NAVAIR 50-1C-534

GUIDE TO STANDARD WEATHER SUMMARIES AND CLIMATIC SERVICES

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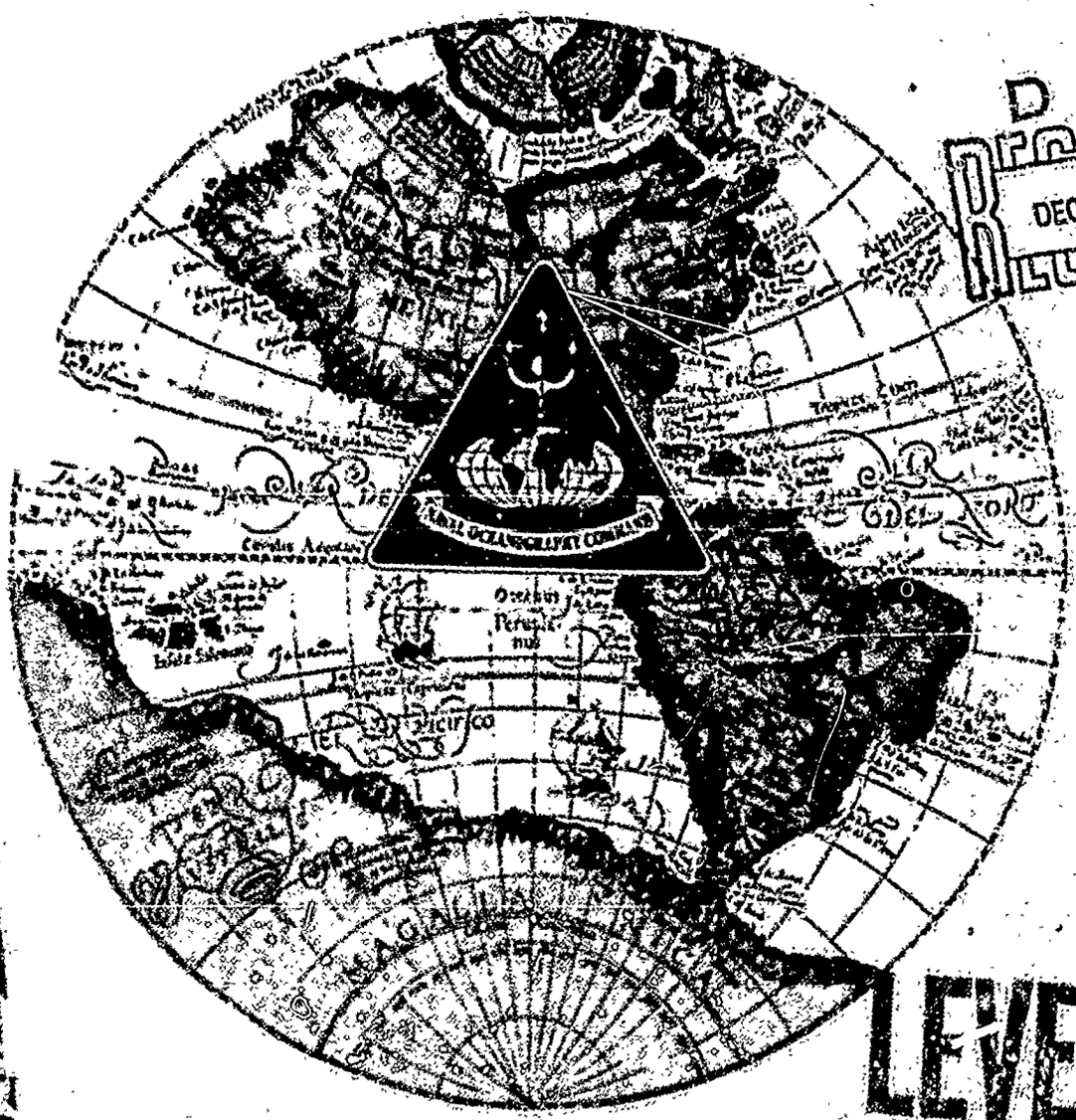

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PREPARED BY NOCD ASHEVILLE
FOR THE COMMANDER, NAVAL OCEANOGRAPHY COMMAND

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79 12 21 066

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1 REPORT NUMBER	2. GOVT ACCESSION NO.	3 RECIPIENT'S CATALOG NUMBER
4 TITLE (and Subtitle) (6) Guide to Standard Weather Summaries and Climatic Services.		5 TYPE OF REPORT & PERIOD COVERED (9) Reference Report. (6)
		6 PERFORMING ORG. REPORT NUMBER
7 AUTHOR(s) (10) J. W. Ownbey, NAVOCEANCOMDET Asheville, NC		8. CONTRACT OR GRANT NUMBER(s) (12) 209
9 PERFORMING ORGANIZATION NAME AND ADDRESS Naval Oceanography Command Detachment Federal Building Asheville, NC 28801		10 PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11 CONTROLLING OFFICE NAME AND ADDRESS (11) Commander, Naval Oceanography Command Bldg 1205 NSTL Station, MS 39529		12 REPORT DATE Jan [illegible]80 13 NUMBER OF PAGES 211
14 MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)		15 SECURITY CLASS (of this report)
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16 DISTRIBUTION STATEMENT (of this Report)

Approved for public release; distribution unlimited

(14) NAVAIR-50-1C-534

17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18 SUPPLEMENTARY NOTES

This publication replaces AD-A047 482.

19 KEY WORDS (Continue on reverse side if necessary and identify by block number)

Catalogue of "Standard" climatological summaries; world-wide.

20 ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report provides a description of published and unpublished climatological summaries available from the climatic complex in Asheville, NC. It also includes a catalogue of the available summaries on a world-wide basis in continent-country-station order.

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NOCD ASHEVILLE, NORTH CAROLINA

FOR THE COMMANDER

NAVAL OCEANOGRAPHY COMMAND

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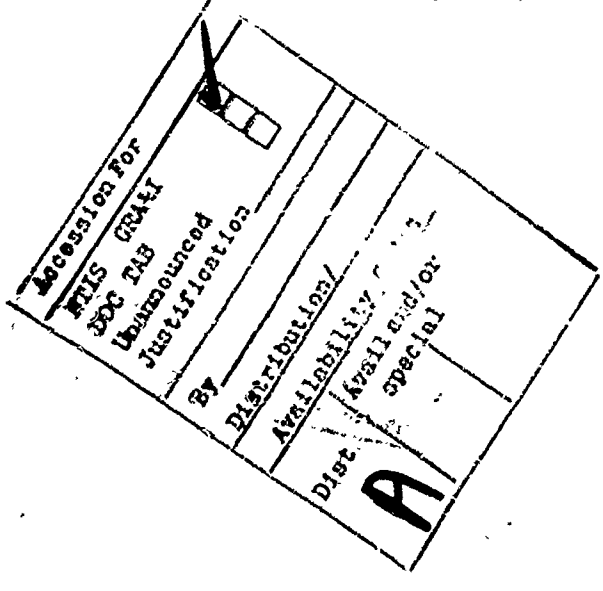

FOREWORD

The Naval Oceanography Command Detachment (NOCD), Asheville, North Carolina manages the Naval Oceanography Command climatological program at the National Climatic Center (NCC). This publication serves as an information source for potential U.S. Navy users since this climatological program is designed to provide support for all approved requirements from the fleet and shore activities of the Navy. The full scope of Naval Oceanography Command climate support to the fleet and shore activities includes the integrated resources of the Fleet Numerical Oceanography Center, the Naval Oceanographic Office and NOCD Asheville.

Part I of this publication provides a description of published and unpublished climatological summaries available from NOCD Asheville. A list of major climatic publications produced by NOCD Asheville has been included following the Introduction.

Part II of this publication is a catalogue of published and unpublished climatological summaries in continent-country-station order. There are twenty-three columns headed by a particular climatic summary or group of summaries. The availability of a climatic summary for a specific station is indicated by a number (the number of years of data used for that summary) under the summary heading. The availability of a World-wide Airfield Summary is indicated by an alphabetic character.

The Environmental Data Information Service publication Selected Guide to Climatic Data Sources (Key to Meteorological Records Documentation No. 4.11) provides an index to national climatological summaries routinely prepared by the National Climatic Center. Other useful references include U.S. Naval Weather Service Numerical Environmental Products Manual, NAVAIR 50-1G-522 and Catalog of Naval Oceanographic Office Publications, SPPUB3P. Naval activities should consult NAVAIR Allowance List, Section "L", Part 4 NAVAIR 00-35QL-22 for index numbers of NAVAIR publications.

Copies of any of the summaries listed herein or other climatological requirements can be obtained by U.S. Naval activities by submitting a request to the Commander, Naval Oceanography Command, Bldg 1205, National Space Technology Laboratories, NSTL Station, MS 39529 with a copy to NOCD Room 304, Federal Building, Asheville, NC 28801. For additional information concerning copies of historic weather records, historic weather data on magnetic tape or special climatic studies, call 704 252-7865 or FTS 672-0232. Requests from other agencies or users should be forwarded to the National Climatic Center, Federal Building, Asheville, NC 28801.

Acknowledgement

Appreciation is expressed to Mrs. J. Ray for her outstanding efforts supporting the periodic editions of this publication and to AGC McLeod for his outstanding efforts in the software modification that were necessary for this edition.

RECORD OF CHANGES

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INTRODUCTION

This publication is composed of three major parts.

Part I, Formats of Summaries

Description and examples of the formats of the climatic summaries are provided in Part I.

Part II, Station List

An index of continents/countries begins Part II. The catalogue listing of stations in continent-country-station order is the primary part of this publication. The stations (cities) are listed alphabetically within countries or geographic areas. Stations at slightly different locations but within the same city area were merged into one location in order to simplify the listing. For example, Valparaiso, Florida (30-29N 86-31W) includes Eglin AFB, Duke Field, and Pierce Field - all within a 10-15 mile radius. WMO numbers with the following symbols (# or /) were assigned for reference purposes and are not WMO assigned numbers. WBAN numbers with an * symbol, indicate more than one number has been assigned to a certain station, generally due to the change in service of personnel operating the station.

Part III, U. S. Navy Stations

A listing of all U. S. Navy and Marine Corps stations for which one or more climatic summaries is available. These stations are also included in the listing of Part II, but are provided here as a separate list for the convenience of the user.

An example of the catalogue format of Parts II and III follows:

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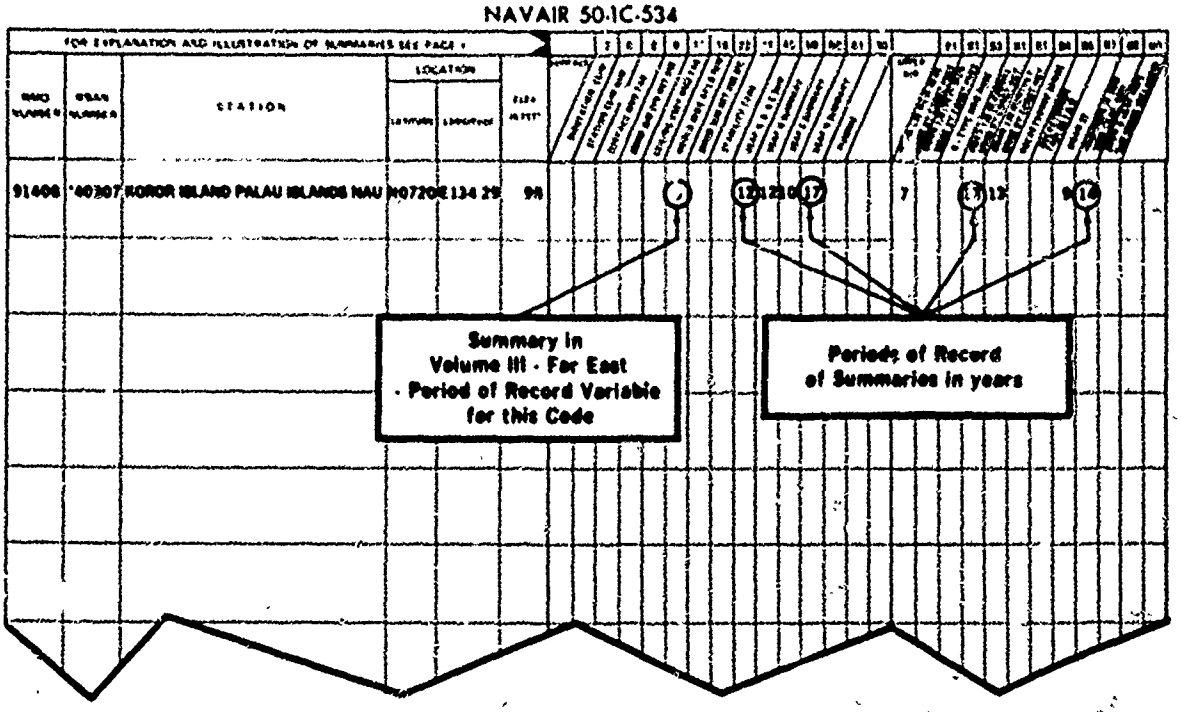

I. Climatological publications prepared for the Commander, Naval Oceanography Command by the Naval Oceanography Command Detachment, Asheville, N.C.

A. U. S. Navy Marine Climatic Atlas of the World

1. Volume I, North Atlantic Ocean (Revised December 1974), NAVAIR 50-1C-528 (GPO Stock #008-042-00064-1 $23.90)

2. Volume II, North Pacific Ocean (Revised March 1977), NAVAIR 50-1C-529 (GPO Stock #008-042-00068-3 $27.50)

3. Volume III, Indian Ocean (Revised March 1976), NAVAIR 50-1C-530 (GPO Stock #008-042-00066-7 $21.00)

4. Volume IV, South Atlantic Ocean (Revised March 1978), NAVAIR 50-1C-531 (GPO Stock #008-042-00069-1 $16.25)

5. Volume V, South Pacific Ocean (Revised October 1979), NAVAIR 50-1C-532

6. Volume VI, Arctic Ocean (February 1963), NAVWEPS 50-1C-533

7. Volume VII, Antarctic (September 1965), NAVWEPS 50-1C-50

8. Volume VIII, The World (March 1969), NAVAIR 50-1C-54

9. Volume IX, Means and Standard Deviations NAVAIR 50-1C-65 (Currently under development and is scheduled for distribution in 1a 1980)

B. Other climatological or related publications

1. State of the Sea Photographs of the Beaufort Wind Scale (July 1971) NAVAIR 50-1P-4

2. International Meteorological Codes 1974 and Worldwide Synoptic Broadcasts (January 1975) NAVAIR 50-1P-11 This publication contains information available in the following World Meteorological Organization (WMO) publications: Manual on Codes (WMO No. 306), Volume I-International Codes and Weather Reporting, (WMO No. 9) Volumes C and D. WMO publications are sold by UNIPUB Box 433, Murray Hill Station, New York, N.Y. 10016.

3. Guide to Standard Weather Summaries and Climatic Services (January 1978) NAVAIR 50-1C-534 (Also AD-A047 482)

4. Upper Wind Statistics Charts of the Northern Hemisphere

Volume I, 850, 700 & 500 mb levels (August 1959) NAVAER 50-1C-535

Volume II, 300, 200 & 100 mb levels (August 1959) NAVAER 50-1C-535

Volume III, 50 mb level (March 1962) NAVWEPS 50-1C-535

Note: A revised edition of Volumes I, II, & III is currently under development.

5. Components of the 1000 mb winds of the Northern Hemisphere (September 1966) NAVAIR 50-1C-51

6. Selected Level, Heights, Temperatures and Dew points for the Northern Hemisphere (January 1970) NAVAIR 50-1C-52

7. Climate of the Upper Air, Southern Hemisphere

   Volume I, Temperature, Dew Point and Heights (September 1969) NAVAIR 50-1C-55

   Volume II, Zonal Geostrophic Winds (May 1971) NAVAIR 50-1C-56

   Volume III, Vector Mean Geostrophic Winds (May 1971) NAVAIR 50-1C-57

   Volume IV, Selected Meridional Cross-Sections (June 1971) NAVAIR 50-1C-58

8. Selected Meridional Cross Sections of Heights, Temperatures and Dew Points of the Northern Hemisphere (June 1971) NAVAIR 50-1C-59

9. Study of Worldwide Occurrence of Fog, Thunderstorms, Supercooled Low Clouds and Freezing Temperatures (Dec 1971) NAVAIR 50-1C-60 and Change 1 (Sep 1978) (Also AD-A058-496)

10. Mariners Worldwide Climatic Guide to Tropical Storms at Sea (March 1974) NAVAIR 50-1C-61 (GPO Stock #003-019-00025-0 $13.50)

11. Climatic Summaries for Major Seventh Fleet Ports and Waters (November 1973) NAVAIR 50-1C-62 (Also AD-A026 537)

12. Climatic Summaries for Major Indian Ocean Ports and Waters (September 1974) NAVAIR 50-1C-63 (Also AD-A026 538)

13. A Climatic Résumé of the Mediterranean Sea (November 1975) NAVAIR 50-1C-64 (Also AD-A023 929)

NOTE:

Naval activities should consult NAVAIR Allowance List, Section "L" Part 4, NAVAIR 00-35QL-22 for index numbers of publications described above. Meteorological publications should be requisitioned in accordance with procedures set forth in NAVSUP 2002, Section VIII, Part C. DOD activities should submit requirements in MILSTRIP format in accordance with applicable procedures (e.g. DSA Regulation 5025.9, Army Regulation No. 310-11, Air Force Regulation No. 66-42, Marine Corps Order No. 5600.38, NAVSUP 2002, NAVSUP 437 or DODINST 4140.17M).

Non-DOD agencies or users should contact Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 to purchase items with GPO stock numbers. Items with AD or PB numbers may be purchased from the National Technical Information Service (NTIS), Springfield, VA 22161.

II. Special Marine Environmental Studies

A. The following studies were prepared by special request as approved by the Director, Naval Oceanography and Meteorology (formerly the Commander, Naval Weather Service Command).

1. Climatological Study, Southern California Operating Area (March 1971) AD-721 117

2. Northeast Atlantic Environmental Scenario (November 1973) AD-A002 067

3. Northeast Pacific Environmental Scenario (June 1974) AD-A781 673

4. Bermuda Environmental Scenario (November 1974) AD-A007 448

5. A Study of Fog and Stratus for Selected Cold Regions (December 1975) AD-A023 591

6. Climatic Study of the Near Coastal Zone, East Coast of U.S. (June 1976) AD-A024 991

7. Climatic Study of the Near Coastal Zone, West Coast of U.S. (June 1976) AD-A024 992

NOTE:

Requests for copies of particular publications for official use by Naval Units/Activities may be directed to this activity. While in print, copies of publications will be supplied from stocks on hand.

Registered, qualified users may request copies from the Defense Documentation Center, Cameron Station, Alexandria, VA 22314. Others may purchase copies from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

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CLIMATIC SUMMARIES FOR U.S. SUBSTATIONS

This climatic summary is prepared for over 1,000 substations in all states and Puerto Rico. It is published as Climatography of the U.S. No. 20. Each summary is based on a complete record for each station for the period 1951 through the latest complete year of record available at the time of preparation.

The four-page data summary for each location contains a means and extremes table; sequential tables for monthly and annual mean maximum, mean minimum and average temperature as well as total precipitation and total snowfall; monthly normals (1941-70) of temperature, precipitation, heating and cooling degree days; probability statistics for monthly precipitation, spring and fall freeze dates and freeze-free periods for five temperature thresholds.

An example of the summary format follows:

LATITUDE [illegible]
LONGITUDE [illegible]

CLIMATOLOGICAL SUMMARY

LAKE ALFRED EXP STA, FL
PERIOD AND EXTREMES FOR PERIOD 1951-1974
ELEVATION 163

MONTH	TEMPERATURE (°F) MEANS: DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	EXTREMES: RECORD HIGHEST	YEAR	DAY	RECORD LOWEST	YEAR	DAY	MEAN NUMBER OF DAYS: MAX 90 AND ABOVE	MAX 32 AND BELOW	MIN 32 AND BELOW	MIN 0 AND BELOW	PRECIPITATION TOTALS (INCHES): MEAN	GREATEST MONTHLY	YEAR	GREATEST DAILY	YEAR	DAY	SNOW, SLEET: MEAN	MAXIMUM MONTHLY	YEAR	GREATEST DEPTH	YEAR	DAY	MEAN NUMBER OF DAYS: .10 or MORE	.50 or MORE	1.00 or MORE
JAN	72.2	48.2	60.2	91+	73	3	24	68	31	0	0	3	0	2.24	6.74	66	3.30	64	18	.0						4	2	1
FEB	73.1	49.2	61.2	93	87	25	23	70	16	0	0	1	0	3.41	6.72	63	3.22	71	6	.0						5	2	1
MAR	78.0	54.2	66.1	97	74	28	32	61	9	0	0	0	0	3.82	10.76	59	4.27	60	16	.0						5	2	1
APR	83.2	59.6	71.4	96	66	23	37	62	17	3	0	0	0	2.60	9.66	51	3.13	57	11	.0						4	2	1
MAY	87.9	64.9	76.3	99+	67	19	45	71	5	12	0	0	0	4.01	11.27	57	3.30	64	1	.0						6	3	1
JUN	90.3	70.1	80.2	99+	66	16	58+	65	2	19	0	0	0	7.30	17.06	66	5.70	72	19	.6						10	4	2
JULY	91.4	71.8	81.6	99+	69	11	62	70	2	24	0	0	0	7.36	12.68	50	3.50	51	20	.0						12	5	2
AUG	91.5	72.0	81.8	99+	73	8	64+	66	14	24	0	0	0	7.21	14.90	67	4.00	55	29	.0						11	5	2
SEPT	89.5	70.5	80.1	97	62	6	55	56	27	18	0	0	0	6.48	19.44	60	9.10	60	10	.0						9	4	2
OCT	84.3	65.6	72.9	94	58	2	43+	73	25	6	0	0	0	3.34	9.11	56	3.38	52	17	.0						5	2	1
NOV	77.9	54.6	66.3	89+	71	3	28	70	23	0	0	0	0	1.93	6.82	63	4.96	51	16	.0						3	1	0
DEC	73.8	48.9	61.4	87	72	7	16	62	13	0	0	2	0	1.96	5.13	55	2.98	69	20	.0						3	1	1
YEAR	82.7	60.6	71.7	99+	66	JUL 11	16	62	DEC 13	104	0	0	0	51.49	19.44	SEP 66	9.10	SEP 66	10	.0	.0	66	.0	66		77	33	15

+ ALSO ON EARLIER DATES

FREEZE PROBABILITIES

PROBABILITY OF LATER DATE IN SPRING (MM/DD) THAN INDICATED

YEAR	.10	.20	.30	.40	.50	.60	.70	.80	.90
52	2/29	2/19	2/15	2/ 8	2. 1	1/30	1/26	1/18	1/ 9
28	2/12	2/ 2	1/29	1/19	1/12	1/ 3	12/21	12/ 8	11/ 2
24	1/ 3	11/24	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
25	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
26	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0

0/ 0 PROBABILITY OF OCCURRENCE OF THRESHOLD TEMP IS LESS THAN INDICATED PROBABILITY

PROBABILITY OF EARLIER DATE IN FALL (MM/DD) THAN INDICATED

YEAR	.10	.20	.30	.40	.50	.60	.70	.80	.90
52	11/29	12/ 6	12/16	12/21	12/28	1/ 4	1/11	1/20	2/ 2
28	12/16	12/23	12/30	1/ 3	1/12	1/22	2/ 1	0/ 0	0/ 0
24	12/31	1/ 8	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
25	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0
26	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0	0/ 0

0/ 0 PROBABILITY OF OCCURRENCE OF THRESHOLD TEMP IS LESS THAN INDICATED PROBABILITY

PROBABILITY OF LONGER THAN INDICATED FREEZE FREE PERIOD (DAYS)

YEAR	.10	.20	.30	.40	.50	.60	.70	.80	.90
52	9365	9365	947	891	829	810	809	801	890
28	9365	9365	9365	9365	9365	9365	944	832	810
24	9365	9365	9365	9365	9365	9365	9365	9365	9365
25	9365	9365	9365	9365	9365	9365	9365	9365	9365
26	9365	9365	9365	9365	9365	9365	9365	9365	9365

PRECIPITATION WITH PROBABILITY EQUAL OR LESS THAN

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	0.89	0.93	1.08	0.74	0.98	0.89	2.88	5.01	3.26	1.01	0.44	0.82	0.78
	0.98	0.82	1.03	1.78	3.13	3.91	12.03	10.66	11.01	11.16	0.82	4.41	3.93
	0.09	0.87	0.72	0.68	0.58	0.41	19.04	11.88	12.44	13.17	0.38	0.09	0.90

MEDIAN PRECIPITATION AMOUNTS (0.50 PROBABILITY LEVEL) IN THIS TABLE DIFFER FROM THE MEANS SHOWN IN THE ABOVE TABLE BECAUSE OF THE METHOD USED IN MAKING THE COMPUTATIONS. THESE VALUES WERE DETERMINED FROM THE INCOMPLETE GAMMA DISTRIBUTION WHOSE CURVE HAS BEEN FOUND TO GIVE BEST FITS TO PRECIPITATION CLIMATOLOGICAL SERIES.

	STATION: [illegible]				MAX TEMP						LAST SPRING AND FALL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
51	79.1	77.1	77.2	78.5	85.4	88.7	91.0	89.8	91.2	86.1	78.1	77.0	83.9
52	79.0	77.7	79.0	80.4	86.9	93.1	93.1	91.9	94.7	92.3	79.9	78.3	85.1
53	78.1	79.3	81.7	83.9	91.0	96.8	97.9	91.8	97.6	92.5	79.1	79.3	88.4
54	79.8	79.3	77.2	83.9	85.4	90.4	89.8*	93.2	93.7	83.9	79.2	78.7	82.9*
55	78.4	77.9	82.3	83.9	89.8	90.3	91.9	92.3	93.9	84.8	78.4	78.9	83.3
56	69.8	71.3	79.8	81.2	87.1	89.9	91.9	91.8	89.8	85.2	79.1	78.7	81.8
57	79.8	71.7	79.1	86.2	89.9	96.3	91.9	96.1	93.7	87.1	78.2	78.8	83.8
58	71.3	67.3	73.1	81.8	88.9	87.4	91.9	91.8	89.8	87.4	76.9	78.8	81.8
59	72.8	69.2	73.3	83.8	85.9	92.8	93.9	93.2	89.2	84.3	76.4	68.8	82.9
76	69.4	69.1	78.9	84.2	88.9	91.9	91.9	91.3	89.4	85.9	76.9	76.3	81.9
91	72.2	73.4	77.9	81.7	88.9	93.8	93.8	91.3	89.2	86.9	79.1	78.3	83.7
92	79.8	78.8	79.8	84.2	88.8	93.9	93.4	93.7	93.4	89.8	78.8	77.8	84.8
93	71.3	69.8	84.7	88.7	87.4	93.8	93.9	93.8	93.8	83.9	81.2	78.8	82.9
94	81.7	74.4	85.9	86.8	89.1	98.8	98.3	91.8	93.8	83.3	80.3	71.7	84.3
SUM	1733.4	1704.3	1871.7	1998.7	2118.9	2188.8	2197.9	2196.9	2158.3	2023.2	1889.3	1751.7	1988.8

	STATION: [illegible]				MIN TEMP						LAST SPRING AND FALL	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
51	48.9	48.4	55.8	46.8	53.9	69.8	72.9	74.1	72.8	66.3	52.8	53.9	58.7
52	58.4	51.2	59.1	56.2	63.8	73.8	72.8	78.9	64.9	63.9	53.9	44.8	60.8
53	48.8	52.1	57.9	48.8	67.3	73.4	71.7	71.8	78.9	63.3	56.8	54.1	62.8
54	51.8	49.8	51.4	53.2	63.4	70.4	71.8*	72.4	71.1	61.8	51.7	45.3	66.1*
55	48.8	48.8	59.9	48.4	53.2	67.9	78.1	72.2	71.2	68.6	52.9	49.7	60.8
56	48.8	48.4	57.2	57.2	67.1	68.8	73.8	71.9	68.8	63.1	51.8	48.8	59.8
57	52.4	48.7	58.4	58.8	69.1	69.4	75.8	71.8	70.8	71.8	54.8	54.2	61.4
58	54.9	43.8	49.8*	51.9	69.2	74.4	77.2	72.8	69.9	69.8	55.2*	48.3	59.8*
59	47.9	45.8	49.8	48.1	69.9	73.4	74.9	72.8	71.8	69.8	53.7	49.1	60.1
76	44.8	44.8	59.9	53.2	54.3	78.1	75.8	78.2	71.4	69.2	49.4	48.1	60.1
91	48.1	49.6	49.9	53.6	63.8	69.2	71.9	71.8	69.8	66.8	53.8	53.4	60.8
92	53.6	48.3	58.6	58.8	64.4	78.8	75.6	71.8	68.8	63.6	54.8	51.8	61.3
93	53.6	49.8	59.8	57.7	69.8	71.8	78.6	72.4	64.8	63.6	57.1	47.4	60.8
94	58.9	47.3	59.9	46.6	65.4	78.8	78.7	71.4	59.8	54.4	46.8	48.8	58.8
SUM	1278.7	1189.3	1325.8	1426.9	1659.6	1891.8	1922.9	1928.8	1892.8	1821.8	1389.9	1178.7	1698.8

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
TEMPERATURE	48.3	43.7	58.3	73.4	78.4	85.4	81.0	81.7	78.3	70.5	61.4	51.4	71.8
PRECIPITATION	2.31	2.88	3.83	2.68	3.92	3.91	3.88	3.21	3.02	2.02	1.69	1.74	32.87
HEATING DEGREE DAY	396	378	94	12	0	0	0	0	0	0	84	378	1262
COOLING DEGREE DAY	58	76	125	238	252	642	818	826	438	296	228	67	3234

STATION: 00 4707

AVERAGE TEMPERATURE

LAKE ALFRED EXP STA: FL

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
70	65.3	68.8	67.8	67.8	73.4	79.9	81.2	81.7	80.8	76.2	69.8	63.6	72.6
71	65.0	65.2	69.8	68.3	76.0	82.1	83.1	82.0	80.8	73.6	67.8	58.8	72.0
72	63.1	65.2	69.8	71.8	71.6	82.9	81.3	79.4	79.8	72.4	67.8	64.2	72.7
73	63.8	63.0	65.8	70.8	76.1	80.7	83.7M	82.8	80.9	72.6	65.9	57.8	71.5M
74	59.2	61.9	67.9	72.2	77.5	79.8	82.6	82.3	81.1	72.4	65.9	61.9	71.7
75	63.1	66.8	67.5E	69.3	77.8	79.6	81.8	82.2	77.7	73.8	68.8	64.2	72.0M
76	64.7	65.8	69.0	71.8	77.6	81.1	83.9	81.5	80.8	72.6	71.0	68.8	73.8
77	63.2	63.2	69.0	71.8	77.6	83.6	83.6	81.8	81.1	71.7M	71.0	60.1	72.8M
78	62.8	65.7	69.8	71.4	77.4	83.8	83.8	82.8	79.5	76.2M	67.1	60.3	72.3M
79	62.2	66.8	67.8	71.4	78.9	82.1	81.6	79.6	78.6	74.6	69.9	63.3	71.9
80	57.1	64.2	67.9	69.8	77.5	80.6	81.8	81.8	80.18	72.7	68.7M	64.0M	72.1M
81	63.2	65.7M	68.8	68.1M	77.1	80.6E	82.0M	81.8	78.7	73.2	63.8E	59.7	71.3M
82	58.8	64.1	67.8	72.8	77.1	81.2	82.1	79.6	78.7	72.9	64.3	59.4	71.6M
83	64.8	64.3	67.8	72.3	77.8	81.8	81.8	81.8	78.7	71.4	69.3	64.8	72.7
84	64.8	64.3	69.8	74.1	78.8	78.8	80.3	80.1	77.2	72.9	67.8	60.2	72.8
85	57.8	59.8	67.8	69.2	77.1	78.8	81.1	81.7	76.3	74.1	63.3	58.4	70.3
86	62.3	64.2	67.1	70.1	78.8	81.2	82.8	79.8	78.8	72.3	65.4	63.4	72.8
87	62.3	64.2	67.1	72.8	78.1	82.1	82.2	81.8	79.3	73.3	67.3	57.8E	72.2M
88	59.3	63.2	67.8	72.3	77.3	82.3	81.8	81.8	80.8	72.7	67.8	57.8	72.0
89	57.2	63.8	67.8	74.2	78.1	82.8	81.8	82.7	81.8	73.8	63.8	61.8	72.8
90	64.2	65.3	69.1	69.8	73.8	83.1	83.8	81.8	79.8	76.8	67.8	60.2	72.3
91	63.2	66.2	67.1	71.8	77.8	83.2	81.8	81.8	80.3	76.8	67.8	63.7	72.7
92	62.8	65.3	69.8	69.2	76.4	81.7	83.2	83.1	81.1	76.8	69.8	59.1	71.9
93	58.8	63.1	69.8	72.8	77.8	83.2	83.8	81.8	81.7	73.7	67.8	59.8	72.7
YR	1970.8	1967.9	1980.3	2011.8	2033.8	2029.8	2050.9	2048.1	2021.8	1972.8	1998.1	1962.7	1988.1

STATION: 00 4707

TOTAL PRECIPITATION

LAKE ALFRED EXP STA: FL

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
70	.26	5.12E	2.87	6.59	1.28	7.09	8.81	9.13	8.84	1.78	2.58	2.68	60.38E
71	.82	5.12	5.65	1.93	2.36	7.37	8.92	15.23	7.84	4.11	1.31	1.68	65.92
72	2.32	5.59	2.67	4.37	1.12	7.37	8.92	15.16	10.33	4.45	4.85	3.13	80.58
73	.79	1.48	3.21	3.35	2.71	7.21	7.35	8.26	6.36	1.58	2.28	1.32	39.27
74	2.47	2.78	3.71	5.23	3.68	9.01	6.97	7.77	4.82	3.48	1.87	1.93	51.66
75	3.66	.03	.68	1.87	7.85	9.13	6.87	4.19	4.87	9.14	.87	.86	44.43
76	2.13	1.46	3.66	6.79	11.21	9.34	8.97	13.44	4.88	.77	3.61	2.23	69.05
77	4.89	5.58	4.58	3.78	4.91	8.08	8.06	9.15	5.15	3.17	1.64	2.57	65.68
78	11.57E	5.98	16.78	5.72	5.71	11.29	12.36	9.11	7.28	8.26	.98	2.84	78.57D
79	1.23	5.58	6.89	5.72	1.28	9.92	12.89	6.38	10.44	3.92	.83	1.76	69.28
80	3.82	5.91	3.23	3.60	4.89	4.04	8.81	7.73	4.33E	1.57	.33D	3.56	54.56D
81	3.82	.68	3.19	1.38	6.42	6.57E	9.43	9.85	3.84	.85	2.47D	.23	47.73D
82	3.82	5.73	3.67	.13	9.32	9.21	7.43	6.63	5.31	1.75	6.82	2.37	56.37
83	3.26	5.72	3.88	3.59	4.51	7.33	8.81	5.75	5.84	3.83	.62	1.76	49.77
84	3.48	5.91	3.17	1.46	.87	10.78	7.84	8.19	8.16	2.83	.37	3.49	67.46
85	8.76	5.84	3.89	1.81	4.60	9.09	7.31	4.43	3.42	1.33	.16	1.27	53.28
86	.69	5.13	1.86	.69	2.46	13.52	11.67	14.78	4.85	.91	.89	2.54	59.71
87	1.35	5.68	3.44	.37	9.43	13.78	8.19	9.57	6.11	4.53	4.87	.84	54.78
88	3.81	5.87	5.89	3.21	5.69	9.76	8.46	9.46	8.25	6.73	2.24	4.37	69.79
89	3.81	5.73	5.89	.78	2.89	5.69	8.21	8.18	8.09	1.94	.89	.34	43.78
90	1.83	5.82	2.39	.88	3.24	9.93	9.36	7.43	3.88	4.93	2.78	.78	63.68
91	1.83	5.82	1.86	.78	3.24	9.34	8.34	8.18	.33	3.43	4.85	2.84	49.31
92	4.76	5.87	3.28	1.87	3.46	9.23	11.28	9.11	3.46	3.11	1.87	1.89	53.33
93	.38	5.82	3.28	1.89	3.29	13.43	8.87	9.82	8.85	.32	.23	1.99	63.38
YR	90.48	81.93	91.82	57.58	98.23	170.28	176.78	177.96	153.01	88.28	48.21	47.81	1289.59

STATION: 00 4707

TOTAL SNOWFALL

LAKE ALFRED EXP STA: FL

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
70-71							.0	.0	.0	.0	.0	.0	
71-72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72-73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73-74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74-75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75-76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76-77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77-78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
78-79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
79-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
80-81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81-82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
82-83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
83-84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
84-85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
85-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
86-87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87-88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88-89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
89-90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90-91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
91-92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92-93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
93-94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
YR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

E AMOUNT IS WHOLLY OR PARTLY ESTIMATED.

T TRACES AN AMOUNT TOO SMALL TO MEASURE.

M ONE OR MORE DAYS OR RECORD MISSING; AN AVERAGE VALUE IS ENTERED. LESS THAN 10 DAYS RECORD IS MISSING.

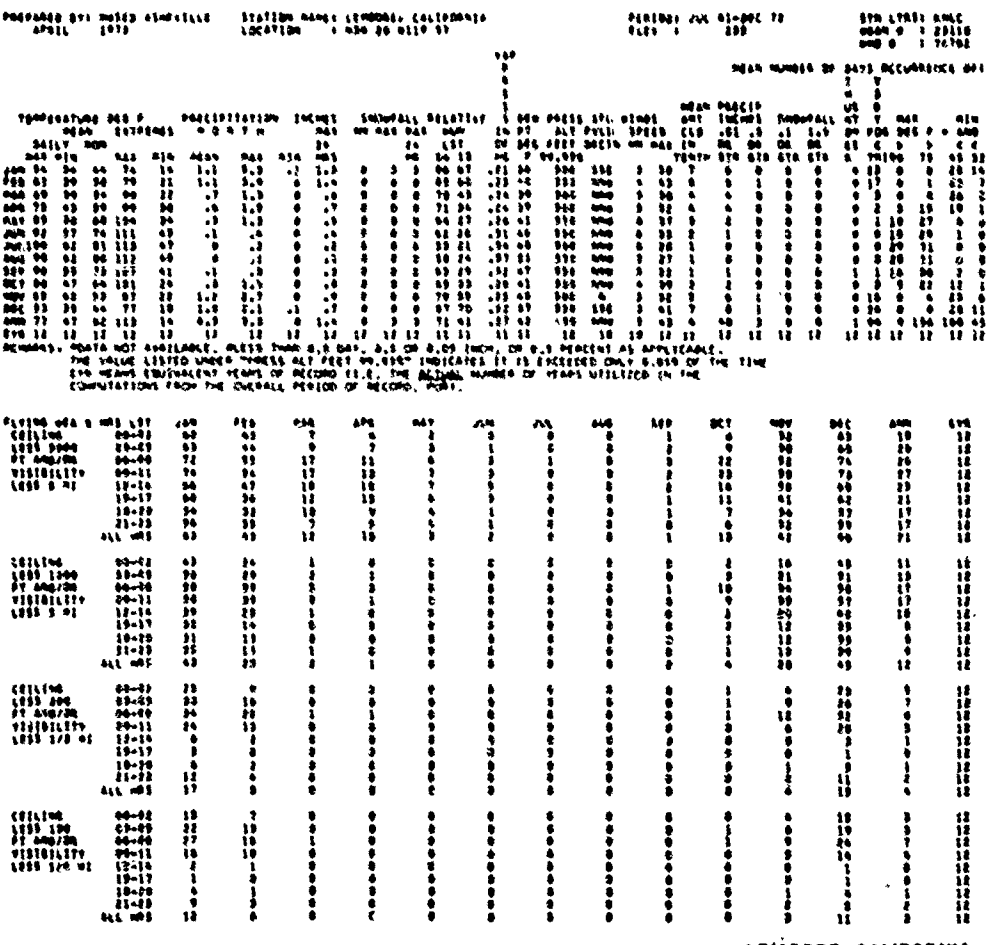
D WATER EQUIVALENT OF SNOWFALL AMOUNTS ON PARTLY ESTIMATED.

STATION CLIMATIC SUMMARY

U.S. Navy and Marine Corps Meteorological Station Climatic Summaries (SCS) are available for most U.S. Navy and Marine Corps installations. These summaries generally consist of four pages; a narrative, two pages of tabular data (sample shown below) and a station history.

Two additional summaries are indexed under the SCS. These are the Air Weather Service Climatic Brief shown on the next page and the Local Climatological Data (LCD) for selected National Weather Service stations.

General note: When a summary is indicated under "Station Clim Sum" in Part II or III, the summary will be a SCS if the station is a Navy or Marine Corps installation, a Climatic Brief if the station is an Air Force or Army installation or a LCD if the station is a National Weather Service office.



LEMOORE, CALIFORNIA

AWS CLIMATIC BRIEF — EDWARDS AFB/EDWARDS, AAF/NORTHROP, CALIFORNIA — PERIOD 1960-70 — WBAN # 93117 — WMO #

Prepared by ETAC (MAR 1972) — N 34 43 W 117 46 — FIELD ELEVATION: 2314 FT — STN LTRS: EDAF

MONTH	TEMPERATURE (°F) EXTREME MAXIMUM	TEMPERATURE (°F) MEAN DAILY MAXIMUM	TEMPERATURE (°F) MEAN DAILY MINIMUM	TEMPERATURE (°F) EXTREME MINIMUM	PRECIPITATION (in.) MEAN TOTAL	PRECIPITATION (in.) GREATEST IN 24 HOURS	PRECIPITATION (in.) MEAN SNOWFALL	PRECIPITATION (in.) GREATEST SNOWFALL IN 24 HOURS	WIND (KT) PREVAILING DIRECTION	WIND (KT) MEAN SPEED	WIND (KT) EXTREME SPEED (FASTEST MILE) (DIRECT)	MEAN RELATIVE HUMIDITY (%) 0300	MEAN RELATIVE HUMIDITY (%) 1500	MEAN DEW POINT (°F)	MEAN STATION PRESSURE (MB)	99.5%	MEAN NUMBER OF DAYS PRECIP ≥ 0.01	PRECIP ≥ 0.5	SNOWFALL ≥ 0.1	SNOWFALL ≥ 1.5	THUNDERSTORMS	FOG (< 7 MILES)	TEMPERATURE (°F) MAXIMUM ≥ 90	TEMPERATURE (°F) MAXIMUM ≥ 80	TEMPERATURE (°F) MINIMUM ≤ 32	TEMPERATURE (°F) MINIMUM ≤ 0	MEAN CLOUD (TENTHS)
JAN	79	60	37	23	2.9	1.7	1	4	E	5	44	80	57	39	.24	490	8	2	0	0	0	13	0	0	8	0	5
FEB	76	60	42	24	2.0	1.9	0	0	W	5	50	87	61	43	.28	500	7	1	0	0	0	13	0	0	2	0	6
MAR	82	59	41	28	2.1	1.8	0	0	W	5	37	85	59	42	.27	400	8	1	0	0	0	10	0	0	0	0	5
APR	91	61	45	33	2.0	1.9	0	0	W	6	40	82	60	43	.28	390	7	1	0	0	0	11	0	1	0	0	5
MAY	89	61	48	38	0.2	0.3	0	0	W	7	40	87	65	47	.32	300	3	0	0	0	0	13	0	0	0	0	6
JUN	85	63	51	40	0.1	0.2	0	0	W	7	38	88	67	49	.35	390	2	0	0	0	0	18	0	0	0	0	6
JUL	82	64	52	41	0.1	0.7	0	0	W	7	26	90	69	51	.38	300	0	0	0	0	0	24	0	0	0	0	6
AUG	91	64	53	45	0	0.2	0	0	W	7	28	93	71	52	.39	390	1	0	0	0	0	25	0	0	0	0	6
SEP	93	68	52	36	0.1	0.3	0	0	W	5	39	89	66	51	.38	390	1	0	0	0	1	20	0	3	0	0	5
OCT	103	69	48	34	0.4	0.7	0	0	W	5	40	85	58	48	.34	390	2	0	0	0	0	17	1	4	0	0	5
NOV	90	63	44	28	2.1	1.9	0	0	E	4	42	85	59	45	.30	490	6	1	0	0	0	14	0	1	1	0	5
DEC	77	59	39	26	2.2	1.5	0	0	E	4	42	84	60	40	.29	490	7	2	0	0	0	11	0	0	5	0	5
ANN	103	63	46	23	14.2	1.9	1	4	W	6	50	87	63	46	.31	490	56	8	0	0	1	198	1	9	16	0	5
EYR	11	10	10	11	11	9	11	9	11	11	10	11	11	11	11	7	11	11	11	11	10	10	10	10	10	10	11

REMARKS

RECORD FOR: MEAN AND DAILY OBS: 6004-7982.

NOTE: DATA NOT AVAILABLE, LESS THAN 0.5 DAY, 0.5 OR 0.05 INCH, OR 0.5 PERCENT (%) AS APPLICABLE.

FLYING WEATHER (% FREQ)	HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CIG less than 1000 feet and/or VSBY less than 3 miles	00-02	15	26	19	21	42	58	65	65	50	37	25	16	37	8
	03-05	17	29	23	20	38	70	77	78	59	43	28	15	44	9
	06-08	18	34	27	23	38	71	80	79	60	43	27	16	44	11
	09-11	14	16	17	19	25	49	53	50	35	24	15	14	28	11
	12-14	6	8	10	9	22	30	28	31	22	15	9	10	17	11
	15-17	8	10	13	10	28	36	41	42	30	25	12	9	22	11
	18-20	10	16	14	14	34	51	57	56	39	28	16	12	30	11
	21-23	12	20	17	17	36	53	60	54	43	28	20	14	33	11
	ALL HOURS	12	18	18	19	38	52	57	56	41	29	18	13	32	
CIG less than 1800 feet and/or VSBY less than 3 miles	00-02	11	20	12	14	30	49	64	64	46	32	21	11	30	8
	03-05	12	28	15	20	40	60	75	76	55	38	22	11	37	9
	06-08	10	18	18	23	41	60	78	78	56	35	21	11	37	11
	09-11	8	9	8	10	22	34	50	46	29	17	9	9	21	11
	12-14	3	4	3	5	14	20	28	28	20	11	3	4	12	11
	15-17	3	6	7	7	21	30	41	41	28	22	8	7	18	11
	18-20	5	12	10	11	27	45	57	55	36	26	14	9	26	11
	21-23	7	14	10	11	26	47	58	53	41	25	17	9	27	11
	ALL HOURS	7	13	10	12	27	43	56	54	37	25	13	9	26	
CIG less than 1000 feet and/or VSBY less than 2 miles	00-02	7	17	9	13	23	37	61	59	41	28	17	10	27	8
	03-05	8	18	11	16	25	44	72	71	50	32	18	10	32	9
	06-08	6	13	12	17	30	43	71	71	47	30	17	9	33	11
	09-11	6	7	5	6	11	19	35	36	23	11	6	7	15	11
	12-14	2	2	2	3	7	9	18	21	11	8	2	3	8	11
	15-17	2	4	3	4	12	20	34	37	21	18	6	5	14	11
	18-20	4	8	6	8	19	34	52	51	31	22	12	7	21	11
	21-23	6	10	7	9	19	36	55	50	33	22	14	7	21	11
	ALL HOURS	5	9	7	9	19	30	49	49	32	20	11	7	21	
CIG less than 200 feet and/or VSBY less than ½ mile	00-02	3	8	3	3	5	8	21	27	18	16	10	5	11	8
	03-05	3	9	5	6	9	9	27	30	22	18	10	6	13	9
	06-08	4	7	5	7	9	7	18	20	19	13	10	5	11	11
	09-11	2	3	1	1	0	0	1	1	2	2	3	3	1	11
	12-14	0	0	0	0	0	0	0	0	0	1	1	0	1	11
	15-17	1	1	1	1	2	1	0	1	1	1	1	1	1	11
	18-20	1	2	1	1	2	1	1	2	2	1	1	1	1	11
	21-23	2	4	1	1	3	2	4	5	5	4	3	2	3	11
	ALL HOURS	2	4	2	2	3	4	10	13	9	7	5	3	5	

AWS [illegible] 62

AWSP 105-4, VOL II

SURFACE WIND TABULATION

This summary is prepared by the National Climatic Center in accordance with the particular project specifications. Generally the format is the same as the Part C of the SMOS or USAF "C" Summary. The usual input data for this tabulation is the simultaneous observation of wind speed and direction recorded hourly, twenty-four times a day. The summaries are prepared for monthly, seasonal or annual periods. Exceptions are documented on the tabulations.

WIND DIRECTION VERSUS WIND SPEED

STATION NAME/NUMBER 12834 Cheyenne Beach, Florida HOURS 24 Observations per day PERIOD OF RECORD 1956-1961

WIND SPEED (Knots) or M.P.H.

Mo.	Code	Direction	0 — 3	4 — 7	8 — 12	13 — 18	19 — 24	25 — 31	32 — 38	39 — 46	47 & Over	Total	Percent	Ave Speed
01		N	88	64	141	113	31	12	2			452	8.4	12.6
		NNE	3	34	144	113	20	3				317	6.0	12.0
		NE	11	44	73	48	3					179	3.4	10.4
		ENE	11	29	39	41	6					127	2.5	10.5
		E	10	27	48	38	3					126	2.3	9.6
		ESE	7	32	51	31	4					125	2.4	11.3
		SE	14	31	72	48	3					174	3.2	10.2
		SSE	13	41	82	62	6					204	3.8	10.3
		S	23	61	87	80	21	5	1			298	5.6	10.4
		SSW	14	32	100	78	13					237	4.4	11.0
		SW	20	104	214	89	24	3				454	7.3	9.9
		WSW	23	113	223	89	27	1	1			455	7.4	10.3
		W	48	154	158	109	24	3	1	1		499	9.2	9.9
		WNW	18	143	201	140	36	3				341	6.7	9.9
		NW	43	200	244	138	17					722	13.1	9.0
		NNW	24	139	171	113	23	1				471	8.1	9.9
		Calm	326									326	6.4	
Total			704	1540	2855	1334	304	70	5	1		5331	100.0	9.7
Percent			14.7	28.9	53.5	25.0	5.7	1.3	.1	.0			100.0	

EXAMPLE

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

The SSMO series of coastal marine summaries is managed and produced by the Naval Oceanography Command Detachment, Asheville. This standard summary presents 21 different tables of surface climatological data including various combinations of the regularly reported meteorological elements. The summaries are prepared for selected ocean or coastal areas utilizing all available ship observations within such areas. The SSMO program has also been used to summarize synoptic land data and ocean station vessel data. Summaries for land stations will not contain tables 17, 18, 19, or 20. This program has been modified as experience and needs have indicated. There will be some differences noted in the format of earlier summaries. Published volumes are grouped within the appropriate geographic areas (e.g. Chinese-Philippine Coastal SSMO series appears after China). Copies of published volumes are available from DDC or NTIS.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19.

Table	*Title*
1	*Percentage Freq of Weather Occurrence by Wind Dir (8 pts.)*
2	*Percentage Freq of Weather Occurrence by Hour (GMT)*
3	*Percentage Freq of Wind Dir (8 pts) by Speed and by Hour (GMT)*
3A	*Percentage Freq of Wind Dir (8 pts) by Speed and by Hour (GMT)*
4	*Percentage Freq of Wind Speed by Hour (GMT)*
5	*Percentage Freq of Total Cloud Amt (Oktas) by Wind Dir (8 pts)*
6	*Percentage Freq of Ceiling Heights (ft, NH >4/8) and Occurrence of NH <5/8 by Wind Direction (8 pts)*
7	*Cumulative Percentage Freq of Occurrence of Ceiling Height(feet, NH >4/8)and Visibility (Nautical Miles)*
7A	*Percentage Freq of Low Cloud Amt (or Middle Cloud Amt if Low Clouds are not Present)*
8	*Percentage Freq of Wind Dir (8 pts) vs. Occurrence or Non-Occurrence of Precip at Ob Time with Varying Values of Vis (Nautical Miles)*
9	*Percentage Freq of Wind Dir (8 pts) vs Wind Spd (Kts) with Varying Values of Visibility (Nautical Miles)*
10	*Percentage Freq of Ceil Heights (ft, NH >4/8) and Occurrence of NH <5/8 by Hour (GMT)*
11	*Percentage Freq of Visibility (Nautical Miles) by Hour (GMT)*
12	*Cumulative Percentage Freq of Ranges of Vis (Nautical Miles) and Ceiling Height (feet, NH >4/8)by Hour (GMT)*
13	*Percentage Frequency of Relative Humidity (%) by Air Temperature (°F.)*
14	*Percentage Freq of Wind Direction (8 pts) by Air Temperature (°F.)*
15	*Means, Extremes, and Percentiles of Air Temp (°F.) by Hour (GMT)*
16	*Percentage Frequency of Relative Humidity (%) by Hour (GMT)*
17	*Percentage Freq of Air Temp (°F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (°F.)*
18	*Percentage Freq of Surface Wind Speed (kts) and Direction (8 pts) vs. Sea Height (feet)*
19	*Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds)*
20	*Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature (°F.)*
21	*Monthly and Annual Sea Level Pressures (millibars)*

ANNUAL

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1950-1971

AREA 0017 CAPE HATTERAS
34.0N 76.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
WND DIR	RAIN	RAIN SNOW	DRZL	FRZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	NO SIG WEA
N	2.3	.9	1.3	.0	.1	0	0	4.6	2.6	.9	2.0	.1	5.5	.1	84.2
NE	4.0	1.2	1.8	.0	0	.0	0	6.8	3.5	1.1	1.5	0	4.7	0	82.3
E	3.5	1.3	2.2	.0	.0	.0	0	6.8	4.3	1.0	.7	0	3.5	.1	81.9
SE	3.3	1.7	2.2	.0	.0	.0	0	6.9	3.5	1.4	.8	0	3.5	0	80.3
S	3.2	1.7	2.0	.0	.0	.0	0	6.5	4.0	2.5	1.3	.1	4.5	0	78.3
SW	3.4	1.6	1.1	.0	.0	.0	0	3.8	3.2	3.2	1.6	.1	3.6	.1	80.8
W	2.2	1.0	1.0	.0	0	.0	.0	4.2	2.5	2.6	1.1	0	4.6	.1	83.2
NW	2.1	.8	.9	0	.1	0	.1	3.8	2.4	2.0	1.4	.1	3.0	.1	85.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0
CALM	1.3	.2	.7	.0	.0	.0	.0	2.2	1.7	1.0	2.9	.1	10.9	.0	81.9
TOT PCT	3.3	1.2	1.4	0	0	0	0	5.7	3.2	1.9	1.9	.1	4.7	.1	83.1
TOT OBS: 117344															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
HOUR (GMT)	RAIN	RAIN SNOW	DRZL	FRZ PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	NO SIG WEA
04103	3.1	1.2	1.3	.0	0	0	0	5.4	2.8	1.6	1.4	.1	4.9	.1	84.1
06109	3.5	1.2	1.4	.0	0	0	0	6.0	3.0	4.9	1.2	.1	3.2	.1	82.1
12115	3.7	1.3	1.4	0	.0	0	0	6.2	3.5	1.8	1.6	.1	4.2	.1	82.1
18121	2.9	1.2	1.4	.0	0	0	0	5.3	3.2	.6	1.7	.1	6.5	.1	83.1
TOT PCT	3.3	1.2	1.4	0	0	0	0	5.7	3.2	1.9	1.9	.1	4.7	.1	83.1
TOT OBS: 117933															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	4.3	8.7	3.3	.5	.1		10.9	13.7	10.1	13.4	14.0	13.0	10.5	17.1	10.7	13.9
NE	.4	4.0	8.3	1.8	.2	0		12.8	10.8	13.2	11.7	12.3	12.6	13.1	13.2	12.4	13.6
E	.4	3.5	9.7	.7	.1	0		9.4	12.2	8.6	9.8	8.2	7.7	9.3	9.8	9.3	8.7
SE	.3	2.9	7.8	.6	.1	0		8.8	12.1	7.2	8.2	7.4	6.8	8.4	8.3	8.5	7.9
S	.5	4.5	6.1	1.8	.3	0		13.8	10.7	14.2	13.7	14.8	12.9	11.1	11.5	12.4	13.9
SW	.4	4.5	8.6	2.4	.3	0		16.1	13.0	17.5	20.2	16.8	17.2	14.2	13.8	15.4	17.9
W	.3	3.7	6.8	2.2	.5	0		12.7	15.4	11.3	10.8	13.3	13.4	14.1	12.9	12.7	11.1
NW	.3	3.0	5.3	2.4	.3	.1		11.6	19.1	10.2	9.4	11.3	12.3	19.1	12.1	11.7	11.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.5	.2	.0	.0	.0
CALM	1.4							1.4	.0	1.6	1.6	2.0	2.2	1.6	1.7	1.4	1.5
TOT OBS							129364		14.9	28163	1961	28595	4662	28122	1892	33239	3769
TOT PCT	4.8	36.4	66.9	19.1	2.6	.3		100.9		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.9	7.4	5.0	1.3	.2		15.9	15.7	15.9	14.9	13.4	16.4
NE	1.7	6.4	3.9	.7	.1		12.8	14.8	13.1	12.9	13.1	12.9
E	1.6	4.7	1.8	.3	0		8.4	13.9	8.7	8.2	8.6	8.4
SE	1.6	3.8	1.4	.3	0		8.0	13.1	7.8	7.3	8.0	8.0
S	2.1	6.8	3.3	.7	.1		13.0	14.7	14.3	13.8	11.1	12.8
SW	1.8	8.3	5.0	1.0	.1		16.1	15.6	17.7	16.9	14.2	15.8
W	1.4	6.2	3.8	1.1	.1		12.7	15.4	11.2	13.0	14.0	12.5
NW	1.3	5.1	4.7	1.2	.1		11.6	15.1	10.1	11.7	13.1	11.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.6	.0	1.6	2.0	1.7	1.4
TOT OBS						129364		14.9	28104	32615	29074	27008
TOT PCT	14.7	48.7	29.1	6.8	.7		100.0		100.0	100.0	100.0	100.0

ANNUAL (cont.)

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1950-1971

AREA 0017 CAPE HATTERAS
34.8N 74.8W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				MPH SPEED (KNOTS)						
00&03	1.6	3.8	30.1	46.8	15.4	2.7	.3	13.1	100.0	90104
04&09	2.0	3.0	31.6	46.0	14.9	2.7	.3	14.8	100.0	32478
12&15	1.7	3.3	29.9	48.9	15.4	2.5	.3	13.8	100.0	29974
16&21	1.4	3.6	29.9	47.7	15.0	2.4	.3	13.8	100.0	37008
TOT										189564
PCT	1.6	3.2	30.4	46.9	15.1	2.6	.3	14.9	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	2.6	4.8	4.8		4.6
NE	3.2	2.1	3.7	3.6		3.0
E	1.9	1.6	2.6	2.5		3.3
SE	1.6	1.2	2.0	2.1		3.5
S	3.0	2.3	4.1	3.4		3.1
SW	4.7	2.9	4.8	3.5		4.3
W	4.3	2.1	3.6	2.5		4.1
NW	4.0	1.9	3.2	2.7		4.2
V&R	.0	.0	.0	.0		.0
CALM	.8	.3	.3	.7		3.1
TOT OBS					100623	4.0
TOT PCT	28.3	16.9	29.0	25.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,MM >4/8) AND OCCURRENCE OF MM <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	MM <5/8 ANY HGT	TOTAL OBS
N	.2	.1	.6	1.7	2.7	1.2	.3	.1	.1	.1	9.8	
NE	.1	*	.3	1.2	1.9	1.1	.3	.1	.1	.1	7.6	
E	.1	*	.2	.8	1.2	.7	.2	.1	*	.1	5.1	
SE	.1	*	.2	.6	1.0	.6	.2	*	*	.1	4.0	
S	.1	.1	.3	1.1	1.7	1.0	.3	.1	.1	.1	8.2	
SW	.2	.1	.3	1.0	1.7	.9	.3	.1	.1	.2	11.0	
W	.1	*	.2	.9	1.4	.9	.3	.1	.1	.1	8.7	
NW	.1	*	.2	1.0	1.7	1.0	.3	.1	*	*	7.1	
V&R	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	*	*	*	*	.1	.1	*	*	*	*	1.3	
TOT OBS												100623
TOT PCT	1.0	.4	2.0	8.5	13.9	7.7	2.4	.8	.8	.7	62.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (MM >4/8) AND VSBY (MM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >0YD	* OR >0
* OR >6000	.7	1.2	1.2	1.3	1.3	1.3	1.3	1.3
* OR >5000	1.2	1.9	2.0	2.0	2.1	2.1	2.1	2.1
* OR >3500	2.9	4.2	4.4	4.4	4.4	4.4	4.4	4.4
* OR >2000	7.8	11.6	12.0	12.0	12.0	12.0	12.0	12.1
* OR >1000	16.9	24.4	25.3	25.3	25.3	25.3	25.3	25.3
* OR >600	21.8	32.1	33.0	33.0	33.0	34.0	34.0	34.0
* OR >300	22.8	33.7	35.3	35.8	35.9	36.0	36.0	36.0
* OR >150	22.8	34.0	35.8	36.2	36.3	36.3	36.4	36.4
* OR > 0	22.9	34.4	36.4	36.8	37.0	37.1	37.3	37.4

TOTAL NUMBER OF OBS: 100623 PCT FREQ MM <5/8: 62.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.7	10.4	13.7	11.1	9.2	7.9	9.2	6.8	14.1 .7	189011

ANNUAL (cont.)

PERIOD: (PRIMARY) 1951-1971
(OVER-ALL) 1936-1971

AREA 0017 CAPE HATTERAS
35.0N 76.0W

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (SM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	NO PCP	.1	*	*	*	*	.1	*	*	.0	*	.3	
	TOT %	.1	*	*	*	.1	.1	*	.1	.0	*	.5	
1/2<1	PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.2	
	TOT %	.1	*	*	*	*	*	*	*	.0	*	.3	
1<2	PCP	*	*	*	*	.1	*	*	*	.0	.0	.3	
	NO PCP	.1	*	*	*	*	.1	*	*	.0	*	.3	
	TOT %	.1	.1	.1	*	.1	.1	.1	.1	.0	*	.6	
2<5	PCP	.2	.2	.1	.1	.2	.2	.1	.1	.0	*	1.0	
	NO PCP	.4	.3	.2	.1	.3	.3	.2	.2	.0	*	2.1	
	TOT %	.6	.4	.3	.2	.5	.5	.3	.3	.0	*	3.1	
5<10	PCP	.4	.4	.3	.3	.5	.4	.3	.2	.0	*	2.8	
	NO PCP	9.5	2.5	1.5	1.3	2.8	3.6	2.3	1.1	.9	.4	19.9	
	TOT %	9.9	2.9	1.8	1.6	3.3	4.0	2.6	2.3	.0	.4	22.7	
10+	PCP	.1	.2	.1	.1	.2	.2	.1	.1	.0	*	1.2	
	NO PCP	12.2	9.1	6.1	4.8	8.9	11.1	9.6	8.7	.0	1.1	71.6	
	TOT %	12.4	9.2	6.3	4.9	9.1	11.3	9.7	8.8	.0	1.1	72.8	
	TOT OBS												117384
	TOT PCT	17.1	12.7	8.6	6.8	13.1	16.0	12.7	11.6	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (SM)	SPD (KTS)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.0	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.2	
	22+	.1	*	*	*	*	*	*	*	.0		.2	
	TOT %	.1	*	*	*	.1	.1	.1	.1	.0	*	.5	
1/2<1	0-3	*	*	*	*	.0	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.1	
	22+	*	*	*	*	*	*	*	*	.0		.1	
	TOT %	.1	*	*	*	*	*	*	*	.0	*	.3	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0		.1	
	11-21	*	*	*	*	*	*	*	*	.0		.2	
	22+	.1	*	*	*	.1	*	*	*	.0		.3	
	TOT %	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.7	
2<5	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0		.7	
	11-21	.2	.2	.1	.1	.2	.2	.1	.1	.0		1.2	
	22+	.3	.2	.1	.1	.2	.2	.1	.1	.0		1.2	
	TOT %	.6	.4	.3	.2	.5	.5	.3	.3	.0	*	3.3	
5<10	0-3	.1	.1	.1	.1	.1	.1	.1	.1	.0	.4	1.0	
	4-10	.8	.7	.5	.5	.9	.9	.7	.5	.0		5.0	
	11-21	1.7	1.4	.8	.7	1.5	2.0	1.1	.9	.0		12.1	
	22+	1.2	.7	.3	.3	.8	1.0	.8	.4	.0		5.0	
	TOT %	3.8	2.9	1.8	1.6	3.2	4.0	2.6	2.3	.0	.4	22.6	
10+	0-3	.3	.3	.3	.2	.4	.3	.2	.2	.0	1.1	3.4	
	4-10	3.3	3.0	2.7	2.3	3.3	3.4	2.8	2.4	.0		23.3	
	11-21	8.3	4.8	2.8	2.1	4.4	6.1	4.8	4.3	.0		38.6	
	22+	2.3	1.1	.4	.3	.8	1.3	1.0	1.0	.0		10.1	
	TOT %	12.3	9.2	6.2	4.9	9.1	11.4	9.7	8.8	.0	1.1	72.8	
	TOT OBS												102911
	TOT PCT	17.0	12.7	8.4	6.8	13.0	16.1	12.7	11.6	.0	1.6	100.0	

ANNUAL (cont.)

PERIOD: (PRIMARY) 1951-1971
(OVERALL) 1836-1971

AREA 0017 CAPE HATTERAS
35.0N 76.0W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NM >6/8) AND OCCURRENCE OF NM <3/8 BY HOUR

HOUR (GMT)	000 199	200 399	400 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
00103	.9	.3	1.9	7.9	12.0	7.7	2.3	.8	.5	.9	35.7	64.3	24878
06109	1.1	.3	1.6	7.0	11.8	7.3	2.1	.6	.4	.8	32.9	67.1	24301
12115	1.0	.5	2.4	9.1	14.4	7.4	2.4	.8	.6	.7	39.3	60.7	24492
18121	.9	.4	2.1	9.1	14.0	7.8	2.4	.9	.6	.5	38.4	61.6	24818
TOT PCT	1.0	.4	2.0	8.3	13.2	7.3	2.3	.8	.5	.7	36.7	63.3	103161 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00103	.4	.2	.7	3.3	24.2	71.0	29066
06109	.4	.3	.6	2.6	22.4	73.6	30168
12115	.6	.4	.8	3.6	21.9	72.8	28765
18121	.9	.5	.8	3.5	21.9	72.9	34997
TOT PCT	.5	.3	.7	3.3	22.6	72.6	122996 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NM >6/8),BY HOUR

HOUR (GMT)	<150 <500FB	400 <1	<1000 <3	1000+ AND5+	NM <3/8 AND 5+	TOTAL OBS
00103	.9	3.3	13.2	24.1	52.7	23998
06109	1.2	3.2	11.8	22.3	63.9	23781
12115	1.1	4.2	15.3	25.6	59.1	23648
18121	.9	3.6	14.7	25.2	60.1	29048
TOT PCT	1.0	3.6	13.8	24.4	61.8	100679 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
99/99	.0	.0	.0	.0	.0	.0	.0	.0		.0
90/96	.1	.0	.0	.0	.1	.1	.0	.0		.3
83/89	.0	.0	.0	.1	.3	.8	.4	.1		2.1
80/84	.0	.0	.1	.4	1.8	4.9	3.1	1.7		13.9
75/79	.0	.0	.2	1.0	2.3	5.8	3.8	3.4		18.1
70/74	.0	.0	.3	1.3	3.1	5.9	4.3	3.7		18.9
65/69	.0	.1	.4	1.5	2.9	5.9	3.3	2.8		15.2
60/64	.0	.1	.4	1.5	2.7	5.3	2.9	1.8		14.3
55/59	.0	.1	.3	1.3	1.9	3.1	1.7	1.1		8.7
50/54	.0	.1	.3	1.0	1.8	2.5	1.0	1.0		7.1
45/49	.0	.0	.2	.5	1.0	1.3	.8	.7		4.7
40/44	.0	.0	.1	.2	.7	.8	.3	.4		2.6
35/39	.0	.0	.0	.1	.2	.2	.2	.2		1.0
30/34	.0	.0	.0	.0	.0	.0	.1	.1		.3
25/29	.0	.0	.0	.0	.0	.0	.0	.0		.0
20/24	.0	.0	.0	.0	.0	.0	.0	.0		.0
15/19	.0	.0	.0	.0	.0	.0	.0	.0		.0
TOTAL PCT	.1	.4	2.9	9.0	18.9	28.1	20.2	17.1	89930	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
99/99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90/96	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
83/89	.1	.2	.1	.1	.3	.5	.4	.1	.0	.1
80/84	.4	1.1	1.3	1.1	2.0	3.9	1.8	.8	.0	.3
75/79	1.7	2.9	2.6	1.7	3.2	5.4	1.7	.8	.0	.4
70/74	2.1	2.6	1.8	1.3	2.9	5.0	1.8	.9	.0	.2
65/69	2.0	1.8	1.1	1.1	2.0	3.1	1.8	1.2	.0	.2
60/64	2.3	1.6	.8	.8	1.8	3.3	1.8	1.6	.0	.1
55/59	2.3	1.2	.5	.5	.9	.7	1.3	1.8	.0	.1
50/54	2.3	.9	.2	.3	.2	.4	1.1	1.8	.0	.1
45/49	1.8	.5	.1	.0	.1	.2	.6	1.4	.0	.0
40/44	1.1	.2	.0	.0	.0	.1	.3	.9	.0	.0
35/39	.6	.1	.0	.0	.0	.0	.1	.4	.0	.0
30/34	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
25/29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL PCT	17.3	13.0	8.4	6.8	12.9	19.8	12.8	11.8	.0	1.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00103	93	86	77	68	56	51	23	67.6	30033
06109	95	78	76	67	55	50	19	66.9	31676
12115	97	78	77	72	56	50	19	67.1	29919
18121	99	83	80	70	57	52	26	69.3	34807
TOT	99	81	78	69	56	51	19	67.6	126435

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00103	.1	11.8	17.9	20.6	27.2	18.8	76	21039
06109	.0	10.2	15.3	24.3	28.7	19.9	78	21300
12115	.1	10.4	16.6	28.7	27.8	19.8	77	21371
18121	.1	13.8	21.7	27.6	22.8	13.2	74	25178
TOT	.1	11092	16919	23417	23644	15693	76	89982

ANNUAL (cont.)

PERIOD: (PRIMARY) 1931-1971
(CY65-ALL) 1830-1972

TABLE 17

AREA 027/ CAPE HATTERAS
34.6N 76.0W

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	17	21	25	29	33	37	41	45	49	53	57	61	65	69	73	77	81	85	89	>92	TOT	W FOG	WO FOG
TMP DIF	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92				
20/24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	.0	.0	.0	*	.0	*
24/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	.0	.0	.0	*	*	*
28/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	.0	.0	*	*	*
32/36	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	*	.0	*	*	*
36/40	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
40/44	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
44/48	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
48/52	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
52/56	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
56/60	.0	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
60/64	.0	.0	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
64/68	.0	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
68/72	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
72/76	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
76/80	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
80/84	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
84/88	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
88/92	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
>92	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TOTAL																					12932		
PCT	*	*	*	.1	.4	1.1	2.1	3.4	5.1	8.2	7.8	9.0	10.0	13.9	13.8	25.2	9.6	2.1	.4	.1	100.0	1.3	98.9

PERIOD: (CY65-ALL) 1965-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.1	.4	.1	.0	.0	.0	.6
1-2	.1	1.8	1.3	.0	.0	.0	3.2
3-4	.0	1.1	3.2	.0	.0	.0	4.3
5-6	.0	.3	2.7	.1	.0	.0	3.1
7	.0	.1	1.3	1.0	.1	.0	2.3
8-9	.0	.0	.4	.0	.0	.0	1.2
10-11	.0	.0	.2	.0	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-27	.0	.0	.0	.0	.0	.0	.0
28-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0
>80	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.9	9.3	3.4	.2	.1	16.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.1	.3	.1	.0	.0	.0	.5
1-2	.1	1.8	1.4	.0	.0	.0	3.3
3-4	.0	1.0	3.1	.0	.0	.0	4.1
5-6	.0	.2	2.8	.1	.0	.0	3.1
7	.0	.1	1.3	1.0	.1	.0	2.5
8-9	.0	.0	.4	.0	.0	.0	1.4
10-11	.0	.0	.2	.0	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-27	.0	.0	.0	.0	.0	.0	.0
28-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0
>80	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	9.8	.8	.1	*	14.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.1	.3	.1	.0	.0	.0	.5
1-2	.1	1.8	1.4	.0	.0	.0	3.3
3-4	.0	1.0	3.1	.0	.0	.0	4.1
5-6	.0	.2	2.8	.1	.0	.0	3.1
7	.0	.1	1.3	1.0	.1	.0	2.5
8-9	.0	.0	.4	.0	.0	.0	1.4
10-11	.0	.0	.2	.0	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-27	.0	.0	.0	.0	.0	.0	.0
28-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0
>80	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	9.8	.8	.1	*	14.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.1	.3	.1	.0	.0	.0	.5
1-2	.1	1.8	1.4	.0	.0	.0	3.3
3-4	.0	1.0	3.1	.0	.0	.0	4.1
5-6	.0	.2	2.8	.1	.0	.0	3.1
7	.0	.1	1.3	1.0	.1	.0	2.5
8-9	.0	.0	.4	.0	.0	.0	1.4
10-11	.0	.0	.2	.0	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-27	.0	.0	.0	.0	.0	.0	.0
28-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0
>80	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.3	9.8	.8	.1	*	14.2

ANNUAL (cont.)

PERIOD: (OVER-ALL) 1963-1971 TABLE 18 (CONT) AREA 0017 CAPE HATTERAS 34.8N 74.8W

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

WHT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.1	.0	.1	.0	.0	.0	.2
1-2	.1	1.9	1.4	.0	.0	.0	3.4
3-4	*	1.0	2.6	.4	.0	.0	3.7
5-6	*	.2	1.6	.4	*	.0	2.1
7	.0	*	.6	.4	*	.0	1.0
8-9	.0	*	.2	.2	*	.0	.5
10-11	.0	.0	*	.2	*	.0	.3
12	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	*	.1	*	.0	.1
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	*	*	.0	*
23-25	.0	.0	.0	*	*	.0	*
26-32	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.9	6.1	1.8	.3	*	12.3

SW

WHT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.1	.3	.4	.1	*	*	.9
1-2	.1	1.8	1.0	.0	.0	.0	2.9
3-4	*	.8	1.2	.2	.0	.0	2.2
5-6	*	.2	1.2	.2	.0	.0	1.6
7	*	*	.7	.2	*	.0	1.0
8-9	.0	*	.3	.1	*	.0	.5
10-11	.0	*	.1	.1	*	.0	.2
12	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	*	*	*	.0	*
17-19	.0	.0	*	*	*	.0	*
20-22	.0	.0	*	*	*	.0	*
23-25	.0	.0	.0	*	*	.0	*
26-32	.0	.0	.0	*	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.1	6.0	2.0	.3	*	11.5

W

WHT	1-3	4-10	11-21	22-33	34-47	48+	PCT
CL	.1	.3	.4	.0	.0	.0	.7
1-2	.1	1.8	1.2	.0	.0	.0	3.0
3-4	*	.8	1.2	.3	.0	.0	2.3
5-6	*	.2	1.0	.3	*	.0	1.5
7	*	*	.6	.1	*	.0	1.0
8-9	.0	*	.3	.1	*	.0	.5
10-11	.0	*	.1	.1	*	.0	.2
12	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	*	*	*	.0	*
17-19	.0	.0	*	*	*	.0	*
20-22	.0	.0	*	*	*	.0	*
23-25	.0	.0	.0	*	*	.0	*
26-32	.0	.0	.0	*	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.1	4.0	2.0	.3	*	11.3

WHT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
CL	.1	.3	.4	.0	.0	.0	.8	
1-2	.1	1.8	1.2	.0	.0	.0	3.2	
3-4	*	.8	1.2	.3	.0	.0	2.3	
5-6	*	.2	1.0	.3	*	.0	1.5	
7	*	*	.6	.1	*	.0	1.0	
8-9	.0	*	.3	.1	*	.0	.5	
10-11	.0	*	.1	.1	*	.0	.2	
12	.0	.0	*	.1	*	.0	.1	
13-16	.0	.0	*	*	*	.0	*	
17-19	.0	.0	*	*	*	.0	*	
20-22	.0	.0	*	*	*	.0	*	
23-25	.0	.0	.0	*	*	.0	*	
26-32	.0	.0	.0	*	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.1	6.0	2.0	.3	*	11.5	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

WHT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
CL	2.1	4.8	.4	.0	.0	.0	7.2	
1-2	.8	12.7	9.3	.0	.0	.0	22.8	
3-4	.2	7.6	17.4	2.7	.0	.0	28.0	
5-6	*	1.6	12.4	8.7	.2	.0	15.9	
7	*	.4	5.4	4.6	.4	*	10.6	
8-9	.0	.1	2.0	2.8	.5	*	5.4	
10-11	.0	*	.7	1.0	.3	*	2.2	
12	.0	*	.2	.8	.4	*	1.5	
13-16	.0	*	.1	.7	.3	.1	1.4	
17-19	.0	*	*	.1	.2	*	.3	
20-22	.0	.0	*	*	.1	*	.2	
23-25	.0	.0	*	*	.1	*	.1	
26-32	.0	.0	*	*	*	*	*	
33-40	.0	.0	.0	.0	*	*	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.1	27.3	49.7	19.7	2.9	.2	103.0	72176

PERIOD: (OVER-ALL) 1963-1971 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	CL	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
0-2	3.1	14.3	14.1	8.3	2.9	1.1	.5	.7	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	47187	3
3-4	.1	1.7	5.7	9.1	8.2	2.8	1.2	.5	.4	.1	*	*	*	*	.0	.0	.0	.0	.0	18442	6
5-6	*	.1	1.1	2.2	2.7	4.1	1.2	.7	.6	.1	*	*	*	*	*	.0	.0	.0	.0	12858	7
7-8	.0	.0	.3	.5	.6	.9	.6	.6	.4	.2	.1	*	*	*	*	*	.0	.0	.0	4842	8
10-11	.0	.0	.0	.1	.2	.2	.2	.3	.2	.1	.1	*	*	*	*	*	.0	.0	.0	1309	8
12-15	.0	*	.0	.0	.1	.1	.1	.1	.1	.1	*	*	*	*	*	*	.0	.0	.0	731	12
16+	.0	*	.0	.0	.1	.1	.1	.1	.1	*	*	*	*	*	*	*	.0	.0	.0	64070	3
UNDET	2.9	1.0	.3	.0	.4	.2	.1	.1	.1	*	*	*	*	*	*	*	.0	.0	.0	96.37	3
TOTAL PCT	6.1	17.6	27.3	21.0	12.8	7.7	3.8	2.5	2.1	.6	.3	.1	.1	*	.0	.0	.0	.0	.0	100.0	

ANNUAL (cont.)

