     | 85.9     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     | 86.2     |
| GE 2500               | 49.0                 | 84.3     | 87.5     | 88.8     | 89.7     | 90.4     | 90.4     | 90.7     | 90.7     | 90.7     | 90.7     | 90.7     | 90.7     | 90.7     | 90.7     | 90.7     |
| GE 2000               | 50.5                 | 85.7     | 89.9     | 91.2     | 93.1     | 94.4     | 94.6     | 95.0     | 95.0     | 95.0     | 95.0     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     |
| GE 1800               | 51.3                 | 86.5     | 90.9     | 92.1     | 94.6     | 95.8     | 96.0     | 96.5     | 96.5     | 96.5     | 96.5     | 96.6     | 96.6     | 96.6     | 96.6     | 96.6     |
| GE 1500               | 51.8                 | 87.0     | 91.7     | 92.9     | 96.0     | 97.4     | 97.6     | 98.1     | 98.1     | 98.1     | 98.2     | 98.4     | 98.4     | 98.4     | 98.6     | 98.6     |
| GE 1200               | 51.9                 | 87.2     | 91.8     | 93.1     | 96.5     | 97.9     | 98.1     | 98.6     | 98.6     | 98.6     | 98.7     | 98.9     | 98.9     | 99.0     | 99.2     | 99.2     |
| GE 1000               | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.2     | 99.2     | 99.2     | 99.4     | 99.5     | 99.5     | 99.7     | 99.8     | 99.8     |
| GE 900                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.2     | 99.2     | 99.2     | 99.4     | 99.5     | 99.5     | 99.7     | 99.8     | 99.8     |
| GE 800                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |
| GE 700                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |
| GE 600                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |
| GE 500                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |
| GE 400                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |
| GE 300                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |
| GE 200                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |
| GE 100                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |
| GE 000                | 51.9                 | 87.2     | 91.8     | 93.3     | 97.0     | 98.6     | 98.7     | 99.4     | 99.4     | 99.4     | 99.5     | 99.7     | 99.7     | 99.8     | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 624

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 31.2                 | 59.3     | 71.1     | 73.8     | 78.3     | 79.4     | 79.5     | 80.7     | 81.0     | 81.0     | 81.2     | 81.4     | 81.4     | 81.4     | 81.5     | 81.9     |
| GE 4500               | 31.2                 | 59.3     | 71.1     | 73.8     | 78.3     | 79.4     | 79.5     | 80.7     | 81.0     | 81.1     | 81.2     | 81.4     | 81.4     | 81.4     | 81.6     | 81.9     |
| GE 4000               | 31.7                 | 59.8     | 71.6     | 74.3     | 78.8     | 79.9     | 80.1     | 81.3     | 81.6     | 81.6     | 81.7     | 81.9     | 81.9     | 81.9     | 82.1     | 82.4     |
| GE 3500               | 32.4                 | 60.5     | 72.3     | 75.0     | 79.6     | 80.7     | 80.9     | 82.1     | 82.4     | 82.4     | 82.6     | 82.8     | 82.8     | 82.8     | 82.9     | 83.3     |
| GE 3000               | 34.2                 | 62.3     | 74.5     | 77.2     | 81.9     | 83.1     | 83.2     | 84.4     | 84.8     | 84.8     | 84.9     | 85.1     | 85.1     | 85.1     | 85.3     | 85.6     |
| GE 2500               | 38.0                 | 66.3     | 79.1     | 82.0     | 86.9     | 88.1     | 88.2     | 89.4     | 89.8     | 89.8     | 90.0     | 90.2     | 90.2     | 90.2     | 90.3     | 90.7     |
| GE 2000               | 40.2                 | 68.6     | 82.7     | 85.7     | 91.2     | 92.8     | 93.0     | 94.5     | 94.9     | 94.9     | 95.1     | 95.4     | 95.4     | 95.4     | 95.5     | 95.9     |
| GE 1800               | 40.6                 | 69.0     | 83.3     | 86.4     | 92.2     | 93.9     | 94.2     | 95.8     | 96.3     | 96.3     | 96.5     | 96.8     | 96.8     | 96.8     | 97.0     | 97.3     |
| GE 1500               | 40.9                 | 69.3     | 83.9     | 87.0     | 93.1     | 94.9     | 95.2     | 97.0     | 97.5     | 97.5     | 97.8     | 98.2     | 98.5     | 98.3     | 98.5     | 98.8     |
| GE 1200               | 40.9                 | 69.3     | 84.0     | 87.2     | 93.3     | 95.2     | 95.5     | 97.4     | 97.8     | 97.9     | 98.1     | 98.5     | 98.6     | 98.6     | 98.8     | 99.1     |
| GE 1000               | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.5     | 95.8     | 97.7     | 98.2     | 98.2     | 98.5     | 98.9     | 99.0     | 99.0     | 99.2     | 99.5     |
| GE 900                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.5     | 95.8     | 97.7     | 98.2     | 98.2     | 98.5     | 98.9     | 99.0     | 99.0     | 99.2     | 99.5     |
| GE 800                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.8     | 98.3     | 98.4     | 98.7     | 99.2     | 99.2     | 99.2     | 99.5     | 99.8     |
| GE 700                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.9     | 98.3     | 98.4     | 98.7     | 99.2     | 99.3     | 99.3     | 99.5     | 99.8     |
| GE 600                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.9     | 98.3     | 98.4     | 98.7     | 99.2     | 99.3     | 99.3     | 99.5     | 99.8     |
| GE 500                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.9     | 98.3     | 98.4     | 98.8     | 99.2     | 99.3     | 99.3     | 99.5     | 99.9     |
| GE 400                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.9     | 98.3     | 98.4     | 98.8     | 99.2     | 99.3     | 99.3     | 99.5     | 99.9     |
| GE 300                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.9     | 98.3     | 98.4     | 98.8     | 99.2     | 99.3     | 99.3     | 99.6     | 99.9     |
| GE 200                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.9     | 98.4     | 98.4     | 98.8     | 99.3     | 99.3     | 99.4     | 99.6     | 100.0    |
| GE 100                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.9     | 98.4     | 98.4     | 98.8     | 99.3     | 99.3     | 99.4     | 99.6     | 100.0    |
| GE 000                | 41.0                 | 69.4     | 84.1     | 87.3     | 93.5     | 95.6     | 95.9     | 97.9     | 98.4     | 98.4     | 98.8     | 99.3     | 99.3     | 99.4     | 99.6     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 4420

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 08390

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 06-08

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE       | 5000 | 22.0                 | 52.2  | 65.5  | 69.6  | 75.4  | 76.7  | 76.9  | 78.2  | 79.5  | 79.5  | 79.7  | 80.6  | 80.6  | 80.6  | 81.3  | 82.8  |
| GE       | 4500 | 22.0                 | 52.2  | 65.5  | 69.6  | 75.4  | 76.7  | 76.9  | 78.2  | 79.5  | 79.5  | 79.7  | 80.6  | 80.6  | 80.6  | 81.3  | 82.8  |
| GE       | 4000 | 22.4                 | 52.6  | 66.2  | 70.3  | 76.1  | 77.4  | 77.6  | 78.9  | 80.2  | 80.2  | 80.4  | 81.3  | 81.3  | 81.3  | 81.9  | 83.4  |
| GE       | 3500 | 22.4                 | 52.6  | 66.2  | 70.3  | 76.1  | 77.4  | 77.6  | 78.9  | 80.2  | 80.2  | 80.4  | 81.3  | 81.3  | 81.3  | 81.9  | 83.4  |
| GE       | 3000 | 23.5                 | 53.7  | 67.5  | 71.6  | 77.2  | 79.1  | 79.3  | 80.6  | 81.9  | 81.9  | 82.1  | 83.0  | 83.0  | 83.0  | 83.6  | 85.1  |
| GE       | 2500 | 26.9                 | 57.8  | 72.6  | 77.4  | 84.3  | 85.6  | 85.8  | 87.1  | 88.6  | 88.6  | 88.8  | 89.7  | 89.7  | 89.7  | 90.3  | 91.8  |
| GE       | 2000 | 28.4                 | 59.5  | 76.1  | 81.3  | 89.9  | 91.2  | 91.4  | 92.7  | 94.2  | 94.2  | 94.4  | 95.3  | 95.3  | 95.3  | 95.9  | 97.4  |
| GE       | 1800 | 28.7                 | 59.7  | 76.5  | 81.7  | 90.7  | 92.0  | 92.2  | 93.5  | 95.0  | 95.0  | 95.3  | 96.1  | 96.1  | 96.1  | 96.8  | 98.3  |
| GE       | 1500 | 28.7                 | 59.7  | 77.2  | 82.3  | 91.6  | 92.9  | 93.1  | 94.4  | 96.1  | 96.1  | 96.3  | 97.2  | 97.2  | 97.2  | 97.8  | 99.4  |
| GE       | 1200 | 28.7                 | 59.7  | 77.2  | 82.3  | 91.6  | 92.9  | 93.1  | 94.4  | 96.1  | 96.1  | 96.3  | 97.2  | 97.2  | 97.2  | 97.8  | 99.4  |
| GE       | 1000 | 28.7                 | 59.7  | 77.2  | 82.3  | 91.6  | 92.9  | 93.1  | 94.4  | 96.1  | 96.1  | 96.3  | 97.2  | 97.2  | 97.2  | 97.8  | 99.4  |
| GE       | 900  | 28.7                 | 59.7  | 77.2  | 82.3  | 91.6  | 92.9  | 93.1  | 94.4  | 96.1  | 96.1  | 96.3  | 97.2  | 97.2  | 97.2  | 97.8  | 99.4  |
| GE       | 800  | 28.7                 | 59.7  | 77.2  | 82.3  | 91.6  | 92.9  | 93.1  | 94.4  | 96.1  | 96.1  | 96.3  | 97.2  | 97.2  | 97.2  | 97.8  | 99.6  |
| GE       | 700  | 28.7                 | 59.9  | 77.4  | 82.5  | 91.8  | 93.1  | 93.3  | 94.6  | 96.3  | 96.3  | 96.6  | 97.4  | 97.4  | 97.4  | 98.1  | 99.8  |
| GE       | 600  | 28.7                 | 59.9  | 77.4  | 82.5  | 91.8  | 93.1  | 93.3  | 94.6  | 96.3  | 96.3  | 96.6  | 97.4  | 97.4  | 97.4  | 98.1  | 99.8  |
| GE       | 500  | 28.7                 | 59.9  | 77.4  | 82.5  | 91.8  | 93.1  | 93.3  | 94.6  | 96.3  | 96.3  | 96.6  | 97.4  | 97.4  | 97.4  | 98.1  | 99.8  |
| GE       | 400  | 28.7                 | 59.9  | 77.4  | 82.5  | 91.8  | 93.1  | 93.3  | 94.6  | 96.3  | 96.3  | 96.6  | 97.4  | 97.4  | 97.4  | 98.1  | 99.8  |
| GE       | 300  | 28.7                 | 59.9  | 77.4  | 82.5  | 91.8  | 93.1  | 93.3  | 94.6  | 96.3  | 96.3  | 96.6  | 97.4  | 97.4  | 97.4  | 98.1  | 99.8  |
| GE       | 200  | 28.9                 | 60.1  | 77.6  | 82.8  | 92.0  | 93.3  | 93.5  | 94.8  | 96.6  | 96.6  | 96.8  | 97.6  | 97.6  | 97.6  | 98.3  | 100.0 |
| GE       | 100  | 28.9                 | 60.1  | 77.6  | 82.8  | 92.0  | 93.3  | 93.5  | 94.8  | 96.6  | 96.6  | 96.8  | 97.6  | 97.6  | 97.6  | 98.3  | 100.0 |
| GE       | 000  | 28.9                 | 60.1  | 77.6  | 82.8  | 92.0  | 93.3  | 93.5  | 94.8  | 96.6  | 96.6  | 96.8  | 97.6  | 97.6  | 97.6  | 98.3  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 464

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 09-11

| CEILING  |      | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN       | FEET | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |      |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  |      | 20.8                 | 38.8  | 54.0  | 58.8  | 67.9  | 70.7  | 71.2  | 73.5  | 74.7  | 74.7  | 74.9  | 75.3  | 75.6  | 75.7  | 75.9  | 77.1  |
| GE 4500  |      | 20.8                 | 38.8  | 54.0  | 58.8  | 67.9  | 70.7  | 71.2  | 73.5  | 74.7  | 74.7  | 74.9  | 75.3  | 75.6  | 75.7  | 75.9  | 77.1  |
| GE 4000  |      | 21.1                 | 39.0  | 54.4  | 59.3  | 68.4  | 71.2  | 71.8  | 74.1  | 75.2  | 75.2  | 75.5  | 75.9  | 76.1  | 76.2  | 76.4  | 77.6  |
| GE 3500  |      | 21.1                 | 39.1  | 54.6  | 59.5  | 68.5  | 71.4  | 72.0  | 74.4  | 75.5  | 75.5  | 75.8  | 76.1  | 76.4  | 76.5  | 76.7  | 77.9  |
| GE 3000  |      | 21.8                 | 40.0  | 56.6  | 61.6  | 70.9  | 73.8  | 74.4  | 77.0  | 78.1  | 78.1  | 78.4  | 78.7  | 79.0  | 79.1  | 79.3  | 80.5  |
| GE 2500  |      | 25.1                 | 43.4  | 61.1  | 66.4  | 76.8  | 79.9  | 80.5  | 83.8  | 85.0  | 85.0  | 85.4  | 85.8  | 86.0  | 86.1  | 86.3  | 87.5  |
| GE 2000  |      | 27.1                 | 45.5  | 64.2  | 69.7  | 81.4  | 85.3  | 85.8  | 89.7  | 90.9  | 90.9  | 91.4  | 91.9  | 92.1  | 92.2  | 92.4  | 93.6  |
| GE 1800  |      | 27.5                 | 46.1  | 64.9  | 70.4  | 82.7  | 86.6  | 87.1  | 91.2  | 92.5  | 92.5  | 93.2  | 93.6  | 94.0  | 94.1  | 94.3  | 95.5  |
| GE 1500  |      | 27.8                 | 46.3  | 66.0  | 71.5  | 83.8  | 88.3  | 88.9  | 93.2  | 94.6  | 94.6  | 95.3  | 95.7  | 96.1  | 96.2  | 96.4  | 97.6  |
| GE 1200  |      | 27.8                 | 46.3  | 66.0  | 71.5  | 84.0  | 88.4  | 89.1  | 93.4  | 94.9  | 94.9  | 95.6  | 96.0  | 96.4  | 96.5  | 96.7  | 97.9  |
| GE 1000  |      | 27.8                 | 46.3  | 66.0  | 71.5  | 84.1  | 88.5  | 89.2  | 93.8  | 95.5  | 95.5  | 96.1  | 96.7  | 97.0  | 97.1  | 97.3  | 98.5  |
| GE 900   |      | 27.8                 | 46.3  | 66.0  | 71.5  | 84.1  | 88.5  | 89.2  | 93.8  | 95.5  | 95.5  | 96.1  | 96.7  | 97.0  | 97.1  | 97.3  | 98.5  |
| GE 800   |      | 27.8                 | 46.3  | 66.0  | 71.5  | 84.1  | 88.5  | 89.2  | 93.8  | 95.6  | 95.6  | 96.2  | 96.8  | 97.1  | 97.2  | 97.5  | 99.0  |
| GE 700   |      | 27.8                 | 46.3  | 66.0  | 71.6  | 84.2  | 88.6  | 89.3  | 93.9  | 95.7  | 95.7  | 96.3  | 96.9  | 97.2  | 97.3  | 97.6  | 99.1  |
| GE 600   |      | 27.8                 | 46.3  | 66.0  | 71.6  | 84.2  | 88.6  | 89.3  | 93.9  | 95.7  | 95.7  | 96.4  | 96.9  | 97.3  | 97.4  | 97.7  | 99.2  |
| GE 500   |      | 27.8                 | 46.3  | 66.0  | 71.7  | 84.3  | 88.7  | 89.4  | 94.0  | 95.7  | 95.8  | 96.7  | 97.2  | 97.6  | 97.7  | 98.0  | 99.4  |
| GE 400   |      | 27.8                 | 46.3  | 66.0  | 71.7  | 84.3  | 88.7  | 89.4  | 94.0  | 95.7  | 95.8  | 96.7  | 97.2  | 97.6  | 97.8  | 98.1  | 99.5  |
| GE 300   |      | 27.8                 | 46.3  | 66.0  | 71.7  | 84.3  | 88.7  | 89.4  | 94.0  | 95.7  | 95.8  | 96.7  | 97.2  | 97.6  | 97.8  | 98.1  | 99.8  |
| GE 200   |      | 27.8                 | 46.3  | 66.0  | 71.7  | 84.3  | 88.7  | 89.4  | 94.0  | 95.7  | 95.8  | 96.7  | 97.2  | 97.6  | 97.8  | 98.1  | 99.8  |
| GE 100   |      | 27.8                 | 46.3  | 66.0  | 71.7  | 84.3  | 88.7  | 89.4  | 94.0  | 95.7  | 95.8  | 96.7  | 97.2  | 97.6  | 97.8  | 98.1  | 99.8  |
| GE 000   |      | 27.8                 | 46.3  | 66.0  | 71.7  | 84.3  | 88.7  | 89.4  | 94.0  | 95.7  | 95.8  | 96.7  | 97.2  | 97.6  | 97.8  | 98.1  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1081

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 12-14

| CEILING  | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 28.3                 | 49.4  | 62.1  | 65.9  | 72.5  | 74.2  | 74.6  | 75.8  | 75.9  | 75.9  | 76.0  | 76.1  | 76.1  | 76.1  | 76.2  | 76.6  |
| GE 4500  | 28.3                 | 49.4  | 62.1  | 65.9  | 72.5  | 74.2  | 74.6  | 75.8  | 75.9  | 75.9  | 76.0  | 76.1  | 76.1  | 76.1  | 76.2  | 76.6  |
| GE 4000  | 28.9                 | 49.9  | 62.6  | 66.4  | 73.0  | 74.8  | 75.1  | 76.3  | 76.5  | 76.5  | 76.6  | 76.7  | 76.7  | 76.7  | 76.8  | 77.2  |
| GE 3500  | 29.5                 | 50.5  | 63.5  | 67.3  | 73.9  | 75.7  | 76.0  | 77.2  | 77.4  | 77.4  | 77.5  | 77.6  | 77.6  | 77.6  | 77.7  | 78.1  |
| GE 3000  | 31.1                 | 52.2  | 65.4  | 69.2  | 76.0  | 77.8  | 78.2  | 79.4  | 79.6  | 79.6  | 79.8  | 79.8  | 79.8  | 79.8  | 79.9  | 80.3  |
| GE 2500  | 35.2                 | 56.5  | 71.0  | 75.0  | 82.1  | 84.1  | 84.5  | 86.0  | 86.1  | 86.1  | 86.3  | 86.5  | 86.5  | 86.5  | 86.6  | 86.9  |
| GE 2000  | 37.8                 | 59.2  | 75.0  | 79.1  | 87.7  | 90.1  | 90.6  | 92.2  | 92.4  | 92.4  | 92.6  | 92.9  | 92.9  | 92.9  | 93.0  | 93.3  |
| GE 1800  | 38.4                 | 59.8  | 76.1  | 80.3  | 89.1  | 91.7  | 92.1  | 93.8  | 94.0  | 94.0  | 94.2  | 94.6  | 94.6  | 94.6  | 94.8  | 95.2  |
| GE 1500  | 38.8                 | 60.2  | 77.3  | 81.4  | 90.6  | 93.4  | 93.9  | 95.7  | 95.9  | 95.9  | 96.2  | 96.5  | 96.5  | 96.5  | 96.8  | 97.2  |
| GE 1200  | 38.9                 | 60.3  | 77.4  | 81.6  | 90.8  | 93.7  | 94.1  | 96.0  | 96.2  | 96.2  | 96.4  | 97.0  | 97.0  | 97.0  | 97.2  | 97.6  |
| GE 1000  | 38.9                 | 60.3  | 77.5  | 81.7  | 90.9  | 93.9  | 94.3  | 96.2  | 96.4  | 96.4  | 96.6  | 97.2  | 97.2  | 97.2  | 97.5  | 97.9  |
| GE 900   | 38.9                 | 60.3  | 77.5  | 81.7  | 90.9  | 93.9  | 94.3  | 96.3  | 96.4  | 96.4  | 96.7  | 97.3  | 97.3  | 97.3  | 97.6  | 98.0  |
| GE 800   | 38.9                 | 60.3  | 77.5  | 81.7  | 90.9  | 93.9  | 94.3  | 96.4  | 96.9  | 96.9  | 97.2  | 97.8  | 97.8  | 97.8  | 98.0  | 98.4  |
| GE 700   | 38.9                 | 60.3  | 77.5  | 81.7  | 90.9  | 93.9  | 94.3  | 96.6  | 97.2  | 97.2  | 97.5  | 98.2  | 98.2  | 98.2  | 98.5  | 98.8  |
| GE 600   | 38.9                 | 60.3  | 77.5  | 81.7  | 91.0  | 94.0  | 94.4  | 96.7  | 97.4  | 97.4  | 97.8  | 98.5  | 98.5  | 98.5  | 98.8  | 99.1  |
| GE 500   | 38.9                 | 60.3  | 77.5  | 81.7  | 91.1  | 94.0  | 94.5  | 96.8  | 97.5  | 97.5  | 98.0  | 98.8  | 98.8  | 98.8  | 99.1  | 99.5  |
| GE 400   | 38.9                 | 60.3  | 77.5  | 81.7  | 91.1  | 94.0  | 94.5  | 96.9  | 97.6  | 97.6  | 98.0  | 98.8  | 98.9  | 98.9  | 99.3  | 99.6  |
| GE 300   | 38.9                 | 60.3  | 77.5  | 81.7  | 91.1  | 94.0  | 94.5  | 96.9  | 97.6  | 97.6  | 98.0  | 98.8  | 99.0  | 99.0  | 99.5  | 99.8  |
| GE 200   | 38.9                 | 60.3  | 77.5  | 81.7  | 91.1  | 94.0  | 94.5  | 96.9  | 97.6  | 97.6  | 98.0  | 98.8  | 99.0  | 99.0  | 99.5  | 99.8  |
| GE 100   | 38.9                 | 60.3  | 77.5  | 81.7  | 91.1  | 94.0  | 94.5  | 96.9  | 97.6  | 97.6  | 98.0  | 98.8  | 99.0  | 99.0  | 99.5  | 99.9  |
| GE 000   | 38.9                 | 60.3  | 77.5  | 81.7  | 91.1  | 94.0  | 94.5  | 96.9  | 97.6  | 97.6  | 98.0  | 98.9  | 99.1  | 99.1  | 99.6  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 1126

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 15-17

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 38.3                 | 66.9     | 72.4     | 73.4     | 74.9     | 75.1     | 75.2     | 75.5     | 75.5     | 75.5     | 75.5     | 75.6     | 75.6     | 75.6     | 75.6     | 75.7     |
| GE 4500               | 38.3                 | 66.9     | 72.4     | 73.4     | 74.9     | 75.1     | 75.2     | 75.5     | 75.5     | 75.5     | 75.5     | 75.6     | 75.6     | 75.6     | 75.6     | 75.7     |
| GE 4000               | 38.5                 | 67.1     | 72.8     | 73.8     | 75.4     | 75.6     | 75.7     | 76.0     | 76.0     | 76.0     | 76.0     | 76.1     | 76.1     | 76.1     | 76.1     | 76.2     |
| GE 3500               | 39.1                 | 67.7     | 73.3     | 74.4     | 76.0     | 76.2     | 76.3     | 76.6     | 76.6     | 76.6     | 76.6     | 76.7     | 76.7     | 76.7     | 76.7     | 76.8     |
| GE 3000               | 41.2                 | 70.0     | 76.1     | 77.2     | 78.8     | 79.0     | 79.1     | 79.4     | 79.4     | 79.4     | 79.4     | 79.5     | 79.5     | 79.5     | 79.5     | 79.6     |
| GE 2500               | 48.2                 | 77.5     | 84.2     | 85.4     | 87.1     | 87.5     | 87.6     | 87.9     | 87.9     | 87.9     | 87.9     | 88.0     | 88.0     | 88.0     | 88.0     | 88.1     |
| GE 2000               | 52.6                 | 82.0     | 90.3     | 91.9     | 94.2     | 95.1     | 95.2     | 95.6     | 95.6     | 95.6     | 95.6     | 95.7     | 95.7     | 95.7     | 95.7     | 95.8     |
| GE 1800               | 53.3                 | 82.7     | 91.3     | 92.9     | 95.4     | 96.2     | 96.3     | 96.8     | 96.8     | 96.8     | 96.8     | 96.9     | 97.0     | 97.0     | 97.0     | 97.1     |
| GE 1500               | 54.1                 | 83.5     | 92.1     | 93.8     | 96.3     | 97.2     | 97.3     | 97.8     | 97.9     | 97.9     | 97.9     | 98.0     | 98.2     | 98.2     | 98.2     | 98.3     |
| GE 1200               | 54.2                 | 83.6     | 92.2     | 93.9     | 96.5     | 97.4     | 97.5     | 98.1     | 98.2     | 98.2     | 98.2     | 98.3     | 98.5     | 98.5     | 98.5     | 98.6     |
| GE 1000               | 54.2                 | 83.6     | 92.3     | 94.0     | 96.6     | 97.6     | 97.7     | 98.4     | 98.5     | 98.5     | 98.5     | 98.6     | 98.8     | 98.8     | 98.8     | 98.9     |
| GE 900                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.6     | 97.6     | 97.7     | 98.4     | 98.5     | 98.5     | 98.5     | 98.6     | 98.8     | 98.8     | 98.8     | 98.9     |
| GE 800                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.6     | 97.6     | 97.7     | 98.4     | 98.5     | 98.5     | 98.5     | 98.6     | 98.8     | 98.8     | 98.8     | 98.9     |
| GE 700                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.6     | 97.6     | 97.7     | 98.5     | 98.6     | 98.6     | 98.6     | 98.8     | 99.0     | 99.0     | 99.0     | 99.1     |
| GE 600                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.7     | 97.7     | 97.8     | 98.6     | 98.8     | 98.8     | 98.9     | 99.4     | 99.6     | 99.6     | 99.6     | 99.7     |
| GE 500                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.7     | 97.7     | 97.8     | 98.6     | 98.8     | 98.8     | 98.9     | 99.4     | 99.6     | 99.6     | 99.6     | 99.7     |
| GE 400                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.7     | 97.7     | 97.8     | 98.7     | 98.9     | 98.9     | 99.0     | 99.5     | 99.7     | 99.7     | 99.7     | 99.8     |
| GE 300                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.7     | 97.7     | 97.8     | 98.7     | 98.9     | 98.9     | 99.1     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 200                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.7     | 97.7     | 97.8     | 98.7     | 98.9     | 98.9     | 99.1     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 100                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.7     | 97.7     | 97.8     | 98.7     | 98.9     | 98.9     | 99.1     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    |
| GE 000                | 54.2                 | 83.6     | 92.3     | 94.0     | 96.7     | 97.7     | 97.8     | 98.7     | 98.9     | 98.9     | 99.1     | 99.7     | 99.9     | 99.9     | 99.9     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 1013

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: 18-20

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 43.6                 | 72.3     | 76.5     | 77.0     | 78.3     | 78.3     | 78.3     | 78.6     | 79.0     | 79.0     | 79.0     | 79.0     | 79.0     | 79.0     | 79.0     | 79.0     |
| GE 4500               | 43.6                 | 72.3     | 76.5     | 77.0     | 78.3     | 78.3     | 78.3     | 78.6     | 79.0     | 79.0     | 79.0     | 79.0     | 79.0     | 79.0     | 79.0     | 79.0     |
| GE 4000               | 43.8                 | 72.4     | 76.6     | 77.2     | 78.5     | 78.5     | 78.5     | 78.8     | 79.2     | 79.2     | 79.2     | 79.2     | 79.2     | 79.2     | 79.2     | 79.2     |
| GE 3500               | 44.5                 | 73.2     | 77.6     | 78.1     | 79.4     | 79.4     | 79.4     | 79.7     | 80.1     | 80.1     | 80.1     | 80.1     | 80.1     | 80.1     | 80.1     | 80.1     |
| GE 3000               | 47.1                 | 75.7     | 81.0     | 81.6     | 83.0     | 83.0     | 83.0     | 83.4     | 83.9     | 83.9     | 83.9     | 83.9     | 83.9     | 83.9     | 83.9     | 83.9     |
| GE 2500               | 50.2                 | 78.8     | 85.0     | 85.8     | 87.2     | 87.4     | 87.4     | 87.8     | 88.5     | 88.5     | 88.5     | 88.5     | 88.5     | 88.5     | 88.5     | 88.5     |
| GE 2000               | 53.3                 | 81.9     | 90.5     | 91.4     | 93.8     | 94.2     | 94.2     | 95.1     | 95.8     | 95.8     | 96.0     | 96.0     | 96.0     | 96.0     | 96.0     | 96.0     |
| GE 1800               | 53.6                 | 82.3     | 91.8     | 92.9     | 95.3     | 95.6     | 95.6     | 96.5     | 97.3     | 97.3     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4     |
| GE 1500               | 54.6                 | 83.      | 93.2     | 94.3     | 97.1     | 97.4     | 97.4     | 98.4     | 99.3     | 99.3     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     | 99.5     |
| GE 1200               | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 1000               | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 900                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 800                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 700                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 600                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 500                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.5     | 99.5     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     | 99.6     |
| GE 400                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.6     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 300                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.6     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 200                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.6     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 100                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.6     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |
| GE 000                | 54.6                 | 83.2     | 93.2     | 94.5     | 97.3     | 97.6     | 97.6     | 98.5     | 99.6     | 99.6     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |

TOTAL NUMBER OF OBSERVATIONS 548

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: DEC HOURS: ALL

| CEILING  | VISIBILITY IN METERS |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| IN FEET  | GE 112               | GE 90 | GE 80 | GE 60 | GE 48 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 08 | GE 06 | GE 04 | GE 00 |
| NO CEIL  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 20000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 18000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 16000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 14000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 12000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 10000 |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 9000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 8000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 7000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 6000  |                      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| GE 5000  | 30.1                 | 54.1  | 64.7  | 67.7  | 73.0  | 74.3  | 74.6  | 75.8  | 76.3  | 76.3  | 76.4  | 76.7  | 76.7  | 76.7  | 76.9  | 77.5  |
| GE 4500  | 30.1                 | 54.1  | 64.7  | 67.7  | 73.0  | 74.3  | 74.6  | 75.8  | 76.3  | 76.3  | 76.4  | 76.7  | 76.7  | 76.7  | 76.9  | 77.5  |
| GE 4000  | 30.4                 | 54.5  | 65.1  | 68.2  | 73.4  | 74.8  | 75.1  | 76.3  | 76.8  | 76.8  | 76.9  | 77.2  | 77.2  | 77.3  | 77.4  | 78.0  |
| GE 3500  | 30.8                 | 54.9  | 65.7  | 68.7  | 74.0  | 75.4  | 75.7  | 76.8  | 77.4  | 77.4  | 77.5  | 77.7  | 77.8  | 77.8  | 78.0  | 78.6  |
| GE 3000  | 32.4                 | 56.5  | 68.0  | 71.0  | 76.5  | 77.9  | 78.2  | 79.4  | 80.0  | 80.0  | 80.1  | 80.3  | 80.4  | 80.4  | 80.6  | 81.2  |
| GE 2500  | 36.7                 | 61.2  | 73.7  | 76.9  | 82.8  | 84.4  | 84.7  | 86.2  | 86.8  | 86.8  | 87.0  | 87.3  | 87.3  | 87.4  | 87.5  | 88.1  |
| GE 2000  | 39.6                 | 64.2  | 78.0  | 81.6  | 88.7  | 90.7  | 91.0  | 92.8  | 93.4  | 93.4  | 93.6  | 94.0  | 94.0  | 94.0  | 94.2  | 94.8  |
| GE 1800  | 40.1                 | 64.7  | 79.0  | 82.6  | 89.9  | 92.0  | 92.3  | 94.2  | 94.8  | 94.8  | 95.1  | 95.4  | 95.6  | 95.6  | 95.8  | 96.4  |
| GE 1500  | 40.6                 | 65.2  | 80.0  | 83.6  | 91.2  | 93.5  | 93.8  | 95.8  | 96.5  | 96.5  | 96.8  | 97.1  | 97.3  | 97.3  | 97.5  | 98.1  |
| GE 1200  | 40.6                 | 65.2  | 80.1  | 83.7  | 91.4  | 93.7  | 94.0  | 96.0  | 96.8  | 96.8  | 97.0  | 97.4  | 97.6  | 97.6  | 97.8  | 98.4  |
| GE 1000  | 40.6                 | 65.2  | 80.1  | 83.8  | 91.4  | 93.8  | 94.1  | 96.2  | 97.0  | 97.0  | 97.3  | 97.7  | 97.9  | 97.9  | 98.1  | 98.7  |
| GE 900   | 40.6                 | 65.2  | 80.1  | 83.8  | 91.4  | 93.8  | 94.1  | 96.2  | 97.0  | 97.0  | 97.3  | 97.8  | 97.9  | 97.9  | 98.1  | 98.7  |
| GE 800   | 40.6                 | 65.2  | 80.1  | 83.8  | 91.4  | 93.8  | 94.1  | 96.3  | 97.2  | 97.2  | 97.5  | 97.9  | 98.0  | 98.1  | 98.3  | 99.0  |
| GE 700   | 40.6                 | 65.2  | 80.1  | 83.8  | 91.5  | 93.8  | 94.2  | 96.4  | 97.3  | 97.3  | 97.6  | 98.1  | 98.3  | 98.3  | 98.5  | 99.2  |
| GE 600   | 40.6                 | 65.2  | 80.1  | 83.8  | 91.5  | 93.9  | 94.2  | 96.5  | 97.4  | 97.5  | 97.8  | 98.3  | 98.5  | 98.5  | 98.7  | 99.4  |
| GE 500   | 40.6                 | 65.2  | 80.2  | 83.8  | 91.6  | 93.9  | 94.3  | 96.5  | 97.5  | 97.5  | 97.9  | 98.5  | 98.6  | 98.7  | 98.9  | 99.6  |
| GE 400   | 40.6                 | 65.2  | 80.2  | 83.8  | 91.6  | 93.9  | 94.3  | 96.6  | 97.6  | 97.6  | 98.0  | 98.6  | 98.7  | 98.8  | 99.0  | 99.7  |
| GE 300   | 40.6                 | 65.2  | 80.2  | 83.8  | 91.6  | 93.9  | 94.3  | 96.6  | 97.6  | 97.6  | 98.0  | 98.6  | 98.8  | 98.9  | 99.1  | 99.9  |
| GE 200   | 40.6                 | 65.3  | 80.2  | 83.9  | 91.6  | 94.0  | 94.3  | 96.6  | 97.6  | 97.6  | 98.1  | 98.7  | 98.8  | 98.9  | 99.1  | 99.9  |
| GE 100   | 40.6                 | 65.3  | 80.2  | 83.9  | 91.6  | 94.0  | 94.3  | 96.6  | 97.6  | 97.6  | 98.1  | 98.7  | 98.8  | 98.9  | 99.1  | 99.9  |
| GE 000   | 40.6                 | 65.3  | 80.2  | 83.9  | 91.6  | 94.0  | 94.3  | 96.6  | 97.6  | 97.6  | 98.1  | 98.7  | 98.9  | 98.9  | 99.2  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 4232