PERIOD: (PRIMARY) 1931-1971
(OVER-ALL) 1934-1971

TABLE 20

AREA 0017 CAPE HATTERAS
34.8N 76.0W

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
984	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0
91/92	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	.0	4	*
89/90	.0	.0	.0	.0	.0	.1	.2	.3	.1	.0	.0	.0	71	.1
87/88	.0	.0	.0	.0	*	.2	1.1	2.4	1.1	.2	*	.0	328	.4
85/86	.0	.0	.1	*	.1	1.3	8.0	13.5	7.7	1.0	.1	*	2588	2.9
83/84	*	*	*	.1	.0	7.7	24.9	30.4	22.2	7.0	.4	*	9336	7.7
81/82	.1	.1	.1	.4	.4	19.3	27.9	26.2	29.3	17.8	3.7	.3	12859	10.3
79/80	.3	.3	.2	1.2	11.9	21.6	19.0	14.8	18.8	21.6	14.1	3.1	13327	10.9
77/78	3.4	2.9	3.0	6.3	16.8	18.2	9.5	6.4	9.1	19.8	18.7	10.8	12817	10.2
75/76	11.4	9.5	9.3	14.3	15.9	12.8	4.4	3.5	6.3	10.0	17.3	17.7	13796	11.1
73/74	16.8	14.0	14.0	13.5	11.9	7.3	2.1	1.3	4.9	6.8	12.1	16.9	12540	10.1
71/72	16.9	13.4	12.4	10.5	9.1	4.2	1.3	.4	2.6	3.2	6.9	13.3	9839	7.8
69/70	14.1	13.2	12.1	9.8	7.0	3.2	.4	.3	1.3	3.4	5.0	10.7	8471	6.8
67/68	9.7	10.3	10.7	6.6	4.3	2.1	.2	*	.5	2.8	4.7	9.2	6002	4.8
65/66	5.1	7.0	8.6	5.0	4.2	1.3	*	*	.2	2.6	4.1	5.0	4877	3.9
63/64	3.2	4.2	4.0	4.1	3.6	1.0	.0	.0	.1	1.8	4.1	2.2	2994	2.4
61/62	1.8	2.8	2.8	3.1	2.4	.6	.0	.0	*	.6	3.4	2.4	2014	1.6
59/60	2.3	2.4	2.2	4.4	2.3	.2	.0	.0	*	.3	2.9	3.0	2063	1.7
57/58	2.0	1.7	2.0	2.8	2.0	.2	.0	.0	.0	.2	1.6	2.8	1788	1.5
55/56	2.2	2.1	2.4	2.7	1.4	.1	.0	.0	.0	*	.7	3.0	1508	1.2
53/54	2.0	2.0	2.4	2.4	1.1	.1	.0	.0	.0	.0	.2	2.6	1314	1.1
51/52	1.9	2.1	2.3	2.4	.9	*	.0	.0	.0	.0	.1	1.4	1106	.9
49/50	2.6	3.0	2.9	2.4	.4	.0	.0	.0	.0	.0	.1	1.2	1266	1.0
47/48	2.2	2.1	2.0	1.6	.1	.0	.0	.0	.0	.0	.0	.3	970	.8
45/46	1.9	2.0	2.2	1.5	.1	.0	.0	.0	.0	.0	.0	.2	903	.8
43/44	1.1	1.9	2.1	.6	*	.0	.0	.0	.0	.0	.0	.1	598	.5
41/42	.8	1.1	1.2	.1	.0	.0	.0	.0	.0	.0	.0	*	312	.3
39/40	.3	.7	.7	.1	.0	.0	.0	.0	.0	.0	.0	*	185	.2
37/38	.1	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	90	*
35/36	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	*
33/34	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	*
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	9859	9487	11038	10992	11247	10831	10178	10309	10038	10420	10495	9891	124161	100.0
MEAN	67.4	66.1	65.6	68.1	72.7	77.6	81.1	82.0	80.6	76.9	73.3	70.1	73.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (EST)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1019	1020	1019	1018	1019	1021	1018	1019	1019	9901
FEB	1017	1017	1017	1017	1018	1018	1018	1017	1017	9194
MAR	1016	1016	1016	1015	1017	1016	1016	1015	1016	10702
APR	1017	1018	1017	1016	1017	1018	1017	1016	1017	10794
MAY	1017	1017	1017	1014	1017	1018	1017	1016	1017	10848
JUN	1016	1017	1016	1016	1017	1017	1017	1016	101'	10673
JUL	1017	1018	1018	1016	1019	1018	1018	1017	1018	9884
AUG	1018	1017	1017	1017	1017	1019	1017	1017	101'	9938
SEP	1017	1018	1018	1017	1018	1018	1018	1017	101'	9316
OCT	1017	1018	1017	1016	1017	1017	1017	1017	1017	9851
NOV	1318	1018	1018	1018	1018	1019	1018	1017	1018	10032
DEC	1019	1019	1019	1018	1019	1021	1019	1018	1019	8836
ANN	1017	1018	1017	1017	1018	1018	1018	1017	1017	119367
OBS	26454	1932	26026	2443	28349	1859	31505	2388		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	984	996	1003	1014	1019	1025	1031	1035	1044
FEB	984	993	1002	1012	1018	1023	1031	1033	1041
MAR	985	996	1003	1011	1016	1021	1028	1033	1041
APR	992	998	1004	1012	1017	1022	1028	1031	1035
MAY	998	1002	1008	1013	1017	1021	1025	1030	1036
JUN	998	1003	1009	1014	1017	1019	1023	1026	1031
JUL	1001	1007	1011	1015	1018	1020	1024	1026	1031
AUG	972	1006	1010	1015	1017	1019	1023	1025	1033
SEP	998	1004	1009	1013	1018	1021	1024	1027	1034
OCT	993	1000	1005	1013	1018	1022	1027	1030	1037
NOV	998	1000	1006	1013	1019	1023	1028	1032	1039
DEC	990	998	1005	1014	1020	1024	1030	1034	1044

CEILING VISIBILITY WIND TABULATION

This summary is prepared by the National Climatic Center in accordance with the particular project specifications. The tabulation presents a distribution of ceiling, visibility and wind speed by direction to 16 points and calm. The complete tabulation consists of 17 separate summaries - one for each direction and calm for the period of record.

This format is similar to the annual table for surface winds meeting specified ceiling and visibility conditions of the SMOS (Part C) or the USAF "C" Summary.

CEILING VISIBILITY WIND TABULATION

STATION: CEDAR RAPIDS, IOWA 24 OBSERVATIONS HOURS: PER DAY PERIOD: JANUARY 1964 - DECEMBER 1968

DIR. (10 DEG)	CEILING (Feet)	WIND SPEED CLASSES (M.P.H.)	VISIBILITY IN MILES							TOTAL OBSERVATIONS
			0-1/4	1/4-1/2	1/2-7/8	1	1 1/8-1 1/2	1 3/4-2 1/2	3+	
30N	1000+	01-04					2		57	59
		05-09				3	4	7	1091	1103
		10-14				2		4	652	658
		15-29				1	2	4	992	1001
		30+							3	3
		TOT.				6	8	17	2797	2829
	600-900	01-04								
		05-09					3	3	18	24
		10-14				1	4	1	23	33
		15-29				1	1	2	39	43
		30+			1	1				2
		TOT.			1	3	8	14	63	89
	300	01-04								
		05-09				1			6	7
		10-14				1	1		2	4
		15-29		1			3	1	7	13
		30+								
		TOT.		1		2	4	1	15	24
	400	01-04								
		05-09				1		1	3	5
		10-14		1	1	1		2	5	10
		15-29		1		1	1		4	7
		30+								
		TOT.		2	1	4	1	3	12	23
	300	01-04								
		05-09		2		2	3			7
		10-14			1	1	3	1	3	9
		15-29								
		30+								
		TOT.		2	1	3	6	1	3	16
	200	01-04								
		05-09	1	1			1			3
		10-14	1	1	1					3
		15-29	1							1
		30+								
		TOT.	3	2	1		1			7
	0-100	01-04								
		05-09	1	3						8
		10-14	1	2		2				5
		15-29		1						2
		30+								
		TOT.	2	6		2				15
TOTAL BY VISIBILITY			10	13	4	20	27	36	3093	3203
WIND SPEED CLASSES				01-04	05-09	10-14	15-29	30+	CALM	
TOTAL FREQUENCY				39	1151	973	1045	7		3203
PERCENTAGE FREQUENCY				1.2	35.9	30.4	32.6	0.2		100
PERCENT BY DIRECTION AND TOTAL									96.6	63648

WORLD-WIDE AIRFIELD SUMMARIES

These summaries were prepared by the Environmental Technical Applications Center (ETAC), Air Weather Service, and were provided in the form of magnetic tape. They were compiled into book form, by country or geographical area, for promulgation to Naval Weather Service Units. These summaries constitute a series of compilations which are world-wide in scope. It consists of climatological summaries for selected airfields and for the climatic areas in which they are located. The series includes data for approximately 4,000 stations and consist of 12 volumes. Copies of these volumes are available from the Defense Documentation Center (DDC) or the National Technical Information Service (NTIS). The pages are generally self-explanatory with an introduction in each volume.

In this summary series, the "period of record" varies considerably for any given station between particular elements summarized. For example, the period of record for temperature may not be the same as that for cloud cover. This fact renders the normal use of numbers in the columns under the summaries meaningless. Hence, a letter is utilized under the World-wide Airfield Summary Column in an attempt to provide the specific volume of the series in which a station is located.

The following table identifies the volumes and titles of the series by a letter.

	Vol. No.	Title	DDC Accession No.
A	I	Southeast Asia (Revised)	AD 706-355
B	II	Middle East (Revised)	AD A002-162 & 163
C	V	Australia, New Zealand and South Pacific Islands	AD 662-648
D	VIII	United States	
		West Coast	AD 668-472
		Rocky Mountains	AD 689-792
		Plains	AD 693-491
		Great Lakes	AD 696-971
		Mississippi Valley	AD 699-917
		Southeast	AD 701-719
		East Coast	AD 703-606
		Alaska & Hawaii	AD 704-607
E	IX	Africa	AD 682-915
F	VI	South America	AD 664-828 & 829
G	IV	Canada, Greenland, Iceland	AD 662-424
H	VII	Central America	AD 671-845
I	X	Europe	
		Scandinavia	AD 719-907
		British Isles	AD 719-908
		Southwest Europe	AD 720-708
		Mediterranean	AD 720-160
J	III	Far East	AD 662-426
K	XI	Eastern Europe & USSR	AD 776-611 & 612
L	XII	China	AD 776-615 & 616

World-Wide Airfield Summaries (cont.)

DARWIN, AUSTRALIA

STA NO. 94120 (IN AREA NUMBER 01) LATITUDE 12255 LONGITUDE 130952E ELEVATION(FT) 00104

PARAMETER DESCRIPTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	POR (YRS)	NO. OBS
ABS MAX TMP (F)	100	101	102	104	102	99	96	98	102	105	103	102	105	99	=920
MEAN MAX TMP (F)	90	90	91	92	91	88	87	89	91	93	94	92	91	98	=28
MEAN MIN TMP (F)	77	77	77	76	73	69	67	70	74	77	78	78	74	98	=28
ABS MIN TMP (F)	68	69	68	64	58	55	56	57	63	69	67	69	55	98	=920
MEAN NO DYS TMP = OR GTR 90(F)	14.6	7.9	14.6	10.2	14.1	3.6	4.1	6.5	13.5	22.2	24.4	19.8	140.5	10	3651
MEAN NO DYS TMP = OR LES 32(F)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	3649
MEAN NO DYS TMP = OR LES 01(F)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	3649
MEAN DEW PT TMP (F)	73	73	73	71	69	69	68	61	67	72	74	73	69	10	29904
MEAN REL HUM (PCT)	79	76	73	62	55	54	52	54	57	59	63	69	62	97	=28
MEAN PRESS ALT (FT)	400	350	300	250	200	230	150	200	200	250	300	350	267	0	=90
MEAN PRECIP (IN)	19.20	12.30	10.00	3.00	0.60	0.10	0.03	0.10	0.50	2.00	4.70	9.60	90.7	70	=28
MEAN SNOW FALL (IN)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98	=29
MEAN NO DYS PRCP = OR GTR 0.1 IN	18.0	16.0	15.5	11.3	6.0	1.5	1.2	1.5	1.2	2.7	11.4	15.2	107.5	70	=29
MEAN NO DYS SNFL = OR GTR 1.0 IN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	98	=29
MEAN NO DYS W/OCUR VSBY LES 1/2 MI	0.3	0.2	0.0	0.2	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.2	1.0	10	3644
MEAN NO DYS TSTMS	10.1	8.8	10.6	4.2	0.0	0.2	0.1	0.0	0.0	0.1	11.0	12.2	61.0	10	3651
P FREQ WND SPD = OR GTR 17 KTS	2.2	2.9	1.6	2.3	2.6	2.0	2.4	2.0	2.2	0.8	0.8	1.9	2.0	10	29510
P FREQ WND SPD = OR GTR 28 KTS	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	10	29510
P FREQ LES 5000 FT A/O LES 5 MI	9.1	11.8	7.9	6.3	1.6	1.0	2.0	1.8	3.3	5.1	9.1	7.5	5.2	10	29423
P FREQ LES 1000 FT A/O LES 1 MI															
FOR 00-02 LST	4.2	3.9	1.4	2.9	0.8	0.9	0.5	0.8	0.4	0.5	0.6	2.2	1.4	7	2368
03-05 LST	2.9	3.3	2.6	2.8	0.9	0.8	1.0	0.3	0.7	1.0	1.9	1.9	1.4	10	3639
06-08 LST	3.9	4.2	1.9	1.8	0.3	0.7	0.3	0.6	0.7	0.8	1.0	2.3	1.3	10	3649
09-11 LST	2.6	3.8	1.9	2.3	0.3	0.3	0.4	0.8	0.8	0.3	0.8	1.9	1.1	10	3642
12-14 LST	1.9	4.2	1.3	2.2	0.3	0.8	0.3	0.8	0.3	0.6	0.8	4.2	1.3	10	3643
15-17 LST	2.6	3.9	1.8	1.7	0.3	0.8	0.3	0.8	0.8	0.8	0.3	1.6	1.0	10	3647
18-20 LST	1.3	3.2	1.6	1.3	0.9	0.8	0.8	0.3	0.8	0.8	0.8	0.3	0.6	10	3642
21-23 LST	3.1	5.1	0.8	2.1	0.8	0.8	0.4	0.8	0.8	0.8	0.8	2.4	1.2	4	1279
P FREQ LES 300 FT A/O LES 1 MI															
FOR 00-02 LST	0.3	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	7	2368
03-05 LST	0.8	0.8	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10	3639
06-08 LST	0.3	0.3	0.8	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.3	10	3649
09-11 LST	0.3	1.1	2.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.2	10	3642
12-14 LST	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2	10	3643
15-17 LST	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	10	3647
18-20 LST	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	10	3642
21-23 LST	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4	1279

001

World-Wide Airfield Summaries (cont.)

DARWIN, AUSTRALIA

MEAN NUMBER OF DAYS

PARAMETER DESCRIPTION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	POR (YRS)	NO. OBS
CIG = 6TH 1000 FT AND	09 LST	30.2	26.9	30.4	29.8	31.0	29.8	30.9	30.1	29.5	30.6	29.9	30.7	359.8	10	3650
VSBY = 6TH 3 MI	15 LST	30.9	27.8	30.7	29.6	30.8	29.6	31.0	30.8	29.7	30.5	29.9	30.1	361.8	10	3650
	21 LST	30.7	27.2	31.0	29.4	31.0	29.8	31.0	31.0	29.9	30.6	29.8	30.7	362.1	10	3642
	03 LST	30.3	26.8	30.4	29.1	30.9	29.8	31.0	31.0	29.8	30.6	29.8	30.7	360.2	10	3650
CIG =6TH 2000 FT AND VSBY =6TH	09 LST	24.9	22.5	27.0	23.9	29.0	21.6	23.3	25.2	26.7	28.3	27.7	26.1	302.2	10	3650
3 MI W/SFC WND LES 10 KTS	15 LST	19.0	12.7	18.8	14.2	11.4	13.4	13.8	18.3	7.8	18.0	13.6	19.8	194.8	10	3650
	21 LST	24.8	22.1	27.1	27.8	29.9	28.4	29.7	29.3	27.6	29.2	26.9	26.1	324.9	10	3642
	03 LST	24.1	21.2	26.8	26.6	29.4	27.6	29.8	29.7	29.1	28.9	27.6	26.8	329.8	10	3650
SFC WND = 6TH 17 KTS AND	09 LST	0.4	0.6	0.3	0.8	0.3	0.7	0.1	0.3	0.0	0.0	0.0	0.2	2.9	10	3652
NO PRECIP.	15 LST	0.9	1.1	0.8	0.8	1.7	1.8	1.9	1.3	1.8	0.8	0.9	0.8	14.4	10	3652
	21 LST	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.1	10	3644
	03 LST	0.4	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.6	10	3652
SFC WND =-10 KTS AND THP 33-99	09 LST	10.7	11.9	14.6	17.8	19.9	20.4	17.8	17.3	10.9	10.1	17.7	15.3	204.4	10	3652
DEG F AND NO PRECIP.	15 LST	11.7	13.4	13.9	12.9	13.9	17.4	10.4	14.3	11.8	11.8	8.4	9.8	156.9	10	3652
	21 LST	13.5	12.7	11.7	9.5	11.9	12.1	12.8	13.8	14.2	21.1	17.4	15.6	167.9	10	3649
	03 LST	12.7	9.8	9.7	8.5	11.7	11.9	10.5	8.7	9.7	13.5	12.4	12.8	130.4	10	3661
SKY COVER LES 3/10 AND	09 LST	3.6	8.9	9.6	6.6	16.7	18.6	20.1	18.8	17.5	9.6	9.1	3.3	123.4	10	3651
VSBY = 6TH 3 MI	15 LST	1.9	1.8	2.7	3.2	12.8	14.8	16.6	18.7	17.6	13.6	6.4	2.9	112.8	10	3650
	21 LST	3.7	1.8	8.4	13.3	22.3	21.3	24.8	24.8	24.1	18.5	8.9	4.7	175.8	10	3647
	03 LST	7.8	3.8	9.2	15.8	22.4	22.1	24.1	23.8	20.6	17.7	11.7	6.8	169.8	10	3651
CIG = 6TH 2500 FT AND	09 LST	28.9	25.9	29.1	29.4	30.9	29.6	30.7	30.8	29.2	29.3	29.0	29.3	350.9	10	3650
VSBY = 6TH 3 MI	15 LST	29.3	25.9	29.1	28.4	30.8	29.6	30.8	30.8	29.7	30.3	29.6	29.3	354.8	10	3650
	21 LST	30.1	26.3	30.7	29.1	31.0	29.8	30.9	31.0	29.9	30.4	29.5	30.2	358.9	10	3642
	03 LST	28.9	25.3	29.9	28.5	30.9	29.7	30.3	30.8	28.9	29.5	29.1	29.9	351.3	10	3650
CIG = 6TH 6000 FT AND	09 LST	28.1	24.4	28.4	29.1	30.6	29.2	30.8	29.5	28.5	27.1	27.9	28.4	341.2	10	3650
VSBY = 6TH 3 MI	15 LST	27.3	23.7	26.9	28.7	29.7	29.1	30.3	30.1	29.2	29.7	28.4	28.3	339.8	10	3650
	21 LST	29.7	25.8	29.9	28.1	30.7	29.7	30.8	30.7	29.9	30.1	29.8	29.7	354.9	10	3642
	03 LST	28.1	24.2	28.9	28.2	30.4	29.1	29.6	30.2	27.3	28.2	28.8	29.0	341.1	10	3650
CIG = 6TH 10000 FT AND	09 LST	28.1	24.4	28.4	29.1	30.6	29.1	29.8	29.3	28.3	26.8	27.8	28.4	340.3	10	3650
VSBY = 6TH 3 MI	15 LST	27.3	23.7	26.9	28.7	29.7	29.8	30.2	30.9	29.2	29.7	28.0	28.3	339.7	10	3650
	21 LST	29.7	25.9	29.8	28.8	30.7	29.4	30.3	30.3	29.7	30.1	29.8	29.5	352.8	10	3642
	03 LST	28.3	24.2	28.8	28.2	30.3	29.8	29.1	29.9	27.3	28.2	28.8	28.9	339.7	10	3650

World-Wide Airfield Summaries (cont.)

AREA NO. 01

AUSTRALIA — NORTHERN COAST — LATITUDE 17°00S — LONGITUDE 132°00E

BOUNDARIES 24°00S 113°00E, 29°00S 116°00E, 29°00S 116°00E, 20°00S 123°00E, 20°00S 137°00E
20°00S 137°00E, 29°00S 140°00E, 29°00S 140°00E, 22°00S 149°30E

PARAMETER DESCRIPTION		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
MEAN MAX TMP (F)		94	93	93	90	85	81	80	84	89	93	95	95	89
MEAN MIN TMP (F)		76	76	74	69	63	58	56	59	64	70	74	76	68
LARGEST MEAN PRECIP(IN)		10.20	19.00	10.10	11.50	4.40	3.10	1.70	1.70	1.70	2.10	4.70	9.40	92.2
SMALLEST MEAN PRECIP(IN)		0.90	1.10	1.00	0.30	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.20	4.7
		MEAN NUMBER OF DAYS												
CIG = GTR 1000 FT AND	09 LST	30.4	27.2	30.1	29.6	30.7	29.7	30.6	30.8	29.8	30.7	29.9	30.6	360.1
VSBY = GTR 3 MI	15 LST	30.3	27.5	30.3	29.8	30.7	29.8	30.8	31.0	29.8	30.7	29.9	30.7	361.3
	21 LST	30.5	27.5	30.6	29.8	30.8	29.8	30.7	30.8	29.7	30.8	29.9	30.8	361.7
	03 LST	30.3	27.4	30.6	29.7	30.8	29.7	30.4	30.4	29.1	30.6	29.8	30.8	359.4
CIG =GTR 2000 FT AND VSBY =GTR	09 LST	21.2	19.7	21.3	19.7	19.6	18.1	18.9	19.4	16.7	17.6	18.5	20.2	230.9
3 MI W/SFC WND LES 10 KTS	15 LST	19.1	16.3	16.3	16.9	18.7	17.6	18.1	16.7	13.3	12.6	13.1	16.5	187.2
	21 LST	20.3	18.8	22.5	24.3	26.7	29.2	26.2	26.4	22.4	21.9	19.8	20.8	279.5
	03 LST	29.1	21.6	29.9	29.2	26.1	24.3	24.6	26.0	23.9	25.8	26.3	26.6	296.6
SFC WND = GTR 17 KTS AND	09 LST	1.1	1.0	1.0	1.3	1.5	1.7	1.9	2.0	2.6	2.3	1.3	0.9	18.2
NO PRECIP.	15 LST	2.1	1.6	1.6	1.3	1.6	1.7	1.9	1.8	2.3	2.2	2.2	2.3	23.2
	21 LST	1.0	1.2	1.4	0.3	0.4	0.5	0.4	0.4	0.9	1.0	1.3	1.6	11.2
	03 LST	0.6	0.7	0.6	0.5	0.5	0.7	0.6	0.5	0.6	0.7	0.5	0.7	7.2
SFC WND 4-10 KTS AND TMP 33-99	09 LST	12.6	11.6	13.4	10.0	17.0	16.6	17.0	16.4	15.4	15.3	14.4	13.0	178.7
DEG F AND NO PRECIP.	15 LST	8.0	8.1	8.4	12.0	16.9	17.7	18.1	16.7	11.0	8.8	8.2	7.5	141.4
	21 LST	10.2	9.2	10.5	14.2	14.8	15.3	16.7	16.3	14.7	12.6	11.8	10.5	156.8
	03 LST	11.5	9.4	11.1	12.2	12.8	13.2	13.9	12.5	12.4	13.2	13.2	11.7	147.1
SKY COVER LES 3/10 AND	09 LST	8.1	5.6	11.3	13.5	19.6	17.8	18.5	20.1	19.8	16.3	13.3	9.8	160.9
VSBY = GTR 3 MI	15 LST	7.3	4.9	9.1	10.8	13.8	16.5	18.3	19.6	19.9	17.8	13.4	9.7	161.1
	21 LST	9.4	7.2	13.2	15.2	19.2	19.3	21.2	23.4	22.8	21.2	17.6	13.1	203.8
	03 LST	11.1	8.9	14.3	17.4	23.0	23.6	21.1	22.9	22.1	19.9	16.8	12.9	208.0
CIG = GTR 2900 FT AND	09 LST	29.0	26.6	28.1	29.0	29.5	28.3	29.2	29.9	28.7	29.1	28.5	28.3	340.2
VSBY = GTR 3 MI	15 LST	28.6	25.1	28.4	28.7	29.9	28.7	30.2	30.4	29.3	30.2	29.3	29.7	348.9
	21 LST	28.8	25.4	29.0	28.5	29.9	28.5	29.8	30.3	28.7	29.8	29.2	29.2	347.1
	03 LST	26.7	25.1	28.8	28.9	29.7	28.3	28.9	29.6	27.9	29.9	28.6	28.9	342.5
CIG = GTR 6000 FT AND	09 LST	29.9	22.8	26.4	26.4	28.3	26.4	27.8	27.9	27.8	26.9	26.6	26.6	318.2
VSBY = GTR 3 MI	15 LST	29.9	23.9	29.6	26.4	28.3	27.8	28.3	29.2	28.8	28.6	27.8	27.8	326.8
	21 LST	27.4	23.6	27.5	27.2	28.6	28.9	27.8	28.7	27.7	28.7	27.9	27.9	329.9
	03 LST	27.8	23.8	27.8	27.3	28.3	28.7	28.4	28.8	28.7	27.8	27.3	27.2	322.7
CIG = GTR 10000 FT AND	09 LST	29.7	22.3	26.1	26.3	28.1	26.1	26.4	27.6	26.7	26.7	26.4	26.4	314.8
VSBY = GTR 3 MI	15 LST	29.9	23.2	29.9	25.7	27.9	26.5	27.7	28.9	27.5	27.8	26.6	25.5	314.6
	21 LST	26.9	23.8	27.1	26.9	28.2	28.1	27.2	28.4	27.3	28.4	27.7	27.3	324.5
	03 LST	26.7	22.6	26.5	27.2	28.0	26.5	25.8	27.7	26.5	27.5	26.9	26.6	318.5

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

(SMOS)

This standard summary is prepared from Navy and Marine Corps surface meteorological records. The ava able period of record for most stations begins after 1949. These summaries are routinely updated after each additional five years of record becomes available. Examples of the different bivariate percentage frequency distributions for the various parameters are provided in the following pages. The format of each of the examples is essentially self-explanatory.

Part A - Weather Conditions/Atmospheric Phenomena

Part B - Precipitation/Snowfall/Snow Depth

Part C - Surface Winds

Part D - Ceiling versus Visibility/Sky Cover

Part E - Psychrometric Summaries

Part F - Station Pressure/Sea Level Pressure

The current SMOS summaries are available on microfiche from DDC/NTIS. Defense Documentation Center (DDC), Cameron Station, Alexandria, VA 22314 or National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161.

Part "A" Summary: Weather Conditions

This summary consists of the percentage-frequency of occurrence of various atmospheric phenomena and obstructions to vision derived from hourly observations and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

22516 BARBERS POINT, HAWAII NWSED 49-70 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	00-02	.5	6.0				6.0		.3			.3	1952
	03-05	.5	6.2				6.2		.4			.4	1953
	06-08	.4	6.1				6.1		.3			.3	2046
	09-11	.3	5.4				5.4		.3			.3	2046
	12-14	.4	5.2				5.2		.3			.3	2045
	15-17	.2	5.0				5.0		.3			.3	2043
	18-20	.1	4.5				4.5		.4			.4	2046
	21-23	.4	5.1				5.1		.5			.5	1984
TOTALS		.4	5.4				5.4		.4			.4	16115

Part "A" (cont.)

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

22514 | BARBERS POINT, HAWAII NWSED | JANUARY 49 - DECEMBER 70 | JANUARY | ALL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SNOWFLAKES ICE CRYSTALS	SNOW GRAINS SNOW PELLETS SNOW BERG	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	2.4	3.1						.5						94.5
NNE	1.6	2.9						.1						95.5
NE	.8	1.9	.1					.1			.4			96.8
ENE	.6	3.0						.3			.0			96.3
E	2.1	4.3	.1					.2						93.4
ESE	2.3	4.2						1.9						93.5
SE	2.3	3.3	.2								.3			93.9
SSE	2.4	3.6												94.0
S	2.4	5.2						1.3			.3			91.6
SSW	2.1	6.2						1.2			2.9			88.1
SW	2.3	6.3	.1					.5			1.4			89.9
WSW	3.0	7.3						.7			1.2			88.5
W	1.9	7.5						.9			.7			90.0
WNW	1.6	9.7						.8						88.7
NW	2.1	8.5	.4											88.9
NNW	1.3	4.0												94.7
VARIABLE														
CALM	2.5	2.5						.6			.6			94.9
TOTAL	252	618	.6					58			58			15169
% TOTAL	1.6	3.8	.0					.4			.4			94.1

TOTAL NUMBER OF OBSERVATIONS 16,115

Part "B" Summary: Precipitation, Snowfall and Snow Depth

This summary presents in two sets of tables the daily amounts and extreme values of the following: Precipitation, Snowfall, and Snow Depth; all derived from daily observations.

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF PRECIPITATION (FROM DAILY OBSERVATIONS)

22514 (STATION) BARBERS POINT, HAWAII (WSFO) (STATION NAME) 49-70 (YEARS)

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS.	MONTHLY AMOUNTS (INCHES)		
PERIOD	NONE	TRACE	.01	.02 .04	.05 .09	.10 .19	.20 .39	.40 1.00	1.01 2.00	2.01 3.00	3.01 5.00	5.01 10.00	OVER 10.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	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 20.4	20.5 30.4	OVER 30.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	53.9	17.9	4.3	5.4	5.3	5.4	3.8	1.8	2.3	1.5	.4			30.2	642	4.58	24.09	.47
FEB	52.5	22.9	3.5	7.6	3.7	3.5	1.6	1.9	2.4	.3				24.6	623	2.24	9.98	TRACE
MAR	60.7	19.1	2.2	5.4	3.2	2.6	2.2	2.2	1.6	.6		.1		20.2	642	2.87	17.27	.01
APR	56.2	23.9	4.4	6.8	2.9	2.4	1.4	.9	.6	.5				19.8	660	1.27	12.03	.03
MAY	65.2	25.6	2.8	4.7	1.3	1.6	1.8	.6	.4					13.2	682	.70	4.41	TRACE
JUN	63.6	28.0	2.0	3.8	1.2	.8	.3	.3						8.3	660	.20	1.13	TRACE
JUL	58.7	26.3	2.9	7.2	2.2	1.8	.8		.2					15.1	651	.36	1.24	.01
AUG	63.5	23.5	3.7	5.7	1.9	.9	.3	.3	.3					13.0	682	.38	2.09	TRACE
SEP	62.7	25.4	3.0	4.4	1.6	1.4	1.0	.2	.3					11.9	630	.40	1.65	.02
OCT	60.0	21.6	3.8	5.7	2.3	2.9	1.0	1.3	1.2	.1				18.5	682	1.44	5.60	TRACE
NOV	54.8	23.3	3.0	6.2	3.9	2.9	1.5	1.4	2.4	.3	.2			23.8	660	2.57	11.71	.01
DEC	50.7	23.3	2.8	7.3	3.1	4.4	2.2	2.9	2.8	.4				26.0	682	3.04	8.04	.10
ANNUAL	58.4	23.1	3.2	5.8	2.7	2.5	1.5	1.1	1.2	.3	.0	.0		18.5	7974	20.05		

Part "B" (cont.)

EXTREME VALUES

PRECIPITATION
(Over many observations)

22514 (Station) BARBERS POINT, HAWAII (NASF) (Station name) 49-70 (Years)

24 HOUR AMOUNTS IN INCHES

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
49	5.05	3.14	.10	.04	.03	.27	.20	.05		.15	.07	1.73	
50	4.43	.77	.60	.92	.89	.20	.05	.23	.05	.07	.12	2.69	4.43
51	.58	1.88	3.47	.33	.02	.17	.10	.33	1.37	2.09	.13	1.84	3.47
52	3.44	TRACE	.28	.02	.48	.05	.42	TRACE	.02	1.25	.34	.24	3.44
53	.33	.78	.80	.03	.26	TRACE		TRACE	.08	.01	.02	1.65	
54	.27	1.39	1.04	2.87	.04	.03	.12	.11	.60	.11	7.03	.75	7.03
55	2.57	4.62	3.39	.22	.57	.01	.01	.07	.18	.72	1.14	2.70	4.62
56	3.07	1.84	.07	.24	.47	TRACE	1.21	.13	.10	.23	2.17	2.34	3.07
57	3.97	.19	.07	.48	TRACE	.07	.05	.08	.02	TRACE	2.45	1.68	3.97
58	.22	1.15	10.51	.07	.05	.10	.19	.64	.10	2.11	.05	1.14	10.51
59	1.47	2.20	.08	.08	.48	.03	.09	1.90	.15	.73	1.09	.08	2.20
60	.18	.10	.53	.02	1.55	.08	.21	.08	.34	.91	.14	.82	1.55
61	2.55	.31	.16	.45	.08	.31	.17	.04	.11	1.60	.58	1.07	2.55
62	1.36	1.08	1.75	1.24	.34	.20	.03	.13	.14	1.24	.01	1.68	1.75
63	3.25	.62	2.20	3.01	.98	.98	.16	.10	1.05	.11	.19	.75	5.25
64	1.53	.03	1.25	.71	.12	.02	.18	.07	.10	.05	2.30	1.47	2.30
65	1.19	.35	.33	.27	1.94	.03	.33	.11	.45	3.98	3.60	3.97	3.98
66	.81	1.88	.29	.24	.22	.03	.05	.07	.27	.37	2.14	.47	2.14
67	.25	1.14	1.18	.22	.37	.51	.31	1.27	.38	.23	.28	1.94	1.94
68	5.02	.66	.80	.98	1.12	.15	.15	TRACE	.20	1.08	1.49	1.88	5.02
69	3.77	.01	1.12	.08	.29	.05	.29	.01	.35	.08	1.33	.12	3.77
70	.58	.18	.08	.08	.12	.05	.17	.02	.07	1.21	1.33	.05	1.33
MEAN	2.18	1.11	1.37	.57	.47	.15	.21	.25	.29	.86	1.27	1.43	3.72
S.D.	1.790	1.145	2.232	.840	.522	.220	.252	.466	.345	.909	1.673	.906	2.163
TOTAL OBS.	142	121	142	140	142	140	151	142	130	142	140	142	1414

Part "C" Summary: Surface Winds

This summary consists of three sets of tables.

1. Daily peak gusts in knots - derived from daily observations and presented by individual year and month.

2. Bivariate percentage-frequency tabulations - derived from hourly observations, these tabulations are a percentage-frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. These tabulations are presented in three combinations:

   a. Annual - all hours combined.

   b. By month - all hours combined.

   c. By month - by standard 3-hour groups.

3. A separate annual table for surface winds meeting the following ceiling and visibility conditions: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2 1/2 miles inclusive with ceiling equal to or greater than 200 feet.

EXTREME VALUES

SURFACE WINDS

FROM DAILY OBSERVATIONS

22514 (STATION) BARBERS POINT, HAWAII MWSED (STATION NAME) 49-70 (YEARS)

DAILY PEAK GUSTS IN KNOTS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN	JUL	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
49				ENE 33	NE 27	NE 28	ENE 32	NE 33	ENE 34	NE 32	NE 36	NNE 31	
50	WSW 46	NE 30	ENE 37	ENE 34	ENE 34	ENE 32	NE 32	WSW 36	ENE 34	ENE 30	NE 27	NE 37	WSW 46
51	ENE 43		E 51	E 30	E 32	ENE 32	ENE 37	ENE 34	E 30	E 35	E 37	E 37	
52	E 38	E 28	ENE 48	ENE 35	ENE 34	ENE 38	ENE 31	ENE 35	E 34	NE 29	ENE 41	ENE 35	ENE 48
53	W 34	ENE 36	ENE 35	E 34	NE 36	ENE 35	ENE 32	E 39	NE 34	NE 34	ENE 38	NE 35	ENE 39
54	NNE 47	NNE 41	NNE 44	SSE 35	NE 31	NE 35	NE 36	NE 35	ENE 35	ENE 36	SSE 41	ENE 39	NNE 47
55	NNE 46	SSW 51	NE 36	NE 39	NE 37	NE 32	ENE 32	NE 34	NE 28	NE 30	SSW 42	SW 45	SSW 51
56	SSW 60	W 33	NE 27	NE 30	ENE 26	NE 34	NE 27	NNE 28	NE 26	NE 28	SW 29	W 41	SSW 60
57	SSW 42	WSW 41	NNE 32	NNE 29	ENE 26	SSE 28	NE 30	ENE 34	ENE 26	N 25	NE 35	NE 44	NE 44
58	NE 33	WSW 34	SSE 33	ESE 33	ENE 31	ENE 30	ENE 28	E	E 30	NE 30	ENE 29	NNW 29	E 36
59	NNW 47	W 34	NE 30	NNE 32	NE 30	ENE 27	ENE 26	SE	ENE 28	NNE 22	NNE 32	ENE 39	NNW 47
60	ENE 27	N 37	NNE 30	ENE 28	NE 26	E 25	ENE 26	NE 24	ENE 27	NE 24	ENE 26	NW 22	N 37
61	WSW 33	NNE 27	ENE 27	NNE 33	ENE 35	ENE 28	NE 25	ENE 26	ENE 28	ENE 27	NW 29	S 26	ENE 35
62	SSW 33	NW 32	E 26	S 25	NE 24	ENE 22	NE 26	ENE 24	NE 26	ENE 22	ENE 27	NW 26	SSW 33
63	WSW 49	W 36	ESE 38	SSW 26	NE 25	ENE 26	NE 25	ENE 26	SE 41	NE 24	NNE 27	NNW 23	WSW 49
64	ENE 26	NE 28	ENE 27	NE 30	NNE 28	ENE 28	ENE 27	ENE 28	NE 27	NNE 28	ENE 29	WNW 38	WSW 38
65	W 37	N 26	NE 25	NNE 27	S 23	ENE 28	NE 24		SE 29	W 22	SE 47		
66		W 30	NE 28	NE 33		NE 24	NE 27	ENE 25	W 23		S 33	E 28	
67	NE 29	ENE 29	SW 28	NNE 25	ENE 23	E 22	ENE 23	SE 25	ENE 27	ENE 31	E 34	ESE 38	ESE 38
68	NNW 44	W 40	NNE 27	NW 36	NE 22	ENE 26	E 27	NE 28	NE 23	S 29	SE 27	SW 31	NNW 44
69	W 31	NE 32	NE 27	NE 29	NE 25	E 24	ENE 26	NE 27	NE 25	NE 22	E 27	NE 41	NE 41
70	WSW 38	NE 29	E 26	ENE 29	NE 29	NE 25	E 28	NE 26	NE 24	SSW 26	NE 25	ENE 39	WSW 38
MEAN	38.2	34.1	32.1	31.1	28.9	28.3	28.5	30.9	28.7	27.9	32.6	34.4	42.9
S.D.	8.641	5.999	7.586	3.733	4.918	4.780	3.751	5.747	5.075	4.146	6.210	6.305	6.873
TOTAL OBS	616	564	648	660	649	660	660	647	659	651		647	7238

Part "C" (cont.)

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

22514 | BARBERS POINT, HAWAII HNSED | 50-70 | JAN
ALL WEATHER | 0000-0200

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	2.9	2.4	.2								6.7	5.9
NNE	2.4	6.9	5.9	1.1	.2	.1						16.5	6.7
NE	8.1	14.4	8.4	1.6	.2	.1						32.7	5.6
ENE	3.5	7.1	3.0	1.8	.7	.4						16.4	6.8
E	.7	.8	.5	.6	.3	.3						3.1	9.5
ESE	.1	.2	.4	.3								1.0	8.8
SE	.1	.2	.4	.5	.1	.1						1.3	11.8
SSE		.2	.3	.7	.2	.1						1.5	12.6
S	.1	.1	.7	.8	.5	.1						2.2	13.1
SSW		.3	.8	.7	.1	.2	.1					2.2	12.0
SW	.3	.2	1.0	1.0	.3	.1						2.8	10.3
WSW	.1	.6	1.0	.7	.3	.1						2.7	10.3
W	.5	.6	1.4	.3	.2	.1						3.0	8.0
WNW	.1	.2	.2	.3	.2							.9	10.4
NW	.4	.4	.4	.2	.1							1.3	6.6
NNW	.2	.4	.2									.7	5.1
VARBL													
CALM												5.0	
	17.7	35.3	26.8	10.7	3.2	1.3	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 1952

Part "C" (cont.)

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

22514 BARBERS POINT, HAWAII NWSED 49-70 ALL

INSTRUMENT ALL

CIG 200 TO 1400 FT W/VSBY 1/2 MI OR MORE, AND/OR

VSBY 1/2 to 2-1/2 MI W/CIG 200 FT OR MORE

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	56 +	%	MEAN WIND SPEED
N	.8	1.8	1.3	.1	.1							4.0	6.1
NNE	.5	1.8	3.2	.4	.1							5.9	7.8
NE	1.4	5.5	4.9	1.8								13.4	7.1
ENE	.2	2.7	1.4	1.0	.5	.2						5.9	8.9
E	.8	1.3	1.7	.9	.3	.1	.1					5.1	9.1
ESE	.2	.9	1.4	.7	.6	.2	.1					4.0	11.2
SE	.2	1.0	1.7	1.4	1.1	.6	.1	.1				6.0	13.3
SSE	.4	.3	1.7	1.9	1.1	.6	.1					5.9	13.3
S	.9	1.1	2.4	3.1	1.4	.4						10.2	11.6
SSW	.3	.8	2.0	2.7	1.5	.1						7.4	12.1
SW	.1	1.2	1.7	2.4	.9	.2						6.4	11.4
WSW	.1	1.1	1.8	1.8	.9	.1	.2					5.8	11.8
W	.5	1.7	2.1	2.1	.5	.4	.1					7.4	10.7
WNW	.4	.8	1.5	1.4	.2	.5						4.7	11.3
NW	1.1	.5	.5	.5	.2							2.7	6.9
NNW	.6	.4		.4								1.4	6.4
VARBL													
CALM												3.0	
	8.3	22.5	29.0	23.4	9.2	3.3	.7	.1				100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 1027

Part "D" Summary: Ceiling and Visibility

This summary consists of two sets of tabulations:

1. Ceiling Versus Visibility, is a bivariate percentage-frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented:

   a. Annual - all years and all hours combined.

   b. By month - all years and all hours combined.

   c. By month - by standard 3-hour groups.

2. Sky Cover, is prepared from hourly observations and is a percentage-frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables:

   a. By month and annual - all hours and years combined.

   b. By month - by standard 3-hour groups.

CEILING VERSUS VISIBILITY

22514 BARBERS POINT, HAWAII NWSED 50-79 JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

0000-0200

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥10	≥6	≥5	≥4	≥3½	≥3	≥2½	≥2	≥1¾	≥1½	≥1¼	≥1	≥¾	≥½	≥5/16	≥0
NO CEILING	66.4	66.6	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 20000	69.5	69.7	69.7	69.8	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 15000	69.8	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
≥ 12000	70.0	70.1	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 10000	71.2	71.3	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 9000	73.2	73.3	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
≥ 8000	75.5	75.7	75.7	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 7000	77.4	77.5	77.6	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 6000	78.5	78.7	78.7	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 5000	78.8	79.0	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
≥ 4500	79.1	79.3	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
≥ 4000	82.6	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
≥ 3500	87.6	87.8	87.9	88.0	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 3000	90.7	91.1	91.2	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2500	91.9	92.4	92.4	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 2000	93.5	94.1	94.1	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 1800	95.9	96.5	96.6	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
≥ 1600	96.6	97.9	98.0	98.1	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 1400	96.7	98.1	98.2	98.3	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1200	96.8	98.3	98.5	98.6	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 1000	96.9	98.4	98.7	98.8	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	96.9	98.4	98.9	99.0	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 800	96.9	98.4	98.9	99.0	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 700	96.9	98.4	98.9	99.0	99.6	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 600	96.9	98.4	98.9	99.0	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	96.9	98.4	98.9	99.0	99.7	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	97.0	98.5	98.9	99.1	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	97.0	98.5	98.9	99.1	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	97.0	98.5	98.9	99.1	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	97.0	98.5	98.9	99.1	99.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	97.0	98.5	98.9	99.1	99.7	99.8	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 1952

Part "D" (cont.)

SKY COVER

22514 | BARBERS POINT, HAWAII NWSED | 49-70 | JAN

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	00-02	18.4	13.1	10.6	9.0	7.5	6.5	4.8	5.8	6.1	3.1	15.0	4.2	1955
	03-05	20.2	12.6	10.3	9.6	7.4	6.6	4.2	4.7	5.5	4.0	14.8	4.1	1953
	06-08	11.8	11.4	11.5	10.4	6.8	7.0	5.6	7.5	8.5	6.3	13.2	4.7	2046
	09-11	6.9	11.1	10.4	9.9	8.5	7.8	5.5	7.9	9.8	7.4	14.8	5.2	2046
	12-14	2.8	6.6	11.1	10.7	8.5	9.8	6.7	8.9	10.1	10.0	14.8	5.7	2046
	15-17	3.0	7.6	9.8	12.6	8.5	9.3	6.0	8.1	10.3	9.9	14.9	5.6	2043
	18-20	6.7	10.5	12.9	10.0	8.6	6.7	5.8	7.0	8.1	7.8	16.0	5.1	2046
	21-23	13.2	13.1	12.6	10.1	7.8	5.8	5.3	6.7	5.8	4.7	14.9	4.5	1984
TOTALS		13.4	10.8	11.2	10.3	8.0	7.4	5.5	7.1	8.0	6.7	14.8	4.9	16119

Part "E" Summary: Psychrometric Data

These present various summaries of dry and wet-bulb temperatures, dew points, and relative humidity as follows:

1. Cumulative percentage-frequency of occurrence of daily maximum temperatures, daily minimum temperatures, and daily mean temperature.

2. Extreme values of maximum and minimum temperatures.

3. Bivariate percentage-frequency distribution and computation of dry-bulb versus wet-bulb temperature.

4. Means and standard deviations of dry-bulb temperature, wet-bulb temperature, and dew point temperature.

5. Cumulative percentage-frequency of occurrence of relative humidity presented in two tables:

   a. By month and annual, all years combined.

   b. By month, by standard 3-hour groups.

6. Bivariate percentage-frequency distribution and computation of air temperature versus wind direction.

DAILY TEMPERATURES

[illegible] BARBERS POINT, HAWAII (WSO) [illegible] 55-70 [illegible] YEARS [illegible]

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS) [illegible] YEARS

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
85										.1			.0
80				.2	.4	5.8	19.4	30.5	31.2	14.8	1.2	.1	8.7
75	15.3	12.1	17.7	37.1	79.2	97.4	99.7	99.4	99.8	95.3	78.3	30.1	63.4
70	85.3	88.4	90.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.0	96.1
65	98.8	100.0	99.9	100.0							100.0	100.0	99.9
60	100.0		100.0										100.0

Part "E" (cont.)

DAILY TEMPERATURES

22514 STATION — BARBERS POINT, HAWAII (NASE) STATION NAME — 49-70 YEAR

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
≥ 80										.1			.0
≥ 75	.1			.5		1.4	8.8	15.7	10.0	4.1	1.7	1.0	4.0
≥ 70	12.2	7.4	8.9	20.4	48.2	78.6	92.0	96.9	90.0	75.2	55.4	22.6	51.4
≥ 65	45.8	45.2	71.6	93.0	97.2	99.2	100.0	100.0	99.8	94.7	94.7	84.6	85.2
≥ 60	94.0	94.7	97.8	99.8	100.0	100.0			100.0	100.0	99.8	97.5	98.7
≥ 55	98.2	100.0	99.9	100.0							100.0	100.0	99.8
≥ 50	100.0		100.0										100.0
MEAN	65.5	66.3	65.9	67.6	69.2	70.8	72.0	72.7	72.2	71.3	69.7	67.3	69.1
S.D.	3.873	3.279	2.793	2.387	2.143	1.832	1.729	1.703	1.962	2.549	2.610	3.168	3.081
TOTAL OBS.	648	621	648	630	648	630	648	648	630	648	630	648	8010

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Part "E" (cont.)

EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM BOAT OBSERVATIONS)

22514 (station) BARBERS POINT, HAWAII NWSED (station name) 49-70 (years)

WHOLE DEGREES FAHRENHEIT

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
49		81	82	81	83	85	86	86		85	84	82	
50	82	82	82	82	84	85	85	87	86	87	86	81	87
51	82	82	84	83	85	87	88	88	90	88	86	82	90
52	84	83	84	81	84	84	85	87	85	85	84	81	87
53	83	82	81	83	84	84		87	86	85	82	82	
54	81	82	82	84	82	85	85	87	87	85	85	81	87
55	82	79	82	81	81	82	83	83	85	83	85	83	85
56	83	82	81	83	83	83	85	86	85	85	84	84	86
57	83	79	81	83	84	85	87	87	87	87	85	84	87
58	81	82	80	82	83	84	87	86	88	86	87	83	88
59	82	82	82	84	83	85	86	88	86	87	85	83	88
60	82	81	81	81	84	87	86	87	86	88	84	83	88
61	82	82	83	84	85	87	88	88	87	88	84	83	88
62	82	81	83	84	85	85	86	88	86	87	84	82	88
63	80	86	83	84	84	84	86	86	86	87	86	87	87
64	82	86	82	83	85	86	85	87	87	86	85	83	87
65	82	79	81	83	86	85	88	86	89	86	85	81	89
66	81	82	81	82	85	86	86	86	88	87	86	87	88
67	82	82	84	86	87	87	88	88	89	88	84	83	89
68	82	83	84	85	88	90	90	90	91	90	89	84	91
69	82	83	85	85	88	88	89	90	87	87	87	88	90
70	83	82	83	85	86	86	89	91	89	91	87	81	91
MEAN	82.0	82.0	82.3	83.1	84.5	85.5	86.6	87.2	87.2	86.7	85.2	83.1	88.1
S D	.865	1.759	1.321	1.457	1.766	1.765	1.687	1.688	1.620	1.778	1.500	1.998	1.572
TOTAL OBS.	651	621	682	660	682	660	651	682	630	682	660	682	7943

Part "E" (cont.)

EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

22514 — STATION — BARBERS POINT, HAWAII NWSED — STATION NAME — 49-70 — YEARS

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP.	OCT	NOV.	DEC	ALL MONTHS
49		57	58	63	63	67	68	69		64	60	58	
50	62	63	62	64	66	67	69	69	67	67	64	58	58
51	58	55	58	63	65	66	69	70	68	68	67	61	55
52	58	61	59	63	63	67	69	70	68	67	65	60	58
53	58	61	62	63	65	69		70	70	67	65	58	
54	60	58	57	64	65	70	70	72	70	64	66	61	57
55	62	61	54	65	67	67	68	69	67	65	64	64	54
56	62	63	63	63	67	69	69	72	69	68	65	61	61
57	63	59	57	64	64	67	71	69	68	68	69	63	57
58	61	59	58	56	66	68	70	71	69	68	62	60	56
59	58	59	63	63	66	68	69	69	72	66	66	64	58
60	58	58	60	65	66	70	70	72	70	67	65	64	58
61	61	63	64	64	68	71	70	70	73	67	65	65	61
62	64	55	63	65	66	68	69	71	68	64	68	57	55
63	59	62	62	66	66	68	70	71	70	66	66	62	59
64	65	63	61	66	65	68	70	70	71	68	65	64	61
65	62	58	57	62	66	69	70	70	69	65	65	64	57
66	59	60	61	60	66	70	70	70	71	66	66	66	59
67	61	64	63	62	68	67	72	72	71	70	69	60	60
68	61	60	63	64	67	64	66	70	66	61	64	56	56
69	50	59	58	60	62	63	70	65	63	63	63	58	50
70	51	55	60	62	63	66	68	70	67	67	57	61	51
MEAN	59.7	59.7	60.1	63.0	65.5	67.7	69.4	70.0	68.8	66.2	64.8	61.0	57.1
S.D.	3.679	2.732	2.713	2.226	1.625	1.912	1.284	1.527	2.021	2.063	2.688	3.000	3.017
TOTAL OBS	661	621	682	660	692	660	691	682	630	682	660	682	7923

Part "E" (cont.)

PSYCHROMETRIC SUMMARY

22514 BARBERS POINT, HAWAII NUSED 49-70 JAN

Temp (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	23 24	25 26	27 28	29 30	31 32	TOTAL DB/WB	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
84/ 83						.0	.0		.0									5	5		
82/ 81				.1	.2	.4	.2	.1	.0									174	174		
80/ 79			.1	.7	1.8	2.0	1.0	.4	.0	.0								964	964		
78/ 77		.0	.5	1.8	3.4	3.0	1.7	.5	.0	.0								1754	1754	2	
76/ 75	.0	.3	2.3	3.6	3.2	3.0	1.5	.3	.1									2283	2292	59	8
74/ 73	.0	.8	3.2	4.1	2.6	1.5	.6	.1	.0									2101	2108	402	85
72/ 71	.1	1.6	3.9	4.6	1.8	.8	.3	.0	.0									2142	2142	1408	442
70/ 69	.5	2.7	6.3	5.1	1.3	.4	.1	.0										2646	2647	2577	1212
68/ 67	.6	2.2	5.1	2.6	1.0	.2	.0											1884	1885	3232	2035
66/ 65	.3	1.8	2.8	1.6	.4	.1	.0											1118	11[illegible]	3464	2449
64/ 63	.2	1.0	1.6	.5	.1	.0												559	55[illegible]	2304	2958
62/ 61	.2	.5	.6	.1	.0													229	229	1399	2686
60/ 59	.1	.3	.2	.0														108	108	783	1778
58/ 57	.1	.1	.1															48	48	293	1151
56/ 55	.1	.1																30	30	105	670
54/ 53	.1	.0																20	20	36	371
52/ 51	.1																	11	11	13	146
50/ 49	.0																	1	1	1	65
48/ 47																					19
46/ 45																					3
TOTAL	2.5	11.5	26.7	24.9	15.9	11.4	5.5	1.5	.2	.0								16077	16095	16078	16078

Element (F)	Σx	Σx^2	$\bar{x}$	σ_x	No. Obs.	Mean No. of Hours with Temperature 100 F	95 F	87 F	73 F	59 F	32 F	Total
Std. Pres.	93290578	3210176	75.3	11.731	16080							
Dry Bulb	83233942	1154888	71.8	4.766	16095			445.8	337.3	26.7		744.0
Wet Bulb	70564266	1063454	66.1	3.930	16078			355.4	21.4			744.0
Dew Point	64336027	1014525	61.1	4.456	16078			175.0	12.1			744.0

Part "E" (cont.)

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

22514 BARBERS POINT, HAWAII NWSED 49-70

HRS (LST)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
00-02	MEAN	68.8	68.2	68.6	69.8	71.3	73.0	74.0	74.7	74.3	73.7	72.1	69.9	71.6
	S. D.	3.541	3.102	2.678	2.284	2.012	1.748	1.648	1.697	1.730	2.353	2.374	3.038	3.338
	TOTAL OBS	1951	1777	1958	1979	2041	1979	2042	2046	1977	2045	1979	2044	23818
03-05	MEAN	67.9	67.3	67.6	68.9	70.4	72.0	73.1	73.8	73.3	72.7	71.2	69.2	70.7
	S. D.	3.731	3.352	2.887	2.297	2.063	1.756	1.661	1.721	1.900	2.574	2.589	3.276	3.425
	TOTAL OBS	1952	1779	1957	1980	2046	1980	2042	2046	1976	2046	1980	2046	23830
06-08	MEAN	67.6	67.3	68.1	69.9	71.9	73.6	74.4	74.9	74.4	73.5	71.6	69.2	71.4
	S. D.	3.855	3.407	3.139	2.806	2.808	2.671	2.520	2.393	2.650	2.989	2.864	3.432	4.040
	TOTAL OBS	2042	1862	2046	1980	2045	1980	2043	2045	1977	2045	1979	2044	24088
09-11	MEAN	73.6	73.6	74.7	76.2	78.2	79.7	80.4	80.9	81.2	80.3	78.1	75.0	77.7
	S. D.	3.212	3.170	3.071	2.582	2.532	2.250	2.431	2.390	2.394	2.729	3.004	3.129	3.912
	TOTAL OBS	2043	1863	2046	1980	2045	1979	2043	2045	1977	2045	1979	2045	24090
12-14	MEAN	76.9	76.7	77.4	78.5	80.1	81.7	82.6	83.2	83.4	82.5	80.5	77.9	80.1
	S. D.	2.781	2.883	2.791	2.430	2.457	2.067	2.245	2.156	2.046	2.437	2.696	2.778	3.498
	TOTAL OBS	2043	1863	2044	1980	2044	1980	2043	2044	1977	2046	1980	2046	24090
15-17	MEAN	76.3	76.1	76.7	77.7	79.4	81.3	82.3	82.8	82.7	81.5	79.4	76.9	79.4
	S. D.	2.895	2.912	2.921	2.489	2.629	1.975	2.131	1.956	2.087	2.514	2.774	2.887	3.570
	TOTAL OBS	2040	1863	2045	1980	2043	1979	2043	2045	1977	2045	1980	2046	24086
18-20	MEAN	72.6	72.4	72.9	74.0	75.9	77.9	78.8	79.2	78.8	77.6	75.4	72.9	75.7
	S. D.	2.936	2.945	2.880	2.654	2.502	2.149	2.113	2.081	2.095	2.443	2.447	2.759	3.605
	TOTAL OBS	2041	1863	2046	1980	2044	1980	2042	2046	1976	2046	1980	2046	24090
21-23	MEAN	70.0	69.6	70.0	71.0	72.7	74.5	75.4	76.0	75.7	74.9	73.2	70.7	72.8
	S. D.	3.132	2.826	2.473	2.255	2.003	1.742	1.686	1.658	1.682	2.222	2.275	2.777	3.272
	TOTAL OBS	1983	1806	1950	1979	2043	1980	2043	2045	1977	2046	1980	2045	23917
ALL HOURS	MEAN	71.8	71.4	72.0	73.2	75.0	76.7	77.6	78.2	78.0	77.1	75.2	72.7	74.9
	S. D.	4.766	4.722	4.678	4.386	4.365	4.194	4.165	4.114	4.337	4.458	4.359	4.457	5.062
	TOTAL OBS	16295	14676	16132	15838	16351	15837	16341	16362	15814	16364	15837	16362	192009

Part "E" (cont.)

RELATIVE HUMIDITY

22514 | BARBERS POINT, HAWAII NWSED | 49-70 | JAN

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	00-02	100.0	100.0	100.0	100.0	100.0	98.7	91.7	54.3	12.6	81.4	1952
	03-05	100.0	100.0	100.0	100.0	100.0	99.5	92.7	61.3	16.0	82.8	1953
	06-08	100.0	100.0	100.0	100.0	100.0	99.0	92.0	61.3	15.8	82.6	2037
	09-11	100.0	100.0	100.0	100.0	98.4	83.3	53.2	19.9	4.5	71.4	2040
	12-14	100.0	100.0	100.0	99.8	92.5	62.3	28.0	9.0	3.0	64.9	2039
	15-17	100.0	100.0	100.0	99.7	94.8	67.1	32.4	10.7	3.8	66.4	2037
	18-20	100.0	100.0	100.0	100.0	99.3	92.5	65.1	23.3	4.6	74.0	2040
	21-23	100.0	100.0	100.0	100.0	99.9	98.4	89.0	41.9	7.5	79.2	1982
TOTALS		100.0	100.0	100.0	99.9	98.1	87.6	68.0	35.2	8.5	75.3	16080

Part "E" (cont.)

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

22514 | BARBERS POINT, HAWAII NWSED | 49-70 | JAN | ALL

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL OBSD.	% OF TOTAL
>32											
28 TO 32											
24 TO 27											
20 TO 23											
16 TO 19											
12 TO 15											
8 TO 11											
4 TO 7											
0 TO 3			3.9	15.7	17.6	39.2	11.8	7.8	3.9	51	.3
-4 TO -1	.6		7.9	21.3	19.9	20.7	14.2	11.3	3.4	2846	17.7
-8 TO -5	3.1		23.6	23.1	5.8	10.4	13.5	12.5	5.3	5473	34.0
-12 TO -9	9.1		53.9	20.8	1.5	1.1	1.7	4.1	3.3	5604	34.8
-16 TO -13	12.3		63.2	15.6	.4	.2	.2	1.3	1.9	1825	11.3
-20 TO -17	8.4		66.7	15.2				.4	.4	237	1.5
-24 TO -21	10.0		65.0	20.0					1.7	60	.4
-28 TO -25			100.0							2	.0
-32 TO -29											
-36 TO -33											
-40 TO -37											
-44 TO -41											
-48 TO -45											
-52 TO -49											
-56 TO -53											
-60 TO -57											
-64 TO -61											
-68 TO -65											
-72 TO -69											
-76 TO -73											
-80 TO -77											
-84 TO -81											
-88 TO -85											
-92 TO -89											
-96 TO -93											
-100 TO -97											
-104 TO -101											
TOTALS	5.9	36.6	21.0	6.1	7.7	7.8	7.9	3.8	3.2	16098	100.0

NAVWEASERVCOM

Part "F" Summary: Surface Pressure Data

These summaries provide the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times (GCT). They are presented in two tables as follows:

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

22514 BARBERS POINT, HAWAII NWSFO 49-70

HRS (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	29.938	29.968	29.997	30.010	30.008	30.003	29.908	29.973	29.949	29.955	29.964	29.960	29.976
	S. D.	.109	.099	.083	.070	.055	.041	.038	.042	.043	.056	.078	.085	.074
	TOTAL OBS	651	593	653	660	681	660	681	682	659	682	660	682	7944
04	MEAN	29.910	29.936	29.959	29.972	29.973	29.973	29.961	29.944	29.914	29.923	29.934	29.933	29.945
	S. D.	.109	.092	.086	.074	.055	.047	.038	.043	.125	.057	.077	.086	.081
	TOTAL OBS	651	593	653	660	682	660	681	682	659	682	660	682	7945
07	MEAN	29.926	29.956	29.984	29.997	29.993	29.993	29.979	29.961	29.937	29.942	29.953	29.951	29.965
	S. D.	.111	.091	.086	.073	.058	.042	.038	.044	.044	.057	.077	.086	.075
	TOTAL OBS	682	621	682	660	682	660	681	682	659	682	660	682	8033
10	MEAN	29.965	29.991	30.016	30.026	30.016	29.999	29.986	29.982	29.962	29.972	29.984	29.986	29.990
	S. D.	.111	.090	.081	.071	.053	.276	.272	.043	.043	.055	.075	.083	.132
	TOTAL OBS	682	621	682	660	681	660	681	682	659	682	660	682	8032
13	MEAN	29.914	29.950	29.979	29.993	29.991	29.987	29.975	29.957	29.928	29.923	29.932	29.930	29.955
	S. D.	.109	.089	.078	.068	.052	.041	.037	.042	.043	.125	.074	.083	.080
	TOTAL OBS	682	621	682	660	681	660	680	681	659	682	660	682	8030
16	MEAN	29.880	29.908	29.936	29.951	29.956	29.956	29.944	29.920	29.890	29.894	29.903	29.903	29.920
	S. D.	.108	.087	.079	.067	.053	.041	.037	.043	.042	.053	.074	.082	.073
	TOTAL OBS	681	621	682	660	680	660	681	682	658	682	660	682	8029
19	MEAN	29.914	29.941	29.967	29.977	29.975	29.969	29.954	29.935	29.917	29.928	29.940	29.940	29.947
	S. D.	.108	.088	.080	.069	.052	.042	.037	.043	.042	.056	.075	.083	.071
	TOTAL OBS	682	621	682	660	682	660	681	682	659	682	660	682	8033
22	MEAN	29.950	29.978	30.010	30.023	30.020	30.012	29.995	29.980	29.963	29.970	29.976	29.973	29.988
	S. D.	.109	.090	.081	.070	.053	.041	.036	.043	.042	.055	.077	.084	.072
	TOTAL OBS	651	593	654	660	681	655	681	682	659	682	660	682	7944
ALL HOURS	MEAN	29.925	29.953	29.981	29.994	29.992	29.986	29.973	29.957	29.932	29.939	29.948	29.947	29.961
	S. D.	.112	.094	.085	.074	.058	.107	.104	.048	.065	.073	.080	.087	.087
	TOTAL OBS	5362	4884	5370	5280	5450	5279	5447	5455	5271	5456	5280	5456	63990

Part "F" (cont.)

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

22514 (station) BARBERS POINT, HAWAII (WBAS) (period and type) 49-70 (years)

HRS (L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	1015.5	1016.6	1017.5	1017.9	1017.9	1017.7	1017.2	1016.7	1015.9	1016.1	1016.4	1016.2	1016.8
	S. D.	3.703	3.109	2.812	2.366	1.870	1.370	1.251	1.438	1.468	1.913	2.595	2.884	2.472
	TOTAL OBS	651	593	653	659	681	660	681	682	659	682	660	682	7943
04	MEAN	1014.6	1015.4	1016.2	1016.7	1016.7	1016.7	1016.3	1015.7	1014.8	1015.0	1015.4	1015.4	1015.7
	S. D.	3.695	3.185	2.886	2.440	1.876	1.410	1.268	1.459	1.461	1.942	2.588	2.917	2.481
	TOTAL OBS	651	593	653	659	682	660	681	682	659	682	660	682	7946
07	MEAN	1015.1	1016.1	1017.1	1017.5	1017.4	1017.4	1016.9	1016.3	1015.5	1015.7	1016.1	1015.9	1016.4
	S. D.	3.782	3.084	2.874	2.4[illegible]	1.860	1.413	1.267	1.487	1.464	1.927	3.487	2.897	2.598
	TOTAL OBS	682	621	682	6[illegible]	682	660	681	682	659	682	660	682	8032
10	MEAN	1016.4	1017.3	1018.2	1018.5	1018.1	1017.9	1017.4	1016.9	1016.3	1016.6	1017.0	1017.1	1017.3
	S. D.	3.775	3.033	2.736	2.377	1.809	1.407	1.232	1.460	1.439	1.869	2.525	2.820	2.429
	TOTAL OBS	682	621	682	659	681	659	681	682	659	682	660	682	8030
13	MEAN	1014.7	1015.9	1016.9	1017.4	1017.3	1017.1	1016.7	1016.1	1015.1	1015.1	1015.3	1015.2	1016.1
	S. D.	3.688	3.010	2.638	2.280	1.779	1.397	1.245	1.434	1.450	1.821	2.494	2.795	2.470
	TOTAL OBS	682	621	682	659	682	659	681	681	659	682	660	682	8030
16	MEAN	1013.5	1014.5	1015.4	1015.9	1016.1	1016.1	1015.7	1014.8	1013.8	1014.0	1014.3	1014.3	1014.9
	S. D.	3.659	2.948	2.665	2.256	1.777	1.389	1.245	1.457	1.413	1.813	2.461	2.771	2.439
	TOTAL OBS	681	621	682	659	680	660	681	682	659	682	660	682	8029
19	MEAN	1014.7	1015.6	1016.5	1016.8	1016.7	1016.5	1016.0	1015.4	1014.7	1015.1	1015.6	1015.6	1015.8
	S. D.	3.674	2.966	2.701	2.315	1.779	1.416	1.246	1.440	1.421	1.881	2.511	2.803	2.403
	TOTAL OBS	682	621	682	659	682	659	681	682	659	682	660	682	8031
22	MEAN	1015.9	1016.9	1017.9	1018.4	1018.3	1018.0	1017.4	1017.0	1016.3	1016.6	1016.8	1016.7	1017.2
	S. D.	3.695	3.051	2.756	2.347	1.792	1.388	1.222	1.447	1.431	1.880	2.582	2.827	2.438
	TOTAL OBS	651	593	654	659	681	6[illegible]	681	682	659	682	660	682	7944
ALL HOURS	MEAN	1015.1	1016.0	1017.0	1017.4	1017.3	1017.2	1016.7	1016.1	1015.3	1015.5	1015.9	1015.8	1016.3
	S. D.	3.804	3.159	2.886	2.405	1.957	1.540	1.391	1.617	1.650	2.060	2.802	2.959	2.585
	TOTAL OBS	5362	4[illegible]	5370	5272	5451	5277	5448	5455	5272	5456	5280	5456	63883

STABILITY

Stability identifies summaries that have been processed using the STABILITY ROSE or "S and L" programs. Both programs use the Pasquill Stability Classifications as explained by D. Bruce Turner in the February 1964 issue of the Journal of Applied Meteorology.

The STABILITY ROSE (STAR) program uses hourly or 3-hourly observations from airports in TDF-14 format as input data. A bivariate frequency distribution and relative frequency distribution of wind direction vs wind speed is computed for each stability class (1-6) or (1-5). Monthly, seasonal and annual frequencies may be presented for the period of record.

ANNUAL FREQUENCY DISTRIBUTION STATION = 14910 ALEXANDRIA, MINN. 52-54 24 OBS

SPEED (KTS)

DIRECTION	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	24	56	229	236	68	39	12.1	652
NNE	24	62	168	166	73	19	12.0	492
NE	27	81	219	125	40	15	10.3	507
ENE	33	37	202	265	97	64	13.1	698
E	23	62	233	236	91	40	12.1	685
ESE	28	170	444	572	110	17	11.5	1287
SE	67	119	649	536	79	10	10.8	1260
SSE	42	99	593	623	140	25	12.0	1347
S	34	55	246	514	130	17	12.3	996
SSW	16	36	212	499	100	14	12.7	879
SW	36	51	200	239	53	19	11.3	598
WSW	11	43	122	175	50	17	12.0	418
W	21	50	207	364	139	53	13.2	833
WNW	17	35	163	913	468	275	16.2	2091
NW	49	89	430	1023	506	177	14.5	2274
NNW	18	64	300	540	234	67	13.4	1231
AVG	2.7	5.1	9.0	13.7	18.4	24.8	12.7	
TOTAL	450	1025	6462	7062	2381	868		

NUMBER OF OCCURRENCES OF D STABILITY = 16325

NUMBER OF CALMS WITH D STABILITY = 77

STABILITY (Cont.)

ANNUAL — RELATIVE FREQUENCY DISTRIBUTION — STATION: 14910 ALEXANDRIA, MINN 46-54 24 095

SPEED (KTS)

DIRECTION	2 - 3	4 - 6	7 - 10	11 - 16	17 - 21	GREATER THAN 21	TOTAL
N	0.001073	0.002133	0.006721	0.008908	0.002590	0.000185	0.021990
NNE	0.001045	0.001600	0.004836	0.007084	0.002780	0.000724	0.018868
NE	0.001243	0.002095	0.004430	0.004760	0.001523	0.000571	0.019523
ENE	0.000834	0.002171	0.007643	0.010092	0.003694	0.002437	0.026722
E	0.001045	0.002331	0.009873	0.008908	0.003466	0.001523	0.026256
ESE	0.001341	0.004159	0.016829	0.022012	0.004189	0.000647	0.049288
SE	0.002921	0.004532	0.017100	0.020413	0.003009	0.000131	0.048355
SSE	0.001820	0.002128	0.010641	0.024107	0.005332	0.000952	0.051519
S	0.001872	0.002095	0.009361	0.019575	0.006951	0.000647	0.038100
SSW	0.000717	0.001447	0.008074	0.019004	0.003808	0.000533	0.033583
SW	0.001544	0.001942	0.007617	0.009102	0.002018	0.000724	0.022947
WSW	0.000526	0.001637	0.004646	0.006665	0.001904	0.000647	0.016026
W	0.000941	0.001954	0.007883	0.013862	0.006256	0.002018	0.031865
WNW	0.000751	0.001331	0.014586	0.034770	0.017825	0.010473	0.079736
NW	0.002140	0.003389	0.016378	0.039960	0.019270	0.006741	0.088876
NNW	0.000864	0.011425	0.013524	0.020464	0.009064	0.002552	0.047362
TOTAL	0.020070	0.049836	0.168929	0.268946	0.090677	0.033057	

RELATIVE FREQUENCY OF OCCURRENCE OF D STABILITY = 0.521715

RELATIVE FREQUENCY OF CALMS DISTRIBUTED ABOVE WITH D STABILITY = 0.002932

STABILITY CODES

A - Unstable
B - Unstable
C - Unstable
D - Neutral
E - Stable
F - Stable

STABILITY (Cont.)

The "S and L" wind distribution by Pasquill Stability Classes uses TDF-14 format as input data. A bivariate percent frequency distribution of stability classes (1-7) vs wind direction is computed for each month. Other presentation include: average wind speed for each stability class and wind direction, hourly stability index percent frequency distribution, day-night stability index percent frequency distribution, and other data that is self-explanatory.

**JANUARY AVERAGE ** * 5 YR DATA * 13934 ALEXANDRIA, LA 01/58 - 12/62 01/20/72

**TOTAL NO. OF OBS= 3720 **

GROSS WIND ROSE (IN PERCENT OF TOTAL OBS)

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
3.01	4.38	6.94	3.33	4.89	2.96	4.87	2.71	7.98	0.91	1.91	1.10	4.76	4.27	7.82	4.87	27.78

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
9.99	6.70	8.91	4.52	6.10	4.47	7.50	4.98	10.18	1.14	2.79	1.76	6.91	6.29	9.79	6.83

STABILITY INDEX DISTRIBUTION FOR EACH WIND DIRECTION (IN PERCENT OF DIRECTION TOTAL)

INDEX	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2.55	6.38	4.80	7.10	9.65	12.56	7.13	3.76	4.21	4.67	8.62	12.06	8.91	7.37	3.01	2.74
3	8.41	8.24	5.47	6.95	12.09	8.31	11.35	7.04	5.45	6.70	11.14	17.01	8.76	7.88	11.52	4.51
4(D)	29.04	13.39	18.79	23.22	23.42	15.82	18.66	18.38	21.85	21.89	17.18	11.09	17.86	15.07	17.04	17.09
4(N)	36.37	32.66	34.26	22.41	20.34	19.17	15.51	30.01	36.88	35.42	14.25	6.85	19.63	18.17	23.36	24.85
5	5.11	3.61	11.17	8.92	6.17	6.42	6.81	9.72	7.13	7.05	5.77	4.54	4.28	6.17	13.46	8.66
6	9.05	10.92	12.06	17.15	12.00	14.46	12.90	15.57	9.33	15.03	20.02	19.41	16.83	15.80	19.79	19.53
7	14.17	28.80	14.45	14.24	6.33	23.05	25.15	15.51	15.18	11.25	23.02	29.01	24.23	29.54	11.83	22.61

STABILITY INDEX DISTRIBUTION IN PERCENT OF TOTAL OBS

INDEX	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.26	0.43	0.43	0.32	0.59	0.56	0.53	0.19	0.43	0.25	0.24	0.21	0.62	0.48	0.29	0.19
3	0.84	0.28	0.40	0.31	0.74	0.37	0.59	0.22	0.53	0.05	0.31	0.30	0.57	0.51	1.13	0.31
4(D)	2.90	0.99	1.67	1.05	1.43	0.71	1.46	0.91	2.22	0.25	0.45	0.20	1.23	0.98	1.67	1.17
4(N)	3.62	2.19	3.05	1.01	1.85	0.86	1.16	1.49	3.75	0.41	0.40	0.12	1.36	1.19	2.29	1.73
5	0.51	0.24	0.94	0.40	0.38	0.19	0.51	0.48	0.73	0.06	0.16	0.08	0.30	0.40	1.32	0.59
6	0.90	0.73	1.08	0.77	0.73	0.65	0.92	0.77	0.95	0.17	0.56	0.24	1.16	1.07	1.94	1.23
7	1.42	1.93	1.24	0.64	0.29	1.03	2.19	0.77	1.54	0.13	0.64	0.51	1.67	1.93	1.16	1.54

AVERAGE WIND SPEED FOR EACH STABILITY INDEX AND DIRECTION (IN MPS)

INDEX	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.41	0.81	0.84	0.73	0.54	1.01	0.91	1.26	0.77	0.73	1.55	0.71	1.03	0.72	1.32	1.26
3	3.44	3.26	3.44	2.82	2.25	2.87	2.72	2.33	2.65	4.12	3.29	3.85	4.05	3.17	3.50	8.46
4(D)	4.63	3.59	3.95	3.10	3.47	3.15	3.06	3.77	4.73	4.31	4.53	3.07	5.13	5.47	5.13	5.27
4(N)	4.15	3.00	3.69	2.72	2.33	2.60	2.41	2.01	3.92	4.30	3.96	3.52	4.79	5.39	4.99	4.02
5	2.84	2.35	2.63	2.64	2.65	2.62	2.41	2.34	2.92	2.06	2.75	2.75	3.79	4.19	3.90	4.07
6	1.27	1.35	1.23	1.06	0.96	1.05	0.98	0.93	1.22	0.88	1.48	1.53	1.51	1.43	1.66	1.46
7	0.28	0.26	0.30	0.28	0.32	0.27	0.26	0.25	0.28	0.32	0.26	0.27	0.27	0.28	0.25	0.22

SUMMARY OF SURFACE WEATHER OBSERVATIONS

A AND B SUMMARIES

These standard monthly summaries of surface weather observations were prepared in the past by the Air Weather Service. The A Summaries are derived from hourly observations; the B Summaries are derived from daily observations.

C SUMMARY

This standard monthly wind summar, has been prepared in the past by the Air Weather Service.

In general, all three summaries are prepared for each station for the period of record, however, there are a few stations that will have only an A or B Summary. Sky cover and snowfall tables are available only for stations with periods of record subsequent to 1945. Most summaries of this type that were produced after January 1966 will be found under the Revised "A" through "F" Summary heading.

Recent updates of a single portion (e.g. Surface Wind Summary-Part C) of a RUSSWO are generally included under the appropriate letter type summary rather than the RUSSWO.

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
Air Weather Service (MATS)

EXTREME WIND DATA

WBAN NO 33308 | STATION NAME ADANA TURKEY/INCIRLIK AB

MAXIMUM WINDS
(FROM HOURLY OBSERVATIONS)

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
DIRECTION	NNE	NW	S	SW	N	NE	S	NE	N	NW	N	NNE	S
SPEED (KNOTS)	42	35	45	30	30	35	25	25	30	32	36	30	45
TOTAL NO OBS	5952	5388	5952	5760	6477	6369	6694	6690	6479	6696	5759	5951	74163
PERIOD OF RECORD	MAY 1955 - OCT 1963												

PEAK GUSTS
(FROM DAILY OBSERVATIONS)

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
DIRECTION	NNW	WSW	SE	N	NE	NNW	SSW	NNE	NE	SSE	N	S	SSE
SPEED (KNOTS)	37	33	37	31	24	32	26	25	29	47	25	31	47
TOTAL NO OBS	62	56	62	67	90	90	93	92	90	93	60	61	916
PERIOD OF RECORD	APR 1961 - OCT 1963												

A & B Summaries (cont.)

AIR WEATHER SERVICE
CLIMATIC CENTER
DATA PROCESSING DIVISION

SURFACE WINDS

PERCENTAGE FREQUENCY OF OCCURRENCE
DIRECTIONS BY SPEED GROUPS

33308 ADANA TURKEY/INCIRLIK AB ALL CONTACT

SPEED / DIR	1 - 3 KNOTS	4 - 10 KNOTS	11 - 21 KNOTS	22 - 27 KNOTS	28 - 40 KNOTS	41 KNOTS AND OVER	TOTAL 4 KNOTS AND OVER	TOTAL NO OF OBSERVATIONS %	TOTAL NO OF OBSERVATIONS OBS.	SUM OF SPEED	MEAN WIND SPEED KNOTS
N	.8	5.3	2.2	.1	.0		7.6	8.4	6220	53918	8.6
NNE	1.1	9.6	4.5	.3	.0	.0	14.5	15.6	11539	104320	9.0
NE	1.3	9.6	5.4	.4	.1		15.4	16.8	12389	116085	9.4
ENE	.7	3.1	1.4	.1	.0		4.6	5.2	3866	32157	8.3
E	.8	2.9	.3	.0	.0		3.3	4.1	2998	18038	6.0
ESE	.4	1.3	.1	.0			1.4	1.8	1342	7318	5.5
SE	.5	1.6	.2	.0			1.8	2.3	1689	9675	5.7
SSE	.5	1.5	.1	.0	.0		1.6	2.1	1552	8881	5.7
S	.9	4.7	1.1	.0	.0	.0	5.9	6.8	5039	36883	7.3
SSW	.6	4.4	2.0	.0	.0		6.4	7.0	5145	44371	8.6
SW	.5	5.1	3.3	.0	.0		8.5	9.0	6680	63466	9.5
WSW	.3	2.3	1.1	.0			3.3	3.7	2698	23120	8.6
W	.4	1.8	.4	.0	.0		2.2	2.6	1945	15282	8.0
WNW	.2	.6	.1				.6	.8	608	3871	5.9
NW	.2	.7	.1	.0	.0		.8	1.0	761	5217	6.9
NNW	.2	.7	.2	.0	.0		.9	1.2	858	6367	7.4
CALM								11.5	8513		
TOTALS	9.7	55.2	22.4	1.0	.2	.0	78.8	100.0	73638	546581	7.4

A & B Summaries (cont.)

AIR WEATHER SERVICE
DIRECTORATE OF CLIMATOLOGY
DATA CONTROL DIVISION

FREQUENCY OF DAILY TEMPERATURES

ADANA TURKEY/INCIRLIK AB

55 56 57 58 59 60 61 62 63, LESS MAY 55

STATION NAME

PERIOD

STATION NR	TEMP (°F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
33166	407/ 41		1											1
	427/ 43												1	1
	447/ 45	1	1											4
	467/ 47	1	1	1									2	13
	487/ 49	1	8	1									3	14
	507/ 51	11	15	2									3	31
	527/ 53	12	12	5								1	6	44
	547/ 55	15	19	7								2	10	70
	567/ 57	15	23	14		1						7	28	153
	587/ 59	21	19	19	1							4	27	116
	607/ 61	25	27	23	1							3	37	139
	627/ 63	21	21	26	5	2					1	5	23	126
	647/ 65	23	26	31	12	2					2	13	26	137
	667/ 67	4	14	16	20	4						15	23	110
	687/ 69	6	8	28	25	3						22	16	113
	707/ 71	1	17	18	24	13					4	14	17	128
	727/ 73			16	31	12	1				5	23	5	86
	747/ 75		2	8	28	29				2	14	25	6	112
	767/ 77		1	11	24	22	8				16	24	1	107
	787/ 79			7	19	19	4				21	13		69
	807/ 81			6	16	32	6			2	25	23	1	111
	827/ 83				8	24	19	1		4	32	13		101
	847/ 85			1	9	11	38	7		17	38	11		127
	867/ 87				3	16	31	6	1	31	29	4		121
	887/ 89				5	19	31	32	7	35	31	2		162
	907/ 91				1	15	35	59	31	71	29			291
	927/ 93					7	26	44	52	45	12			207
	947/ 95				1	7	24	57	53	32	11			185
	967/ 97					7	10	24	43	14	1			101
	987/ 99					12	6	18	45	7	2			84
	1007/101					2	7	8	2	9	1			42
	1027/103						4	6	16	2	1			32
	1047/105						3		8	1				12
	1067/107							1	1					4
	1087/109						1		1					2
	1107/111								1					1
	1127/113								1					1
	1147/115								2					2
TOTAL NO OF DAYS		248	228	248	240	248	248	279	275	279	279	240	248	3269
SUM OF TEMPERATURES		14935	13958	18219	17879	20210	22620	25977	26863	24968	23187	17510	15397	232751
AVERAGE		58.3	59.3	65.3	73.8	81.4	89.1	93.1	96.1	90.2	83.8	73.0	62.1	77.9

A & B Summaries (cont.)

AIR WEATHER SERVICE
DIRECTORATE OF CLIMATOLOGY
DATA CONTROL DIVISION

FREQUENCY OF DAILY TEMPERATURES MIN

ADANA TURKEY/INCIRLIK AB — 55 56 57 58 59 60 61 62 63

STATION NAME — PERIOD

STATION	YR	MIN (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTALS
33308		24/ 25		1											1
		26/ 27	1												1
		28/ 29	1	4	2										7
		30/ 31	6	10	2									1	19
		32	6	10	1									1	18
		33	2	3	4								1	2	12
		34/ 35	4	15	6	1							3	8	47
		36/ 37	18	14	11									10	53
		38/ 39	19	15	25								8	10	77
		40/ 41	36	22	22	1							5	17	106
		42/ 43	26	19	15	6							11	20	97
		44/ 45	36	25	24	1							12	33	137
		46/ 47	36	32	24	16						3	13	38	162
		48/ 49	21	18	39	33	1					4	2	33	168
		50/ 51	14	23	22	42	4					5	16	33	164
		52/ 53	9	16	15	37	21					16	23	21	151
		54/ 55	6	3	19	35	41					25	31	11	173
		56/ 57		2	5	36	46	3			7	33	42	6	184
		58/ 59			2	19	41	7	1		2	34	22		133
		60/ 61			1	7	31	22	3		11	54	21		152
		62/ 63			1	2	35	43	2	1	32	35	6		159
		64/ 65				1	22	54	1	3	44	34	3		166
		66/ 67					4	55	21	11	56	21	1		164
		68/ 69					2	37	47	33	43	2			161
		70/ 71						19	73	58	35	9			194
		72/ 73						16	65	97	21	1			200
		74/ 75						3	44	43	4	1			95
		76/ 77						1	19	18	1				39
		78/ 79						1	4	10	2				17
		80/ 81								5					5
TOTAL NO. OF DAYS			245	226	248	240	248	256	279	279	268	79	241	248	3057
SUM OF TEMPERATURES			10668	9610	11374	12563	14467	16701	19527	20110	17844	16588	12539	11432	173837
AVERAGE			43.5	42.5	45.9	52.3	58.3	65.2	70.0	72.1	66.6	59.8	52.2	46.1	56.9

A & B Summaries (cont.)

AIR WEATHER SERVICE
DIRECTORATE OF CLIMATOLOGY
DATA CONTROL DIVISION

FREQUENCY OF DAILY TEMPERATURES

MEAN

ACANA TURKEY/INCIRLIK AB

55 56 57 58 59 60 61 62 63

STATION NAME — PERIOD

STATION	YR	TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	TOTALS
33308		36/ 39	2	1											3
		38/ 39	1	5	1									1	8
		40/ 41		7										3	12
		42/ 43	11	12	6									1	30
		44/ 45	11	18	3								2	5	39
		46/ 47	24	16	10								2	12	64
		48/ 49	33	21	21	1							1	16	93
		50/ 51	31	32	17								14	18	126
		52/ 53	43	26	33	2							12	44	161
		54/ 55	35	30	32	5	1						12	49	162
		56/ 57	13	19	33	10							14	37	131
		58/ 59	13	25	29	31	2					2	16	27	146
		60/ 61	6	7	24	41	7					4	21	21	131
		62/ 63	1	4	17	35	16					9	7	6	103
		64/ 65		3	9	46	23					9	33	4	127
		66/ 67			10	21	37	1			1	37	34	3	144
		68/ 69			1	25	31	5			2	21	22	1	124
		70/ 71			1	16	36	12				22	17		111
		72/ 73			3	5	22	18			15	37	16		119
		74/ 75				1	24	47	4		23	43	4		146
		76/ 77					17	49	5	1	41	44	1		161
		78/ 79					15	37	16	6	66	17			154
		80/ 81				1	15	41	63	21	61	11			208
		82/ 83					7	24	106	86	33	3			261
		84/ 85					1	13	57	86	16	2			175
		86/ 87						4	12	55	6				80
		88/ 89						2	6	14	1	1			24
		90/ 91							1	3	1				5
		92/ 93						1	1	5					7
		94/ 95								1					1
		96/ 97								1					1
TOTAL NO. OF DAYS			248	226	248	248	248	254	274	279	248	279	248	248	3057
SUM OF TEMPERATURES			12627	11593	13854	15186	17405	19719	22980	23536	21145	20109	15096	13476	206724
AVERAGE			50.9	51.3	55.9	61.3	70.2	77.6	82.4	84.3	78.2	72.1	62.9	55.3	67.6

A & B Summaries (cont.)

AIR WEATHER SERVICE
DIRECTORATE OF CLIMATOLOGY
DATA CONTROL DIVISION

SNOW DEPTH*

SUMMARY OF DAILY AMOUNT

STATION NAME: ADANA TURKEY/INCIRLIK AB

PERIOD: 55 56 57 58 59 60 61 62 63

STATION	YR	MO	FREQUENCY OF OCCURRENCE: NONE	TRACE	1 INCH	2 INCHES	3 INCHES	4-6 INCHES	7-12 INCHES	13-24 INCHES	25-36 INCHES	37-48 INCHES	49-60 INCHES	61-120 INCHES	OVER 120 INCHES	TOTAL NO OF DAYS	SUM OF SNOW DEPTH AMOUNTS	MEAN SNOW DEPTH	Blank for Use with Remarks Item Code
33308		01	248													248			
		02	226													226			
		03	248													248			
		04	240													240			
		05	279													279			
		06	270													270			
		07	279													279			
		08	279													279			
		09	270													270			
		10	279													279			
		11	240													240			
		12	248													248			
TOTALS →			3106													3106			

*Snow depth measured at 0000 LST through 1948, at 1200 GCT thereafter. All forms of frozen precipitation included before 1 September 1956; beginning that date, hail is excluded.

A & B Summaries (cont.)

CLIMATIC CENTER, USAF
DATA PROCESSING DIVISION

WEATHER CONDITIONS

PERCENTAGE FREQUENCY OF OCCURRENCE

33308 STATION — ADANA TURKEY/INCIRLIK AB STATION NAME — ALL MONTH

YEARS

MONTH	HOUR (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN	SNOW AND/OR SLEET	HAIL	TOTAL OBS. WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	[illegible]	TOTAL NO. OF OBS.
01		.9	12.7		.1	.0	12.9	.9	.5		.1	1.4	5952
02		1.0	12.1		.1		12.1	1.7	.4		.1	2.2	5422
03		.7	7.1			.0	7.1	.9	.2		1.3	1.9	5952
04		1.4	5.2			.0	5.2	.8	.9		.8	2.4	5760
05		1.6	3.9				3.9	1.1	1.1		.2	2.3	6477
06		.6	1.0				1.0	1.4	.7		.2	2.1	6864
07		.1	.3				.3	1.6	1.6		.0	2.4	6695
08		.1	.1				.1	.6	.7			1.1	6696
09		.5	.8				.8	.2	.1		.0	.3	6479
10		.6	2.1				2.1	.1	.1		.0	.3	6696
11		.8	3.8		.0	.0	3.8		1.5		.5	2.0	5759
12		.9	13.5		.0		13.5	1.3			.2	1.4	5952
TOTALS		.8	5.0		.0	.0	5.0	.8	.7		.3	1.7	74204

A & B Summaries (cont.)

AIR WEATHER SERVICE
DIRECTORATE OF CLIMATOLOGY
DATA CONTROL DIVISION

PRECIPITATION

SUMMARY OF DAILY AMOUNT

ADANA TURKEY/INCIRLIK AB — STATION NAME

55 56 57 58 59 60 61 62 63, LESS JUL 55 — PERIOD

STATION	YR	MO	FREQUENCY OF OCCURRENCE: NONE	TRACE	.01 INCH	.02-.05 INCH	.06-.10 INCH	.11-.25 INCH	.26-.50 INCH	.51-1.00 INCH	1.01-2.00 INCHES	2.01-3.00 INCHES	3.01-5.00 INCHES	5.01-10.00 INCHES	10.01-20.00 INCHES	OVER 20.00 INCHES	TOTAL NO. OF DAYS	SUM OF PRECIPITATION AMOUNTS	MEAN MONTHLY PRECIPITATION	Mean No. of Days with Measurable Precipitation
39308		01	134	38	3	14	6	12	16	12	13						248	3563	485	95
		02	117	34	3	10	4	18	14	16	10						226	3365	427	93
		03	145	40	4	15	6	17	8	9	4						248	1629	229	79
		04	141	36	3	15	11	17	5	7	5						240	1766	221	79
		05	185	42	6	10	4	6	7	7	3	1					279	1866	207	58
		06	239	16	1	5	2	2		4	5						270	1121	125	23
		07	236	5		1	1	2									248	40	5	5
		08	271	3		2	1	1			1						279	200	22	6
		09	236	14		3	5	8	3	1							270	398	44	22
		10	222	18	4	8	4	11	9	4	1						279	846	84	43
		11	180	23	5	3	7	10	7	3	2						240	929	116	46
		12	126	35	8	14	8	14	13	8	14	2					248	4574	572	106
TOTALS →			2230	307	37	102	64	121	78	71	60	3					3075	20498	2603	639

A & B Summaries (cont.)

AIR WEATHER SERVICE
DIRECTORATE OF CLIMATOLOGY
DATA CONTROL DIVISION

SNOWFALL*

SUMMARY OF DAILY AMOUNT

ADANA TURKEY/INCIRLIK AB — STATION NAME

55 56 57 58 59 60 61 62 63 — PERIOD

STATION	YR	MO.	FREQUENCY OF OCCURRENCE: NONE	TRACE	0.1-0.4 INCH	0.5-1.4 INCHES	1.5-2.4 INCHES	2.5-3.4 INCHES	3.5-4.4 INCHES	4.5-6.4 INCHES	6.5-10.4 INCHES	10.5-13.4 INCHES	13.5-19.4 INCHES	19.5-30.4 INCHES	30.5-99.9 INCHES	TOTAL NO. OF DAYS	SUM OF SNOWFALL AMOUNTS	MEAN MONTHLY SNOWFALL	[illegible]
33308		01	243	4	1											248	2	TRACE	3
		02	222	4												226	TRACE	TRACE	
		03	245	3												248	TRACE	TRACE	
		04	239	1												240	TRACE	TRACE	
		05	278	1												279	TRACE	TRACE	
		06	270													270			
		07	279													279			
		08	279													279			
		09	270													270			
		10	278	1												279	TRACE	TRACE	
		11	238	2												240	TRACE	TRACE	
		12	247	1												248	TRACE	TRACE	
TOTALS →			3088	17	1											3106	2	TRACE	3

*For data before 1 September 1948, includes hail and all other forms of precipitation. Beginning that date, hail is excluded.

A & B Summaries (cont.)

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
AIR WEATHER SERVICE (MATS)

VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE

33308 ADANA TURKEY/INCIRLIK, AB ALL
STATION STATION NAME MONTH

YEARS

MONTH	HOUR (L.S.T.)	0, 1/16, 1/8 MI.	3/16, 1/4 MI.	5/16, 3/8, 1/2 MI	5/8, 3/4 MI	1 THRU 2 1/4 MI.	2 1/2 MI.	3 THRU 6 MI.	7 THRU 9 MI.	10 MI. AND OVER	TOTAL NO. OF OBSERVATIONS
01						.4	.0	4.8	5.4	89.4	5952
02		.0		.0	.0	.4	.1	3.7	7.8	87.8	5386
03		.1	.0	.0	.1	.2		2.7	4.4	92.2	5952
04		.0		.0		.1		3.0	5.6	91.3	5760
05			.0	.1	.0	.3	.1	2.3	5.6	91.7	6477
06			.0	.1	.0	.1		2.3	7.3	90.3	6365
07			.0	.0	.0	.0		2.5	13.0	84.4	6695
08		.0	.0			.0		1.1	10.3	88.6	6696
09		.0				.0		.4	2.2	97.4	6475
10				.0	.0	.0		.4	1.7	97.8	6696
11				.2		.2	.0	2.1	3.6	93.9	5759
12			.0	.1	.1	.3	.0	3.7	5.2	90.4	5952
TOTALS		.0	.0	.1	.0	.2	.0	2.3	6.0	91.3	74173

COLUMN HEADINGS ARE THOSE VISIBILITY VALUES USED IN ORDINARY REPORTING PRACTICES UNDER THESE PRACTICES, WHERE VISIBILITIES ARE ACTUALLY BETWEEN REPORTABLE VALUES, THE LOWER VALUE IS RECORDED.

A & B Summaries (cont.)

DATA PROCESSING DIVISION
CLIMATIC CENTER USAF
AIR WEATHER SERVICE (MATS)
ASHEVILLE, NORTH CAROLINA

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE

33308 ADANA TURKEY/INCIRLIK AB ALL
STATION STATION NAME MONTH

YEARS

HOUR	OBS. NO.	FREQUENCY OF TENTHS OF TOTAL SKY COVER BY GROUPS							MEAN TENTHS OF SKY COVER	SUM OF TENTHS OF SKY COVER	TOTAL NO. OF OBSERVATIONS
		0	1-2	3	4-5	6-7	8-9	10			
01		18.1	11.3	4.3	7.0	10.1	15.5	33.7	6.0	35577	5952
02		21.7	11.1	4.2	7.5	10.3	15.0	30.3	5.6	30392	5422
03		19.9	13.6	6.6	9.3	11.0	16.1	23.7	5.3	31356	5952
04		15.5	12.9	6.4	12.1	13.9	17.8	21.4	5.5	31694	5760
05		23.0	17.8	7.5	12.2	14.6	14.9	10.1	4.3	27587	6477
06		37.8	19.5	7.9	12.8	10.9	8.1	3.0	2.8	17715	6365
07		42.5	20.4	6.9	12.7	10.1	5.5	1.8	2.4	15766	6695
08		56.2	20.6	5.9	9.3	5.3	2.4	.3	1.5	9726	6696
09		55.8	19.7	6.3	9.7	5.1	2.8	.7	1.5	9839	6479
10		45.9	17.6	5.7	8.6	7.4	8.3	6.5	2.6	17625	6696
11		28.4	18.0	6.3	9.3	9.8	12.5	15.7	4.1	23804	5759
12		17.2	12.5	5.8	8.8	9.1	13.9	32.7	5.8	34807	5952
TOTALS		32.6	16.4	6.2	10.0	9.7	10.8	14.3	3.8	285590	74205

A & B Summaries (cont.)

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
AIR WEATHER SERVICE (MATS)

CEILING HEIGHT

PERCENTAGE FREQUENCY OF OCCURRENCE

33308 ADANA TURKEY/INCIRLIK AB ALL
STATION STATION NAME MONTH

YEARS

MONTH	HOUR (L.S.T.)	0 - 400 FT.	500 - 900 FT.	1000 - 2000 FT.	2100 - 3000 FT.	3100 - 5000 FT.	5500 - 9500 FT.	10,000 FT. AND OVER OR UNLIMITED	TOTAL NO. OF OBSERVATIONS
01			.0	1.6	7.8	14.2	17.0	59.4	5952
02		.0	.1	2.5	7.0	12.7	11.0	66.6	5422
03		.1	.1	1.2	6.5	7.6	11.1	73.4	5952
04		.0	.1	2.9	8.4	5.2	8.4	75.1	5760
05		.0	.2	2.5	6.9	4.4	6.2	79.7	6477
06		.1	.1	2.9	7.0	2.8	2.2	84.8	6365
07		.0	.3	4.1	6.9	2.8	1.6	84.3	6695
08		.0	.1	1.6	3.4	1.1	.7	93.0	6896
09		.0	.0	.5	2.6	1.5	1.7	93.6	6479
10		.0		.2	1.2	2.4	5.0	91.2	6896
11			.0	.3	2.1	3.0	8.1	86.5	5759
12		.1	.3	2.6	6.1	11.6	12.4	66.9	5952
TOTALS		.0	.1	1.9	5.4	5.6	6.9	80.1	74205

COLUMN HEADINGS REFLECT CEILING VALUES REPORTED AS FOLLOWS. HEIGHTS REPORTED IN HUNDREDS OF FEET ABOVE THE GROUND TO NEAREST 100 FEET UP TO 5000 FEET, TO NEAREST 500 FEET UP TO 10,000 FEET, AND TO NEAREST 1,000 FEET ABOVE 10,000 FEET.

A & B Summaries (cont.)

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
AIR WEATHER SERVICE (MATS)

FLYING WEATHER

FREQUENCY OF OCCURRENCE

33308 ADANA TURKEY/INCIRLIK AB JAN
STATION STATION NAME MONTH
56 57 58 59 60 61 62 63
YEARS

MONTH	HOUR	WEATHER CLASSIFICATION			OBSERVATIONS WITH VISIBILITY < 1 MILE, CAUSED BY:						TOTAL NO. OF OBSERVATIONS
		CLOSED 1	INSTRUMENT 2	CONTACT 3	FOG	SMOKE AND/OR HAZE	BLOWING SNOW AND/OR DUST	PRECIPITATION	CAUSE UNKNOWN	TOTAL OBS. < 1 MILE	
	00			248							248
	01			248							248
	02			248							248
	03			248							248
	04			248							248
	05			248							248
	06			248							248
	07		2	246							248
	08		2	246							248
	09		1	247							248
	10		3	245							248
	11			248							248
	12			248							248
	13		1	247							248
	14			248							248
	15		2	246							248
	16		1	247							248
	17		4	244							248
	18		2	246							248
	19		1	247							248
	20			248							248
	21		1	247							248
	22		1	247							248
	23		1	247							248
TOTALS			23	5929							5952

1. CLOSED - CEILING < 500 FT. AND/OR VISIBILITY < 1 MI.
2. INSTRUMENT - CEILING 500 TO 900 FT. WITH VISIBILITY ≥ 1 MI. AND/OR VISIBILITY 1 TO 2½ MI. WITH CEILING ≥ 500 FT.
3. CONTACT - CEILING ≥ 1000 FT. WITH VISIBILITY ≥ 3 MI.

C SUMMARY

This standard monthly wind summary was prepared in the past by the Air Weather Service. The summary is rather unique in that flying conditions are first classified as Closed, Instrument, or Contact, then separate wind roses are constructed for each of these conditions. Most recent wind summaries (Part C only) have been completed without regard to flying conditions.

AIR WEATHER SERVICE
CLIMATIC CENTER
DATA PROCESSING DIVISION

SURFACE WINDS

PERCENTAGE FREQUENCY OF OCCURRENCE
DIRECTIONS BY SPEED GROUPS

33308 (STATION) ADANA TURKEY/INCIRLIK AB (STATION NAME) ALL (MONTH) (CLASS)

(YEARS)

SPEED / DIR	1 - 3 KNOTS	4 - 10 KNOTS	11 - 21 KNOTS	22 - 27 KNOTS	28 - 40 KNOTS	41 KNOTS AND OVER	TOTAL 4 KNOTS AND OVER	TOTAL NO. OF OBSERVATIONS %	TOTAL NO. OF OBSERVATIONS OBS.	SUM OF SPEED	MEAN WIND SPEED KNOTS
N	.8	5.3	2.2	.1	.0		7.6	8.4	6257	53609	8.6
NNE	1.1	9.6	4.5	.3	.0	.0	14.5	15.6	11583	104778	9.0
NE	1.3	9.6	5.4	.4	.1		15.4	16.8	12454	117729	9.5
ENE	.6	3.1	1.4	.1	.0		4.6	5.2	3890	32480	8.3
E	.8	2.9	.3	.0	.0		3.3	4.1	3023	18264	6.0
ESE	.4	1.3	.1	.0			1.4	1.8	1348	7364	5.5
SE	.5	1.6	.2	.0			1.8	2.3	1699	9750	5.7
SSE	.5	1.5	.1	.0	.0		1.6	2.1	1559	8940	5.7
S	.9	4.7	1.2	.0	.0	.0	5.9	6.8	5067	37285	7.3
SSW	.6	4.4	1.9	.0	.0		6.4	7.0	5155	44486	8.6
SW	.5	5.1	3.3	.0	.0		8.5	9.0	6693	63580	9.5
WSW	.3	2.3	1.1	.0			3.3	3.6	2702	20147	8.6
W	.4	1.8	.4	.0	.0		2.2	2.6	1949	15802	8.8
WNW	.2	.6	.1				.6	.8	611	3888	5.5
NW	.2	.7	.1	.0	.0		.8	1.0	767	6276	6.9
NNW	.2	.7	.2	.0	.0		.9	1.2	863	6381	7.4
CALM								11.5	8543		
TOTALS	9.6	55.1	22.5	1.0	.2	.0	78.8	100.0	74163	549867	7.4

CEILING vs. VISIBILITY - D SUMMARY

This standard monthly summary was prepared in the past by the Air Weather Service. It was normally prepared for a maximum of eight three-hourly periods for each month in the form of a simultaneous cumulative frequency distribution of ceilings vs. visibilities. If records were not complete for a particular three-hour group throughout the period of record, this hour group is omitted from the summary.

Most summaries of this type that were produced after January 1966 will be found under the Revised "A" through "F" Summary headings.

AIR WEATHER SERVICE
CLIMATIC CENTER
DATA PROCESSING DIVISION

FREQUENCY OF OCCURRENCE

CEILING VS VISIBILITY

339GR (STATION) ADANA TURKEY/INCIRLIK AB (STATION NAME) ——— JAN (MO.) ALL HRS. (L.S.T.)

56 57 58 59 60 61 62 63 (YEARS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ ⅛	≥ ¼	≥ ½	≥ 0
≥ 10000	58.1	59.1	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 9000	61.2	62.2	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 8000	66.6	67.9	68.1	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
≥ 7000	70.3	71.9	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 6000	73.3	75.1	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 5000	76.2	78.3	78.7	78.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
≥ 4500	78.3	80.6	81.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000	81.6	84.2	85.1	85.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
≥ 3500	83.9	87.7	88.6	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
≥ 3000	87.1	91.8	92.9	93.4	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
≥ 2500	88.7	94.6	96.2	97.0	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 2000	89.2	95.6	97.2	98.2	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 1800	89.4	95.8	97.5	98.4	99.1	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1500	89.4	96.0	97.6	98.6	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 1200	89.4	96.1	97.8	98.8	99.6	99.6	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
≥ 1000	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	89.4	96.1	97.8	98.8	99.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	5952

Attention is called to the cumulative nature of above figures in that they are totals which progress to the right and downward. Because of this, either element may be determined independent of the other by use of the right-hand column and the bottom row. The figure in the lower right corner is the total number of observations. The number of observations in which the station was meeting or exceeding any given minima may be determined from the figure at the intersection of the appropriate row and column. For stations with multiple minima, for example, 400 ft. and ½ mile or, 300 ft. and 1 mile or, 200 ft. and 2 miles, first determine the number of favorable obs. at 400 ft. and ½ mile from the intersection of the row ≥ 4 and column ≥ ½. The number of additional obs. created by the second criterion are those where ceiling = 300 and visibility ≥ 1. To determine this enter the column for ≥ 1 and subtract the ≥ 300 value from the ≥ 200 value. This result is added to the favorable obs. obtained for the first criterion. The number of additional favorable obs. due to the third criterion are those of ceiling = 200 and visibility ≥ 2. For these enter the column ≥ 2 and subtract the value for ≥ 200 from that for ≥ 300. This result added to the previous total gives the number of favorable obs. out of the total of all obs.

* PSYCHROMETRIC SUMMARY - E SUMMARY

This standard monthly summary was prepared in the past by the Air Weather Service. This summary provides a tabulation of wet bulb depression vs. dry bulb temperature. Tabulations for 3-hour groups, by month, are presented as raw frequencies; tabulations for all months, all hours combined, and for individual months, all hours combined, are shown as percentage frequencies.

DATA PROCESSING DIVISION
CLIMATIC CENTER USAF
AIR WEATHER SERVICE (MATS)

PSYCHROMETRIC SUMMARY

WBAN NO | STATION NAME | MONTH | HOURS EST | PERIOD OF RECORD | PAGE 1

11 CR AFAKS ILRELY/IA.IeLIA AL 1 All 56 57 58 59 60 61 62 63

Wet Bulb Temperature Depression (F)

Type F	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	Frequency Dry Bulb	Wet Bulb	Dew Point
69/7C														.1	.1																		.1	.1		
67/6E																																				
65/66					.2	.2	.4	.1	.2	.1																							1.0	1.		
63/64				.1	.4	.3	.2	.3	.2	.2																							1.9	1.9		
61/62			.1	.2	.4	.3	1.1	.6	.4	.2																							3.2	3.2		
59/60			.1	.4	.7	1.3	1.1	.8	.5	.2																							5.1	5.1	.2	
57/58			.2	.3	1.1	1.2	1.3	.6	.2	.1																							6.7	6.7	1.2	.2
55/56		.1	.1	.6	.8	1.4	1.0	.4	.2	.1																							7.2	7.2	2.6	.9
53/54		.1	1.1	2.2	.7	1.3	1.0	.7	.1																								9.7	9.7	5.1	2.1
51/52		.2	1.1	2.1	2.2	.4	.4	.4	.1																								11.0	11.0	8.1	3.1
49/5		.4	4.1	3.7	1.1	.2	.2	.2	.1																								12.1	12.1	12.2	5.2
47/48		.4	2.1	2.1	1.1	.4	.4	.1																									5.8	5.8	14.5	8.1
45/46		.4	4.1	1.1	1.1	.2	.1																										9.2	9.2	15.0	9.6
43/44		.2	2.1	1.1	1.1	.4	.4	.1																									7.4	7.4	11.4	12.1
41/42		.1	1.1	1.2	1.1	.4	.4																										5.0	5.0	7.9	11.5
39/40		.1	1.2	1.2	1.1	.4	.1																										4.0	4.1	6.3	8.6
37/38		.1	.2	.4	.4	.2																											2.0	2.	4.8	6.5
35/36			.1	.2	.1	.2																											1.7	1.7	4.1	5.2
33/34		.1	.1	.2	.2	.1																											1.0	1.	2.0	4.9
31/32			.1	.1	.1																												.5	.5	2.1	3.9
29/30				.0	.1																												.1	.1	1.2	4.2
27/28		.0	.1																														.1	.1	.8	3.2
25/26																																			.2	2.6
23/24																																			.1	1.9
21/22																																				1.9
19/20																																				1.1
17/18																																				1.1
15/16																																				.7
13/14																																				.4
11/12																																				.4
9/10																																				.4
7/8																																				.2
5/6																																				.0
3/4																																				.0
TOTAL	7.6	26.5	22.3	17.4	12.7	5.9	3.0	2.6	.9	.1	.0																						5952	5952	5952	5952

Element (E)	Σ x	Σ x²	x̄	No. Obs	Hours No. of Hours with Temperature <0 F	0-31 F	32-45 F	46-73 F	74-90 F	>90 F	Total
Dot Temp	3,049965	4,7361	58.4	59.55	5952							744.0
Dry Bulb	3,135741	4,97237	49.9	7.00	5952		5.3	2.0				744.0
Wet Bulb	2,237664	2,67352	44.5	6.20	5952		31.9					744.0
Dew Point	952727	231784	38.5	9.18	5952		165.2					744.0

*Total number of observations with both dry bulb and wet bulb temperature reported

*Most summaries of this type that were produced after January 1966 will be found under the Revised "A" through "F" Summary headings.

N-TYPE SURFACE SUMMARY

These standard surface summaries are prepared by the Air Weather Service. A full N-Type Summary is composed of 18 separate summary forms as indicated below.

Summary Form	Title
1	Percentage Frequency of Surface Winds by Month, Hour and Month, to 16 Points of the Compass.
2	Percentage Frequency of Surface Winds (Seasonal and Annual) to 16 Points of the Compass.
3	Precipitation
6	Mean Frequency of Daily Maximum Temperature; Mean Maximum and Extreme Maximum Temperature
7	Mean Frequency of Daily Minimum Temperature; Mean Minimum and Extreme Minimum Temperature plus the Mean Range.
13	Mean Number of Days favorable for Indicated Military Operations.
14	Miscellaneous Data
17	Total and Low Cloud Amounts
21	Ceiling Visibility-Terminal Flying Conditions (Revised Form # 18)
22	Relative Humidity Means
24	Percentage Frequency Distribution of Wind Speed and Temperature.
25	Visibility and Various Atmospheric Phenomena
26	Mean Number of Days With Specified Phenomena
27	Mean Cloudiness
28	Snow Depth
29	Percentage Frequency of Surface Winds to 8 Points of the Compass.
30	Percentage Frequency of Surface Winds to 8 Points of the Compass.
31	Sea Level Pressure

NOTE: One or all of the above Summary Forms may be included in N-Type Surface Summaries.

N Summary (cont.)

DATA PROCESSING DIVISION — PERCENTAGE FREQUENCY OF SURFACE WINDS — N SUMMARY # 1
USAF ETAC — IN KNOTS
AIR WEATHER SERVICE/MAC — JAN — 03 LST

40362 RAFHA ARABIA — N 29 39 — E 043 30 — ELEV 1455 FT
YEARS 63-64,66-68

DIR	WIND SPEED GROUPS								TOTAL PCT	TOTAL OBS	MEAN SPEED	DIR
	01-03	04-06	07-10	11-16	17-21	22-27	28-33	34-40 >40				
N		4.0							4.0	1	4.0	N
NNE			8.0						8.0	2	8.0	NNE
NE												NE
ENE				4.0					4.0	1	14.0	ENE
E				4.0					4.0	1	12.0	E
ESE			4.0	8.0					12.0	3	10.0	ESE
SE			4.0						4.0	1	9.0	SE
SSE		4.0	4.0		4.0				12.0	3	11.0	SSE
S		8.0							8.0	2	5.0	S
SSW	4.0	4.0							8.0	2	4.0	SSW
SW		4.0	4.0						8.0	2	5.5	SW
WSW	4.0	4.0	4.0						12.0	3	5.3	WSW
W		4.0							4.0	1	4.0	W
WNW	4.0		4.0						8.0	2	5.5	WNW
NW		4.0							4.0	1	6.0	NW
NNW												NNW
VBL												VBL
CLM												CLM
TOT	12.0	36.0	32.0	16.0	4.0				100.0	25	7.4	TOT

MAXIMUM WIND SSE 18

N Summary (cont.)

DATA PROCESSING DIVISION
USAF ETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF SURFACE WINDS
IN KNOTS

N SUMMARY # 2

WINTER

40892 OMALA ARABIA
JUN 58-APR 59;JUL 59-JUN 61

N 13 42 E 044 44 ELEV 4975 FT

DIR	WIND SPEED GROUPS 01-03	04-06	07-10	11-16	17-21	22-27	28-33	34-40	>40	TOTAL PCT	TOTAL OBS	MEAN SPEED	DIR
N			.3	.3						.6	6	10.3	N
NNE													NNE
NE	.2	1.3	1.2	2.1	.6					5.3	51	9.6	NE
ENE		.1								.1	1	9.0	ENE
E	.2	1.2	11.4	5.5	2.0	.2				20.6	197	10.2	E
ESE		2.7	9.2	6.1	24.1	1.8			.1	44.2	423	14.7	ESE
SE		.4	8.8	1.7	.2					11.1	106	8.7	SE
SSE	.2	1.0	2.4	1.3	2.9					8.4	80	11.4	SSE
S	.1	.1	1.6	1.5	.1					3.3	32	10.2	S
SSW		.1	.2	.8	.1					1.3	12	11.4	SSW
SW	.1		.2	.1						.4	4	7.8	SW
WSW			.1	.1	.1					.3	3	12.7	WSW
W			.1							.1	1	7.0	W
WNW													WNW
NW		.2	.4	1.2	.1					1.9	18	10.7	NW
NNW	.2	.2	1.4	.3						2.1	20	7.9	NNW
VBL													VBL
CLM										.2	2		CLM
TOT	1.2	7.8	37.6	20.9	30.2	2.0			.1	100.0	924	12.0	TOT

MAXIMUM WIND ESE 44

N Summary (cont.)

DATA PROCESSING DIVISION
USAF ETAC
AIR WEATHER SERVICE/MAC

PRECIPITATION AMOUNTS

N SUMMARY 8 3

40362 RAFHA ARABIA N 29 38 E 043 30 ELEV 1482 FT
FEB 66,APR 66,JUN 66-NOV 66,JAN 67-FEB 67,OCT 67-AUG 68,OCT 68-NOV 68

MEAN NUMBER OF DAYS WITH AMOUNT IN INCHES

SEE FOOTNOTES BELOW

MONTH	ZERO	0.004 OR LESS	GTR 0.004	GTR 0.39	GTR 0.99	MAX DAILY	MEAN MONTHLY	MAX MONTHLY	TOTAL OBS	MIN MONTHLY	YRS
JAN	31.0					.00	.00	.00	2		
FEB	23.3		4.7			.04	.19	.04	6		
MAR	31.0					.00	.00	.00	7		
APR	30.0					.00	.00	.00	9		
MAY	31.0					.00	.00	.00	9		
JUN	30.0					.00	.00	.00	6		
JUL	31.0					.00	.00	.00	9		
AUG	31.0					.00	.00	.00	7		
SEP	30.0					.00	.00	.00	8		
OCT	31.0					.00	.00	.00	8		
NOV	29.7		4.3			.28	1.20	.28	7		
DEC	31.0					.00	.00	.00	1		
ANN	356.0		8.9			.28	1.39	.28	74		

T--TRACE OF PRECIPITATION/0.004 INCH OR LESS.

MAXIMUM DAILY AND MAXIMUM MONTHLY VALUES ARE OFTEN SELECTED FROM INCOMPLETE MONTHS, AND MAY HAVE BEEN EXCEEDED HAD COMPLETE MONTHLY DATA BEEN AVAILABLE.

MEAN MONTHLY VALUES ARE MEANS ADJUSTED TO THE STANDARD DAYS PER MONTH, 31 FOR JANUARY, 28 FOR FEBRUARY, ETC.

MINIMUM MONTHLY VALUES ARE BASED ON ONLY THOSE MONTHS WITH ALL DAYS REPORTED, AND ONLY FULL YEARS ARE USED FOR THE ANNUAL LINE.

N Summary (cont.)

DATA PROCESSING DIVISION — MAXIMUM TEMPERATURE — N SUMMARY 0 6
USAF ETAC — MEAN NUMBER OF DAYS BY CLASSES; MEANS AND EXTREMES
AIR WEATHER SERVICE/MAC

40362 RAFHA ARABIA — N 29 39 — E 043 30 — ELEV 1455 FT
JAN 66-APR 66, JUN 66-MAY 67, AUG 67-DEC 68

CLASSES DEGREES F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ABOVE 129													
120 TO 129						4.6	7.4	10.3	1.4				23.9
110 TO 119						20.8	23.6	18.9	25.3	2.7			91.3
100 TO 109				5.0	28.8	2.3		1.7	3.2	14.8	1.5		57.3
90 TO 99	2.6	3.7	10.3	13.3	2.2	2.3				12.1	13.5		60.1
80 TO 89	2.6	11.2	14.9	11.7						1.3	12.0	25.2	78.9
70 TO 79	19.3	11.2	3.7								3.0	3.5	39.3
60 TO 69	3.2	1.9										1.9	9.0
50 TO 59	3.2												3.2
40 TO 49													
33 TO 39													
30 TO 32													
20 TO 29													
10 TO 19													
0 TO 9													
-1 TO -9													
-10 TO -19													
-20 TO -29													
-30 TO -39													
-40 TO -49													
-50 TO -59													
-60 TO -69													
-70 TO -79													
-80 TO -89													
BELOW -89													
ABOVE 99						29.4	31.0	29.3	26.8	2.7			119.2
ABOVE 89				5.0	28.8	27.7	31.0	31.0	30.0	17.5	1.5		172.5
ABOVE 79	2.6	3.7	10.3	18.3	31.0	30.0	31.0	31.0	30.0	29.7	13.0		282.6
BELOW 33													
BELOW 1													
MEAN MAX	61.2	68.9	75.8	80.4	93.9	103.5	107.9	106.5	102.7	91.2	78.7	70.4	86.9
EXTREME MAX	81	86	88	93	99	111	117	117	113	100	90	79	117
TOTAL OBS	12	15	27	18	14	13	21	18	19	23	20	16	216

N Summary (cont.)

DATA PROCESSING DIVISION
USAF ETAC
AIR WEATHER SERVICE/MAC

MINIMUM TEMPERATURE
MEAN NUMBER OF DAYS BY CLASSES; MEANS, EXTREMES
AND MEAN DAILY TEMPERATURE RANGE

N SUMMARY # 7

40362 RAPHA ARABIA — N 29 39 — E 043 30 — ELEV 1452 FT
JAN 63-DEC 64, FEB 66-DEC 68

CLASSES DEGREES F	JA	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ABOVE 119													
110 TO 119													
100 TO 109													
90 TO 99					1.9	2.4	7.1	3.2	4.8				19.4
80 TO 89					1.0	3.7	6.2	3.2	2.9				16.9
70 TO 79				2.4	9.7	19.6	17.7	22.1	7.7	3.7	1.7		84.7
60 TO 69		.9	2.7	7.3	18.5	4.3		2.9	14.5	16.7	4.8		68.8
50 TO 59	1.8	4.7	9.1	17.0	2.9					10.8	12.0	4.3	61.8
40 TO 49	10.8	11.2	18.2	3.2							8.6	10.7	62.7
33 TO 39	9.4	8.4	.9								3.4	12.8	35.0
30 TO 32	1.3	.9										1.1	3.3
20 TO 29	4.0	1.9										2.1	8.0
10 TO 19	4.0												4.0
0 TO 9													
-1 TO -9													
-10 TO -19													
-20 TO -29													
-30 TO -39													
-40 TO -49													
-50 TO -59													
-60 TO -69													
-70 TO -79													
-80 TO -89													
-90 TO -99													
BELOW -99													
BELOW 33	9.4	2.8										3.2	15.4
BELOW 1													
BELOW -29													
MEAN MIN	36.3	42.3	49.2	57.6	69.1	75.4	80.1	75.6	73.9	61.8	52.3	40.9	59.6
EXTREME MIN	18	25	36	48	57	61	70	66	63	50	34	23	18
TOTAL OBS	29	30	34	37	32	49	35	49	31	30	33	29	434
MEAN RANGE	19.9	28.2	32.1	22.7	24.3	20.7	20.1	20.6	20.0	27.4	20.1	20.0	20.5
TOTAL DAYS	2	0	7	10	9	6	9	7	3	8	7	1	79

N Summary (cont.)

AIR WEATHER SERVICE — N SUMMARY # 13

CLIMATIC CENTER — 02 LST

DATA PROCESSING DIVISION

MEAN NUMBER OF DAYS FAVORABLE FOR INDICATED MILITARY OPERATIONS

62059 DERNA LIBYA

32 44 N 022 38 E 30 FT

JAN 56-DEC 63

	FLYING COND A		INCENDIARY BOMBING		PARACHUTE OPERATIONS		CHEMICAL WARFARE		VISUAL HIGH LVL BOMBING	
MONTH	DAYS	OBS	DAYS	OBS	DAYS	OBS	DAYS	OBS	DAYS	OBS
JAN	31.0	232	10.8	232	11.1	232	7.8	232	10.4	232
FEB	28.0	225	10.4	224	11.3	224	7.4	224	9.1	225
MAR	30.9	248	9.2	247	14.3	247	8.8	247	12.9	248
APR	30.0	225	7.9	225	15.9	225	9.6	225	14.3	225
MAY	31.0	232	8.2	232	18.6	232	10.7	232	18.4	232
JUN	30.0	220	9.8	220	12.8	220	8.3	220	22.2	220
JUL	31.0	235	16.5	235	7.7	235	5.5	235	23.5	235
AUG	31.0	247	17.3	247	7.3	247	5.6	247	23.3	247
SEP	30.0	238	9.8	238	13.0	238	7.9	238	17.6	238
OCT	31.0	247	6.3	246	17.5	246	10.2	246	12.9	247
NOV	30.0	238	7.0	239	16.5	238	12.1	239	13.2	238
DEC	31.0	233	12.8	233	10.9	233	8.6	233	11.2	233
ANN	364.9	2820	125.9	2818	156.7	2817	102.9	2818	189.1	2820

FLYING CONDITION A--LOW CLOUD AMOUNT 0-4/8 , OR IF 5-8/8 HEIGHT MUST BE 984 FT OR GREATER, AND VISIBILITY 2 1/2 MI OR GREATER.

INCENDIARY BOMBING--SURFACE WIND 17 KTS OR GREATER WITH NO PRECIPITATION OCCURRING.

PARACHUTE OPERATIONS--FLYING CONDITION A WITH SURFACE WIND SPEED 10 KTS OR LESS.

CHEMICAL WARFARE--SURFACE WIND SPEED 4-10 KTS, TEMPERATURE 95-89 DEG F, & NO PRECIPITATION OCCURRING.

VISUAL HIGH LEVEL BOMBING--TOTAL SKY COVER 2/8 OR LESS WITH VISIBILITY 2 1/2 MI OR GREATER.

N Summary (cont.)

DATA PROCESSING DIVISION — MISCELLANEOUS DATA — N SUMMARY # 14
USAF ETAC
AIR WEATHER SERVICE/MAC — 03 LST

40362 RAFHA ARABIA — N 29 39 — E 043 30 — ELEV 1455 FT
JAN 63-DEC 64, JAN 66-JUN 67, OCT 67-DEC 68

MEAN NUMBER OF DAYS WITH OCCURRENCE OF VARIOUS WEATHER PHENOMENA

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
WIND SPEED >27 KTS			.4	.5									.9
TOTAL OBSERVATIONS	25	58	76	64	97	49	49	37	46	44	45	45	598
LIQUID PCPN		.3										.7	1.1
SNOWFALL													
THUNDER													
HAZE AND/OR SMOKE													
DUST				.3	.3							.7	1.3
TOTAL OBSERVATIONS	25	60	76	64	97	49	49	37	46	44	45	45	597
POB WITH													
VSBY <5/8 MI													
VSBY 5/8-2 1/4 MI													
VSBY >2 1/4 MI													
TOTAL OBSERVATIONS	25	60	76	64	97	49	49	37	46	44	45	45	597
SNOW DEPTH													
1.0 IN. OR MORE													
6.0 IN. OR MORE													
10.0 IN. OR MORE													
TOTAL OBSERVATIONS													

MEAN TEMPERATURE IN DEGREES FAHRENHEIT

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
MEAN	37.2	47.2	53.8	62.8	70.1	79.0	80.1	79.9	75.5	69.5	50.7	40.0	63.1
TOT OBS	25	60	76	64	96	49	49	37	46	44	45	45	596

N Summary (cont.)

AIR WEATHER SERVICE — N SUMMARY # 17

CLIMATIC CENTER — C2 LST

DATA PROCESSING DIVISION

MEAN NUMBER OF DAYS WITH INDICATED TOTAL AND LOW CLOUD AMOUNTS

62059 DERNA LIBYA

32 44 N 022 38 E 30 FT

JAN 56-DEC 63

MONTH	MEAN TOTAL CLD IN OKTAS	MEAN NUMBER OF DAYS WITH TOTAL CLOUD AMOUNT 0-1/8	0-2/8	3-5/8	6-8/8	TOTAL OBS	MEAN NUMBER OF DAYS WITH LOW CLOUD AMOUNT* 0-1/8	0-2/8	3-5/8	6-8/8	TOTAL OBS
JAN	3.8	8.3	10.4	10.4	10.2	232	10.3	12.7	10.3	8.0	232
FEB	4.0	7.3	9.0	8.3	10.7	226	9.5	11.3	7.4	9.3	226
MAR	3.3	9.6	12.9	9.9	8.3	248	13.1	15.8	8.9	6.4	248
APR	3.1	11.5	14.3	8.5	7.2	225	13.9	16.7	7.5	5.9	225
MAY	2.2	15.5	18.4	8.3	4.5	232	17.2	20.2	7.2	3.6	232
JUN	1.3	19.0	22.2	6.4	1.4	220	19.9	22.9	6.1	1.0	220
JUL	1.1	20.8	23.5	7.5		235	20.8	23.5	7.5		235
AUG	1.2	19.2	23.3	7.5	.1	247	19.2	23.3	7.5	.1	247
SEP	2.1	12.9	17.6	10.7	1.6	238	13.1	18.0	10.5	1.5	238
OCT	2.9	10.3	12.9	12.9	5.1	247	11.4	14.1	12.4	4.5	247
NOV	3.2	9.8	13.2	9.5	7.3	239	11.9	15.7	9.4	4.9	239
DEC	3.6	7.8	11.2	10.0	9.8	233	11.0	14.1	9.8	7.1	233
ANN	2.7	151.9	189.0	109.7	66.2	2822	171.4	208.1	104.6	52.2	2822

*LOW CLOUD AMOUNT IS FROM THE SYNOPTIC CODE SYMBOL N WITH A LOWER CASE H SUBSCRIPT AND NORMALLY REPRESENTS THE FRACTION OF THE CELESTIAL DOME COVERED BY THE CLOUD TYPE REPORTED FOR THE LOW LAYER OR IF NONE FOR THE MIDDLE LAYER REGARDLESS OF HEIGHT.

N Summary (cont.)

AIR WEATHER SERVICE — N SUMMARY # 21

CLIMATIC CENTER — JAN 02 LST

DATA PROCESSING DIVISION — PERCENTAGE FREQUENCY OF OBSERVATIONS WITH

LOW CLOUDS AND VISIBILITY REPORTED

62059 DERNA LIBYA

32 44 N 022 38 E 30 FT

YEARS 56,57,58,59,60,61,62,63

LOW CLOUD AMT 5-8/8 WITH LOW CLOUD HEIGHT IN FEET

VISIBILITY IN MILES	LOW CLOUD AMOUNT 0-2/8	3-4/8	000 TO 327	328 TO 655	656 TO 983	984 TO 1967	1968 TO 3280	3281 TO 4920	4921 TO 6561	6562 TO 8201	8202 OR ABV	TOTAL %	TOTAL OBS
BELOW 1/8													
1/8-5/16													
5/16-5/8													
5/8-1 1/4													
1 1/4-2 1/2													
2 1/2-6	36.6	21.6				1.7	28.4	1.7			4.7	94.8	220
6-12	4.3	.4									.4	5.2	12
12-30													
30 OR MORE													
TOTAL PCT	40.9	22.0				1.7	28.4	1.7			5.2	100.0	232

TERMINAL FLYING CONDITION A 100.0 % — TERMINAL FLYING CONDITION B % — TERMINAL FLYING CONDITION C %

A--VISIBILITY 2 1/2 MI OR GREATER WITH LOW CLOUD AMOUNT 0-4/8, OR IF 5-8/8, AT HEIGHT OF 984 FT OR GREATER.
B--VISIBILITY 1 1/4 MI OR GREATER WITH LOW CLOUD AMOUNT 0-4/8, OR IF 5-8/8, AT HEIGHT OF 656 FT OR GREATER, BUT NOT MEETING CONDITION A CRITERIA.
C--VISIBILITY LESS THAN 1 1/4 MI, OR LOW CLOUD AMOUNT 5-8/8 AT HEIGHT BELOW 656 FT.

N Summary (cont.)

DATA PROCESSING DIVISION — MEAN RELATIVE HUMIDITY PERCENTAGES — N SUMMARY 8 22
USAF ETAC
AIR WEATHER SERVICE/MAC

40362 RAFHA ARABIA — N 29 39 E 043 30 ELEV 1483 FT
APR 51-JUN 53, AUG 53-DEC 53, JAN 63-DEC 64, JAN 66-DEC 68

MONTH		HOURS LST 00	03	06	09	12	15	18	21	MEAN	TOTAL OBS
JAN	PCT		62.9		36.7		49.9		54.0	55.8	
	OBS		25		40		66		24		155
FEB	PCT		66.7		61.6		46.0		54.7	57.2	
	OBS		60		53		82		46		241
MAR	PCT		53.0		31.5		35.5		41.3	45.3	
	OBS		74		62		97		63		296
APR	PCT		51.5		44.5		32.7		39.6	42.1	
	OBS		64		69		80		43		252
MAY	PCT		49.2		35.5		20.7		33.3	33.7	
	OBS		56		57		98		42		253
JUN	PCT		31.4		27.9		18.8		28.3	26.6	
	OBS		69		68		97		48		262
JUL	PCT		33.7		26.7		17.9		25.2	25.9	
	OBS		49		63		88		48		248
AUG	PCT		35.5		29.1		20.1		29.9	28.7	
	OBS		37		65		106		44		252
SEP	PCT		40.7		26.7		19.7		27.7	28.7	
	OBS		48		55		103		44		248
OCT	PCT		44.3		42.9		26.4		37.9	37.9	
	OBS		44		70		102		47		263
NOV	PCT		64.7		57.3		40.1		55.6	54.4	
	OBS		43		70		109		52		274
DEC	PCT		59.4		59.6		47.2		55.4	55.4	
	OBS		45		50		98		47		240
ANN	PCT		49.1		43.3		31.2		40.2	41.0	
	OBS		596		718		1126		548		2988

N Summary (cont.)

DATA PROCESSING DIVISION — PERCENTAGE FREQUENCY DISTRIBUTION — N SUMMARY # 26
USAF ETAC — OF WIND SPEED AND TEMPERATURE
AIR WEATHER SERVICE/MAC — JAN — 03 LST

40962 RAFHA ARABIA — N 29 39 — E 043 30 — ELEV 1483 FT
YEARS 63-64,66-68

TEMPERATURE DEGREES F	WIND SPEED CLASSES IN KNOTS									TOTAL PCT	TOTAL OBS
	CALM	01-03	04-06	07-10	11-16	17-21	22-27	28-33	34-40	>40		
ABOVE 110												
106 TO 110												
101 TO 105												
96 TO 100												
91 TO 95												
86 TO 90												
81 TO 85												
76 TO 80												
71 TO 75												
66 TO 70												
61 TO 65												
56 TO 60			4.0								4.0	1
51 TO 55			4.0	4.0							8.0	2
46 TO 50				4.0							4.0	1
41 TO 45			4.0			4.0					8.0	2
36 TO 40		4.0	8.0	16.0	16.0						44.0	11
31 TO 35			8.0								8.0	2
26 TO 30				4.0							4.0	1
21 TO 25		4.0	8.0	4.0							16.0	4
16 TO 20		4.0									4.0	1
11 TO 15												
6 TO 10												
1 TO 5												
0 TO -4												
-5 TO -9												
-10 TO -14												
-15 TO -19												
-20 TO -24												
-25 TO -29												
-30 TO -34												
-35 TO -39												
BELOW -39												
TOTAL PCT		12.0	36.0	32.0	16.0	4.0					100.0	
TOTAL OBS		3	9	8	4	1						25

N Summary (cont.)

DATA PROCESSING DIVISION
USAF ETAC
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF
VISIBILITY AND VARIOUS ATMOSPHERIC PHENOMENA

N SUMMARY # 29
JAN

40362 RAFHA ARABIA
YEARS 52-53,63-64,66-68

N 29 39 E 043 30 ELEV 1459 FT

VISIBILITY	FOG	DUST	HAZE/ SMOKE	DRIZZLE	RAIN	SNOW	THUNDER	OTHER	TOTAL PCT	TOTAL OBS
< 1/8 MI										
< 9/16 MI										
< 5/8 MI										
< 1 1/4 MI										
< 2 1/2 MI										
< 6 MI		1.3							1.3	2
< 12 MI		1.9			.6			20.9	23.1	36
12 MI OR GTR								76.9	76.9	120
TOTAL PCT		1.9			.6			97.4	100.0	
TOTAL OBS		3			1			152		156

SINCE MORE THAN ONE TYPE OF PRECIPITATION, OR MORE THAN ONE TYPE OF OBSTRUCTION MAY BE REPORTED IN THE SAME OBSERVATION, THE SUMS OF THE VALUES IN THE INDIVIDUAL HORIZONTAL CATEGORIES MAY EXCEED THE TOTAL PERCENTAGE COLUMNS.

N Summary (cont.)

DATA PROCESSING DIVISION MEAN NUMBER OF DAYS WITH SPECIFIED PHENOMENA N SUMMARY # 28
USAF ETAC
AIR WEATHER SERVICE/MAC

40362 RAFHA ARABIA N 29 39 E 043 30 ELEV 1483 FT
MAR 63-APR 63,JUN 63-AUG 63,MAR 64,MAY 64,FEB 66-MAR 66,JUN 66-AUG 66,OCT 66-DEC 66,
FEB 67,OCT 67,JAN 68-AUG 68

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
MEAN DAILY CLOUDINESS													
2/8 OR LESS	31.0	28.0	31.0	30.0	31.0	30.0	31.0	31.0		31.0	30.0	31.0	
6/8 OR GTR													
TOTAL DAYS	1	4	12	9	5	4	6	4		4	4	1	
WIND SPEED >27 KNOTS													
TOTAL DAYS	1	4	12	9	5	4	6	4		4	4	1	
SNOWFALL													
TOTAL DAYS	1	4	11	9	5	4	6	4		3	4	1	
THUNDER													
TOTAL DAYS	1	4	11	9	5	4	6	4		3	4	1	
HAIL													
TOTAL DAYS	1	4	11	9	5	4	6	4		3	4	1	
HAZE/SMOKE													
TOTAL DAYS	1	4	11	9	5	4	6	4		3	4	1	
DUST*					4.2		3.2						
TOTAL DAYS	1	4	11	9	5	4	6	4		3	4	1	
FOG													
TOTAL DAYS	1	4	11	9	5	4	6	4		3	4	1	

*DUE TO CODING PRACTICES; DRIFTING SNOW OR BLOWING SNOW MAY ALSO BE INCLUDED.

THIS SUMMARY BASED ON AVAILABILITY OF A MINIMUM OF 4 SYNOPTIC OBSERVATIONS DAILY.

N Summary (cont.)

AIR WEATHER SERVICE — N SUMMARY # 27

ETAC, USAF

DATA PROCESSING DIVISION — MEAN CLOUDINESS

47016 BESAN KOREA

41 24 N 128 39 E UNKN FT

FEB 57-MAY 63

MONTH		HOUR, LOCAL STANDARD TIME 00	03	06	09	12	15	18	21	MEAN
JAN	PCT	24.7	27.0	30.0	43.0	33.2	45.0	38.6	30.9	34.0
	OBS	99	165	111	173	127	169	114	171	1129
FEB	PCT	28.3	30.6	39.2	42.2	39.7	46.8	41.1	31.5	37.4
	OBS	92	180	106	183	122	177	100	180	1140
MAR	PCT	42.8	40.4	47.4	53.1	59.6	58.7	56.9	41.7	50.1
	OBS	103	194	111	195	131	193	109	201	1239
APR	PCT	41.7	45.4	59.6	60.3	64.8	69.5	61.9	40.5	55.5
	OBS	109	183	105	179	131	187	111	190	1195
MAY	PCT	39.6	44.7	60.4	57.5	59.0	66.8	65.3	55.6	56.0
	OBS	113	187	106	180	138	186	119	191	1220
JUN	PCT	49.1	53.8	76.9	70.3	63.9	71.1	70.3	66.4	65.2
	OBS	88	155	81	147	109	146	86	166	978
JUL	PCT	57.3	64.8	85.7	74.6	66.9	70.5	75.0	68.7	70.4
	OBS	87	153	77	151	106	152	80	168	974
AUG	PCT	64.7	70.7	87.7	81.8	71.0	71.5	72.3	66.0	73.2
	OBS	91	159	83	158	119	149	87	166	1022
SEP	PCT	46.1	51.5	75.5	76.5	55.4	55.7	57.2	43.2	57.6
	OBS	105	174	106	148	127	157	101	161	1024
OCT	PCT	40.2	35.8	45.7	47.5	43.6	45.2	43.5	36.6	42.2
	OBS	116	174	116	170	134	170	109	177	1166
NOV	PCT	42.1	41.2	42.1	52.0	48.2	50.7	40.1	35.3	44.0
	OBS	78	167	84	160	105	154	83	164	995
DEC	PCT	41.1	38.4	38.8	52.3	39.8	41.8	43.3	38.0	41.7
	OBS	86	160	84	159	109	163	84	167	1012
ANN	PCT	43.2	45.3	57.4	59.3	53.7	57.8	55.5	46.2	52.3
	OBS	1167	2013	1170	2003	1453	2003	1183	2102	13094

N Summary (cont.)

DATA PROCESSING DIVISION — MAXIMUM SNOW DEPTH BY DECADE — N SUMMARY # 28
USAF ETAC — MEAN AND EXTREME DATES OF FIRST AND LAST
AIR WEATHER SERVICE/MAC — SNOW DEPTH OF TRACE OR MORE

STNNO STATION — NAME — N/S XX XX — E/W XXX XX — ELEV XXXXX FT
PERIOD OF RECORD (YEARS INV)
PERIOD OF RECORD (YEARS INV)

MAXIMUM SNOW DEPTH BY DECADE

DECADE	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
01-10	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
OBS	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
11-20	XXX											
OBS	XXXX											
21-END	XXX											
OBS	XXXX											

CODE T REPRESENTS LESS THAN .5 INCH.
CODE A REPRESENTS MORE THAN 7 INCHES.
CODE B REPRESENTS MORE THAN 72 INCHES.
CODE C REPRESENTS MORE THAN 157 INCHES.

MAXIMUM SNOW DEPTH, ALTHOUGH FROM VARIOUS ORIGINAL CODES AND UNITS, IS GIVEN ABOVE TO THE NEAREST WHOLE INCH. LIMITS USED IN N IS ARE TO THE NEAREST TENTH OF AN INCH.

FIRST AND LAST SNOW DEPTH OF TRACE OR MORE

	DATE	OBS*		DATE	OBS**	YRS
MEAN EARLIEST	DA MON YR		MEAN LATEST	DA MON YR		
EXTREME EARLIEST	DA MON YR		EXTREME LATEST	DA MON YR		XX

* NUMBER OF AVAILABLE REPORTS OF SNOW DEPTH BEFORE EXTREME EARLIEST, BUT IN THE SAME YEAR-MONTH.
** NUMBER OF AVAILABLE REPORTS OF SNOW DEPTH AFTER EXTREME LATEST, BUT IN THE SAME YEAR-MONTH.

MEAN DAYS WITH SNOW COVER EQUAL TO OR GREATER THAN ONE AND SIX INCHES

	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	ANN
1 INCH	XX.X												XXX.X
6 INCHES	XX.X												XXX.X
TOTAL DAYS	XXXX												XXXX

N Summary (cont.)

DATA PROCESSING DIVISION — PERCENTAGE FREQUENCY OF SURFACE WINDS — N SUMMARY # 29
USAF ETAC — IN KNOTS
AIR WEATHER SERVICE MAC — JAN 03 LST

40362 RAFHA ARABIA — N 29 39 E 043 30 — ELEV 1693 FT
YEARS 63-64,66-68

DIR	WIND SPEED GROUPS 01-06	07-16	17-27	28-40	>40	TOTAL PCT	TOTAL OBS	MEAN SPEED	DIR
N	4.0					4.0	1	4.0	N
NE		8.0				8.0	2	8.0	NE
E		8.0				8.0	2	13.0	E
SE	4.0	20.0				24.0	6	9.0	SE
S	12.0		4.0			16.0	4	7.3	S
SW	16.0	8.0				24.0	6	5.3	SW
W	4.0					4.0	1	4.0	W
NW	8.0	4.0				12.0	3	5.7	NW
VBL									VBL
CLM									CLM
TOT	48.0	48.0	4.0			100.0	25	7.4	TOT

MAXIMUM WIND SSE 18

N Summary (cont.)

DATA PROCESSING DIVISION — PERCENTAGE FREQUENCY OF SURFACE WINDS — N SUMMARY .0 30
USAF ETAC — IN KNOTS
AIR WEATHER SERVICE MAC — WINTER

40202 RAFHA ARABIA — N 29 39 E 043 30 — ELEV 1032 FT
APR 51-DEC 53, JAN 63-DEC 64, JAN 66-DEC 68

DIR	WIND SPEED GROUPS 01-06	07-16	17-27	28-40	>40	TOTAL PCT	TOTAL OBS	MEAN SPEED	DIR
N	4.2	4.8	.3	.2		9.6	82	7.9	N
NE	4.3	4.9	.2			9.4	81	7.6	NE
E	1.9	4.9	.6			6.6	43	10.3	E
SE	6.3	9.0	2.2			17.5	113	9.2	SE
S	4.3	9.1	1.2			14.7	93	9.4	S
SW	6.8	6.2	.5			13.4	87	7.4	SW
W	4.9	6.2	.8			11.9	77	8.6	W
NW	4.3	9.4	.9	.3		15.1	98	9.7	NW
VBL									VBL
CLM						1.7	11		CLM
TOT	37.2	53.9	6.6	.3		100.0	647	8.8	TOT

MAXIMUM WIND NNW 32

N Summary (cont.)

DATA PROCESSING DIVISION — SEA LEVEL PRESSURE IN MBS — N SUMMARY # 31
USAF ETAC
AIR WEATHER SERVICE/MAC

40557 DAHRAN ARABIA/AR-AR — N 26 38 E 050 09 ELEV 1781 FT
APR 51-DEC 53, JAN 63-DEC 64, JAN 66-DEC 68

MONTH	HOUR, LST 00 03	06 09	12 15	18 21	ALL
JAN MEAN	1021.5	1020.9	1020.0	1021.5	1021.0
S.D.	4.035	4.069	4.950	5.619	4.902
OBS	91	97	82	21	191
FEB MEAN	1019.7	1021.4	1018.1	1018.9	1019.4
S.D.	4.807	5.568	5.104	4.303	5.204
OBS	84	93	81	41	220
MAR MEAN	1015.4	1016.4	1016.8	1016.4	1016.7
S.D.	4.786	4.929	4.733	4.000	4.867
OBS	70	89	82	61	272
APR MEAN	1012.4	1013.4	1012.8	1012.8	1013.3
S.D.	4.295	4.191	4.765	4.000	4.606
OBS	87	91	74	87	219
MAY MEAN	1010.9	1011.7	1009.8	1010.4	1010.6
S.D.	3.341	3.594	3.146	3.307	4.287
OBS	91	90	101	91	293
JUN MEAN	1006.4	1008.2	1005.8	1007.2	1006.8
S.D.	3.383	3.270	4.310	3.436	4.044
OBS	44	97	104	90	255
JUL MEAN	1002.0	1003.6	1001.8	1002.3	1002.4
S.D.	2.405	2.392	2.640	2.138	2.508
OBS	90	97	114	44	205
AUG MEAN	1003.0	1003.2	1002.9	1003.8	1003.7
S.D.	1.704	2.461	2.422	2.359	2.489
OBS	45	44	105	49	203
SEP MEAN	1007.8	1010.1	1007.8	1009.0	1008.6
S.D.	3.355	3.385	3.071	3.447	4.292
OBS	44	90	110	49	293
OCT MEAN	1014.9	1017.2	1013.6	1016.1	1015.2
S.D.	2.718	4.019	3.698	3.095	3.805
OBS	46	92	102	48	288
NOV MEAN	1019.3	1021.4	1018.2	1019.4	1019.6
S.D.	3.144	3.756	4.449	4.252	4.102
OBS	49	98	93	40	240
DEC MEAN	1021.4	1022.3	1021.4	1021.8	1021.9
S.D.	4.843	4.891	4.349	4.944	4.713
OBS	42	90	89	32	253
ANN MEAN	1012.9	1014.7	1012.3	1013.3	1013.3
S.D.	7.617	7.689	7.897	7.260	7.774
OBS	883	690	1117	543	2893

REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS (RUSSWO)

REVISED "A" THROUGH "F" SUMMARIES

These revised summaries of surface weather observations are prepared by ETAC, Air Weather Service, and supplement the original "A" through "E" summaries for active stations. They provide a more detailed climatic summary of the elements previously covered.

These summaries are similar to Parts A-F of the Summary of Meteorological Observations, Surface (SMOS) which utilizes essentially the same program. However, two tables in the SMOS are not included in the RUSSWO. These are: wind direction vs. weather conditions, (contained in Part A) and wind direction vs. temperature (contained in Part E).

Part A - Weather Conditions/Atmospheric Phenomena

Part B - Precipitation/Snowfall/Snow Depth

Part C - Surface Winds

Part D - Ceiling Versus Visibility/Sky Cover

Part E - Daily Max, Min & Mean Temperature
Extreme Max & Min Temperature
Psychrometric Dry vs Wet Bulb
Relative Humidity

Part F - Station Pressure/Sea Level Pressure

WINDS ALOFT SUMMARY - WBAN 120 Rev.

The majority of these standard Winds Aloft Summaries have been prepared by the Air Weather Service. The format, however, is used also by the NCC and the Naval Weather Service. These summaries are either seasonal or monthly and are prepared for various constant height levels or constant pressure levels which has been indicated in the coding practices. No scaling of geostrophic winds was attempted to fill in missing data.

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
AIR WEATHER SERVICE (MATS)

{PERCENTAGE FREQUENCY} OF DIRECTIONS BY SPEED GROUPS

WINDS ALOFT SUMMARY

40597 ADEN ARABIA/KHURMAKSAR — MINILR — RAWINS — 850 MB — 9

21 52 53 54 55 56 57 58 59 60 61 62 63

	1-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63	64-72	73-85	86-99	100-120	121-150	151-200	201+	TOTAL ALL OBS		SPEED (KNOTS)	
																	OBS	%	MEAN	GEAR
N	3.3	.9															88	4.2	587	6.7
NNE	3.2	2.7	.0														125	5.9	1098	8.8
NE	4.2	10.0	.3														330	15.5	3696	11.2
ENE	5.8	27.6	2.5	.0													758	36.0	10915	13.7
E	4.1	20.7	3.7	.0													601	28.6	8852	14.4
ESE	2.0	.8															58	2.8	549	7.7
SE	.5	.2															16	.8	101	6.3
SSE	.6	.2															16	.8	97	6.1
S	.6	.0	.0														15	.7	89	6.0
SSW	.2	.0															6	.3	35	5.8
SW	.5	.1	.0														13	.6	99	7.6
WSW	.2	.2															9	.4	75	8.2
W	.3	.3															17	.8	121	7.1
WNW	.9	.1															21	1.0	130	6.2
NW	1.0	.2															24	1.2	163	6.8
NNW	1.2	.1															28	1.3	156	5.6
CALM																	2	.1		
TOTALS	609	1252	140	2													2105	-	25722	12.2
PERCENT	28.9	64.2	6.7	.1													-	100.0		
MEAN SPEED (KNOTS)	6.0	13.8	23.3	32.1																

67	10.4313	7.819	97863.752	375610.736	.390	.72	6.828	3.011	5.396
2105	9.994-	6.775	21036.426-	306811.007	.677-	1.44	.179	1.792	
9	4.177-	3.904	8792.568-	68799.814	.934-	.88	25723	12.2	

σ_x Standard deviation of east component
σ_y Standard deviation of north component
σ_v Standard vector deviation of wind velocity
r Correlation coefficient of north and east components
$\bar{s}$ Average wind speed
v Scalar wind speed
σ_s Ratio of standard deviations σ_y/σ_x

σ_1 Standard deviation of wind components along the major axis of the distribution
σ_2 Standard deviation of wind components perpendicular to the major axis of the distribution
β Angle of rotation of the major axis of the wind distribution, counter-clockwise from E-W direction
θ Resultant wind direction
V_r Resultant wind speed
σ_s Standard deviation of wind speeds
** Whenever ratio $\Sigma 1885.0000$, printed 999.9999
* Whenever ratio $\Sigma 188.88$, printed 99.99

MATS 50-86

1210WS ... 0-25 (Dec 50)

WBAN 120 Rev (cont.)

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
AIR WEATHER SERVICE (MATS)

{PERCENTAGE FREQUENCY} OF DIRECTIONS BY SPEED GROUPS

WINDS ALOFT SUMMARY

6345C ADDIS ABABA LIMIUPIA — WINTER — PIBALS — 6000 FEET

57 58 59 60 61 62 63

SPEED (KNOTS)	TOTAL ALL OBS.		SPEED (KNOTS)	
	OBS	%	OBS	MEAN
5.6 27.8	6	33.3	82	13.7
11.1 27.8 5.6	8	44.4	96	12.0
11.1	2	11.1	28	14.0
11.1	2	11.1	10	5.0
CALM				
TOTALS 5 12 1	18	-	219	12.2
PERCENT 27.8 66.7 5.6	-	100.0		
MEAN SPEEDS 5.2 14.1 24.0				

	$\bar{\theta}$	V_x	σ_x	Σxy	Σy^2	$\sigma_x/\sqrt{N}$	$\sigma_y/\sqrt{N}$	σ_a	σ_b	σ_θ
	84	11.0300	7.565	442.492	3163.000	.398	.68	8.686	3.539	5.415
	N	$\Sigma x/N$	σ_y	Σx^2		$\sigma_y/\sqrt{N}$	σ_y/σ_x			
	18	10.973-	6.175	2815.597		.562-	1.39	.480	1.889	
	$\bar{V}$	$\Sigma y/N$	σ_r	Σr^2		$\sigma_r/\sqrt{N}$	σ_r/σ_y	ΣV	$\bar{V}$	
	27	1.124-	4.370	20.228-	347.405	3.888-	.90	219	12.2	

σ_x Standard deviation of west components
σ_y Standard deviation of north components
σ_r Standard vector deviation of wind velocity
r Correlation coefficient of north and east components
$\bar{V}$ Average wind speed
V Scalar wind speed
a Ratio of standard deviations σ_y/σ_x

σ_a Standard deviation of wind components along the major axis of the distribution
σ_b Standard deviation of wind components perpendicular to the major axis of the distribution
θ Angle of rotation of the major axis of the wind distribution counter-clockwise from E-W direction
$\bar{\theta}$ Resultant wind direction
V_r Resultant wind speed
σ_θ Standard deviation of wind speeds
** Whenever value 21000.0000, printed 999.9999
* Whenever value 2100.00, printed 99.99

1210WS (Oct 50)

MATS 50-65

N-TYPE UPPER WIND ROSE

This standard type seasonal upper air wind rose has been prepared routinely by the Air Weather Service for a special project. The illustrated format is self-explanatory. Only a few deviations from this format have been made, i. e., a few stations have been tabulated by months and wind speed class intervals were changed slightly for a few stations on tabulation reruns.

AIR WEATHER SERVICE
DATA CONTROL DIV

SUMMARY NO. 15

PERCENTAGE FREQUENCY OF WINDS ALOFT

WICK SCOTLAND — STATION NAME — METERS — HEIGHT UNITS — 03075 — STATION NO

PERIOD

SEASON	HEIGHT	DIR \ SPEED		PERCENTAGE FREQUENCY OF SPEED GROUPS							TOTAL (%)	TOTAL OBS
		MPH	1-4	5-10	20-34	35-49	50-74	75-99	5 100			
		KNOTS	1-3	4-16	17-29	30-42	43-64	65-86	5 87			
		M/S	1-2	3-8	9-15	16-22	23-33	34-44	5 45			
1	1500	N		6 0	3 4		7				10 1	15
		NNE		3 4	7						4 0	6
		NE	7	5 4	7						6 7	10
		ENE	7	7		7					2 0	3
		E		3 4	1 3	7					5 4	8
		ESE		2 0	1 3						3 4	5
		SE	7	1 3							2 0	3
		SSE	7	7	7						2 0	3
		S		5 4	1 3	7					7 4	11
		SSW		3 4	1 3	7					5 4	8
		SW		4 0	2 7	1 3					8 1	12
		WSW	7	3 4	3 4	2 7	7				10 7	16
		W	7	3 4	7 4	2 0					13 4	20
		WNW		2 0	1 3	1 3					4 7	7
		NW		3 4	1 3	2 0	7				7 4	11
		NNW		3 4	2 0	2 0					7 4	11
		C										
TOTALS			4 0	51 0	28 9	14 1	2 0				100 0	149

SEASON CODE
1 = DEC JAN FEB
2 = MAR APR MAY
3 = JUN JUL AUG
4 = SEP OCT NOV

AWS/MC-FORM 310 12 DEC 61 PREVIOUS EDITIONS OF THIS FORM MAY BE USED

ROCKETSONDE SUMMARY

Rocketsonde Summaries, (winds aloft 80,000 to 250,000 feet) are not currently prepared in this format by the Air Weather Service. The format is similar to the WBAN 120 Rev. Tables I and II Rocketsonde Summaries are the current formats in use. NCC publishes monthly the High Altitude Meteorological Data Reports.

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
AIR WEATHER SERVICE (MATS)

{PERCENTAGE FREQUENCY} OF DIRECTIONS BY SPEED GROUPS

WINDS ALOFT SUMMARY

12868 ANN CAPE KENNEDY FLORIDA — JAN — ROCKETSONDE — 175000 FEET

61 62 63 64

FPS	.0	16.0	32.0	48.0	64.0	80.0	96.0	112.0	128.0	144.0	160.0	176.0	192.0	TOTAL ALL OBS		SPEED (KNOTS)	
DIR	0-15	16-31	32-47	48-63	64-79	80-95	96-111	112-127	128-143	144-159	160-175	176-191	192-207	OBS	%	AVG	MEAN
NNE											1			2	7.7	177	88.5
NE				1										1	3.8	37	37.0
ENE				1										1	3.8	37	37.0
E		1												1	3.8	19	19.0
ESE																	
SE																	
SSE																	
S																	
SSW																	
SW							1	1	1					4	15.4	274	68.5
WSW				1			1	2	3	1				8	30.8	816	102.0
W		1	1	2										6	23.1	546	91.0
WNW																	
NW			1		1									2	7.7	68	34.0
NNW	1													1	3.8	6	6.0
CALM																	
TOTALS	1	1	2	5	1		2	4	7	1				26	-	1880	72.3
PERCENT	3.8	7.7	7.7	19.2	3.8		11.5	15.4	26.9	3.8				-	100.0	FPS	122.0
AVG SPEED	6.0	16.5	24.0	34.6	45.0		64.3	93.5	122.6	151.0							
	256 W	50.2779 SIN	69.321 σ_x		57558.299 σ_x^2			185858.000 σ_y^2	.869 ρ_{xy}	1.38 σ_y/σ_x	64.719 $\bar{x}$	24.835 $\bar{y}$	46.685 $\bar{V}$				
	26 θ	48.755 SIN	56.856 σ_y		1267.042 σ_y^2			137039.942 σ_{xy}	1.125 ρ_{xy}/σ_y	1.59 σ_{xy}/σ_x	.723 σ_V	2.600 θ					
	35	12.279	42.378		319.252			48818.050	3.451	.70	1880	72.3					

σ_x Standard deviation of east components — PR L ±2.3 FPS
σ_y Standard deviation of north components — PR V ±0.7 FPS
σ_V Standard vector deviation of wind velocity — SD L ±2.6 FPS
ρ Correlation coefficient of north and east components — SD V 71.5 FPS
$\bar{x}$ Average wind speed
$\bar{V}$ Vector wind speed
θ Ratio of standard deviations σ_y/σ_x

σ_x Standard deviation of wind components along the major axis of the distribution
σ_y Standard deviation of wind components perpendicular to the major axis of the distribution
θ Angle of rotation of the major axis of the wind distribution counterclockwise from E-W direction
θ Resultant wind direction
$\bar{V}$ Resultant wind speed
σ_V Standard deviation of wind speeds
** Wherever ratio 21000/8888, printed 999 9999
* Wherever ratio 2100.00, printed 99 99

MATS 50-46

1200WS [illegible] 0-25 (Oct 50)

ROCKETSONDE SUMMARY

Table I & Table II (Temps, Pres, Density and the three extremes)

These are special summaries prepared by Air Weather Service (AWS) as a pilot project to provide the three (3) catagories of Temperature, Pressure, and Density for study and evaluation of recorded data from 25-75 kms. Further studies of this type will be tabulated and the limits extended upward when the data becomes available.

Table I

DATA PROCESSING DIVISION
USAF
AIR WEATHER SERVICE/MAC
ROCKETSONDE DATA

10720 FORT SHERMAN PANAMA CANAL ZONE MAY

	PRESSURE					TEMPERATURE					DENSITY				
	MEAN	DEV	MAX	MIN	OBS	MEAN	DEV	MAX	MIN	OBS	MEAN	DEV	MAX	MIN	OBS
26 XX	23.4211	.27051	23.739	24.947	9	52.3-	1.41-	51-	55-	9	40.1318	.39350	41.006	39.582	9
27 XX	21.8866	.31844	22.061	21.352	9	50.3-	1.732	49-	53-	9	34.1282	.36160	34.866	33.803	9
28 XX	21.6760	9.47852	47.947	18.378	10	47.3-	1.636	43-	49-	10	33.4773	14.27124	74.085	28.475	10
29 XX	18.6722	7.89919	41.150	15.661	10	45.6-	1.955	42-	48-	10	28.6073	12.17776	63.260	24.372	10
30 XX															
31 XX															
32 XX															
33 XX															
34 XX															
35 XX															
36 XX															
37 XX															
38 XX															
39 XX															
40 XX															
41 XX															
42 XX															
43 XX															
44 XX															
45 XX															
46 XX															
47 XX															
48 XX															
49 XX															
50 XX															
51 XX															
52 XX															
53 XX															
54 XX															
56 XX															
57 XX															
58 XX															
59 XX															
60 XX															
61 XX	.3085	.12529	.551	.208	4	7.3-	7.805	3-	14-	4	.4013	.22435	.740	.274	4
62 XX	.2663	.14311	.484	.183	4	7.3	4.787	3-	13-	4	.3535	.19959	.653	.241	4
63 XX	.2345	.12522	.425	.162	4	9.3	7.805	3	16-	4	.3103	.17510	.576	.213	4
64 XX															
65 XX															
66 XX															
67 XX															
68 XX															
69 XX															
70 XX															
71 XX															
72 XX															
73 XX															
74 XX															
75 XX															

Table II

Rocketsonde Summary (Cont.)