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: ALL HOURS: ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN METERS |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                       | GE<br>112            | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>08 | GE<br>06 | GE<br>04 | GE<br>00 |
| NO CEIL               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 20000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 18000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 16000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 14000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 12000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 10000              |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 9000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 8000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 7000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 6000               |                      |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |
| GE 5000               | 32.4                 | 61.6     | 73.1     | 75.7     | 80.1     | 81.2     | 81.3     | 82.0     | 82.2     | 82.2     | 82.3     | 82.4     | 82.4     | 82.5     | 82.5     | 82.8     |
| GE 4500               | 32.5                 | 61.7     | 73.1     | 75.7     | 80.1     | 81.2     | 81.3     | 82.0     | 82.2     | 82.3     | 82.3     | 82.4     | 82.5     | 82.5     | 82.5     | 82.8     |
| GE 4000               | 32.8                 | 62.1     | 73.7     | 76.3     | 80.7     | 81.8     | 81.9     | 82.6     | 82.8     | 82.8     | 82.9     | 83.0     | 83.1     | 83.1     | 83.1     | 83.4     |
| GE 3500               | 33.2                 | 62.5     | 74.1     | 76.8     | 81.2     | 82.3     | 82.4     | 83.1     | 83.3     | 83.4     | 83.4     | 83.6     | 83.6     | 83.6     | 83.7     | 83.9     |
| GE 3000               | 35.3                 | 64.6     | 76.6     | 79.3     | 83.9     | 85.1     | 85.2     | 85.9     | 86.2     | 86.2     | 86.3     | 86.4     | 86.4     | 86.4     | 86.5     | 86.8     |
| GE 2500               | 39.3                 | 68.8     | 81.6     | 84.6     | 89.6     | 90.9     | 91.1     | 91.9     | 92.2     | 92.2     | 92.3     | 92.4     | 92.4     | 92.5     | 92.5     | 92.8     |
| GE 2000               | 41.4                 | 71.0     | 84.5     | 87.7     | 93.3     | 94.9     | 95.1     | 96.0     | 96.3     | 96.4     | 96.5     | 96.6     | 96.7     | 96.7     | 96.7     | 97.0     |
| GE 1800               | 41.7                 | 71.3     | 85.1     | 88.3     | 94.0     | 95.7     | 95.9     | 97.0     | 97.4     | 97.4     | 97.5     | 97.7     | 97.7     | 97.7     | 97.8     | 98.1     |
| GE 1500               | 41.8                 | 71.4     | 85.4     | 88.6     | 94.5     | 96.3     | 96.6     | 97.7     | 98.1     | 98.1     | 98.3     | 98.5     | 98.5     | 98.5     | 98.6     | 98.9     |
| GE 1200               | 41.8                 | 71.5     | 85.5     | 88.7     | 94.7     | 96.6     | 96.8     | 98.0     | 98.4     | 98.4     | 98.6     | 98.8     | 98.9     | 98.9     | 99.0     | 99.2     |
| GE 1000               | 41.8                 | 71.5     | 85.5     | 88.8     | 94.8     | 96.7     | 97.0     | 98.2     | 98.7     | 98.7     | 98.8     | 99.1     | 99.1     | 99.2     | 99.2     | 99.5     |
| GE 900                | 41.8                 | 71.5     | 85.5     | 88.8     | 94.8     | 96.7     | 97.0     | 98.3     | 98.7     | 98.7     | 98.9     | 99.1     | 99.2     | 99.2     | 99.3     | 99.5     |
| GE 800                | 41.8                 | 71.5     | 85.5     | 88.8     | 94.8     | 96.8     | 97.0     | 98.4     | 98.8     | 98.8     | 99.0     | 99.2     | 99.3     | 99.3     | 99.4     | 99.7     |
| GE 700                | 41.8                 | 71.5     | 85.5     | 88.8     | 94.9     | 96.8     | 97.1     | 98.4     | 98.9     | 98.9     | 99.0     | 99.3     | 99.4     | 99.4     | 99.5     | 99.8     |
| GE 600                | 41.8                 | 71.5     | 85.5     | 88.8     | 94.9     | 96.8     | 97.1     | 98.4     | 98.9     | 98.9     | 99.1     | 99.3     | 99.4     | 99.4     | 99.5     | 99.8     |
| GE 500                | 41.8                 | 71.5     | 85.6     | 88.8     | 94.9     | 96.9     | 97.1     | 98.5     | 98.9     | 99.0     | 99.1     | 99.4     | 99.5     | 99.5     | 99.6     | 99.9     |
| GE 400                | 41.8                 | 71.5     | 85.6     | 88.8     | 94.9     | 96.9     | 97.1     | 98.5     | 98.9     | 99.0     | 99.2     | 99.4     | 99.5     | 99.5     | 99.6     | 99.9     |
| GE 300                | 41.8                 | 71.5     | 85.6     | 88.8     | 94.9     | 96.9     | 97.1     | 98.5     | 99.0     | 99.0     | 99.2     | 99.4     | 99.5     | 99.5     | 99.6     | 99.9     |
| GE 200                | 41.9                 | 71.5     | 85.6     | 88.8     | 94.9     | 96.9     | 97.1     | 98.5     | 99.0     | 99.0     | 99.2     | 99.5     | 99.5     | 99.6     | 99.7     | 100.0    |
| GE 100                | 41.9                 | 71.5     | 85.6     | 88.8     | 94.9     | 96.9     | 97.1     | 98.5     | 99.0     | 99.0     | 99.2     | 99.5     | 99.5     | 99.6     | 99.7     | 100.0    |
| GE 000                | 41.9                 | 71.5     | 85.6     | 88.8     | 94.9     | 96.9     | 97.1     | 98.5     | 99.0     | 99.0     | 99.2     | 99.5     | 99.5     | 99.6     | 99.7     | 100.0    |

TOTAL NUMBER OF OBSERVATIONS: 55050

|          |           |          |           |            |
|----------|-----------|----------|-----------|------------|
| PPPPPPP  | AAAAA     | RRRRRRR  | TTTTTTTTT | EEEEEEEEEE |
| PPPPPPPP | AAAAAAA   | RRRRRRRR | TTTTTTTTT | EEEEEEEEEE |
| PP PP    | AA AA     | RR RR    | TT        | EE         |
| PP PP    | AA AA     | RR RR    | TT        | EE         |
| PPPPPPPP | AA AA     | RRRRRRRR | TT        | EEEEEE     |
| PPPPPPP  | AAAAAAAAA | RRRRRRR  | TT        | EEEEEE     |
| PP       | AAAAAAAAA | RR RR    | TT        | EE         |
| PP       | AA AA     | RR RR    | TT        | EE         |
| PP       | AA AA     | RR RR    | TT        | EEEEEEEEEE |
| PP       | AA AA     | RR RR    | TT        | EEEEEEEEEE |

## PART E

### TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

#### TEMPERATURE--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).

THESE TABLES ARE CREATED FROM SUMMARY OF DAY DATA AND GIVE CUMULATIVE POF FOR MAXIMUM, MINIMUM, AND MEAN TEMPERATURES, RESPECTIVELY. DATA IS SUMMARIZED BY MONTH FOR ALL YEARS COMBINED. TOTALS ARE GIVEN FOR THE WHOLE YEAR. DATA IS DISPLAYED USING 5-DEGREE FAHRENHEIT INCREMENTS (GE 0, GE 5, GE 10, ETC).. THERE IS ONE SPECIAL THRESHOLD FOR "GE 33" DEGREES. MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN.

NOTE 1. BEGINNING IN JANUARY 1946, DAILY MAXIMUM AND MINIMUM TEMPERATURES CAME ROUTINELY FROM HOURLY OBSERVATIONS ON AWS FORMS 10/10A OR FROM AUTOMATED DATA COLLECTION FROM ALL USAF-OPERATED STATIONS. REFER TO THE "STATION HISTORY" PAGE FOR DETAILED INFORMATION ON REPORTING PRACTICES.

#### MONTHLY TEMPERATURES.

ALSO FROM SUMMARY OF DAY DATA, THE TABLES GIVE MONTHLY MAXIMUM AND MINIMUM TEMPERATURES BY MONTH AND BY YEAR. MONTHLY RECORD TEMPERATURES (MAX AND MIN) ARE GIVEN, ALONG WITH TOTAL OBSERVATIONS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

#### MEAN MONTHLY TEMPERATURE.

ALSO FROM SUMMARY OF DAY DATA, GIVES MONTHLY MEAN TEMPERATURE BY MONTH, FOR ALL MONTHS, AND FOR ALL YEARS. AN ASTERISK (\*) INDICATES A VALUE FOR A MONTH FOR WHICH LESS THAN 90% OF THE DATA ARE AVAILABLE. AN ASTERISK ALSO DENOTES A YEAR(S) WITH ONE OR MORE MISSING AND/OR INCOMPLETE MONTHS.

#### DRY BULB, WET BULB, AND DEW POINT TEMPERATURES.

THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS--DATA IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS ARE GIVEN. THE MEAN NUMBER OF HOURS WITH TEMPERATURES FOR VARIOUS THRESHOLDS ALSO APPEAR AS SPECIFIED IN EACH SUMMARY AND IN ACCORDANCE WITH AFM 88-29, "ENGINEERING WEATHER DATA," AND AWSP 105-56, "METEOROLOGICAL TECHNIQUES."

NOTE 1. WINTER WET BULB AND DEW POINT MEAN TEMPERATURES FOR VERY COLD STATIONS MUST BE USED WITH CAUTION. WHEN THE DRY BULB TEMPERATURE IS BELOW -35 DEGREES F, WET BULB TEMPERATURES ARE NOT REPORTED (FMH-1B). AS A RESULT, WINTER MEAN DEW POINTS (AND MORE FREQUENTLY, WINTER MEAN WET BULB TEMPERATURES) ARE ACTUALLY LOWER THAN SHOWN IN THE TABLES. IN SOME HOUR GROUPS, IN FACT, MEAN WET BULB TEMPERATURES MAY ACTUALLY BE SHOWN AS EXCEEDING THE MEAN DRY BULB TEMPERATURES.

SPECIAL CAVEAT: DURING PART TIME PERIODS, THESE SUMMARIES REPRESENT THE "HIGH" AND "LOW" TEMPERATURES RECORDED AND NOT NECESSARILY THE ACTUAL MAXIMUM AND MINIMUM VALUES. THESE SUMMARIES ARE INFLUENCED BY THE ABSENCE OF NIGHTTIME TEMPERATURE READINGS. THEREFORE, CERTAIN SUMMARIES MAY DEPICT A SLIGHT "WARM" BIAS.

TEMPERATURE CONVERSIONS:  $F = 1.8C + 32$

$C = K - 273.0$  (BEFORE 5 APRIL 77)

$C = K - 273.2$  (SINCE 5 APRIL 77)

RELATIVE HUMIDITY--CUMULATIVE PERCENT OCCURRENCE FREQUENCY (POF).

CREATED FROM HOURLY OBSERVATIONS, THESE TABLES GIVE POF OF RELATIVE HUMIDITY FOR 10% INCREMENTS. MEANS AND TOTAL OBSERVATION COUNTS ARE ALSO PROVIDED. THE DATA IS SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MAXIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| TEMP<br>(DEG-F) | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GE 110          |       |       |       |       |       |       | .7    | .2    |       |       |       |       | .1    |
| GE 105          |       |       |       |       |       | 1.2   | 2.2   | 2.9   | .2    |       |       |       | .5    |
| GE 100          |       |       |       |       |       | 4.0   | 12.7  | 15.7  | 4.0   |       |       |       | 3.0   |
| GE 95           |       |       |       |       | 3.4   | 15.8  | 43.9  | 46.5  | 17.0  |       |       |       | 10.6  |
| GE 90           |       |       |       |       | 13.3  | 33.2  | 74.1  | 74.2  | 35.2  | 4.1   |       |       | 19.6  |
| GE 85           |       |       |       | 2.4   | 29.9  | 54.2  | 90.2  | 89.4  | 60.3  | 16.2  |       |       | 28.6  |
| GE 80           | .5    | .5    | .9    | 9.2   | 46.8  | 72.8  | 97.6  | 98.6  | 82.3  | 37.0  | 1.5   |       | 37.3  |
| GE 75           | .5    | 1.6   | 8.9   | 24.1  | 64.1  | 87.4  | 99.5  | 100.0 | 95.0  | 59.1  | 7.0   |       | 45.6  |
| GE 70           | 1.9   | 7.4   | 20.5  | 48.8  | 80.8  | 95.5  | 99.8  |       | 99.3  | 84.0  | 21.8  | .7    | 55.1  |
| GE 65           | 11.6  | 22.5  | 43.1  | 75.7  | 94.9  | 99.5  | 100.0 |       | 99.8  | 96.9  | 47.3  | 8.7   | 66.8  |
| GE 60           | 45.7  | 56.1  | 79.5  | 93.9  | 99.3  | 100.0 |       |       | 100.0 | 100.0 | 82.8  | 42.6  | 83.4  |
| GE 55           | 86.5  | 91.0  | 96.1  | 99.3  | 100.0 |       |       |       |       |       | 98.3  | 78.7  | 95.8  |
| GE 50           | 98.1  | 99.5  | 99.8  | 99.8  |       |       |       |       |       |       | 99.8  | 96.6  | 99.5  |
| GE 45           | 100.0 | 100.0 | 100.0 | 99.8  |       |       |       |       |       |       | 100.0 | 99.0  | 99.9  |
| GE 40           |       |       |       | 100.0 |       |       |       |       |       |       |       | 100.0 | 100.0 |
| MEAN            | 59.1  | 61.1  | 64.4  | 69.6  | 78.5  | 85.2  | 93.1  | 93.4  | 86.7  | 76.7  | 64.9  | 58.4  | 74.3  |
| SD              | 4.72  | 5.50  | 6.27  | 6.97  | 9.15  | 8.87  | 6.27  | 6.45  | 7.50  | 7.14  | 5.92  | 4.85  | 14.22 |
| TOTAL OBS       | 414   | 378   | 439   | 424   | 412   | 404   | 417   | 415   | 401   | 413   | 400   | 413   | 4930  |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MINIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| TEMP<br>(DEG-F) | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GE 80           |       |       |       |       |       |       | 1.2   |       | .2    |       |       |       | .1    |
| GE 75           |       |       |       |       |       | .2    | 5.5   | 2.9   | 2.0   |       |       |       | .9    |
| GE 70           |       |       |       |       |       | 2.7   | 18.7  | 21.2  | 8.5   | .7    |       |       | 4.3   |
| GE 65           |       |       |       |       | 3.4   | 22.3  | 51.3  | 57.6  | 37.7  | 4.8   | .5    |       | 14.8  |
| GE 60           |       |       | .2    | .5    | 14.8  | 55.7  | 84.9  | 87.7  | 74.6  | 27.6  | 2.3   |       | 29.0  |
| GE 55           | 3.6   | 3.2   | 6.6   | 14.4  | 50.7  | 87.4  | 99.5  | 99.3  | 90.5  | 63.9  | 14.5  | 2.4   | 44.6  |
| GE 50           | 19.8  | 14.8  | 31.2  | 52.4  | 85.0  | 99.5  | 100.0 | 100.0 | 98.3  | 89.1  | 39.8  | 14.8  | 62.1  |
| GE 45           | 42.0  | 41.8  | 58.3  | 80.7  | 97.8  | 100.0 |       |       | 100.0 | 96.1  | 67.5  | 33.2  | 76.6  |
| GE 40           | 64.3  | 70.9  | 84.3  | 95.5  | 100.0 |       |       |       |       | 98.5  | 88.3  | 60.0  | 88.6  |
| GE 35           | 82.6  | 89.7  | 97.7  | 99.5  |       |       |       |       |       | 100.0 | 97.5  | 80.9  | 95.7  |
| GE 33           | 87.2  | 93.4  | 99.5  | 100.0 |       |       |       |       |       |       | 99.0  | 89.6  | 97.4  |
| GE 30           | 96.1  | 98.1  | 100.0 |       |       |       |       |       |       |       | 100.0 | 96.1  | 99.2  |
| GE 25           | 100.0 | 100.0 |       |       |       |       |       |       |       |       |       | 99.3  | 99.9  |
| GE 20           |       |       |       |       |       |       |       |       |       |       |       | 100.0 | 100.0 |
| MEAN            | 42.3  | 42.9  | 45.9  | 49.0  | 54.4  | 60.3  | 65.0  | 65.5  | 62.6  | 56.0  | 47.5  | 41.6  | 52.8  |
| SD              | 7.47  | 6.36  | 5.90  | 5.03  | 5.07  | 5.06  | 5.43  | 4.84  | 5.69  | 5.69  | 6.37  | 7.23  | 10.46 |
| TOTAL OBS       | 414   | 378   | 439   | 424   | 412   | 404   | 417   | 415   | 401   | 413   | 400   | 413   | 4930  |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF MEAN TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| TEMP<br>(DEG-F) | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GE 95           |       |       |       |       |       |       |       |       | .2    |       |       |       | .0    |
| GE 90           |       |       |       |       |       | .2    | 2.4   | .7    | .2    |       |       |       | .3    |
| GE 85           |       |       |       |       |       | 2.5   | 13.2  | 14.5  | 3.7   |       |       |       | 2.8   |
| GE 80           |       |       |       |       | 1.9   | 15.6  | 47.2  | 51.3  | 23.2  | 1.0   |       |       | 11.7  |
| GE 75           |       |       |       |       | 11.2  | 41.1  | 83.0  | 84.8  | 49.9  | 6.1   |       |       | 23.0  |
| GE 70           |       |       | .5    | 1.4   | 33.5  | 70.3  | 99.3  | 99.3  | 84.0  | 27.1  | .5    |       | 34.6  |
| GE 65           | .2    | .8    | 2.3   | 14.4  | 59.2  | 90.8  | 100.0 | 100.0 | 96.3  | 67.8  | 6.8   |       | 44.8  |
| GE 60           | 3.6   | 4.8   | 21.0  | 52.4  | 89.6  | 99.8  |       |       | 100.0 | 92.5  | 26.8  | 2.4   | 57.8  |
| GE 55           | 24.9  | 32.8  | 56.3  | 84.7  | 99.3  | 100.0 |       |       |       | 98.1  | 65.0  | 22.3  | 73.8  |
| GE 50           | 61.6  | 72.5  | 88.8  | 98.3  | 100.0 |       |       |       |       | 100.0 | 90.8  | 55.7  | 89.1  |
| GE 45           | 88.6  | 92.9  | 99.3  | 99.8  |       |       |       |       |       |       | 99.0  | 86.0  | 97.2  |
| GE 40           | 99.0  | 99.7  | 100.0 | 100.0 |       |       |       |       |       |       | 100.0 | 98.1  | 99.7  |
| GE 35           | 100.0 | 100.0 |       |       |       |       |       |       |       |       |       | 99.5  | 100.0 |
| GE 33           |       |       |       |       |       |       |       |       |       |       |       | 100.0 | 100.0 |
| GE 30           |       |       |       |       |       |       |       |       |       |       |       |       |       |
| MEAN            | 51.0  | 52.2  | 55.4  | 59.6  | 66.7  | 73.0  | 79.3  | 79.7  | 74.9  | 66.6  | 56.4  | 50.2  | 63.8  |
| SD              | 5.07  | 4.76  | 4.78  | 4.79  | 6.07  | 6.10  | 4.75  | 4.48  | 5.68  | 5.29  | 5.19  | 5.24  | 11.78 |
| TOTAL OBS       | 414   | 378   | 439   | 424   | 412   | 404   | 417   | 415   | 401   | 413   | 400   | 413   | 4930  |

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR      | JAN | FEB | MAR | APR | MAY | JUN | JUL  | AUG  | SEP  | OCT | NOV | DEC | ANNUAL |
|-----------|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|--------|
| 58        |     |     | 78  | 89  | 95  | 94  | 110  | 103  | 96   | 92  | 83  | 70  | 110*   |
| 59        | 81  | 69  | 73  | 79  | 94  | 97  | 107  | 101  | 97   | 90  | 79  | 67  | 107    |
| 60        | 74  | 82  | 80  | 82  | 96  | 105 | 104  | 100  | 100  | 79  | 71  | 65  | 105    |
| 61        | 64  | 77  | 84  | 85  | 98  | 98  | 101  | 104  | 97   | 89  | 77  | 72  | 104    |
| 62        | 71  | 71  | 66  | 82  | 94  | 97  | 103  | 109  | 103  | 92  | 72  | 69  | 109    |
| 63        | 65  | 62  | 70  | 79  | 86  | 98  | 99   | 104  | 97   | 92  | 76  | 65  | 104    |
| 64        | 67  | 68  | 76  | 88  | 96  | 101 | 103  | 103  | 103  | 91  | 75  | 67  | 103    |
| 65        | 68  | 68  | 80  | 85  | 97  | 108 | 100  | 111  | 97   | 84  | 73  | 65  | 111    |
| 66        | 67  | 70  | 75  | 80  | 90  | 104 | 104  | 104  | 102  | 84  | 68  | 67  | 104    |
| 67        | 66  | 72  | 78  | 83  | 97  | 97  | 112  | 102  | 93   | 90  | 73  | 65  | 112    |
| 68        | 70  | 72  | 76  | 79  | 92  | 108 | 106  | 106  | 99   | 88  | 76  | 67  | 108    |
| 69        | 67  | 65  | 71  | 83  | 86  | 97  | 103  | 103  | 86   | 85  | 77  | 61  | 103    |
| 70        | 66  | 70  | 75* | 85* | 96* | 97* | 101* | 101* | 106* | 92* | 83* | 65* | 106*   |
| 71        | 62* | 71* | 71* | 71* | 78* | 95* | 104* | 98*  | 98*  | 93* | 77* | 66* | 104*   |
| 72        | 62* | 62* | 7*  | 80* |     |     |      |      |      |     |     |     | 80*    |
| GREATEST  | 81  | 82  | 84  | 89  | 98  | 108 | 112  | 111  | 106  | 93  | 83  | 72  | 112    |
| TOTAL OBS | 414 | 378 | 439 | 424 | 412 | 404 | 417  | 415  | 401  | 413 | 400 | 413 | 4930   |