DATA PROCESSING DIVISION
USAF ETAC
AIR WEATHER SERVICE

ROCKETSONDE DATA

ANTIGUA BWI

MONTH JAN

-DENSITY-

	MAXIMUM 1 ID	MAXIMUM 1 VALUE	MAXIMUM 2 ID	MAXIMUM 2 VALUE	MAXIMUM 3 ID	MAXIMUM 3 VALUE	MINIMUM 1 ID	MINIMUM 1 VALUE	MINIMUM 2 ID	MINIMUM 2 VALUE	MINIMUM 3 ID	MINIMUM 3 VALUE
25 XX	6601171540	41.034	6601311104	40.878	6601191150	40.755	6501151400	39.256	6701131045	39.347	6501111400	39.363
26 XX	6601241200	34.890	6601191150	34.816	6601261104	34.737	6501181408	32.856	6501151400	33.139	6501201421	33.429
27 XX	6601281109	29.634	6601241200	29.558	6601311104	29.494	6501181408	28.079	6501201421	28.333	6501291400	28.586
28 XX	6601281109	25.358	6701131045	25.183	6501181408	24.032	6501201421	24.084	6601141113	24.063	6601114113	24.212
29 XX												
30 XX												
31 XX												
32 XX												
33 XX												
34 XX												
35 XX												
36 XX												
37 XX												
38 XX												
39 XX												
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44 XX												
45 XX												
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47 XX												
48 XX												
49 XX												
50 XX												
51 XX												
52 XX												
53 XX												
54 XX												
55 XX												
56 XX												
57 XX												
58 XX												
59 XX	6601171540	.793	6701131045	.773	6701131045	.369	6601281109	.354	6601261104	.386	6701121104	.369
60 XX	6601171540	.234	6601281109	.312			6601281109	.275	6601171540			
61 XX	6601171542	.798	6601280109	.773			6601281108	.276	6601171541			
62 XX												
63 XX												
64 XX												
65 XX												
66 XX												
67 XX												
68 XX												
69 XX												
70 XX												
71 XX												
72 XX												
73 XX												
74 XX												
75 XX												

SUMMARY OF CONSTANT PRESSURE DATA

WBAN 33

These summaries are prepared monthly for most U.S. operated upper air stations. The input data are taken from the Constant Pressure Blocks on the Adiabatic Charts (31, A, B, & C). The number of pages varies between eight and ten for each time period (00 and 12 GMT primarily). The sample shown is page "0". Page "1" contains data for the 850, 800, 750, and 700 mb levels. Higher levels are available (e.g. page 7 contains data for the 25, 20, 15, and 10 mb levels).

U. S. DEPARTMENT OF COMMERCE — NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

SUMMARY OF CONSTANT PRESSURE DATA
WBAN 33

ENVIRONMENTAL DATA SERVICE — NATIONAL CLIMATIC CENTER

STATION ST. GEORGE, BERMUDA, MUSED ELEVATION 0029 LAT 32 22N LONG 064 41W

						850 mb						1000						950						900					
13601	72	01	02	12	0	1021	17	6	35	135	04	0203	16	7	30	139	04	0637	12	8	36	140	05	1488	09	2	63	149	04	
13601	72	01	03	12	0	1020	19	8	44	220	10	0193	18	4	87	224	11	0631	13	9	77	230	11	1089	13	2	33	247	10	
13601	72	01	04	12	0	1021	18	0	87	005	03	0203	17	7	87	005	03	0641	15	2	87	125	01	1090	12	4	87	248	02	
13601	72	01	05	12	0	1016	19	0	87	233	07	0182	19	0	87	236	12	0602	16	7	84	243	19	1060	13	7	76	253	15	
13601	72	01	06	12	0	1013	20	0	87	249	08	0137	19	4	85	249	12	0578	17	0	82	272	16	1039	14	4	86	272	19	
13601	72	01	09	12	0	1018	18	8	62	320	18	0178	19	3	81	326	18	0610	11	3	78	320	17	1058	06	9	89	328	17	
13601	72	01	09	12	0	1027	14	0	43	030	03	0249	12	1	49	046	12	0676	08	0	69	056	08	1120	04	1	86	033	08	
13601	72	01	10	12	0	1027	18	0	95	193	05	0253	16	6	80	182	11	0687	12	5	71	182	10	1138	08	9	70	192	12	
13601	72	01	11	12	0	1026	19	0	72	195	07	0243	17	9	84	195	10	0681	13	4	78	195	08	1138	12	9	68	198	07	
13601	72	01	12	12	0	1026	20	1	82	180	06	0247	19	1	83	202	07	0688	17	6	20	211	08	1148	13	9	91	216	06	
13601	72	01	13	12	0	1027	19	1	87	180	04	0254	17	5	87	181	08	0692	15	5	81	182	02	1147	11	8	56	134	06	
13601	72	01	14	12	0	1025	18	0	93	200	09	0237	17	0	92	172	08	0673	14	0	93	166	11	1129	11	9	93	197	11	
13601	72	01	15	12	0	1025	19	1	77	170	04	0234	18	9	90	174	09	0671	13	5	61	174	08	1126	11	8	73	178	08	
13601	72	01	16	12	0	1016	19	5	90	180	06	0184	19	1	89	184	11	0604	16	8	68	190	13	1063	13	8	48	196	11	
13601	72	01	17	12	0	1021	12	0	91	355	10	0199	10	6	91	351	11	0674	08	6	61	345	12	1064	02	2	83	347	11	
13601	72	01	18	12	0	1028	14	2	83	040	07	0259	12	5	69	037	10	0688	09	9	74	052	08	1133	05	6	84	098	06	
13601	72	01	19	12	0	1026	16	7	78	065	03	0244	15	4	72	068	03	0678	11	2	81	073	03	1126	07	8	90	101	03	
13601	72	01	20	12	0	1022	18	5	91	100	07	0210	16	9	94	100	07	0641	10	5	69	100	07	1088	06	5	84	100	08	
13601	72	01	21	12	0	1021	17	5	88	125	04	0203	17	4	77	128	04	0638	12	1	89	140	05	1090	09	5	91	139	03	
13601	72	01	22	12	0	1020	19	0	90	155	07	0193	18	0	96	151	02	0632	14	5	91	156	02	1087	12	4	84	241	05	
13601	72	01	23	12	0	1019	19	1	88	180	10	0187	18	5	86			0624	15	2	84			1083	14	5		206	06	
13601	72	01	24	12	0	1018	20	8	93	223	08	0176	20	4	91	229	09	0621	18	2	89	244	12	1084	15	6	84	232	13	
13601	72	01	25	12	0	1023	20	0	62	084	06	0219	19	9	87	084	08	0659	16	1	70	229	09	1117	16	0	25	134	03	
13601	72	01	26	12	0	1022	18	0	81	334	11	0210	19	3	80	339	11	0642	11	9	90	354	13	1095	10	9	93	018	13	
13601	72	01	27	12	0	1023	14	8	52	340	04	0234	14	0	49	356	04	0669	09	9	62	356	05	1109	05	8	80	331	05	
13601	72	01	28	12	0	1023	15	6	59	230	04	0221	14	6	61	237	04	0692	11	1	64	313	07	1102	09	9	48	001	06	
13601	72	01	29	12	0	1016	19	0	85	180	08	0162	19	8	84	204	09	0601	15	9	72	251	15	1060	14	8	60	260	17	
13601	72	01	30	12	0	1017	19	0	94	150	07	0170	17	4	90	150	08	0608	15	3	90	181	13	1067	14	0	89	207	16	
13601	72	01	31	12	0	1013	19	0	90	239	09	0134	19	5	88	240	13	0573	15	0	85	229	24	1032	15	1	32	246	23	
			MEAN			1021	17	6	74	* 223		0206	16	9	74	* 217		0642	13	7	78	* 227		1096	10	9	72	* 240		
			NUMBER OF OBS			29	29		29	* 1.7		29	29		29	* 2.1		29	29		29	* 3.4		29	29		28	* 4.2		

RADIOSONDE SUMMARY

This standard Radiosonde Summary is prepared by the Air Weather Service. This summary is one of a series prepared from Heights, Temperatures, Relative Humidity and Wind (if available) for selected levels. The summaries are prepared by month, season and annual, over the period of record available, as indicated at the top of each summary sheet. The data are shown in the form of percentage frequency for each element.

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
AIR WEATHER SERVICE (MATS)

SUMMARY OF CONSTANT PRESSURE DATA
PERCENTAGE FREQUENCY BY MONTH

HEIGHT SUMMARY

40597 ADEN ARABIA/KHORMAKSAR
STATION — STATION NAME — NR. LVL.

HEIGHT (METERS)	MONTHS												ANN
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
-60/-41							.6	.1					.1
-40/-21						.8	6.2	1.5	.1				.7
-20/- 1						8.2	21.8	15.5	2.3				4.1
0/19					3.8	23.2	41.1	41.5	11.2				10.4
20/39				.6	13.3	40.6	25.7	29.2	32.7	.2			12.1
40/59			.5	4.2	33.3	23.6	4.6	10.6	30.5	7.4	.1		9.8
60/79		1.0	9.9	37.8	36.1	3.5		1.4	18.2	18.0	.3	.4	10.8
80/99	4.0	9.2	41.0	43.9	11.0	.1		.1	4.6	37.7	13.6	3.0	14.2
100/119	28.6	51.2	38.9	12.2	2.6				.4	31.1	45.7	29.5	19.4
120/139	58.2	31.9	9.1	1.3						5.6	34.5	48.1	14.4
140/159	18.6	6.0	.5								5.8	18.3	3.9
160/179	.4	.7										.8	.1
180/199	.1											.1	.0
TOTAL OBS	743	715	787	770	784	776	789	791	768	801	713	711	9148
MEANS HTRS	120	117	99	83	58	27	9	16	43	91	116	126	75
STD DEVS	14.2	14.9	15.1	15.3	20.2	19.4	18.5	18.7	22.8	19.2	14.7	14.2	45.3
MEANS FT	413	384	325	272	190	89	30	52	141	299	381	413	246
STD DEVS	46.6	48.9	51.5	50.2	66.3	63.6	60.7	61.4	72.5	63.0	48.2	46.6	148.6

Radiosonde Summary (cont.)

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
AIR WEATHER SERVICE (MATS)

SUMMARY OF CONSTANT PRESSURE DATA
PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY BY TEMPERATURE

TEMPERATURE HUMIDITY SUMMARY

40597 ADEN ARABIA/KHORMAKSAR — JAN — SFC
Station — Station name — Month — mb. Lvl.

• 51 52 53 54 55 56 57 58 59 60 61 62 63

TEMP. (°C)	RELATIVE HUMIDITY 01/09	10/19	20/29	30/39	40/49	50/59	60/69	70/79	80/89	90/100	UNKNOWN	TOTAL %	TOTAL OBS.
16 /17						.1			.1			.3	2
18 /19						.1	.1	.8	.4	.1		1.4	12
20 /21							.4	1.1	2.0	.1		4.6	34
22 /23						.3	1.1	3.8	1.9	.3		7.3	54
24 /25				.4	.1	1.4	12.4	21.4	4.7	.1		41.0	304
26 /27				.3	1.1	7.4	21.2	10.7	.3			40.9	303
28 /29					.1	.5	2.4	.9				4.2	31
30 /31					.1							.1	1
TOTAL				.7	1.5	10.1	38.2	38.9	9.4	1.2		100.0	741
									MEAN DEG. C			25.04	
									STD. DEV.			1.424	

SUMMARY OF METEOROLOGICAL OBSERVATIONS, RAWIN/RADIOSONDE

(SMOR)

This standard summary is prepared from U.S. Naval Weather Service or other meteorological service upper air meteorological records. This summary is one of a series prepared from Heights, Temperatures, Relative Humidity and Wind for selected levels. The summaries are prepared by month, season, and annual, over the period of record available, as indicated at the top of each summary sheet. The data are shown in the form of percentage frequency for each element.

NAVAL WEATHER SERVICE COMMAND
Environmental Detachment
Asheville, N. C.

CONSTANT PRESSURE DATA
PERCENTAGE FREQUENCY OF
RELATIVE HUMIDITY BY TEMPERATURE

TEMPERATURE
HUMIDITY SUMMARY

13620 BUCURESTI RUMANIA/BANEASA — JAN — SFC

PERIOD 57 58 59 60 61 62 [illegible] 64 65 66 67

TEMP. (°C)	RELATIVE HUMIDITY											TOTAL %	TOTAL OBS.
	01/09	10/19	20/29	30/39	40/49	50/59	60/69	70/79	80/89	90/100	UNKNOWN		
22-/21-										.2		.2	1
20-/19-								.2		.2		.4	2
18-/17-										.2		.2	1
16-/15-					.2			.6	.4	.4		1.7	8
14-/13-							.2	.2	.2	.4		1.0	5
12-/11-							.4	.6	.8	1.2	.2	3.3	16
10-/ 9-					.2		.6	.4	1.4	1.9	.8	5.4	26
8-/ 7-						.2	.4	1.0	.8	2.5		5.0	24
6-/ 5-							.8	.6	2.7	3.3	.4	7.9	38
4-/ 3-							1.7	1.7	4.2	5.4	.2	13.2	64
2-/ 1-			.2		.2	.4	.6	1.7	4.8	11.0		18.8	91
0 / 1						.6	1.4	1.2	4.1	9.9	.4	17.8	86
2 / 3						.6	1.2	1.7	3.9	4.3		11.8	57
4 / 5						.2	.8	2.3	1.4	1.9	.2	7.9	38
6 / 7						.4	.8	.6	1.0	1.0	.6	4.5	22
8 / 9							.2	.2				.4	2
10 /11							.2					.2	1
12 /13							.4					.4	2
TOTAL			.2		.6	3.5	9.9	13.0	26.0	43.3	2.9	100.0	484
									MEAN DEG. C			1.82-	
									STD. DEV.			5.204	

NAVWEASERVCOM SMOR

SUMMARY OF METEOROLOGICAL OBSERVATIONS, RAWIN/RADIOSONDE

SMOP (Cont.)

NAVAL WEATHER SERVICE COMMAND
Environmental Applications
Asheville, N. C.

CONSTANT PRESSURE DATA
PERCENTAGE FREQUENCY BY MONTH

HEIGHT SUMMARY

15420 BUCURESTI RUMANIA/BANEASA 1000 MB

HEIGHT METERS	MONTHS												ANN.
	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	
-180/-141		.2											.0
-140/-121		.2											.0
-120/-101												.2	.0
-100/- 81				.2									.0
-80/-61	.2											.4	.0
-60/-41	.2	.2		.4								.4	.1
-40/-21		.2	.2	.7								.4	.1
-20/- 1		.6		.2								.4	.1
0/19	.4	1.4	.2	2.0	.2		.2	.2	.3	.2	.2	1.4	.6
20/39	.2	3.0	1.0	2.9	.5		.6	.8			.4	1.8	.9
40/59	2.6	5.6	5.9	4.4	2.5	1.6	.9	1.4	.9	1.2	1.6	3.7	2.9
60/79	2.6	5.7	6.5	5.5	5.4	4.4	4.4	3.7	3.1	3.7	3.7	4.6	3.7
80/99	6.6	5.5	7.2	8.2	8.4	6.8	8.2	5.3	5.0	5.1	5.6	6.5	6.1
100/119	8.9	8.7	11.6	14.1	18.6	18.6	20.5	18.7	11.7	9.7	10.4	12.1	13.3
120/139	9.9	7.5	11.4	14.1	19.8	19.0	20.9	23.9	11.1	7.7	11.3	12.3	14.2
140/159	12.5	12.1	12.6	15.4	18.2	17.7	22.7	17.6	10.1	10.2	12.2	11.6	15.4
160/179	12.5	10.7	10.8	13.7	14.6	14.2	16.2	16.9	17.4	11.7	13.1	8.3	13.7
180/199	11.2	9.9	11.8	8.8	7.1	12.8	4.4	7.2	15.7	14.1	12.4	9.3	10.4
200/219	8.8	4.7	7.1	6.0	2.3	4.4	.9	2.7	10.2	13.4	6.7	8.2	6.3
220/239	9.1	6.9	7.1	2.0	1.6	.3	.2	.5	5.2	14.8	7.6	6.5	5.2
240/259	7.4	5.3	3.2	1.5	.5				2.8	11.3	3.0	4.8	3.7
260/279	4.3	4.0	4.0		.2				.8	3.4	3.4	4.2	2.1
280/299	2.2	4.3	.5							.9	2.9	1.1	.9
300/319	.9	2.2	.3							.3	.7	.9	.4
320/339	.6	2.0									1.1		.3
340/359		.8									.2	.2	.1
360/379		.2									.3	.4	.1
380/399												.2	.0
TOTAL OBS	537	506	594	546	560	548	635	624	636	647	536	560	6977
MEANS MTRS	172	169	196	131	134	140	192	138	169	186	173	153	154
STD DEVS.	62.1	81.1	60.3	54.8	39.8	37.1	32.7	35.5	41.6	52.5	62.6	71.9	56.7
MEANS FT	564	541	512	430	440	459	483	453	525	610	568	502	505
STD DEVS	203.7	264.1	197.8	179.8	130.6	121.7	107.3	116.5	136.5	172.2	205.4	234.6	186.0

NAVOCEANSYSCOM SMOP

SUMMARY OF METEOROLOGICAL OBSERVATIONS, RAWIN/RADIOSONDE

SMOR (Cont.)

NAVAL WEATHER SERVICE COMMAND
Environmental Detachment
Asheville, N. C.

PERCENTAGE FREQUENCY OF DIRECTIONS
BY SPEED GROUPS

WINDS ALOFT SUMMARY

15420 BUCURESTI ROMANIA/BANEASA WINTER RAWINS SURFACE 0

97 98 99 00 01 02 03 04 05 06 07

DIR	1-4	5-10	11-19	20-29	30-39	40-49	50-64	65-79	80-99	100-119	120-139	140-159	160-179	180-199	200-299	300	TOTAL ALL OBS. OBS.	%	SPEED (KNOTS) SUM	MEAN
	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-100	101-120	121-140	141-160	161-180	181-200	201-300	301-400				
N	1.1	.1															11	1.2	88	8.0
NNE	1.0	.4		.1	.1												14	1.6	140	10.0
NE	18.4	5.1	1.6	1.0	.6	.1											180	21.1	2783	15.5
ENE	1.0	.3	.2	.1													24	2.7	339	14.1
E	3.8	1.4		.1													50	5.6	703	14.1
ESE	.8																7	.8	31	4.4
SE	1.3																12	1.3	53	4.4
SSE	.4																4	.4	19	4.8
S	.6	.1															7	.8	47	6.7
SSW	.6	.1															6	.7	37	6.2
SW	21.7	6.4	.2	.1													234	28.4	1728	8.8
WSW	3.0	.6															32	3.8	224	7.0
W	7.8	2.6															86	9.8	503	5.9
WNW																				
NW	3.1	.3															31	3.5	144	4.6
NNW	.9	.2															9	1	65	7.2
CALM																	161	18.0		
OBS.	527	183	22	13	5	1											894	-	9872	9.5
%	58.9	18.2	2.5	1.7	.6	.1											-	100.0		
SPEED (KNOTS) SUM	4.7	12.1	28.5	22.6	47.0	58.3														
MEAN																				

$\bar{V}$ 30	σ_x .5919	σ_y 9.819	$\sum V^2$ 337739.936	$\sum V$ 86403.278	$\sigma_{Vx}/\bar{V}$ 20.424-	$\sigma_{Vy}/\bar{V}$ 16.87	σ_V 9.574	σ_θ 2.937	σ_θ 7.249
N 894	$\sum XY/N$ .292-	σ_V 7.793	$\sum X$ 261,367-	$\sum Y$ 543310.409	$\bar{V}_x/\bar{V}$ 28.658-	σ_{Vx}/σ_{Vy} 1.33	r .008	θ 3.707	
$\bar{\theta}$ 36	$\sum XY/N$ .503-	σ_θ 5.973	$\sum Y$ 449,889-	$\sum Y^2$ 327092.862	$\bar{V}_y/\bar{V}$ 11.870-	$\sigma_{Vy}/\bar{V}$ .08	$\sum V$ 5826	$\bar{\theta}$ 6.5	

σ_x Standard deviation of west components
σ_y Standard deviation of north components
σ_V Standard vector deviation of wind velocity
r Correlation coefficient of north and west components
$\bar{V}$ Average wind speed
$\bar{V}$ Vector wind speed
σ_θ Error of standard deviations = $\sigma_\theta/\sqrt{n}$

σ_x Standard deviation of wind components along the major axis of the distribution
σ_y Standard deviation of wind components perpendicular to the major axis of the distribution
θ Angle of rotation of the major axis of the wind distribution counterclockwise from 0° direction
$\bar{\theta}$ Resultant wind direction
$\bar{V}_x$ Resultant wind speed
σ_θ Standard deviation of wind speeds
* Whenever ratio ≥ 1000.000 printed 999.999
** Whenever ratio ≥ 100.00 printed 99.99

SUMMARY OF METEOROLOGICAL OBSERVATIONS RAWIN/RADIOSONDE

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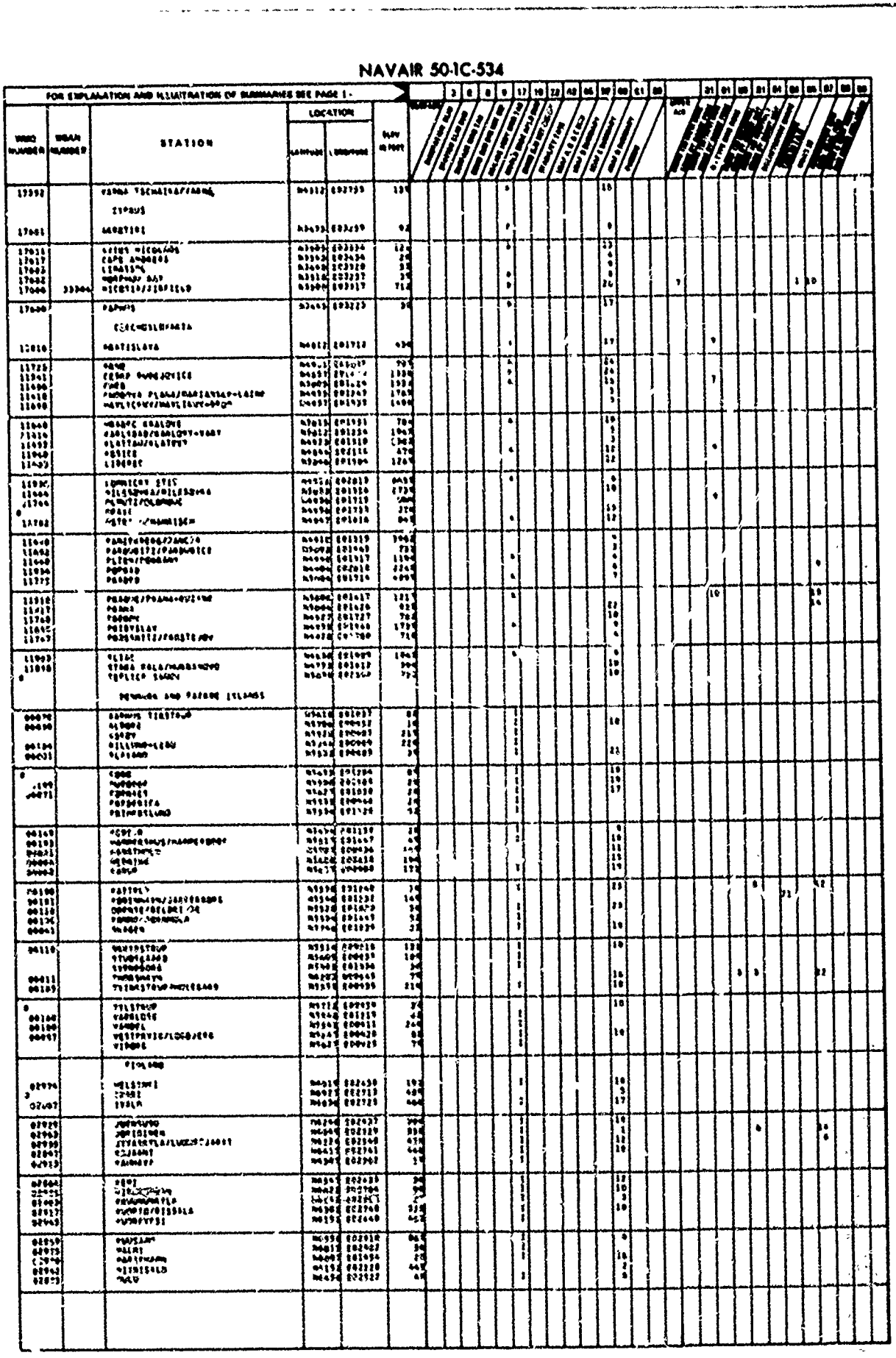
		EUROPE																											
		ALBANIA																											
13613		PJIRMESTER/BUJSKASTRA	40°03'	020°09'	623				X						3														
13620		KORCE/KORCA	40°36'	020°46'	2969				X						7														
0		KAREMI	40°30'	019°47'	1119				X						6					2									
13630		SARANDE	39°52'	019°52'	164				X						3														
13619		TIRANE/TIRANA	41°20'	019°49'	291				X						3														
		AUSTRIA																											
11147		AIGEN/MARKSCHACH	47°32'	014°09'	2089				1						6														
11181		AMSTETT	47°30'	014°53'	1381				1						6														
11105		FELDKIRCH	47°16'	009°36'	1371				1						10														
11155		FRIEDBERG	47°19'	015°44'	3228										4														
11240		GRAZ/THALERHOF	46°59'	015°27'	1128				1						8					9									
11230		HOHE DACHSTEIN/HOCH KLAGENFURT	47°30'	013°29'	9794										16														
11010	14128	HOHENSCHRIFT/LINZ	48°14'	014°11'	906				1			2			17														
11110		INNSBRUCK	47°16'	011°24'	1879				1						12					10									
11231		KLAGENFURT	46°37'	014°18'	1476				1						15					9									
11012		OBERSCHUETZEN	46°44'	016°00'	1260				1						10														
		LANGENLEBARN	48°19'	016°04'	570				1																				
11 4		LIENZ	46°49'	012°49'	2190										4					9									
0		LINZ	48°18'	014°19'	1240										8					9									
0		MELK	48°13'	015°20'	722										12														
0		PINKAFELD	47°24'	016°24'	906										5														
0		PATERNION	46°36'	013°32'	1318										5					9									
0		SAINT JOHANN	47°21'	013°12'	2017										8														
11150	14144	SALZBURG	47°48'	013°00'	1420				1						10					10									
0		SIMBACH	48°16'	013°02'	1240										9														
11144		WARMBLICK	47°32'	013°27'	13101				1						10														
11158		TARVISIO	46°31'	013°30'	3543										9														
11140		WELS	48°11'	014°02'	1043										9														
11034		WIEN/HOHE-WARTE	48°15'	016°22'	664				1						16												16		
11036	14105	WIEN/INNERE	48°14'	016°22'	575				1				0	4	3					10					9				
11142		WIENER NEUSTADT	47°49'	016°14'	879				1						10														
11103		FELTHEIM	47°12'	015°44'	2194				1						9														
11036		ZWISCHENLANDING/WIEN/SCHWECHAT	48°06'	16°33'	371				1						4														
		BELGIUM																											
06410		ARLON/TORTEMAN	49°41'	005°49'	335				1																				
06447		BERLE	50°07'	005°33'	1640				1																				
06434		BERTRIX	49°52'	005°14'	1561				1																				
06410		BIERSET/GOSSELIES/CHARLEROI	50°26'	005°28'	623				1						7														
06485		BOTRANGE	50°26'	005°06'	2771				1						9														
06442		BOUILLON/MAT	49°37'	005°00'	614				1																				
06401		BRUGE	51°10'	005°33'	204				1						7														
06471		BRUSSELS/NATIONAL	50°54'	004°30'	174				1						6				5										
06470		BRUSSELS	50°54'	004°11'	233				1						6				5										
06410		CHARLEROI-GOSSELIES	50°27'	004°27'	613				1																				
06432		CHIEVRES	50°34'	003°49'	192				1											1									
06478		FLORENNE/AFTRYPPEN	50°11'	004°38'	653				1						7					5									
		FLTTC(BRUGE	51°01'	003°06'	62				1																				
06419		FLORENNES	50°14'	004°39'	982				1						7					8									
		GHT	50°47'	005°13'	253				1																				
06479		GLFINE-BARRAGE	50°18'	005°28'	184				1						8														
06400		GOSSELIES/CHARLEROI	50°27'	004°26'	213				1						7														
06400	14110	LIEGE/BIERSET	50°37'	005°27'	1214				1																				
		MONTHUY-LES-BAINS	50°28'	004°17'	633				1																				
		MONTMEDY	49°31'	005°21'	1394				1																				
06427		MONTSURS/FLORENNES/FLEURUS	50°14'	004°39'	614				1						7														
06476		SAINT HUBERT	50°02'	005°24'	1033				1						7														
06430		SPA	50°29'	005°55'	1355				1						9				5				9						
06467		VECLY	50°04'	005°21'	361				1						7					14									
06490		VIELSALM	50°17'	005°54'	774				1						8														
		VERLAINE	50°32'	005°37'	1050				1						8														
06482		WOMBWORMONT	50°32'	004°46'	1365				1						7														
06410		ZEMST/MOSSEL	50°57'	004°32'	39				1						5				5										
		BULGARIA																											
15627		BOTEV PEAK	42°43'	024°55'	7035				X						3														
15609		BURGAS	42°29'	027°29'	92				X						0														
15613		CHEPAN/ TCHEPAN	43°19'	026°57'	722				X						7														
15619		CHIROPAN/TCHIROPAN	44°21'	027°32'	590				X																				
0		KABOVNYA	44°29'	025°19'	1220				X						10														
15633		KARTINA	42°28'	027°49'	2490				X						9														
15611		KARNOBAT/TCHORLUTSKOL	42°39'	026°59'	1171				X						9														
15621		KOJUHAR/TCHOBANISKA	42°31'	024°26'	5577				X						10					4									
15??		KRUSHEVO/KRUSHEVO	41°22'	021°34'	665				X						2														
15?.?		KYUSTENDIL	42°16'	022°41'	791				X						6														
15?1.		LOM	43°49'	023°13'	194				X						10														
15?15		MUSSALA	42°11'	023°39'	9595				X						6														
0		PETROHAN	43°01'	023°01'	4301				X						8														
15526		PLEVEN	43°25'	024°36'	246				X						13														
15?2?		PLOVDIV/PHILIPPOPOLI	42°08'	024°45'	344				X						14														
15?30		POLSKO/POLSKI-TSERKVA	42°12'	024°58'	151				X						14														
0		SANDANSKI	41°32'	023°15'	3116				X						7														
15713		SARNENSKI	42°39'	026°19'	825				X						15														
15614		SLIVEN	42°41'	026°19'	741				X						13														
15729		SMOLYAN	41°35'	024°41'	3573				X						9														
15616		VELIKO	43°04'	027°55'	197				X						16				10	10							10	10	
15741		VELIKOVRAD	42°46'	025°38'	196				X						3														
15594		VRATSA BOROI/BORAN/VRATSA	43°10'	023°34'	512				X						3														


FOR EXPLANATION AND ILLUSTRATION OF SUBMARINES SEE PAGE 1 -
WBC NUMBER
WBAN NUMBER
STATION
LOCATION
LATITUDE
LONGITUDE
ELEV (G) FEET
REMARKS
PRECIPITATION
SNOWFALL
SNOW DEPTH
WEATHER TYPES
SUNSHINE
SKY COVER
WIND DIRECTION
WIND SPEED
PEAK WIND
SEA LEVEL PRESSURE
STATION PRESSURE
PRESSURE TENDENCY
PRESSURE CHANGE
SEA SURFACE TEMP
WET BULB TEMP
DEW POINT
RELATIVE HUMIDITY
HEATING DEGREE DAYS
COOLING DEGREE DAYS
SUNRISE AND SUNSET
MOONRISE AND MOONSET

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WAC NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	3	6	8	9	12	24	42	48	50	51	58	01	01	02	01	01	04	05	06	06
02902		[illegible]	36 12N	097 56W	61					1				12											
02902		[illegible]	35 59N	097 27W	364					1				12											
02906		[illegible]	36 07N	096 46W	1008					1				10					7			14			
02908		[illegible]	36 13N	097 04W	776					1				5											
02912		[illegible]	36 01N	097 21W	177					1				10											
02914		[illegible]	36 03N	097 55W	328					1															
02911		[illegible]	35 59N	097 34W	17					1				19											
		FRANCE																							
0		[illegible]	34 33N	114 07W	33					1															
1		[illegible]	34 06N	094 44W	187					1				1											
07297		[illegible]	34 03N	098 29W	774					1															
07299		[illegible]	34 35N	097 37W	384					1															
07999		[illegible]	34 27N	097 36W	350					1															
07832		[illegible]	34 07N	098 38W	29					1															
07910	14948	[illegible]	34 32N	095 31W	93					1				9											
07288		[illegible]	34 08N	097 07W	197					1		10		20				33		9					
07289		[illegible]	34 19N	099 22W	329					1															
07121		[illegible]	34 09N	096 39W	119					1															
07110		[illegible]	34 02N	095 45W	550					1				10				33		8					
07140		[illegible]	34 03N	096 29W	262					1															
07105	34967	[illegible]	34 26N	096 59W	620					1		2	1	2											
07917		[illegible]	34 41N	095 40W	265					1															
07917		[illegible]	34 43N	096 19W	226					1															
07982		[illegible]	34 48N	098 33W	361					1															
07991		[illegible]	34 43N	098 08W	39					1				10											
07999	34963	[illegible]	34 19N	098 33W	774					1															
07140		[illegible]	34 09N	096 32W	876		17			1		3	3	3		6									
07144		[illegible]	34 08N	096 12W	468					1															
07144	34940	[illegible]	34 31N	098 16W	936		14			1		13	13	13		13		9	11			7			
07170	34992	[illegible]	34 05N	098 59W	1041					1		9	9	9	7			4	4			5	5		
07976		[illegible]	34 09N	098 12W	954					1															
07940		[illegible]	34 34N	098 59W	1098					1															
07612		[illegible]	34 39N	098 19W	94					1															
07107		[illegible]	34 19N	098 23W	692					1															
		[illegible]	34 03N	098 38W	466					1															
07997		[illegible]	34 19N	098 31W	784					1															
		[illegible]	34 11N	098 07W	862					1															
07648		[illegible]	34 34N	098 18W	1054					1															
07200		[illegible]	34 31N	098 45W	774					1															
07119		[illegible]	34 43N	098 28W	1134					1															
07141	34955	[illegible]	34 49N	098 19W	1008					1		6	6	6											
07968	34964	[illegible]	34 41N	098 41W	1066					1		6	6	6											
07938	34991	[illegible]	34 49N	098 11W	972					1		7	7	7											
07600		[illegible]	34 33N	098 44W	1					1															
	34959	[illegible]	34 49N	098 43W	820					1															
07967		[illegible]	34 59N	098 49W	1041					1															
07967	34818	[illegible]	34 58N	098 49W	1041					1															
07600		[illegible]	34 49N	098 11W	26					1															
07189		[illegible]	34 03N	098 21W	1004					1															
07968	34893	[illegible]	34 39N	098 33W	1041					1		10	10	10	9										
07928		[illegible]	34 02N	098 06W	812					1															
07903		[illegible]	34 31N	098 13W	84					1															
07237		[illegible]	34 11N	098 11W	1168					1															
07919		[illegible]	34 03N	098 38W	1134					1															
07288		[illegible]	34 19N	098 14W	771					1															
		[illegible]	34 14N	098 32W	1041					1															
07242		[illegible]	34 13N	098 22W	912					1															
07648	34823	[illegible]	34 34N	098 39W	669					1															
07898	34817	[illegible]	34 37N	098 14W	99					1				12											
07193		[illegible]	34 05N	098 26W	1134					1															
	39814	[illegible]	34 03N	098 29W	96					1															
07998		[illegible]	34 09N	098 48W	837					1				9											
07598		[illegible]	34 39N	098 11W	2468					1															
07647		[illegible]	34 41N	098 48W	1068					1															
07377		[illegible]	34 34N	098 30W	827					1				4											
		[illegible]	34 43N	098 49W	1068					1															
07648		[illegible]	34 02N	098 12W	1068					1															
		[illegible]	34 39N	098 59W	20					1															
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07939		[illegible]	34 48N	098 52W	1019					1															
07769	34888	[illegible]	34 39N	098 13W	1008					1		8	8	8											
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07140		[illegible]	34 08N	098 07W	715					1															
07618		[illegible]	34 37N	098 14W	1047					1															
07767		[illegible]	34 49N	098 41W	1041					1															
07194	34868	[illegible]	34 34N	098 07W	1052					1		3	3	3											
07770		[illegible]	34 33N	098 08W	1098					1															
07319		[illegible]	34 39N	098 31W	817					1															
07853		[illegible]	34 49N	098 28W	927					1															
07970		[illegible]	34 49N	098 49W	1131					1															
07198		[illegible]	34 03N	098 16W	1141					1															
07438		[illegible]	34 43N	098 39W	33					1				14											
		[illegible]	34 43N	098 23W	1131					1															
07648	34823	SALEM	34 54N	098 58W	1041					1															
07641		[illegible]	34 37N	098 24W	1028					1				2											
		[illegible]	34 43N	098 37W	1131					1															
07149		[illegible]	34 43N	098 08W	1131					1															
07217	14909	[illegible]	34 31N	098 09W	10					1															
07979		[illegible]	34 41N	098 41W	704					1															

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1-

WAC NUMBER	BASE NUMBER	STATION	LOCATION		RUN LENGTH
			LATITUDE	LONGITUDE	
03190		[illegible]-ENTRANCE	344832	1090137	302
03276	34072	[illegible]/AIRWAY BEACON	343909	1090430	0
03279	34051	[illegible]	343846	1090339	341
03660		[illegible]	401906	1090315	34
03691		[illegible]-FRANCAZAL	344331	1090122	336
07260		[illegible]	344723	1090615	326
07146		[illegible]	344843	1090127	336
		[illegible]	344631	1090436	346
		[illegible]	345021	1090322	321
07267	34071	[illegible]	344907	1090432	1728
07276		[illegible]	344815	1090126	0
07147	34043	[illegible]	344906	1090212	329
		[illegible]	344846	1090722	981
		[illegible]	344916	1090443	367
		[illegible]	345115	1090449	0
07761	34003	[illegible]	344933	1090446	0
07790	34002	[illegible]	344934	1090439	0
07758		[illegible]	345158	1090422	0
07769		[illegible]	345115	[illegible]	0
		[illegible]			
19701		[illegible]	345047	1090446	653
0		[illegible]	345459	1091422	1864
19718		[illegible]	345233	1090413	1194
19692	34109	[illegible]	344832	1091033	1615
	34079	[illegible]	344931	1090723	3574
19971	34107	[illegible]	344746	1091130	2365
19673	34183	[illegible]	344938	1091653	1760
19619	34077	[illegible]	344939	1090910	1468
0		[illegible]	344958	1091130	1184
19302		[illegible]	345234	1091312	1119
19366	33196	[illegible]	345216	1091436	1219
19610	34049	[illegible]	344957	1090634	1219
19229		[illegible]	345318	1091043	1311
	33050	[illegible]	345011	1090049	345
18216	33001	[illegible]	345242	1092147	351
19129		[illegible]	345312	1090433	351
19090		[illegible]	344754	1090735	0
19453		[illegible]	345148	1091027	3787
18401		[illegible]	345112	1090429	2431
19613		[illegible]	345018	1090743	1568
18399		[illegible]	345216	1090901	1237
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19349	33109	[illegible]	345258	1091401	1274
19492		[illegible]	345154	1091126	1218
19639		[illegible]	345011	1090641	921
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19408		[illegible]	345207	1091341	3648
19490		[illegible]	345115	1090648	1274
18694		[illegible]	345037	1090928	0
19262		[illegible]	345322	1090723	0
19969	34166	[illegible]	344818	1091134	1938
19594		[illegible]	345101	1091102	3081
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19260	33190	[illegible]	345218	1091311	3134
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18763	34198	[illegible]	344928	1091115	1758
19879		[illegible]	345024	1091237	3954
19631	34079	[illegible]	344958	1090849	1334
18968		[illegible]	345231	1091432	1962
19637	33033	[illegible]	345058	1090835	1424
19963		[illegible]	344826	1090731	4788
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	33033	[illegible]	345432	1090834	1969
19940	34178	[illegible]	344818	1091116	1769
0	34173	[illegible]	344958	1091050	1962
	34198	[illegible]	344824	1091032	1364
18399		[illegible]	345231	1091144	1974
19963		[illegible]	345134	1091134	2224
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18328		[illegible]	345134	1090419	0
19618	34095	[illegible]	344955	1090716	1412
19446		[illegible]	345118	1091157	1374
18147		[illegible]	345230	1091000	1374
19642	33004	[illegible]	345118	1090957	1374
18328		[illegible]	345218	1090943	1424
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	34198	[illegible]	344918	1091130	1444
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		[illegible]	344934	1090711	1867
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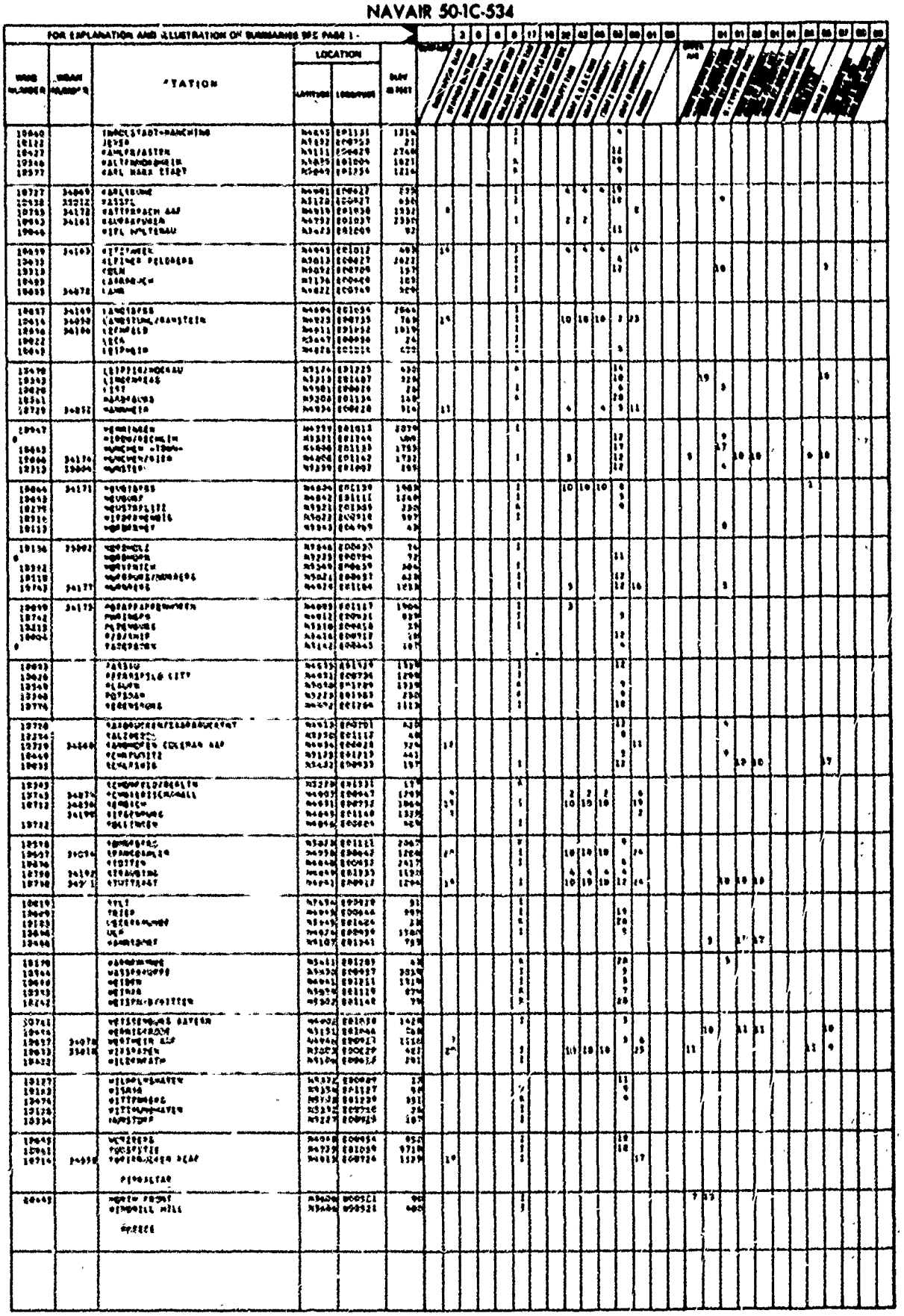

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
16472		ABILENE	N32327	W099124	1791
		ABILENE WSO	N32366	W099121	1791
16627		ALEXANDRIA/POLLOCK	N31201	W092333	131
16682		AMARILLO/PANA	N35135	W101417	3574
16687		ARDMORE	N34110	W097129	665
16716	03206	ATHENS	N32134	W095544	441
16721		ATLANTA-HILLSBORO/PTA	N33031	W084468	3585
16718		AUSTIN	N30304	W097333	726
16813		AUSTIN	N30418	W097421	2265
16667		BEAUMONT	N29568	W094051	1914
16796	03260	BIG SPRING	N32211	W101360	2357
16727		BROWNSVILLE/CAMERON	N25538	W097402	2274
16823		CAMERON	N30553	W096524	1081
16661		CORPUS CHRISTI/CRP/USN/NAS	N27504	W097501	1
16764		CORPUS CHRISTI/ROBSTOWN/NAS ISLAND	N27272	W097269	23
16810		DALHART	N36101	W102324	3742
16832		DENTON	N33212	W097149	2011
16695		DYESS	N32430	W099486	1719
16743		EASTHAVEN	N29508	W093509	404
16675		EDNA	N28594	W096726	91
16648		EL PASO/FORT BLISS	N31504	W106223	3964
16669		EL PASO	N31538	W106043	3918
16722		ELDORA	N32718	W098458	2037
16681		ELLINGTON/FIELD/TAGS	N29361	W095106	30
16740		FALCON	N26512	W099349	87
16734		FORT HOOD	N31080	W097463	1109
16730		GILES	N30403	W097422	1007
16667		GRIFFISS	N30304	W097039	16
16732		HAGERSTOWN/FIELDANE 19.	N39440	W077477	85
16693		HEA AMMUNITION	N29412	W097268	91
16639		HOUSTON/PATTON	N29513	W095164	108
16663		HOUSTON	N29513	W095068	140
16763		HOUSTON/WILLIAMS	N29476	W095217	2089
16749		HOUSTON/ROBOS-BOOKKEEPER ISLAND	N29472	W094907	1304
16672		KALAMAZOO/THESSALONIKI	N34531	W092381	161
16721		KANSAS	N39344	W094500	1041
16696		KERRVILLE	N30103	W099104	1727
16767		KITTIE	N29512	W095408	1141
16666		LAMPASAS 1.	N30516	W098453	1181
16746	03209	LUBBOCK AAF	N33337	W101499	6699
16766		MACON 13.	N32633	W092929	7321
16759		MADISON	N33594	W082448	351
16663		MEMPHIS	N35033	W090104	3639
16710		METROPOLIS	N37331	W088721	2105
16661		MIDLAND	N31922	W102354	2851
16725		MINNEAPOLIS	N44531	W093053	
		MINNEAPOLIS			
04366	14301	MINNEAPOLIS/ST PAUL	N44534	W093134	1151
04340		MONTICELLO	N45118	W093716	1161
	17919	NAAS CENTRAL	N27118	W096189	6426
	16623	NAAS KINGSLAND	N30131	W098123	1161
	16628	NAAS SAN	N30137	W097319	721
	16581	NEW ORLEANS ISLAND	N29402	W089334	6
04340	17208	NEW ULM	N44128	W094514	1161
04310		NEWBURGH/MUNI	N29446	W091046	1161
04329	16922	NEW ORLEANS/MOISANT	N29592	W090237	1371
		NEW ORLEANS	N29591	W090043	1041
04260		NEW ORLEANS/NAS	N29480	W090143	1161
04218		NORMAN	N35014	W097331	1161
04240	16506	NORTH/AAS	N30418	W095143	1161
04261	16606	OKLAHOMA	N35113	W094407	1161
04230	16507	OKLAHOMA/WILL ROGERS	N35436	W097362	1161
	16619	OKLAHOMA CITY/FAA/ARPT 2	N35424	W094617	1161
	16622	OKLAHOMA CITY/FAA/ARPT 3	N35411	W094155	1161
	16562	OMAHA	N35536	W095401	1161
		ONTARIO	N34113	W094018	1161
04316		ORANGE/MUNI	N30133	W093107	1161
04340		ORD TOWER	N41218	W092156	1161
	16567	ORLANDO ISLAND/ARPT 4	N41372	W093413	1161
	16582	MARINE POINT	N41324	W093113	1161
		OTTUMWA	N41218	W092134	1161
04283		OWENSBORO	N37504	W087113	1161
04240	16482	MARINE POINT	N41454	W093497	1161
04270	16469	PARKERSBURG	N39111	W091275	1161
04319		PEARL	N40134	W091849	1161
		PEARL LAKE	N40119	W093336	1161
04340	16498	PRINCE CHRISTIANS SOUND	N40403	W094318	1161
	16598	PARKERSBURG/ARPT 1	N39434	W091257	4781
	15723	QUINCY/SOUND	N39424	W092198	1161
	16487	RICHMOND	N40434	W094432	1161
	16483	RICHMOND/MUNI	N40413	W094128	1161
04331	16704	SAN ANTONIO	N40354	W095048	1161
04240		SAN ANTONIO/INTL	N40434	W095221	1161
04202	17909	SHALE	N37424	W098947	1161
04340		SIOUX CITY/MUNI	N42232	W096229	1161
		SPENCER/MUNI	N43411	W095111	1161
04212		STORM	N37401	W092315	1161
04216		SPRINGFIELD	N37243	W093416	1161
	17208	STORM BAY	N37534	W092159	1161
		SUMMER			
17944		SUPERIOR	N46431	W091467	1161

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV 20 FEET
12802		[illegible]	[illegible]	[illegible]	[illegible]
12851		[illegible]	[illegible]	[illegible]	[illegible]
12955		[illegible]	[illegible]	[illegible]	[illegible]
13641		[illegible]	[illegible]	[illegible]	[illegible]
13930		[illegible]	[illegible]	[illegible]	[illegible]
12772		[illegible]	[illegible]	[illegible]	[illegible]
12961		[illegible]	[illegible]	[illegible]	[illegible]
12992		[illegible]	[illegible]	[illegible]	[illegible]
12960		[illegible]	[illegible]	[illegible]	[illegible]
12812		[illegible]	[illegible]	[illegible]	[illegible]
12879		[illegible]	[illegible]	[illegible]	[illegible]
		ICELAND			
04063	16101	[illegible] APT	[illegible]	[illegible]	[illegible]
04049		[illegible] APT	[illegible]	[illegible]	[illegible]
04092		[illegible]	[illegible]	[illegible]	[illegible]
04083		[illegible] APT	[illegible]	[illegible]	[illegible]
04090		[illegible]	[illegible]	[illegible]	[illegible]
04087		[illegible]	[illegible]	[illegible]	[illegible]
04072		[illegible] APT	[illegible]	[illegible]	[illegible]
04011		[illegible]	[illegible]	[illegible]	[illegible]
04005		[illegible]	[illegible]	[illegible]	[illegible]
04045		[illegible]	[illegible]	[illegible]	[illegible]
04073		[illegible]	[illegible]	[illegible]	[illegible]
04090		[illegible]	[illegible]	[illegible]	[illegible]
04094		[illegible] APT	[illegible]	[illegible]	[illegible]
04066		[illegible]	[illegible]	[illegible]	[illegible]
04083		[illegible]	[illegible]	[illegible]	[illegible]
04018	16201	[illegible]	[illegible]	[illegible]	[illegible]
04064		[illegible]	[illegible]	[illegible]	[illegible]
04051		[illegible]	[illegible]	[illegible]	[illegible]
04093		[illegible]	[illegible]	[illegible]	[illegible]
04098		[illegible]	[illegible]	[illegible]	[illegible]
04075		[illegible]	[illegible]	[illegible]	[illegible]
04057		[illegible]	[illegible]	[illegible]	[illegible]
04077		[illegible]	[illegible]	[illegible]	[illegible]
04085	16203	[illegible]	[illegible]	[illegible]	[illegible]
04053		[illegible] APT	[illegible]	[illegible]	[illegible]
04056		[illegible]	[illegible]	[illegible]	[illegible]
04050		[illegible]	[illegible]	[illegible]	[illegible]
04013		[illegible]	[illegible]	[illegible]	[illegible]
04040		[illegible] APT	[illegible]	[illegible]	[illegible]
		[illegible]			
		ITALY			
03917	15611	[illegible]	[illegible]	[illegible]	[illegible]
03950		[illegible]	[illegible]	[illegible]	[illegible]
03973		[illegible]	[illegible]	[illegible]	[illegible]
03930		[illegible]	[illegible]	[illegible]	[illegible]
03955		[illegible]	[illegible]	[illegible]	[illegible]
03928		[illegible]	[illegible]	[illegible]	[illegible]
03969		[illegible]	[illegible]	[illegible]	[illegible]
03900		[illegible]	[illegible]	[illegible]	[illegible]
03971		[illegible]	[illegible]	[illegible]	[illegible]
03963		[illegible]	[illegible]	[illegible]	[illegible]
03942		[illegible]	[illegible]	[illegible]	[illegible]
03959		[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]			
		ITALY			
15520		[illegible]	[illegible]	[illegible]	[illegible]
15553		[illegible]	[illegible]	[illegible]	[illegible]
15590	36166	[illegible]	[illegible]	[illegible]	[illegible]
15630	36165	[illegible]	[illegible]	[illegible]	[illegible]
15670	36164	[illegible]	[illegible]	[illegible]	[illegible]
15650		[illegible]	[illegible]	[illegible]	[illegible]
15660		[illegible]	[illegible]	[illegible]	[illegible]
15675		[illegible]	[illegible]	[illegible]	[illegible]
16337		[illegible]	[illegible]	[illegible]	[illegible]
15530		[illegible]	[illegible]	[illegible]	[illegible]
15564	33619	[illegible]	[illegible]	[illegible]	[illegible]
15604		[illegible]	[illegible]	[illegible]	[illegible]
15652		[illegible]	[illegible]	[illegible]	[illegible]
15690		[illegible]	[illegible]	[illegible]	[illegible]
15564		[illegible]	[illegible]	[illegible]	[illegible]
15693		[illegible]	[illegible]	[illegible]	[illegible]
15693		[illegible]	[illegible]	[illegible]	[illegible]
15646	33115	[illegible]	[illegible]	[illegible]	[illegible]
15610		[illegible]	[illegible]	[illegible]	[illegible]
15660		[illegible]	[illegible]	[illegible]	[illegible]
15690		[illegible]	[illegible]	[illegible]	[illegible]
15644		[illegible]	[illegible]	[illegible]	[illegible]

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (FT)
16458		PARMA	N3734 E01417	3163	
16460		PESCARA	N4290 E01137	138	
16470	34139	PIOMBINO/FLORENCE	N4348 E01112	164	
16465	34189	PONTA DELGADA AZORES	N3724 E02548	748	
16550		PORTO	N4107 E00915	3238	
16492		SALA	N3703 E01613	158	
16525		SIRACUSA	N3704 E01530	328	
16468		SORA	N4137 E01312	334	
16496		SPEZIA	N4133 E01337	207	
16290		TORRETTA	N4246 E01104	14	
16324		MARTINA FR	N4031 E01724	193	
16546		MASSACCIUCCOLI	N4113 E00914	32	
16458		ISTRANA	N4103 E01203	138	
16548		CAMPOMAGGIORE I	N4150 E01134	79	
16263		LATINA	N4132 E01254	70	
16352		CECCHINA SORANTE	N4314 E01606	171	
16466	33126	LICATA	N3706 E01336	466	
16160		LIVORNO	N4332 E01210	82	
16324		MACERATA	N4318 E00947	1410	
16325		MARINA DI GIULIA	N4026 E01659	39	
16450		MARSALA	N3749 E01727	7	
16420		MESSINA	N3812 E01333	177	
16460	34019	MILANO	N4328 E00917	347	
16466		MILANO/MALPENSA	N4337 E00843	67	
16194		MONTE CIMONE	N4412 E01047	7129	
16219		MONTE TERMINILLO	N4228 E01259	6132	
		MONTICHIARI	N4323 E01019	1240	
16266	34113	NAPLES	N4053 E01417	210	
	34139	NAPOLI/POMIGLIANO	N4055 E01423	89	
		NUORO	N4019 E00918	1463	
16336		OLBIA	N4056 E00939	7	
16210		PERUGIA/SAN EGIDIO	N4328 E01119	62	
16536		PISTOIA	N4355 E00720	295	
16495		PARMA	N4524 E01131	67	
16418	33128	PALERMO	N3807 E01319	304	
16459		PALERMO/PUNTA RAISI	N3810 E01306	59	
16478		PANTELLERIA	N3648 E01157	832	
16348		PARMA	N4822 E01602	128	
16196		PARMA	N4447 E01620	207	
16466		PASSO RESIA	N4653 E01031	6968	
16180		PERUGIA	N4307 E01223	1670	
16230		PESCARA	N4228 E01412	24	
16464		PIACENZA	N4456 E00943	4419	
16452		PISA AMSA	N4354 E00742	11444	
16258		PRATICA I	N4139 E01000	87	
16150	34169	PISA/GIUSTO	N4341 E01024	6	
16280		PONZA I	N4055 E01154	667	
16360		PETESA	N4250 E01548	2766	
16243		PRATICA DI MARE	N4139 E01226	26	
16144		RAVENNA/SAN JANNI-DI-RAVENNA	N4423 E01219	28	
16140		RIETI	N4201 E01230	391	
16469		RIVOLTO	N4558 E01303	167	
16262		ROMA/PRATICA MO	N4137 E01214	7	
16194		ROMA/SP[illegible]A	N4139 E01244	223	
16193		ROMA/TUROS	N4157 E01229	19	
16190	34196	ROME	N4148 E01234	348	
16188		ROMECHI DEL LEGIONARI	N4148 E01232	19	
16360		S MARIA DI LEUCA	N3940 E01821	348	
16176		SAN PANCRAZIO	N4154 E01227	2134	
16160		SAN REMO	N4349 E00730	371	
16312		SASSARI	N4648 E00839	729	
16436		SCIACCA	N3731 E01309	416	
16499	33126	SIGONELLA SICILY MAP	N3724 E01435	107	
16464		SIRACUSA	N3706 E01517	49	
16398		TARANTO	N4628 E01719	128	
16460		TARVISIO/TARVISIO	N4631 E01319	2117	
16462		TORINO	N4503 E00704	988	
16450		TORINO CASELLE	N4511 E00639	988	
16420		TRAPANI-BIRGI	N3754 E01729	44	
16020		TRENTO	N4648 E01132	1024	
16060		TREVISO CITY	N4539 E01212	59	
16110		TRIESTE	N4239 E01346	32	
16466		UDINE	N4602 E01311	305	
		VENEZIA	N4520 E00853	1050	
16180		VENEZIA	N4526 E01222	59	
16120		VENEZIA-TESSERA	N4530 E01221	7	
16459		VERONA-OSSERVATORIO	N4525 E01059	298	
16098	34134	VERONA/VILLAFRANCA	N4534 E01033	269	
16044		VICENZA	N4534 E01131	129	
16246		VIESTE	N4153 E01611	197	
16122		VILLAFRANCA D'ALBENGA	N4403 E00807	134	
		LUVINBRUNE			
06595		CLEAVAGE	N4803 E06601	1499	
06597		HEMTEMPSACK	N4804 E06625	398	
06599		LUVERNE/MUNI	N4637 E06629	1276	
		MAITA			
		ABL AP	N2546 E01631	295	
16547		ADBA	N3551 E01428	207	
16549		ADLTA	N3555 E01631	286	
16546		AGRIGENTO	N3535 E01627	443	
		TA GALI	N3553 E01625	345	

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WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV. IN FEET
	NETHERLANDS			
06260	AMSTERDAM/SCHIPHOL	N5219	E00447	-10
06260	DE BILT	N5206	E00511	27
	DE KOOY	N5235	E00447	9
	DE PEEL	N5131	E00531	85
06275	DELFZIJL	N5324	E00655	177
06280	DEN HELDER	N5256	E00445	20
06285	EELDE	N5308	E00625	14
06370	EINDHOVEN	N5124	E00525	79
06350	ELLIP RIJM	N5134	E00436	39
06375	HOOGEE	N5136	E00548	15
06380	HOEK VAN HOLLAND	N5159	E00407	22
06225	LEEUWARDEN	N5228	E00434	72
06270	LELYSTAD	N5313	E00544	7
06300	MIDDELBURG	N5130	E00234	10
06272	ROTTERDAM	N5157	E00431	14
06344	SCHIPHOL	N5219	E00447	13
06265	TERSCHELLING	N5323	E00517	0
06210	VALKENBURG	N5210	E00435	7
06215	VLISSINGEN	N5127	E00350	47
06313	VOLKEL	N5139	E00553	82
06340	WOENSDRECHT	N5127	E00420	64
06290	YPENBURG	N5202	E00421	13
06380	ZUID LIMBURG	N5049	E00546	361
	NORWAY			
01219	ALESUND-VIGRA	N6234	E00607	71
01000	ANDENES	N6917	E01648	23
01010	BARDUFOSS	N6917	E01408	79
01023	BERGEN/FLESLAND	N6020	E00519	272
01316	BERGEN	N6024	E00519	161
01311	BERGEN/FLESLAND	N6017	E00513	164
01030	BJORNOYA ISLAND	N7431	E01901	44
01114	BODO	N6710	E01422	36
01420	BARENTSBURG	N7804	E01437	23
01402	FORDE	N6902	E00152	36
01364	GEILO/GEITAMO	N6032	E00812	2325
01001	JAN MAYEN ISLAND	N7101	E00829	108
01063	KARASJOK	N6928	E02531	435
01330	KJEVIK	N5844	E00834	26
	KJOLLEFJORD	N7058	E02102	340
01283	KRISTIANSUND/KVERVIK	N6902	E00459	139
01492	KRISTIANSUND/KVERVIK	N6912	E00903	49
01378	LILLEHAMMER	N6106	E01028	761
01262	MORKVEDBYEN	N6446	E01033	114
01445	MOSJOEN	N6550	E00703	24
01241	MYKLANDET	N6342	E00937	23
01400	MYSUSSTRAUMSJOEN	N5954	E01030	72
01304	26191 MYSUSSTRAUMSJOEN	N6013	E01107	663
01200	OSLO	N6039	E01113	2960
01494	OSLO	N5922	E01042	178
01190	OSLO/BLINDERN	N5945	E01033	1293
01413	OSLO/GARDERMOEN SOLB/SOLA	N6043	E00939	63
	TROMSOE	N6939	E01822	109
01482	TRYSIL	N6911	E01010	787
01015	TYNSSET-LANGNES	N6941	E01133	91
01090	TRONDHEIM/SKATTORA	N6942	E01403	79
01263	TYNSET	N6218	E01049	1441
01271	VARDOE	N6920	E01230	93
01490	VAAGO	N7022	E00100	63
	POLAND			
0	BIELSKO	N4948	E01948	1450
5	BIELSKO-BIALA	N4948	E01918	1000
12295	BIELSKO-BIALA	N4920	E02307	422
12299	BIELSKO-BIALA	N4922	E02311	469
0	BIELSKO-BIALA	N4924	E01935	1213
12423	BIELSKO-BIALA/WILKOWICE	N4924	E01859	1000
0	BIELSKO-BIALA	N4919	E01924	2200
12295	CHORZOW	N5042	E01725	1001
12350	CZESTOCHOWA	N5048	E01930	863
12190	KRAKOW	N5003	E01958	39
12920	KRAKOW-BALICE	N5004	E01959	1050
0	KRAKOW-BALICE	N5016	E01940	830
12149	KRAKOW-BALICE	N5011	E01932	43
12300	KRAKOW-BALICE/CZERNIA RADAR	N5004	E01940	1129
0	KRAKOW-BALICE	N5001	E01941	1000
12435	KRAKOW-BALICE	N5014	E01959	1077
12090	KRAKOW-BALICE RADAR	N4914	E01939	6529
12109	KRAKOW-BALICE	N5040	E02121	351
12270	KRAKOW-BALICE	N5001	E02037	800
12343	KRAKOW-BALICE	N5012	E01938	1329
12100	KRAKOW-BALICE	N5011	E01934	1000
0	KRAKOW-BALICE	N5033	E01925	1000
0	KRAKOW-BALICE	N5014	E01915	2722
12100	KRAKOW-BALICE/CZERNIA	N5012	E01911	1112
12944	KRAKOW-BALICE	N5009	E01939	1000
0	KRAKOW-BALICE	N4941	E02149	1000

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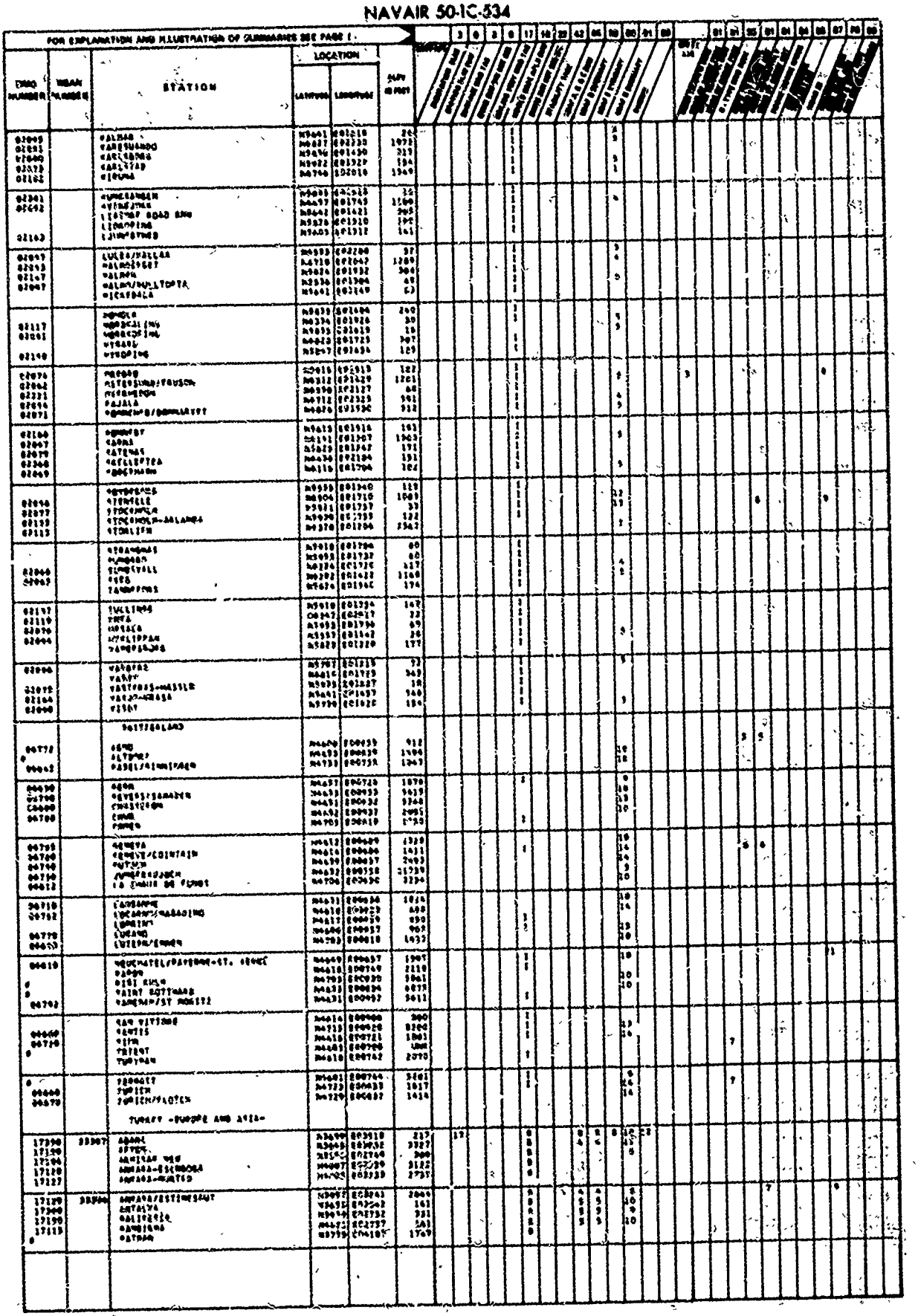
WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GROUND) FT
0		KUTUM	N1318	E01916	371
12300		CANDIDEROS/SURIEM	N1344	E01919	1979
12123		LOUENGUNG/LEODRA	N1433	E01745	72
12495		IDDI	N1144	E01839	614
12495		LUPLIN	N1316	E02234	981
12197		MIFLEC	N1316	E02127	538
12270		MLABA	N1307	E02021	4798
12272		MLSITIN	N1344	E02039	4561
0		PATRMUR/P/IMARAI	N1140	E02138	4361
12360		PLECA	N1231	E01941	2879
12350		POIMAN/LUNICA	N1223	E01651	5021
12693		PRIEMIEL	N1047	E02246	7641
12495		*ARGON/POLANT	N1123	E02107	1971
12340		*ATIRON/RACIDORI	N1045	E01814	6431
0		*UNEMUELSENMUNDE	N1426	E01823	23
12390		*ZEPIION	N1504	E02203	6461
12395		*UNDMUTEEE/IRANCH	N1441	E02144	4561
12203		*CHARFENNESSE/BRITANIKAA	N1301	E02132	3238
12510		*CHARTAOPPER/SAIZERA	N1344	E01944	5281
12305		*IPOLCP	N1220	E02220	3251
12310		*LUBICE/RAM TORSTADT	N1421	E01432	72
12360		*TALINMEADM/RATONICE	N1414	E01892	9381
12295		*TRITIM/SICZECIN	N1323	E01457	23
12113		*TOLOMUNOS/ULTRA	N1435	E01631	26
12195		*UWALET	N1404	E02237	1581
12200		*UINTUTSCIP	N1335	E01417	10
12575		TAMAMO	N1402	E02039	4861
12240		*TOPUM	N1331	E01837	1941
12225		*ULCT	N1317	E01828	1731
12375		*UMISAN/DRECIE	N1211	E02158	3311
12495		*UIPLUM/WIELUM	N1113	E01835	6551
0		*TRIPSE	N1300	E01716	2361
12823		TAMCPLANE	N1418	E01937	27381
12395		TAMCPC	N1245	E02318	7191
12460		TIPLUMA SOMA/GRUMORE	N1136	E01431	1731
		PORTUGAL -INCL-ATLANTIC ISLS			
		*LVEIRO	N4030	W00644	29
		*LVEROA	N3643	W00931	4
08362		*EJA	N3801	W00722	812
08573		*ARAGANCA	N4139	W00648	2356
08536		CAMO CARVOEIRO	N3921	W00924	312
0		*AMPO MAIOR	N3901	W00704	469
0		*ASTELO BRANCO	N3949	W00738	1359
08569		*EIMARA	N4011	W00425	459
08583		*ORTO/AIORTI	N3943	W01107	95
08557		*VORA	N3834	W00754	1053
08534		*ARO	N3901	W00915	121
08521		*UNCHAL/MADEIRA ISLAND	N3238	W01634	1804
0		*UARDA	N4032	W00716	3408
08540	13202	*PORTO/AIRPORT	N3833	W02458	289
0		*ARES	N3736	W00640	66
08559	13201	-AIER/TROCEIRA -AIRPT-	N3944	W02706	1761
08536	13918	LISBON/LISBOA	N3846	W00908	348
08503		*IMPLM/CAPE VERDE	N1653	W02400	52
0		*UNCPRTU	N4118	W00703	1361
0		*UNTELPSAE	N4152	W00144	3369
		*UNTE REAL	N3958	W00433	167
		*UNTIJO	N3842	W00901	35
0		*UNTU	N4116	W00834	328
		*TA	N3939	W00937	139
		*VAR	N4218	W00439	90
08568		PENHAS DOURADAS	N4220	W00733	4547
08512		PONTA DELGADA/AZORES	N3744	W02548	118
08571		PORTALEGRE	N3917	W00718	1778
08524		*PORTO SANTA/MADEIRA ISLAND	N3303	W01629	168
08543		*PORTO/PENHAS-DOURADAS	N4114	W00641	2391
08599		*PRAIA/CAPE VERDE	N1453	W02331	115
08598		*RAMFS	N3959	W00857	157
08594		*AL/CAPE VERDE	N1614	W02257	100
08513		*SANTA ANA/AZORES	N3756	W02533	100
08515		*SANTA MARIA/AZORES	N3658	W02510	328
		*SANTAREM	N3913	W00842	194
		*SINTRA	N3850	W00928	446
		*TAMCMS	N3918	W00822	288
08563		VIANA DO CASTELO	N4141	W00850	33
08560		VILA REAL	N4116	W00744	1972
	13293	VILLA DO PORTO/AZORES	N3658	W02510	328
		ROMANIA			
15200		*ARAD	N4611	E02319	371
0		*ARNARESTI	N4439	E02709	230
15190		*BCAU	N4634	E02654	604
15197		*IBLAD	N4618	E02748	568
0		*OTOSANI	N4734	E02714	107
0		*ORITA	N4618	E02735	98
15420		*URNARFSTI/BANEASA	N4429	E02458	302
15350		OUTAV	N4529	E02649	310
15440		CALARASI	N4412	E02721	66
15324		CAMPULUNG/C-LUNG-MUSCEL	N4517	E02537	1069
15425		CARACAL	N4407	E02622	304
15040		CIMPULUNG MOLDOV	N4517	E02552	2057
15120		CLUJ	N4641	E02332	1038
15440		CONSTANTA C	N4413	E02604	112
15458		CRAIOVA	N4418	E02348	623

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1 -

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
19290		NOVA	N4353 E02256	830
		PORTBAIT	N4341 E02732	197
19310		CALAIS	N4327 E02652	210
19470		ABBEVILLE	N4405 E02710	167
19490		[illegible]	N4318 E02739	361
19170		MIDDENKERKE CIVIC	N4402 E02544	2260
19080		NAISEA	N4302 E02136	443
19372		[illegible]	N4402 E02452	10027
19377		PLOISTI	N4407 E02406	586
19382		MARSEAL	N4330 E02539	3588
		RAMBICUR	N4408 E02459	886
19492		ORAAU	N4327 E02536	30946
19111		OBRAN	N4403 E02438	300
19010		[illegible]	N4348 E02253	484
		[illegible]	N4353 E02140	1732
19260		VIRIU	N4348 E02409	1405
19404		VIBROT	N4334 E02359	982
19325		VINAIA	N4321 E02534	2921
19340		VULINA	N4309 E02548	30
19265		TECUCI	N4349 E02726	189
19267		TIRISOARA/CIOCA	N4347 E02117	295
19165		TIRGU MURES	N4633 E02432	10138
19490		TURNU MAGURELE	N4344 E02438	101
19410		TURNU SEVERIN	N4436 E02238	295
19366		VALCEA/CALIMANESTI	N4315 E02421	910
19260		WAP OMUL	N4327 E02427	8228
		SPAIN AND BALEARIC ISLANDS		
08280		ALBACETE	N3900 E00151	2231
08315		ALCALA DE HENARES	N4431 E00320	1969
08349		ALICANTE/LA RABASA	N3821 E00029	262
08480		ALMERIA	N3651 E00228	213
08330		ARANJUEZ/TALAVERA LA-REAL	N3953 E00449	630
08221	14967	BARAJAS/MADRID	N4428 E00334	1972
08106		BARCELONA	N4123 E00209	312
08067	14013	BARCELONA BEALES RADAR	N4311 E00217	974
08019		BILBAO	N4319 E00255	30
08078		BURGOS	N4328 E00347	2822
08368		CIUDAD REAL	N3859 E00356	2065
08304		EL ARENOSILLO	N3754 E00644	139
08014		GIJON	N4331 E00539	43
08420		GRANADA	N3759 E00338	2261
08491		JEREZ	N3641 E00608	89
08001		LA CORUNA	N4319 E00822	187
08223		LOS ALCAZARES	N3744 E00051	6
		MADRID/CUATRO VIENTOS	N4028 E00347	2204
08224	14022	MADRID/BARAJAS	N4029 E00343	2039
08257	14015	MADRID/TORREJON	N4030 E00327	1972
08314		MAHON	N3949 E00416	191
08402		MALAGA	N3639 E00438	169
08006		MONFLORITE	N4295 E00019	1772
08367	13024	MORON DE LA FRONTERA	N3711 E00536	272
08439		MURCIA-ALCANTARILLA	N3756 E00116	246
08302		PALMA/MAJORCA	N3937 E00242	119
08366		PALMA/SON SAN JUAN	N3932 E00243	13
08177		REUS	N4108 E00110	248
08419	13029	ROTA PVC	N3639 E00621	88
08252		SALAMANCA	N4256 E00627	1909
08493		SAN FERNANDO	N3628 E00617	92
08033		SAN JAVIER	N3747 E00049	52
08419		SAN SEBASTIAN	N4322 E00146	2
08023		SANTANDER	N4328 E00347	217
08340		SEVILLA TABLADA	N3722 E00600	29
08341		SEVILLA/SAN PABLO	N3723 E00534	69
08246		TORTOSA	N4049 E00031	164
08265		VALENCIA	N3928 E00023	59
08140		VALLADOLID	N4141 E00441	2346
08180	14016	ZARAGOZA AP	N4129 E00101	840
		Tunisia		
60134		GABES	N3353 E00931	39
62063		SFAX	N3448 E00722	1031
62136		SOUSSE/R	N3549 E00753	49
62345		AJIMA	N3558 E01337	69
		AJIMEZZOUGH	N3829 E01303	232
62060		AJIM/MILIMA	N3629 E02139	118
62150		BIZERTA	N3726 E01004	69
62209		GAFSA/STAB	N3923 E01049	331
62344		KYRIN	N3553 E01409	78
62375		KASSERINE SUBAS	N3521 E01901	829
62049		KEBILI/HAUN/DJEDEIDA	N3430 E01408	1057
62130		KAIRO	N3640 E01709	69
		GJAS	N3607 E01606	66
62044		METLAOUI	N3423 E01147	24
62152		METLAOUI-SAFF	N3544 E01152	34
62100		MONASTIR	N3645 E01702	912
62155		MAHDIA/AUT	N3527 E01600	966
62262		MALLOULECH	N3604 E01927	1219
62098		NABEUL/BRA	N3630 E02609	29
		NAFTA/BRA	N3624 E01313	232
62096		NEFTA/HOUARIB	N3453 E01609	128
62067		[illegible]	N3546 E01611	329
		SALIHIENS	N3643 E02016	1549



FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1-

DMS NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV GROUND FT
02005		ALBAN	N3401	W08218	20
02021		ALBUQUERQUE	N3502	W10633	1972
02040		ALLIANCE	N4202	W10321	194
02078		ALLSTAR	N4644	W08016	1349
02102		ALPENA			
02301		ANCHORAGE	N6103	W14959	35
02402		ATHENS	N3457	W08174	1266
		LITTLE ROAD ENE	N3641	W08142	265
		LIVINGSTON	N3620	W08151	195
02163		LIVINGSTON	N3605	W08131	141
02005		LULEA/KALLAX	N6533	E02208	37
02013		MALMOE/BULLTOFTA	N5539	E01247	1280
02107		MALMO	N5534	E01332	366
02047		MALMO/SULLTOFTA	N5536	E01306	60
		MIDLAND	N3641	W08149	63
		NORDLO	N6033	E01606	260
02117		NORRKOPING	N5834	E01626	30
02001		NORRKOPING	N5835	E01619	15
		NYKOPING	N5809	E01725	307
02140		NYKOPING	N5857	E01654	129
02076		ORSKOG	N5915	E01913	127
02042		ALTERSUNDA/FOUSEN	N6312	E01429	1261
02221		OSTERSUND	N6310	E01227	68
02014		OXJALA	N6712	E02323	961
02071		OXNEHAMN/DONNARYD	N5826	E01530	912
02100		OXNEHOV	N5615	E01916	161
02067		SADRA	N5811	E01707	1363
02079		SATENAS	N5829	E01747	171
02268		SATTLEBYTEA	N6436	E02104	151
02069		SODERHAMN	N6116	E01704	184
02096		STOCKSUND	N6535	E01340	119
02077		STORVALLA	N6304	E01710	1069
02139		STOCKHOLM-ARLANDA	N5931	E01737	33
02113		STOCKHOLM-ARLANDA	N5930	E01755	122
		STORLIEN	N6318	E01204	2562
		STRANGNAS	N5918	E01706	80
		SUNDSVALL	N6308	E01732	65
02064		SUNDSVALL	N6324	E01721	117
02067		SVEG	N6202	E01622	1168
		TANNFORS	N6424	E01546	174
02157		TULLINGE	N5918	E01734	167
02119		TYRFA	C0342	E02517	32
02076		UPPSALA	N5953	E01736	69
02044		UPPSALIPPAN	N5955	E01742	38
		VANERSBORG	N5822	E01229	177
02096		VASTERAS	N5937	E01535	72
		VARBY	N6415	E01729	343
02072		VARTOFTA-MASSLB	N5938	E01827	18
02164		VARTOFTA-MASSLB	N5941	E01837	540
02098		VISBY	N5739	E01821	184
		WESTERSKARD			
00772		WHO	N4600	E00439	912
		WILTHEY	N4633	E00630	1194
00962		WASSELHEIM/PAGH	N4733	E00758	1261
00430		WORK	N4457	E00726	1070
00700		WORCESTER/SHREWSBURY	N4433	E00933	1019
00000		WORCESTER	N4431	E00932	1244
00700		WORK	N4432	E00937	2495
		WORCS	N4703	E00818	1750
00705		WORCS	N4612	E00609	1329
00700		WORCS/COINTAIN	N4614	E00604	1411
00740		WOTUN	N4639	E00657	2403
00730		WORCESTER/SHREWSBURY	N4632	E00758	21730
00012		LA CHAUX DE FONDS	N4706	E00636	3234
00710		CAMBRIDGE	N4631	E00654	1014
00702		CAMBRIDGE/HARDING	N4618	E00623	858
		CAMBRIDGE	N4617	E00639	950
00770		CAMBRIDGE	N4606	E00657	969
00000		CAMBRIDGE/LOWER	N4703	E00618	1432
00619		NEUCHATEL/PAYERNE-ST. CROIX	N4649	E00657	1505
		PARIS	N4618	E00749	2110
0		PARIS ORLY	N4703	E02520	3861
0		PARIS ST COTTARDS	N4633	E00634	0879
00702		PARIS/ST MONITZ	N4631	E00907	5611
		SAN VITTORE	N4616	E00908	900
00660		SAVIES	N4733	E00928	8200
00720		SION	N4618	E00721	1861
0		TETENT	N4601	E00706	UNK
		THUNDER	N4618	E00742	2570
0		TORNIO	N6601	E00744	5401
00660		TORNIO	N6723	E00833	1017
00679		TORNIO/PLOTTER	N6729	E00682	1414
		TURKEY -PURPOSE AND AREA-			
17290	93907	ADANA	N3699	E03510	217
17150		ADIYEN	N3645	E03832	3327
17196		AMERICAN WEE	N3514	E02740	900
17120		ANKARA-ESENBOGA	N4007	E03259	3122
17127		ANKARA-MURTED	N4000	E03339	2751
17129	93906	ANKARA/ESTIMESGUT	N3957	E03241	2969
17200		ANTALYA	N3645	E03250	161
17190		BALIKESIR	N3948	E02732	321
17115		BANDIRMA	N4042	E02727	261
		BATMAN	N3750	E04105	1769

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 2

WMO NUMBER	NAVY NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	TOTALS	3	6	9	12	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81	84	87	90	93	96	99
17290		ABAKAN	N5370	E09174	19																																	
17213		ZAMARKELE	N5400	E08324	10																																	
17062		KONSTANTINOVKA/151294UC/80276	N4809	E03903	131																																	
17219		KUMARSALI	N5317	E08209	300																																	
17269		PETROPAVLOVSK	N5355	E06912	2221																																	
17090		PERMS	N5708	E05624	157																																	
17085		PERMAC	N5828	E05605	2900																																	
17269		PERSLET	N5846	E05929	85																																	
17042		PETINGA	N5944	E06830	3929																																	
17066		PETUKHOV	N5913	E06116	6221																																	
17124		PECHISHMA	N5946	E05832	2979																																	
17067		PECHORA/BUNKUPINAR	N6063	E05949	62																																	
17042		PERA	N6123	E04123	92																																	
17130		PERM	N5956	E05602	2819																																	
0	33366	PINCHUGA AB/ABAKA	N5790	E09329	249		14																															
17270		PECHORSK/ISAKOVSKOYE	N6535	E05910	10																																	
17265		PIPARTA	N5745	E05835	3422																																	
17210		PINEGA/CHELA AB	N6355	E04701	20		17																															
17268		PARS	N6036	E04359	8761																																	
17076		PASTAVMAU	N6122	E03546	8021																																	
17260		KIRANMA	N5908	E07210	3232																																	
17269		KOMSA	N5752	E07230	3139																																	
17256		KALATIA/ZAMA/	N5821	E05819	3274																																	
17062		KOSZIPEN	N6033	E05919	1046																																	
17292		KUSLE	N5732	E07221	2119																																	
17090		KAMSUN	N6117	E05626	7446																																	
17210		KIIBT	N5736	E04700	2956																																	
17029		KILE	N6110	E05906	2																																	
17330		KILIPAV	N5472	E05256																																	
17036		KIMRP	N6202	E05419																																	
17090		KIVAY	N5945	E05701	4219																																	
17046		KOSHABAS	N4659	E06729	185																																	
17048		KRASTOK	N4908	E05943	121																																	
17279		KUFA	N5706	E04846	3795																																	
17109		KUSA	N5948	E05929	3022																																	
17170		VAD	N5935	E04923	3438																																	
17260		VESELSKY/STANOVC	N4958	E04249	139																																	
17222		ZERNOVAYA	N6127	E03548	444																																	
		UNITED KINGDOM																																				
01001		ABERDEEN	N5719	W00212	224																																	
03013		ABINGDON	N5141	W00118	268																																	
03264		ACKLINGTON	N5518	W00130	207																																	
03962	15831	ALCONBURY RAF	N5223	W00018	161		19																															
03917		ALNEWICKMOOR	N5430	W00413	269																																	
03797		ALDERGROVE	N5437	W00629	268																																	
		ARDROSSAN	N5534	W00451	187																																	
		AYTON NOOR	N5413	W00201	610																																	
03822		BARNTON	N5533	W00233	171																																	
03968		BALLYKELLY	N5503	W00726	13																																	
03972		BARNETTS HEATH	N5237	W00039	370																																	
03967		BASSINGBOURN	N5205	W00049	81																																	
03966		BEDFORD	N5213	W00129	293																																	
03815		BELFAST/ALDERGROVE	N5436	W00632	74																																	
03698		BENSON	N5137	W00109	129																																	
03506	35040	BENTWATERS	N5207	E00126	69		17																															
03354		BICESTER	N5154	W00101	274																																	
03368		BINBROOK	N5326	W00012	333																																	
		BIRCH HEATON	N5251	E00039	267																																	
03331		BIRMINGHAM	N5229	W00134	333																																	
03967		BITTESWELL	N5227	W00110	439																																	
03318		BLACKPOOL	N5346	W00322	36																																	
		BLYTON	N5318	W00042	72																																	
03746		BOSCOMBE DOWN	N5110	W00143	414		9																															
03962		BOURNEMOUTH-HURN	N5047	W00150	34																																	
03969	15928	BOVINGDON	N5144	W00437	316																																	
		BRADWELL BAY	N5144	E00015	100																																	
03383	35034	BRAMPTON/LAMEMARSH	N5225	E00033	93		19																															
03963		BRIGHT	N5139	W00107	361																																	
03726		BRISTOL LULSGATE	N5127	W00242	611																																	
03398	15969	BROMLARGS	N5121	W00028	79																																	
03216	15827	BURTONWOOD/BARROWMORE	N5325	W00239	65																																	
03963		CALSHOT	N5049	W00119	8																																	
03953		CAMBRIDGE	N5213	E00019	26																																	
03718		CARDIFF	N5124	W00321	220																																	
		CATTERICK	N5422	W00136	119																																	
03996	15918	CHELVESTON	N5218	W00032	136																																	
		CHESTER/SEALAND	N5313	W00259	369																																	
03707		CHIVENOR	N5105	W00407	27																																	
		CHRISTCHURCH	N5044	W00144	99																																	
03385		CHURCH FENTON	N5348	W00111	27																																	
03734		COLERNE	N5126	W00217	595																																	
03499		COLTISHALL	N5249	E01121	61		9																															
03961		CONINGSBY	N5305	W00010	23																																	
		CRANFIELD	N5206	W00118	271																																	
03443		CRETINGHAM	N5214	W00409	460																																	
03961		CROWNTRY	N5322	W00126	278																																	
03957		CRANFIELD	N5204	W00037	56																																	
03379		CRAWWELL	N5302	W00036	285																																	
03396		CRANLEY	N5159	E00013	771																																	
03977		CRETHORN	N5121	W00007	217																																	
03969		CULDROSE	N5002	W00518	768																																	
03958		ALCONBURY	N5258	W00214	1179																																	

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	RUN MILES
03302		ALAMOGORDO	N3254	W10529	119
03806		ALBUQUERQUE	N3503	W10637	5
		CLOVIS	N3424	W10320	20
		FARMINGTON	N3644	W10800	170
		GALLUP	N3532	W10844	239
03334		HOBBS	N3242	W10312	63
03130		ROSWELL	N3323	W10432	139
03162		SANTA FE	N3539	W10613	796
03830		SILVER CITY	N3241	W10849	99
03444	13956	TRUTH OR CONSEQUENCES	N3316	W10716	207
03487	23056	ALBUQUERQUE/SCULLY	N3523	W10644	243
		ALBUQUERQUE	N3504	W10637	200
03706		ALBUQUERQUE SOUTH	N3511	W10649	226
03697		BELLSTONE	N3532	W10512	18
13701		BELTWELL	N3529	W10631	44
03340		BINGHAMLEY	N3529	W10610	59
03340		BAYDEN	N3521	W10611	430
03633		BLOOMFIELD-CHELTENHAM	N3534	W10710	88
03697		BOWLESTON	N3535	W10644	5
		BRADLEY	N3523	W10601	180
03694		CLOVIS	N3424	W10736	240
		CALIFORNIA GREEN	N3521	W10710	270
		CARLSBAD	N3320	W10433	470
03703		CARTLAND POINT	N3101	W10432	289
		CATFIELD	N3546	W10615	291
03496		CHAMBERS	N3510	W10739	33
03370		CHENEY	N3526	W10616	43
		CHENWELL	N3532	W10636	207
		CHILDS	N3501	W10617	170
03479	23055	COLBATH GUNNERY RANGE	N3523	W10611	40
		COLAX	N3548	W10642	17
03306		CORNATION	N3721	W10607	179
03673		CORRAL/MEEK/MENDON	N3536	W10616	264
		CRICKWELL	N3508	W10618	918
		CULLERTON	N3531	W10706	343
		DACHELITH	N3602	W10738	190
03699		DAYENPORT	N3718	W10648	31
03895		DERBY	N3612	W10611	270
23698		DEMING	N3516	W10703	435
03698		DENLOW	N3539	W10636	15
03017		DIXONWELL	N3657	W10736	69
		DRAPFIELD	N3531	W10613	612
03703		DECOMPFIELD	N3532	W10629	29
43067		DEP TH SOLENT	N3546	W10617	62
03346		DEPEW-HOBSPORD	N3532	W10.39	670
03707		DERRING	N3617	W10613	131
03965		DERRICK	N3608	W10611	272
03171	13902	DEVONAIRE	N3623	W10733	36
03342		DINWOODIE	N3533	W10638	19
03356		DIXTON ON DUKE	N3602	W10615	51
03646		LITTLE RESSINGTON	N3531	W10616	732
03323		LIVERPOOL	N3521	W10733	30
		LLANRIME	N3534	W10637	28
03732		LONDON	N3529	W10627	82
03776		LONDON/CATWICK	N3539	W10611	196
03648		LOSSIE-SOUTH	N3543	W10731	39
03672		LUTEN	N3543	W10621	527
03847		LYDE	N3457	W10636	3
03705		LYNDHE	N3305	W10810	341
03760		LYNEHAM	N3535	W10615	913
03111		MACHINEMEN	N3536	W10614	69
03305		MARBY	N3521	W10608	63
03334		MANCHESTER	N3521	W10716	230
03767	23067	MANSTON/RAMSGATE	N3521	W10721	145
03463		MARMAR	N3529	W10635	80
03769		MARKET HARBOROUGH	N3530	W10637	119
		MIDDLE BILLOP	N3509	W10634	267
		MIDDLETON-AT STONES	N3531	W10718	120
03527	23048	MIDDLEWALL AAF	N3532	W10619	68
03548	13010	MILLSWORTH	N3529	W10623	244
03745	13940	MOMA	N3513	W10622	197
03263		MAIDA	N3536	W10652	31
		NEWBURY/GREENHAM COMMON AAF	N3524	W10711	426
		NEWCASTLE	N3532	W10742	772
		NORTH CROSS	N3539	W10604	18
03672		NORTHOLT	N3533	W10633	13
		NUTTS CORNER	N3436	W10609	334
03571		NUNNINGTON	N3515	W10604	64
03741		NYMAN	N3536	W10657	402
		OUSTON	N3551	W10612	465
03649	13936	OXFORD NORTON AAF	N3543	W10713	336
03694		PEMBROKE/FAIRFORD MAIN	N3541	W10711	161
03528		PERSHORE	N3534	W10652	142
03147		PERTH	N3536	W10532	397
03677		PLYMOUTH	N3521	W10606	650
03208		POINT OF AYRE (ISLE OF MAN	N3625	W10622	36
03188		PORT ELLEN	N3536	W10613	58
03696		PORTLAND BILL	N3532	W10627	32
03145	13929	PRESTWICK	N3537	W10636	30
		RADLETT	N3543	W10619	243
03140		RENFREW/ABBOTSINCH	N3552	W10620	19
		ROCHESTER	N3521	W10630	485
03234		ROMALDSWAY	N3604	W10643	53
03627		RYDE OF WYE	N3535	W10529	223
		RUFFORTH	N3557	W10611	69

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	3	6	8	9	17	18	22	42	46	88	88	91	88	91	91	91	91	91	88	88	88	88
03165		SAINT ANNS HEAD	N5155	W00548	20										11												
03670		SAINT EVAL	N5026	W00459	350														3								
		SALISBURY	N5345	W00234	150				1																		
03373		SCAMPTON	N5319	W00333	118				1																		
		SCARBOROUGH	N5417	W00024	144										4												
03697		SCILLY/ST. MARYS IS. OF SCILLY	N4956	W00611	163										10												
03170		SHANWELL	N5428	W00232	17													20									
03416		SHARPLEY CITY	N5247	W00248	248				1																		
03493		SHEERNESS	N5127	E00049	11				1						10												
03214		SILLOTH	N5402	W00325	29													2									
		SOUTH CERNEY	N5141	W00154	168																						
		SOUTH MARSTON	N5133	W00144	350																						
		SOUTHAMPTON	N5057	W00121	65																						
03401		SOUTHEND	N5134	E00041	64				1																		
		SPILSBY	N5310	E00010	38							2	2														
03396		SPURN HEAD	N5334	E00007	29				1						10												
		ST ATHAN	N5124	W00323	163				1																		
03017		ST DAVIDS	N5654	W00459	184				1																		
03083		STAFFORD	N5292	E00214	249				1																		
03380	99999	STANTON/SHEPHERDS GRUFF GAP	N5219	E00051	199							5	5														
03810	13967	STORNOWAY	N5813	W00620	10				1						11				3			9		1			
03502		STRATFORD	N5207	E00039	393				1																		
03397		STROMA	N5838	E00308	43				1																		
03363	13941	STURGATE	N5327	W00041	70							2	2														
03402		SUMBURGH	N5902	W00117	18				1																		
		SWINDON	N5134	W00141	64				1																		
03343		SYERSTON	N5302	W00054	224				1																		
		TANGMERE	N5048	W00042	68				1																		
03410		TERRIHILL	N5252	W00231	268				1																		
03016		THE LIZARD	N4957	W00512	240				1						7												
03871		THORNEY ISLAND	N5049	W00033	10				1																		
	99948	TIREENNAN	N5227	W00109	178							2															
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03344		TOPCLIFFE	N5413	W00127	84				1																		
03162		TYNEMOUTH	N5901	W00123	108				1						10												
03744		UPAVON	N5117	E00144	338				1																		
03433	13937	UPPER HEYFORD	N5154	W00115	421		22		1			12	12	9	9	23			5								
03302		VALLEY/HOLYHEAD	N5315	W00430	28				1						10				5								
03377		WADDINGTON	N5310	W00031	232				1																		
		WARTON	N5344	W00233	37				1																		
03390		WATTISHAM	N5207	E00857	284				1																		
03490		WATTON	N5235	E00501	208				1																		
03190		WEST FREUGH	N5441	W00457	56				1																		
03823	13943	WEST SPEIRSIN	N5722	W00722	33				1															4			
03787	99934	WEST WALLING GAP	N5117	E00024	365																						
03469		WEST WATTON	N5421	E00044	233				1																		
03680	99954	WETHERSFIELD	N5159	E00029	335		17		1			10	10	10	15	14											
03679		WICK	N5827	W00385	118				1						15				4								
		WINCANTON	N5101	W00219	278				1						9												
		WISLEY	N5118	W00227	191				1																		
03462		WITTERING	N5237	W00417	226				1										3	3							
03505	99951	WOODVALE/FORMBY GAP	N5327	E00124	82		19		1			7	7	7	14												
		WOODFORD	N5320	W00209	366				1																		
		WORKSOP	N5318	W00303	37				1																		
		WROUGHTON	N5132	W00149	440				1																		
03366		WYTON GAP	N5221	W00057	138				1																		
03403		YEOVILTON	N5056	W00237	79				1																		
		W.T.C.O. -EUROPE AND ASIA-																									
0		ALPHELMONT ZEPLYN	N0240	E04339	33				0						10												
0		BARROW/WALNEY ISLD	N0704	E03139	448										3												
0		CAPE DA ILH/PONTA DELGADA	N3733	E02737	30										3												
0		CAPE DA TIJITZYKHA	N7128	E00733	153										3												
20046		DRUIDHAVN BISTRICT RANGE	N6937	E03601	68				0						9								0			0	
20963		EINE'ETRICLAND	N7036	E07022	11										3												
25001		EINETANCA	N7119	E10128	8				0						11											0	
0		EQEENANCTE	N7335	E10718	6										3												
20944		LT STN/GISTRICT VATGAIN	N7027	E05948	33				0						10											0	
20744		MALIE KRONBORG	N7237	E03744	33				0						10											0	
20202		MIS CHRISTIANIA	N7703	E10417	62				0						11											0	
20067		MIS COLONJAARVIT	N7603	E09237	15				0						9												
20963		MIS NEWS-HOUSE	N7704	E08737	80				0						9												
0		MIS OSTEN SAARN/POLAR STATION	N7614	E09950	0										3												
20106		MIS TYTTORLOVA/PARASHOPLNTSAIYE	N7634	E09940	0										3												
0		MIS VYVYHOMBY	N7316	E07541	5										3												
20393		MIS ZELANDIA/NYS INGLAVIVA	N7657	E06835	22				0						10					2						0	
20967		MSTROM BOLYY	N7326	E07207	22				0						10											0	
20674		MSTROM BIASON	N7335	E06814	65				0						11											0	
20944		MSTROM BLUFFERS/TAYNYO	N7636	E10139	6				0						10												
20594		MSTROM BLACKIN	N7634	E10635	68										3												
20969		MSTROM BUSHLPA	N0148	E05308	38										3												
20194		MSTROM BYSIDMEVIA	N7356	E08214	38										3												
20963		MSTROM TIRITHBSO/VIIKIT1100	N7332	E07649	38																						
20969		MSTROM VIIO	N7932	E07639	38				0																	0	
20470		POLAR STATION/PTS STRACTOOVES	N7324	E08040	68				0						10												
20397		PUTNAMYA GAVAN/MOVAIG IEMLYA	N7614	E06734	38				0						10												
0		TARASSIT YAM	N7352	E08610	0										3												
20960		VATASHCH/TRYTSACH/OSTEN VATGAIN	N7624	E09940	28										3												
20992		VE.GCHAMNA	N7757	E09434	34				0						10												
21420		WAMTA PORRCH/SHCHEVEY	N7544	E11311	0										3												
21024		WAMTA TIGSI	N7135	E12059	28				0						11					2						0	
0		WAMLKALEN	N7258	E11932	0										3												
21946		ZHMIRSKAYA	N7617	E14753	157				0						10											0	
21991		ZATACHYE	N7649	E10619	72				0						9												

FOR EXPLANATION AND ILLUSTRATION OF SUBHEADING SEE PAGE 1

BASIC NUMBER	MAIN NUMBER	STATION	LOCATION		SHIP TO POINT	2	6	8	9	17	18	22	42	45	50	60	61	80	01	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
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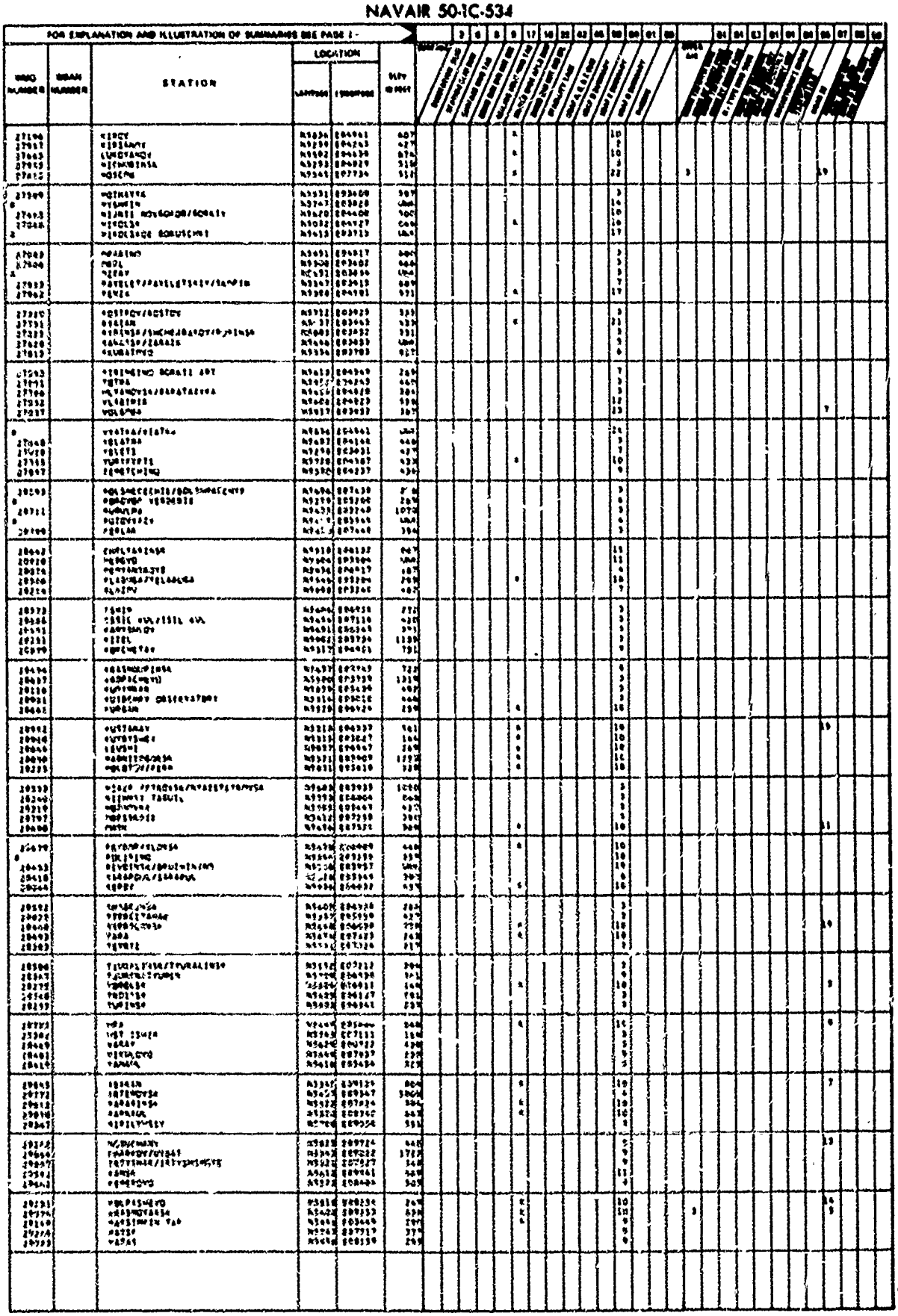
FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 2 -
WBAN NUMBER
STATION
LOCATION
ELEV (GROUND)

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBID NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (G) PORT	3	5	8	9	17	25	32	36	50	60	61	00	01	01	02	01	01	04	05	07	08	00
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20990		[illegible]	[illegible]	[illegible]	[illegible]				[illegible]					10													
20313		[illegible]	[illegible]	[illegible]	[illegible]				[illegible]					10													
20410		[illegible]	[illegible]	[illegible]	[illegible]									9													
20913		[illegible]	[illegible]	[illegible]	[illegible]									9													
20944		[illegible]	[illegible]	[illegible]	[illegible]									9													
20967		[illegible]	[illegible]	[illegible]	[illegible]				[illegible]					10													
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20263		[illegible]	[illegible]	[illegible]	[illegible]									11													
20999		[illegible]	[illegible]	[illegible]	[illegible]									5													
20963		[illegible]	[illegible]	[illegible]	[illegible]									11										8			
20329		[illegible]	[illegible]	[illegible]	[illegible]				[illegible]					11													
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21893		[illegible]	[illegible]	[illegible]	[illegible]									3													
21959		[illegible]	[illegible]	[illegible]	[illegible]				[illegible]					9										6			

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1-

WPO NUMBER	WBAN NUMBER	STATION	LOCATION		NAVY ID PORT	3	6	8	9	17	18	22	42	46	50	51	60	01	01	02	03	04	05	07	08	09
			LATITUDE	LONGITUDE		Sunshine, Clear	Sunshine, Partly Cloudy	Cloudy, Less Than 1/10	Cloudy, 1/10 Through 3/10	Cloudy, 4/10 Through 6/10	Cloudy, 7/10 Through 9/10	Cloudy, 10/10	Fog, Ice Fog or Freezing Fog	Thunder	Ice Pellets	Hail	Glaze	Snow, Ice Pellets	Rain and/or Drizzle	Snow and/or Ice Pellets	Rain and/or Drizzle and Fog	Snow and/or Ice Pellets and Fog	Thunder	Ice Pellets	Hail	Glaze	Snow, Ice Pellets
31990		TATTNAM	N4422	E11331	23										3											
31994		TIVIGAU/TIVIA AAF	N4426	E11308	1135										11											
31995		TABITSHOTE	N4427	E11434	9				A						11											
31998		TUPIY 006	N4431	E11439	76				A						11											
31994		VST-TUPOMA	N4411	E11399	69				A						10											
31999		VERAMAYAYA	N5121	E13423	853				A						6											
31996		VLAZIYSTOK	N4297	E13134	453				A						10				3				34			
31993		VORONEZHSKAYA/USILOVSKAYA	N4198	E13158	87										3											
31998		YAKOVLEVKA	N4423	E13429	488										3											
31997		YEKATERINO NIKOLSKOYE	N4744	E13438	243				A						11								8			
31993		YELANKA	N4459	E13453	135										3											
31976		YEVGENYEVKA/SPASSK	N4478	E13249	315										3											
31977		YAVITAYA	N5007	E13928	706										6											
31998		ZEYA PIERA	N5203	E12716	761				A						11											
32017		ZOO-YYNOYO	N5106	E14749	218				A						10											
32061		ALEXANDROVSK	N5454	E14218	(2m)										17				7				9			
32063		ANADYR/ESSG	N6459	E17633	1499				A						10								9			
32196		ATTLAN/SUMNAL IN/TOYSHAGE	N4455	E14744	132										4								9			
32133		BOLINSK	N4720	E14548	138				A						11											
32046		BUSTROM/VOLCCOMSK	N4903	E14244	174										7											
32011		ICHA	N5304	E13526	17				A						10											
32121		ILIANSKIY	N4759	E14218	83				A						10											
0		KETOY	N4948	E14748	(2m)										3											
32118		KHOLOSI	N4703	E14203	87										4											
32324		KIRANSK/KIRENSKIY	N5578	E15401	28										3											
32071		KIROVSKOYE	N4944	E14745	418										4											
32369		KLYUCHI	N5619	E15659	63				A						10								9			
32375		KOTTOVSK	N5403	E13531	(2m)										3											
32287		KUTOL/KATSUNA	N4484	E13513	277				A						10											
32519		NYS ADMINISTRATION/STORBIN BAY	N7443	E15798	269				A						6											
32213		NYS LOPATKA	N5057	E15641	138										2											
32332		NYS MIRNOYE	N5734	E16539	39				A						10											
32317		NYS VAYLUTOVA	N5420	E15923	92				A						10								11			
32012		NYS VOLLIZAVETY/ELIZAVETY	N5429	E15243	252				A						10											
32149		NOVOLSK	N4458	E14157	23										9											
32510		NIKOLAIEVSK/OSTROV SEDLOVA	N5513	E14959	24				A						10								8			
32043		VOSHCHOD	N7156	E14958	23				A						11											
32077		PEVEK	N6906	E14239	183										6											
32038		PETROPAVLOVSK/KAMCHATSKIY	N5112	E15839	28										10											
32011		PETROVSK SABAOIKALSKIY	N5208	E14855	25				A						10											
32100		PETROVY TROOP	N4611	E13630	236				A						10											
32306		PEVCHOYE	N5134	E13619	28				A						4											
32223		PALANA	N5904	E13959	65				A						7											
32248		PETROPAVLOVSK	N5218	E13945	23				A						11								9			
32069		PILYU	N5702	E14910	163				A						10											
32298		POKHACHI	N4613	E14306	18				A						10											
32299		POKLIAKINA/ALI/SIOLYAKINA	N5408	E13957	85										10											
32150		SIMUSHIR/SIMUSIR	N4451	E15132	85										11								9			
32174		SAYSTANNYY	N4447	E14712	11										2											
32240		SYUSLT	N5951	E16047	1404										3											
32268		SELEZNOVSK	N4503	E14304	174										11											
32420		SVT KAMCHATSK/SVT KAMCHATSK	N5613	E16020	23										4											
32093		SVT MILKAYA	N4912	E14339	98										3											
32252		SVT YUZHNOPOLOS	N5603	E13918	23										3											
32364		SVT-POLSHEMETSK	N5744	E13619	23				A						9								6			
32110		VOSTOCHNYY BAKLANOTE MYSOK	N4917	E14239	25										5											
32348		VELIKOYE	N5331	E13926	(2m)										2											
32143		VYSOKOGORSKIY	N4403	E14349	172				A						9								33			
32165		ZELTSY	N4744	E02755	(2m)										3											
33062		ROKOSOV	N4504	E02036	284				A						10											
33008		ABBOT	N5208	E02941	472				A						10			3					10			
33048		ABERYSTWYTH/CWMYSTWYTH	N5241	E04129	76										13								37	37		
33138		ABERYSTWYTH	N5125	E03117	46										3											
33961		ALLANGRANGE	N5434	E04427	91										3											
0		ABERYSTWYTH	N5125	E03117	46										3											
33978		ABERYSTWYTH/PENGLAIS	N5240	E04123	85										10											
33649		ABERTAIL	N5452	E04350	95										7											
33948		ABERYSTWYTH PENGLAIS/ABERYSTWYTH	N5240	E04133	76										9											
33930		ABOYNE	N5705	E04239	13										3											
33998		ABERDEEN	N5709	E02137	162										6											
33429		ABERDEENSHIRE	N5724	E02135	64				A						10											
33343		ABERFELDY	N5634	E03627	181				A						10								9			
33711		ABERGAVENNY	N5147	E03119	106				A						10											
33415		ABERTEIFI/CARDIGAN	N5233	E04203	113										3								10	10		
33241		ABBOTSBURY	N5134	E03117	48										3											
33701		LLANDRINDOD WELLS/LLANDRINDRYD	N5215	E03315	193										3											
33917		LLANDUDNO	N5320	E03549	312										13											
33187		LLOYDS	N5228	E03128	64										3											
33905		LYDD/LYMPNE	N5046	E03257	1004				A						10								39	39		
33466		MIDDLEWICH	N5312	E00228	44										3											
33846		MIDDLEMARCH/MIDDLEMARSH	N5456	E03202	64										10											
33933		MILFORD	N5733	E03414	194										3											
33837		MONEY'S POINT	N5229	E03738	210				A						13								38	38		
33213		MYDDFAI	N5159	E03947	561										7											
33819		MIMSY	N5257	E02644	72										11											
33990		NAILSEA	N5127	E02529	529										3											
33934		NAIRN/LOSSIE	N5735	E03853	185										3											
33940		NANNY	N5122	E03637	962				A						10											
33996		NEWTONMORE	N5703	E04133	280										6											
33917		NEWPORT/NYE	N5619	E02703	934										7											
33666		NEWPORT/ISABRUF	N5433	E03939	645				A						10								6			
0		NEWTOWN/LLANIDLOES	N5230	E03232	958										6											
33934		NEWBIGGIN	N5404	E02142	904										3											
33275		NEWRY	N5417	E03447	372										3											
33415		NEWPORT	N5042	E02536	1063										3											

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GPH)
0		TOTAIKPI	044414	0936113	916
33583		UMAN	044844	0933314	705
33631		VIZHNOR	044834	0932210	383
33638		VASILEVITCHI	045144	0932948	443
33662		VINNITSA AMBROMETRA	045144	0932824	942
33772		VOZNESENSK	044734	0931220	105
33900		YALTA	044438	0934418	44
33927		ZHITKOVICHI	052124	0927334	633
33935		ZHITOMIR	050144	0920830	745
33826		ARMTAAI/PRIMORSKO ARMTARSKAYA	044824	0934004	14
0		ARMTYANA	044814	0944604	36
34001		ALEKSANDROV GAY	045044	0944834	83
34008		ASTRAKHAN	044614	0944024	84
34152		BALASHOV	051134	0944524	984
34336		BORISOGLEBSK	045144	0944434	223
34340		CHAPLINO	044824	0934414	371
34354		DNEPROPETROVSK	044824	0935024	666
34470		ELTON	044924	0944214	34
34619		IZYUM	044814	0937	233
34668		JASHKUL/YASHKUL/PERESHAKHIB	044814	094	-22
34339		KAMENSK	044824	0944914	184
34371		KAPUSTIN YAR	044834	0944144	34
34388		KHARKOV	044944	0934214	684
34435		KOTELNICHSKO/KOTELNICHSKOYE	044734	0943304	164
34519		KRASNOGRAD	045024	0934504	104
34609		KUMSA	045134	0933214	764
34712		KUSTANAY/IMENNOY	045044	0933734	334
34736		MELITOPOL	044644	0935224	124
34749		MERKULOVKA	044814	0944134	264
0		PERSIANOVKA	044734	0944504	14
34994		PETROVSKOYE	044814	0944154	444
34998		RAKHATNYY	045004	0944644	264
34711		SEVERO NA SOKH	044714	0934644	254
34732		SARATOV	045134	0944424	114
34737		SEVASTOPOL/M	044544	0944144	424
34419		SLAVYANSK/BARABSHY LIMAN	044814	0934734	UNK
34517		STALINO/DONETSK	044844	0937444	814
34126		STARYY OSKOL	045134	0937334	674
34949		STAVROPOL/YUNOSHILOVKA	044944	0944134	1064
34747		TSELINA	044744	0944104	34
34264		UKHOVINKA	045044	0943204	324
34311		VALUYKI	045114	0941504	364
34379		VERKHNIY BASKUNCHAK	044814	0944444	114
34948		VOLGOGRAD/STALINGRAD/VOLGOGRADB	044444	0944224	674
34332		VORONEZH	045144	0939154	934
34313		VOROSHILOVGRAD	044844	0939104	634
34401		ZAPOROZHYE	044744	0935134	284
34447		ZHELEZNOVODSK/MINERALNYYE	044144	0944124	364
34131		ABAKUMOVKA	045134	0939454	914
33180		ARKOLIVSK/STAKLINOVSKA	048104	0971224	1164
33239		ART/KUIBYSHEV/ARTYUSHKOVSK	049014	0937094	744
33361		ASHCHEBUTAK	049444	0945124	444
33744		ASHCHISAN KORE/ASALASK	044434	0944144	194
33870		ATBASAR	051144	0940224	1014
33796		BALKHAS/BUKHASKAN/BALKHASH	044434	0973044	1344
33933		BEREKEMEUK	044274	0958054	1224
33804		BET-PAK-DALA	044484	0973214	344
33998		BOKOTU BAYTAL	044044	0974424	1144
33833		CHULYAK	044734	0934374	374
33121		CHUYASHY/BOLSHOYE	051444	0939444	214
33217		DZHAMBEYTY	045134	0953234	114
33049		DZHETYGARA	045134	0944114	444
33491		DZHUSALY/AKSAY	044744	0944744	1134
33933		DZHUSALY	044734	0944454	334
33437		EMBA	044944	0953914	334
33798		KHOBDA/SHAKPAT	044744	0942134	64
0		KHUUR AUTO/KHUUR GATO	044144	0944434	UNK
33842		TOBOL	044834	0944114	974
33436		KALKAMAN	044934	0953134	134
33776		KARA-KIN-KOLAK	044644	0944444	344
33344		KARAGANDA	044944	0973944	1024
33863		KARAGANDY	044734	0944444	1004
33849		KAZALINSK	044544	0943144	224
33715		KOKCHETAV	044444	0953344	344
33339		KOSTANAY	045114	0943744	184
33731		KOKPETY	044714	0947324	1944
33935		LAK	045134	0944114	264
0		LAKSINSI	044444	0973134	UNK
33428		TUMIN KUNGR	044444	0944744	774
33356		TURGAY	044434	0944134	344
33198		URALSK	049114	0951134	114
33947		YESSIL/YESIL	045134	0944424	774
33949		ZLINA	044114	0944744	484
34872		ALMA ATA	043144	0974344	2774
34872		ATBASHI/SEMIRECHYE	041744	0944224	2164
34044		ARYSHKINA	045134	0944534	894
34418		KOLOMNE MAKHYSARIYE/ROSCHINSY	044914	0944424	1334
34714		KUMYSTU TYUBE/KUMULU TUBE	044434	0937944	1134
34047		KUSKAN	051144	0951134	3444
34199		KAMARALINSK	044934	0973234	2464
34314		KAYRAK	044514	0937234	2944
34134		KAZAKHSTAN/STANTSIYA-SPI	045134	0944534	2404
34318		KOKCHETAV	044444	0944224	1674
34198		VERKH ARAKH	045024	0944444	5744
34094		UYTYL	044144	0944424	UNK

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WBAN NUMBER	STATION	LOCATION		ELEV. GR. ABOVE MSL
		LATITUDE	LONGITUDE	
34974	[illegible]	N6126	E07600	6725
34251	[illegible]	N5043	E04600	3000
34699	[illegible]	N4610	E08004	2100
34003	[illegible]	N5117	E07637	475
34034	[illegible]	N5130	E08113	765
34177	[illegible]	N5021	E08015	670
34741	[illegible]	N4537	E07716	1190
34061	[illegible]	N5216	E08712	1092
34719	[illegible]	N4618	E08056	1273
34463	[illegible]	N4732	E08655	1918
37639	[illegible]	N4107	E04925	1104
37031	[illegible]	N4439	E04107	623
37909	[illegible]	N3827	E04433	[illegible]
37260	[illegible]	N4152	E04105	63
	[illegible]	N4021	E04950	33
37406	[illegible]	N4135	E04138	20
37515	[illegible]	N4252	E04323	7603
	[illegible]	N4108	E04423	[illegible]
37228	[illegible]	N4303	E04439	3198
37789	[illegible]	N4008	E04428	2978
37331	[illegible]	N4139	E04457	1963
37239	[illegible]	N4321	E04541	403
	[illegible]	N4228	E04620	7225
37937	[illegible]	N3936	E04748	1411
37758	[illegible]	N4044	E04425	944
37395	[illegible]	N4216	E04230	301
37606	[illegible]	N4047	E04356	5316
37943	[illegible]	N3844	E04656	-30
37972	[illegible]	N4301	E04730	-46
37953	[illegible]	N4142	E04429	184
37054	[illegible]	N4413	E04306	1038
37165	[illegible]	N4344	E04446	433
37936	[illegible]	N4012	E04429	2871
37212	[illegible]	N4356	E04257	1441
37836	[illegible]	N4426	E04138	1903
37090	[illegible]	N4402	E04502	1806
37008	[illegible]	N4444	E03749	121
37961	[illegible]	N4448	E04418	387
37999	[illegible]	N4339	E03949	184
37104	[illegible]	N4154	E04059	74
37949	[illegible]	N4101	E04457	1845
37918	[illegible]	N4404	E03904	288
37749	[illegible]	N4008	E04428	2978
37973	[illegible]	N4138	E04439	1698
30179	[illegible]	N4359	E04426	764
30232	[illegible]	N4256	E03407	244
30618	[illegible]	N4047	E07729	1853
30060	[illegible]	N3958	E03926	758
30035	[illegible]	N3748	E04201	708
30603	[illegible]	N3944	E04457	728
30607	[illegible]	N3959	E04336	833
30069	[illegible]	N4618	E04649	405
30263	[illegible]	N4257	E03949	217
30320	[illegible]	N4218	E04436	1811
30049	[illegible]	N4454	E03754	208
30963	[illegible]	N4218	E04217	329
30613	[illegible]	N4458	E07257	2556
30961	[illegible]	N4351	E07129	2164
30379	[illegible]	N4057	E04730	1206
30308	[illegible]	N4154	E03744	224
30610	[illegible]	N4618	E07143	1903
30001	[illegible]	N4458	E03913	68
30313	[illegible]	[illegible]	E07429	2153
30790	[illegible]	N3728	E03958	75
30615	[illegible]	N3837	E04414	1714
30609	[illegible]	N4057	E07438	2753
30911	[illegible]	N3758	E04212	764
30944	[illegible]	N3736	E07134	6824
30763	[illegible]	N3859	E03417	318
30907	[illegible]	N4624	E03759	75
30149	[illegible]	N4305	E03434	218
30967	[illegible]	N3917	E03727	2065
30961	[illegible]	N4451	E04140	426
30199	[illegible]	N4613	E04444	1338
30163	[illegible]	N4154	E03944	[illegible]
30911	[illegible]	N4654	E07.33	1723
30953	[illegible]	N4453	E04941	1644
30975	[illegible]	N4518	[illegible]37422	12403
30940	[illegible]	[illegible]	E04457	2215
30974	[illegible]	N4412	E04113	913
30836	[illegible]	N4853	E04647	2704
30940	[illegible]	N3750	E04222	859
30262	[illegible]	N4152	E07215	4845
30301	[illegible]	N4136	E03459	208
30497	[illegible]	N4118	E04416	1468
30006	[illegible]	P3722	E04031	613
30917	[illegible]	N3514	E04716	924
30190	[illegible]	N3810	E04812	6[illegible]
30396	[illegible]	N4134	E04024	373
30644	[illegible]	N4418	E04109	153
	[illegible] COASTAL MARINE AREAS			
	AREA 1 [illegible]	N7230	W17035	30
	AREA 2 [illegible]	N6859	W17403	30
	AREA 3 [illegible]	N6502	W17602	30

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	3	6	9	12	17	18	22	42	45	50	56	61	68	01	21	23	31	41	54	65	67	68	69
		ARFA 6 SMATYRSA	N6405	E17700				36																				
		ARFA 7 SMATYRSA 9401	N5700	E17300				36																				
		ARFA 8 KARAGINSKIY ISLAND	N5800	E16400				36																				
		ARFA 9 KAMCHATSKIY PENINSULA	N5402	E15300				36																				
		ARFA 8 COMMANDER ISLANDS	N5403	E16000				36																				
		ARFA 9 KURIL STRAIT W	N5105	E15507				36																				
		ARFA 10 KURIL STRAIT E	N5104	E15903				36																				
		ARFA 11 KURIL STRAIT 6666	N5155	E16702				32																				
		ARFA 12 OKHOTSK SEA N	N5500	E14700				36																				
		ARFA 13 SHELIKHOVA BAY	N5406	E13000				36																				
		ARFA 14 OKHOTSK SEA NW	N5505	E14400				32																				
		ARFA 15 OKHOTSK SEA NE	N5505	E15300				32																				
		ARFA 16 WEST COAST KAMCHATKA	N5403	E13704				36																				
		ARFA 17 TATAR STRAIT N	N5101	E14104				36																				
		ARFA 18 TATAR STRAIT S	N4800	E14007				36																				
		ARFA 19 OKHOTSK SEA SW	N5200	E14400				32																				
		ARFA 20 SAKHALIN ISLAND SE	N4809	E14401				36																				
		ARFA 21 OKHOTSK SEA SE	N5309	E13700				32																				
		ARFA 22 ONEKOTAN ISLAND	N4906	E13109				36																				
		ARFA 23 ONEKOTAN ISLAND SE	N4803	E13305				36																				
		ARFA 24 SOYA STRAIT W	N4506	E13904				36																				
		ARFA 25 SOYA STRAIT E	N4508	E14106				36																				
		ARFA 26 WRUP ISLAND	N4405	E13106				36																				
		ARFA 27 YLASIYNTSE	N4106	E13102				36																				
		ARFA 28 SEA OF JAPAN W	N4703	E13407				36																				
		YUGOSLAVIA																										
		ABJORNICINA	N4533	E01534	345				1																			
		GRAD PULJE	N4536	E01633	2486				1																			
13242		GANJA LUKA	N4447	E01713	512				1						28													
		DATAJNICA	N4446	E02017	269				1																			
13274		DELORANE	N4448	E02014	435				1						29													
13270		DERDAP/DERDAP-ZELENO	N4447	E02022	700				1																			
13278		DIMAC	N4449	E01952	743				1						10				3		35		3			9		
13988		DIVCA	N4503	E02122	1049				1						5													
13251		GJELESNICA	N4342	E01815	6788										10													
13190		GRAD/SKAVBAS1-0100	N4309	E01601	319				1						11				9									
		GELJE	N4414	E02114	7041				1																			
		GRMALAP	N4513	E01932	5100				1																			
13992		HRID KAPJE	N4123	E02215	613				1																			
13992		GJURGJEVIC	N4239	E01812	191				1						3													
		KOLNIK	N4420	E01825	1645				1																			
13223		KOSPIC	N4432	E01923	1867				1																			
13985		KRICO/GRADY	N4228	E01831	23				1																			
13988		KVAK	N4510	E01826	44				1						19													
0		JANJINA	N4234	E01719	UNK				1						7													
		JESERSKO	N4426	E01831	2972				1																			
		KOCL-JE	N4330	E01832	1918				1																			
13968		KOLASIN	N4230	E01932	3130				1																			
13107		KOPER	N4533	E01343	97				1																			
13278		KRAGUJEVAC	N4401	E02034	997				1						4													
13270		KRALJEVO/RAMOVICEVO	N4344	E02041	723				1						11													
13963		KRUSEVAC	N4334	E02121	945				1																			
0		KUMBOR	N4228	E01828	10										4						3							
13266		KUPRES/KUPRES	N4400	E01717	3983										9													
13990		CAKOVEC	N4624	E01634	417																2							
		LIPIK	N4529	E01718	369				1																			
13819		LJUBLJANA/BEZIGRAD	N4603	E01434	955				1						21				7									
13262		LOPATICA/VOJVILJICA	N4413	E01814	488				1						8													
13826		MARIBOR	N4632	E01539	999				1										1									
13978		METKOVICA/PACETVA	N4303	E02053	1709				1						3													
13949		MESTAA	N4318	E01749	174				1						18				9									
13951		MARSA SOBOTA	N4639	E01617	628				1																			
13988		NIS	N4320	E02155	845				1						19				4									
13127		NOVA GRAD	N4558	E01511	679				1																			
13169		NOVI SAD/PETROVARADIN	N4315	E01948	268				1						9													
		OMISALJ	N4512	E01433	299				1																			
13157		OSIJEK	N4533	E01834	382				1						11													
13490		PALANGULA	N4321	E01416	269										8													
14067		PAZIN	N4514	E01948	544										4													
13973		PEC	N4240	E02018	1660				1						9													
		PETROVAC	N4523	E01737	799				1																			
13969		PLJEVLJA/PLEVLJA	N4321	E01922	2522				1						9													
		PODGORICA	N4207	E01916	1749				1																			
13988		PRILEP	N4126	E02135	2168				1						5													
13230		PULA	N4453	E01351	169				1						21				4									
13210		RAB	N4446	E01446	1127				1						5													
		RATECE-PLANINA	N4630	E01343	2819				1																			
		REKA BORA	N4533	E01437	2407				1																			
13119		RIJEKA	N4519	E01428	14				1						19													
13996		SARAJEVO-BAZLCVAC	N4352	E01820	3120				1																			
13958		SARAJEVO/BUTMIR	N4350	E01821	1710				1						32				9									
13218		SENJ	N4459	E01454	118				1																			
		SENT JOST NA KRIJAVU	N4423	E01513	3400				2																			
13173		SKOPJE	N4537	E02009	267				1						2													
		SIBAN	N4434	E01752	791				1																			
13998		SMEDEREVO	N4539	E02138	787				1						27				4									
13934		SPLIT/LUZANICA	N4330	E01627	161				1						26											7		
13260		SRBRASKO MITROVICA	N4408	E01938	266				1																			
13991		STIP	N4610	E02210	904				1						2													
13979		STRUGA	N4111	E02042	2284										2													
13969		TITOGRAD	N4228	E01917	170				1						8				9									
13957		TUZLA TRNOVAC	N4432	E01841	765				1						2													
13962		UNIJA	N4519	E01613	328				1						6													
13209		VELIKO GRADISTE	N4442	E02331	264				1						7													

FOR EXPLANATION AND ILLUSTRATION OF SUBHEADINGS SEE PAGE 1-

WORLD NUMBER	REGION NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	DAYS IN PORT
13099		VENICE	N4523	E01236	1581
13103		VESAC	N4507	E02216	345
13228		FARAP/FARA	N4407	E01914	1 A
13229		FARPOB-SHIP	N4544	E01958	539
13230		FARPOB/FARLEIGH	N4549	E01607	404
13231		FARPOB/PLESS	N4544	E01604	361
13302		FAJECAN	N4336	E02216	428
13224		FLUSHIP	N4436	E01929	229
		MEDITERRANEAN MARINE AREAS			
		AREA 1 BOTA	N3604	E00700	
		AREA 2 TANGIER	N3500	E00707	
		AREA 3 MALAGA	N3600	E00304	
		AREA 4 ORAN	N3605	E00603	
		AREA 5 CARTAGENA	N3707	E00603	
		AREA 6 BARCELONA	N4004	E00109	
		AREA 7 MARSEILLE	N4206	E00500	
		AREA 8 N MINORCA	N4008	E00507	
		AREA 9 MALLORCA	N3659	E00400	
		AREA 10 ALGIERS	N3704	E00309	
		AREA 11 CORSICA	N4207	E00430	
		AREA 12 SARDINIA	N4000	E00001	
		AREA 13 BIZERTA	N3709	E00709	
		AREA 14 ADEN	N4102	E01200	
		AREA 15 S TYRRHENIAN SEA	N3901	E01304	
		AREA 16 SW SICILY	N3608	E01207	
		AREA 17 TRIPOLI	N3403	E01203	
		AREA 18 N ADRIATIC SEA	N4300	E01407	
		AREA 19 S ADRIATIC SEA	N4139	E01601	
		AREA 20 W IONIAN SEA	N3700	E01600	
		AREA 21 MALTA	N3553	E01607	
		AREA 22 GULF OF SIDRA	N3207	E01003	
		AREA 23 E IONIAN SEA	N3706	E02704	
		AREA 24 N AEGEAN SEA	N3900	E02400	
		AREA 25 S AEGEAN SEA	N3754	E02501	
		AREA 26 CRETE	N3508	E02609	
		AREA 27 DEMANAZI	N3399	E02309	
		AREA 28 RHODES	N3507	E02707	
		AREA 29 CENTRAL LEVANTINE BASIN	N3400	E02703	
		AREA 30 ALEXANDRIA	N3202	E02700	
		AREA 31 N CYPRUS	N3507	E03403	
		AREA 32 S CYPRUS	N3349	E03109	
		AREA 33 NILE DELTA	N3203	E03106	
		AREA 34 DAMIAT	N3402	E03409	
		AREA 35 PORT SAID	N3232	E03303	
		WESTERN EUROPEAN MARINE AREAS			
		AREA 1 LISBON	N3650	W01000	
		AREA 2 AVEIRO	N4000	W01400	
		AREA 3 PORTO	N4130	W01049	
		AREA 4 LA CORUNA	N4430	W00907	
		AREA 5 GIJON	N4402	W00540	
		AREA 6 BORDEAUX	N4430	W00200	
		AREA 7 NANTES	N4400	W00130	
		AREA 8 PLYMOUTH	N4401	W00409	
		AREA 9 ENGLISH CHANNEL	N5007	W00100	
		AREA 10 DOVER STRAIT	N5100	E00000	
		AREA 11 BRISTOL CHANNEL	N5131	W00400	
		AREA 12 IRISH SEA	N5307	W00440	
		AREA 13 CORK	N5000	W00403	
		AREA 14 SW IRISH COAST	N5202	W01103	
		AREA 15 W IRISH COAST	N5401	W01100	
		AREA 16 SCOTTISH SEA	N5601	W00704	
		AREA 17 OUTER HEBRIDES	N5902	W00400	
		AREA 18 SHETLAND IS NW	N6100	W00409	
		AREA 19 ORKNEY ISLANDS	N5900	W00304	
		AREA 20 EDINBURGH	N5606	W00102	
		AREA 21 NEWCASTLE	N5500	E00059	
		AREA 22 RHINE DELTA	N5106	E00301	
		AREA 23 AMSTERDAM	N5402	E00450	
		AREA 24 ESBJERG	N5529	E00603	
		AREA 25 FRISIAN BANKS	N5532	E00702	
		AREA 26 NORTH SEA	N5609	E00202	
		AREA 27 SHETLAND IS S*	N5800	E00003	
		AREA 28 STAVANGER	N5700	E00907	
		AREA 29 OSLO	N5900	E00304	
		AREA 30 ALESUND	N6232	E00403	
		AREA 31 OSLO	N5931	E00909	
		AREA 32 COPENHAGEN	N5504	E01107	
		AREA 33 BORNHOLM IS	N5503	E01503	
		AREA 34 GULF OF DANZIG	N5421	E01902	
		AREA 35 STOCKHOLM	N5934	E01804	
		AREA 36 GULF OF RIGA	N5753	E02102	
		AREA 37 GULF OF FINLAND	N6000	E02305	
		AREA 38 GULF OF BOTHNIA S	N6100	E01904	
		AREA 39 GULF OF BOTHNIA N	N6300	E02100	
		AREA 40 HUANKSHA	N7430	E01500	
		AREA 41 SVERNES	N7642	E01704	
		AREA 42 CENTRAL NORWEGIAN COAST	N6600	E01000	
		AREA 43 GREY RICE	N6600	E00700	
		AREA 44 ICELAND SE	N6500	W01400	
		AREA 45 REYKJAVIK	N6400	W02401	
		AREA 46 ICELAND NW	N6600	W02901	
		AREA 47 ICELAND N	N6600	W01900	
		AREA 48 ICELAND NE	N6603	W01304	

| FOR EXPLANATION AND ILLUSTRATION OF FORMATS SEE PAGE I- | | |

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE I -

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GP PORT)	3	6	9	17	19	22	42	46	59	60	61	80	OPEN AIR	01	04	03	01	04	05	07	03	00
		ASIA																									
		AFGHANISTAN																									
40924		KABUL AP	N3432	E06913	1817									11													
40931		BAGRAM	N3456	E06958	4700			8						1													
40934		FAIZABAD	N3706	E07034	3936									9													
40974		HERAT	N3221	E06210	2159			8						8													
40968		KHALIS	N3332	E06025	7176			8						10													
40966		KUNDUZ	N3431	E06856	6760									9													
40938		MEHAR	N3411	E06933	3136			8						11													
40934		JALALABAD	N3426	E07029	1811			8						11													
40948		KABUL AIRPORT	N3433	E06912	5916			8						11						4	4			2			
40950		KANDAHAR INTL	N3136	E06531	3335			8						7						3	3						
40959		SHORT	N3350	E06959	3887									6													
40913		KUNDUZ	N3632	E06853	1411			8						10													
40965		LAL	N3629	E06618	9184									6													
40978		LASHKARGAH	N3134	E06435	2950									6													
40939		MAIMANA	N3355	E06457	2788									10													
40911		MAZAR SHARIF	N3642	E06713	2346			8						11													
40937		NORTH SALANG	N3521	E06903	10407									7													
40927		SHEBERGHAN	N3640	E06540	1181									9													
		ARABIAN PENINSULA																									
40507		ABHA/KHAMIS MUSHAIT	N1839	E04232	6924			8			2			9						10	10			12			
40578		AL MUKALLA/RIAN	N1444	E04229	54			8																			
40557		DHAHRAN/AB AB	N2618	E04959	1701			8						7													
40437	41503	DHAHRAN/HUMMADAH	N2616	E05037	6			8						19					7					1	17		
40496		HITHAM	N1659	E04942	3804									6													
40410	41502	KHAMIS	N1817	E04209	71			9		9	10	10	10	16				10									
40492		KHALIS	N1842	E04444	4919									9													
40428		KUNA	N2510	E04333	33			8																			
40448		KUWAIT	N2519	E04520	49			9																			
40394		MAIL	N2758	E04702	8109			8																			
40477		JEDDAH	N2130	E03912	59			8		9				13													
40488		DHAHRAN	N2528	E04237	21			8						9						3	3						
40372		KUWAIT INT APT	N2914	E04759	154			8						9													
40444	41501	RASTANAH	N2643	E05854	38			8			2			19													
40438		RIADIYA	N2639	E05939	2783			8						9													
40517		AHMEDABAD	N2300	E07242	6702									9													
40468		MASCAT	N2336	E05859	28			8						11													
40393		MADRIYA	N2728	E04428	183									7													
40373		RAFHA	N2859	E04607	1181			8						6													
40366		RIYADH	N2439	E04638	1453			8						5													
40430		RIYADH	N2407	E04643	1908			8						8													
40396		RIYAM	N2638	E04821	78			9						10													
40575		SHAALAH	N1728	E05406	94			9			2			10													
40440	41504	SHAQRAH	N2521	E04513	6			9						9													
40356		TURAIF	N3141	E03839	2719			8						9													
		BURMA																									
48063	41941	AKYAB	N2048	E09223	17			4						17						2							
48045		BASSEIN	N1644	E09446	33			4						7													
48019	41934	MYAUK	N2618	E09212	173			4						11													
48109		COCO ISLAND	N1407	E09322	10									8													
48048		HENE	N2304	E09447	3938			4																			
		HEGYI	N1757	E09434	65			4																			
48040		KENGTUNG	N2118	E09917	2716			4						3													
48071	41942	KYAUKPYU	N1928	E09333	17									3													
48033	41943	LASHIO	N2256	E09758	2456			4						12													
48075		LEIKAW	N1941	E09713	2938									6													
48042		MANDALAY	N2159	E09026	246									9													
48095		MAWLAIK	N1644	E09439	39									3													
48053	41913	MEIKTILA	N2054	E09550	728									9													
48110		MERGUI	N1226	E09834	124			4						16													
48044		MINBU	N2010	E09453	168			4						7													
48096		MINGALADON	N1654	E09611	98			4						17													
48103		MOULMEIN	N1630	E09737	72			4						17													
48030	41927	MYITKYINA/MAITKYINA	N2528	E09724	481			4						16										1			
		NAMPONGMAS	N2651	E09717	479			4																			
48093		PEGU	N1718	E09630	66									1													
48077		PEGUM	N1648	E09619	193									3													
48081		PUTAO	N2720	E09725	1345			4						7													
48103		PYAPON	N1618	E09646	11									7													
48074		PYINMANA	N1942	E09617	301			4						11													
48097	41951	RANGOON	N1646	E09619	77									16						2				1			
48080		SANDOWAY	N1828	E09421	34			4						19													
48047		TAMANTHI	N2641	E09503	4712			4						7													
48190		TAVOY	N1446	E09917	33			4						17						2							
48060		THANDAUNGGY	N1758	E09948	90									6													
48078		THAYOY	N16 9	E09729	128			4						19													
48112		VICTORIA POINT	N0958	E09835	131			4						17													
48067		YAMETHIN	N2052	E09600	894									9													
		CAMBODIA																									
49962		BATTAMBANG	N1306	E10512	58			4						12						2		6	6				
49983		KAMPOT	N1039	E10419	19			4						19													
49985		KOMPONG CHAM	N1200	E10537	33			4						16													
49983		KOMPONG SOM/SIHANOUK	N1036	E10329	46									9													
49980		KRATIE	N1233	E10611	10			4						12													
49991		PHNOM PENH	N1133	E10455	33			4						16								7	7				
49946		SIEMREAP/ANGKOR	N1322	E10351	49			4						16								6	6				
49972		STUNG TRENG	N1331	E10558	175			4						10													

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1 -

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (M)
43930		CEYLON			
43931		BANDARANAIKE	06°57N	079°53E	25M
43930		KATTIKULAM	09°47N	078°14E	10M
43946	30701	MANNAR	08°58N	079°55E	2M
43947		COLOMBO-KATUNAYAKE	07°10N	079°53E	8M
43947		HAMBANTOTA	06°07N	081°08E	0M
43954		JAFFNA	09°48N	080°04E	3M
43955		MANNAR	08°59N	079°55E	1M
43956		MULLAITIVU	09°15N	080°49E	0M
43973		VAVUNIYA SILVA	08°45N	080°29E	91M
43974		PUTTALAM	08°02N	079°50E	7M
43978		TRINCOMALEE	08°33N	081°13E	2M
		CENTRAL MAINLAND			
59014		AN TA CHAN/ANSHAN	41°06N	122°52E	49M
59742		CHI CHI HA ERH/TSITSIHAR/CHICATEN	47°20N	123°58E	427
59773		CHIA MU SSU/CHIAMUSZE	46°49N	130°20E	26M
53978		CHISI/LIN HSI/LIN XIN	44°17N	119°05E	71M
59948		FAN MU	44°53N	122°32E	42M
50788		FU CHIN	44°01N	123°15E	23M
59927		HAI LA ERH	49°09N	119°46E	622M
50796		HAILUN	47°28N	126°58E	76M
59943		HARBIN	45°45N	126°36E	479
59953		HUMA	50°14N	126°39E	55M
54949		KOLI/FUSHUN(SHUN)	41°50N	123°45E	46M
59919		LA HA HU LIEN HAIO	49°35N	121°30E	2009
59479		MAIZU HU TU	45°07N	122°09E	217M
50557		MEN CHIANG/MENCHIANG	44°11N	118°51E	71M
52299		PAN CHING	41°41N	122°11E	34M
50472		PO AN TU/POANTU	46°44N	124°25E	233M
59544		SUNGU	44°24N	127°19E	0M
59946		TAO AN/TAUCHENTZU	45°48N	122°35E	45M
59934		TU LI TU	43°33N	122°12E	262M
59963		TUNGNG	40°56N	122°44E	33M
50838		WANG YEN LIU/WALAWAMPT	46°13N	122°30E	0M
50725		WEN CHUAN/WENSIAN	40°11N	111°05E	1120
50639		YA LU/CHALANTUN	46°09N	122°44E	1M
51078		CHOSEN	41°15N	126°01E	337M
51076		ALPITAI/CHANG WU/CHANGWU	40°32N	123°00E	328M
51055		CHANGCHUN	43°54N	125°13E	216M
51099		CHI CHIAO CHING	40°43N	129°58E	283M
51396		CHUNG MU	40°47N	128°03E	166M
51379		CHUTSI	40°03N	128°35E	25M
51097		FUTUN	41°32N	123°54E	45M
51146		HUNGCHUNG	42°53N	126°41E	241M
51021		TAIPAO	41°46N	120°11E	216M
		YUAN CHIANG	42°04N	127°04E	47M
51031		CHOSEN/TUTIEN	43°43N	126°29E	249M
51028		CHUNAN/HOTIEN	43°20N	127°29E	451M
		YUCHIN SHUNJIANG	46°14N	126°30E	310M
51044		YUCHU	44°13N	128°12E	366M
		CHANGCHUN	43°54N	125°13E	216M
51095		CHANYA	43°51N	126°29E	1063M
51077		HOCHIANG	43°49N	126°49E	311M
51716		PA CHU/BACHU	39°48N	127°52E	393M
51288		PEI TAN SHAN/BAYTAN	44°11N	129°35E	692
51094		PU LI/POULI	43°34N	127°31E	1036
51290		SHINGETSU	44°41N	128°40E	146M
51811		SU CHU/SUCHU	43°03N	131°53E	412M
51705		SU LO/SHU LOH	43°01N	130°16E	43M
51463		TI HUA/TEKUAHSIEN	43°34N	128°12E	299M
51765		TIEN KAN CHI/TIENKANCHI	44°03N	128°54E	277M
51373		TUNTUN/TUNGUAN	40°39N	128°14E	9M
51346		WUSU	44°43N	128°03E	134M
51347		YEN CHI/YANCHI	44°13N	129°06E	347M
52896		CHANGSHOU	42°46N	124°00E	1115M
52898		CHIA LO YA	43°47N	130°04E	114M
52533	30902	CHIU CHUAN	41°05N	124°01E	5M
52203		HAMI	42°49N	093°27E	737M
52866		HSI NING	43°53N	118°03E	1343
52978		HSIA MI	43°31N	119°39E	1050M
52319		HSING HSING HSIA	44°17N	124°49E	96M
52998		HUA- NIA-LING/PU	47°57N	130°19E	386M
52889	45004	KAO LIN/LINCHOU	43°40N	126°26E	499M
52546		KAMIAI	43°01N	144°23E	66M
52839		KUNMI	43°21N	144°24E	93M
		ANNITSUY/NUK	45°09N	142°03E	19M
		LIYUAN	44°14N	129°40E	68M
52681		MIN CHI'H/CHEN PAO	43°04N	128°50E	445M
52713		PA MIAO/ CHAI TSHUN	42°27N	129°41E	994M
52341		PANG-TING-TS-LO	44°16N	130°40E	480M
52641		CHAN TSH	42°34N	128°11E	977M
52267		SUN YUO HSH	44°21N	130°11E	280M
52752		SUNGLIHSHA	42°27N	129°29E	90M
52446		SUNG MIN/TIENHSIEN	42°22N	129°04E	456M
52947		TUMEN	43°00N	129°50E	70M
52618		TUNGHAI/TUN HSIAN	44°00N	129°44E	373M
52782		WUCHIANG/WUCHSHUEILIEN	43°11N	128°05E	99M
52638		YI HSH	44°42N	129°31E	364M
59947		CHANG CHUN	43°54N	125°13E	216M
53540		CHANGCHI	43°57N	128°04E	413M
59043		CHIN-HSIU	43°48N	131°13E	24M

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV. IN FEET
53532		PHILAMTAI	N3949	E10930	3793
53668		CHWLIEN	N4122	E11137	3179
53336		HAILIUTU	N4128	E10957	4101
53192		[illegible]FU-TAO	N4301	E11629	3098
53946		HO CHU	N3923	E11709	3501
53923		HSI FENG CHEN	N3942	E10744	4724
53391		HUA TE/HUATEH	N4146	E11500	4024
53463		KUEI-SUI/HUHEHOT	N4049	E11141	3484
53646		LIEN FENG/LINFUNG	N3604	E11127	1516
53529		MIENCHI	N3906	E10959	4328
53592		PAI CIH HIAO/PAILINHAIAO	N4158	E11030	5865
53672		PAO TAU	N4036	E10955	3429
53913		PING[illegible]	N3933	E10638	4642
53692		SHIH CHIA CHUANG	N3802	E11428	270
0		YUHINE IN GOBI DESERT	N4443	E11143	4750
53429		TAI [illegible] CHEN/SHANPA	N4038	E10710	3226
53774		TAI YUAN	N3755	E11231	2625
53291		TUNGKIH	N4232	E10912	3468
53276		WENTULAIAO	N4237	E11250	3760
53588		WUTAISHAN	N3901	E11131	3199
53723		YEH CHIH	N3743	E10727	4200
53645	43002	YEHWAN/YU SHIH/YUPSHIH	N3634	E10932	2953
53614		YINCHUAN/YINCHWAN	N3823	E10916	3658
53593		YU HSIEN	N3956	E11443	2867
53646		YU LIN/YULINS	N3815	E10929	3556
53939		YUN CHUNG/YUNCHUNG	N3752	E11159	1214
54497		AN TUNG	N4002	E12417	26
54031		CHANG CHIA KOU	N4059	E11911	2401
54049		CHANG LING	N4415	E12339	787
54256		CHANG WU	N4324	E12219	764
54161		CHANGCHUN	N4332	E12520	708
54374		CHAO YANG	N4159	E12027	584
54539		CHENG-TZU-YUAN	N3943	E12230	149
54277		CHI AN	N4104	E12410	1096
54172		CHI-LIN/JILIN	N4352	E12639	617
54181		CHIA HO CHIEN	N4343	E12719	902
54218		CHIA PING	N4216	E11854	1454
54337		CHIN CHOU	N4108	E12107	213
54023		CHIRAN/CHI NAN/TSIHAN	N3642	E11704	95
54402		CHING YUAN	N3930	E11934	65
54504		CHUANG HO	N3944	E12304	184
54423		CHUNTIEN/CHANG TE/CHENGTE	N4053	E11732	1277
54543		FU HSIEN	N3943	E12142	1284
54904		HO ING	N3413	E11929	105
54077		HSIAO YE LIN	N4400	E11912	1445
54272		HUA TIEN/HUAN CHIEN	N4257	E11643	430
54423		HUAILAI/HWAILAI	N4029	E11544	1007
54725		HUI-HSIN/HUEIHING	N3930	E11729	32
54693		HUAN TIEN	N4304	E11644	44
54374		LIN CHIANG	N4143	E12651	1119
54113		LIN HSI/LINSI	N4330	E11907	2661
54469		LIN YU	N4048	E11944	85
54078		LU PEI	N4434	E12054	1437
54244		NANKOW/NIE HO KOU/SHUANG YANG	N4231	E11938	1075
54094		NU TAN CHIANG	N4452	E12734	787
54342	44292	NUNGPAN/SHEN YANG	N4143	E12326	138
0		NAN CHUNG HUANG TAO	N3832	E11753	345
54102		PANTSHAN SUNG/PHILIPPOT	N4133	E11602	9169
54911	44181	PEIPING/PEKING	N3958	E11620	167
54871		SHIH TAO	N3653	E11925	12
54306		SHIH-SAN-TAO-HSI	N4126	E12143	1968
0		SHUI KOU TOU	N3852	E11836	479
54197		SHUPING/SIPING	N4313	E12420	535
54096		SUI FEN HO/SUEIFENHO	N4428	E13109	1501
54662		TA LIEN/DAIREN	N3454	E12136	312
54534		TANGSHAN	N3940	E11907	107
54714		TE MINTENGHSIEN	N3728	E11618	75
54527		TIEN CHING/TIENTSIN	N3911	E11706	33
54230		TO LUN	N4211	E11612	3973
54618		TSANGHSIEN	N3822	E11653	39
54403		TSAO HO KOU/TSAOHOKOW	N4054	E12254	204
54057	45.04	TSINTAO/CHING TAO	N3604	E12019	518
0		TSIU CHUAN	N3930	E09907	5375
54138		TUNG LIAO	N4344	E12313	660
54374		TUNHUTIN/LIN[illegible]HE	N4147	E12653	1024
54078		TZU YANG	N3935	E11451	172
54612		WANGKUTPIAO	N4446	E11900	3794
54643		WEI HSIEN	N3642	E11907	139
54298		YENCHI	N4234	E12031	568
54763		YENTAI/CHEFOO	N3733	E12212	39
54491		YING KOU/YINGKOW	N4240	E12214	72
0		YURI/LA TZU TSU	N4237	E13024	UNK
53299		ERH HSIAN	N3700	E09707	13124
53640		ERHKATSE	N3653	E09930	13116
53773		YUNNI MIENG/PAI	N3744	E09905	12204
53279		YUO PING	N3720	E10930	14898
53578		ZUNIKATSE/JUN KEHTSUEH	N3812	E10835	12195
54171		APA	N4243	E10918	9812
54708		CHAN 3/TSANYE	N3535	E10750	6735
54157		CHANG TU	N3518	E09918	12448
54546	420.6	CHAO TUNG	N4210	E10343	6439
54295	430.6	CHENG TU	N3940	E10604	1804
54046		CHIHSI	N3845	E09948	13794
53549		CHING HUNG	N4145	E10645	1752
54624		CHITING-HSILIN/K	N4337	E09237	18564

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV GROUND	ELEV SEA LEVEL	ELEMENTS
56462		CHIULUNG	N2459	E10133	9445		
56480		HO KOU	N2231	E10930	448		
56571		HSI PANG	N2753	E10710	9268		
56633		HUANGSHIHLIN	N3497	E09608	11916		
56671		KAO LI/MAOLI	N2650	E10715	6299		
56692		I PIN/PINPIN	N2849	E10832	939		
		KAN HAI TZU	N2450	E10750	6500		
56146		KAO TZU/KENTZE	N3136	E09959	10892		
56716	42002	KUN MING	N2502	E10242	6211		
56533		LANYANG/TIENLI	N2746	E09853	1868		
56696		LANYUTSU	N2826	E09927	1868		
56691	42209	LI CHIANG	N2637	E10018	7926		
56257		LI HUA/LITANG	N3000	E10016	14757		
56951		LINTSANG	N2551	E10519	4987		
56172		MALIANG	N3151	E10241	6330		
56963	42020	MING TZU/MINGTZE	N2320	E10323	4262		
56693		MIN HSIEN	N3456	E10605	2944		
56163		MOU KUEI/MAOKUEI	N3143	E10353	5157		
56178		MOU KUNG/MIAOKUNG	N3106	E10222	8067		
56365		O PEI/OMEISHAN	N2928	E10321	10292		
56267		PA AN/PATANG	N3525	E09853	8858		
56756	32010	PAO SHAN	N2303	E09969	9354		
56821		PEMU KU	N3436	E09951	12903		
56156		PO TSUN	N3154	E09940	13898		
56966		SSU MAO/SIERAO	N2226	E10105	4327		
56183		SUNG PAN/SUNGPO	N3239	E10154	9693		
56791		TA LI	N2549	E10011	6435		
56116		TE CHING/TINGCHING	N3129	E09929	12123		
56666		TE-CHI/TEH CHIH	N2829	E09869	12697		
56739		TENG CHING	N2957	E09929	5166		
56968		TUNGYUEN	N2309	E09656	9260		
56691		WEI SHI/WEISI	N2913	E09918	7997		
56696		WEI XING/WEI HING	N2633	E10419	7331		
56297		WU TU/WUTOU	N3223	E10441	3376		
		YA AN/YAEN	45000	E10383	2095		
56618		YU YU JI WEN/YE LA WSI	N2389	E09643	13139		
56763		YUAN SHUI/YUAN PAO	N2540	E10159	9060		
56960		YUANCHIANG/YUAN CHIANG/YUAN CHIANG	N2932	E10158	2300		
56829		YUSHU/CHIEH SU	N3304	E09649	12707		
57269	43013	AR BING	N3932	E10921	869		
57679	42109	CHANG SHA	N2813	E11258	161		
57662		CHAN-TEH	N2853	E11133	121		
57972		CHEN HSIEN/CHENGHSIEN	N2349	E11259	561		
57863		CHENG HSIEN/CHENG CHOU	N3443	E11343	359		
57749		CHIAN/CHINAN	N2703	E11439	265		
57769	42111	CHIANGLANG/CHIH CHIANG	N2715	E10959	879		
57813		CHANG CHING	N2934	E11943	853		
57376		CHANG HSIANG	N3110	E11324	216		
	42028	CHANGKAING/CHANG CHIAO	N2933	E10633	793		
57667	43000	CH SHIH	N3016	E10927	1434		
57[illegible]		CHIH CHIEH	N3104	E10929	901		
57644	43103	CHUNGK[illegible]	N3833	E11417	125		
57776		CHUNG SHAN	N2713	E11243	6255		
57672	42101	CHUNG TIEN	N2676	E11235	362		
57169		CHIEN HUA	N3345	E11424	167		
57822		CHIN CHOU	N2853	E10727	6903		
57607		CHIEN YANG	N2907	E11605	259		
57955		CHIEN JEN	N2823	E10919	6825		
57798		CHIU SHUI	N2642	E11034	303		
57866		CHUNGKING/CHUNGKING	N2925	E10957	6834		
57[illegible]		[illegible] CHOU/TINGCHOU	N3758	E11423	369		
57[illegible]		[illegible]/TINGCHING	N3642	E11115	2304		
57[illegible]		[illegible] CHIANG/YUNGCHIAN	N2752	E10835	10778		
57875		[illegible]-PING	N3648	E11421	1278		
57[illegible]	42107	[illegible] WEI/KANGCHU	N3350	E11408	361		
57256		CHANG YUAN	N3228	E10948	1390		
57977	42102	CHEN LIN/YUEI LIN	N2912	E11210	912		
57816	42629	CHIYANG/CHIEI YANG	N2634	E10642	3124		
57265	43101	CHI HO KOU/LAOKOUKOU	N3223	E11146	709		
57946	42107	CING CING/CINGLIN	N2932	E11151	594		
57973		CO YUEH/HO HAN	N3441	E11520	472		
57967		CU SHIH	N3608	E11101	2421		
57136		CUEH YANG/CUEYANG	N3316	E10557	2183		
57972		CUNGSIEN/CU HSIEN	N2858	E10914	707		
57918		CUTIEN/CUTIEN/CO TIEN	N3827	E10946	1459		
57127		CZU CHENG/HSICHUNG	N2705	E10718	1788		
57178		HAN YANG	N3041	E11237	420		
57611		HANCHUNG	N3042	E10642	1971		
57594		HEI CHIANG	N2933	E10703	2129		
57918		HEI SHIH T'OU/HEI TO	N2928	E10622	1868		
57816		HEN CHI	N3414	E10650	2041		
57707		HI CHIEN	N3[illegible]10	E10914	4036		
57936	43007	HSIEN/HSI AN	N3[illegible]15	E10839	1796		
57196		HSIEN	N3[illegible]10	E11[illegible]0	1868		
57520		HA [illegible]/HAHSIEN	N3516	E10728	1017		
57257		HAN YUAN	N3203	E10909	2310		
57933		HU [illegible]/HAN YANG	N2848	E10944	2152		
57939		HUAN CHUAN/HSIEN CHOU	N3827	E11023	472		
57971		HUANG[illegible]	N2951	E11323	287		
57944		HUANYUAN/. CHOU/YUAN YUAN	N2928	E11309	147		
58911		CHANG-TING/TINGC	N3345	E11420	1043		
58797		FATENG/HU	N2758	E11819	568		
58931		FATH SHUI/SHUIFUKHSIEN	N2915	E11926	58118		
58939		FATO CHIANG	N2847	E11955	1827		
58477		FAPU SHAN	N3[illegible]	E12206	39		