THE GREATEST VALUE OF 112 OCCURRED ON 07/20/67

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
UAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR      | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 58        |     |     | 35  | 36  | 48  | 52  | 56  | 55  | 59  | 47  | 40  | 40  | 35*    |
| 59        | 35  | 38  | 40  | 43  | 47  | 53  | 61  | 60  | 58  | 42  | 40  | 34  | 34     |
| 60        | 29  | 32  | 44  | 44  | 51  | 58  | 58  | 59  | 54  | 47  | 41  | 33  | 29     |
| 61        | 34  | 41  | 42  | 48  | 53  | 53  | 61  | 62  | 55  | 43  | 40  | 39  | 34     |
| 62        | 38  | 35  | 40  | 46  | 46  | 52  | 55  | 58  | 50  | 50  | 32  | 23  | 23     |
| 63        | 30  | 30  | 35  | 40  | 48  | 51  | 52  | 55  | 54  | 50  | 39  | 35  | 30     |
| 64        | 31  | 30  | 39  | 37  | 51  | 52  | 57  | 56  | 57  | 37  | 35  | 27  | 27     |
| 65        | 27  | 27  | 33  | 39  | 47  | 50  | 54  | 55  | 49  | 51  | 38  | 33  | 27     |
| 66        | 36  | 37  | 35  | 42  | 42  | 48  | 57  | 55  | 55  | 38  | 30  | 28  | 28     |
| 67        | 26  | 34  | 32  | 35  | 45  | 50  | 55  | 53  | 49  | 43  | 34  | 21  | 21     |
| 68        | 25  | 26  | 33  | 34  | 41  | 51  | 55  | 54  | 47  | 48  | 39  | 30  | 25     |
| 69        | 27  | 30  | 35  | 39  | 44  | 46  | 59  | 56  | 48  | 44  | 36  | 26  | 26     |
| 70        | 33  | 28  | 30* | 33* | 42* | 57* | 67* | 67* | 61* | 47* | 42* | 29* | 28*    |
| 71        | 33* | 33* | 35* | 46* | 51* | 53* | 66* | 62* | 62* | 53* | 33* | 30* | 30*    |
| 72        | 28* | 35* | 35* | 46* |     |     |     |     |     |     |     |     | 28*    |
| LEAST     | 25  | 26  | 30  | 33  | 41  | 46  | 52  | 53  | 47  | 37  | 30  | 21  | 21     |
| TOTAL OBS | 414 | 378 | 439 | 424 | 412 | 404 | 417 | 415 | 401 | 413 | 400 | 413 | 4930   |

THE LEAST VALUE OF 21 OCCURRED ON 12/12/67

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION 'A'  
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: -01

PERIOD OF RECORD: 5803-7204  
MONTH: ALL HOURS: ALL

| YEAR      | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ANNUAL |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 58        |      |      | 57   | 59   | 68   | 72   | 79   | 79   | 77   | 68   | 58   | 55   | 67*    |
| 59        | 56   | 52   | 56   | 60   | 64   | 74   | 80   | 80   | 74   | 66   | 58   | 53   | 65     |
| 60        | 51   | 55   | 58   | 63   | 69   | 77   | 80   | 78   | 75   | 63   | 59   | 49   | 65     |
| 61        | 50   | 58   | 61   | 62   | 71   | 75   | 31   | 83   | 76   | 66   | 57   | 56   | 67     |
| 62        | 54   | 53   | 55   | 61   | 67   | 73   | 78   | 83   | 79   | 70   | 53   | 50   | 65     |
| 63        | 52   | 49   | 54   | 59   | 65   | 71   | 79   | 78   | 73   | 69   | 60   | 54   | 64     |
| 64        | 52   | 53   | 55   | 58   | 71   | 74   | 79   | 80   | 80   | 64   | 55   | 47   | 64     |
| 65        | 48   | 49   | 56   | 60   | 70   | 76   | 75   | 80   | 70   | 66   | 56   | 51   | 63     |
| 66        | 54   | 54   | 54   | 60   | 69   | 74   | 78   | 79   | 75   | 63   | 50   | 48   | 63     |
| 67        | 47   | 52   | 57   | 57   | 64   | 70   | 78   | 78   | 72   | 66   | 56   | 45   | 62     |
| 68        | 46   | 52   | 53   | 58   | 64   | 73   | 79   | 78   | 73   | 68   | 57   | 50   | 62     |
| 69        | 52   | 50   | 54   | 58   | 63   | 70   | 79   | 79   | 69   | 66   | 55   | 46   | 62     |
| 70        | 53   | 50   | 51*  | 58*  | 66*  | 74*  | 85*  | 83*  | 82*  | 68*  | 61*  | 48*  | 64*    |
| 71        | 51*  | 52*  | 52*  | 58*  | 60*  | 69*  | 81*  | 79*  | 77*  | 74*  | 56*  | 50*  | 63*    |
| 72        | 48*  | 52*  | 54*  | 62*  |      |      |      |      |      |      |      |      | 54*    |
| MEAN      | 51.0 | 52.2 | 55.4 | 59.6 | 66.7 | 73.0 | 79.3 | 79.7 | 74.9 | 66.6 | 56.4 | 50.2 | 63.8   |
| TOTAL OBS | 414  | 378  | 439  | 424  | 412  | 404  | 417  | 415  | 401  | 413  | 400  | 413  | 4930   |

NOTE: \*THE VALUE IS BASED ON A MONTH WITH LESS THAN 90% OF THE DATA AVAILABLE FOR THE MONTH

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0                                         | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 41.4 | 7.595                 | 492          | 0                                            | 53    | 0     | 0     | 0     | 492            |
| 09-11        | 44.5 | 7.386                 | 1149         | 0                                            | 66    | 0     | 0     | 0     | 1149           |
| 12-14        | 54.2 | 5.231                 | 1132         | 0                                            | 0     | 13    | 0     | 0     | 1132           |
| 15-17        | 58.6 | 5.089                 | 1070         | 0                                            | 0     | 87    | 0     | 0     | 1070           |
| 18-20        | 56.7 | 4.887                 | 609          | 0                                            | 0     | 27    | 0     | 0     | 609            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 51.7 | 8.800                 | 4452         | 0                                            | 119   | 127   | 0     | 0     | 4452           |

MONTH: FEB

|              |      |       |      |   |    |     |   |   |      |
|--------------|------|-------|------|---|----|-----|---|---|------|
| 00-02        | .0   | .000  | 0    | 0 | 0  | 0   | 0 | 0 | 0    |
| 03-05        | .0   | .000  | 0    | 0 | 0  | 0   | 0 | 0 | 0    |
| 06-08        | 43.7 | 7.006 | 475  | 0 | 33 | 0   | 0 | 0 | 475  |
| 09-11        | 47.8 | 6.737 | 1034 | 0 | 19 | 0   | 0 | 0 | 1034 |
| 12-14        | 56.8 | 5.120 | 1062 | 0 | 0  | 42  | 0 | 0 | 1062 |
| 15-17        | 60.3 | 5.421 | 1011 | 0 | 0  | 183 | 0 | 0 | 1011 |
| 18-20        | 59.1 | 5.388 | 664  | 0 | 0  | 81  | 0 | 0 | 664  |
| 21-23        | .0   | .000  | 0    | 0 | 0  | 0   | 0 | 0 | 0    |
| ALL<br>HOURS | 54.3 | 8.478 | 4246 | 0 | 52 | 306 | 0 | 0 | 4246 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0                                         | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 44.8 | 5.617                 | 540          | 0                                            | 3     | 0     | 0     | 0     | 540            |
| 09-11        | 52.0 | 5.967                 | 1115         | 0                                            | 0     | 15    | 0     | 0     | 1115           |
| 12-14        | 61.7 | 6.001                 | 1153         | 0                                            | 0     | 299   | 5     | 0     | 1153           |
| 15-17        | 65.4 | 6.854                 | 1032         | 0                                            | 0     | 513   | 14    | 0     | 1032           |
| 18-20        | 64.7 | 7.060                 | 739          | 0                                            | 0     | 336   | 15    | 0     | 739            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 58.7 | 9.585                 | 4579         | 0                                            | 3     | 1163  | 34    | 0     | 4579           |

MONTH: APR

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0                                         | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 49.1 | 5.235                 | 690          | 0                                            | 0     | 2     | 0     | 0     | 690            |
| 09-11        | 57.3 | 5.870                 | 1176         | 0                                            | 0     | 112   | 0     | 0     | 1176           |
| 12-14        | 64.6 | 6.751                 | 1080         | 0                                            | 0     | 479   | 21    | 0     | 1080           |
| 15-17        | 67.5 | 7.497                 | 1132         | 0                                            | 0     | 656   | 70    | 0     | 1132           |
| 18-20        | 66.4 | 7.513                 | 769          | 0                                            | 0     | 405   | 36    | 0     | 769            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 61.6 | 9.245                 | 4847         | 0                                            | 0     | 1654  | 127   | 0     | 4847           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY

| HOURLS<br>LST | MLAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|---------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|               |      |                       |              | LE 0                                         | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02         | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05         | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08         | 54.2 | 4.946                 | 727          | 0                                            | 0     | 7     | 0     | 0     | 727            |
| 09-11         | 63.8 | 6.162                 | 1181         | 0                                            | 0     | 462   | 9     | 0     | 1181           |
| 12-14         | 71.1 | 7.259                 | 1106         | 0                                            | 0     | 867   | 163   | 0     | 1106           |
| 15-17         | 74.2 | 8.016                 | 1110         | 0                                            | 0     | 967   | 264   | 10    | 1110           |
| 18-20         | 73.0 | 8.061                 | 769          | 0                                            | 0     | 635   | 155   | 4     | 769            |
| 21-23         | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS  | 67.9 | 9.833                 | 4893         | 0                                            | 0     | 2938  | 591   | 14    | 4893           |

MONTH: JUN

| HOURLS<br>LST | MLAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | LE 0 | LE 32 | GE 65 | GE 80 | GE 93 | TOTAL<br>HOURS |
|---------------|------|-----------------------|--------------|------|-------|-------|-------|-------|----------------|
| 00-02         | .0   | .000                  | 0            | 0    | 0     | 0     | 0     | 0     | 0              |
| 03-05         | .0   | .000                  | 0            | 0    | 0     | 0     | 0     | 0     | 0              |
| 06-08         | 61.7 | 5.025                 | 684          | 0    | 0     | 170   | 0     | 0     | 684            |
| 09-11         | 71.7 | 6.556                 | 1092         | 0    | 0     | 926   | 154   | 1     | 1092           |
| 12-14         | 79.9 | 7.772                 | 1019         | 0    | 0     | 992   | 512   | 52    | 1019           |
| 15-17         | 84.4 | 8.403                 | 981          | 0    | 0     | 971   | 705   | 171   | 981            |
| 18-20         | 83.2 | 8.711                 | 681          | 0    | 0     | 666   | 443   | 96    | 681            |
| 21-23         | .0   | .000                  | 0            | 0    | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS  | 76.6 | 10.876                | 4457         | 0    | 0     | 3725  | 1814  | 320   | 4457           |

E

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0                                         | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 66.0 | 4.482                 | 730          | 0                                            | 0     | 415   | 0     | 0     | 730            |
| 09-11        | 77.0 | 6.469                 | 1165         | 0                                            | 0     | 1136  | 397   | 12    | 1165           |
| 12-14        | 86.6 | 7.238                 | 1070         | 0                                            | 0     | 1070  | 876   | 226   | 1070           |
| 15-17        | 91.7 | 7.342                 | 1079         | 0                                            | 0     | 1079  | 1011  | 523   | 1079           |
| 18-20        | 90.7 | 7.466                 | 762          | 0                                            | 0     | 762   | 699   | 342   | 762            |
| 21-23        | .0   | .000                  | 0            |                                              | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 82.9 | 11.279                | 4806         | 0                                            | 0     | 4462  | 2983  | 1103  | 4806           |

MONTH: AUG

|              |      |        |      |   |   |      |      |      |      |
|--------------|------|--------|------|---|---|------|------|------|------|
| 00-02        | .0   | .000   | 0    | 0 | 0 | 0    | 0    | 0    | 0    |
| 03-05        | .0   | .000   | 0    | 0 | 0 | 0    | 0    | 0    | 0    |
| 06-08        | 66.8 | 4.118  | 774  | 0 | 0 | 511  | 3    | 0    | 774  |
| 09-11        | 77.0 | 6.014  | 1185 | 0 | 0 | 1166 | 376  | 13   | 1185 |
| 12-14        | 86.6 | 6.574  | 1124 | 0 | 0 | 1124 | 956  | 199  | 1124 |
| 15-17        | 91.3 | 6.834  | 1150 | 0 | 0 | 1150 | 1081 | 529  | 1150 |
| 18-20        | 90.2 | 6.930  | 814  | 0 | 0 | 814  | 754  | 325  | 814  |
| 21-23        | .0   | .000   | 0    | 0 | 0 | 0    | 0    | 0    | 0    |
| ALL<br>HOURS | 83.0 | 10.741 | 5047 | 0 | 0 | 4765 | 3170 | 1066 | 5047 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN

PERIOD OF RECORD: NOV 74 - OCT 89

LST TO UTC: - 1

MONTH: SEP

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0                                         | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 64.0 | 5.304                 | 653          | 0                                            | 0     | 302   | 2     | 0     | 653            |
| 09-11        | 73.4 | 6.535                 | 1068         | 0                                            | 0     | 970   | 183   | 1     | 1068           |
| 12-14        | 83.2 | 7.182                 | 990          | 0                                            | 0     | 985   | 672   | 101   | 990            |
| 15-17        | 87.8 | 7.539                 | 1046         | 0                                            | 0     | 1042  | 883   | 312   | 1046           |
| 18-20        | 85.8 | 7.655                 | 731          | 0                                            | 0     | 728   | 565   | 164   | 731            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 79.6 | 10.828                | 4488         | 0                                            | 0     | 4027  | 2305  | 578   | 4488           |

MONTH: OCT

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0                                         | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 56.2 | 6.285                 | 588          | 0                                            | 0     | 38    | 0     | 0     | 588            |
| 09-11        | 63.1 | 7.040                 | 1131         | 0                                            | 0     | 422   | 10    | 0     | 1131           |
| 12-14        | 72.6 | 7.172                 | 1126         | 0                                            | 0     | 957   | 203   | 1     | 1126           |
| 15-17        | 76.5 | 7.615                 | 1036         | 0                                            | 0     | 960   | 371   | 7     | 1036           |
| 18-20        | 74.5 | 7.641                 | 735          | 0                                            | 0     | 646   | 200   | 2     | 735            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 69.4 | 10.103                | 4616         | 0                                            | 0     | 3023  | 784   | 10    | 4616           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN | NUMBER OF HOURS WITH TEMPERATURES DEG F | TOTAL |       |       |       |
|--------------|------|-----------------------|--------------|------|-----------------------------------------|-------|-------|-------|-------|
|              |      |                       |              | LE 0 | LE 32                                   | GE 65 | GE 80 | GE 93 | HOURS |
| 00-02        | .0   | .000                  | 0            | 0    | 0                                       | 0     | 0     | 0     | 0     |
| 03-05        | .0   | .000                  | 0            | 0    | 0                                       | 0     | 0     | 0     | 0     |
| 06-08        | 48.9 | 7.477                 | 538          | 0    | 8                                       | 5     | 0     | 0     | 538   |
| 09-11        | 52.7 | 7.485                 | 1106         | 0    | 5                                       | 39    | 0     | 0     | 1106  |
| 12-14        | 62.4 | 6.205                 | 1096         | 0    | 0                                       | 345   | 3     | 0     | 1096  |
| 15-17        | 65.9 | 6.194                 | 1041         | 0    | 0                                       | 538   | 24    | 0     | 1041  |
| 18-20        | 63.3 | 5.842                 | 622          | 0    | 0                                       | 223   | 2     | 0     | 622   |
| 21-23        | .0   | .000                  | 0            | 0    | 0                                       | 0     | 0     | 0     | 0     |
| ALL<br>HOURS | 59.3 | 9.104                 | 4403         | 0    | 13                                      | 1150  | 29    | 0     | 4403  |

MONTH: DEC

|              |      |       |      |   |    |     |   |   |      |
|--------------|------|-------|------|---|----|-----|---|---|------|
| 00-02        | .0   | .000  | 0    | 0 | 0  | 0   | 0 | 0 | 0    |
| 03-05        | .0   | .000  | 0    | 0 | 0  | 0   | 0 | 0 | 0    |
| 06-08        | 44.4 | 7.890 | 459  | 0 | 23 | 0   | 0 | 0 | 459  |
| 09-11        | 47.1 | 7.818 | 1081 | 0 | 34 | 0   | 0 | 0 | 1081 |
| 12-14        | 56.4 | 5.708 | 1120 | 0 | 0  | 45  | 0 | 0 | 1120 |
| 15-17        | 60.2 | 5.240 | 1017 | 0 | 0  | 168 | 0 | 0 | 1017 |
| 18-20        | 57.0 | 4.795 | 546  | 0 | 0  | 20  | 0 | 0 | 546  |
| 21-23        | .0   | .000  | 0    | 0 | 0  | 0   | 0 | 0 | 0    |
| ALL<br>HOURS | 53.7 | 8.693 | 4223 | 0 | 57 | 233 | 0 | 0 | 4223 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: ALL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 0                                         | LE 32 | GE 65 | GE 80 | GE 93 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 54.7 | 10.656                | 7350         | 0                                            | 120   | 1450  | 5     | 0     | 7350           |
| 09-11        | 60.8 | 13.338                | 13483        | 0                                            | 124   | 5248  | 1129  | 27    | 13483          |
| 12-14        | 69.5 | 13.239                | 13078        | 0                                            | 0     | 7218  | 3411  | 579   | 13078          |
| 15-17        | 73.8 | 13.839                | 12705        | 0                                            | 0     | 8314  | 4423  | 1552  | 12705          |
| 18-20        | 73.0 | 14.042                | 8441         | 0                                            | 0     | 5343  | 2869  | 933   | 8441           |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 66.9 | 14.897                | 55057        | 0                                            | 244   | 27573 | 11837 | 3091  | 55057          |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32                                        | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 40.1 | 7.501                 | 487          | 72                                           | 67    | 0     | 0     | 0     | 487            |
| 09-11        | 42.5 | 7.175                 | 1145         | 93                                           | 224   | 0     | 0     | 0     | 1145           |
| 12-14        | 48.8 | 4.923                 | 1124         | 6                                            | 544   | 0     | 0     | 0     | 1124           |
| 15-17        | 51.0 | 4.365                 | 1063         | 2                                            | 756   | 0     | 0     | 0     | 1063           |
| 18-20        | 50.2 | 4.330                 | 604          | 1                                            | 386   | 0     | 0     | 0     | 604            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 46.9 | 7.044                 | 4423         | 174                                          | 1977  | 0     | 0     | 0     | 4423           |