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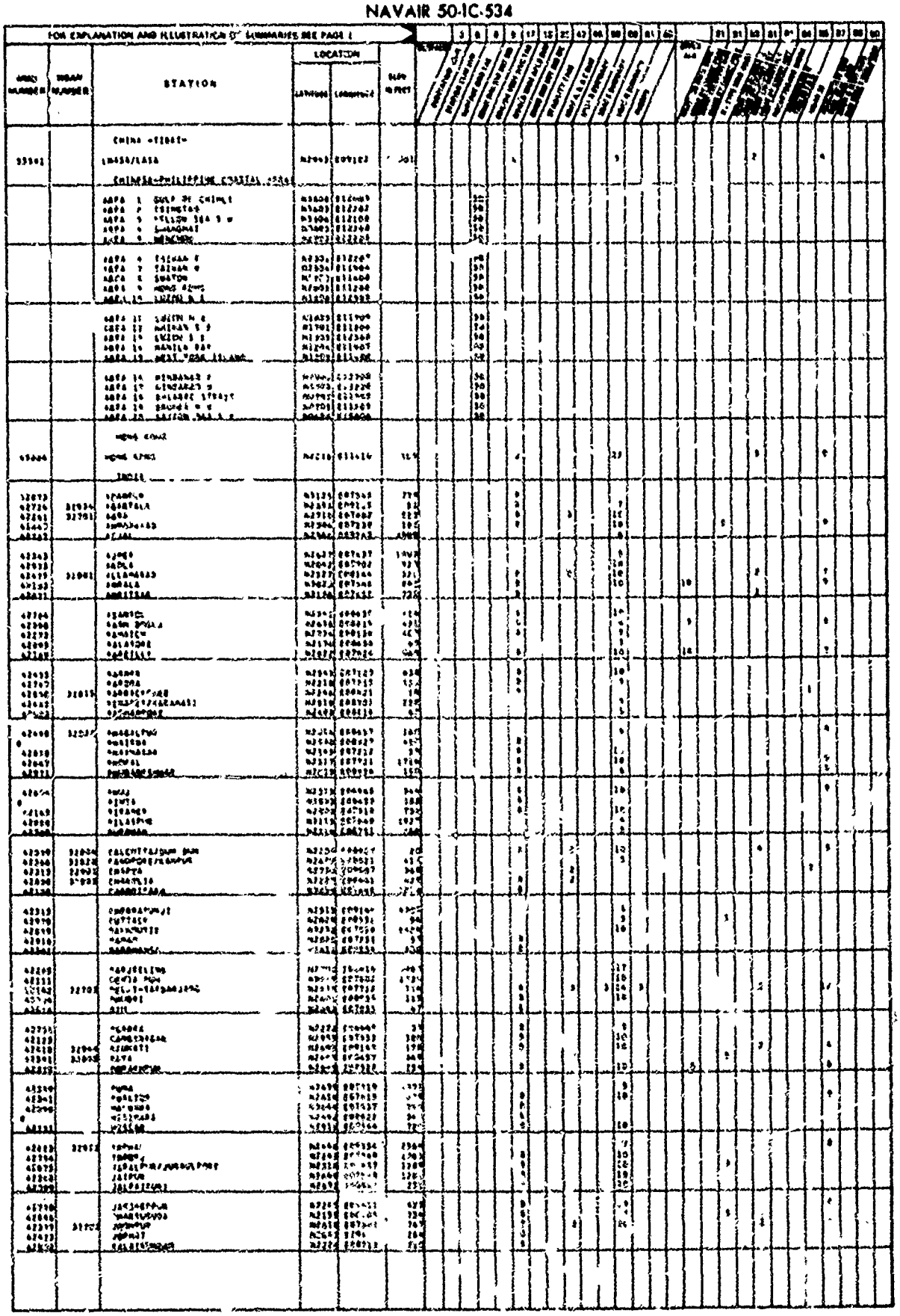
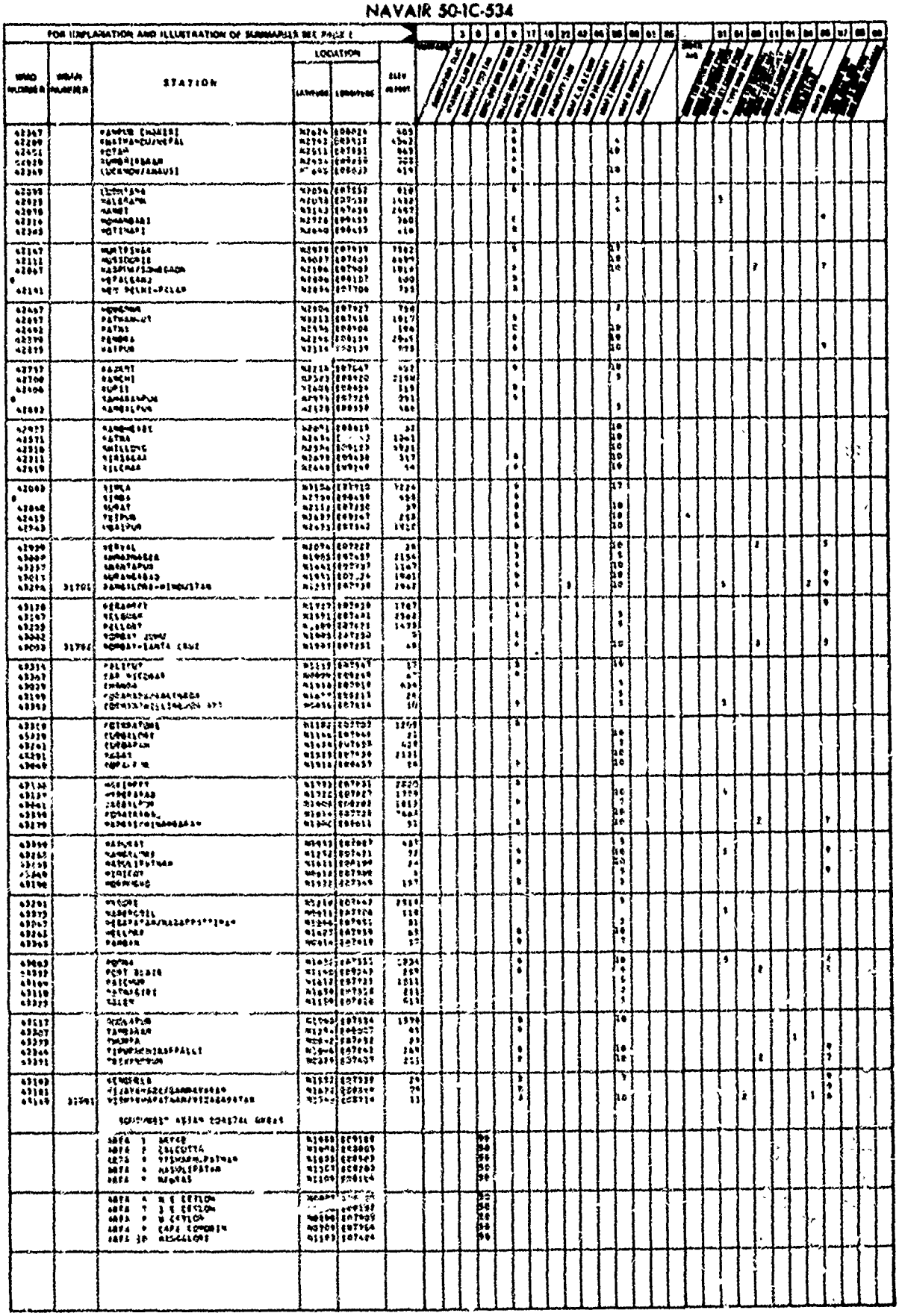
WBID NUMBER	BRAM NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (FEET)	SURVEY
38693		CHEMISTRY	32°58'	111°53'	1161	
38726		CHUCK AR	32°39'	111°39'	2680	
38927		FORT LOWELL	32°14'	110°55'	1857	
38928		FORT PAGE	31°33'	110°30'	1854	
38794		MT TIRE	32°20'	110°22'	2779	
38847		PUCHUK	32°55'	111°10'	2200	
38868		WATER/MOISTURE/ATMOSPHERIC MOI	32°04'	111°11'	92	
38897	63202	WEATHER	32°14'	110°57'	2584	
38916		WQ SHAW	32°15'	110°55'	2760	
38926		WOFFLE	32°13'	111°15'	92	
38938		WELL TO CHUK	32°07'	112°15'	969	
38944		WELL AV CHUK	32°39'	111°15'	13	
38947		WELLMEN/TUNG SHAW/CHUKMO	32°33'	111°15'	1460	
38956		WOOL MINE/ARCHIVAL	32°02'	111°52'	81	
38966		WOOL TIN/MOISTIN	32°39'	111°42'	92	
38987		WOLFE SHAW	32°06'	111°09'	969	
38988		WV SHIP	32°18'	111°40'	1921	
38946		WELL SHAT	32°20'	111°55'	2760	
38927		TUNG TIN	32°26'	112°07'	2000	
38969		WATSU	32°03'	111°59'	2520	
38994		SHAW TING	32°39'	111°15'	1460	
38998		LANCHANG	32°20'	111°39'	1821	
38715		WANCHANG	32°32'	111°39'	1930	
38738		WANGTAN/SHAW CHUNG	32°05'	111°45'	82	
38721		TUNG TAN/SHUNTU	32°39'	111°22'	82	
38944		TING TIN	32°50'	111°47'	1259	
38968		TONGTING/TO SHIPN	32°33'	111°54'	1460	
38711		PU CHUNG	32°55'	111°03'	4000	
38.47	63204	TWANGWANG	32°32'	112°28'	16	
38723		SHAO WU	32°32'	111°28'	4200	
38731		TA SHAN CHAO/TA SHAN CHUK	32°51'	111°07'	99	
38791		TUNGTAT	32°21'	112°19'	79	
38943		WU CHIN/CHANG CHUK	32°56'	111°57'	83	
38921		YOUNG TA	32°55'	111°31'	4200	
38939		YUNG CHIN/WANCHUK	32°08'	112°26'	1760	
38955		CHIN CHI SHIN	31°57'	110°52'	1421	
38966		CHIN JI-CHIAO	32°36'	112°28'	2200	
38922		CHIN CHING CHIANG	32°56'	110°55'	2920	
38932		CHIN MIAO/CHINCHUK	32°15'	110°59'	3400	
39002		CHU CHIANG	31°30'	111°20'	3200	
39008		FORT BOWIE/CHANGCHIANG	32°10'	109°27'	4600	
39010		HATCHU	32°40'	111°05'	4600	
39013		WU SHAN	32°35'	111°42'	1461	
39194		WEI WU/WEI SHAN/WEIJU WU	32°37'	111°09'	1200	
39001		WEI SHA CHUN/PAGACEL ISLAND	32°54'	111°25'	1	
39158		WEIN CHI/SHIWEI	32°40'	112°39'	1120	
39102		WUN WU	32°07'	111°20'	4200	
39263		YUANG CHOU/CHATOU/YUAN-CHUK	32°31'	111°20'	65	
39007		YUANG SHAN/CHANGSHA	32°40'	110°27'	4377	
39241		YUEI TING/YUNTING	32°37'	111°00'	1321	
39073		YUEN WEIN	32°44'	111°27'	1200	
39246	63203	YUN CHU/YUNCHU	32°10'	110°10'	1221	
39217		YUNG CHUK/YUNG YUAN	32°32'	110°44'	4200	
39243		WAIWU	32°34'	111°35'	4200	
39117		WEI WEIN	32°41'	111°44'	1575	
39111	63207	WANG/SHU/YUN-SHIN	32°35'	110°19'	2460	
39048		WEI-CI/WEI-SHAN II	31°59'	110°39'	92	
39211	63219	WOTEN/WOTSIN	32°35'	110°32'	4200	
39991		SHAN WU	32°44'	111°32'	2460	
39210		WANTON/SHAN TSU	32°37'	111°40'	1200	
39079		YAIS-WAN/SHANTAN	32°31'	111°24'	1200	
39046		YUNG CHU-WEIEN YU	32°32'	111°05'	2460	
39221		YUNG-CHAN/TSUEI	32°59'	111°33'	2460	
39263		WUCHUN/TSANG WU	32°35'	111°32'	2460	
39040		CANG CHIANG	32°17'	111°17'	2460	
39048		WAI/SHU CHIAO	31°01'	110°03'	4200	
40793		WEI WU/JIEJIN	32°31'	112°40'	2091	
40797		WEN/SHAN-SHAN	32°47'	111°21'	1200	
40819		WENG/WANG/WENG-CHUN	32°39'	112°04'	2460	
40797		WEIN-CHU	32°44'	112°05'	2460	
40783		WEILIE/JIELIWUFONG	32°25'	112°37'	2460	
40743		WANG-SHAN	32°25'	112°01'	2460	
40746		YIAYI/CHIAO-I	32°37'	112°03'	2460	
40736		YI/WEI	32°47'	111°20'	2460	
40744		YUNTSE/YUAN-SHIWU	32°25'	112°20'	2460	
40710		YUNG SHAN/CHIAO-CHUAN YUAN	32°41'	111°37'	2460	
40769		TUNGTAN	32°49'	112°11'	701	
40744		WANGWU	31°37'	111°05'	2460	
40699		YATSU	32°41'	111°32'	2460	
40748		YING TING NORTH	32°26'	112°20'	2460	
40748		YING TING SOUTH	32°26'	112°20'	2460	
40818		WUTSI	32°26'	111°49'	2460	
40781		YAI CHUNG/TSANGPINGSHAN AP	32°31'	112°23'	2460	
40743		YAI WAN	32°23'	112°03'	2460	
40696		YAIPEI INTL	32°04'	112°13'	2460	
40746		YAITUNG	32°26'	112°00'	2460	
40747		YATWU	32°34'	111°57'	2460	
40807		YATTSAN	32°30'	112°13'	2460	
40747		YUNGKUNG	32°27'	112°26'	2460	
40784		YILAN	32°46'	112°14'	2460	





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OMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	DATA HEIGHT
		ABFA 11 PANJIM	N1504	E07207	
		ABFA 12 BOMBAY	N1704	E07206	
		ABFA 13 GULF OF CAMBAY	N2008	E07209	
		ABFA 14 N E ARABIAN SEA	N2005	E06705	
		ABFA 15 N W ARABIAN SEA	N2005	E06506	
		ABFA 16 S E OMAN	N1903	E05906	
		ABFA 17 KARACHI	N2309	E06603	
		ABFA 18 JIWANI(AK)	N2307	E06708	
		ABFA 19 SHARJAH	N2504	E05503	
		ABFA 20 N GULF OF OMAN	N2506	E05607	
		ABFA 21 S GULF OF OMAN	N2309	E05908	
		ABFA 22 S E PERSIAN GULF	N2503	E05907	
		ABFA 23 S E PERSIAN GULF	N2707	E05704	
		ABFA 24 N W PERSIAN GULF	N2709	E05506	
		IRAN			
40931	39041	ABADAN	N3022	E04813	
		ESFAHAN	N3137	E05141	
39736		KHARG ISLAND	N2914	E05019	
40854		KISH	N2616	E05316	
40879		KUMDAN (OLD)	N2713	E05617	
40518		KUMDAN/PANGAVE	N2716	E05619	
40899		MINAB	N2708	E05132	
40846		MASHHAD	N3059	E05956	
40890		QASHQAI	N3233	E05003	
	39048	QESHM	N2656	E05457	
40855		SIRJAN	N2921	E05539	
40736	39040	TABRIZ	N3805	E04804	
40843		ZAHEDAN	N2928	E06043	
		IRAQ			
40844		AL AMARA	N3152	E04751	
40898		BASRAH INTL	N3034	E04734	
40839		BAYJI	N3456	E04347	
40837		HABBANIYA	N3326	E04319	
40838		HABBANIYA PLATE	N3326	E04322	
40847		KHANAQIN	N3430	E04521	
40821		KIRKUK	N3527	E04424	
40865		MOT AL HAJ	N3210	E04407	
40858		MOSUL	N3614	E04308	
40879		NAJAF	N3201	E04401	
40878		NASIRIYA	N3101	E04614	
		RAMADI	N3319	E04417	
40861	39309	RUTBA	N3302	E04017	
40886		SAMARA	N3417	E04349	
		SYRIA			
40181		AFIS AL ABED	N3317	E03655	
40181		AFSOUTHEAST	N3116	E03647	
40179		ASY PALMYRA	N3300	E03449	
40199		AZRAQ	N3203	E03637	
		DEIR	N3115	E03649	
40194		HAIFA	N3248	E03209	
		HAIFAH	N3143	E03643	
40133		KAB KEMAIAN	N3255	E03530	
40194		KHUWEILFA	N3145	E03213	
40196	39301	LOD INTERNATIONAL AIRPORT	N3200	E03454	
40173		MATAFFA	N3220	E03431	
40170		MIRAF MAIN	N3206	E03811	
40177		MIRAF MAIN PORT	N3208	E03647	
		JORDAN			
47609		ABDALI	N3448	E03617	
47652		AIRAK	N3003	E03918	
47596		AMMAN	N3401	E03640	
47582		AQITA	N3048	E03606	
47572		AQABA	N2937	E03501	
47575		AZRAQ	N3004	E03647	
47667		BAMBILAH	N3350	E04722	
47593	41306	BEMIYA RYSHAD	N3233	E03938	
47679	41319	BIYAR AAS	N3312	E03928	
		CAMP MCGILL	N3311	E03937	

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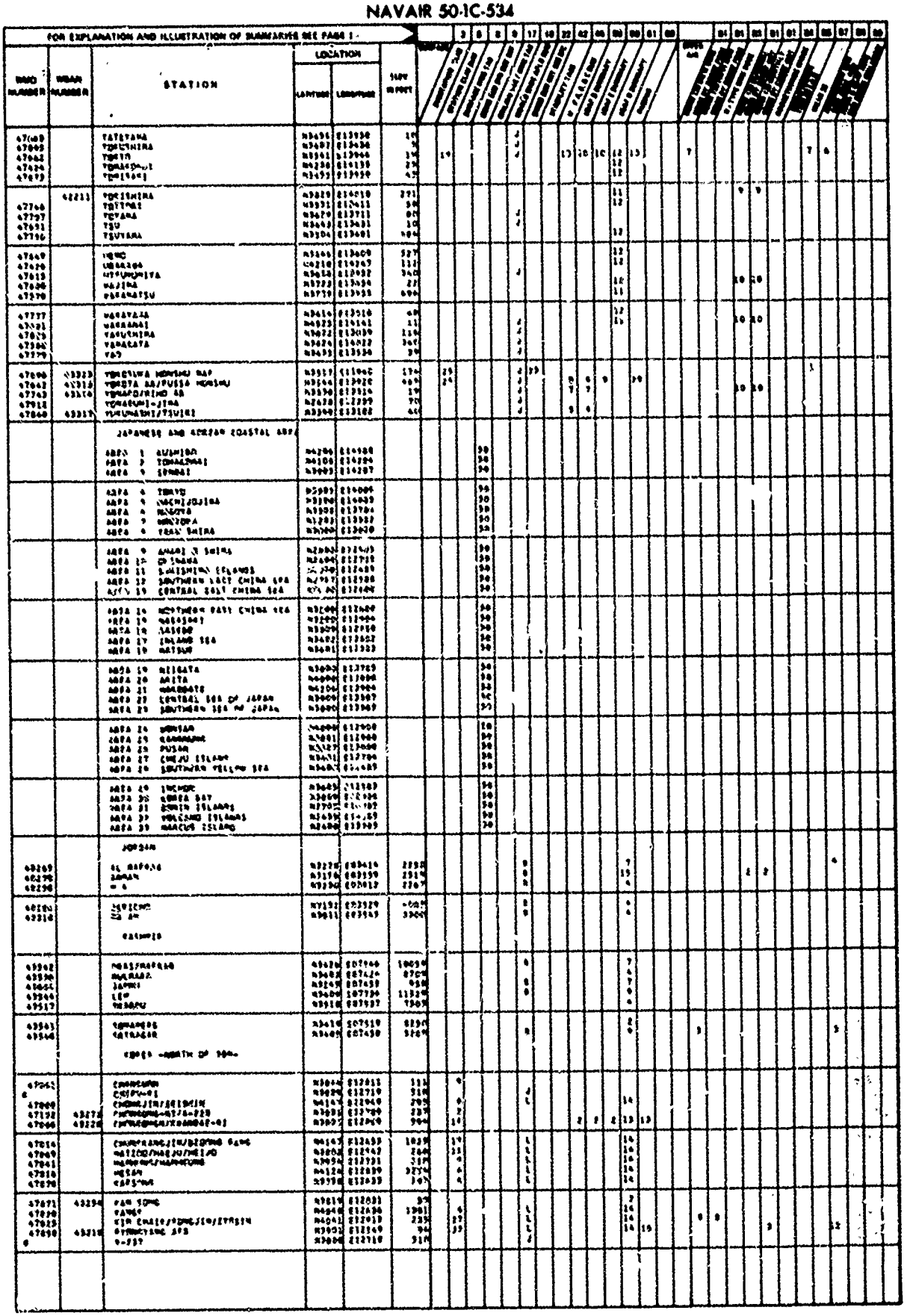
WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	3	4	5	9	17	18	22	43	46	50	60	61	80	01	02	03	04	05	06	07	08	09
0		CAMP OTSU	N35°52	E138°52	295				4																		
0		CAMP SHIMOSHIZU	N35°19	E138°56	98				4																		
47646	63823	CAMP ZAMA	N35°30	E139°24	345							3	7	7													
47623	64401	CHITOSE HOKKAIDO	N42°46	E141°39	82	10			4			8	8	11		10											
47669		CHOFU	N35°4	E139°31	133				4																		
47610		CHOSHI	N35°43	E140°51	61										12												
47674		FUKAGAWA	N43°44	E141°58	226										12												
47662		FUKUI	N36°09	E136°08	268																						
47636	63319	FUKUOKA AIRPORT AB	N33°35	E130°27	10	14			4			17	17	17	12	17			8		8	8		9	8		
47655	642219	FUTSUMA DAINANA MCAF	N42°11	E142°45	164	19			4	18																	
47632		GIFU AB	N35°23	E136°42	131				4																		
47678		HACHIJOJIMA	N33°06	E139°47	267				4						12						9	8					
47681		HACHINOHE	N40°32	E141°32	94				4						12												
47618		HAKODATE	N41°46	E140°45	117				4						12												
47694		HAMAMATSU AB	N34°46	E137°42	134				4																		
47615		HANDA	N34°53	E136°56	13				4																		
47649		HANEDA/AMI	N35°33	E139°56	299				4																		
47768		HIROSAKIMA	N34°38	E133°28	100				4						12												
47769		HOFU AB	N34°01	E131°33	10				4																		
0		IRUMAGUN AB	N35°10	E139°25	167				4																		
47693		IBARA	N34°50	E133°50	23				4						12												
47662		IBUKI AB	N35°30	E136°24	295				4																		
47618		ICHIKAWA JIMA	N34°57	E136°49	24				4						4												
47744	643326	IWAKUNI KURUSHIMA MCAF	N34°09	E132°14	10	24			4	20					9									2			
47611	62296	KADENA AB OKINAWA	N26°21	E127°45	184	33			4	33		19	19	19	19	22			16		17	17		20	11		
47617		KAGOSHIMA	N31°34	E130°33	17				4						12						10	8					
47669		KAMATAKA	N35°33	E136°29	94				4						12												
47633	63349	KAMOTA AIRSHU	N35°23	E136°55	254				4			2															
47667		KATSUSHIKA	N35°51	E139°51	13				4																		
0		KENDEITSU	N43°5	E144°3	468				4																		
47661		KISARAZU HONSHU	N35°23	E139°55	6				4			3	5	6													
47662		KITAKYUSHU	N33°53	E130°48	82				4						12												
0		KOBE	N34°41	E135°12	26				4																		
47803		KOFUSE	N35°39	E139°54	69				4																		
47764		KOMATSU AB	N36°24	E136°23	31				4																		
47670		KUMAMOTO	N32°50	E130°51	144				4						12												
47819		KUSHIRO	N42°58	E144°23	353				4						12												
47618		KUSUNOKI	N34°29	E134°49	43				4						12												
47764	63981	KYOTO	N35°01	E135°44	15				4						12												
47624		MATSUSHIMA	N38°24	E141°06	328				4						12												
47690		MATSUYAMA	N33°39	E132°47	104				4						12												
47741		MATSUE	N35°27	E133°04	61				4						12												
47618		MATSUMOTO	N36°15	E137°57	648				4						12												
47747		MATSUMOTO	N35°47	E137°53	9				4																		
47591	63401	MATSUSHIMA HONSHU	N38°24	E141°03	11				4			7	7	9													
47807		MATSUYAMA	N33°50	E132°47	138				4						12												
47645		MIHARA SHITO JIMA	N34°24	E133°05	32										9												
47646	64402	MIHARA AB/YOKOSUKA MCAFHONSHU	N34°41	E139°23	121	30			4	30		10	16	18		19			3			6		7	8		
47672		MITO	N36°23	E140°28	108				4																		
47677		MIYAKEJIMA	N34°07	E139°31	121										12												
47648		MIYAKO	N39°38	E141°58	154										12												
47629		MIYAZAKI	N31°56	E131°28	95				4																		
47630		MIYAZAKI	N31°55	E131°25	6				4						12												
47614		NAGOYA	N35°14	E136°58	51				4						12												
47628		NAHA	N26°12	E127°39	196										12												
47699		NAKATOKUSHIMA	N30°29	E130°11	65										12												
47613		NARITA	N35°45	E140°23	141				4						12												
47617		NARUSHIMA	N34°17	E134°33	85				4						12												
47699	65318	NAHORO	N43°54	E142°39	95				4			11	15		12				6		6			6			
47630	62736	NAHA AB OKINAWA	N26°18	E127°39	12	10			4							10											
47683		NAIHA-SHIBETSU	N44°24	E145°43	75				4						12												
47699		NAIE	N43°23	E142°08	14				4						12						9	9					
47628		NAMIKU	N36°30	E140°35	88				4						12						8	8					
47634		NIIGATA HONSHU	N37°55	E139°05	13				4			3	5	6	12												
47615		NIIHAMA	N33°55	E133°16	73				4						12												
47617		NIIGATA	N34°42	E135°19	154				4						12												
47613		NIJA	N35°46	E133°29	6				4						12												
47748		NOBEOKA	N32°35	E131°39	4				4						12												
47598		NOMONKI	N36°17	E140°09	14				4						12												
47772		NOSAPPU HOKKAIDO	N43°39	E143°32	72				4			10	11		12									7			
47679		NOSHIRO	N40°11	E140°01	12				4						12												
47611		OITA	N33°14	E131°36	82				4						12												
47663		OMAE	N42°04	E139°12	83				4						12												
47787		OZUKI	N34°53	E135°39	14				4																		
47698		OMIYA	N36°21	E139°38	17				4						12												
47688		OMORI	N35°33	E139°43	82				4						12												
47687		OMAEZAKI	N34°36	E138°13	26				4						12												
47618		ONAHAMA	N36°56	E140°54	31				4						12						10	10				6	
47612		OSAKA	N34°40	E135°26	52				4						12												
47744		OSHIMA	N34°44	E139°22	1				4						12						10	10					
47727		OSHIMA/KUSHIMA NAB	N33°57	E131°01	68				4						12												
47762		OSHIMOSHIRI	N42°35	E139°26	138				4						12												
47778		OSHIMOSHIRI	N42°25	E139°46	744				4						12						10	10					
0		OSHIRI	N43°14	E140°01	98				4																		
47646		OWASEGAWA	N35°18	E139°24	45										12												
0		OZAWA	N35°16	E139°37	134				4																		
47667		OZUMO	N42°35	E139°42	158										12												
47631		OBITSU	N34°45	E140°14	54										12												
47666	63367	RASHIKAWA AB	N35°2	E139°24	92				4																		
47612		RAWA	N35°54	E139°39	44										12												
47693		RAWASHIU	N36°13	E139°26	84				4						12												
47676		RAWDA	N41°17	E141°13	17										12												
47670		RAWDACHIMA	N38°2	E139°57	91				4						12												
47644		RETEMO	N45°4	E141°4	84																10	10					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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
47068		SARIKOM	N3831 E12246	79	
47035		SIN-PUTOS/RYUKAMPO/SINMIJU	N4306 E12424	26	
47063		SINUIJA	N3823 E12213	413	
0		SEPAN	N4030 E12350	498	
47059		HOMSIN/SONGSAN	N4011 E12721	114	
47003		HOMN-NI/UNNGI/HAMHUNG AI	N4219 E12404	200	
		EQUIV +SOUTH OF 38N-			
47118		A-187	N3730 E12643	65	
0		A-210	N3744 E12702	174	
0		A-304	N3732 E12743	230	
0		A-311	N3637 E12702	37	
47139	43270	CHANGNI SAP	N3605 E12925	75	
47130	43217	KWAJU OO	N3731 E12629	49	
47117	43208	CHINNAE/SOK APS A-10	N3906 E12642	14	
47104	43271	CHUNCHON/CAMP PAGE AAF	N3752 E12743	236	
47146		CHUNJU	N3949 E12709	128	
47135	43206	CHUNGMUNTONG	N3613 E12600	808	
47119	43232	HOENGSONG AB/EDA APS A-46	N3727 E12757	338	
47118		HOKCHON	N3729 E12638	231	
47109	43223	HOMCHANG	N3745 E12856	69	
0		HOMNAE	N3810 E12859	12	
47141	43219	HUNGNAM	N3938 E12737	38	
47158	43234	HWANGJU AB/SOK APS A-57	N3857 E12648	63	
47103		HOKSP	N4047 E12623	107	
47107	43263	HOKSUNG	N3712 E12813	22	
47122	43242	HSAN NI	N3706 E12707	41	
47103	43221	KANGNUNG OO	N3745 E12846	319	
47158		KOMANG DONG	N3539 E12823	66	
47154	43215	KUSAN	N3510 E12858	16	
47127	43216	KYONGSEON	N3647 E12752	57	
0		A-401	N3726 E12738	335	
0		A-813	N3506 E12841	9	
0		A-814	N3505 E12804	29	
0		A-819	N3539 E12825	79	
47161	43240	MASAN AB/SOK APS A-4	N3505 E12803	49	
47111	43201	MECS	N3746 E12656	31	
47128	43206	MUNSN	N3713 E12700	85	
47142	43212	MUSAN	N3534 E12839	98	
47132	43214	MUSAN/SOK APS A-3	N3620 E12723	137	
	43238	MYONGCHON/TEAN DIV A	N3734 E12705	154	
	43246	MYONG NI	N3747 E12651	35	
47104	43218	NAJONGNI	N3744 E12702	134	
47113		NULLYONG	N3729 E12804	734	
47132		NUSAN	N3533 E12919	183	
0	43209	YONGIL AAF/POHANG	N3539 E12928	6	
47108		YOSU	N3404 E12744	227	
		LAOS			
	41868	ATTOPEU	N1446 E10636	410	
	41939	BAN HOUEI	N2018 E10025	1383	
48938	41961	LUANG-PRABANG	N1932 E10238	997	
	41877	MEUNG PHALANE	N1601 E10534	360	
489 9		NAPE	N1818 E10904	1937	
48[illegible]	41871	PAKSE	N1513 E10546	335	
48918		PLAINE DES JARRES -ATTOPEU-	N1918 E10800	3[illegible]	
48918		SAM NEUA	N2033 E10604	2231	
0	41870	SAVANNAKHET	N1634 E10625	535	
48947	41874	SAVANNAKHET	N1638 E10644	569	
48948		SENO	N1648 E10730	604	
	41872	VIENTIANE	N1934 E10234	570	
0		THAKHEK	N1724 E10440	443	
48943		VIENTIANE	N1757 E10734	524	
		LEBANON			
40100		BEIRUT/BEYROUTH	N3349 E03529	79	
40120		KHAT	N3459 E03533	1823	
40165		LES CEDRES	N3419 E03643	6185	
40134		MERJAYOUN	N3321 E03533	2394	
40102		RAYACK	N3350 E03640	3923	
40193		TRIPOLI/KLEIATE	N3427 E03548	33	
		MACAO			
45011		MACCAO	N2233 E11333	229	
		MALAYSIA			
48603		ALOR STAR/KEPALA BATAS	N0613 E10023	15	
48602		BUTTERWORTH/PENANG ISLAND	N0528 E10023	15	
48631		CAMERON HIGHLANDS	N0428 E10123	4750	
48648		FRASERS HILL	N0342 E10544	4260	
48623		IPOH	N0434 E10100	1200	
48615		KOTA BHARU	N0610 E10217	34	
48626		KUALA LIPIS	N0411 E10959	955	
48647		KUALA LUMPUR/SUBANG	N0307 E10139	84	
0		KUALA PAHANG	N0339 E10328	82	
48619		KUALA TRENGGANU	N0520 E10304	165	
48657		KUANTAN	N0346 E10322	63	
48663		MALACCA	N0211 E10315	33	
48674		PENGLING	N0223 E10350	148	
48681		PENANG/BAYAN LEPAS	N0516 E10016	12	
48694		SINGAPORE/KALLANG APT	N0121 E10359	33	
48698		SITIWAN	N0413 E10540	9	

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (F) GROUND	ELEV (F) BAR.	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
0		YENGOLIMA	N0527	E10226	165					A						5										
0		WELLESLEY	N0421	E10929	69											10										
		MOZAMBIQUE																								
64200		ABBAY MEDAE/ABBAINDA	N1116	E10246	6015					L						5										
64241		ADYAH HARA	N0700	E10500	4264					L						5										
64266		ADYAH MOHADOR/GALUT	N1441	E10207	6548					L						4										
64332		AYSHAITA SUNA	N0843	E11238	2702					L						5										
64230		ALGAN SUNA	N0840	E10930	4034					L						5										
64239		CHITTAISAN	N0804	E11429	2134					L						5										
64275		DALAH DIABACAB	N0830	E10424	4023					L						5								1		
64241		DIAGIIH JIBA HILD	N0544	E10617	5587					L						5										
64296		DIVAH CHOYDOIIH #110	N0410	E10907	3168					L						5										
64293		HALVAH USAHII SUNA	N0454	E10216	3435					L						5										
64293		HOBELEHEIH DOND JOTOH	N0750	E10830	UNK											2										
64272		JIPAHLANTA/UL/HADOH	N0744	E09659	5752					L						5										
64218		JIPSALANTA/KSOH	N0890	E09130	4532					L						5										
64267		LAHAIIH HUAYEE	N0832	E11054	2467					L						5										
64290		SUNA SUNA/ENGHAIIH	N0752	E10919	4264					L						5										
64305		NOHHO HAAN SUNA	N0650	E11203	3705					L						5										
64231		NOHOH/ULIAIUTAI	N0457	E10800	5908					L						5										
64304		POHOH HAAN/LAHAA AIIHA	N0719	E11030	3200					L						5										
64294		PUHAH SUNA/CHEHIEH	N0444	E10923	3408					L						5										
64294		TAYH SHANDA/FUOHOZIIT*	N0455	E11000	3907					L						5								6		
64277		TSAHAAH OLOH	N0600	E09630	7044					L						5										
64202		TSIIHOPLIB	N0720	E10120	4025					L						5										
64308		OOUH SUNA/BIAAIIH UAHA*	N0430	E11100	3435					L						5										
64292		HLAAH BAATAH	N0754	E10834	4267					L						5								5		
64212		HLAAH FOOH	N0458	E09728	3071					L						4										
0		HLAAH HUSA SUNA	N0600	E10016	3424					L						5										
		PAKISTAN																								
41705		AAZEH	N2459	E06655	51											4										
41702		BABITAI	N2202	E09922	11											4										
41690		BABAH	N2451	E09913	45					5						10										
41721		CHAHIAIA	N2336	E07804	1442					5																
41658		CHAHAH	N2606	E06627	4311											4										
41760		CHHOH	N2531	E06947	19											10										
41948	32927	CHITTAGONG	N2221	E09150	87					5						10				3		10		2		
41990		COXIS BAZAR	N2134	E09159	4					5						10						10				
41917		HACCA/DHAHIAOLA	N2346	E09723	33					5						10						10		5		
41712		HALBANDIH	N2454	E06416	2763					5						10						10				
41834		HOBA IIPAIL	N2149	E07855	999											4										
0		HAIBH ROAD	N2457	E06700	29					5																
41977		HAPSH	N2536	E07107	6705					5						10						10				
41873		PORT SANDEMAN	N2171	E06417	4014					5						10						10				
41952		RAH ISLAND	10041	E07300	5					5																
41962		HIHPUR64*	N2045	E06737	3909											4										
41702	32402	HYNDSAHAD	N2323	E06825	94											4										
41715		JAGDWADAD	N2037	E06819	104					5						10				4		10				
41918		JESSORE	N2310	E08913	73					5						10										
41704	32402	JIBANI	N2330	E06147	17					5						10				4		10		1		
41696		KALAT	N2902	E06639	6418											4										
41700	32401	KARAPHI	N2454	E06711	78					5			4		4	11				4		10		2	1	
41717		KAIHGHAT	N2228	E06829	239											4										
41718		KHANPUR	N2938	E07201	1078					5						9										
41930		KHULNA	N2748	E08834	19					5						9										
41990		KHYBER	N3210	E07721	610											4										
41944		KOHAT	N3334	E07128	1694					5																
41948		LAHORE	N3133	E07421	702					5						10				4		10		2	5	
41952	32900	LAL HORIAHAT	N2558	E08918	110																					
41742		LAS BELA	N2614	E06619	797											4										
41701		MAURIPUR	N2459	E06657	33					5																
41879		MULTAN	N3012	E07131	418					5						10				4		10				
41873		MURREE	N3319	E07213	7117											5										
41918		NARIANGANJ	N2337	E09030	28											5										
41749		NASHAIBAH	N2613	E06827	174											6										
41710		NOWSHERA	N3400	E07215	1229											5										
41700		PANGAA	N2513	E06435	3177											8										
41748		PAO IBAR	N2431	E06805	155											5										
41799		PARJANG	N2458	E06604	3177											10										
41960		PARACHINAR	N3352	E07004	5672											5										
41930	33702	PESHAWAR	N3401	E07135	1164					5						10				5		10		2	6	
41848		QUETTA	N3010	E06701	5496					5						10				5		10		1		
41970		RAHIMYAR KHAN	N2836	E07307	1074					5						9										
41933		RIVALPIH	N3404	E07135	1693					5						9										
41697		SIBI	N2953	E06733	441											4										
41723		SUKKUR	N2718	E06834	221											4										
41900	32918	SYLHET	N2454	E09133	125											8										
41769		TAMBOOT	N2512	E06945	39											4										
		PHILIPPINES																								
98327	41207	ANGELES LUZON/CLARK A*	N1511	E12039	466		31			J			10	10	10	20	31		10		30	30		24	31	
98324		APARRI	N1822	E12130	13					J						4										
98437		AURORA	N1527	E12731	19					J						4										
0		BACOLOD	N1838	E12259	20					J						4										
98318		BAGUIO LUZON	N1625	E12036	4964					J						15										
98333		BALER	N1546	E12134	70					J						4										
98316		BASA AIR BASE	N1429	E12029	151					J						4										
98115		BASCO BATAN IS.	N2019	E12214	34					J						15						24	24			
98313		BONGHEAR SHOAL	N1137	E12316	29					J						9										
98319		CABANATUAN	N1529	E12058	195					J						4										

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	CONTROL	3	5	8	9	17	18	22	42	46	48	00	01	00	01	01	01	04	05	07	08	09
						REMARKS OMI	PRESENT WX OMI	SKY COVER OMI	PRESENT WX OMI	SURFACE WIND OMI	SURFACE VISIBILITY OMI	SURFACE WIND SPEED OMI	RAINFALL OMI	SNOW DEPTH OMI	SNOW ON GROUND OMI	PRESSURE OMI	DRY BULB TEMP OMI	WET BULB TEMP OMI	DEW POINT OMI									
98748		PABAYAN DE CRO	N0685	E12636	810					4																	
98133		PALAYAN	N1316	E12128	43					4																	
98396		CASIGURAN LUZON	N1617	E12207	13					4						10											
98348		CATBALOGAN	N1149	E12459	16					4																	
98443		CEBU CEBU I.	N1020	E12334	138		19			4						13	13				24	24		3			
98326		CORON QUEZON	N1200	E12012	46					4						4											
98746		COTABATO MINDANAO IS.	N0714	E12415	99					4						9											
98426	41231	CUBI POINT NAS	N1449	E12017	99		29			4	23	9				16											
98638		CUYO IS.	N1051	E12102	13					4						6					24	24					
98851		DABIANGAS	N0687	E12414	49					4																	
98439		DAET LUZON	N1407	E12257	36					4						14											
98329		DAGUPAN LUZON	N1659	E12402	7					4						14											
98746		DAVAO MINDANAO	N0704	E12536	68					4						14					24	24					
98741		DIPOLOG MINDANAO IS.	N0836	E12321	16					4						5											
98642		DUMAGUETE NEGROS IS.	N0918	E12738	20					4						14											
98436		FERNANDO AIR BAS	N1357	E12107	1220					4																	
98743		FRANCISCO BANGBY	N0707	E12539	88					4																	
98556	98123	FUTUNA SARAA NAS	N1197	E12944	13					4			2														
98753		GINATUAN MINDANAO	N0827	E12427	23					4						8											
98637	41216	ILOILO PANAY	N1041	E12234	48					4						14											
98836		JOLO JOLO IS.	N0603	E12100	43					4						14					24	24					
98223	41209	LAOAG LUZON	N1811	E12032	10		19			4			2			14	19				24	24		4			
98446	41212	LEGASPI LUZON	N1308	E12344	62		19			4						14	19				24	24					
0		LOBAMAN	N1422	E12427	4200					4																	
98646	41233	MACTAN ISLE AB	N1019	E12358	43		6			4							3										
98751		MALAYBALAY MINDANAO I.	N0809	E12509	2100					4						14											
98429	41204	MANILA LUZON	N1430	E12100	15		19			4			2			15	19										
99243		MARIATP MARBATE IS.	N1222	E12327	39					4						14											
0		MASBATE	N1223	E12340	1405					4																	
98618	48101	MURATO PRINCESS PALAWAN IS.	N0944	E11844	33					4						13					24	24					
98336		OMBOLO KOMBLON IS.	N1239	E12210	28					4						14											
98338		ORIAS	N1139	E12243	10					4																	
0		SAN FERNANDO	N1639	E12018	13					4																	
0		SAMAR TANGA	N0502	E11944	19					4																	
98428	41224	SANGLEY POINT LUZON	N1430	E12039	11		24			4	23				10	16											
98643		SIMISAN MINDANAO IS.	N0946	E12530	72					4						14					24	24					
98598		TACLOBAN LEYTE	N1132	E12500	69					4			2			14											
98233		TUGUEGARAO	N1737	E12144	60					4																	
98222		VIGAN	N1734	E12023	90					4																	
98446		VIRAC CATANDUANES	N1335	E12419	29											10											
98836	48102	ZAMBOANGA MINDANAO	N0654	E12204	20		19			4						14	19				31	31					
		Trust																									
48812		ABU NAHAL	N3443	E04403	994											8											
48818		AL MASRAAH/MASERAH	N3630	E04049	984											2											
48825		AL LADHIRIYAH/LATTABUIH/LATAKIA	N3532	E03546	62											3											
48807		ALEPPO/HALAB/HALABO/MAGO	N3611	E03713	1484					9						10					3	3		7			
48839		AR RIBIAH/RIBAH	N3557	E03600	910					8						6											
0		BAB TAS	N3511	E03537	1500											6											
48843		BA IR JAMR/DEIR EZZOR	N3521	E04008	899											3					3	3					
48819		BARISIYE	N3539	E03614	2392					9						9					6	6					
48841		DIB	N3246	E03942	1113											6											
48839		HAMAH/HAMA	N3508	E03643	1038					6						6					4	4					
48839		HOMS	N3444	E03643	1739											9											
48812		LATAKIA/LATTABUIH	N3531	E03548	24					8						10					3	3					
48841		PALMYRA	N3436	E03810	1328											6											
48801		RAMTHA/IRBID/HARTHA/IRBIL/RAMTHA	N3702	E03611	1493					6						9											
0		T-2	N3422	E04009	1785											8											
0		T-3	N3532	E03846	1266											8											
0		T-4	N3634	E03747	1824											8											
		Thailand																									
48441		ARANYAPRATHET/ARANYAPRATHET	N1324	E10233	144					8						17											
0		BAN NONG HEI	N1713	E10406	932					8																	
0		BAN TA KHLI	N1514	E10017	102					8																	
48351		BANGKOK	N0900	E09910	10					8						16					3	7	7				
48443		BANGKOK	N1324	E10034	95		17			8			10	10	10	17	15			8	8	0	8		11		
48403		CHAIYAPHUM/JAIYABHUM	N1548	E10136	969					8						17											
48448		CHANTHABURI	N1235	E10207	10					8						10											
48317		CHIANGRAI	N1947	E09959	1027		17			8			9	9	9	17	10			7	7		7	7		9	
48363		CHIANGRAI	N1959	E09950	1369					8						18											
48419		CHUMPHURI/CHUMPHON	N1332	E10959	28											18											
48517		CHUMPHONI/CHUMPHON	N1027	E09915	16											17											
48438	41222	KOH KUANG/SATTAHIP	N1339	E10054	16		14			8			10	10	10	10	12				3				1		
48429		KOH SIR	N1334	E09948	16					8						17											
48452		KANCHANABURI	N1401	E09932	82					8						16											
48348		KANTANA	N0724	E09931	10											16											
48501		KHLONG YAI/KLONG-YAI	N1107	E10253	13											16											
48381		KHON KAEN/KHON-KAEN	N1626	E10231	514					8						16											
48468		KO SICHANG	N1309	E10049	30											7											
0		KOPE RATHET	N1432	E10059	170					8																	
0		KORAT	N1459	E10234	648		19		13	8							0										
48328		LAMPANG	N1815	E09930	787					8						13											
48343		LOEI	N1726	E10130	615					8						11											
48438		LOPBURI	N1448	E10027	44											17											
48396		MAE HONGSON	N1918	E09729	711					8						11											
48433		MAE SARIANG	N1810	E09756	1020					8						11											
48379		MAE SOT/MAE-SOD	N1646	E09837	616					8						16											
48363		MAHASARAKHAM/MAHARAKAM	N1636	E10644	453					8						15											
48367	41520	NAKHON PHANOM	N1722	E10439	594		6	5		8						11	8										
48431	41019	NAKHON RATCHASIMA/NAKHON-RUJSIMA	N1458	E10207	596								2	2	2	17	7				8	8					
48436		NAKHON SAWAN/NAKORN-SAWAN	N1540	E10040	92											17											
48352		NAKHON SI THAMMARAT/NAKHON	N0829	E09958	19					8						16											

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WBD NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	MAP REFERENCE POINT
0		NAM PHONG	N1639	E10725	730
48931		NAM	N1847	E10947	669
48983		NAPATHINAT/NARADHIWAS	N0626	E10126	13
48943		NONG KHAI	N1751	E10744	937
48940		PATTANI	N0600	E10109	10
48[illegible]		PHITCHABUN/DEFORMERS	N1653	E10100	374
48978		PHITSANULOK	N1656	E10016	164
48930		PHRAP	N1810	E10600	319
48964		PHRAPT	N0750	E09924	10
48963		PHRAPT/RAI KHAD/HIN LUK	N0[illegible]	E09919	6
48997		PUK [illegible]/SRI [illegible]	N1832	E10033	10
48930		RACHINBURI	N1618	E10110	79
48900		RACHKHAP KHIRIKHAN	N1146	E09948	14
48932		RANONG	N0956	E09938	113
48965		RBT PT	N1603	E10541	939
48946		SAKON NAKHON/SRIDL NAKHON	N1710	E10609	929
0		SARA BURI	N1634	E10053	105
48927		SATTAHIP	N1320	E10033	199
48960		SONGKHLA	N0711	E10037	13
48923		SUPHANBURI/SUBANBURI	N1630	E09959	79
48932		SURIN/SURINDRA	N1693	E10329	676
48970		TAK	N1649	E09907	377
48944	41012	TAKHLI/TOKLI/TAKALI AB	N1514	E10017	104
48967		TRANG	N0730	E09948	39
	41020	U TAPHAO	N1241	E10101	69
48907	41017	UBON RATCHATHANI	N1515	E10632	9959
48946	41018	UDON THANI/UDORN RTAFB	N1726	E10346	584
48981		UTTARADIT	N1737	E10600	287
		VIETNAM -NORTH OF 17°-			
48010		BACHAM	N2209	E10966	633
0		BAO HA	N2212	E10621	282
48000		CAM RANG	N2246	E10619	863
48002		CHAPA	N2231	E10649	1301
48044		CUA DAT	N1917	E10619	420
48048		NONG HET	N1709	E10636	19
48034		NOT TOM	N2019	E10749	230
48023		NAI[illegible]/PT AB	N2049	E10643	13
48020		NANC[illegible]	N2103	E10732	29
48046		NATI[illegible]	N1831	E10554	15
48030		PARADOX	N2151	E10643	869
48063		LAO CAI/LAO CAI HIGHWAY	N2136	E10157	330
48050		NONCAY	N2151	E10719	35
48023		NAMBINH	N2026	E10612	13
48027		NONGAYS	N2037	E10709	361
48020		PHU LIEN	N2048	E10638	370
48021		THAINGUYEN	N2134	E10930	134
48040		THANHHOA	N1948	E10547	16
48049		VINH	N1840	E10[illegible]	29
		VIETNAM -SOUTH OF 17°-			
	[illegible]	AN KHE	N1947	E10603	69
48047	41021	AN KHE AAF	[illegible]	E10644	1365
48916		AN-KHTEH -CANAU-/QUAN LONG	N0910	E10519	10
48078	41025	AN KE THUET	N1241	E10607	1963
48900	41009	BIEN HOA AB/BIENHOA	N1058	E10649	48
	41016	BINH THUY	N1009	E10543	9
48064		BLAO/DAO-LOC	N1178	E10766	2792
	41060	CA LI[illegible]	N1041	E10658	123
48007	41013	CAM RANH BAY AB	N1158	E10914	87
	41004	CAMP EAGLE	N1629	E10730	1005
0	41058	CAMP EVANS LZ	N1633	E10723	78
	41005	CAMP SALLY	N1631	E10720	61
49011	41007	CAN THO	N1002	E10547	10
48066	41014	CHU LAI	N1512	E10642	29
49010		CPT. KEH/POLO COMPOUND	N0642	E10633	16
	41023	DA CHI	N1059	E10624	46
48018	41003	DA NANG	N1602	E10611	21
48061	41058	DAP TB	N1448	E10749	1078
48001	41033	DALAT/CAM-LY	N1157	E10824	4458
48091	41045	DAU TIENG	N1116	E10619	59
	41032	DI AN/TAN-LY AFLD	N1054	E10644	106
48003		DJIRIMO/DIRINH	N1134	E10604	2108
48049	41031	DONG HA	N1649	E10709	33
	41042	DONG TAM	N1038	E10618	26
0	41035	HEADING MOUNTAIN AFS	N1350	E10809	2504
0	41054	HUE PHU	N1440	E10639	33
48068		HUONG TA/BATTLE	N1638	E11137	38
48092		HUU DUAN/QUAN LOI	N1140	E10630	464
48052	41044	HUE/PHU BAI	N1626	E10741	33
48050		KHE SANH	N1638	E10643	1378
0	41064	KIENTHIN AI	C1621	E10801	1016
	41013	KY HA	N1552	E10642	
0	41030	LAI KHE AAF	N1112	E10637	129
	41036	LONG BIAO AB	N1049	E10713	828
	41032	LONG THANH AFLD	N1048	E10659	149
0		LONG XUYEN	N1019	E10625	11
0	41061	LZ ENGLISH CNT 3	N1428	E10900	168
48046	41024	MARBLE MOUNTAIN	N1603	E10919	20
48077	41010	NHA TRANG	N1216	E10912	29
	41043	PAKSE	N1554	E10737	1779
48067		PHAN-THIET/PHAN-RI	N1056	E10900	33
48099	41022	PHAN RANG	N1136	E10857	111
0	41033	PHU CAT	N1351	E10903	111

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV OF PORT
	41062	PAU CUM	N1954	E10348	4300
	41026	PAU LUI AAF	N1100	E10642	100
48917		PAU NUPC/DUONG-BONG	N1913	E10338	10
	41029	PHUOC VINH AAF	N1116	E10447	160
48806	41005	PLEIKU	N1359	E10604	2620
48892	41057	QUIN LHI	N1142	E10859	495
48863		QUANG NGAI	N1508	E10907	30
48851	41056	QUANG TRI	N1644	E10711	23
48870	41011	QUI NHON AB	N1346	E10913	28
41937		RACH GIA	N1000	E10503	10
48906	41008	SAIGON/TAN SON NHUT AFF	N1049	E10639	62
48913	43091	SOC TRANG	09936	E10958	16
	41045	TAY AN	N1033	E10824	36
	41946	TAY NINH AAF	N1120	E10609	38
48894		TIEN SHA/TIENTSHA	N1606	E10918	509
48919	41034	TUY HOA AB	N1314	E10859	43
48918	41905	VINH LONG AAF	01413	E10937	3
48904	41044	VUNG TAU AB	N1072	E10700	13
		SOUTHEAST ASIAN COASTAL AREAS			
		AREA 1 TONKIN GULF	N1993	E10820	
		AREA 2 DA NANG	N1567	E10965	
		AREA 3 NHA TRANG	N1203	E11030	
		AREA 4 SAIGON	04903	E10703	
		AREA 5 SOUTHEAST SIDE OF STAT	00903	E10307	
		AREA 6 NORTH GULF OF SIAM	N1290	E10100	
		AREA 7 SOUTHWEST GULF OF SIAM	04936	E10100	
		AREA 8 AUBLA TRENGGANU	09103	E10604	
		AREA 9 ENDAU	02206	E10459	
		AREA 10 SOUTH MALACCA STRAIT	00241	E10336	
		AREA 11 NORTH MALACCA STRAIT	00600	E09900	
		AREA 12 VICTORIA POINT	N1640	E09648	
		AREA 13 RANGOON	01403	E09603	
		AREA 14 PAGODA POINT	N1107	E09935	

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV GR RWAY
		AFRICA			
		ALGERIA			
60020		ADRAR	N2753	W00017	694
60360		AFLOU	N3407	E02707	4367
60340		AIN SEFRA	N3245	E00036	3325
60420	33033	AL ASNAM/ORLEANSVILLE	N3610	E00119	731
60390		ALGER/PAR EL DJEDA	N3643	E00313	82
60360	33034	BISKRA/BLIDE	N3650	E00549	18
60035		AZOUZA	N3156	E00105	918
60371		BECHAR/COLOMB	N3135	W00219	2346
60400		BENI ABBES	N3008	W00210	1634
60325	33006	BISKRA	N3446	E00444	787
60405		BLIDA	N3630	E00241	918
60344		BOU-SAADA	N3514	W00048	387
60419		CONSTANTINE-AIN	N3617	E00457	2108
60370		DJANET	N2433	E00928	3609
60355		DJELFA	N3438	E00327	3740
60340		EL GOLEA	N3035	E00259	1293
60359		EL OUED	N3320	E00647	807
60321		FORT GOURAUD	N2515	E00915	1868
60408		FT FLATTERS	N2558	E00630	1161
60404		GHARDAIA/NOUMERAT	N3223	E00369	1490
		HAMMAGUIR	N3054	W00303	2494
60381		HASSI MESSAOUD	N3141	E00609	668
60446		ILLIZI/FT POLIGNAC	N2630	E00820	1834
60411		IN AMENAS/ZARZAITINE	N2603	E00938	1544
60378		IN AMGUEL	N2344	E00600	3582
		IN EKER	N2606	E00937	3161
60430		IN SALAH	N2712	E00228	797
60379		LA REGHAIA-HELMA	N3343	E00324	115
60365		TAMANRASET	N2250	E00255	2577
60303		LARTIGUE	N2333	W00032	371
60340		LE KREIDER	N3540	E00405	3369
		MASCARA	N3424	E00127	2699
60348		MECHERIA	N3333	W00213	1968
		MERIDJA	N3134	E00257	2756
60390	33031	MIRAMLA SERIA	N3527	W00036	295
60375		MOSELLE	N3456	E00114	1138
60309		MUNERIS	N3139	E00426	468
60417		OUED KEDDARA	N3543	E00155	1137
60360		OUEZZAN	N3641	E00317	925
60365		OUTIF	N3611	E00420	3260
60393		OUTAA/PHILIPPEVILLE	N3652	E00637	37
60403		OUED TLEA	N3227	W00315	1932
60440		TAMANRASSET	N2247	E00521	4321
60446	33044	TELERGMA	N3627	E00621	2484
60427		TENIMOUN	N2918	E00617	1027
60450	12001	TIARET/ VILLE	N3542	E00600	1319
60331		TLEMCEN/ECREAFA	N3501	W00127	937
60333		TOUGGOURT/EL OUE*	N3300	E00604	228
		BAHAMAS			
78183		ANDROSTOWN	2612N	7811W	6?
78134		FREEPORT	2629N	7811E	64
78160		FARMERS	2323N	7511W	2761
78278		NASSAU	2502N	7716W	4278
78292		NORMAN	2378N	7626W	2456
78278		HENRIQUE DE CARVALHO	1049S	7025W	3368
83369		LEOPOLDVILLE	5122S	6913E	10
64160		LUANDA	8048S	6913E	230
64240		LUSAKA	1124S	6918E	4193
64215		MALANGE	9048S	6916E	3768
64457		MAVINGA	1135S	6922E	3268
65472		MOCAMEDES	1312S	6815W	148
64162		MUSAKE	1676S	6915E	4000
65318		NOVA LISBOA	1246S	6945E	5582
		PEREIRA BARCA	1755S	6854E	3510
64260		PORTO AMBOIM	1046S	6943E	10
64290		SA DA BANDEIRA	1425S	6955E	5767
64410		SERPA PINTO	1446S	6817E	4408
64320		SILVA PORTO	1222S	6816E	3574
64190		TOTO	1078S	6818E	1772
66469		VILA BOCAGE	1146S	6815W	3684
		CAMEROON			
64931		DOUALA	0429N	6926E	2128
64931		GETARO-JYA	0956N	6916E	2568
64978		KAMPO	0922N	6900E	87
64918		MOUELA	0849N	6900E	43
64860		NGAOUNDERE	0918N	6917E	760
64893		YOUNDE	0853N	6931E	2070
64971		OBIDI	0833N	6900E	30
64922		BANGUI-POINT	0430N	6731E	1368
64922		BRAZZAVILLE	0491N	6915E	5667
64911		POINT-NOIRE	0448N	6856E	2991
64891		SALAO	0102N	6918E	1300
64912		TIPO	0460N	6900E	170
64958		YANGANO	0834N	6911E	2472
64900		YOKO	0533N	6913E	3379
		CENTRAL AFRICAN REPUBLIC			

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WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
	BANGASSOU MET	N04 47	E022 48	1786
	BANGUI	N04 22	E018 35	1275
	BERBERATI	N04 15	E015 47	1949
	BOUAR	N05 56	E015 13	3365
	BOUCA	N06 29	E018 18	1903
	M BELE	N06 13	E020 39	1969
	CHAD			
	ABECHE	N13 51	E020 51	1788
	BONGOR	N12 17	E015 23	1076
	FAYA LARGEAU	N17 56	E019 06	771
	FORT ARCHAMBAULT	N12 48	E018 24	1148
	FORT LAMY	N12 07	E014 02	984
	MOUSSORO	N12 11	E016 41	1476
	MORONI	N11 42	E043 16	1404
	COMORO ISLANDS			
67005	DZAOUDZI MAYOTTE	S12 48	E045 14	39
	CONGO/BRAZZAVILLE			
	BRAZZAVILLE/MAYA MAYA	S04 15	E015 17	1043
	NJAMENA	S01 31	E015 49	2015
	POINTE NOIRE	S04 11	E012 0C	1125
	BANGUI	S01 50	E018 00	1279
	IMFONDO	N11 36	E121 04	1073
	M POYA	I2 57	E014 13	1037
	MOUYONDZI	S04 09	E013 57	1070
	NUPIO	N01 37	E011 03	1114
70198	POINTE NOIRE	S04 47	E011 52	56
	LOBITO	S12 21	E013 21	1749
	SQUAMP	N03 04	E012 03	1089
	BANGKOK			
	KOTONOU	N06 2	E002 26	23
	LAMBI	N11 08	E000 25	961
	NATITINGOU	N10 1	E001 23	1509
	PARAKOU/BORGOU	N09 21	E002 38	1220
	SAVE	N08 0	E002 26	999
	SCHAROUBU	N08 52	E000 23	1069
	DEMOCRATIC REPUBLIC OF THE CONG			
	BLOEMFONTEIN/BALENI NORTH	S29 5	E026 21	4519
	BANGUI	S04 00	E018 25	1
	KOUNDJILA BUNGUDI	S03 19	E020 19	2560
	LUKOLELA/COSTERMANVILLE	S00 53	E016 51	1091
	MOANDA	S01 58	E013 13	4710
	MOTA	N02 47	E012 47	1484
71201	PLETSAERTVILLE/LUBUMBASHI	S11 39	E027 28	4183
	FORA	S09 46	E031 18	3020
	KAMINA BASE	S08 27	E025 04	3190
	KAMINA CITY	S08 44	E025 19	3969
	KINDU	S02 57	E025 59	1581
	KITONA BASE	S05 54	E015 24	452
	KOLWEZI	S10 43	E025 30	4918
70101	LEOPOLDVILLE/KINSHASA/N DJILI	S04 23	E015 27	984
	LIPENGE	N09 38	E031 38	1295
	LULUABOURG	S06 13	E023 29	2190
	MATARI	S05 57	E031 20	1263
	MBANDAKA/COQUILHATVILLE	N00 03	E018 17	1079
	MBOLO	I 46	E031 56	951
	STANLEYVILLE/KISANGANI	N00 31	E025 11	1391
	MBUJIMAYA BUAKA (BUSHU)	S06 09	E023 59	2569
	KINSHASA			
6	NDJILI-TERMA D VILR	N04 23	E015 31	3812
30303	ABBIE ABAKE	N09 16	E007 44	2743
	ABOMEY	N07 11	E001 59	2053
31302	AGADES	N16 57	E007 59	1935
31403	AGAO	N13 0	E004 26	46
30401	AIRE BASE	N09 35	E001 52	3613
	AKPE	N06 16	E003 33	6573
	ALAGO MESA	N08 02	E003 09	6165
31309	ALESSAO	N15 56	E009 28	28
30303	ALEXANDRIA	N09 17	E009 47	4757
	FRENCH SOMALILAND			
	ALMIRA	N11 56	E043 22	1460
	DJIBOUTI	N11 33	E042 09	24
	TADJOURA	N11 47	E042 53	33
	BANGUI			
	BITAM	N02 05	E011 0	1969
	FRANCEVILLE	S01 37	E013 35	1424
	LAMBARENE	S00 42	E010 12	362
	LIBREVILLE	N00 2	E009 25	37
	MAYUMBA	S03 25	E010 39	151
	MITZIC	N00 47	E011 32	1969
	NDOLIA	S01 52	E011 0	295
	PORT GENTIL	S00 3	E008 43	10

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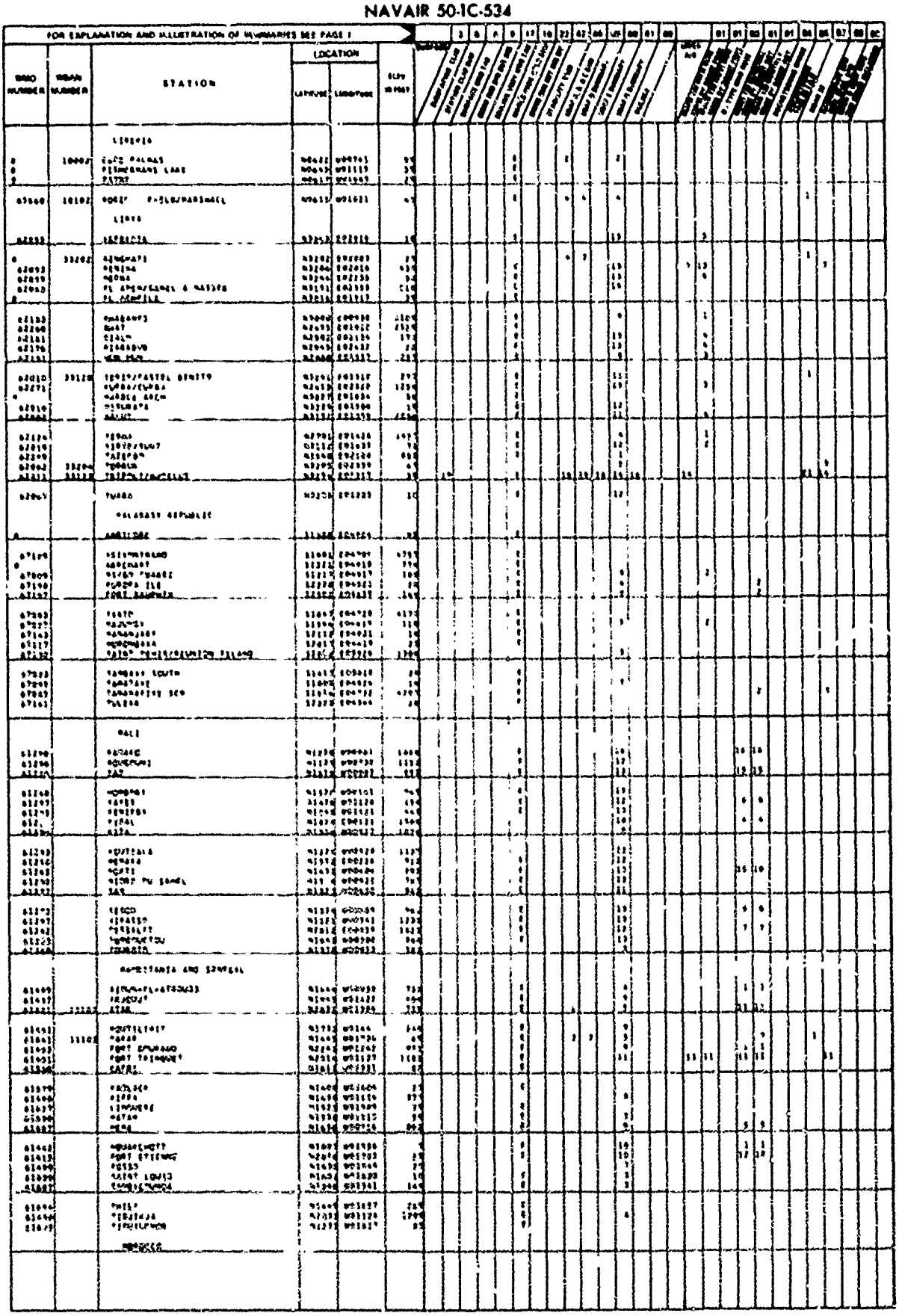
WBAN NUMBER	WMAR NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GROUND)
		CAPODIA			
61721		PENNSYLVANIA	N1192	W01449	10
61721		HUNTSVILLE	N1321	W01640	83
		ARENA			
03491	10001	ACCRA	N0536	W00011	203
03419		ADA	N0544	E00038	38
03418		AD	N0540	E00030	334
03437		ADIE-APACHI	N0748	W00004	219
03442		KUMASI	N0643	W00130	96
03403		NAVRONGO	N1054	W00105	843
23441		VALTPONE	N0412	W00154	19
03447		TAMOUADI	N0638	W00143	79
03418		TEMALE	N0934	W00052	484
		GUINEA			
61816		KONE	N1058	W0146	161
61832		ORANAH	N0934	W011.7	164
61829		KINMAN	N1023	W00019	1253
61809		LAPE	N1127	W01112	3444
61847		NATENTA	N0854	W0-025	2867
61838		NANDY	N1327	W01205	1578
61847		[illegible]	N0749	W0 042	1624
		IVORY COAST			
03388		ABIDJA	N0518	W04022	179
03399		KOUARA	N0744	W00102	1184
03		DIMBOKRO	N0638	W00402	262
03398		FERKESSEDOUGOU	N0955	W 0112	1079
03397		KABORO	N0648	W00337	74
03368		MAN	N0724	W00722	1706
03328		MOSSAM	N0538	W00731	1120
03 348		PORT BOUET/ABIDJAN	N0519	W 0356	23
03396		SASSANDRA	N0459	W00409	40
03392		TABOU	N0448	W00723	18
		KENYA, TANZANIA AND ZANZIBAR			
63674		ARUA	N03	E03033	4204
63739		NAIROBI	S01	E03647	5115
63729		NAIROBI	S01	E03647	5330
63844		NAS JI SALAAM	S0650	E03913	46
63842		MOMBASA	S0418	E03934	3672
63739		NAIROBI	S0114	E03651	5330
63844		KISUMU	S0031	E03917	6398
63734		NAIROBI AFT	S0002	E03715	5761
		EQUATOR	S0001	E01015	9967
63678		PORT PORTAL	N0536	E03857	5930
63723		GARISSA	S0028	E03928	410
63630		MOYALE	N0304	E03620	3670
63847		ISIOLO	S0136	E03742	4687
63649		KITALE	N0147	E03731	3511
63642		JINJA	S0019	E03311	3846
63736		KABALE	S0117	E02735	6130
63801		KISUMU	S0041	E03738	3763
63708		KITALE	N019	E03709	6781
63773		LAMU	S0216	E04056	98
63679		LIMOI	S1008	E03442	1270
63812		LODWAR	N0303	E03535	1405
63845		NAIROBI/WILSON	S0132	E03650	77
63736		NAIRO	S0119	E03657	5010
63760		NAKURU	S0213	E03735	3270
63626		NANYUK	N0019	E03652	7160
63702		NARAIS	S0001	E03639	6030
63822		NAIRO	S0018	E03710	5609
63878		NOMULIA	S0040	E03707	1850
63818		NONG	S0010	E03611	1150
63864		NORTHING	S0041	E03743	1980
63833		NORUTO	N0238	E03636	6610
63730		NYERI	S0022	E03720	5720
63648		NYIALE	N0034	E03703	3695
63811		NYAMIRA	S0010	E03611	8750
63735		NYERI	S0130	E03710	3780
63796		NYAHURU	S0218	E03623	3760
63769		NAIROBI/EMBAKASI AFT	S0118	E03654	5545
63714		NAIROBI	S0018	E03648	5400
63640		NANYUKI	N0001	E03701	6380
63737		NAROK	S0150	E03551	6200
		[illegible]	S0027	E03653	6350
63813		TUNE	S0405	E03743	2860
63842		KERETO	S1047	E03835	9780
63832		TAVOSA	S0509	E03739	3670
63864		TAVOY	S0939	E03906	1870
63849		TAVETA	N0303	E03819	3240
63752		VOI	S0338	E 3934	1840
63671		WAJIR	N0144	E04004	370
63742		WILSON	S0117	E03654	5535
63679		ZAMZIBAR	S0613	E03713	58


FOR EXPLANATION AND ILLUSTRATION OF NUMBERS SEE PAGE 1
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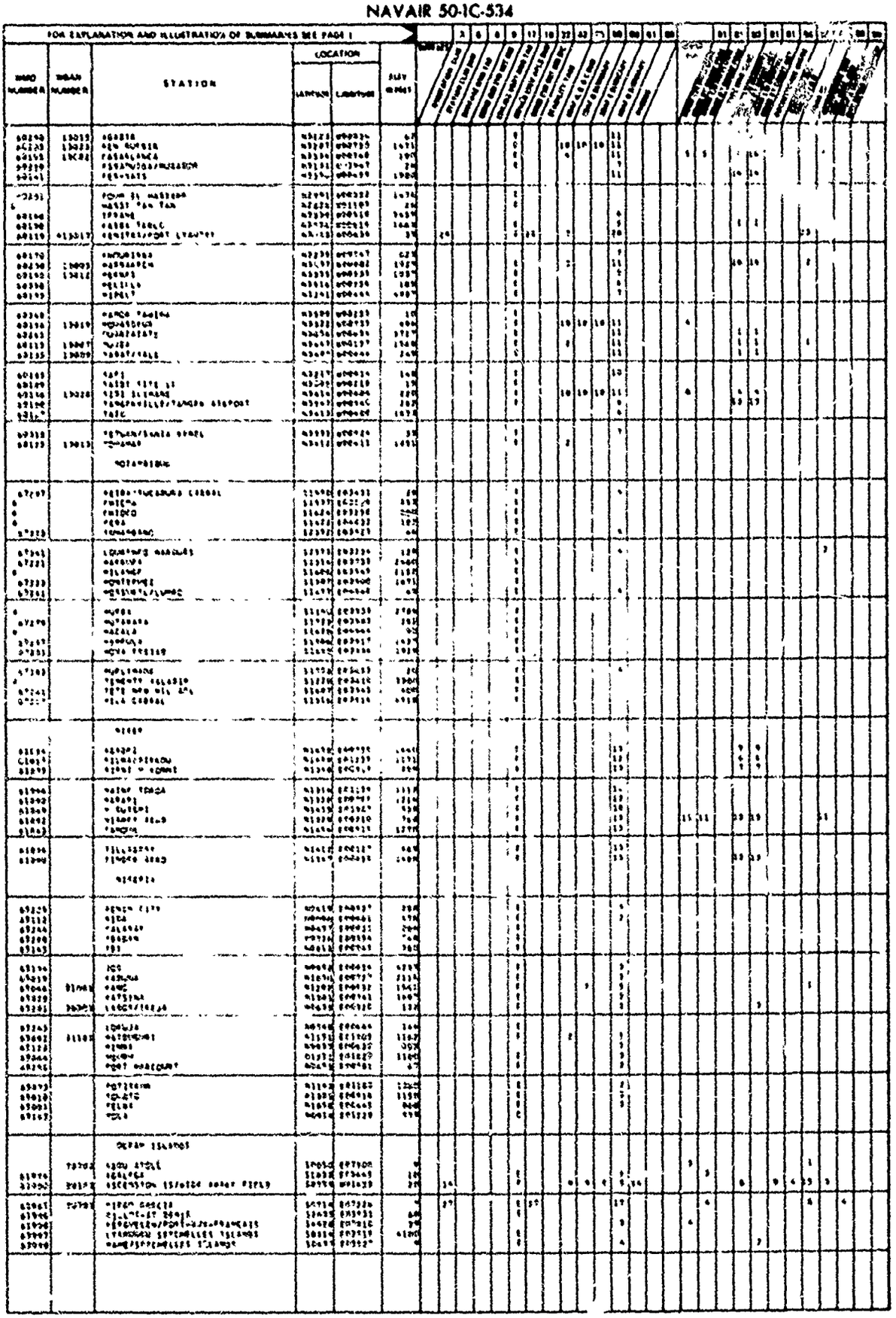
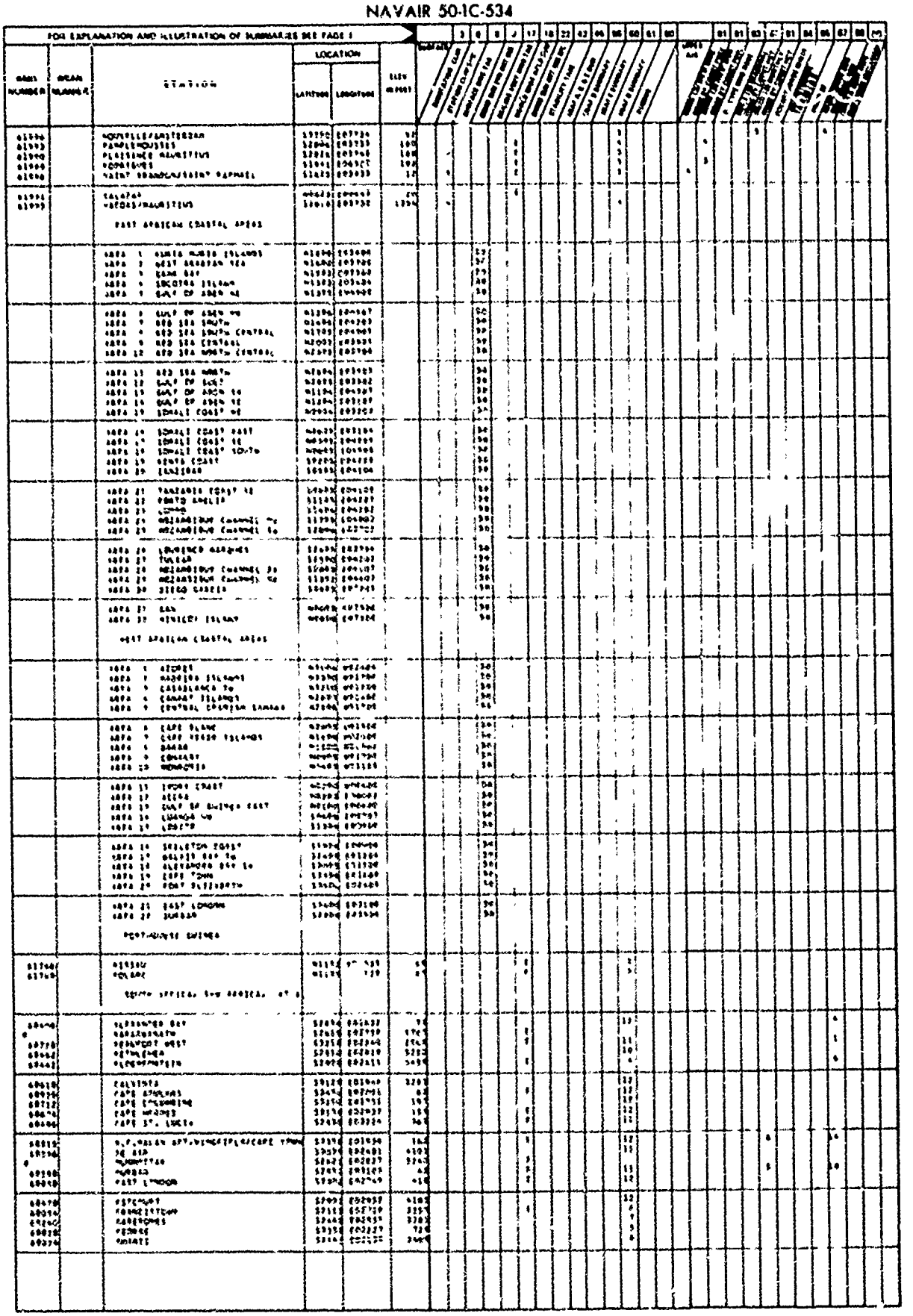
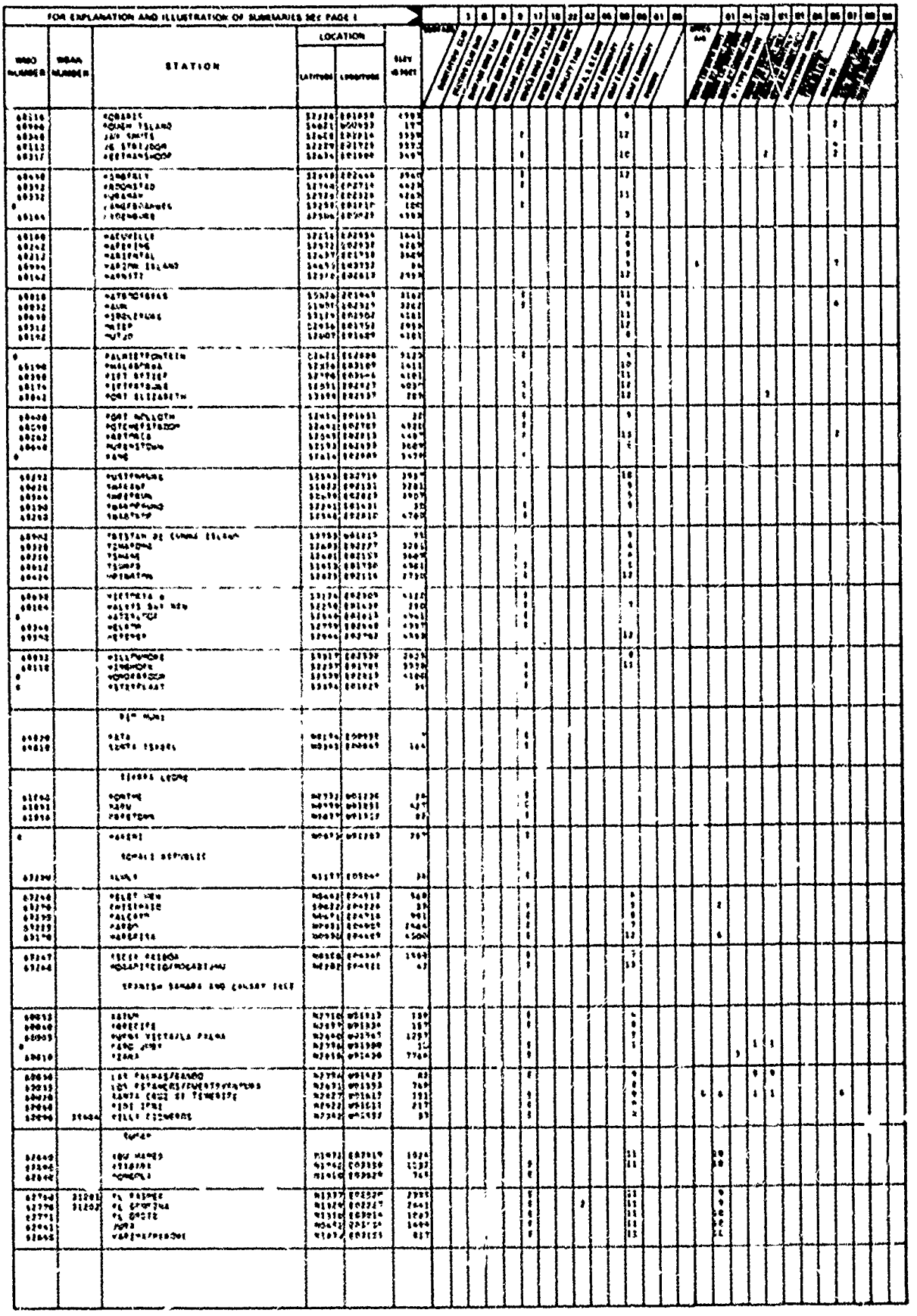
ELEV IN FEET



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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
62736		[illegible]	[illegible]	[illegible]	[illegible]
62737	31303	KHARTOUM	[illegible]	[illegible]	[illegible]
62772		WINTI	[illegible]	[illegible]	[illegible]
62860		MALAKAL	[illegible]	[illegible]	[illegible]
62861		PORT SUDAN	[illegible]	[illegible]	[illegible]
62890		WADI HALFA	[illegible]	[illegible]	[illegible]
62892		WAW	[illegible]	[illegible]	[illegible]
		TOGO			
65336		ATAKPAME	[illegible]	[illegible]	[illegible]
65337		LOME	[illegible]	[illegible]	[illegible]
65352		NIAMEY	[illegible]	[illegible]	[illegible]
65361		TOKOTA	[illegible]	[illegible]	[illegible]
		TUNISIA			
65716		BIZERTE	[illegible]	[illegible]	[illegible]
65749		GABES ISLANDS/JERBA/DJELLITA	[illegible]	[illegible]	[illegible]
65763		GABES	[illegible]	[illegible]	[illegible]
65765		GAFSA	[illegible]	[illegible]	[illegible]
65767		KAIROUAN	[illegible]	[illegible]	[illegible]
65779		KEBILI	[illegible]	[illegible]	[illegible]
65790		KEF	[illegible]	[illegible]	[illegible]
65791		TOZEUR EL AOUA	[illegible]	[illegible]	[illegible]
65797	33369	TUNIS CARTHAGE	[illegible]	[illegible]	[illegible]
		UNITED ARAB REPUBLIC -EGYPT-			
0		ABU-KUIR	[illegible]	[illegible]	[illegible]
62518	32498	ALEXANDRIA/MAZARITA	[illegible]	[illegible]	[illegible]
62519		ASWAN	[illegible]	[illegible]	[illegible]
62520		BAHARIYA	[illegible]	[illegible]	[illegible]
62523		BILBEIS	[illegible]	[illegible]	[illegible]
0		BIR TIFASAFA WEH	[illegible]	[illegible]	[illegible]
62530	33368	CAIRO/HELIOPOLIS	[illegible]	[illegible]	[illegible]
0		DARIALIS	[illegible]	[illegible]	[illegible]
62532		FAYOUM	[illegible]	[illegible]	[illegible]
0		HARAK	[illegible]	[illegible]	[illegible]
0		HURGHADA	[illegible]	[illegible]	[illegible]
0		KHARGA OASIS	[illegible]	[illegible]	[illegible]
62536		KL ABIYA	[illegible]	[illegible]	[illegible]
62561		KL BILTRAN/PORTSUDAN	[illegible]	[illegible]	[illegible]
62569		KL GHAZIA	[illegible]	[illegible]	[illegible]
0		KL MARSAS	[illegible]	[illegible]	[illegible]
0		KL SHAIB	[illegible]	[illegible]	[illegible]
62573		MARSAS	[illegible]	[illegible]	[illegible]
0		MINIA	[illegible]	[illegible]	[illegible]
62590		SAFAGA/HURGHADA	[illegible]	[illegible]	[illegible]
0		SOHAG (NEW)	[illegible]	[illegible]	[illegible]
62602		WADI HALFA NEW	[illegible]	[illegible]	[illegible]
0		WADI SAIDNA	[illegible]	[illegible]	[illegible]
0		ASWAN	[illegible]	[illegible]	[illegible]
0		DARAW	[illegible]	[illegible]	[illegible]
0		KOM OMBO	[illegible]	[illegible]	[illegible]
62605	32362	LUXOR	[illegible]	[illegible]	[illegible]
62565		MAHALLA/KASIYA	[illegible]	[illegible]	[illegible]
62566	33295	MATRUH/MERSA MATRUH	[illegible]	[illegible]	[illegible]
62567		MINYA	[illegible]	[illegible]	[illegible]
62593		PORT FUAD/EL GANTA	[illegible]	[illegible]	[illegible]
62603		SHIBIN/KOM OMBO	[illegible]	[illegible]	[illegible]
0		SHUBRA	[illegible]	[illegible]	[illegible]
0		SIDI BARRANI	[illegible]	[illegible]	[illegible]
0		SIDI JABER	[illegible]	[illegible]	[illegible]
0		SUEZ	[illegible]	[illegible]	[illegible]
62540		KALUBA/HELIOPOLIS	[illegible]	[illegible]	[illegible]
62617		KIMA	[illegible]	[illegible]	[illegible]
62618		KURE	[illegible]	[illegible]	[illegible]
62648		KANTA	[illegible]	[illegible]	[illegible]
62659		TOR/EL TOR	[illegible]	[illegible]	[illegible]
0		WADI SIMAL	[illegible]	[illegible]	[illegible]
		SUPPLY POINTS			
65318		ADEN/STEAMSHIP	[illegible]	[illegible]	[illegible]
65316		ADRIA	[illegible]	[illegible]	[illegible]
65317		AGRI	[illegible]	[illegible]	[illegible]
65351		AGRA N SAIDNA	[illegible]	[illegible]	[illegible]
65352		ALMAZ	[illegible]	[illegible]	[illegible]
65353		ALMAZ/MAHSAM	[illegible]	[illegible]	[illegible]
		ALMAZ/ALEXANDRIA AND ALEPPO			
0-765		ALEXANDRIA	[illegible]	[illegible]	[illegible]
67692		ALEPPO	[illegible]	[illegible]	[illegible]
67732		DAMASCUS	[illegible]	[illegible]	[illegible]
67301		PORT SAID/SUEZ/SUEZPATA	[illegible]	[illegible]	[illegible]
0		ASHTOD	[illegible]	[illegible]	[illegible]
67615		ASKARA	[illegible]	[illegible]	[illegible]
67597		ASKARA/KOM OMBO	[illegible]	[illegible]	[illegible]
67763		ASHTOD/STORE	[illegible]	[illegible]	[illegible]
67661		ASTORA	[illegible]	[illegible]	[illegible]
67633		ASTOR	[illegible]	[illegible]	[illegible]
67761		ASTOR	[illegible]	[illegible]	[illegible]
67776		ASTOR/ASTOR	[illegible]	[illegible]	[illegible]
67817		ASTORIA/ASTOR	[illegible]	[illegible]	[illegible]

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WBO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GROUND)
		NORTH AMERICA			
		CANADA			
		ALBERTA			
71122	25112	CALGARY	N51111	W11934	3388
72072	25110	CALGARY	N51106	W11401	3557
0		CAMP BARNWELL	N51350	W11854	2170
71120	25119	CLUE LAKE	N57429	W11317	1784
0	94111	EDMONTON	N53038	W11408	2078
71123	25107	EDMONTON INTL	N53319	W11339	2373
0	25108	EDMONTON	N53032	W11123	775
	25104	FAIRVIEW	N56428	W11806	2067
71932	25105	FORT MCMURRAY	N56439	W11113	1211
71940	25131	FORT VERMILION	N58324	W11356	810
71945	25115	GRANDE PRAIRIE	N55311	W11853	2195
0		HENDERSON	N53259	W11327	2695
72060	25116	JASPER	N52553	W11804	3629
71931	25123	LAC LA BICHE	N54645	W11201	1972
72076	94108	LETHBRIDGE	N49338	W11350	3047
0		LINDBERGH FARM	N53101	W11420	1765
72072	25116	MEDICINE HAT	N50041	W11043	2351
0	25106	NANTON	N50300	W11329	2250
71068	25103	PEACE RIVER	N56114	W11726	1072
72070	25119	PENHOLD	N52211	W11334	2964
74126		PRIMROSE LAKE	N54408	W11049	2303
		RED DEER	N52216	W11358	2968
71926	25121	ROCKY MOUNTAIN HOUSE	N52232	W11455	3338
74128	25122	SMOKY LAKE	N54014	W11511	1424
72071	25123	STRATHCONA	N53321	W11430	2031
74060	25127	WABAMUN	N53021	W11439	1919
		BRITISH COLUMBIA			
74138	24288	ABBOTSFORD	N49021	W12322	194
74112	25213	ATNCROFT	N50042	W12119	1402
72994	25214	BEATTON RIVER	N55339	W12123	2788
72093	25215	BULL HARBOR	N50536	W12527	15
	25201	CAMP BLUEBERRY	N55420	W12154	2078
0	94141	CAMPBELL RIVER	N49577	W12518	335
0	94180	CASTLEGAR	N49329	W11749	1654
0	94118	CASTLEGAR	N49318	W11732	1424
0	24292	CHILLIWACK	N49102	W12157	12
0	25202	COAL RIVER	N59402	W12748	1662
72093	24292	COMOX	N49439	W12436	19
0	94112	CRANBROOK	N49338	W11346	2491
72084	94113	CRESCENT VALLEY	N49527	W11736	2000
74046	25260	CRYSTAL CREEK	N55345	W12015	2284
0	25210	DOE CREEK	N55104	W12212	1974
72065	25210	FORT NELSON	N58214	W12233	1229
72963	25232	FORT ST. JOHN	N56136	W12044	2280
74116	24294	HOPE	N49228	W12126	154
72097	25224	KAMLOOPS	N50538	W12343	1158
0	94139	KELOWNA	N49568	W11901	1468
72098	94114	KIMBERLEY	N49440	W11547	3065
74098	25223	KLEENA KLEENE	N51528	W12459	4950
72099	25244	LANGARA	N54134	W13302	134
	25304	LOG CABIN	N59114	W13459	3265
72091	25222	LYTTON	N50137	W12134	974
0	25245	MASSET	N54042	W13208	10
72098	24296	MAYSIMS	N49598	W12332	98
0	94145	NELSON	N49330	W11717	1768
0	24295	PACHENA POINT	N48515	W12504	115
72099	94116	PENTICTON	N49327	W11906	1129
74139	25225	PORT HARDY	N50641	W12718	95
0	94224	POWELL RIVER	N49508	W12439	459
72096	25200	PRINCE GEORGE	N53531	W12254	2180
72098	25222	PRINCE RUPERT	N54311	W13027	111
72096	24299	PRINCETON	N49228	W12031	2298
74132	25226	QUESNEL	N53004	W12231	1708
74131	25246	SANDSPIT	N53116	W13140	14
72947	25226	SMITH RIVER	N59543	W12620	1598
72998	25225	SOINTULA	N50648	W12711	1718
72958	24298	VADA	N49224	W11924	1918
72951	25227	TERRACE	N54516	W12835	714
	25283	TEXAS LAKE	N57472	W12447	1304
	25204	TRUTCH	N55548	W12254	2012
72092	24287	VANCOUVER INTL	N49312	W12310	22
72990	24297	VICTORIA INTL	N48439	W12326	63
74134	25247	WILLIAMS LAKE	N52512	W12233	2068
		LABRADOR			
72010	15361	CARTWRIGHT	N53401	W05700	36
72010	15615	HOPE LAKE	N55448	W06049	1712
0	17610	LABLPA	N52524	W06431	2AB
72012	15612	NAIN	N56329	W06632	1739
		NEWFOUNDLAND			
0	14991	BONAVISTA	N48551	W05357	134
72971	25001	BUCHANS	N48522	W09154	1154
72543	94021	CAPE SPEAR	N46334	W05928	1272
72913	15993	CHURCHILL FALLS	N53343	W09405	1150
72953	25304	GANDER	N48156	W10503	496

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WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	NORMALS	3	6	9	17	18	22	42	46	00	01	00	01	01	03	01	01	04	05	07	08	09
						Mean Daily Max	Extreme Max Temp	Extreme Min Temp	Mean Daily Min Temp	Degree Days Base 65	Degree Days Base 50	Precipitation	Mean Evaporation	Mean Sunshine	Mean Temperature	Mean Dewpoint	Mean Humidity	Heavy Fog	Thunderstorms	Ice Pellets	Hail	Glaze	Duststorm	Sandstorm	Low Level Wind Shear	Smoke, Haze	Blowing Snow	Tornado
74078	13903	PAPE LAKE	N5922	W08723	883					6			2														
0	25801	PLIN PLOW	N5940	W10156	997					6																	
72911	13903	MILLOR	N5921	W09646	656					6			2														
72856	13705	RIPLY	N5937	W09703	755					6						17											
74078	25025	LYNN LAKE	N5952	W10104	1162					6																	
0	13994	[illegible]	N5814	W09935	1272					6																	
0		PETERBOROUGH	N4414	W07821	625					6																	
0	94760	PICTON	N4399	W07700	165					6																	
72891	94912	POINTE	N4693	W09917	965					6						10											
72868	25814	RIVERS	N5001	W10019	1357					6																	
72867	25806	THE PAS	N5336	W10101	894					6			2			17			2								
74079	13919	THOMPSON	N5548	W09731	706					6																	
0		VIBORA	N4693	W10035	1445					6																	
72887	13994	WABOWDEN	N5654	W09939	764					6			2														
72892		WINNIPEG INTL	N4654	W09716	760		19			6						10											
		NEW BRUNSWICK																									
0	14626	BLISSVILLE	N4737	W06433	76					6																	
72717	14631	CHATHAM	N4701	W06427	112					6						10											
72700	14640	FREDERICTON	N4592	W06632	69					6																	
72723	14629	MONCTON	N4607	W06441	232					6																	
0	14641	PENFIELD BIRM	N4520	W06441	240					6																	
72629	14663	SAINT JOHN	N4519	W06533	358					6																	
		NEWFOUNDLAND																									
72837	14308	ARGENTIA	N4718	W05458	98		29			8	22		8	10	10					10			22	16	16		
72839	13907	BELLE ISLE	N5155	W05523	428					6																	
72804	14311	GUINSHT	N4651	W05430	969					6																	
74101	13301	CAPE HARRISTON	N5344	W05919	69								9		6				3								
72890	14918	CAPE RACE	N4639	W05304	95																						
0		FARMER HARBOR	N4632	W05933	69					6																	
72823	14581	FARMER	N4657	W05634	282					6			6	11					3								
72816	14681	FORTE BAY	N5314	W06075	144		12			6			13	13	13		19		13	3			16	13			
72822	14614	GRAND BANK	N4706	W05946	23					6																	
	13968	HEARTS	N4913	W06231	32								2						2								
72836	14414	LARGE ISLAND	N4734	W05907	13					6										3							
	13420	LARGE BAY	N4914	W06232	65								7	7	7												
74106	14903	SAINT JOHNS AFB	N4738	W05242	53								4		2				3				7				
74107	14919	ST ANDREWS	N4745	W05758	26					6																	
72819	14103	STEPHENVILLE/HARBOR GRA	N4931	W05934	66								9	10	10					17			22	13			
72801	14906	TOPSAY	N4738	W05242	465					6		9	11														
74103	14707	WESLEYVILLE	N4909	W05539	94								2														
		WORTHWEST TERRITORIES																									
74083	26314	ALSHIMER	N6139	W13729	3178					6																	
0	26317	MALARIE	N6934	W13590	32					6													1				
74082	13641	ILORT	N6756	W14235	209					6			5							5			10				
	17962	WRITTE BAY	N7108	W11810	38																		5				
0		RASSELL BEACH	N6838	W10411	92					6																	
72936	14903	PARRY LAKE	N6618	W09650	35					6						10				5			1				
0		REAR ISLAND	N6431	W09106	30					6																	
74096	14640	ROBINSTON	N6733	W08603	29					6																	
72939	26691	RYDOM BAY	N6446	W10405	550					6																	
72925	26903	SANDPIPER BAY	N6606	W10980	93					6																	
74094	14605	CAPE DYER	N6439	W06134	1711					6																	
74093	14692	CAPE HOOPER	N6827	W06649	43					6																	
72940	27232	CAPE PARRY	N7210	W12401	102					6																	
0	26178	CAPE STRONG	N6451	W11439	52					6																	
72910	14924	CHESTERFIELD	N6331	W09048	18					6																	
74095	26294	CLINTON POINT	N6955	W12344	49					6																	
74098	17961	CLYDE	N7027	W08633	28					6			3						2		3		9				
72938	26107	COPPERMINE	N6711	W11507	28					6													1				
72915	13903	CORAL HARBOUR	N6411	W08321	193					6			2										3				
72946	26219	NANISH	N6436	W13029	1063					6																	
74092	16795	PEACE LAKES	N6838	W07114	650					6																	
	16901	PEELING POINT	N6134	W09403	35					6			2														
72917	18903	PLOVER SOUND	N6618	W09151	8					6			6			2				6			13				
72948	26218	PORT SIMPSON	N6149	W12119	934					6						10											
72916	26196	PORT SMITH	N6600	W11159	945					6						10							2				
72920	16603	PRINCE OF WAL BAY	N6534	W08634	68		9			6			8	9		8		5	7				9				
72927	16902	QUADMAN POINT	N6618	W09948	43					6																	
74081	16899	RAIL BEACH	N6644	W08819	22					6																	
72939	26168	RAE RIVER	N6812	W11548	965					6																	
72947	26127	REPVIK	N6911	W11329	73					6						12											
74076	27901	ISACHSEN	N7844	W10837	105					6			3							9			12				
74071	26693	JERMY LIND	N6939	W10144	65					6																	
72947	26196	LADY FRANKLIN	N6838	W11512	33					6																	
	14683	LAKE HARBOUR	N6512	W06436	44								2						2								
74091	16795	LORDSTAFF BLUFF	N6653	W07709	43																						
74088	16895	MACKAR INLET	N6614	W08944	174					6																	
0	16795	MID BAFFIN	N6437	W07118	480					6																	
74072	27181	MOULD BAY	N7631	W11918	53					6			8							4			12				
72936	26195	NICHOLSON	N6911	W12037	8					6																	
74063	26202	NORMAN WELLS	N6521	W12646	196					6						19				3			2				
72930	16701	NOTTINGHAM ISLAND	N6433	W07735	10					6																	
0	16502	PANGNIRTUNG ISLAND	N6730	W06221	130					6			10														
72929	17903	RESOLUTE BAY	N7440	W09455	92					6			6			10				6			13				
72923	16648	RESOLUTION ISLAND	N6118	W06633	10					6																	
74065	16716	SPERRY	N6902	W07408	153					6																	
72911	16904	SHEPHERD BAY	N6846	W09926	150					6																	
0	26892	SNOWBALL POINT	N6815	W13719	128					6																	
72949	26394	TUKTOYAKTUK	N6926	W13303	18					6																	
72943	26225	WATSON LAKE	N6506	W12649	2339					6																	
0	16903	WEST WOLVILLE	N6818	W08641	114					6																	

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CNO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV in FEET	3	5	6	8	17	18	32	42	46	50	60	61	80	81	82	83	84	85	87	88	90
0	26208	WHITELEY	N4312	W12325	493					C																
72936	26110	YELLOWKNIFE	N6226	W11427	674					C																
		NOVA SCOTIA																								
0	14033	ACUM SPCUN	N4452	W06709	47					C																
74307	14036	KEPE[illegible]	N4459	W06435	82					C																
74303	14073	HALIFAX INTL	N4453	W06331	474		17			C						10										
0	14038	LIVERPOOL	N4403	W06443	10					C																
72600	14002	SABLE ISLAND	N4356	W06002	29					C						10										
0	14032	SHUBENACADIE BASAS	N4458	W06532	167					C						13										
0	14044	ST PAUL ISLAND	N4712	W06000	104					C																
72707	14048	SYDNEY	N4610	W06003	203					C						13										
72603	14047	YARMOUTH	N4354	W06405	140					C																
		ONTARIO																								
72641	13001	ARNSTRONG	N5017	W08054	1078					C																
0		BELLEVILLE	N4412	W07710	320					C																
0		BIG DAM	N5500	W09224	42					C																
0		BONNECHERE	N4540	W07736	391					C																
0	94844	BRANTFORD	N4308	W08021	819					C																
0		BROCKVILLE	N4436	W07444	396					C																
0		BATHURST	N4532	W07715	560					C																
0		BATTLEMOUTH	N4532	W07752	337					C																
0	94796	CAMP BORDEN	N4416	W07936	760					C																
0		CAMP PETAWAWA	N4552	W07716	465					C																
0		CANADA	N5502	W08913	104					C																
0		CAMP	N4528	W07452	367					C																
72632	94861	CHATHAM	N4316	W08131	622					C																
0		CHATHAM	N4218	W08109	662					C																
0		CORN	N5452	W08323	93					C																
0	94747	CORNWALLEN	N4305	W07428	231					C																
72729	94793	KAPUSKA	N4542	W07951	604					C																
0		KAPUSKASING	N4426	W08147	734					C																
0		KENORA	N4404	W09712	1369					C																
72733	94883	KING CITY	N4353	W07934	830					C																
0	94838	KINGSTON AIR PARK	N4414	W07727	1105					C																
0	94796	KAMILTON	N4510	W07933	776					C																
72831	14099	KAPUSKASING	N4927	W08220	767					C																
72890	14969	KENORA	N4948	W09422	1369					C																
72629	94799	KILLISLOE	N4534	W07723	371					C																
72630	94753	KINGSTON	N4413	W07636	305					C																
72769	94834	LAKEHEAD	N4822	W08919	633					C						10										
72849	13865	LONDONDERRY HOUSE	N5214	W08433	647					C																
72693	94903	LONDON	N4302	W08109	912					C																
0		MAPLE	N4351	W07932	750					C																
72896	13825	MOOSONEE	N5116	W08239	34					C																
72612	94704	NAPANEE	N4458	W07719	923					C																
0	13804	NAPIKA	N5011	W08649	1053					C																
0		NIAGARA FALLS	N4306	W07936	550					C																
72791	94789	NORTH BAY	N4621	W07941	1214		17			C						17										
0		NIPAWA	N4559	W07854	638					C																
72628	94702	OTTAWA	N4519	W07547	374		27			C						28										
0	13863	PARRY	N5901	W08919	620					C																
0	94848	PARRY SOUND	N4519	W08000	633					C																
0		PELEE ISLAND	N4146	W08248	571					C																
0	94789	PORTAGE	N4857	W07438	366					C																
0	14863	RAMORE	N4908	W08218	1064					C																
0	94834	RAT 4 PORTAGE	N4837	W09436	633					C																
72642	13856	RETURN LOOKOUT	N5407	W09134	1784					C																
0	94728	ST CATHARINES	N4311	W07910	769					C																
0		ST THOMAS	N4746	W08157	778					C																
72825	94715	STRATFORD	N4311	W08118	619					C						9										
72598	94828	SUDBURY	N4637	W08048	1142					C																
0		TILLSONBURG	N4252	W08041	883					C																
72730	94831	TIMMINS	N4826	W08122	967					C																
72629	94781	TORONTO INTERNAT	N4341	W07927	569		17			C						17										
72821	94715	TORONTO	N4340	W07922	283					C																
72858	13889	TRENT LOCK	N4455	W07841	728					C																
0	94818	WATERLOO WELLING	N4327	W08023	1031					C																
0		WELLAND	N4259	W07917	592					C																
72833	94889	WIARTON	N4441	W08126	724					C																
72910	94810	WINDSOR	N4210	W08257	624					C																
0	13837	WINISK	N5513	W08707	20					C																
		PRINCE EDWARD ISLAND																								
72706	14638	CHARLOTTETOWN	N4617	W06309	181					C																
72702	14645	SUMMERSIDE	N4624	W06349	19					C																
		QUEBEC																								
0		ALMA	N4831	W07129	445					C																
72915	14418	ANTICOSTI	N4928	W06421	12					C																
72713	94792	BAGOTVILLE	N4820	W07357	1204					C				9	9	17										
72707	14627	BATE COMEAU	N5112	W06816	1170					C																
72904	13404	BAIE POINT REYNOLD	N5119	W06632	1203					C																
0		BARTIERVILLE	N4531	W07542	1205					C																
0		BAGOT	N4756	W07105	1291					C																
0	94796	CHARLEVOIX	N4730	W07319	977					C																
0	94748	COLBERT	N4618	W07218	450					C																
0	14834	COWANSVILLE	N4512	W07244	1054					C																
72906	13945	FORT CHIMO	N5804	W06818	1177					C				6								3		6		
74149	14865	FOX RIVER	N5123	W06459	196					C																
0		GASPE	N4550	W06741	340					C																

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WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
72969	13731	MAPLE KNOLL	N3951 W07746	93
0		HALBERMAN	N4056 W08429	1005
0	14509	HARRINGTON HARBOUR	N3932 W07930	23
0		JAMES LAKE	N3115 W08606	1894
0		LA HACALA	N4029 W07447	823
0	94775	LA FONDE	N4723 W07240	348
0		LAC A LA TORTUE	N4637 W07238	424
0		LACHUTE	N4538 W07427	231
74108	13629	MANITOUWADGE	N4839 W08658	1326
72722	94734	MARIBORO	N4622 W07639	957
0	13792	MARVIN LAKE	N4938 W07932	1069
0		MATANE	N4851 W06733	74
74782	13603	MECOTINA	N5158 W06233	1720
0	94782	MEGANTIC	N4539 W07652	1362
0	13604	MINGAN	N5017 W08429	71
72718	14839	MONT JOLI	N4836 W06812	178
72847	94733	MONTREAL INTL	N4528 W07345	114
72813	13612	NATASHQUAN	N5012 W06149	18
72836	13773	NITCHEQUON	N4912 W07054	1695
72726	94797	PAGENT	N4793 W07437	1465
72907	13704	PORT HARRISON	N4827 W07000	648
72714	94708	RIMOUSKI	N4628 W07123	239
0		RIMOUSKI	N4628 W06831	82
72715	14462	RIVIERE DU LOUP	N4748 W06939	428
72710	94792	ROBERVAL	N4831 W07319	168
0	94731	ROUYN	N4813 W07635	989
72811	13613	SEPT-ILES	N5013 W06619	180
72810	94785	SHAWINIGAN	N4634 W07345	734
0		ST HONORE	N4831 W07109	961
0	94712	ST HUBERT	N4531 W07329	90
0		ST JEAN	N4518 W07317	138
0		ST JOVITE	N4639 W07439	790
0	14681	STE ANNE DES M	N4507 W06637	72
0	94709	TROIS-RIVIERES	N4621 W07241	167
72713	94730	VAL-D'OR	N4803 W07747	1164
		SASKATCHEWAN		
72961	29006	ASSINIBOIA	N4915 W10235	2033
74129	29129	COLD LAKE	N5426 W11017	1754
72862	26993	ESTEVAN	N4904 W10900	1693
0		KING BY LAC	N4901 W10724	494
72868	29067	MOOSE JAW JUNCTION	N5019 W10229	1211
72930	29099	PRINCE ALBERT	N5302 W10211	1069
72932	29018	LA RONGE	N5509 W10429	1227
0	29127	LLOYDMINSTER	N5318 W10959	2129
74133	29032	MEADOW LAKE	N5430 W10824	1535
72864	29018	MOOSE JAW	N5302 W10633	1903
72876	29018	NORTH BATTLEFORD	N5246 W10619	1798
72869	29018	PRINCE ALBERT	N5311 W10641	1425
72863	29019	REGINA	N5026 W10440	1884
72846	29017	SASKATOON	N5210 W10641	1637
0		SMITH FIELD	N5217 W10731	1635
72870	29018	SWIFT CURRENT	N5017 W10741	2468
74076		WEYBURN CITY	N4926 W10258	1868
74138	29017	WYNYARD	N5115 W10337	1559
		YUKON		
	26968	FISH LAKE	N6638 W13209	2965
	26967	LANCHERIA	N6603 W13016	2774
72964	26916	WHITEHORSE	N6642 W13507	2298
		UNITED STATES		
		ALABAMA		
0		ALEXANDER CITY/T C RUSSELL	N3255 W08858	665
0		ANDALUSIA MUN	N3138 W08643	335
	13878	ANNISTON	N3338 W08558	612
0		BIRMINGHAM/MUNICIPAL	N3336 W08635	774
		BAY MINETTE	N3057 W08754	266
72228	13878	BIRMINGHAM	N3334 W08649	630
0		BOAZ/GUNTER MUN	N3410 W08618	980
72229	03881	CENTREVILLE	N3255 W08709	224
0		CLANTON/BRAGG FLD	N3231 W08637	909
	13816	COURTLAND	N3440 W08720	578
0		CULLMAN/FOLSOM FLD	N3414 W08651	960
0		DECATUR/PRYOR FLD	N3436 W08636	593
0		DEMOPOLIS/BOYKIN FLD	N3233 W08737	113
	13895	DOTHAN	N3113 W08512	364
0		ELMORE	N3233 W08619	196
	13885	FAYETTEVILLE FAA	N3503 W08652	297
	03858	FORT PAYNE/CAIRNS AAF/FLOYD AP	N3457 W08536	908
0		GADSDEN MUN	N3358 W08600	564
		GENEVA	N3151 W08531	118
		GREENVILLE	N3155 W08638	649
		HALEYVILLE	N3416 W08737	955
0		HAMILTON/MARION COUNTY	N3448 W08725	660
72223	13894	HUNTSVILLE/MADISON COUNTY	N3438 W08639	644
0		JACKSONVILLE/REILLY FL	N3350 W08547	732
72229	13894	MOBILE/BATES FIELD	N3641 W08816	21
72226	13836	MOBILE/BROOKLEY AFB	N3637 W08804	39
	13895	MONTGOMERY	N3218 W08624	201
	13894	MUSCLE SHOALS	N3446 W08737	549
		NAPIERVILLE	N3235 W08629	870
		PECK FIELD	N3330 W08519	749

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	3	6	8	9	17	18	22	42	46	80	84	81	88	SURFACE AND	01	01	03	01	01	04	06	07	08	09
		SELMA/CRAIG AFB																											
		TALLADEGA MUN																											
		TUSCALOOSA/VAN DE GRAFF																											
		YUMA/ROGERS																											
		UNIONTOWN/CRAIG AFB AUX																											
		VALLEY HEAD																											
		ALASKA																											
		ADAK NAS																											
		ALEKA PT																											
		ANCHETKA ISLAND																											
		ANCHORAGE INT ARP																											
		ANCHORAGE/ELMENDORF AFB																											
		ANIAK																											
		ARGETTE ISLAND																											
		ATTU ALEUTIAN ISLANDS NAS																											
		BARTER ISLAND																											
		BEECHEY POINT/ELIKTOK AFS																											
		BETHEL																											
		BETTLES																											
		BIG DELTA/FORT GREELY																											
		CAPE LISBURNE																											
		CAPE NEWENHAM																											
		CAPE ROMANZOF																											
		CAPE SARICHEF																											
		CHIBIAGH ISLAND NAS																											
		CIRCLE																											
		COLD BAY																											
		CORDOVA																											
		COSNA SEAPLANE																											
		DILLINGHAM MUN																											
		DUTCH HARBOR NS																											
		EAGLE																											
		FAIRBANKS INTERNATIONAL AFB																											
		FAIRBANKS INT ARP																											
		FLAMAN ISLAND AFS																											
		FORT YUKON																											
		GALENA																											
		GAMBELL																											
		GULKANA																											
		HOLTHUS																											
		HOMER MUN																											
		HOOLY BAY																											
		HOPE																											
		ILIAMNA																											
		KALTAG																											
		KENAI																											
		KING SALMON																											
		KIVALINA ISLAND																											
		KOTZEBUE																											
		KOYUK																											
		LITTLE PORT WALTER																											
		LONELY AFS																											
		MCGRATH																											
		MIDDLETON ISLAND AFS																											
		MINCHUMINA																											
		MOSES POINT																											
		NANWALEK																											
		NOME																											
		NORTHEAST CAPE																											
		NORTHWAY																											
		NUNIVAK ISLAND																											
		OLNEY																											
		PETERSBURG																											
		PLATTINUM																											
		POINT BARROW																											
		POINT HOPE																											
		POINT LAY/ARS																											
		PORT CLARENCE																											
		PORT HEIDEN																											
		PRUDHOE BAY																											
		PUVIRNITUQ																											
		SAINT MATTHEW ISLAND																											
		SAINT PAUL ISLAND																											
		SEWARD																											
		SHEMYA ISLAND																											
		SITKA																											
		SITKA/BAR CAS																											
		SOLOMON NO 1																											
		SPARREVOHN																											
		TANANA																											

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	NWSN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (FEET)	NORMALS 3	6	8	9	17	18	22	42	46	50	60	61	80	CLIMATIC AIDS	81	82	83	84	85	86	87	88	89
70291	24226	TALKEETNA	62219	150005	356				0																			
70178	26304	TANANA	65322	152112	239				0			2																
	26836	TATALINA	62253	150937	986		1		0			11	6	11		15												
70117	22634	TEN MILE/CAPT PRINCE OF WALES	65534	168738	222				0			10	10	10		17												
70162	026340	UMIAT MAS	69021	152050	360				0						2	7												
70405	25621	UMIAT	69322	150734	133				0			6								6				6				
70297	26627	UNALAKLEET	63534	160047	14	22			0			9	6			21				2								
	26641	UNIVERSITY EXP STA	64451	147327	433	23																						
70173	26332	UTOPIA CREEK/HOUSE/STATION MTN	66480	153942	1295		20	1		0		12	17	9		19												
70175	26642	VALDEZ MUN	61108	146614	112		1		5	7		2	5															
70038	27302	WAINWRIGHT/AFS	70437	159932	68				0				9															
70116	26618	WALES	65537	168029	18	3						2								2								
70287	27338	WAINWELL	65628	153223	37	23																						
70361	25902	YAKUTAT	59531	139540	32		27			0		6	10			10				2				66				
		ALASKAN COASTAL MARINE AREAS																										
		AREA 1 VANCOUVER	49330	123030																								
		AREA 2 QUEEN CHARLOTTE	49430	131230																								
		AREA 3 SITKA	49730	135600																								
		AREA 4 LORDSBURG	49230	136300																								
		AREA 5 SEWARD	49330	139430																								
		AREA 6 KODIAK	49600	153400																								
		AREA 7 UNIMAK	49430	166030																								
		AREA 8 QUEEN HARBOR	49300	169035																								
		AREA 9 NOME	49530	165700																								
		AREA 10 ATTU	49000	173600																								
		AREA 11 BARTER	49730	160130																								
		AREA 12 ST PAUL	49700	169930																								
		AREA 13 ST PAUL LOOP	49700	170000																								
		AREA 14 NUNIVAK	49830	169900																								
		AREA 15 ST MATTHEW	49630	172430																								
		AREA 16 ST LAWRENCE	49430	169000																								
		AREA 17 CAPE LISBURNE	49300	166000																								
		AREA 18 BARROW	71300	156700																								
		ARIZONA																										
	23101	AJO	32227	112331	1-0	22						4																
		PETRIFIED	34441	111032	1200	23																						
		CASA GRANDE RURAL AR	33300	111137	1410	23																						
	23104	CHANDLER/WILLIAMS AFB	33218	111104	1369		26			0		10	10	12		13												
		CHILDS	33421	111143	2695	23																						
		CHINLE	36009	109033	5538	20																						
		CLIFTON	33302	109017	3468	23																						
	23140	COOLIDGE/FLORENCE	32934	111329	1324				0																			
0		DEER VALLEY	33343	112207	1479				0			0																
	23001	DOUGLAS/DOUGLAS	31328	109037	4115	22		0			0	5	3															
0		FALCON FLD	33328	111143	1325						0																	
72379	03168	FLAGSTAFF	35308	111146	6992		17				0		23		10													
72373	03124	FORT HUACHUCA	31339	110020	4732		14				0		7	7	7	14				4				28				
0		GATEWAY	33312	111100	2290						0																	
	031-0	GILA BEND AF AUX	32928	112743	736		0				0					0												
0		GLEN CANYON/PAGE	36918	111128	4293						0																	
	03136	GLOBE MUN	33323	110947	3330						0																	
0		GOODYEAR AF AUX	33314	111134	1179						0																	
72379	03133	GRAND CANYON NATL	35197	112200	6612						0																	
	23156	HINCHAN	33515	111357	3450						0		2															
	03119	LAKEFORK AAF	34292	111424	4500						0																	
0		LAKE HAVASU CITY	34427	114221	480						0																	
		LITCHFIELD PARK	33330	112227	1021	23																						
0		LUKE AF AUX NO 9 AND 11	33344	112232	1180						0																	
0		LUKE AF AUX 1	33346	112231	1130						0																	
0		LUKE AF AUX 6	33327	112231	1046						0																	
0		LUKE AF AUX 7	33252	112250	1293						0																	
	23115	LUKE/GLENDALE	33329	112135	1082						0																	
		MESA FALCON/FALCON	33328	111137	1735	23																						
0		MORELLE INTL	33328	111054	1735						0																	
0		PAGE/MUNICIPAL CARLOS	36948	111139	3460						0																	
0		PAPAGO AAF	33328	111158	1290						0																	
0		PARKER	34216	114117	420	23					0																	
	03139	PARSON	33414	112128	6902		1																					
		PETRIFIED FOREST N	34544	109052	5440	23																						
72378	23183	PHOENIX WBAN	33271	112101	1115																							
	23111	PHOENIX/LUKE AFB	33328	112223	1090		27		5	0		19	9	9	11	23								28				
72372	23184	PRESCOTT WBAN	34346	112223	5043	23	19	5		0		5	9	9	11	23								28				
0		RAPTOR	33232	110939	3170					0																		
		SAN CARLOS RESERVOIR	33310	111031	3525	23				0																		
	03181	SNOW LAKE MUN	34418	109059	6410					0																		
72374	23184	SUPERIOR MUN APT WBAN	33203	111037	2544		22			0		15				22								26	35			
72376	023184	SUPERIOR/SATTIS MOUNTAIN AFS	33218	111039	2654		24	5		0			22	27	22	27				2				28	8			
		SUPER-WBAN	33218	111144	2061	23																						
	03191	WILLIAMS MUN	35218	112133	6760					0																		
		WINDOW ROCK	35534	109003	6750					0																		
72374	23194	WINSLOW	35352	111044	4868		29			0	6	9	6											28				
		WORTHY MR	33533	112132	4950	23																						
72369	03123	YUMA PROVING GROUNDS	32292	114424	220		34	11		0	30	5	0	0	0	22								9	64	14		
		ARKANSAS																										
0		ALPENA ORAN	35424	093127	710					0																		
		ARKADELPHIA 2 N	34100	093003	340	23																						
		BATESVILLE MUN	35452	091535	465	23				0																		
	03913	BLYTHEVILLE MUN	35524	090417	1290					0																		
	13814	BLYTHEVILLE AFB	35594	090057	264		20	7		0		5	5	5		20								2				

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GROUND) (FEET)	3	9	8	9	17	18	22	42	46	50	80	81	85	31	81	82	81	84	86	87	88	89
		CALIFORNIA																									
74536	23239	ALAMEDA NAS	N3746	W12228	21					0	33	5				23											
0		ANGELS	N3801	W12007	4200					0																	
0	24283	ARCATA	N4053	W12404	217					0		7	9	9	9									1			
	23226	AUBURN	N3853	W12105	1525	24				0																	
72384	23193	BAKERSFIELD/MEADOWS FLD	N3525	W11903	491		27	3		0		14	13														
0		BANNING MUN	N3355	W11151	2184					0																	
	93210	BEALE AFB/MARYSVILLE	N3908	W12126	124		4	3		0		4	4	4		9											
	23130	BELMONT	N3316	W11731	1598		4	3		0																	
		BERKELEY	N3352	W12215	344	24																					
0		BIGGS/LAKE AAF	N3917	W12137	2330					0																	
72488	23157	BISHOP	N3722	W11822	4122		27	3				5	23		10												
	23225	BLUE CANYON	N3917	W12042	3284		27			0						16											
	23119	BOLTON	N3337	W11647	305	24						11															
		BORON	N3501	W11800	3570	24																					
72288	23192	BURBANK/GLENDALE-PASADENA AIRPORT	N3412	W11821	778		10			10	0	5												1			
0		CAMBRIA	N3534	W11055	0						0																
0		CAMPBELL	N3718	W12159	1084						0																
		CAMP PENDLETON MCAF	N3318	W11722	43		17				0	13															
0		CAPLISO/PALOMAR	N3308	W11719	328						0																
0	93203	CHICO	N3947	W12151	292						0																
74612	093104	CHINA LAKE INYOKERN NAF	N3541	W11741	2238		29	3			0	13	10	3										9			
0		CHINO	N3358	W11739	649						0													99			
	23154	CHULA VISTA BORREGO FLD NAAS	N3237	W11638	535	24		3			0																
	23232	COALINGA	N3608	W12131	672	24					0																
0		COLUSA	N3912	W12201	2133						0																
0	23234	CONCORD/BUCHANAN FLD	N3758	W12202	23		9				0		9														
	24284	CRESCENT CITY/JACK MCNAMARA FLD	N4146	W12418	56						0																
	23258	CROWS LANDING NAF	N3723	W12107	185						0																
	23161	DAGGETT	N3451	W11647	1929	24		9			0	10															
		DAVIS MONTHAN AFB FARM	N3533	W11546	80	24					0																
0		DELANO/MEAN LEGETT	N3550	W11914	516						0																
	23228	DOWNIE SUMMIT	N3901	W12025	7164						0		9	23	23		2										
72381	23114	EDWARDS AFB/MUROC	N3456	W11752	2310		31	3			0		9	23	23		31		10					17	7		
72291	023194	EL CENTRO NAAS	N3248	W11560	42			3		9	0	16	9				14							8			
		EL MONTE	N3404	W11802	296																			4			
	93193	EL TORO MCAS	N3338	W11741	383		29	7			0	19															
		ELECTRA POWER HOUSE	N3828	W12040	715	24					0																
72384	24213	EUREKA MUNICIPAL FLD	N4048	W12313	72		27																				
74510	23208	FAIRFIELD/TRAVIS AFB	N3822	W12156	73		27				0		9	10	10	12	29										
		FAIRMONT	N3440	W11826	2360	24					0																
0		FALL RIVER MILLS	N4102	W12129	3323																						
		FORT BIDWELL	N4151	W12040	4449	24					0			2													
72398	23113	FORT BRAGG	N3926	W12349	737																						
	93217	FORT ORD/MARINA AAF	N3641	W12148	144		11				0		9	3	9	5	10										
72389	023198	FRESNO	N3646	W11943	332		29				0		9	10	13	10	23										
0		FULLERTON MUN	N3353	W11759	98						0																
0		GARBERVILLE	N4054	W12054	3418						0																
0		GIANT ROCK	N3459	W11622	2823						0																
	23110	GILROY	N3700	W12135	483			3					8														
		GRAND CANYON	N3614	W11803	6606	24																					
		HANFORD	N3619	W11937	3825	24																					
0		HAWTHORNE MUN	N3851	W11842	4						0																
		HAYFIELD PUMPING PL	N3342	W11530	1378	24																					
0		HAYWARD MUN	N3739	W12207	43						0																
		HEALDSBURG	N3836	W12236	110																						
		HEMET	N3344	W11700	1657																						
		HENSHAW DAM	N3651	W11844	1300																						
		HOLLISTER	N3653	W12124	230																						
		HOLTVILLE	N3248	W11544	0																						
		HOOPER CANYON	N3452	W11625	1400																						
		HUNTINGTON BEACH	N3340	W11800	0																						
		IMPERIAL	N3250	W11517	-52																						
		INDEPENDENCE	N3624	W11812	3916																						
		INDIO	N3342	W11612	26																						
		INGLEWOOD	N3358	W11822	125																						
		INYOKERN	N3538	W11748	2440																						
		IONE	N3821	W12054	210																						
		JACKSON	N3823	W12054	1700																						
		JAMESTOWN	N3758	W12025	1800																						
		KERN	N3523	W11854	1500																						
		KERNVILLE	N3545	W11836	2600																						
		KING CITY	N3612	W12107	320																						
		LAKEPORT	N3903	W12254	1326																						
		LANCASTER	N3443	W11807	2340																						
		LEMOORE	N3618	W11957	237																						
		LIVERMORE	N3741	W12149	400																						
		LOMPOC	N3439	W12027	100																						
		LONE PINE	N3635	W11836	3700																						
		LOS ANGELES	N3357	W11824	97																						
		LOS BANOS	N3702	W12052	125																						
		MADERA	N3700	W12002	246																						
		MARIPOSA	N3729	W11958	2000																						
		MARYSVILLE	N3909	W12135	63																						
		MERCED	N3729	W12026	172																						
		MILLVILLE	N4044	W12134	1100																						
		MINERAL	N4021	W12124	1000																						
		MODESTO	N3739	W12101	91																						
		MONTAGUE	N4143	W12232	2600																						
		MONTEREY	N3637	W12152	0																						
		MOUNT SHASTA	N4119	W12219	3555																						
		NAPA	N3812	W12217	50																						
		NEEDLES	N3451	W11436	913																						
		NEWHALL	N3421	W11830	1200																						
		NEWPORT BEACH	N3336	W11753	0																						
		NORTH ISLAND NAS	N3242	W11713	0																						
		NORTON AFB	N3414	W11710	1159																						
		OAKDALE	N3746	W12050	100																						
		OAKLAND	N3744	W12213	0																						
		OCEANSIDE	N3312	W11714	0																						
		ONTARIO	N3401	W11736	944																						
		ORLAND	N3944	W12213	140																						
		OROVILLE	N3933	W12132	208																						
		OXNARD	N3412	W11912	0																						
		PALM SPRINGS	N3350	W11613	477																						
		PALMDALE	N3454	W11817	2519																						
		PARADISE	N3946	W12104	1700																						
		PASO ROBLES	N3540	W12040	740																						
		PETALUMA	N3814	W12239	0																						
		PIEDMONT	N3749	W12214	0																						
		PIXLEY	N3556	W11918	300																						
		PLACERVILLE	N3844	W12048	1850																						
		PLEASANTON	N3741	W12152	0																						
		PLUMAS	N3953	W12048	3500																						
		POINT MUGU NAS	N3407	W11907	0																						
		PORTERVILLE	N3604	W11901	450																						
		PRATHER	N3650	W11940	1000																						
		QUINCY	N3954	W12054	3432																						
		RAMONA	N3302	W11650	1400																						
		RED BLUFF	N4011	W12211	341																						
		REDDING	N4032	W12207	502																						
		RIALTO	N3406	W11722	1200																						
		RIDGECREST	N3538	W11737	2300																						
		RIO VISTA	N3824	W12141	0																						
		RIVERSIDE	N3358	W11722	1000																						
		ROSEVILLE	N3841	W12117	0																						
		SACRAMENTO	N3836	W12130	0																						
		SALINAS	N3642	W12136	0																						
		SAN BERNARDINO	N3407	W11715	1000																						
		SAN CLEMENTE	N3330	W11737	0																						
		SAN DIEGO	N3243	W11710	0																						
		SAN FRANCISCO	N3746	W12226	0																						
		SAN GABRIEL	N3406	W11806	0																						
		SAN JOSE	N3720	W12154	0																						
		SAN LUIS OBISPO	N3518	W12024	0																						
		SAN MATEO	N3732	W12225	0																						
		SAN NICOLAS ISLAND	N3315	W11927	0																						
		SANTA ANA	N3344	W11753	0																						
		SANTA BARBARA	N3425	W11941	0																						
		SANTA CRUZ	N3658	W12203	0																						
		SANTA MARIA	N3454	W12026	0																						
		SANTA MONICA	N3401	W11829	0																						
		SANTA ROSA	N3826	W12250	0																						
		SEBASTOPOL	N3824	W12249	0																						
		SHAFTER	N3530	W11916	0																						
		SHASTA DAM	N4042	W12220	1076																						
		SHERMAN ISLAND	N3804	W12139	0																						
		SIERRA MADRE	N3410	W11802	0																						
		SISKIYOU	N4116	W12228	2500																						
		SOLVANG	N3459	W12004	0																						
		SONOMA	N3829	W12227	0																						
		SONORA	N3802	W12022	1800																						
		STOCKTON	N3757	W12126	0																						
		SUSANVILLE	N4025	W12039	4200																						
		TAFT	N3509	W11927	1000																						
		TEHACHAPI	N3508	W11813	4000																						
		THERMAL	N3338	W11611	0																						
		TRACY	N3732	W12126	0																						
		TRAVIS AFB	N3822	W12156	73		27				0		9	10	10	12	29										
		TRINIDAD	N4109	W12409	0																						
		TULARE	N3612	W11921	0																						
		TURLOCK	N3747	W12050	0																						
		TWENTYNINE PALMS	N3405	W11606	0																						
		UKIAH	N3909	W12312	0																						
		VACAVILLE	N3821	W12159	0																						
		VALLEJO	N3807	W12215	0																						
		VAN NUYS	N3412	W11829	0																						
		VENTURA	N3417	W11918	0																						
		VICTORVILLE	N3432	W11718	2900																						
		VISALIA	N3625	W11918	0																						
		WATSONVILLE	N3659	W12149	0																						
		WEAVERVILLE	N4044	W12257	2400																						
		WILLOWS	N3921	W12213	0																						
		WOODLAKE	N3625	W11911	0																						
		YOSEMITE	N3751	W11944	2000																						
		YREKA	N4144	W12249	2625																						
		YUBA CITY	N3908	W12139	0																						

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE I

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (FT MSL)	3	5	8	9	12	18	22	42	48	99	80	81	82	83	84	85	86	87	88	89
		[illegible]																							
0		[illegible]																							
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0		[illegible]																							
	93115	[illegible]																							
	23144	[illegible]																							
	23209	[illegible]																							
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	93146	[illegible]																							
0		[illegible]																							
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0		[illegible]																							
0		[illegible]																							
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	23283	[illegible]																							
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	93188	[illegible]																							
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0		[illegible]																							
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0		[illegible]																							
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0		[illegible]																							
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		[illegible]																							
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	23213	[illegible]																							
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0		[illegible]																							
72493	23231	[illegible]																							
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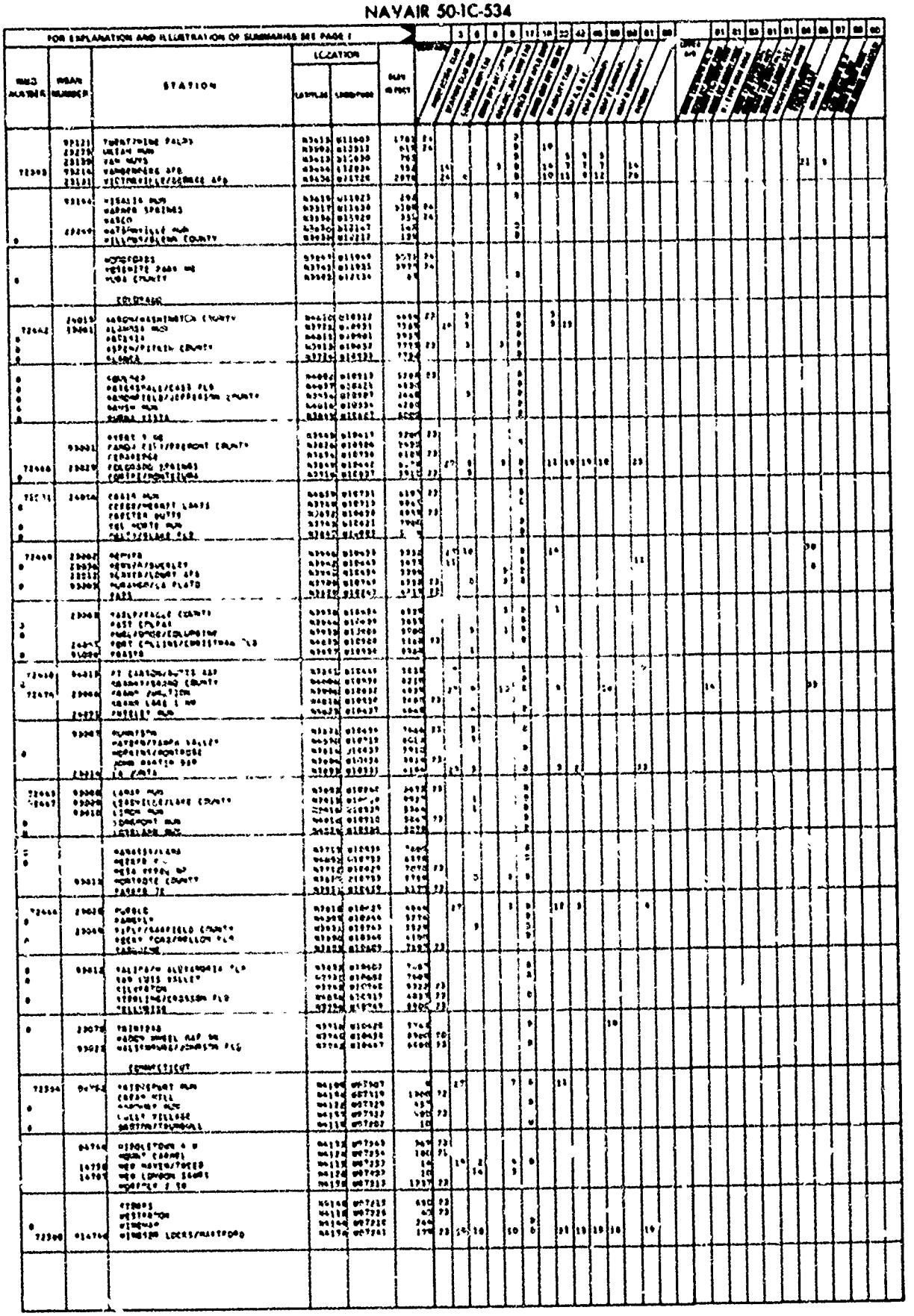
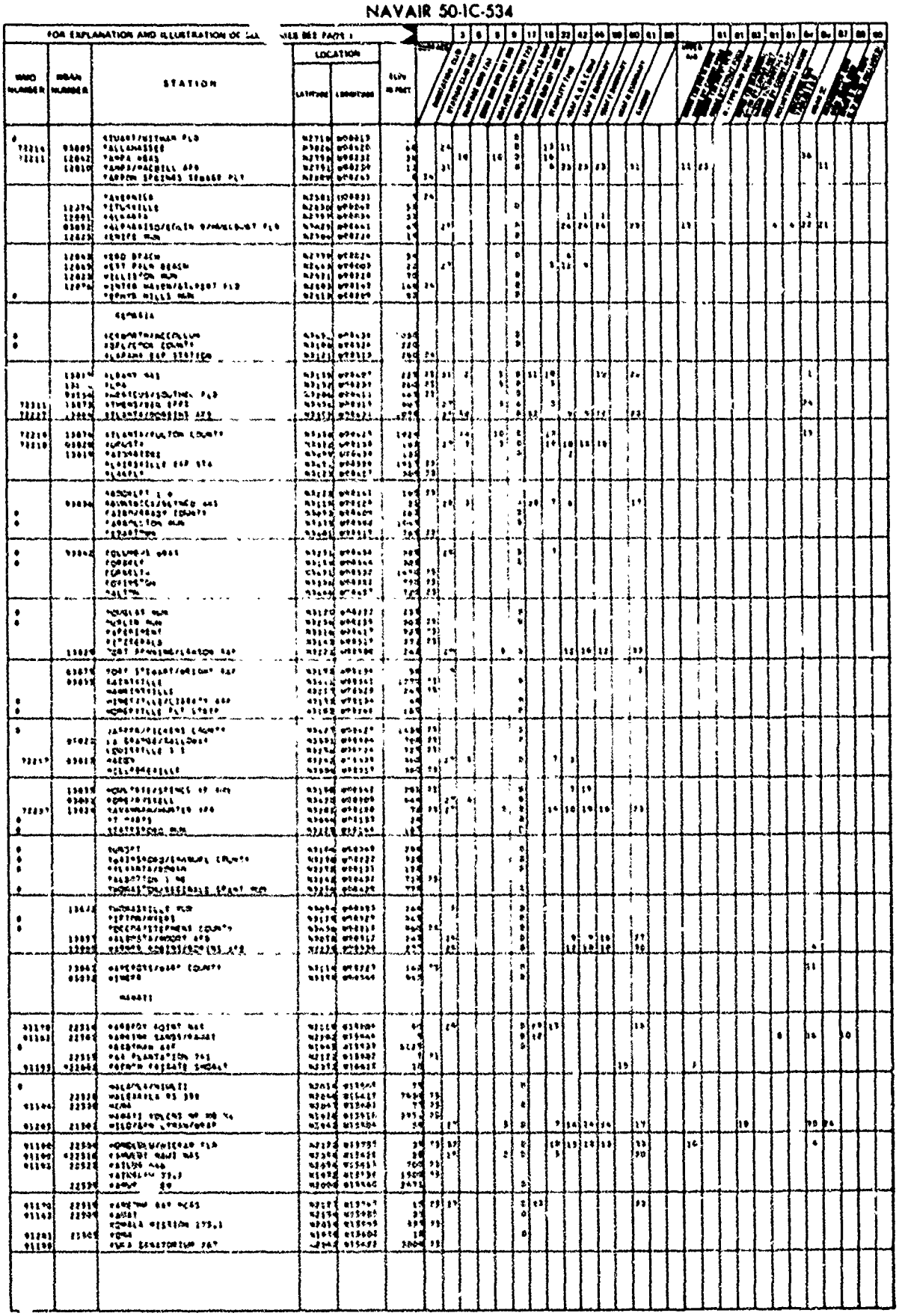


FOR EXPLANATION AND ILLUSTRATIONS OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
		DELAWARE																																	
		GEORGETOWN 1 NW	38665	075307	33	24																													
	13707	DOVER	39080	075520	38	25	26																												
0	13781	WILMINGTON	39400	075331	78	24	27					3	9																						
		DISTRICT OF COLUMBIA																																	
	13743	WASHINGTON D C/GEORGETOWN APO	38906	077033	270			26																											
72403	13743	WASHINGTON/NATIONAL AP	38850	077032	64		27	26			10	9																							
		FLORIDA																																	
72220	12027	APALACHICOLA MUN	29431	084581	20		27																												
	12004	CAPE SABLE	25110	081020	6	24																													
0		CAPE SAN BLAS/LIGHTHOUSE REP	29673	085223	20																														
	12063	CHARLOTTE HARBOR NAS	26915	082037	10																														
	12065	CLEARWATER MUN	27956	082387	10																														
	12070	COLLIER-SEMINOLE STATE	26242	081439	10	24																													
	12068	BOCA RATON	26233	080064	10																														
0		KEYS	24633	081333	10																														
	12071	KISSIMMEE/GILLESPIE	27726	081231	10																														
	12010	CEDAR KEY/FAA MUN	29137	083027	10	24																													
0		KISSIMMEE	28183	081151	10																														
0	12030	KISSIMMEE 2 S	28133	081233	10	24																													
0		KEY LARGO	25137	080137	10																														
72404	12060	KEY WEST/INTL	24333	081333	10			24																											
72201	12078	KEY WEST NAS	24341	081231	10			24																											
	03822	KEYS-CEDAR NAS	24333	081333	10																														
	03824	KEYSTONE 3 S	29133	082133	10	24																													
		KISSIMMEE 4 SSW	28204	081251	10	24																													
	12072	CLEARWATER	27581	082397	10																														
72709	12064	FORCE PEACH/PATRICK AFB	28135	080363	10		27	26																											
	12065	FORT MYERS	26586	081516	10	27		26																											
	12066	FORT PIERCE	27293	080223	10																														
	12069	FORT PIERCE 2 SSW	27254	080233	10																														
	12034	GAINESVILLE	29413	082163	10		26	26																											
0		HQ FINLEY SPRINGS	30042	082487	10	24																													
0		HQ LAKE	28294	081217	10																														
	12060	HOLLYWOOD/NORTH PERRY	26107	080167	10	24																													
0		HOMESTEAD/AFB	25291	080291	10																														
		JACKSONVILLE NAS	30133	081401	10																														
72206	13889	JACKSONVILLE WSO	30292	081239	10			26																											
72201	12092	KEY WEST NAS	24344	081451	10			25																											
	12815	KEYSTONE HEIGHTS/GEORGE AIRPARK	29481	082003	10																														
	12816	KISSIMMEE MUN	28181	081251	10																														
	12818	LAKE ALFRED EXP STA	28054	081440	10	24																													
	03838	LAKE CITY	30191	082239	70	24																													
0		LAKE WALES MUN	27591	081351	10																														
	12806	LAKELAND	27584	082013	10		24																												
	12819	LEESBURG	28464	081491	10																														
		LEHIGH/ACRES	26364	081391	10	24																													
0		MARION	30514	082311	10																														
		MARIANNA/LEMORE	30471	085131	10																														
	13853	MARIANNA	30504	085141	10																														
	03853	MARIANNA AP	30471	085131	10		27	19																											
72204	12836	MELBOURNE-ORL BALLIE	28061	080373	10		24																												
72202	12839	MIAMI WSO	25481	080171	10		27																												
	03804	MILTON/WHITING FLD NAAS	30431	087041	177		27	8																											
		MONTICELLO	30321	083521	10	24																													
		MOORE HAVEN LOCK 1	26511	081051	10	24																													
	12834	NAPLES/MUNICIPAL	26091	081461	10	24																													
0		NEW SMYRNA BEACH	29011	080561	10																														
	12843	OCALA MUN	29111	082001	10			18																											
0		OKEECHOBEE COUNTY	27151	080501	10																														
72205	12844	ORLANDO MAAS	28331	081191	10			9																											
0	12815	ORLANDO/MCCOY AFB	28271	081211	140		27																												
0		PANAMA/PALM BEACH COUNTY	26541	080051	10																														
0		PALATKA/KAY LARKIN	29201	081411	10																														
72203	12844	PALM BEACH INTL	26411	080051	10																														
	13846	PANAMA CITY/TYNDALL AFB	30121	085411	10		27	9																											
	03828	PENSACOLA/CECRET FLD NAS	30211	087191	10																														
	03846	PENSACOLA/ELLYSON FLD NAS	30301	087111	121		27																												
72202	03855	PENSACOLA/FOREST SUNTRAIN NAS	30211	087191	10		27																												
	03813	PENSACOLA/SAUFLEY FIELD NAAS	30321	087121	10		24																												
0	13844	PERRY-FOLEY	30041	083341	10																														
0		PLANT CITY	28000	082111	114	24																													
0		POMPANO BEACH	26141	080061	10																														
	12812	PORTS MORRA/CHARLOTTE COUNTY	26591	082151	10																														
		POINT LEO	27271	082261	10	24																													
	12894	RAMPART NAS	28241	081271	10																														
0		REDUCTION MUN	27491	080331	10																														
	12892	REDUCTION/ORANGECEN FLD	28271	081121	10																														
0		ST AUGUSTINE/PAPPENDIN	29411	081191	10	24																													
0		ST LUCIE/STRECK F DIRCH	27271	080221	10																														
		ST MARKS 2 SSW	30091	084161	10	24																													
	12872	ST PETERSBURG CO	27461	082191	10	24																													



FOR EXPLANATION AND ILLUSTRATION OF SUBHEADINGS SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (FT MSL)	3	6	9	17	18	22	42	46	58	60	61	80	81	81	83	85	86	86	87	88	90
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FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

| WBAN NUMBER | WBAN NUMBER | STATION | LOCATION | | ELEV (GRND) | NORMALS, MEANS AND EXTREMES | | |

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION		SIZE IN MILES
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		[illegible]			
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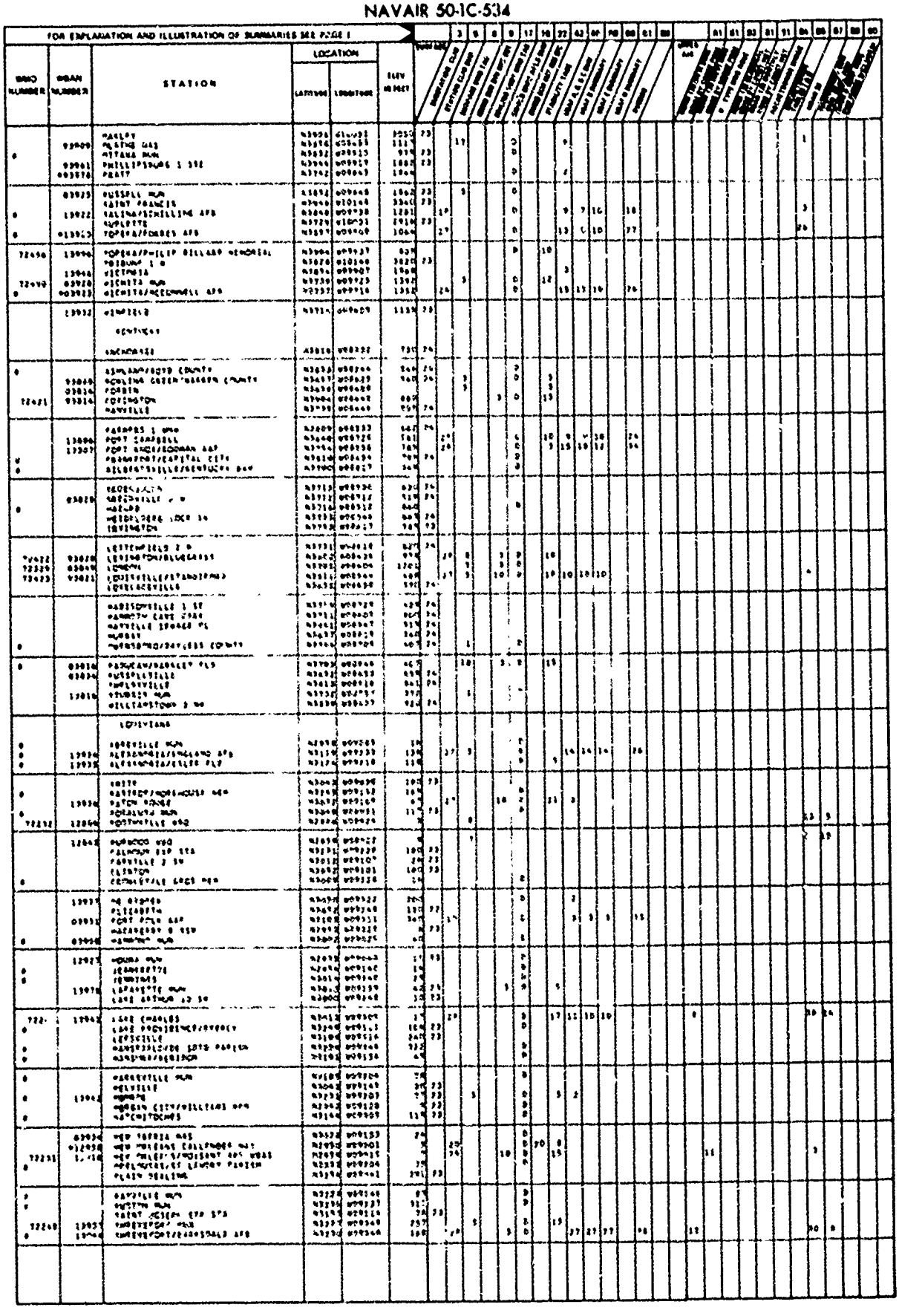
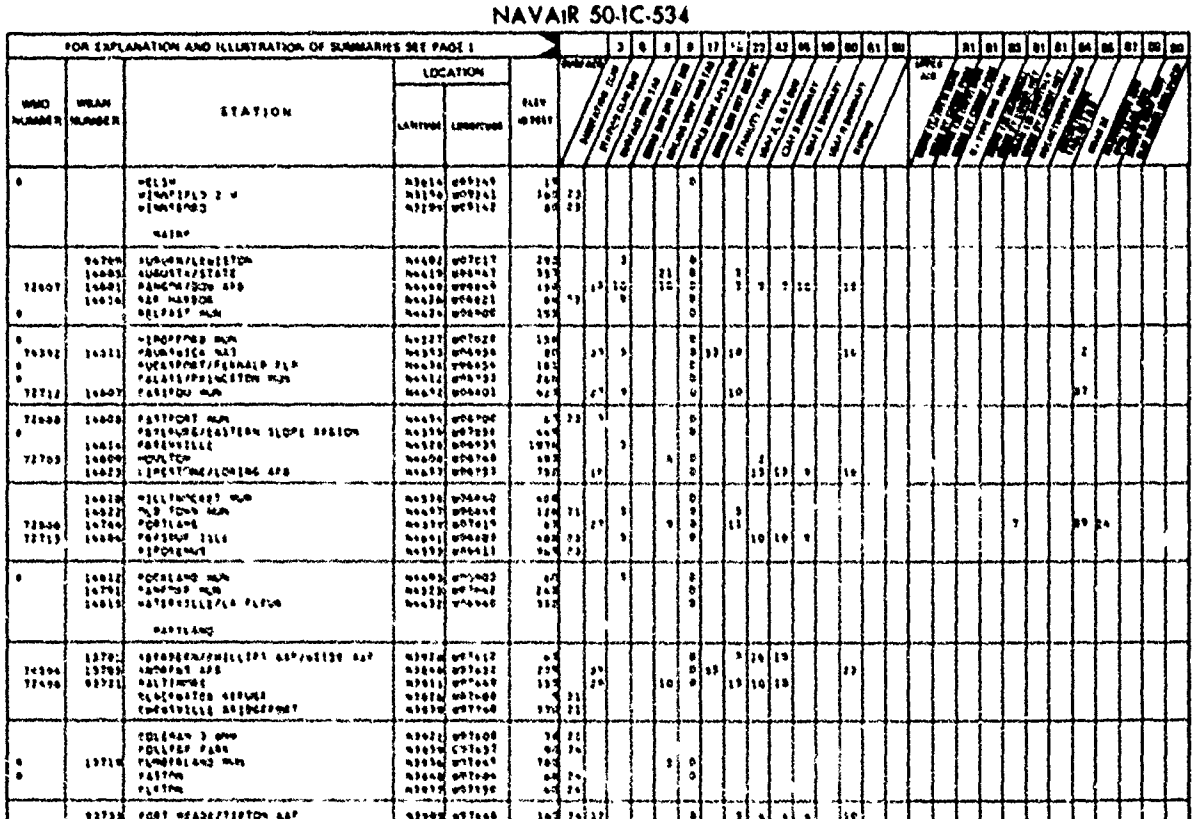




| FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1 | | |

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LAT/MIN	LOCATION LONG/TIME	SUMMARY ON PAGE
72039	94949	ALMA MUN ALPENA/PHELPS ANN ARBOR MUN BECKLEY/CITY-COUNTY BIG RAP/MARION COUNTY MUN	46327 45046 42213 44451 43047	084636 083333 083946 081132 086059	738 660 837 638 768
	14001	BALDWIN BATTLE CREEK/KELLOGG BAY CITY/ELEMENTS MUN BENTON HARBOR/ROSS FLD BOYNE CITY MUN	46 19 42 18 43 33 41 07 45 13	084934 085014 083854 086429 085046	820 836 994 632 669
	14017 14007	CADILLAC CARO MUN CHARLEVOIX CHATHAM EXP FARM CLARE MUN	44 17 43 27 45 51 46 21 43 47	085425 083321 084718 084434 084845	1384 780 668 875 887
72037	94897 14022	COLDWATER/BRANCH COUNTY DETROIT DETROIT CITY WSO1 DOWAGIAC/CASS COUNTY MUN EAST JORDAN	41 56 42 13 42 24 41 58 45 09	085003 083220 083000 086027 085108	934 634 674 750 790
72048 72037	94893 14026	ESCANABA MUN FLINT/BISHOP FREMONT GLADWIN MUN GRAND RAPIDS/MUSKEGON	45 44 43 20 43 24 44 00 42 53	086 57 083 45 085 57 084 29 086 13	840 787 900 780 848
72033	14850 94855 14836	GRAND MARAIS 1 SSE GRAND RAPIDS/KENT COUNTY HASTINGS AAF HENDERSVILLE HIBBING ISLE WAS	46 40 42 53 44 16 44 38 47 24	085 59 085 39 085 44 086 12 092 50	734 692 1170 815 958
72049 72047 72044	94836 14838	HOUGHTON 1 SW/KEWEENAW APT HUNT HASTINGS MUN HOWELL IRON MOUNTAIN/FORD	46 27 42 36 42 39 42 36 45 49	088 32 083 22 085 19 083 40 088 07	1240 878 813 1378 1164
72039	94870 14833 94815 94834	ISHPEMING/NEGAUNEE COUNTY JACKSON/BETHUNE MUN KALAMAZOO MUN KINCHELOE/CHENEY APT LANSING	46 31 42 15 42 14 46 15 46 45	087 40 084 27 085 33 088 26 084 57	1266 1060 876 868 912
72049 72046	14836 94816	LANSING/CAPITOL CITY LAPEER/DUPONT LUDINGTON/MASON COUNTY MANISTEE/STRAITS COUNTY MANISTIQUE/SCHOOLCRAFT	42 46 43 03 43 57 44 15 45 58	084 35 083 19 086 26 086 21 086 15	846 848 848 814 838
72043	14850	MARQUETTE MARSHALL/BROOKS FLD MENOMINEE COUNTY MIDLAND/BARSTOW MILFORD AA PORTING AP	46 32 42 16 45 07 43 37 42 35	087 33 084 57 087 09 084 15 083 42	72 938 822 628 982
72046	14806 14846	MONROE/CUSTER MOUNT CLEMENS/SELFRIDGE APT MUSKEGON/HAMLEY FLD NILES/BERRIEN COUNTY NEWBERRY STATE HOSP	41 54 42 38 43 10 41 50 46 21	083 20 082 58 086 17 086 14 085 29	815 668 982 674 808
72034	14858 14854	NILES/JOSEPH TAYLOR PATERSON SAGINAW/HURLBURT AFB SAULT STE MARIE SCOTTVILLE	41 50 44 45 43 32 46 28 44 24	086 21 082 59 084 04 084 22 086 16	748 783 813 739 718
72034	94817 14845 14845	SPARTA SSES CITY/WILLIS FLD STANTON SAULT STE MARIE STEPHENSON	43 09 44 27 43 21 46 28 45 34	085 43 084 41 085 23 084 22 087 37	778 1018 823 724 808
	14858	TRAVERSE CITY	44 45	085 35	625
72035	14855	WAUSEON MUN WAUSEON BIG FALLS BIRD ISLAND BOONEVILLE/CROW WING	41 33 44 29 48 11 44 46 46 21	084 08 084 09 093 48 094 54 094 08	1068 1295 1228 1068 1228
		FARMINGTON STATE HOSP FARGO FARGO 1 NW FLOODWOOD FARMINGTON NW EXP STA	44 39 46 54 46 54 46 54 44 38	093 11 096 47 096 53 092 31 093 37	1060 1261 778 1265 881
72763	14913	DULUTH FOSSTON-MCKENZIE FAIRMONT MUN FARIBAULT MUN HUMPHREY 3 NW	46 50 47 36 43 38 44 17 44 46	092 11 095 23 094 29 093 19 093 11	1431 1385 1163 1054 983

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV in FEET	3	6	9	12	18	22	42	46	50	60	61	80	81	82	83	84	85	86	87	88	89
0		FERGUS FALLS/NICHOLSON MUN	46617	096008	1168				0																	
		ADAMS PARAIS	46144	096921	418	24																				
	94919	ADAMS RAPIDS MUN	46212	096330	1320	24			0																	
0		WESTON MUN	46444	096442	1068				0																	
	94931	WILLMAR	45124	095230	1130		3		0																	
	14933	WINCHELL	44401	092230	1035	24																				
72747	14918	INTERNATIONAL FALLS	48036	093324	1128		27	5			0	10	16		10					7		57	24			
		LEECH LAKE DAM	46213	094619	1308	24					0															
0		LONG PRA AIR/RAY S MILLER AAP	46403	093421	1146						0															
	14934	MARKATO	44038	093959	1302						0															
	94906	MARSHALL MUN	44427	095949	1172				0																	
72658	014947	MINNEAPOLIS NAS/HOKE	44913	093113	841		29		0		19				29							2				
0		NEW ULM MUN	44419	094628	1060	24			0																	
0		NORTHOME MUN	44477	093915	1246				0																	
		PARK RAPIDS	46913	094904	1438	24																				
0		PIPESTONE MUN	44159	096418	1736	24			0																	
	14992	PRINCETON FALLS MUN	46433	093909	1028				0																	
72644	14929	ROCHESTER MUN	44254	092929	1316		27			3	0		9													
	14955	ROSEAU 1 E	48851	095749	1067	24					0															
0		SOUTH ST PAUL	44971	093001	824						0															
72693	14926	ST CLOUD/WRIGHT MEMORIAL	45534	094218	1035		27	5			0		9									57				
	14927	ST PAUL/DOWNTOWN	44456	093053	703						0											6				
0		THIEF RIVER FALLS	48033	096611	1114			5			0															
		WARREN	48198	096233	1038	24																				
0		WARREN MUN	48026	096506	1135	24			0																	
	14928	WILLMAR MUN	45306	095059	1133				0																	
0		WINONA/MAX CONRAD FLD	44034	091742	656				0																	
	94927	WORTHINGTON MUN	43339	095533	1575	12		3	0																	
		WISCONSIN																								
0		ASHLAND/KOMOSE COUNTY	46331	090929	725	23			0																	
	93968	BAY VIEW LOUIS	46318	090926	20	23																				
	13928	BELOIT/BELLIN APS	46525	089035	24	23	29		0		9	10	19	10		32										
		BOSWELLVILLE	42639	088839	919	23																				
	99918	BRODHEAD/BEN	42137	089620	695	23																				
		CANTON	43236	089002	728	23																				
0		CLEAR/SPALD/PLEITCHER PLN	43417	089331	122	23			0																	
0		CLEVELAND/BOLIVAR COUNTY	43306	089049	139				0																	
		COLUMBIA	43117	089050	166	23																				
	13839	COLUMBUS/APS	43336	089027	775		29	5	0		9				30											
0		DEVALS/DEVILS GLP	43203	088949	960				0																	
		DIAMOND	43206	088826	875	23																				
		FOREST 3 S	43218	088929	983	23																				
	13990	FARMINGTON/APS	43328	089439	1255				0		5	11	11	10												
	13933	FARMINGTON	43332	089037	1067	23			0		5	2														
	12818	GARDNER	45345	088848	784				0			7														
	13838	GLADSTONE MUN	45218	086904	1240				0																	
	13833	HAYWARD/MUN	46118	091019	1417	23			0			7														
0		IRON/MOLA/LEBISON	43328	089340	1210				0																	
72747	13934	JACKSON	43220	088913	982		27	5	0		23	5		10								76				
72734	13868	KEY FIELD/MERIDIAN	43228	088847	788				0		5	7														
	13834	LAMAR	43106	088910	837	23			0			2														
		LONESTEE AP	43206	088844	981	23																				
		MAPLE 2 NE	43308	088833	1019	23																				
	99919	MCCOMB/PIKE COUNTY	43119	090928	468				0		6															
	93966	MERIDIAN NAAS	43218	088833	295		27	0	0	17	9				7											
0		NATCHEZ/ADAMS COUNTY	31319	091118	279	23			0																	
0		NATCHEZ/VIDALIA	31428	091033	449				0																	
0		NATCHEZ/WILKINSON COUNTY	31402	091225	154				0																	
0		PICAYUNE MUN	30531	089643	92				0																	
		PORT GIBSON 1 NW	31518	091100	125	23																				
0		RAYMOND/HILLCREST	32116	090924	294				0																	
0		RICHLAND/FIRE DISTRICT	32135	090004	268				0																	
		SCOTT	33536	091107	141	23																				
0		STARKVILLE MUN	33278	088830	539				0																	
		STATE UNIVERSITY	33128	088849	284	23																				
		STONEVILLE DIP STA	33229	091229	117	23																				
72350	03862	TUPELO MUN	34138	088966	465				0																	
	03928	TYLERTOWN 2 WNW	31107	089511	440	23																				
		UNIVERSITY	33428	089033	308	23																				
	93944	VICKSBURG MUN	32218	090925	111		27		0																	
		WOODVILLE 6 ESE	31106	091114	600	23																				
0		YAZOO CITY/SHARKEY FLD	32521	090626	112				0																	
		WYOMING																								
		ARMINTO	43428	095436	1051	24																				
		APPLETON CITY	43312	095402	800	24																				
	93945	BAILEY FAA	43312	095428	888			3																		
0		BANNISTER MEMORIAL	42558	095141	1260				0																	
		CANTON LOCK AND DAM	44609	095131	468	24																				
0	03938	CAPE GIRARDEAU	37118	089930	362				0																	
0		CARUTHERSVILLE	36410	089840	270	24			0																	
0		CHESTERFIELD	38378	090538	465				0																	
	13902	CHILLICOTHE	39946	093133	785	24																				
72445	13903	COLUMBIA	38918	092227	781		27		0		10									7		64	37			
0		DEXTER MUN	36446	090056	363				0																	
		FLORENCE 1 S	43909	089047	658	24																				
	93894	FARMINGTON	43741	090827	455	24		5																		
		FAYETTE	39409	092741	768	24																				
	82934	FT LEONARD WOOD/FORNEY AAF	37943	092208	1168		27		0						10											
0		FREDONIA	36478	088839	368				0																	
	03929	HANNIBAL/RICHARDS GEBAUR AFB	39352	091433	1019		16		0			8	9	8		16										
		PARKVILLE 6 N	39312	094827	660	24																				
	93996	SAINTSBURG WATERWORKS	39463	093127	717	24																				
0		WOOSTER/MEMORIAL	40218	092158	1219				0																	