MONTH: FEB

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32                                        | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 42.5 | 6.934                 | 474          | 40                                           | 70    | 0     | 0     | 0     | 474            |
| 09-11        | 45.4 | 6.550                 | 1031         | 30                                           | 300   | 0     | 0     | 0     | 1031           |
| 12-14        | 50.9 | 4.832                 | 1058         | 0                                            | 712   | 0     | 0     | 0     | 1058           |
| 15-17        | 52.2 | 4.821                 | 1005         | 0                                            | 754   | 1     | 0     | 0     | 1005           |
| 18-20        | 51.9 | 4.874                 | 661          | 0                                            | 479   | 0     | 0     | 0     | 661            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 49.1 | 6.581                 | 4229         | 70                                           | 2315  | 1     | 0     | 0     | 4229           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32                                        | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 43.1 | 5.621                 | 539          | 9                                            | 81    | 0     | 0     | 0     | 539            |
| 09-11        | 48.1 | 5.095                 | 1114         | 1                                            | 481   | 0     | 0     | 0     | 1114           |
| 12-14        | 53.0 | 4.589                 | 1145         | 0                                            | 885   | 0     | 0     | 0     | 1145           |
| 15-17        | 54.1 | 4.589                 | 1028         | 0                                            | 839   | 1     | 0     | 0     | 1028           |
| 18-20        | 54.1 | 4.659                 | 736          | 0                                            | 609   | 2     | 0     | 0     | 736            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 51.1 | 6.169                 | 4562         | 10                                           | 2895  | 3     | 0     | 0     | 4562           |

MONTH: APR

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32                                        | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 47.2 | 4.962                 | 687          | 0                                            | 227   | 0     | 0     | 0     | 687            |
| 09-11        | 52.1 | 4.512                 | 1174         | 0                                            | 865   | 0     | 0     | 0     | 1174           |
| 12-14        | 55.1 | 4.329                 | 1076         | 0                                            | 978   | 2     | 0     | 0     | 1076           |
| 15-17        | 56.0 | 4.278                 | 1123         | 0                                            | 1046  | 10    | 0     | 0     | 1123           |
| 18-20        | 55.6 | 4.215                 | 768          | 0                                            | 717   | 5     | 0     | 0     | 768            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 53.5 | 5.388                 | 4828         | 0                                            | 3833  | 17    | 0     | 0     | 4828           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |      | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|------|----------------|
|              |      |                       |              | LE 32                                        | GE 50 | GE 67 | GE 73 | GE80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0    | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0    | 0              |
| 06-08        | 51.6 | 4.364                 | 725          | 0                                            | 501   | 0     | 0     | 0    | 725            |
| 09-11        | 56.7 | 4.053                 | 1175         | 0                                            | 1114  | 6     | 0     | 0    | 1175           |
| 12-14        | 59.2 | 4.225                 | 1103         | 0                                            | 1086  | 53    | 0     | 0    | 1103           |
| 15-17        | 60.0 | 4.344                 | 1104         | 0                                            | 1098  | 77    | 1     | 0    | 1104           |
| 18-20        | 59.8 | 4.186                 | 768          | 0                                            | 763   | 52    | 0     | 0    | 768            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0    | 0              |
| ALL<br>HOURS | 57.7 | 5.061                 | 4875         | 0                                            | 4562  | 188   | 1     | 0    | 4875           |

MONTH: JUN

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |      | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|------|----------------|
|              |      |                       |              | LE 32                                        | GE 50 | GE 67 | GE 73 | GE80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0    | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0    | 0              |
| 06-08        | 57.6 | 3.964                 | 682          | 0                                            | 661   | 1     | 0     | 0    | 682            |
| 09-11        | 62.2 | 3.548                 | 1082         | 0                                            | 1081  | 109   | 0     | 0    | 1082           |
| 12-14        | 64.8 | 4.065                 | 1012         | 0                                            | 1012  | 390   | 11    | 0    | 1012           |
| 15-17        | 66.0 | 4.313                 | 973          | 0                                            | 973   | 487   | 59    | 0    | 973            |
| 18-20        | 65.9 | 4.460                 | 675          | 0                                            | 675   | 322   | 45    | 2    | 675            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0    | 0              |
| ALL<br>HOURS | 63.5 | 4.921                 | 4424         | 0                                            | 4402  | 1309  | 115   | 2    | 4424           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AD SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32                                        | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 60.3 | 3.635                 | 720          | 0                                            | 720   | 30    | 0     | 0     | 720            |
| 09-11        | 65.1 | 3.187                 | 1159         | 0                                            | 1159  | 383   | 12    | 0     | 1159           |
| 12-14        | 67.9 | 3.576                 | 1062         | 0                                            | 1062  | 670   | 121   | 2     | 1062           |
| 15-17        | 68.8 | 3.858                 | 1071         | 0                                            | 1071  | 760   | 188   | 7     | 1071           |
| 18-20        | 68.6 | 3.945                 | 760          | 0                                            | 760   | 506   | 132   | 4     | 760            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 66.4 | 4.723                 | 4772         | 0                                            | 4772  | 2349  | 453   | 13    | 4772           |

MONTH: AUG

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32                                        | GE 50 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| 06-08        | 60.3 | 4.009                 | 763          | 0                                            | 756   | 33    | 0     | 0     | 763            |
| 09-11        | 65.1 | 3.627                 | 1178         | 0                                            | 1178  | 452   | 13    | 0     | 1178           |
| 12-14        | 68.0 | 3.638                 | 1120         | 0                                            | 1120  | 764   | 110   | 0     | 1120           |
| 15-17        | 68.9 | 3.778                 | 1144         | 0                                            | 1144  | 869   | 185   | 1     | 1144           |
| 18-20        | 68.7 | 3.691                 | 809          | 0                                            | 809   | 592   | 118   | 0     | 809            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 66.5 | 4.808                 | 5014         | 0                                            | 5007  | 2710  | 426   | 1     | 5014           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP

| HOURL.<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN<br>LE 32 | NUMBER OF HOURS<br>GE 50 | WITH TEMPERATURES<br>GE 67 | DIG F<br>GE 73 | TOTAL<br>GE 80 | HOURS |
|---------------|------|-----------------------|--------------|---------------|--------------------------|----------------------------|----------------|----------------|-------|
| 00-02         | .0   | .000                  | 0            | 0             | 0                        | 0                          | 0              | 0              | 0     |
| 03-05         | .0   | .000                  | 0            | 0             | 0                        | 0                          | 0              | 0              | 0     |
| 06-08         | 58.4 | 5.088                 | 652          | 0             | 616                      | 21                         | 0              | 0              | 652   |
| 09-11         | 63.3 | 4.255                 | 1061         | 0             | 1054                     | 259                        | 5              | 0              | 1061  |
| 12-14         | 66.6 | 3.533                 | 985          | 0             | 985                      | 569                        | 27             | 0              | 985   |
| 15-17         | 67.4 | 3.859                 | 1036         | 0             | 1036                     | 670                        | 77             | 0              | 1036  |
| 18-20         | 66.9 | 3.937                 | 730          | 0             | 730                      | 422                        | 53             | 0              | 730   |
| 21-23         | .0   | .000                  | 0            | 0             | 0                        | 0                          | 0              | 0              | 0     |
| ALL<br>HOURS  | 64.8 | 5.112                 | 4464         | 0             | 4421                     | 1941                       | 162            | 0              | 4464  |

MONTH: OCT

|              |      |       |      |   |      |     |    |   |      |
|--------------|------|-------|------|---|------|-----|----|---|------|
| 00-02        | .0   | .000  | 0    | 0 | 0    | 0   | 0  | 0 | 0    |
| 03-05        | .0   | .000  | 0    | 0 | 0    | 0   | 0  | 0 | 0    |
| 06-08        | 52.5 | 6.163 | 584  | 0 | 406  | 2   | 0  | 0 | 584  |
| 09-11        | 57.0 | 5.490 | 1125 | 0 | 1009 | 19  | 0  | 0 | 1125 |
| 12-14        | 61.4 | 4.508 | 1122 | 0 | 1114 | 132 | 6  | 0 | 1122 |
| 15-17        | 62.5 | 4.471 | 1030 | 0 | 1030 | 178 | 21 | 0 | 1030 |
| 18-20        | 61.9 | 4.560 | 734  | 0 | 733  | 109 | 9  | 0 | 734  |
| 21-23        | .0   | .000  | 0    | 0 | 0    | 0   | 0  | 0 | 0    |
| ALL<br>HOURS | 59.5 | 6.049 | 4595 | 0 | 4292 | 440 | 36 | 0 | 4595 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |      |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32                                        | GE 0 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0    | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0    | 0     | 0     | 0     | 0              |
| 06-08        | 47.0 | 7.391                 | 535          | 17                                           | 197  | 2     | 0     | 0     | 535            |
| 09-11        | 49.5 | 6.916                 | 1101         | 10                                           | 577  | 3     | 0     | 0     | 1101           |
| 12-14        | 55.0 | 5.092                 | 1094         | 0                                            | 940  | 6     | 0     | 0     | 1094           |
| 15-17        | 56.4 | 4.773                 | 1032         | 0                                            | 927  | 6     | 0     | 0     | 1032           |
| 18-20        | 55.8 | 4.939                 | 620          | 0                                            | 544  | 2     | 0     | 0     | 620            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0    | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 53.1 | 6.780                 | 4382         | 27                                           | 3185 | 19    | 0     | 0     | 4382           |

MONTH: DEC

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |      |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|------|-------|-------|-------|----------------|
|              |      |                       |              | LE 32                                        | GE 0 | GE 67 | GE 73 | GE 80 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0    | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0    | 0     | 0     | 0     | 0              |
| 06-08        | 43.0 | 7.683                 | 455          | 29                                           | 99   | 0     | 0     | 0     | 455            |
| 09-11        | 44.9 | 7.684                 | 1080         | 57                                           | 311  | 0     | 0     | 0     | 1080           |
| 12-14        | 51.0 | 5.569                 | 1115         | 1                                            | 675  | 0     | 0     | 0     | 1115           |
| 15-17        | 52.9 | 4.939                 | 1009         | 0                                            | 774  | 0     | 0     | 0     | 1009           |
| 18-20        | 51.5 | 4.988                 | 544          | 0                                            | 361  | 0     | 0     | 0     | 544            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0    | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 49.1 | 7.245                 | 4203         | 87                                           | 2220 | 0     | 0     | 0     | 4203           |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: ALL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN  | NUMBER OF HOURS WITH | TEMPERATURES DEG F | TOTAL |       |       |
|--------------|------|-----------------------|--------------|-------|----------------------|--------------------|-------|-------|-------|
|              |      |                       |              | LE 32 | GE 50                | GE 67              | GE 73 | GE 80 | HOURS |
| 00-02        | .0   | .000                  | 0            | 0     | 0                    | 0                  | 0     | 0     | 0     |
| 03-05        | .0   | .000                  | 0            | 0     | 0                    | 0                  | 0     | 0     | 0     |
| 06-08        | 51.3 | 9.049                 | 7303         | 167   | 4401                 | 89                 | 0     | 0     | 7303  |
| 09-11        | 54.4 | 9.638                 | 13425        | 191   | 9353                 | 1231               | 30    | 0     | 13425 |
| 12-14        | 58.3 | 8.149                 | 13016        | 7     | 11113                | 2586               | 275   | 2     | 13016 |
| 15-17        | 59.7 | 7.868                 | 12618        | 2     | 11448                | 3059               | 531   | 8     | 12618 |
| 18-20        | 59.7 | 7.977                 | 8409         | 1     | 7566                 | 2012               | 357   | 6     | 8409  |
| 21-23        | .0   | .000                  | 0            | 0     | 0                    | 0                  | 0     | 0     | 0     |
| ALL<br>HOURS | 57.0 | 9.093                 | 54771        | 368   | 43881                | 8977               | 1193  | 16    | 54771 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN.

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|----------------|
|              |      |                       |              | LE 27                                        | GE 37 | LE 55 | GE 65 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 06-08        | 38.3 | 8.294                 | 487          | 38                                           | 270   | 483   | 0     | 487            |
| 09-11        | 39.9 | 8.258                 | 1145         | 82                                           | 746   | 1134  | 0     | 1145           |
| 12-14        | 43.0 | 7.729                 | 1124         | 42                                           | 941   | 1107  | 0     | 1124           |
| 15-17        | 43.5 | 7.716                 | 1063         | 37                                           | 902   | 1035  | 0     | 1063           |
| 18-20        | 43.6 | 7.611                 | 604          | 24                                           | 515   | 588   | 0     | 604            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 41.9 | 8.175                 | 4423         | 223                                          | 3374  | 4347  | 0     | 4423           |

MONTH: FEB

|              |      |       |      |     |      |      |   |      |
|--------------|------|-------|------|-----|------|------|---|------|
| 00-02        | .0   | .000  | 0    | 0   | 0    | 0    | 0 | 1058 |
| 03-05        | .0   | .000  | 0    | 0   | 0    | 0    | 0 | 1058 |
| 06-08        | 41.0 | 7.617 | 474  | 19  | 341  | 463  | 0 | 1058 |
| 09-11        | 42.8 | 7.797 | 1031 | 36  | 830  | 997  | 0 | 1058 |
| 12-14        | 45.1 | 7.449 | 1058 | 27  | 914  | 1008 | 0 | 1058 |
| 15-17        | 44.4 | 8.416 | 1005 | 52  | 837  | 957  | 0 | 1058 |
| 18-20        | 44.7 | 8.563 | 661  | 36  | 555  | 631  | 0 | 1058 |
| 21-23        | .0   | .000  | 0    | 0   | 0    | 0    | 0 | 1058 |
| ALL<br>HOURS | 43.8 | 8.103 | 4229 | 170 | 3477 | 4056 | 0 | 4229 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURE: DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|----------------|
|              |      |                       |              | LE 27                                        | GE 37 | LE 55 | GE 65 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 06-08        | 41.0 | 6.626                 | 539          | 6                                            | 407   | 532   | 0     | 539            |
| 09-11        | 44.2 | 6.536                 | 1114         | 11                                           | 981   | 1092  | 0     | 1114           |
| 12-14        | 44.9 | 7.134                 | 1145         | 23                                           | 1000  | 1099  | 0     | 1145           |
| 15-17        | 43.7 | 7.440                 | 1028         | 31                                           | 865   | 989   | 0     | 1028           |
| 18-20        | 44.3 | 7.764                 | 736          | 26                                           | 633   | 706   | 0     | 736            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 43.9 | 7.245                 | 4562         | 97                                           | 3886  | 4418  | 0     | 4562           |

MONTH: APR

|              |      |       |      |    |      |      |   |      |
|--------------|------|-------|------|----|------|------|---|------|
| 00-02        | .0   | .000  | 0    | 0  | 0    | 0    | 0 | 1076 |
| 03-05        | .0   | .000  | 0    | 0  | 0    | 0    | 0 | 1076 |
| 06-08        | 45.2 | 5.818 | 687  | 3  | 638  | 674  | 0 | 1076 |
| 09-11        | 47.4 | 6.250 | 1174 | 10 | 1111 | 1108 | 0 | 1076 |
| 12-14        | 46.8 | 6.611 | 1076 | 7  | 995  | 1019 | 0 | 1076 |
| 15-17        | 46.0 | 6.965 | 1123 | 12 | 1018 | 1067 | 0 | 1076 |
| 18-20        | 46.1 | 6.767 | 768  | 8  | 700  | 723  | 0 | 1076 |
| 21-23        | .0   | .000  | 0    | 0  | 0    | 0    | 0 | 1076 |
| ALL<br>HOURS | 46.4 | 6.602 | 4828 | 40 | 4462 | 4591 | 0 | 4828 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|----------------|
|              |      |                       |              | LE 27                                        | GE 37 | LE 55 | GE 65 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 06-08        | 49.3 | 5.013                 | 725          | 2                                            | 718   | 664   | 0     | 725            |
| 09-11        | 51.1 | 5.180                 | 1175         | 2                                            | 1159  | 989   | 0     | 1175           |
| 12-14        | 50.0 | 5.901                 | 1103         | 0                                            | 1082  | 929   | 0     | 1103           |
| 15-17        | 49.0 | 6.510                 | 1104         | 1                                            | 1063  | 954   | 1     | 1104           |
| 18-20        | 49.7 | 6.197                 | 768          | 1                                            | 750   | 634   | 1     | 768            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 49.9 | 5.912                 | 4875         | 6                                            | 4772  | 4170  | 2     | 4875           |

MONTH: JUN

|              |      |       |      |   |      |      |    |      |
|--------------|------|-------|------|---|------|------|----|------|
| 00-02        | .0   | .000  | 0    | 0 | 0    | 0    | 0  | 1012 |
| 03-05        | .0   | .000  | 0    | 0 | 0    | 0    | 0  | 1012 |
| 06-08        | 54.5 | 4.676 | 682  | 0 | 681  | 396  | 1  | 1012 |
| 09-11        | 55.7 | 4.952 | 1032 | 0 | 1081 | 522  | 5  | 1012 |
| 12-14        | 54.9 | 5.874 | 1012 | 0 | 1008 | 534  | 7  | 1012 |
| 15-17        | 54.1 | 6.403 | 973  | 0 | 967  | 559  | 11 | 1012 |
| 18-20        | 54.8 | 6.437 | 675  | 1 | 672  | 370  | 20 | 1012 |
| 21-23        | .0   | .000  | 0    | 0 | 0    | 0    | 0  | 1012 |
| ALL<br>HOURS | 54.8 | 5.789 | 4424 | 1 | 4409 | 2381 | 44 | 4424 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|----------------|
|              |      |                       |              | LE 27                                        | GE 37 | LE 55 | GE 65 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 06-08        | 56.1 | 5.170                 | 720          | 0                                            | 719   | 349   | 17    | 720            |
| 09-11        | 57.5 | 5.260                 | 1159         | 0                                            | 1157  | 451   | 61    | 1159           |
| 12-14        | 56.6 | 6.170                 | 1062         | 0                                            | 1059  | 480   | 71    | 1062           |
| 15-17        | 54.6 | 7.121                 | 1071         | 0                                            | 1066  | 621   | 71    | 1071           |
| 18-20        | 55.0 | 7.295                 | 760          | 0                                            | 755   | 422   | 67    | 760            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 56.0 | 6.384                 | 4772         | 0                                            | 4756  | 2323  | 287   | 4772           |

MONTH: AUG

|              |      |       |      |   |      |      |     |      |
|--------------|------|-------|------|---|------|------|-----|------|
| 00-02        | .0   | .000  | 0    | 0 | 0    | 0    | 0   | 1120 |
| 03-05        | .0   | .000  | 0    | 0 | 0    | 0    | 0   | 1120 |
| 06-08        | 55.6 | 6.067 | 763  | 0 | 761  | 371  | 16  | 1120 |
| 09-11        | 57.4 | 6.299 | 1178 | 0 | 1172 | 419  | 83  | 1120 |
| 12-14        | 56.6 | 7.150 | 1120 | 0 | 1109 | 467  | 94  | 1120 |
| 15-17        | 55.0 | 7.805 | 1144 | 0 | 1126 | 543  | 87  | 1120 |
| 18-20        | 55.3 | 7.768 | 809  | 0 | 794  | 382  | 71  | 1120 |
| 21-23        | .0   | .000  | 0    | 0 | 0    | 0    | 0   | 1120 |
| ALL<br>HOURS | 56.1 | 7.165 | 5014 | 0 | 4962 | 2182 | 351 | 5014 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|----------------|
|              |      |                       |              | LE 27                                        | GE 37 | LE 55 | GE 65 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 06-08        | 54.1 | 6.786                 | 652          | 0                                            | 644   | 373   | 18    | 652            |
| 09-11        | 56.5 | 6.380                 | 1061         | 0                                            | 1056  | 462   | 60    | 1061           |
| 12-14        | 56.1 | 6.470                 | 985          | 0                                            | 982   | 445   | 63    | 985            |
| 15-17        | 54.4 | 7.151                 | 1036         | 1                                            | 1021  | 588   | 59    | 1036           |
| 18-20        | 54.9 | 7.266                 | 730          | 2                                            | 717   | 387   | 50    | 730            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 55.3 | 6.898                 | 4464         | 3                                            | 4420  | 2255  | 250   | 4464           |

MONTH: OCT

|              |      |       |      |   |      |      |     |      |
|--------------|------|-------|------|---|------|------|-----|------|
| 00-02        | .0   | .000  | 0    | 0 | 0    | 0    | 0   | 1122 |
| 03-05        | .0   | .000  | 0    | 0 | 0    | 0    | 0   | 1122 |
| 06-08        | 49.1 | 7.773 | 584  | 5 | 545  | 458  | 2   | 1122 |
| 09-11        | 52.1 | 7.147 | 1125 | 0 | 1090 | 749  | 9   | 1122 |
| 12-14        | 53.3 | 6.973 | 1122 | 0 | 1113 | 722  | 33  | 1122 |
| 15-17        | 52.3 | 7.932 | 1030 | 2 | 997  | 691  | 50  | 1122 |
| 18-20        | 52.6 | 7.925 | 734  | 0 | 709  | 470  | 35  | 1122 |
| 21-23        | .0   | .000  | 0    | 0 | 0    | 0    | 0   | 1122 |
| ALL<br>HOURS | 52.1 | 7.627 | 4595 | 7 | 4454 | 3090 | 129 | 4595 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|----------------|
|              |      |                       |              | LE 27                                        | GE 37 | LE 55 | GE 65 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 06-08        | 45.0 | 8.451                 | 535          | 18                                           | 458   | 486   | 3     | 535            |
| 09-11        | 46.3 | 8.124                 | 1101         | 26                                           | 971   | 969   | 4     | 1101           |
| 12-14        | 48.6 | 7.479                 | 1094         | 6                                            | 1013  | 929   | 4     | 1094           |
| 15-17        | 48.1 | 7.784                 | 1032         | 10                                           | 935   | 879   | 5     | 1032           |
| 18-20        | 49.3 | 7.753                 | 620          | 4                                            | 578   | 502   | 3     | 620            |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 47.6 | 8.016                 | 4382         | 64                                           | 3955  | 3765  | 19    | 4382           |

MONTH: DEC

|              |      |       |      |     |      |      |   |      |
|--------------|------|-------|------|-----|------|------|---|------|
| 00-02        | .0   | .000  | 0    | 0   | 0    | 0    | 0 | 1115 |
| 03-05        | .0   | .000  | 0    | 0   | 0    | 0    | 0 | 1115 |
| 06-08        | 41.4 | 8.268 | 455  | 18  | 321  | 437  | 0 | 1115 |
| 09-11        | 42.5 | 8.665 | 1080 | 51  | 806  | 1024 | 0 | 1115 |
| 12-14        | 45.6 | 8.042 | 1115 | 28  | 1000 | 993  | 0 | 1115 |
| 15-17        | 45.9 | 8.220 | 1009 | 27  | 898  | 897  | 0 | 1115 |
| 18-20        | 46.2 | 7.925 | 544  | 12  | 491  | 491  | 0 | 1115 |
| 21-23        | .0   | .000  | 0    | 0   | 0    | 0    | 0 | 1115 |
| ALL<br>HOURS | 44.5 | 8.480 | 4203 | 136 | 3516 | 3842 | 0 | 4203 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: ALL

| HOURS<br>LST | MEAN | STANDARD<br>DEVIATION | TOTAL<br>OBS | MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F |       |       |       | TOTAL<br>HOURS |
|--------------|------|-----------------------|--------------|----------------------------------------------|-------|-------|-------|----------------|
|              |      |                       |              | LE 27                                        | GE 37 | LE 55 | GE 65 |                |
| 00-02        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 03-05        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| 06-08        | 48.5 | 9.030                 | 7303         | 109                                          | 6503  | 5686  | 57    | 7303           |
| 09-11        | 49.5 | 9.201                 | 13425        | 218                                          | 12160 | 9916  | 222   | 13425          |
| 12-14        | 50.0 | 8.541                 | 13016        | 133                                          | 12216 | 9732  | 272   | 13016          |
| 15-17        | 49.3 | 8.705                 | 12618        | 173                                          | 11695 | 9780  | 284   | 12618          |
| 18-20        | 50.0 | 8.706                 | 8409         | 114                                          | 7869  | 6306  | 247   | 8409           |
| 21-23        | .0   | .000                  | 0            | 0                                            | 0     | 0     | 0     | 0              |
| ALL<br>HOURS | 49.5 | 8.849                 | 54771        | 747                                          | 50443 | 41420 | 1082  | 54771          |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |       |       |      |      |      |      |      |      | TOTAL OBS |
|--------------|--------------------------------------------|-------|-------|-------|------|------|------|------|------|------|-----------|
|              | 10%                                        | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        |                                            |       |       |       |      |      |      |      |      | .0   | 0         |
| 03-05        |                                            |       |       |       |      |      |      |      |      | .0   | 0         |
| 06-08        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.6 | 97.5 | 93.8 | 87.9 | 56.9 | 89.0 | 487       |
| 09-11        | 100.0                                      | 100.0 | 100.0 | 99.4  | 97.7 | 93.9 | 87.8 | 75.2 | 40.8 | 84.6 | 1145      |
| 12-14        | 100.0                                      | 99.8  | 98.3  | 94.6  | 86.4 | 69.5 | 48.0 | 24.4 | 7.5  | 67.7 | 1124      |
| 15-17        | 100.0                                      | 99.8  | 96.0  | 88.0  | 70.6 | 44.2 | 27.1 | 14.9 | 4.4  | 59.5 | 1063      |
| 18-20        | 100.0                                      | 99.8  | 97.4  | 89.7  | 80.3 | 57.1 | 37.4 | 20.5 | 6.0  | 63.8 | 604       |
| 21-23        |                                            |       |       |       |      |      |      |      |      | .0   | 0         |
| ALL<br>HOURS | 100.0                                      | 99.9  | 98.3  | 94.2  | 86.2 | 71.1 | 56.9 | 41.7 | 20.6 | .0   | 4423      |

MONTH: FEB

|              |       |       |       |       |      |      |      |      |      |      |      |
|--------------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 00-02        |       |       |       |       |      |      |      |      |      | .0   | 0    |
| 03-05        |       |       |       |       |      |      |      |      |      | .0   | 0    |
| 06-08        | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 98.1 | 95.1 | 89.5 | 63.3 | 90.4 | 474  |
| 09-11        | 100.0 | 100.0 | 100.0 | 99.5  | 97.8 | 93.0 | 86.0 | 73.1 | 37.7 | 83.9 | 1031 |
| 12-14        | 100.0 | 100.0 | 99.2  | 93.6  | 83.7 | 67.0 | 44.5 | 22.8 | 8.0  | 66.6 | 1058 |
| 15-17        | 100.0 | 99.4  | 94.7  | 85.9  | 67.6 | 41.9 | 26.0 | 14.1 | 5.4  | 58.3 | 1005 |
| 18-20        | 99.8  | 99.4  | 95.6  | 87.4  | 73.4 | 50.2 | 33.6 | 20.0 | 6.5  | 61.5 | 661  |
| 21-23        |       |       |       |       |      |      |      |      |      | .0   | 0    |
| ALL<br>HOURS | 100.0 | 99.8  | 97.9  | 93.0  | 83.5 | 68.2 | 54.2 | 40.0 | 20.6 | .0   | 4229 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |       |      |      |      |      |      |      |      | TOTAL OBS |
|--------------|--------------------------------------------|-------|-------|------|------|------|------|------|------|------|-----------|
|              | 10%                                        | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| 03-05        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| 06-08        | 100.0                                      | 100.0 | 100.0 | 99.6 | 99.3 | 97.6 | 93.7 | 82.9 | 45.8 | 87.1 | 539       |
| 09-11        | 100.0                                      | 100.0 | 99.3  | 98.4 | 94.3 | 84.0 | 70.6 | 47.6 | 16.5 | 76.1 | 1114      |
| 12-14        | 100.0                                      | 99.7  | 96.5  | 84.9 | 63.4 | 38.8 | 21.2 | 7.5  | 1.2  | 56.2 | 1145      |
| 15-17        | 100.0                                      | 99.5  | 88.7  | 64.2 | 40.8 | 21.8 | 11.3 | 5.4  | 1.1  | 47.9 | 1028      |
| 18-20        | 100.0                                      | 98.6  | 89.3  | 68.6 | 47.3 | 26.9 | 16.8 | 7.9  | 2.3  | 50.5 | 736       |
| 21-23        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| ALL<br>HOURS | 100.0                                      | 99.6  | 94.7  | 82.6 | 67.5 | 51.0 | 38.9 | 25.8 | 10.4 | .0   | 4562      |

MONTH: APR

|              |       |       |      |      |      |      |      |      |      |      |      |
|--------------|-------|-------|------|------|------|------|------|------|------|------|------|
| 00-02        |       |       |      |      |      |      |      |      |      | .0   | 0    |
| 03-05        |       |       |      |      |      |      |      |      |      | .0   | 0    |
| 06-08        | 100.0 | 100.0 | 99.9 | 99.3 | 98.3 | 97.2 | 93.9 | 82.7 | 47.2 | 87.1 | 687  |
| 09-11        | 100.0 | 99.8  | 98.6 | 96.1 | 90.5 | 78.2 | 59.6 | 35.2 | 9.8  | 71.6 | 1174 |
| 12-14        | 100.0 | 99.4  | 94.6 | 81.8 | 61.5 | 36.3 | 19.6 | 8.9  | 2.0  | 55.1 | 1076 |
| 15-17        | 100.0 | 98.7  | 87.4 | 67.1 | 42.0 | 23.9 | 14.3 | 7.9  | 1.9  | 49.1 | 1123 |
| 18-20        | 100.0 | 98.8  | 88.8 | 70.4 | 49.7 | 28.1 | 18.2 | 9.5  | 2.6  | 51.4 | 768  |
| 21-23        |       |       |      |      |      |      |      |      |      | .0   | 0    |
| ALL<br>HOURS | 100.0 | 99.3  | 93.7 | 82.5 | 67.4 | 51.0 | 38.5 | 25.7 | 10.4 | .0   | 4828 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |       |      |      |      |      |      |      |      | TOTAL OBS |
|--------------|--------------------------------------------|-------|-------|------|------|------|------|------|------|------|-----------|
|              | 10%                                        | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| 03-05        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| 06-08        | 100.0                                      | 100.0 | 100.0 | 99.7 | 98.2 | 97.0 | 89.8 | 73.9 | 33.1 | 84.3 | 725       |
| 09-11        | 100.0                                      | 100.0 | 99.1  | 94.3 | 84.5 | 65.5 | 39.3 | 15.6 | 3.6  | 65.0 | 1175      |
| 12-14        | 100.0                                      | 99.7  | 92.3  | 74.6 | 46.3 | 22.3 | 8.5  | 4.1  | 1.2  | 49.4 | 1103      |
| 15-17        | 100.0                                      | 98.6  | 83.1  | 56.9 | 25.5 | 12.3 | 6.7  | 4.0  | 1.3  | 43.4 | 1104      |
| 18-20        | 100.0                                      | 98.7  | 85.7  | 63.2 | 39.3 | 18.0 | 9.2  | 4.7  | 1.4  | 46.6 | 768       |
| 21-23        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| ALL<br>HOURS | 100.0                                      | 99.4  | 92.0  | 77.3 | 57.4 | 40.9 | 27.7 | 17.3 | 6.6  | .0   | 4875      |

MONTH: JUN

|              |       |       |       |      |      |      |      |      |      |      |      |
|--------------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 00-02        |       |       |       |      |      |      |      |      |      | .0   | 0    |
| 03-05        |       |       |       |      |      |      |      |      |      | .0   | 0    |
| 06-08        | 100.0 | 100.0 | 100.0 | 99.6 | 97.8 | 91.1 | 76.7 | 53.4 | 16.3 | 78.5 | 682  |
| 09-11        | 100.0 | 99.8  | 97.2  | 88.8 | 72.8 | 51.3 | 25.1 | 8.4  | 1.4  | 59.2 | 1082 |
| 12-14        | 100.0 | 97.5  | 87.5  | 62.2 | 32.8 | 11.9 | 3.6  | 1.3  | .6   | 44.3 | 1012 |
| 15-17        | 100.0 | 95.2  | 72.6  | 40.1 | 14.9 | 5.4  | 2.0  | 1.3  | .9   | 37.5 | 973  |
| 18-20        | 99.7  | 96.6  | 77.9  | 49.0 | 22.8 | 8.6  | 2.5  | 1.6  | .7   | 40.2 | 675  |
| 21-23        |       |       |       |      |      |      |      |      |      | .0   | 0    |
| ALL<br>HOURS | 100.0 | 97.8  | 87.0  | 67.6 | 47.2 | 31.8 | 19.6 | 11.1 | 3.3  | .0   | 4424 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |      |      |      |      |      |      |     | MEAN | TOTAL OBS |
|--------------|--------------------------------------------|-------|------|------|------|------|------|------|-----|------|-----------|
|              | 10%                                        | 20%   | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90% |      |           |
| 00-02        |                                            |       |      |      |      |      |      |      |     | .0   | 0         |
| 03-05        |                                            |       |      |      |      |      |      |      |     | .0   | 0         |
| 06-08        | 100.0                                      | 100.0 | 99.9 | 99.2 | 92.6 | 81.1 | 57.1 | 34.3 | 5.7 | 71.9 | 720       |
| 09-11        | 100.0                                      | 99.5  | 94.8 | 79.8 | 5.8  | 36.1 | 14.6 | 4.3  | .9  | 53.4 | 1159      |
| 12-14        | 100.0                                      | 94.9  | 73.6 | 44.0 | 17.5 | 5.0  | 1.0  | .2   |     | 38.1 | 1062      |
| 15-17        | 100.0                                      | 84.5  | 49.6 | 19.5 | 5.0  | .7   | .4   |      |     | 30.4 | 1071      |
| 18-20        | 100.0                                      | 86.8  | 53.0 | 25.9 | 8.3  | 2.0  | .4   |      |     | 32.1 | 760       |
| 21-23        |                                            |       |      |      |      |      |      |      |     | .0   | 0         |
| ALL<br>HOURS | 100.0                                      | 93.2  | 74.1 | 52.6 | 34.6 | 22.6 | 12.5 | 6.3  | 1.1 | .0   | 4772      |

MONTH: AUG

|              |       |       |      |      |      |      |      |      |     |      |      |
|--------------|-------|-------|------|------|------|------|------|------|-----|------|------|
| 00-02        |       |       |      |      |      |      |      |      |     | .0   | 0    |
| 03-05        |       |       |      |      |      |      |      |      |     | .0   | 0    |
| 06-08        | 100.0 | 100.0 | 99.5 | 98.3 | 91.3 | 75.2 | 48.5 | 22.5 | 3.0 | 68.6 | 763  |
| 09-11        | 100.0 | 99.2  | 93.6 | 80.2 | 58.7 | 35.9 | 14.8 | 3.5  | .4  | 53.2 | 1178 |
| 12-14        | 100.0 | 94.1  | 73.5 | 44.4 | 19.6 | 6.1  | 1.4  | .5   | .3  | 38.4 | 1120 |
| 15-17        | 99.5  | 85.4  | 54.4 | 23.3 | 6.9  | 2.1  | .9   | .4   | .1  | 31.6 | 1144 |
| 18-20        | 99.4  | 86.2  | 57.6 | 28.9 | 9.6  | 2.3  | .7   | .4   |     | 33.1 | 809  |
| 21-23        |       |       |      |      |      |      |      |      |     | .0   | 0    |
| ALL<br>HOURS | 99.8  | 92.9  | 75.2 | 53.7 | 35.2 | 22.1 | 11.5 | 4.5  | .6  | .0   | 5014 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |      |      |      |      |      |      |     |      | TOTAL OBS |
|--------------|--------------------------------------------|-------|------|------|------|------|------|------|-----|------|-----------|
|              | 10%                                        | 20%   | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90% | MEAN |           |
| 00-02        |                                            |       |      |      |      |      |      |      |     | .0   | 0         |
| 03-05        |                                            |       |      |      |      |      |      |      |     | .0   | 0         |
| 06-08        | 100.0                                      | 100.0 | 99.5 | 98.5 | 93.7 | 78.8 | 55.8 | 32.8 | 6.3 | 71.4 | 652       |
| 09-11        | 100.0                                      | 99.7  | 97.3 | 86.2 | 68.6 | 46.9 | 23.6 | 8.2  | 1.1 | 57.8 | 1061      |
| 12-14        | 100.0                                      | 96.2  | 79.3 | 55.8 | 28.1 | 12.6 | 2.9  | .8   | .2  | 42.0 | 985       |
| 15-17        | 99.9                                       | 91.3  | 60.1 | 31.1 | 10.3 | 4.4  | 1.9  | .7   | .3  | 34.4 | 1036      |
| 18-20        | 100.0                                      | 93.7  | 66.4 | 39.7 | 18.5 | 7.4  | 2.7  | 1.5  | .3  | 37.5 | 730       |
| 21-23        |                                            |       |      |      |      |      |      |      |     | .0   | 0         |
| ALL<br>HOURS | 100.0                                      | 96.1  | 80.0 | 60.9 | 41.6 | 27.7 | 15.3 | 7.3  | 1.3 | .0   | 4464      |

MONTH: OCT

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |       |      |      |      |      |      |      |      | TOTAL OBS |
|--------------|--------------------------------------------|-------|-------|------|------|------|------|------|------|------|-----------|
|              | 10%                                        | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| 03-05        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| 06-08        | 100.0                                      | 100.0 | 100.0 | 99.3 | 96.7 | 87.2 | 71.7 | 51.4 | 25.7 | 78.3 | 584       |
| 09-11        | 100.0                                      | 100.0 | 99.5  | 96.0 | 84.3 | 69.2 | 52.8 | 33.5 | 11.4 | 69.7 | 1125      |
| 12-14        | 100.0                                      | 99.5  | 93.7  | 75.4 | 54.9 | 37.5 | 19.1 | 8.2  | 2.0  | 53.7 | 1122      |
| 15-17        | 100.0                                      | 97.8  | 81.3  | 59.0 | 38.1 | 23.5 | 11.6 | 6.1  | 2.0  | 46.3 | 1030      |
| 18-20        | 100.0                                      | 98.2  | 84.2  | 64.2 | 47.0 | 30.7 | 18.1 | 9.4  | 3.1  | 50.0 | 734       |
| 21-23        |                                            |       |       |      |      |      |      |      |      | .0   | 0         |
| ALL<br>HOURS | 100.0                                      | 99.1  | 91.6  | 78.0 | 62.4 | 47.3 | 32.2 | 19.6 | 7.5  | .0   | 4595      |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |       |       |      |      |      |      |      |      | TOTAL OBS |
|--------------|--------------------------------------------|-------|-------|-------|------|------|------|------|------|------|-----------|
|              | 10%                                        | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  | MEAN |           |
| 00-02        |                                            |       |       |       |      |      |      |      |      | .0   | 0         |
| 03-05        |                                            |       |       |       |      |      |      |      |      | .0   | 0         |
| 06-08        | 100.0                                      | 100.0 | 100.0 | 100.0 | 99.1 | 95.5 | 89.7 | 79.4 | 49.5 | 86.8 | 535       |
| 09-11        | 100.0                                      | 100.0 | 100.0 | 98.3  | 95.2 | 89.6 | 77.7 | 60.1 | 26.4 | 79.9 | 1101      |
| 12-14        | 100.0                                      | 100.0 | 98.5  | 91.2  | 78.4 | 56.7 | 33.9 | 15.4 | 3.6  | 62.7 | 1094      |
| 15-17        | 100.0                                      | 99.5  | 94.8  | 81.3  | 59.4 | 35.9 | 19.2 | 10.0 | 3.2  | 55.2 | 1032      |
| 18-20        | 100.0                                      | 100.0 | 97.6  | 90.0  | 76.3 | 53.9 | 36.1 | 21.3 | 5.8  | 62.8 | 620       |
| 21-23        |                                            |       |       |       |      |      |      |      |      | .0   | 0         |
| ALL<br>HOURS | 100.0                                      | 99.9  | 98.1  | 91.6  | 80.4 | 64.4 | 48.6 | 34.0 | 15.2 | .0   | 4382      |

MONTH: DEC

|              |       |       |       |      |      |      |      |      |      |      |      |
|--------------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 00-02        |       |       |       |      |      |      |      |      |      | .0   | 0    |
| 03-05        |       |       |       |      |      |      |      |      |      | .0   | 0    |
| 06-08        | 100.0 | 100.0 | 100.0 | 99.8 | 99.6 | 98.9 | 96.0 | 89.2 | 57.6 | 89.5 | 455  |
| 09-11        | 100.0 | 99.9  | 99.9  | 99.4 | 98.6 | 96.1 | 89.4 | 75.1 | 37.7 | 84.8 | 1080 |
| 12-14        | 100.0 | 99.8  | 98.8  | 95.1 | 87.8 | 71.7 | 50.9 | 28.7 | 7.3  | 68.9 | 1115 |
| 15-17        | 100.0 | 99.8  | 97.1  | 89.9 | 73.6 | 49.4 | 32.2 | 16.6 | 5.2  | 61.3 | 1009 |
| 18-20        | 100.0 | 100.0 | 98.9  | 94.9 | 87.3 | 72.2 | 51.5 | 29.8 | 7.9  | 68.9 | 544  |
| 21-23        |       |       |       |      |      |      |      |      |      | .0   | 0    |
| ALL<br>HOURS | 100.0 | 99.9  | 98.8  | 95.4 | 88.4 | 75.6 | 61.3 | 44.4 | 20.1 | .0   | 4203 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: ALL

| HOURS<br>LST | RELATIVE HUMIDITY GREATER THAN OR EQUAL TO |       |      |      |      |      |      |      |      | MEAN | TOTAL OBS |
|--------------|--------------------------------------------|-------|------|------|------|------|------|------|------|------|-----------|
|              | 10%                                        | 20%   | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |      |           |
| 00-02        |                                            |       |      |      |      |      |      |      |      | .0   | 0         |
| 03-05        |                                            |       |      |      |      |      |      |      |      | .0   | 0         |
| 06-08        | 100.0                                      | 100.0 | 99.9 | 99.4 | 96.8 | 90.4 | 78.2 | 62.0 | 31.2 | 80.9 | 7303      |
| 09-11        | 100.0                                      | 99.8  | 98.2 | 92.9 | 83.3 | 69.7 | 53.0 | 36.2 | 15.4 | 69.8 | 13425     |
| 12-14        | 100.                                       | 98.4  | 90.6 | 75.1 | 55.5 | 36.7 | 21.5 | 10.4 | 2.9  | 53.8 | 13016     |
| 15-17        | 99.9                                       | 95.7  | 79.7 | 58.5 | 37.5 | 21.9 | 12.6 | 6.7  | 2.1  | 46.1 | 12618     |
| 18-20        | 99.9                                       | 96.1  | 81.6 | 62.4 | 44.3 | 27.7 | 17.4 | 9.6  | 2.8  | 48.8 | 8409      |
| 21-23        |                                            |       |      |      |      |      |      |      |      | .0   | 0         |
| ALL<br>HOURS | 100.0                                      | 98.0  | 89.8 | 76.9 | 62.0 | 47.1 | 34.1 | 22.6 | 9.5  | 58.8 | 54771     |

|          |           |          |            |            |
|----------|-----------|----------|------------|------------|
| PPPPPPPP | AAAAAA    | RRRRRRRR | TTTTTTTTTT | FFFFFFFFFF |
| PPPPPPPP | AAAAAAA   | RRRRRRRR | TTTTTTTTTT | FFFFFFFFFF |
| PP PP    | AA AA     | RR RR    | TT         | FF         |
| PP PP    | AA AA     | RR RR    | TT         | FF         |
| PPPPPPPP | AA AA     | RRRRRRRR | TT         | FFFFFF     |
| PPPPPPPP | AAAAAAAAA | RRRRRRRR | TT         | FFFFFF     |
| PP       | AAAAAAAAA | RR RR    | TT         | FF         |
| PP       | AA AA     | RR RR    | TT         | FF         |
| PP       | AA AA     | RR RR    | TT         | FF         |
| PP       | AA AA     | RR RR    | TT         | FF         |

PART F

PRESSURE SUMMARIES

ALL PRESSURE DATA IN PART F IS TAKEN FROM HOURLY OBSERVATIONS. IT IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD SYNOPTIC REPORTING TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SEA LEVEL PRESSURE.

IN MILLIBARS, TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS. THIS SUMMARY IS NOT AVAILABLE FOR METAR REPORTING SITES.

ALTIMETER SETTING.

IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS.

STATION PRESSURE.

IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

PRESSURE CONVERSIONS ARE: 1 MILLIBAR = 0.02953 INCHES OF MERCURY (HG).

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

ALTIMETER SETTING IN INCHES  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89

| HOURS<br>(LST) | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|----------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0100           | MEAN    | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   |
|                | SD      | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  |
|                | TOT OBS | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 0400           | MEAN    | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   |
|                | SD      | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  |
|                | TOT OBS | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 0700           | MEAN    | 30.21 | 30.10 | 30.10 | 29.99 | 30.01 | 30.04 | 30.02 | 30.01 | 30.05 | 30.10 | 30.09 | 30.21 | 30.06 |
|                | SD      | .245  | .207  | .177  | .151  | .101  | .076  | .069  | .067  | .084  | .110  | .193  | .225  | .154  |
|                | TOT OBS | 170   | 147   | 167   | 287   | 327   | 295   | 331   | 344   | 263   | 205   | 190   | 155   | 2881  |
| 1000           | MEAN    | 30.23 | 30.14 | 30.13 | 30.02 | 30.02 | 30.05 | 30.03 | 30.02 | 30.08 | 30.10 | 30.15 | 30.22 | 30.16 |
|                | SD      | .229  | .214  | .187  | .153  | .099  | .078  | .066  | .067  | .088  | .133  | .190  | .218  | .172  |
|                | TOT OBS | 379   | 346   | 376   | 383   | 408   | 357   | 359   | 382   | 331   | 371   | 350   | 366   | 4408  |
| 1300           | MEAN    | 30.23 | 30.14 | 30.12 | 30.00 | 30.01 | 30.03 | 30.02 | 30.00 | 30.06 | 30.09 | 30.15 | 30.22 | 30.09 |
|                | SD      | .233  | .215  | .184  | .150  | .098  | .073  | .067  | .065  | .087  | .130  | .189  | .222  | .175  |
|                | TOT OBS | 381   | 335   | 376   | 359   | 384   | 354   | 364   | 386   | 328   | 368   | 357   | 384   | 4376  |
| 1600           | MEAN    | 30.17 | 30.10 | 30.07 | 29.97 | 29.97 | 29.99 | 29.97 | 29.96 | 30.01 | 30.04 | 30.09 | 30.16 | 30.04 |
|                | SD      | .229  | .210  | .182  | .146  | .095  | .072  | .066  | .065  | .084  | .131  | .182  | .221  | .170  |
|                | TOT OBS | 373   | 353   | 351   | 380   | 367   | 327   | 352   | 385   | 322   | 335   | 344   | 340   | 4229  |
| 1900           | MEAN    | 30.21 | 30.10 | 30.06 | 29.96 | 29.96 | 29.97 | 29.96 | 29.94 | 30.00 | 30.04 | 30.08 | 30.20 | 30.03 |
|                | SD      | .242  | .214  | .175  | .139  | .097  | .072  | .065  | .065  | .085  | .123  | .183  | .210  | .165  |
|                | TOT OBS | 245   | 288   | 343   | 372   | 386   | 317   | 361   | 371   | 335   | 319   | 253   | 199   | 3789  |
| 2200           | MEAN    | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   |
|                | SD      | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  |
|                | TOT OBS | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| ALL<br>HOURS   | MEAN    | 30.21 | 30.12 | 30.10 | 29.99 | 30.00 | 30.02 | 30.00 | 29.99 | 30.04 | 30.07 | 30.12 | 30.20 | 30.06 |
|                | SD      | .235  | .214  | .184  | .149  | .101  | .080  | .073  | .072  | .091  | .131  | .189  | .221  | .171  |
|                | TOT OBS | 1548  | 1469  | 1613  | 1781  | 1872  | 1650  | 1767  | 1868  | 1579  | 1598  | 1494  | 1444  | 19683 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

STATION PRESSURE IN INCHES  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89

| HOURS<br>(LST) | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|----------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0100           | MEAN    | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   |
|                | SD      | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  |
|                | TOT OBS | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 0400           | MEAN    | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   |
|                | SD      | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  |
|                | TOT OBS | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 0700           | MEAN    | 29.88 | 29.78 | 29.76 | 29.67 | 29.69 | 29.72 | 29.70 | 29.69 | 29.73 | 29.79 | 29.79 | 29.89 | 29.74 |
|                | SD      | .247  | .204  | .172  | .141  | .100  | .076  | .068  | .067  | .087  | .113  | .197  | .231  | .153  |
|                | TOT OBS | 176   | 149   | 166   | 298   | 322   | 296   | 340   | 337   | 255   | 207   | 187   | 149   | 2882  |
| 1000           | MEAN    | 29.91 | 29.82 | 29.81 | 29.70 | 29.70 | 29.73 | 29.71 | 29.70 | 29.76 | 29.78 | 29.83 | 29.90 | 29.78 |
|                | SD      | .228  | .212  | .185  | .151  | .099  | .078  | .067  | .068  | .089  | .132  | .188  | .215  | .171  |
|                | TOT OBS | 378   | 343   | 375   | 383   | 408   | 357   | 359   | 381   | 331   | 372   | 349   | 372   | 4408  |
| 1300           | MEAN    | 29.91 | 29.82 | 29.80 | 29.68 | 29.69 | 29.71 | 29.70 | 29.68 | 29.74 | 29.77 | 29.83 | 29.93 | 29.77 |
|                | D       | .231  | .213  | .182  | .149  | .098  | .073  | .068  | .066  | .087  | .129  | .187  | .220  | .174  |
|                | TOT OBS | 381   | 335   | 376   | 359   | 384   | 354   | 364   | 386   | 328   | 368   | 357   | 384   | 4376  |
| 1600           | MEAN    | 29.85 | 29.78 | 29.75 | 29.65 | 29.66 | 29.67 | 29.66 | 29.64 | 29.69 | 29.72 | 29.77 | 29.84 | 29.72 |
|                | SD      | .228  | .208  | .180  | .144  | .093  | .072  | .066  | .066  | .084  | .130  | .180  | .219  | .168  |
|                | TOT OBS | 373   | 353   | 351   | 381   | 366   | 327   | 352   | 385   | 322   | 335   | 344   | 340   | 4229  |
| 1900           | MEAN    | 29.89 | 29.78 | 29.74 | 29.64 | 29.64 | 29.65 | 29.64 | 29.62 | 29.68 | 29.72 | 29.77 | 29.88 | 29.71 |
|                | SD      | .240  | .211  | .173  | .137  | .096  | .072  | .065  | .065  | .085  | .123  | .181  | .208  | .164  |
|                | TOT OBS | 245   | 288   | 343   | 372   | 386   | 317   | 361   | 371   | 335   | 319   | 253   | 199   | 3789  |
| 2200           | MEAN    | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   | .00   |
|                | SD      | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  | .000  |
|                | TOT OBS | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| ALL<br>HOURS   | MEAN    | 29.89 | 29.80 | 29.77 | 29.67 | 29.68 | 29.70 | 29.68 | 29.67 | 29.72 | 29.76 | 29.80 | 29.88 | 29.75 |
|                | SD      | .234  | .211  | .182  | .146  | .100  | .079  | .073  | .073  | .092  | .131  | .188  | .219  | .170  |
|                | TOT OBS | 1553  | 1468  | 1611  | 1793  | 1866  | 1651  | 1776  | 1860  | 1571  | 1601  | 1490  | 1444  | 19684 |

|          |           |          |            |          |
|----------|-----------|----------|------------|----------|
| PPPPPPPP | AAAAAA    | RRRRRRRR | TTTTTTTTTT | GGGGGG   |
| PPPPPPPP | AAAAAAA   | RRRRRRRR | TTTTTTTTTT | GGGGGGGG |
| PP PP    | AA AA     | RR RR    | TT         | GG GG    |
| PP PP    | AA AA     | RR RR    | TT         | GG       |
| PPPPPPPP | AA AA     | RRRRRRRR | TT         | GG       |
| PPPPPPPP | AAAAAAAAA | RRRRRRRR | TT         | GG GGG   |
| PP       | AAAAAAAAA | RR RR    | TT         | GG GGGG  |
| PP       | AA AA     | RR RR    | TT         | GG GG    |
| PP       | AA AA     | RR RR    | TT         | GGGGGGG  |
| PP       | AA AA     | RR RR    | TT         | GGGGGG   |

PART G

CROSSWIND SUMMARY

CROSSWIND SUMMARIES.

THESE TABLES ARE CREATED FROM HOURLY AND SPECIAL OBSERVATIONS (INCLUDING PEAK GUST REMARKS). THE TABLES ARE SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY MONTH (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).

THE TABLES GIVE PERCENT OCCURRENCE FREQUENCY (POF) OF THE "CROSS-RUNWAY WIND COMPONENT" FOR THE WIND SPEED CLASSES SPECIFIED IN THE TABLE HEADINGS. THERE ARE TWO COMPONENT CATEGORIES:

THE FIRST COMPONENT IS COMPUTED FROM THE REPORTED WIND DIRECTION AND WIND SPEED FROM HOURLY RECORD OR RECORD-SPECIAL OBSERVATIONS.

THE SECOND COMPONENT IS COMPUTED FROM THE HIGHEST REPORTED WIND SPEED AND DIRECTION FROM ALL OBSERVATIONS INCLUDING REMARKS, GUSTS, AND SPECIAL OBSERVATIONS.

OBSERVATION COUNTS INCLUDE CALM WINDS.

VARIABLE WINDS ARE CONSIDERED A DIRECT CROSSWIND IF THE SPEED EQUALS OR EXCEEDS THE SPECIFIED THRESHOLD WIND SPEED VALUE(S).

A TOTAL OBSERVATION COUNT IS INCLUDED.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JAN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 5.9         | .6   |      | 494 | 7.3         | .3   |      | 1152 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 5.9         | 1.0  | .2   | 494 | 7.5         | .5   | .1   | 1152 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 12.0        | .5   |      | 1124 | 15.6        | 1.0  |      | 1062 | 12.6        | 1.1  |      | 609 |             |      |      | 0   |
| CATEGORY B  | 12.7        | 1.4  | .3   | 1124 | 16.4        | 2.1  |      | 1062 | 13.3        | 1.6  | .2   | 609 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 11.1        | .7   |      | 4441 | 11.1      | .7   |      | 4441 |
| CATEGORY B | 11.6        | 1.3  | .1   | 4441 | 11.6      | 1.3  | .1   | 4441 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: FEB

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 7.3         | .2   |      | 480 | 9.8         | 1.0  | .1   | 1039 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 7.9         | .8   |      | 480 | 10.1        | 1.2  | .4   | 1039 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 17.4        | 1.9  | .3   | 1059 | 21.3        | 3.3  | .2   | 101  | 17.6        | 2.4  |      | 664 |             |      |      | 0   |
| CATEGORY B  | 18.1        | 3.7  | .8   | 1059 | 22.1        | 4.4  | .8   | 1010 | 17.9        | 3.0  | .3   | 664 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 15.4        | 1.9  | .1   | 4252 | 15.4      | 1.9  | .1   | 4252 |
| CATEGORY B | 15.9        | 2.8  | .5   | 4252 | 15.9      | 2.8  | .5   | 4252 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 4.6         | .4   |      | 540 | 7.4         | .3   |      | 1115 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 4.6         | .4   |      | 540 | 7.8         | .4   |      | 1115 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 17.0        | 1.0  |      | 1149 | 25.8        | 2.5  | .1   | 1031 | 24.0        | 2.0  |      | 745 |             |      |      | C   |
| CATEGORY B  | 18.1        | 1.9  |      | 1149 | 27.5        | 4.1  | .5   | 1031 | 24.8        | 3.0  | .1   | 745 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 16.3        | 1.2  | .0   | 4580 | 16.3      | 1.2  | .0   | 4580 |
| CATEGORY B | 17.2        | 2.0  | .1   | 4580 | 17.2      | 2.0  | .1   | 4580 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVIL NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: APR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 5.2         |      |      | 689 | 10.4        | .3   |      | 1177 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 5.2         |      |      | 689 | 10.8        | .6   | .1   | 1177 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 21.4        | 1.7  | .1   | 1085 | 30.3        | 1.5  |      | 1138 | 32.5        | 2.1  |      | 776 |             |      |      | 0   |
| CATEGORY B  | 21.8        | 2.6  | .3   | 1085 | 31.1        | 2.6  | .1   | 1138 | 33.0        | 3.1  | .4   | 776 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 20.3        | 1.1  | .0   | 4865 | 20.3      | 1.1  | .0   | 4865 |
| CATEGORY B | 20.7        | 1.8  | .2   | 4865 | 20.7      | 1.8  | .2   | 4865 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: MAY

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 3.4         |      |      | 733 | 7.7         | .3   |      | 1186 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 3.4         | .1   |      | 733 | 8.0         | .7   |      | 1186 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 18.1        | .6   |      | 1117 | 31.3        | 1.2  | .1   | 1125 | 40.1        | .6   |      | 773 |             |      |      | 0   |
| CATEGORY B  | 19.0        | 1.8  | .1   | 1117 | 33.0        | 2.8  | .3   | 1125 | 42.2        | 1.4  | .1   | 773 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 19.9        | .6   | .0   | 4934 | 19.9      | .6   | .0   | 4934 |
| CATEGORY B | 20.9        | 1.4  | .1   | 4934 | 20.9      | 1.4  | .1   | 4934 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 1.5         |      |      | 685 | 4.7         |      |      | 1102 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 1.5         | .1   |      | 685 | 4.7         |      |      | 1102 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |     | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 18.3        | .3   |      | 1015 | 36.3        | .3   |      | 979 | 52.1        | .7   |      | 678 |             |      |      | 0   |
| CATEGORY B  | 19.4        | .4   |      | 1015 | 38.0        | 2.3  | .2   | 979 | 53.4        | 2.2  | .1   | 678 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 21.4        | .2   |      | 4459 | 21.4      | .2   |      | 4459 |
| CATEGORY B | 22.3        | 1.0  | .1   | 4459 | 22.3      | 1.0  | .1   | 4459 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: JUL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | .8          |      |      | 727 | 3.4         |      |      | 1171 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 1.1         | .1   |      | 727 | 3.5         | .2   |      | 1171 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 12.5        | .1   |      | 1071 | 34.1        | .7   |      | 1087 | 54.9        | .7   |      | 762 |             |      |      | 0   |
| CATEGORY B  | 13.4        | .3   |      | 1071 | 36.8        | 1.8  |      | 1087 | 57.2        | 2.2  |      | 762 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 20.1        | .3   |      | 4818 | 20.1      | .3   |      | 4818 |
| CATEGORY B | 21.3        | .9   |      | 4818 | 21.3      | .9   |      | 4818 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: AUG

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | .8          |      |      | 776 | 3.2         |      |      | 1192 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | .8          |      |      | 776 | 3.4         | .1   |      | 1192 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 10.5        | .2   |      | 1125 | 33.9        | .9   |      | 1161 | 52.7        | .5   |      | 816 |             |      |      | 0   |
| CATEGORY B  | 11.4        | .4   |      | 1125 | 36.0        | 2.1  |      | 1161 | 53.8        | 1.5  |      | 816 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 19.4        | .3   |      | 5070 | 19.4      | .3   |      | 5070 |
| CATEGORY B | 20.3        | .8   |      | 5070 | 20.3      | .8   |      | 5070 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: SEP

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 1.7         |      |      | 653 | 3.9         | .2   |      | 1073 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 1.7         |      |      | 653 | 4.1         | .2   |      | 1073 |

| TIME (LST)  | 1200 - 1400 |      |      |     | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|-----|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 10.9        | .2   |      | 999 | 24.8        | 1.0  |      | 1052 | 39.0        | .5   |      | 731 |             |      |      | 0   |
| CATEGORY B  | 11.3        | .9   | .1   | 999 | 26.4        | 2.0  |      | 1052 | 40.5        | 1.5  |      | 731 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 15.7        | .4   |      | 4508 | 15.7      | .4   |      | 4508 |
| CATEGORY B | 16.5        | 1.0  | .0   | 4508 | 16.5      | 1.0  | .0   | 4508 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: OCT

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 2.2         |      |      | 589 | 5.6         | .4   |      | 1123 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 2.2         | .3   |      | 589 | 6.0         | .7   | .2   | 1123 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 13.4        | .5   |      | 1128 | 18.9        | 1.5  |      | 1028 | 21.6        | 1.0  |      | 723 |             |      |      | 0   |
| CATEGORY B  | 14.1        | .8   |      | 1128 | 19.9        | 1.8  | .2   | 1028 | 22.3        | 1.0  |      | 723 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 12.6        | .7   |      | 4591 | 12.6      | .7   |      | 4591 |
| CATEGORY B | 13.2        | 1.0  | .1   | 4591 | 13.2      | 1.0  | .1   | 4591 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: NOV

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 7.5         | .4   |      | 549 | 4.9         | .3   |      | 1113 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 7.7         | .5   |      | 549 | 5.2         | .5   |      | 1113 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 13.1        | 1.0  |      | 1100 | 16.0        | .8   |      | 1047 | 11.2        | .3   |      | 626 |             |      |      | 0   |
| CATEGORY B  | 13.8        | 1.2  | .2   | 1100 | 17.3        | 1.7  | .3   | 1047 | 12.3        | .6   |      | 626 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 10.8        | .6   |      | 4435 | 10.8      | .6   |      | 4435 |
| CATEGORY B | 11.5        | 1.0  | .1   | 4435 | 11.5      | 1.0  | .1   | 4435 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN

PERIOD OF RECORD: NOV 74 - OCT 89

LST TO UTC: - 1

MONTH: DEC

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |     | 0900 - 1100 |      |      |      |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 9.5         |      |      | 462 | 7.7         | .1   |      | 1076 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 9.7         | .6   |      | 462 | 8.2         | .2   |      | 1076 |

| TIME (LST)  | 1200 - 1400 |      |      |      | 1500 - 1700 |      |      |      | 1800 - 2000 |      |      |     | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|------|-------------|------|------|------|-------------|------|------|-----|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 14.5        | .5   |      | 1120 | 17.3        | 1.0  |      | 1011 | 11.2        | .2   |      | 544 |             |      |      | 0   |
| CATEGORY B  | 15.0        | 1.9  | .2   | 1120 | 18.2        | 2.2  | .1   | 1011 | 11.8        | .7   | .2   | 544 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |      | ALL HOURS |      |      |      |
|------------|-------------|------|------|------|-----------|------|------|------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS  | GE10      | GE20 | GE30 | OBS  |
| CATEGORY A | 12.5        | .4   |      | 4213 | 12.5      | .4   |      | 4213 |
| CATEGORY B | 13.0        | 1.2  | .1   | 4213 | 13.0      | 1.2  | .1   | 4213 |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS  
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 024-204

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: NOV 74 - OCT 89  
MONTH: ALL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

| TIME (LST)  | 0000 - 0200 |      |      |     | 0300 - 0500 |      |      |     | 0600 - 0800 |      |      |      | 0900 - 1100 |      |      |       |
|-------------|-------------|------|------|-----|-------------|------|------|-----|-------------|------|------|------|-------------|------|------|-------|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS   |
| CATEGORY A  |             |      |      | 0   |             |      |      | 0   | 3.8         | .1   |      | 7377 | 6.3         | .3   | .0   | 13519 |
| CATEGORY B  |             |      |      | 0   |             |      |      | 0   | 3.9         | .3   | .0   | 7377 | 6.6         | .4   | .1   | 13519 |

| TIME (LST)  | 1200 - 1400 |      |      |       | 1500 - 1700 |      |      |       | 1800 - 2000 |      |      |      | 2100 - 2300 |      |      |     |
|-------------|-------------|------|------|-------|-------------|------|------|-------|-------------|------|------|------|-------------|------|------|-----|
| SPEED (KTS) | GE10        | GE20 | GE30 | OBS   | GE10        | GE20 | GE30 | OBS   | GE10        | GE20 | GE30 | OBS  | GE10        | GE20 | GE30 | OBS |
| CATEGORY A  | 14.9        | .7   | .0   | 13092 | 25.6        | 1.3  | .0   | 12731 | 32.1        | 1.0  |      | 8447 |             |      |      | 0   |
| CATEGORY B  | 15.7        | 1.4  | .2   | 13092 | 27.1        | 2.5  | .2   | 12731 | 33.2        | 1.9  | .1   | 8447 |             |      |      | 0   |

| TIME (LST) | 0600 - 2000 |      |      |       | ALL HOURS |      |      |       |
|------------|-------------|------|------|-------|-----------|------|------|-------|
| SPEED KTS  | GE10        | GE20 | GE30 | OBS   | GE10      | GE20 | GE30 | OBS   |
| CATEGORY A | 16.4        | .7   | .0   | 55166 | 16.4      | .7   | .0   | 55166 |
| CATEGORY B | 17.2        | 1.3  | .1   | 55166 | 17.2      | 1.3  | .1   | 55166 |

|          |           |          |            |          |          |
|----------|-----------|----------|------------|----------|----------|
| PPPPPPPP | AAAAAA    | RRRRRRRR | TTTTTTTTTT | HH       | HH       |
| PPPPPPPP | AAAAAAA   | RRRRRRRR | TTTTTTTTTT | HH       | HH       |
| PP PP    | AA AA     | RR RR    | TT         | HH       | HH       |
| PP PP    | AA AA     | RR RR    | TT         | HH       | HH       |
| PPPPPPPP | AA AA     | RRRRRRRR | TT         | HHHHHHHH | HHHHHHHH |
| PPPPPPPP | AAAAAAAAA | RRRRRRRR | TT         | HHHHHHHH | HHHHHHHH |
| PP       | AAAAAAAAA | RR RR    | TT         | HH       | HH       |
| PP       | AA AA     | RR RR    | TT         | HH       | HH       |
| PP       | AA AA     | RR RR    | TT         | HH       | HH       |
| PP       | AA AA     | RR RR    | TT         | HH       | HH       |

## PART H

### DEGREE DAY SUMMARIES

#### DEGREE DAYS.

CREATED FROM HOURLY OBSERVATIONS (MAX+MIN/2 WHEN AVAILABLE), THESE TABLES GIVE THE THE NUMBER OF DEGREE DAYS FOR EACH MONTH IN EACH YEAR OF THE AVAILABLE PERIOD OF RECORD.

INCLUDED BENEATH EACH SUMMARY ARE STATISTICS BASED ON A 30-YEAR (1951-1980) POR (IF AVAILABLE). THE 30-YEAR POR PROVIDES AWS USERS WITH A SUMMARY CONSISTENT WITH OTHER STANDARD CLIMATIC PUBLICATIONS, NOTABLY THOSE OF THE NATIONAL CLIMATIC DATA CENTER (NCDC). NOTE THAT THE 30-YEAR POR WILL CHANGE TO 1961-1990 AS SOON AS DATA FOR DECEMBER 1990 HAS BEEN PROCESSED.

MONTHS WITH NO AVAILABLE DATA AND MONTHS WITH A VALUE OF ZERO APPEAR AS BLANKS IN THESE TABLES. ASTERISKS (\*\*\*\*) DENOTE AN INCOMPLETE MONTH WITH A DAY (OR DAYS) THAT CANNOT BE CALCULATED (FILLED IN) AUTOMATICALLY.

#### HEATING DEGREE DAYS.

ONE "HEATING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE MEAN TEMPERATURE FALLS BELOW A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES\* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE ON A GIVEN DAY IS 57 DEGREES, THAT DAY IS SAID TO HAVE 8 HEATING DEGREE DAYS.

#### COOLING DEGREE DAYS.

ONE "COOLING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE TEMPERATURE RISES ABOVE A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES\* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE FOR A GIVEN DAY IS 73 DEGREES, THAT DAY IS SAID TO HAVE 8 COOLING DEGREE DAYS.

\*65 DEGREES FAHRENHEIT HAS BEEN SELECTED AS THE NATIONWIDE STANDARD "BASE TEMPERATURE" AT WHICH (AT LEAST THEORETICALLY) NO HEATING OR COOLING IS REQUIRED. IF ANOTHER BASE TEMPERATURE IS USED IN THESE TABLES, IT WAS SPECIALLY REQUESTED BY THE STATION, AND IS NOTED.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR PART TIME PERIODS.

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

HEATING DEGREE DAYS  
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 083970 STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: JAN 59 - DEC 69

| YEARS | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL | AUG | SEP  | OCT   | NOV   | DEC   | ANN  |
|-------|-------|-------|-------|-------|-------|------|-----|-----|------|-------|-------|-------|------|
| 1959  | 304   | 329   | 253   | 135   | 54    | 1    |     |     |      | 50    | 196   | 370   | 1692 |
| 1960  | 415   | 266   | 217   | 78    | 31    |      |     |     |      | 66    | 177   | 482   | 1732 |
| 1961  | 458   | 181   | 116   | 75    | 14    | 2    |     |     | 1    | 45    | 217   | 278   | 1387 |
| 1962  | 325   | 328   | 276   | 102   | 32    | 6    |     |     | 2    | 5     | 336   | 442   | 1854 |
| 1963  | 369   | 430   | 325   | 178   | 40    | 14   |     |     |      | 2     | 141   | 311   | 1810 |
| 1964  | 400   | 340   | 286   | 219   |       | 6    |     |     |      | 95    | 292   | 528   | 2166 |
| 1965  | 511   | 449   | 274   | 139   | 8     | 4    |     |     | 10   | 15    | 256   | 427   | 2093 |
| 1966  | 339   | 289   | 314   | 133   | 23    | 4    |     |     |      | 101   | 422   | 498   | 2123 |
| 1967  | 527   | 351   | 226   | 211   | 58    | 2    |     |     |      | 42    | 253   | 603   | 2273 |
| 1968  | 569   | 373   | 363   | 210   | 73    | 4    |     |     | 2    | 5     | 231   | 459   | 2289 |
| 1969  | 395   | 406   | 316   | 221   | 88    | 4    |     |     | 8    | 31    | 277   | 555   | 2301 |
| MEAN  | 419   | 340   | 269   | 154   | 38    | 4    |     |     | 2    | 41    | 254   | 450   |      |
| SD    | 87.21 | 76.92 | 66.92 | 56.05 | 27.59 | 3.74 |     |     | 3.53 | 34.82 | 78.03 | 99.91 |      |

OPERATING LOCATION "A"  
USAFETAC, ASHEVILLE NC

COOLING DEGREE DAYS  
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 083970

STATION NAME: MORON AB SPAIN  
LST TO UTC: - 1

PERIOD OF RECORD: JAN 59 - DEC 69

| YEARS | JAN | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV  | DEC | ANN  |
|-------|-----|------|------|------|-------|-------|-------|-------|-------|-------|------|-----|------|
| 1959  | 2   |      |      | 1    | 49    | 294   | 485   | 477   | 278   | 107   | 2    |     | 1695 |
| 1960  |     | 6    | 4    | 25   | 178   | 370   | 471   | 426   | 327   | 9     | 1    |     | 1817 |
| 1961  |     |      | 18   | 12   | 227   | 309   | 527   | 578   | 358   | 92    | 2    |     | 2123 |
| 1962  |     |      |      | 9    | 109   | 275   | 419   | 566   | 423   | 174   |      |     | 1975 |
| 1963  |     |      |      |      | 48    | 224   | 448   | 429   | 255   | 158   | 16   |     | 1578 |
| 1964  |     |      |      | 23   | 195   | 284   | 454   | 479   | 447   | 62    |      |     | 1944 |
| 1965  |     |      | 4    | 11   | 162   | 350   | 334   | 463   | 166   | 44    |      |     | 1534 |
| 1966  |     |      |      | 1    | 155   | 273   | 404   | 444   | 323   | 41    |      |     | 1641 |
| 1967  |     |      |      |      | 46    | 179   | 421   | 425   | 211   | 101   |      |     | 1383 |
| 1968  |     |      |      | 2    | 70    | 248   | 453   | 407   | 252   | 124   |      |     | 1556 |
| 1969  |     |      |      | 8    | 31    | 166   | 461   | 448   | 130   | 71    | 1    |     | 1316 |
| MEAN  | 0   | 0    | 2    | 8    | 115   | 270   | 443   | 467   | 288   | 89    | 2    |     |      |
| SD    | .60 | 1.81 | 5.43 | 8.95 | 70.32 | 63.58 | 49.63 | 56.35 | 99.71 | 50.47 | 4.71 |     |      |

CLIMATIC BRIEF  
(LIMITED)

MEAN WND SPD (KTS)  
@ MAX WND SPD (KTS)

D/W = MEAN NUMBER OF DAYS WITH

\*\* = INSTANTANEOUS PEAK WINDS

\* = DATA NOT AVAILABLE

WCPA = WORST CASE MAXIMUM PRESSURE ALTITUDE

# = LESS THAN 0.5 DAYS OR TRACE AS APPLICABLE

\$ = PERCENTAGE OF CALM WINDS GREATER THAN OR EQUAL TO MEAN

WIND DIRECTION



## DISTRIBUTION

2WW/DN, APO New York 09094-5000 ..... 1  
31WS/DON, APO New York 09136-5000 ..... 1  
Det 12, 31WS, APO New York 09283-5000 ..... 1  
USAFETAC/LDD, Scott AFB, IL 62225-5438 ..... 1  
OL-A, USAFETAC, Federal Building, Asheville, NC 28801-2723 ..... 1  
DTIC-FDAC, Cameron Station, Alexandria, VA 22304-6145 ..... 10