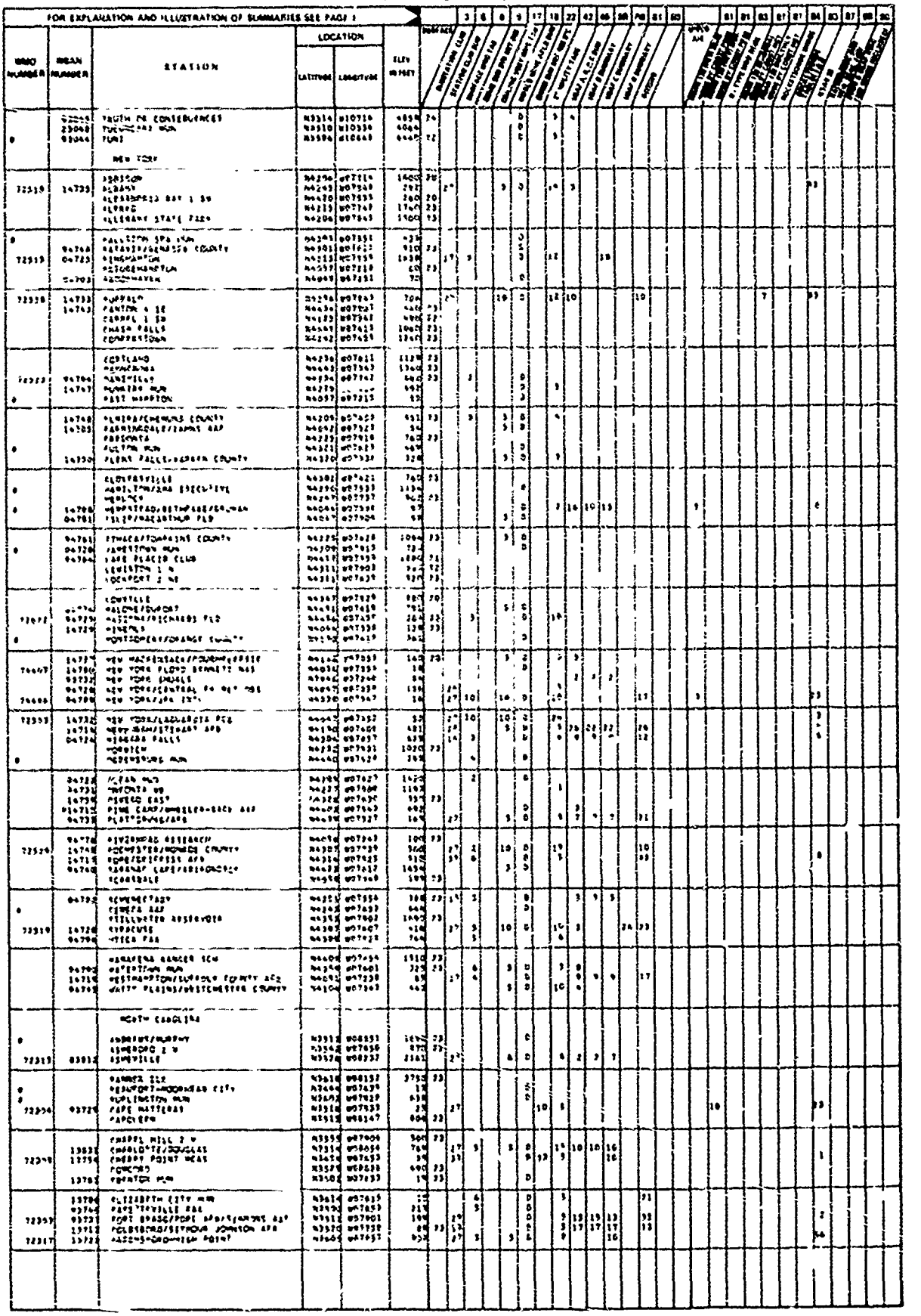
FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

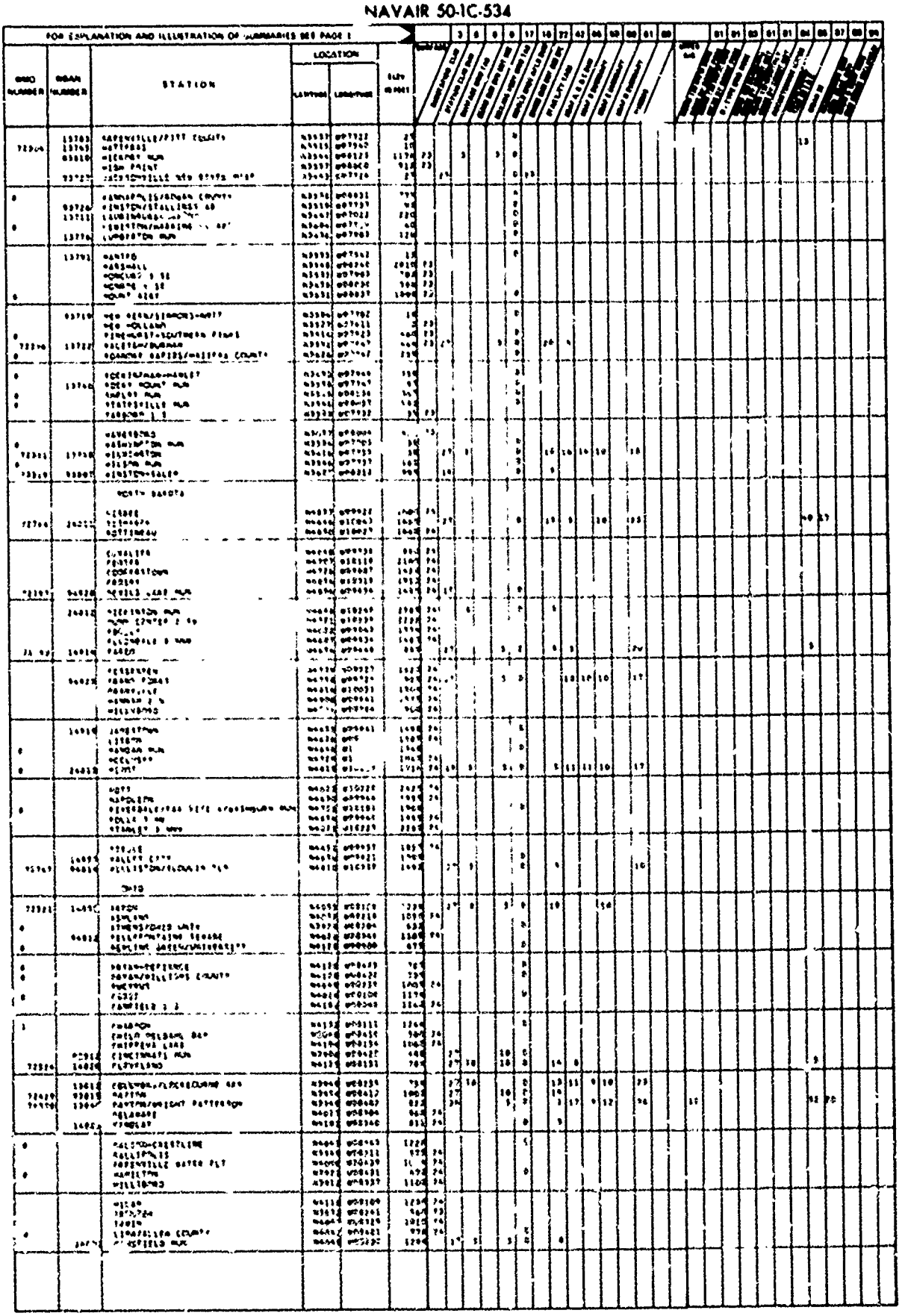
WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (G.M.S.L.)	SUMMARIES
0		ZACHARY	30723	091046	133	74
0		JEFFERSON CITY	38539	092209	545	
	13987	JOPLIN MUN	37089	094529	980	74
72440	13988	KANSAS CITY	39073	094435	750	
0		KIRKSVILLE/NOR	40114	092502	762	
	13958	MINERAL/CLARENCE CANNON	39303	090732	966	
	13930	MONROE/WHITMAN AFB	38446	073536	879	
		LANSING	39012	094337	902	74
	93976	LEBANON	37742	092641	1200	74
		LEXINGTON	39011	093533	636	74
0		LIMA CREEK/GRAND	36896	094141	870	
		LOCKWOOD	37373	093937	1210	74
		MACON	39543	092127	860	74
	13946	MALDEN	36938	090839	398	
0		MARYVILLE MUN	40021	094536	1,040	74
0		MEXICO	39111	091130	770	74
		MOBERLY/RANDOLF	39427	092225	868	
72349	03946	MONETT	36933	093936	1040	
0		NEVADA MUN	37791	094417	982	
		NEOSHO	36919	094948	1060	74
72449	13993	SAINT JOSEPH	39744	094435	809	74
		SALEM	37738	091137	1200	74
0		SEDALIA MEMORIAL	38842	093210	798	
0		SIKESTON MEM	36833	089833	314	
72440	13995	SPRINGFIELD	37174	093313	1270	74
72448	13994	ST LOUIS	38744	090322	571	74
0		STEELE MUN	36000	089900	330	
0		SULLIVAN MEMORIAL	38412	091110	989	
		UNIONVILLE	40428	093004	1060	74
	13997	VICHY/ROLLA NATIONAL	38006	091744	1107	
72368	03963	WEST PLAINS	36644	091931	1007	74
		WILLOW SPRINGS	36939	091959	1310	74
		MONTANA				
0		ANACONDA/LESSORE	46000	113232	5010	64
0		ASHLAND/ST LABRE	46136	106619	2932	
0		BAKER MUN	44721	118459	2990	
		BIG SANDY	48110	110307	2756	74
	24090	BIG TIMBER	45540	109959	4462	
72677	24033	BILLINGS	45806	108032	3503	
	24132	BOZEMAN/GALLATIN FLD	45548	111109	4462	
		BUTTE	46018	112535	5550	74
	24089	CASCADE	47274	110931	3292	74
0		CHARLO/JOCKO/SYMBOL	47036	113954	4650	
72679	24135	CUTTE	46556	112330	5525	74
		CASCADE 2 S	46718	111143	3390	74
0		CHESTER	48338	110305	2100	
0		CHESTEAU	47748	112309	3949	
0		CIRCLE/MCCONE COUNTY	47733	105933	2424	
0		COLUMBUS	45137	108959	3375	
0		CONRAD	48610	111159	3339	
		CULBERTSON	48209	104531	1970	74
	24048	CUSTER	45[illegible]	[illegible]	2882	
0	24135	DUT RAMP	46037	111727	3898	74
0		DELL/BEAVER	44448	113245	5950	
	24178	DILLON	45153	112337	5238	72
		DORAY 4 NNW	46647	108729	2400	74
0	24094	DUBOISTH MUN	44818	108434	2718	
		DUBOISE 1 N	44847	108434	3904	74
	94618	ELLISTON AFB	46826	108431	2794	
72760	94648	ELLISTON MUNICIPAL	46813	108437	2298	
	24087	ELGARIVE	46787	108441	3128	
72775	24143	FORT PECK/GLASGOW AFB	48236	106137	2077	
0		HARLEM	48535	109447	2375	72
	24091	HARLOWTON MUN	46427	108931	4214	74
72727	94012	HAVRE	48332	109643	2589	
72772	24144	HELENA	46628	111159	3973	
		HELENA 2 NW	46635	111408	3242	74
0		HOT SPRINGS	47736	114630	2763	
0		JEFFERSON/HIGGINS	45928	111927	5400	
0		JORDAN	47250	106938	2469	
72779	24146	KALISPELL/GLACIER PARK	48418	114119	2972	
	24018	LEWISTOWN	46704	109927	4138	74
	94127	LIMA	44638	112739	6274	74
0		LINCOLN	46858	112130	4350	
	24158	LIVINGSTON/MISSION FLD	45543	110529	4458	74
0		MALTA	48212	106955	2208	
0	[illegible]	MILES CITY	46428	105953	2634	74
72773	24153	MISSOULA	46854	114052	3205	
0		MOMEIR	48838	104429	2264	
0		PLAINS	47228	114642	2460	
0		RED LODGE	45113	109213	5760	
0		ROMAN	46734	114459	3968	
	94008	ROSEBUD	46628	106932	2405	
		SAVAGE	46727	104431	1965	74
0		SCOBEY	48548	105428	2439	
0		SHELBY	48832	111152	3419	
0		SIDNEY	46742	104411	1971	
		SIMPSON 4 NW	46638	111319	3760	74
	24159	SUPERIOR	46734	114653	2715	74
	94122	THOMPSON FALLS	47736	115417	2465	
	94123	TOWNSEND	46620	111.128	4000	
0		TWIN BRIDGES	45532	112119	4775	

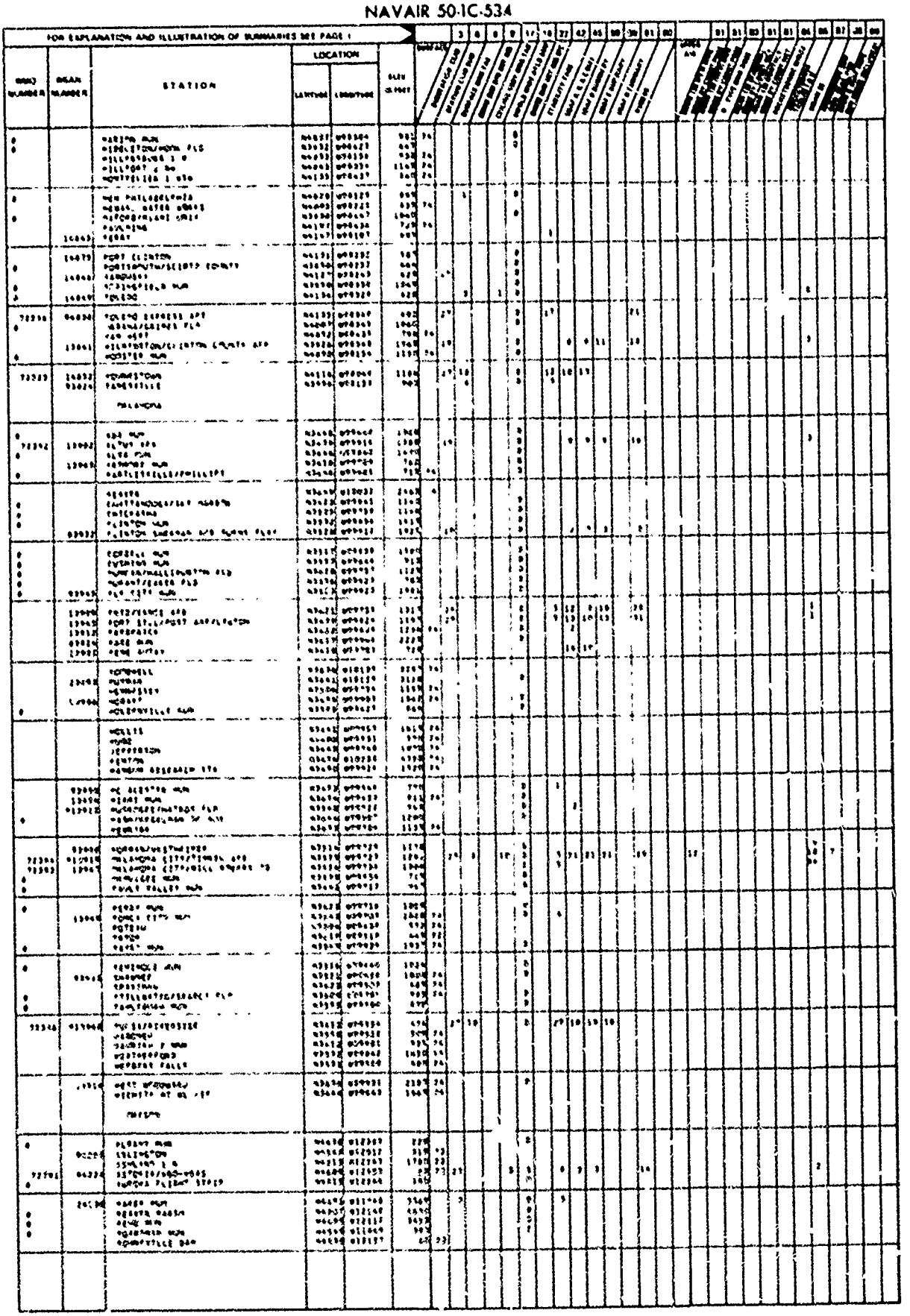
FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE I

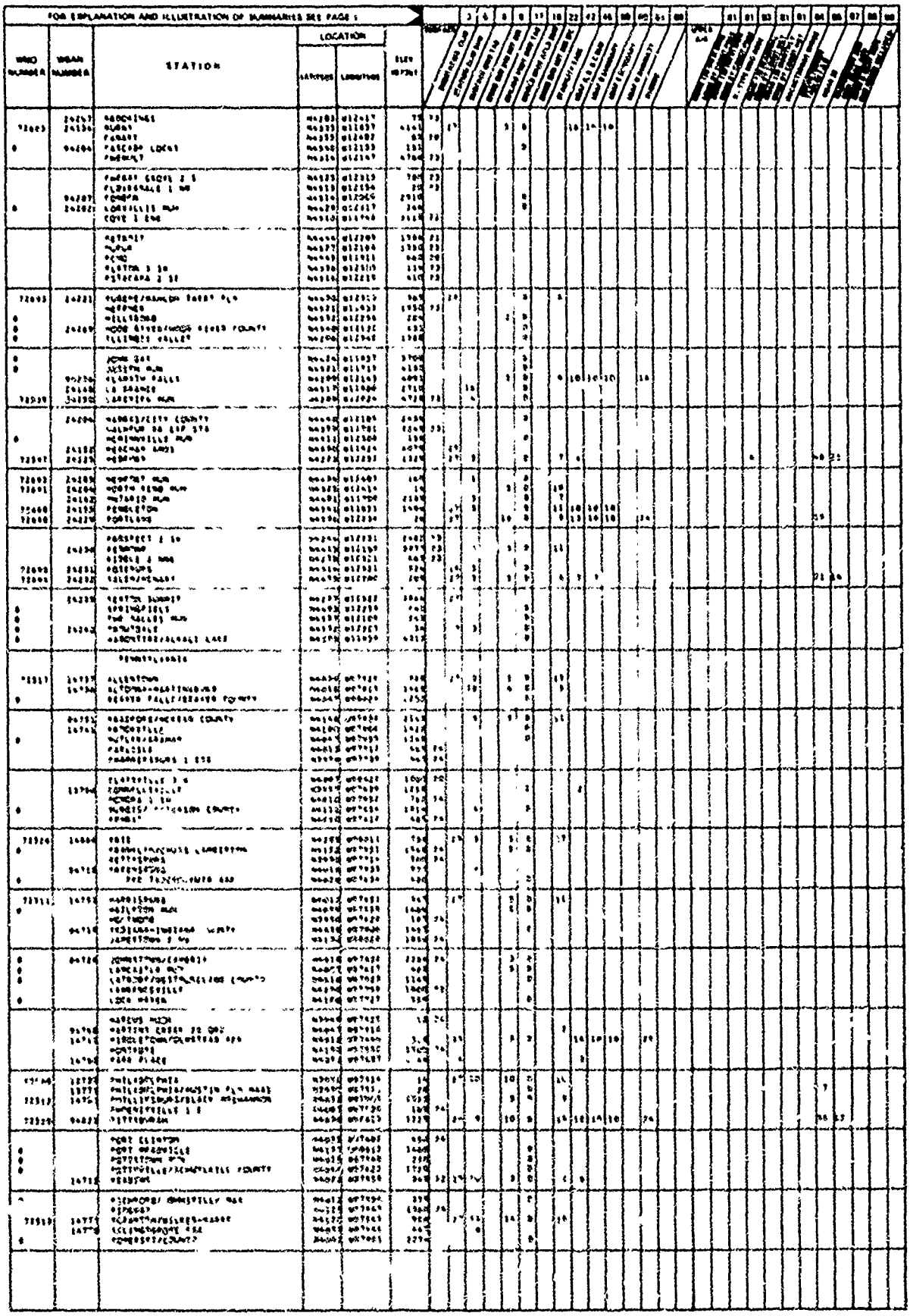
WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	5	6	8	9	17	18	22	42	66	68	69	81	88	01	31	00	01	01	06	75	07	00	00
0		VALLEY	46817	W11214	3825	26				0																		
		VIDA	46756	W10929	2409	26																						
72676	24198	WEST YELLOWSTONE	44641	W11136	6644					0																		
	24161	WHITEHALL FAA	45909	W11212	4604		3			0																		
		WIBAUX 2 E	46918	W10409	2978	26																						
0		WOLF POINT	48655	W10934	1965		5			2																		
		WYOLA	44904	W10729	3705	26																						
		WYOMING																										
	24001	ALBERTON	44235	W10900	2585	23				0		4																
	24044	ALLIANCE	42083	W10348	3938	23		5		0		2																
		ARTHUR	41534	W10161	3504	25																						
4		ASHLAND 3 FSAL AA	46106	W10656	3064					2																		
		ATKINSON	42733	W09959	2139	23																						
0		BEATRICE MUN	40318	W09643	1314	23				0																		
0		BLAIR MUN	41415	W09619	1078	23				0																		
		BRIDGEPORT	41042	W10334	3620	23																						
	14901	BURTING	41020	W09723	1964							2																
	14904	BURWELL	41407	W09902	2179	23																						
		BUTTE	42753	W09931	1913	23																						
		CENTRAL CITY	41107	W09630	1499	23																						
	24017	CHADRON MUN	42835	W10330	3295		5			0																		
0		COLUM MUN AR	41125	W09722	1266					0																		
		TOTAL	46215	W09921	1648	23																						
0		FAIRBURY MUN	40011	W09718	1468					0																		
0		FAIRMONT/STATE	40839	W09734	1639					0																		
		FALLS CITY	40344	W09536	992	23																						
0		FREMONT	41434	W09631	1268					2																		
		FRIEND/SAUNG	40634	W10010	2569	23																						
72592	14935	GRAND ISLAND	40858	W09819	1856		26	5		0		1	10	10	10													
		HALSEY 2 W	41541	W10019	2764	23																						
		HARRISON	42701	W10332	4529	23																						
		HARTINGTON	42737	W09716	1368	23																						
	14908	HARVARD	40345	W09547	1918					0		2																
0		HASTINGS	40836	W09825	1934					0																		
0		HOLDREGE/BARBOTTA FLD	40428	W09930	2130					0																		
	24091	IMPERIAL MUN	40630	W10127	3279	23				0																		
	14969	KEARNEY	40644	W09901	2136					2		4																
		KIMBALL	41114	W10940	4723	23																						
0	14994	LEXINGTON MUN	40607	W09904	2402					0																		
72591	14966	LINCOLN	40452	W09645	1165		27	2		0		3	9	5	10													
		LOUP CITY	41117	W09938	2069	23																						
	24004	MCCOOK	40212	W10035	2778					0			7															
0		NELSON MUN	40036	W09734	2154					0																		
72555	14961	NORFOLK/KARL STEFAN MEMORIAL	42135	W09724	1572		27	3		0																		
72562	24022	NORTH PLATTE	41106	W10042	2781		27			0		10																
72594	14949	OFFUTT AFB	41137	W09535	1098		27	3		0		10	13	14	10		20							05		37		
		OLD FLYUG	40046	W09731	1728	23																						
72596	24028	O'NEILL/ONEILL	42512	W09838	1962		29	5		0		4														1		
0		ORD/SHOWB/STATE	41135	W09938	1571					0																		
72565	24034	PENDER MUN	42108	W09739	1309																					1		
		PERKINS	40829	W09911	1845	23																						
		PIERCE	42143	W09613	1932	23																						
0		PRESTON/MUN	40046	W10048	2704					0																		
72567	24032	VALENTINE MUN	42514	W10933	2598		27	5		0																		
0	14999	YORK MUN	40832	W09739	1665					0																		
		NEBRA																										
	24119	BATTLE MOUNTAIN	40636	W11437	4935	23		5		0																		
	93128	BOULDER CITY	35958	W11451	2490	23				0																		
72497	03115	CALIENTE	37317	W11431	4463	23				0																		
0		CARSON CITY	39012	W11944	4793	23				0																		
		CONTRACT	36167	W11448	5368	23																						
		DESERT ROCK NV AIRBASE	43678	W11922	2926	23																						
72592	24122	ELKO MUN	40648	W11347	5135		27	9		0		3																
72486	23134	ELY/YELLAND FLD	39017	W11351	6262		27			0		3		6										40				
	93182	FALLON NAAS	39327	W11843	3934	23	30	9		0	23	3																
	93134	HAWTHORNE MUN	38332	W11838	4294					0																		
	23142	INDIAN SPRINGS	36636	W11541	3129					0						4										2		
	03142	JACKPOT FLATS	42048	W11614	3408																							
		LAMONTON DAM	39248	W11904	4158	23																						
	23112	LAS VEGAS/NELLIS AFB	36415	W11502	1903		24		5	0		10	14	14	13		25				7			25	39			
		LEMMON CANYO NAT MON	43046	W11419	6825	23																						
72594	24172	LOVELOCK	40442	W11833	3908	23				0		0																
	93179	MC GILL	39242	W11446	6340	23																						
	03194	MERCURY/YUCCA FLATS	36633	W11455	3926					3	4													20	16			
		MINA	38328	W11906	4553	23																						
0		MINERAL/DOUGLAS COUNTY	38814	W11949	4718	23				0																		
	03131	MORTON MUN	43414	W11428	1383					0																		
	24172	NEWPORT	48154	W11604	5398	23																						
		OLDCHE	43756	W11427	5167	23																						
72488	23116	RENO/STEAD AFB	43044	W11952	5275		27			0		10	9	9	12		13							1				
		RUBY LAKE	40012	W11530	6012	23																						
		RYE PATCH DAM	40024	W11819	4135	23																						
0		SEARCHLIGHT	35126	W11453	3460	23				0																		
		SHELDON	38515	W11938	6500	23																						
6		SMOKEBRIDGE FLD	43612	W11511	2263					0																		
72485	03174	TONOPAH	38044	W11704	5426		21			0		5	3				20					3	1	2	3			
	24192	WELLS	41106	W11533	5706	23				0																		
72583	24128	WINNEMUCCA	40854	W11744	4295		27			0		3	14	14	10									23				
0		YERINGTON MUN	38903	W11949	4379	23				0																		
		YER MEMORIAL																										

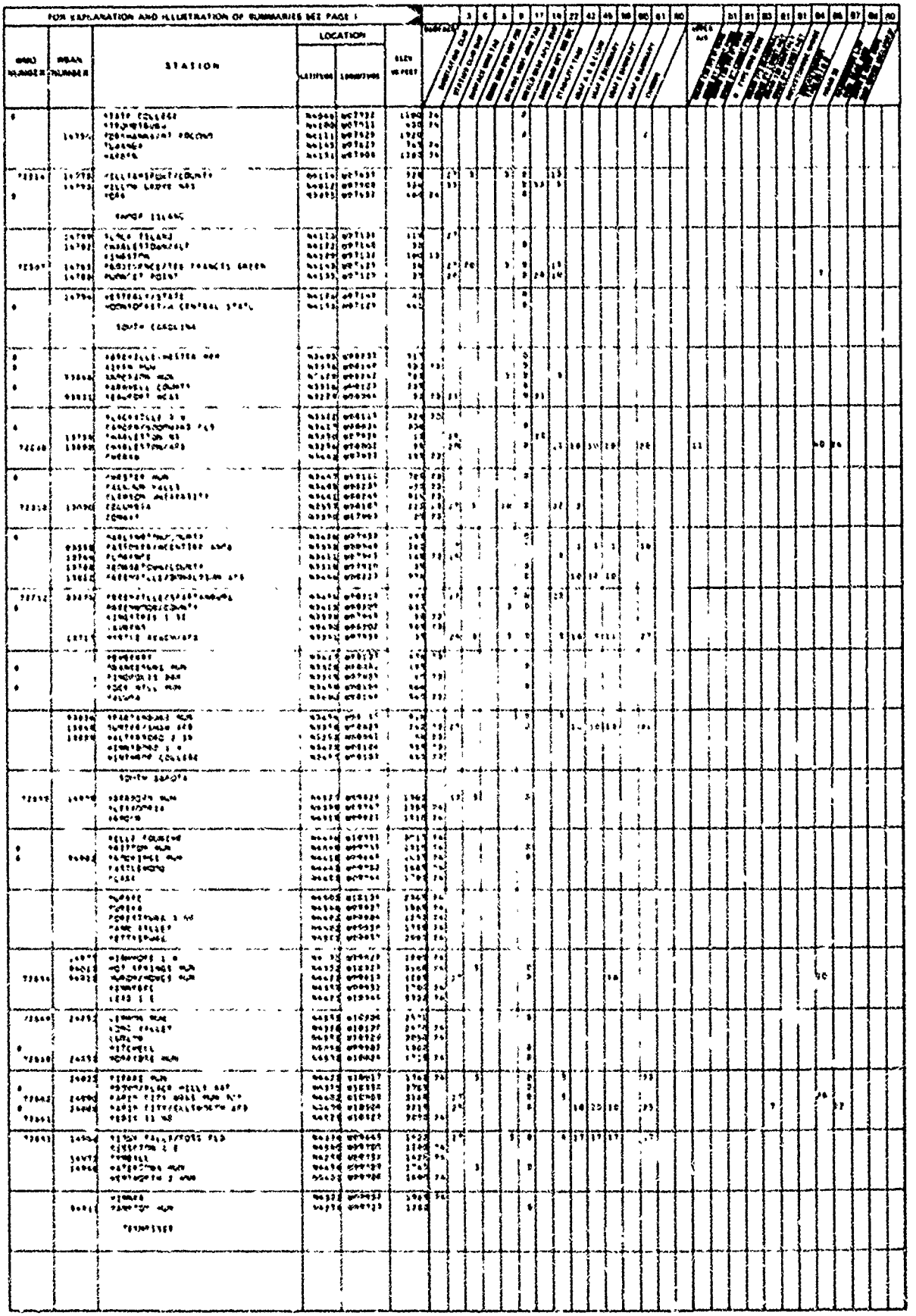
| FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE I | | |





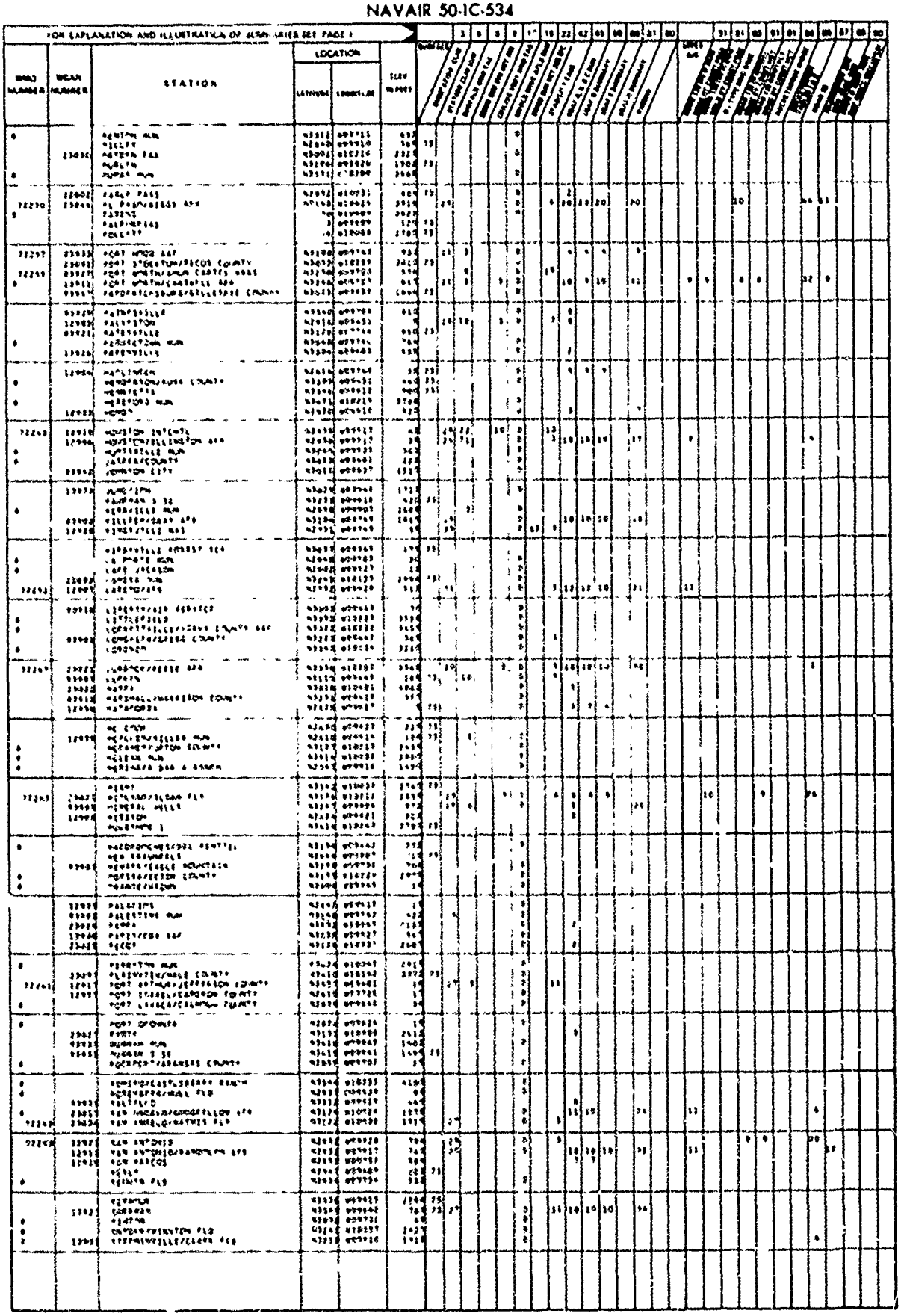


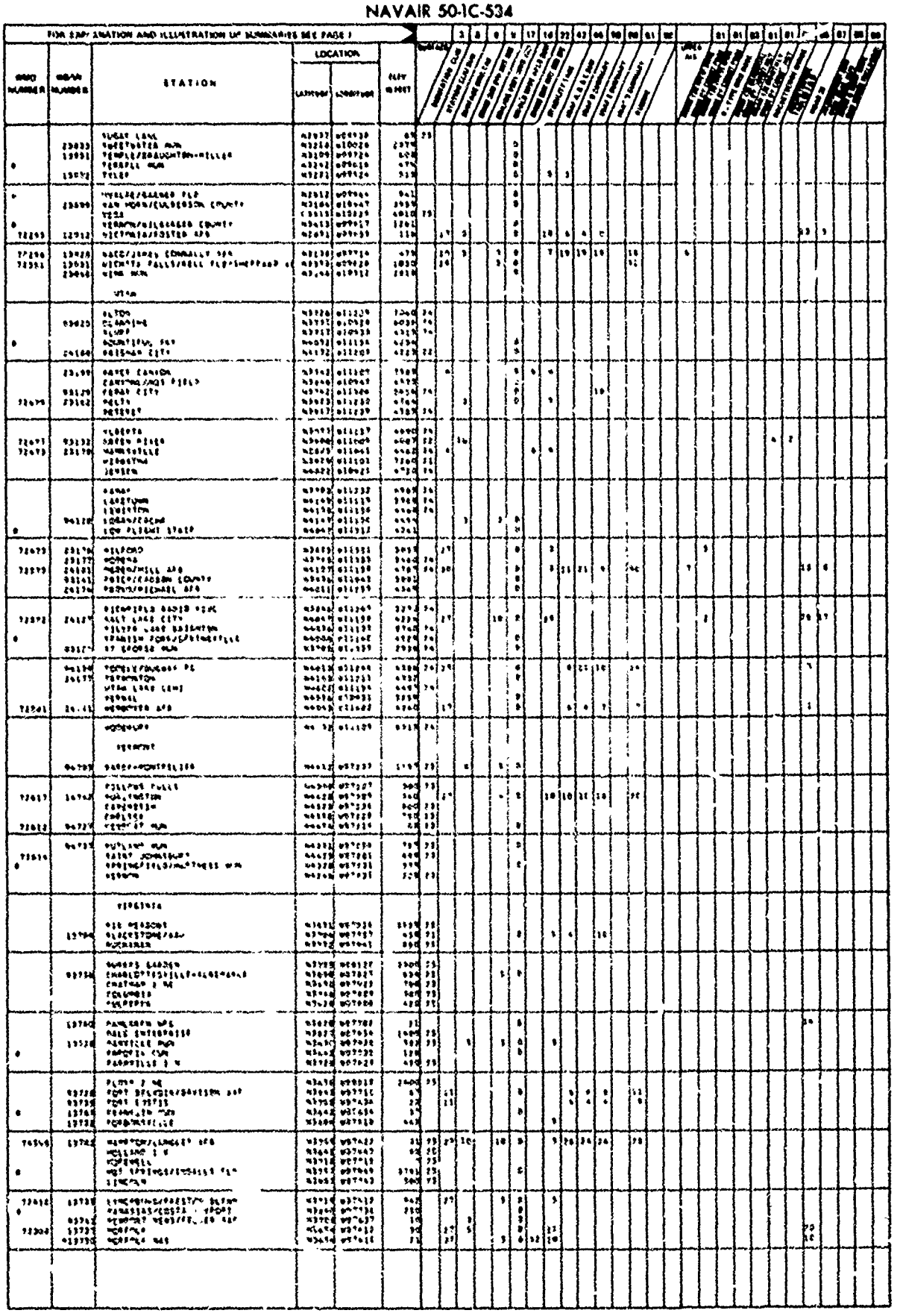




FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION		ELEV (G.P.H.T.)	3	6	9	12	15	22	42	46	48	65	81	88	01	11	21	31	41	51	61	71	81	91	99
			LATITUDE	LONGITUDE																								



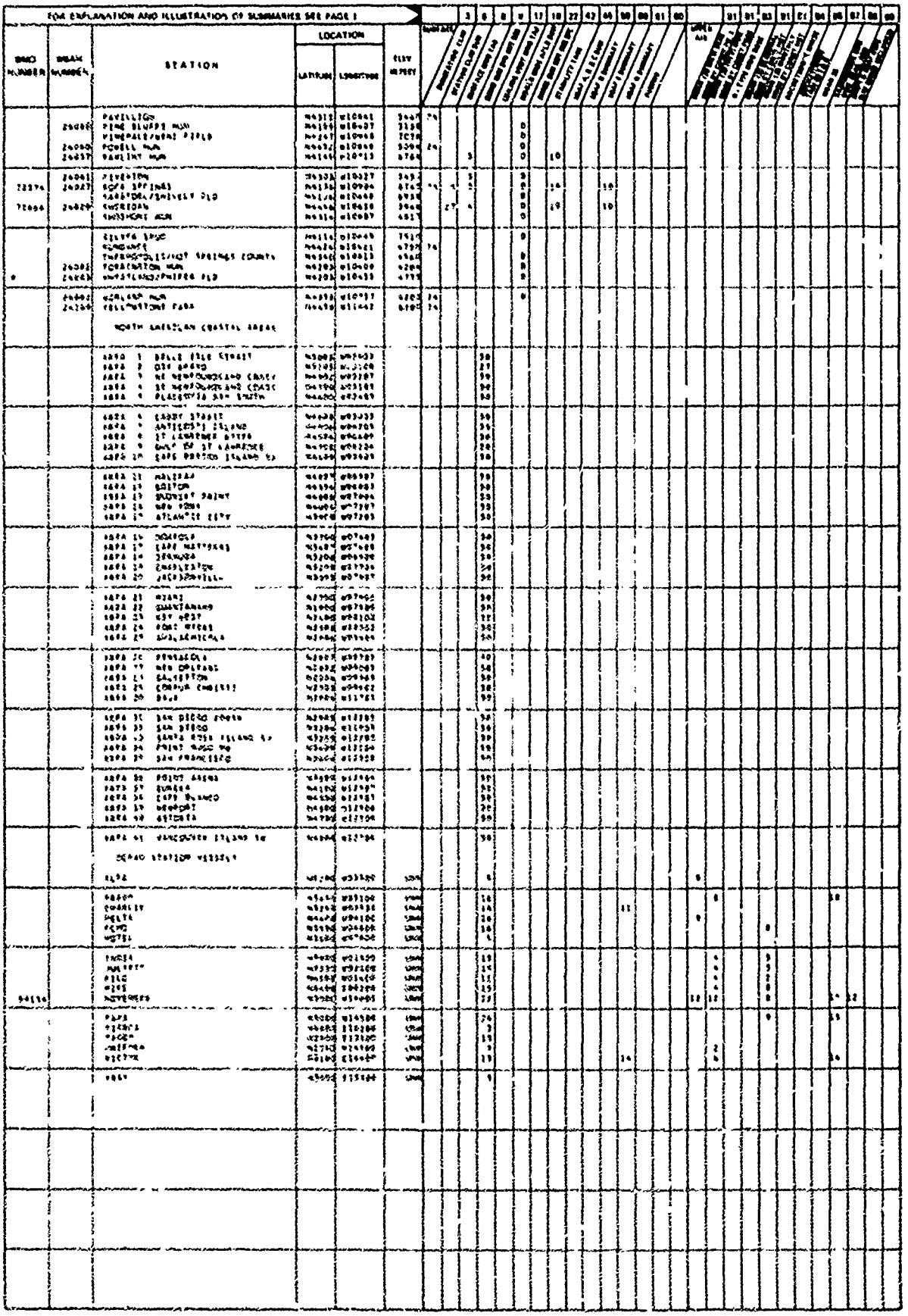


FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV. IN FEET
	13769	ACADIA NAS	N3650	W07601	23
		PENNINGTON GAP	N3643	W08303	1310
	93716	PETERSBURG MUN	N3911	W07721	1040
0	13868	PULASKI/NEW RIVER VALLEY	N3709	W08048	2105
0	13773	QUANTICO MCAS	N3836	W07719	14
	13735	RICHMOND ASO	N3732	W07741	174
72401	13740	RICHMOND/BYRD/BEAL	N3730	W07720	164
72411	13741	ROANOKE	N3719	W07934	1175
		SALTVILLE 1 N	N3653	W08146	1735
0		STAUNTON/SHENANDOAH VALLEY	N3808	W07905	1108
0		SUFFOLK MUN	N3643	W07639	32
	13742	WARSAW	N3758	W07620	25
		WILLIAMSBURG 2 NW	N3745	W07659	50
72402	93739	WILLIS ILLARD	N3631	W07933	8
72403	03738	WINCHESTER/DOLLIES INTL	N3937	W07729	915
0		WILLIAMSBURG/JCC AAF	N3732	W07650	37
		WINCHESTER 3 N	N3910	W07810	726
0		WISE/LONESOME PINE	N3659	W08232	2672
		WORTHING	N3853	W07631	66
		WASHINGTON			
		ABERDEEN	N4610	W12359	19
	94282	ABERDEEN	N4653	W12337	38
	24247	ABERDEEN	N4629	W12709	138
	24217	ABERDEEN MUN	N4647	W12332	158
	24216	ALBERT 1 ENE	N4648	W12309	98
0		ANDERSON/KITTSAP COUNTY	N4739	W12543	488
		BAKERLEY 1 NE	N4710	W12300	669
		BENTHALIA	N4651	W12357	168
	94209	BREMERTON	N4634	W12339	179
		BREMERTON 4 ESE	N4631	W12459	1078
		BURBANK	N4652	W12325	60
		COLFAX 1 NW	N4653	W11723	1918
		COUPEVILLE 1 S	N4813	W12242	98
	24219	DARRINGTON/THE DALLES	N4815	W12109	328
		DARTON 1 ESE	N4618	W11808	1918
	24220	ELLENSBURG MUN	N4700	W12531	1768
		ELMA	N4700	W12328	68
	24141	EPHRATA MUN	N4718	W11930	1215
0	24222	EVERETT/PAINE AFB	N4754	W12211	398
	24209	FORT LEWIS/GAAF AAF	N4708	W12332	398
		GARFIELD 3 SW	N4713	W11733	2300
	94122	HATTON 8 ESE	N4630	W11939	1918
	94227	HOQUIAM/BOWERMAN	N4658	W12358	14
	24223	KELSO/LONGVIEW	N4609	W12301	11
		KENNEWICK	N4612	W11913	358
		LAMBERMAN	N4833	W12158	938
		LAWTON	W4600	W11814	1648
0		LEWIS COUNTY	N4634	W12532	219
		MONROE	N4752	W12129	120
	24110	MOSES LAKE	N4717	W11937	1294
	94233	MOUNT VERNON	N4825	W12322	
		NEWPORT	N4811	W11701	2115
		OMAK	N4825	W11041	1945
72702	24225	OLYMPIA MUN	N4658	W12530	209
72709	94247	OMAK	N4828	W11832	1368
	24218	PASCO MUN	N4818	W11951	628
94291	24218	PORT ANGELES CGS	N4809	W12324	74
	94128	POULSBO/HOSTECO	N4649	W12540	2311
		PULLMAN 2 SW	N4644	W11733	1237
72797	94240	PULLMAN/MT	N4645	W11729	1881
0		PUYALLUP MUN	N4712	W12218	158
	94248	RICHLAND ARC	N4618	W11918	387
		RIMROCK 7 ESE/CH 149	N4630	W12109	2734
0	24244	SEATTLE NAS	N4707	W12219	19
0	24236	SEATTLE/BOEING FLD	N4733	W12318	21
72793	24233	SEATTLE/TACOMA INTL	N4727	W12218	388
72703	24155	SPOKANE IAP	N4737	W11731	2369
	24114	SPOKANE/FAIRCHILD AFB	N4737	W11739	2472
	24227	STAMPEDE PASS	N4715	W12126	3960
94236	24207	STAFFORD/CRIDE APT	N4708	W12329	332
72708	24240	STRONG ISLAND	N4703	W11644	110
72704	24242	TOLEDO	N4634	W12304	368
0		TOUCHET/WALLA WALLA	N4607	W11819	1000
	24115	WALLA WALLA	N4604	W11817	1208
		WAPATO	N4626	W12425	915
	94239	WENATCHEE/PANGBORN FLD	N4725	W12412	1249
	24219	WHIDBEY ISLAND/OAK HARBOR	N4715	W12239	56
72701	24243	YAKIMA MUN	N4634	W12432	1066
		WEST VIRGINIA			
		BECKLEY	N3746	W08031	2379
72412	03879	BECKLEY/RALEIGH COUNTY MEM	N3747	W08107	2504
	03859	BLUEFIELD/MERCER COUNTY	N3717	W08112	2858
		CHARLESTON	N3836	W08124	1484
		CLARKSBURG 5 S	N3918	W08118	598
		ELKINS	N3852	W07913	1410
72414	13866	FAIRMONT/CH	N3928	W08135	982
	03856	FLEMINGTON/BONNIEVIEW	N3921	W08019	1200
72417	13729	HUNTING	N3841	W07821	1978
		HUNTING	N3841	W07206	562
0	93818	HUNTINGTON/CHESAPEAKE APT	N3825	W08235	565
72419	03866	HUNTINGTON/TRI-ST-MILLER	N3842	W08233	618
		KANAWHA/FALLS MIS	N3803	W08753	980

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEVATION (FEET)	STATION TYPE	3	6	0	9	17	18	22	42	46	58	68	81	85
	03896	LORAIN 1 N	N41°31'	W082°01'	670	33													
		WARRINGTON 1 N	N39°23'	W080°21'	975	33													
	13734	HARRISBURG MUN	N40°12'	W076°46'	994	33				3	0	9							
		PITTSBURGH INTL AP	N40°29'	W080°13'	1137	33													
	13736	MORGANTOWN MUN	N39°39'	W079°54'	1248	33		5		9		9							
72427	03804	FORT HILL	N21°19'	W081°09'	1041	33													
	13738	BARKSDALE/WOOD COUNTY	N39°24'	W081°26'	858	33	17			3	0	9							
		PITTSBURGH/MC	N40°30'	W079°57'	1013	20													
		WAYNESBORO LOCK PARK	N39°57'	W080°44'	1044	33													
		STREET	N39°48'	W080°35'	960	33													
		WASHINGTON AP PARK	N39°06'	W077°39'	960	33													
		WEBSTER SPRINGS 1 E	N38°29'	W080°25'	1940	33													
		BELLEVUE 3 SE	N40°10'	W080°03'	668	33													
	14894	WHEELING	N40°11'	W080°39'	1190														
0		WHITE SULPHUR SPRINGS/GREENBRIER	N37°47'	W080°20'	1901	33				4	0	8		4					
		WISCONSIN																	
		JANES	N43°18'	W090°22'	1090	26													
0		DARLING RUN	N41°09'	W080°09'	1211	26						0							
0		EXPLOTRA	N44°18'	W090°27'	750	26						0							
	94949	GENESEO AP PARK	N44°26'	W090°02'	850	26													
0		HAVRE/BELKNAP ISLAND	N48°33'	W109°46'	2460	26						0							
		MOUND	N44°18'	W091°14'	860	26													
		NEW ULM	N44°17'	W094°28'	1250	26													
	94930	PARK RAPIDS	N46°54'	W095°03'	1430					0						4			
0		PLENTYWOOD MUN	N48°46'	W104°34'	2048							0							
		RODEMACHER 1 E	N44°28'	W088°07'	1060	26													
		SPIRIT LAKE	N43°27'	W095°07'	1757	26													
		TURTLE LAKE	N47°32'	W099°08'	1740	26													
		WAUSAU	N44°55'	W089°37'	1196	26													
		WAUSAU	N44°54'	W089°38'	1209	26													
	14991	WAUSAU	N44°54'	W089°38'	1209	26													
		WAUSAU	N44°54'	W089°38'	1209	26													
		WEST BEND	N43°24'	W088°11'	1030	26													
72649	14898	GREEN BAY	N44°29'	W088°08'	668		17			3	0	9	13		9				27
	94898	JANESVILLE	N42°37'	W089°02'	868														
72643	14920	LA CROSSE	N43°54'	W091°15'	672	26	17			16	0	9	13	10	10	10			
72641	14837	MADISON/TRUAX	N43°08'	W089°20'	866		17				0	9	13	10	10	10	22		
0		MANITOWOC MUN	N44°07'	W087°40'	601						0	9							
0		MANITOWOC/MANITOWOC	N44°07'	W087°39'	1019						0	9							
0		MARSHFIELD MUN	N44°39'	W090°10'	1260	26					0	9							
		MENOMO	N44°52'	W091°51'	1470	26													
72644	14851	MILWAUKEE	N43°01'	W087°54'	648		17	9		10	0	9	10	6			22		
	94851	MILWAUKEE/GENERAL MITCHELL	N42°57'	W087°53'	723														
1	14...	MINOCQUA/WOODRUFF	N45°52'	W089°40'	1519	26													
		MINOCQUA/WOODRUFF	N45°52'	W089°40'	1519	26													
		NEW LISBON	N43°52'	W090°13'	1200	26													
		NEW RICHMOND	N45°07'	W092°32'	1150	26													
		NEW RICHMOND	N45°07'	W092°32'	1150	26													
	94818	OSHKOSH	N44°01'	W088°33'	808	26													
		OSHKOSH	N44°01'	W088°33'	808	26													
0		PARADISE	N44°52'	W090°05'	1100	26													
		PARADISE	N44°52'	W090°05'	1100	26													
0		PHILLIPS	N45°42'	W090°24'	1400	26													
		PHILLIPS	N45°42'	W090°24'	1400	26													
0		PLATTEVILLE MUN	N42°44'	W090°29'	1100	26													
		PLATTEVILLE MUN	N42°44'	W090°29'	1100	26													
		PORTAGE	N43°32'	W089°28'	840	26													
		PORTAGE	N43°32'	W089°28'	840	26													
		PRAIRIE DU CHIEN	N43°03'	W091°09'	618	26													
	94818	RACINE 2 S	N42°42'	W087°47'	620	22													
0		RHINELANDER	N45°37'	W089°29'	1589					1	0								
		RICHLAND CENTER	N43°20'	W090°23'	1240	26													
		RIVER FALLS	N44°51'	W092°37'	1000	26													
0		SHAWANO	N44°47'	W088°32'	815							0							
0		SHEBOYGAN	N43°45'	W087°43'	768							0							
0		SPARTA/MC[illegible] AAF	N43°57'	W090°44'	839							0							
0		STEVENS POINT	N44°32'	W089°32'	1160							0							
	94870	STURGEON BAY/[illegible]	N44°50'	W087°25'	720	26						0							
0		SUPERIOR/RICHARD/ BONG	N46°40'	W092°05'	670						0								
0		WATERTOWN	N43°12'	W088°43'	835	26													
0		WISCONSIN/DELLS	N43°37'	W089°46'	1025														
72646	14897	WAUSAU MUN	N44°55'	W089°37'	1209	26				10	0	9		9					
0		WEST BEND MUN	N43°25'	W088°08'	869						0	9							
0		WISCONSIN RAPIDS/ALEXANDER FLD	N44°22'	W089°50'	1019						0								
		WYOMING																	
		WYOMING	N42°58'	W111°04'	6239						0	9							
		ALBIA	N41°02'	W092°48'	1040	26													
		ALTA 1 NNW	N42°41'	W095°21'	1498	26													
		ARLINGTON 3 N	N44°18'	W088°08'	1000	22													
		BIG HORN COUNTY	N44°30'	W107°58'	3932						0								
72577	24164	BIG PINEY	N42°32'	W110°04'	6972						0								
0	24006	BUFFALO MUN	N44°32'	W106°45'	4894														
72569	24023	CASPER	N42°53'	W106°27'	5259		17	9		3	0	9	13	3	10				
72564	94008	CHEYENNE	N41°09'	W104°49'	6144		17	9		3	0	9	16	10	10	10	16	17	17
	24060	CHEYENNE/WATER	N41°39'	W105°09'	5285	26													
0	24049	CODY MUNI	N44°32'	W109°01'	4969			10			0	9							
		COLONY	N44°38'	W104°47'	3555	26													
		DIXON	N41°52'	W106°52'	6560	26													
72566	24019	DOUGLAS/CO - CODE COUNTY	N42°50'	W105°22'	4814			5			0	9							
		DUBOIS	N43°33'	W109°37'	6007	26													
	94154	FORT [illegible]	N44°27'	W107°57'	4099						0	9							
		FORT [illegible]	N44°30'	W104°23'	4350	22													
	24118	FORT [illegible]	N41°23'	W104°49'	6044	22		5			0	9							
		FOSSIL	N41°48'	W110°49'	6855	22													
0		GILLETTE/CAMPBELL COUNTY	N44°21'	W105°31'	4331	26													
		GREEN RIVER	N41°31'	W109°28'	6144	26													
0		HARRISON	N42°15'	W103°43'	6792														
	24136	[illegible]/LARAMIE HOLT	N41°20'	W105°40'	8144	26		5			0								
	24027	LARAMIE	N41°19'	W105°39'	8060	26													
	24157	MEDICINE BOW MUN	N41°52'	W106°19'	7280														
72576	94027	LANDER	N42°49'	W108°43'	5558		17			5	0	9	10						34
	24023	[illegible]	N41°19'	W105°41'	7272	26		5			0	9							
		[illegible]/[illegible]/DIXON	N44°54'	W105°23'	4667	26					0								
0		LUSK MUN	N42°45'	W103°41'	4762	26					0								
72642	24089	MOORCROFT	N44°16'	W104°57'	4213						0	9	7						
0		NEWCASTLE/MONDELL FLD	N43°52'	W104°15'	4164	26					0								



FOR EXPLANATION AND ILLUSTRATION OF SUBHEADINGS SEE PAGE 1

WMO NUMBER	WBAN NUMBER	STATION	LOCATION		ELEV (GROUND)
			LATITUDE	LONGITUDE	
		CENTRAL AMERICA			
		BRITISH HONDURAS/BELIZE			
78486	11623	BELIZE/LANDIVAR	N1731	W08812	3
0		EL CAYO	N1716	W08904	200
78393		STANLEY INTL	N1732	W08810	14
		COSTA RICA			
78762		EL COCO INTL	N0959	W08433	3281
78767		LIMON	N0958	W08301	7
78768	12007	PARRITA	N0931	W08422	23
78769		PUNTA ARENAS	N0955	W08451	10
78763	12606	SAN JOSE/SABANA APT	N0956	W08404	3002
		EL SALVADOR			
78696		ACAJUTLA	N1334	W08936	33
78683		SAN SALVADOR/ILOPANGO	N1342	W08911	2228
		GUATEMALA			
78461	11901	GUATEMALA/CIUDAD	N1435	W09037	4983
0		LA AURORA	N1434	W09034	4663
0		LAS CRUCES	N1447	W09040	792
0		RETALHULEU	N1431	W09141	469
78695	11932	SAN JOSE	N1355	W09056	18
		HONDURAS			
78790		AMAPALA	N1317	W08738	16
78715		CATACAMAS	N1454	W08636	1953
78724		CHOLUTECA	N1318	W08721	304
78781		PUAMALA	N1428	W08835	5
78782	11906	PUERTO CASTILLA MAS	N1501	W08657	9
78711		PUERTO LEMPIRA	N1519	W08448	43
78788		SAN PEDRO SULA	N1526	W08801	240
78717		SANTA ROSA DE COPAN	N1459	W08848	1958
78730		TEGUCIGALPA/TORONCITO INTL	N1405	W08713	3294
78796	11813	TELA	N1546	W08726	37
		MEXICO			
76605		ACAPULCO INTL	N1645	W09954	16
0		ALTAR SONORA	N3240	W11130	1362
76609		CAMPECHE	N1950	W09032	36
0		CANANEA	N3059	W11018	5120
0		CARBONI	N1639	W09749	23
76798		CHETUMAL	N1828	W08830	20
76225	22003	CHIHUAHUA FEDERAL	N2642	W10357	4423
76269		CIUDAD CARMEN	N1839	W09150	328
76479		CIUDAD JUAREZ	N3140	W10625	3946
76248		CIUDAD OBREGON M	N2723	W10956	728
76491	12948	CIUDAD VICTORIA	N2342	W09909	1066
78761		COATZACOALCOS	N1709	W09424	46
76468		COTONES	N1703	W09634	39
76612		CUAUTLA MOR	N1848	W09918	1854
	22104	DURANGO GOMEZ	N2732	W10346	4134
76458	93194	ENSENADA	N3151	W11629	240
76606		FRANCISCO CARBO	N1646	W09955	1968
76613	22095	GUAYMAS/SOSA	N2751	W11053	3184
76283		HUATABAMPO	N2737	W10939	36
76768		HUEHUETOCA	N1940	W09911	2264
76191		ISLA GUADALUPE	N2901	W11819	1312
76596		LAZARO CARDENAS	N1758	W10234	33
76595		LA PAZ MX	N2405	W11217	85
76461		LOS MOCHIS	N2548	W10830	37
76454		MANZANILLO	N1906	W10846	26
76399		MATAMOROS INTL	N2548	W09731	26
76498	12004	MAZATLAN	N2311	W10625	138
76643	14.678	MERIDA	N2057	W09901	24
76605		MEXICALI	N3239	W11427	19
76781		MINATITLAN	N1758	W09431	95
76362	22015	MONCLOVA (CAMILO	N2649	W10127	1760
76393	22012	MONTERREY	N2535	W10016	1478
0		NAVOJOA	N2725	W10925	121
0		NOGALES GENERAL	N3119	W11139	4044
76122		ACAPUTO CASAS GRANDES	N3024	W10752	4488
76296		NUEVO LAREDO	N2732	W09930	418
76773		OAXACA	N1659	W09643	5015
0		PALAPEZ DE HACRO	N3042	W10649	4918
0		PIE DE LA CUESTA	N1615	W10001	20
76459		PORTA ANGEL	N1546	W09629	934
76681		PT VALLARTA MEX	N2043	W10515	16
76689		PUEBLA MILITARY	N1900	W09810	7700
76401		PUERTO CORTES	N2628	W11131	29
76263		PUNTA PENASCO	N3122	W11146	39
0		REFORMA	N2640	W09917	324
76549		SINA IA	N2518	W09751	78
76633		SALINA CRUZ	N1612	W09512	184
76539		SAN LUIS POTOSI	N2210	W10459	6150
0		SANTA LUCIA MX	N1946	W09928	7500
76723	03103	SOCORRO ISLAND	N1848	W11057	131
76459	12953	TUXTLA GUTIERREZ	N1626	W09913	2438
76479	11952	VERACRUZ/MEXICO CITY	N1908	W09612	7966
78959		YUCATAN/MERIDA	N2058	W08925	656

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION Latitude	LOCATION Longitude	ELEV in FEET
76220		TEMOSACHIC	N2657	W10750	5084
0		TIJUANA	N3232	W11659	305
76302		TORREON COAHUILA	N2534	W10325	3773
76840		TUXPAN	N2057	W09723	8
76692	11904	VERA CRUZ	N1911	W09607	54
76150		VILLA ANGOSTA	N2038	W10631	5440
76743		VILLAHERMOSA	N1840	W09258	10
0		YAPOPAN	N2041	W10327	1335
		NICARAGUA			
76749	11850	ALMIRANTE	N0920	W08230	135
0		CAPE GRACIAS	N1500	W08510	10
76748	11853	CORINTO	N1229	W08731	10
76741	11852	MANAGUA LAS MERCEDES	N1207	W08611	164
76750	11810	PUERTO CABEZAS	N1436	W08329	49
		PANAMA AND CANAL ZONE			
76806	12803	BALBOA CE	N0855	W07954	134
76807	12701	BALBOA/ALBROOK	N0856	W07921	31
	12702	PANAMA	N0858	W07857	10
76793	12713	COLON CE FORT SHERMAN	N0922	W07954	13
76794	12706	FORT DAVIS	N0923	W07953	10
76772	12704	MADDEN	N0923	W07927	87
76796	12710	PORT AMADOR/PANAMA CITY	N0856	W07930	30
76812	12709	RIO HATO	N0822	W07819	10
	12707	LA CHORRERA	N0851	W07947	167
	12729	MARINA BAY	N0911	W07930	372
0		MARINA A GALLARDO	N0838	W07932	30
	12708	PACORA	N0858	W07916	13
76810	12682	PORRO	N0755	W07809	69
76809	12758	REY ISLAND	N0816	W07935	78
76892	12683	RIO HATO	N0822	W07909	10
0		TOCUMEN NATIONAL	N0905	W07923	134

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GROUND) (METERS)
		WEST INDIES			
		ARUBA, CURACAO AND BONAIRE			
78960		ORANJESTAD/BONAIRE	N1209	W06917	18
78962	11703	PRINCES QUARTER/ARUBA	N1232	W07001	33
78961	11947	SAINT JOHNS/COOLIDGE FLD ANTIGUA	N1707	W06157	33
78988	11943	WILLEMSTAD/CURACAO	N1211	W06858	28
		BAHAMAS AND TURKS ISLANDS			
78109	12709	ABRAHAMS BAY/MAYAGUANA ISLAND	N2221	W07230	
78076	12713	FORFIN HILLS/CLEUTHERA	N2516	W07618	17
78107	12719	FLAMINGO HILL/MAYAGUANA ISLAND	N2222	W07302	
78063	12712	GOLD ROCK CREEK/GRAND BAHAMA IS.	N2637	W07722	10
78118	12714	GRAND TURK	N2127	W07109	14
78073	12710	NASSAU INTL	N2502	W07728	
78069	12716	SAN SALVADOR/BUKKEFISH BAY	N2404	W07632	37
78117	12702	SOUTH CAICOS	N2129	W07131	14
		BERMUDA			
78010	13602	KINDLEY AFB NO 2	N3218	W06451	27
78016	13601	ST GEORGE/KINDLEY AFB	N3222	W06441	22
		CARIBBEAN COASTAL MARINE AREAS			
		AREA 1 BRITISH HONDURAS	N1755	W08705	
		AREA 2 CIUDAD DEL CARMEN	N1909	W09202	
		AREA 3 VERACRUZ	N1909	W09610	
		AREA 4 CAPE ROJO	N2109	W09649	
		AREA 5 YUCATAN	N2209	W08825	
		AREA 6 ISLA DE PINOS	N2139	W08252	
		AREA 7 CAYMAN	N1900	W08000	
		AREA 8 JAMAICA WEST	N1800	W07748	
		AREA 9 JAMAICA SOUTH	N1700	W07700	
		AREA 10 JAMAICA NORTH	N1800	W07700	
		AREA 11 JAMAICA SOUTHEAST	N1700	W07606	
		AREA 12 HISPANIOLA SOUTH	N1750	W07120	
		AREA 13 WINDWARD PASSAGE	N2000	W07406	
		AREA 14 GRAND BAHAMA	N2605	W07705	
		AREA 15 NASSAU	N2502	W07730	
		AREA 16 SAN SALVADOR	N2400	W07400	
		AREA 17 ACKLINS ISLAND	N2210	W07302	
		AREA 18 HISPANIOLA NORTH	N1950	W07000	
		AREA 19 SANTO DOMINGO	N1830	W06900	
		AREA 20 MONA PASSAGE	N1800	W06800	
		AREA 21 PUERTO RICO SOUTH	N1700	W06600	
		AREA 22 PUERTO RICO NORTH	N1900	W06600	
		AREA 23 VIEQUES	N1840	W06400	
		AREA 24 VIRGIN ISLANDS	N1800	W06400	
		AREA 25 LEEWARD ISLANDS	N1830	W06230	
		AREA 26 WINDWARD ISLANDS	N1500	W06000	
		AREA 27 TRINIDAD	N1050	W06130	
		AREA 28 BARCELONA	N1040	W06500	
		AREA 29 CARACAS	N1030	W06700	
		AREA 30 GULF OF VENEZUELA	N1200	W07000	
		AREA 31 BIRMINGHAM	N1200	W07700	
		AREA 32 CARTAGENA	N1100	W07600	
		AREA 33 COLON	N1020	W07900	
		AREA 34 GULF OF PANAMA	N0900	W07900	
		AREA 35 GALAPAGOS ISLANDS	N0000	W09000	
		CUBA			
0		ANTILLA/ORIENTE	N2052	W07440	10
0		ANTILLA NACEO	N1930	W07430	21
78268		HABANA/ORIENTE	N2300	W08220	59
78310	12975	CAYO DE SAN ANTONIO/PINAR DEL RIO	N2152	W08458	9
78295	12788	CAYO PAREDON GRANDE	N2125	W07752	20
0		PAMPILLO CIENFUEGOS	N2226	W07956	32
0		PUNTA LIMONTAS	N2345	W08329	6
78266		SIERRA MAESTRA/SANTA CLARA	N2220	W08020	1466
78267	11704	GUANTANAMO BAY NAS	N1954	W07909	9
78323	12844	HAVANA/HAVANA MUNICIPAL OBSERVA.	N2309	W08210	59
78262		MORTON	N2304	W08218	59
0		JAIME GONZALES	N2256	W08024	109
78274		SANTA CLARA INTL/MANUEL MORENO	N2230	W08524	210
0		PANAMA	N2300	W08113	9
0		LEEWARD POINT	N1954	W07922	9
0		LOS CANOS	N2002	W07909	20
0		MANZANO	N2256	W08216	375
0		MANUEL CANO	N2300	W08244	18
0		MC CULLA FIELD	N1954	W07909	9
0		PLAYA GIRON	N2300	W08234	64
78269		PUNTA MULATO/ORIENTE	N2018	W07409	21
0	12805	SAN ANTONIO/PINAR DEL RIO/SEMMS	N2253	W08230	134
0	12823	SAN JUAN/PINAR DEL RIO	N2239	W08409	124
78315		SANTA LUCIA/PINAR DEL RIO	N2227	W08540	184
78264		SANTIAGO DE CUBA/ORIENTE	N2002	W07651	212
		DOMINICAN REPUBLIC			
78492		BARAHONA	N1812	W07109	113
78478		PARC ESTANG ANTONIO	N1833	W06820	30
0		PUERTO A	N1844	W07043	3529
0		AZUCAR	N1958	W07140	209
0		PUP PUJU CLO	N1830	W06946	54

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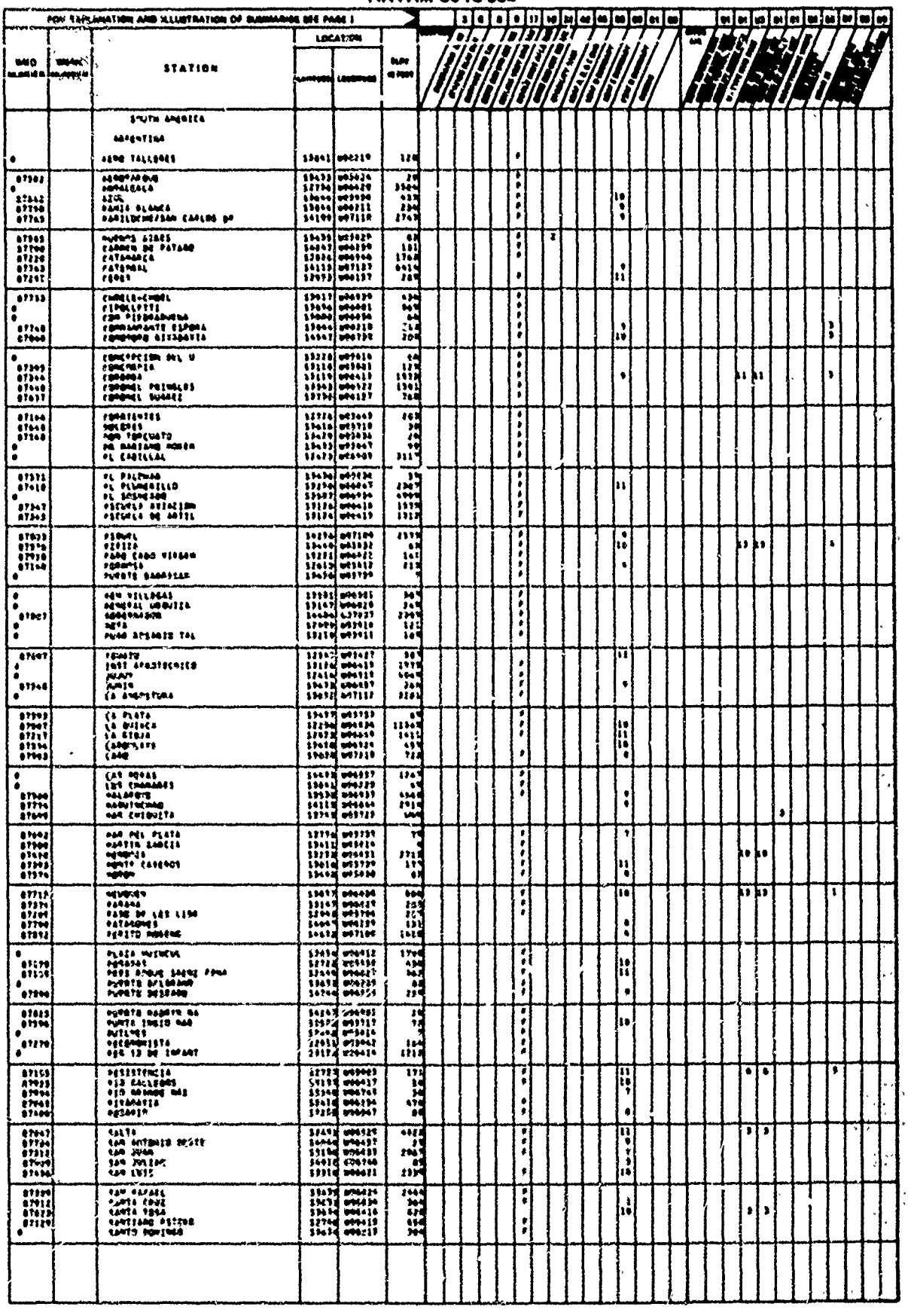
WMO NUMBER	ALAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET																								
78697	11711	PUERTO PLATA	N1943	W07040	33											12													
78682		PUNTA CAUCEDO IN	N1825	W06940	54																								
78667	11668	CAPANA DE LA MAR	N1952	W06923	66											3						9			6	9			
78686		SAN ISIDRO AS	N1830	W06947	112																								
78660		SANTIAGO	N1928	W07040	450																								
78686	11659	SANTO DOMINGO	N1828	W06953	59											7									54				
		HAITI																											
0		PETIONVILLE	N1831	W07217	1313																								
78639	11701	PORT AU PRINCE/BOWEN FIELD	N1833	W07221	93								3			8				8					1				
		JAMAICA AND CAYMAN ISLANDS																											
78304	11815	FAMO CAYMAN	N1916	W08127	10																	8	8		23				
78307	11704	KINGSTON/JAMAICA	N1756	W07717	10								7	7	7	7						8	8		20				
78308		MONTEGO BAY INT.	N1630	W07754	4																								
		MARTINIQUE AND OTHER ISLES																											
78929		PORT DE FRANCE/MARTINIQUE	N1436	W06106	10											11				11									
		PUERTO RICO AND VIRGIN ISLES																											
78916	11603	AGUADILLA RANGE AFB	N1828	W06708	224		29					3	23	23	10	16	26												
	11618	ARECIBO 2 SE	N1827	W06647	19	22																							
		CULEBRA	N1819	W06529	60	22																							
		FAJARDO	N1826	W06539	40	22																							
		HUMACAO	N1809	W06550	30	22																							
		TOABAJA SUBSTATION	N1825	W06704	420	22																							
0		VIEQUES AIRPORT	N1837	W06601	4																								
0		LOIZA	N1825	W06538	35																								
0		PERCHA	N1802	W06633	28																								
78920	11607	PONCE	N1801	W06632	32	22							3	3		6													
78953	11636	MERCEDITA/PONCE MAP	N1815	W06630	34		24					30	3			2													
78947	11632	SAINT CROIX	N1746	W06446	33		5						9	3							10								
78926	11611	SAN JUAN	N1828	W06606	72		21						15	9	9	9		9					10		89	84			
0	11618	SAN JUAN AS	N1829	W06607	63											11									4				
78963	11644	ST THOMAS/TRUMAN FLD	N1820	W06455	11								3												6				
78901	11207	VIEQUES	N1724	W06558	39		19															20	25		80				
0		VIEQUES	N1804	W06429	45																								
		ST THIERRY, LA GUADELOUPE																											
78894		GUSTAVIA/ST. BARTHELEMY	N1754	W06252	171											11				6									
78917	11645	POINT A PITRE RAIZET/GUADELOUPE	N1618	W06131	29											12							6		38	7			
		ST. CHRISTOPHER																											
78957	11622	BASSETERRE/ST KITTS	N1716	W06243	20											6													
		ST. LUCIA AND ST KITTS																											
0	11568	BASSETERRE/GOLDEN	N1718	W06237	35											5													
78968	11628	CASTRIES/ST LUCIA	N1600	W06100	813											8													
78954	11568	HEAD STRADELL/BASSETERRE	N1720	W06230	197																			2	1	84			
0	11601	SAINT LUCIA	N1300	W06037	20								7		7										4				
78967		VIEUX	N1401	W06059	92																								
		ST. MARTIN AND ST EUSTATIUS																											
78973		PHILIPSTAD/ST. EUSTATIUS	N1?.?	W06259	133											4													
78966	11645	SAINT MARTIN/ST. MART?N	N1804	W?6?00	10											4							9		53	6			
		TOINIIAS																											
78963		PHILIPSBURG/TOWARD IT	N1801	W06137	43																								
78970		PIARCO	N1038	W06130	44																								
	11616	TRINIDAD/WALLER AFB	N1037	W06113	134								4	9	8	9									86				


FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1
WMO NUMBER
STATION
LOCATION
LATITUDE
LONGITUDE
ELEV. OF RDNG
SOUTH AMERICA
ARGENTINA
ISLAS FALKLANDS
ESTANCIA
PUERTO ARGENTINO
PUERTO DARWIN
PUERTO HOWARD
PUERTO SAN CARLOS
PUERTO STANLEY
RIO GALLEGOS
SAN JULIAN
SAN LUIS
SANTA CRUZ
SANTIAGO ESTERO

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WBAN	WBAN	STATION	LOCATION		ELEV
			LATITUDE	LONGITUDE	
03693		TALLER REGIONAL	33305	096416	1378
03665		YARBIL	33714	093216	374
		YAZTOSEL	32229	096147	1473
03720		YBELYN	34334	096119	128
03720		YUCUMAN	32656	096517	1378
03736		[illegible]	33648	095419	68
03716		VICTORIA	33613	096523	1024
		VILLA MERCEDES	29303	096029	1066
		[illegible]			
		[illegible]			
03101		APPLIN	31403	096036	4334
03173		ASCENSION DE GUARATOS	31342	096303	810
03315		ZAPIAL	33046	096339	2998
03302		ZAPAMANA	31936	096729	13517
03041		ZAPIJA	31134	096444	813
03223		[illegible]	31723	096610	3367
03196		[illegible]	31618	096703	426
03033		[illegible]	31846	096122	1
03201	31631	LA PAZ/EL ALTO	31632	096410	1
03242		[illegible]	31936	096730	12139
03243		POTOSI	31603	096143	13130
03239		PUERTO SUAREZ	31617	095732	523
03063		RIBERALTO	31156	096603	566
03236		ROBORE	31822	095947	966
03161		[illegible]	31618	096733	636
03201		SAN IGNACIO DE VELASCO	31622	060029	1234
03196		SAN JOAQUIN	31806	096440	636
03243		SAN JOSE	31751	096047	13638
03243		SANTA CRUZ/EL TROMPILLO	31521	096315	1434
03203		SUCRE	31945	096916	9191
03344		TARIJA	32132	096447	8258
03233		TORRE SANTOS	31643	096100	904
03196		TRINIDAD	31645	096440	774
03222		URIAT	31603	096649	12961
03264		VALLEGRANDE	31826	096407	6903
03273		[illegible]	32207	096434	11314
		[illegible]	31757	096706	12139
03343		YACUIBA	32221	096503	1968
		[illegible]			
		[illegible]			
		[illegible]			
03230	13944	[illegible]	30241	095057	37
03604		[illegible]	32638	052349	3112
03673		[illegible]	34111	095203	1027
03209		[illegible]	28554	053316	1063
03240		[illegible]	31354	052021	37
03609		[illegible]	32119	096344	3439
03271		[illegible]	31536	096416	269
03246		[illegible]	31204	054106	2493
		[illegible]	31121	096310	1329
13732		[illegible]	32720	054903	2004
		[illegible]	31638	096030	1460
03201	99681	[illegible]	29128	096027	39
03303		[illegible]	31698	096436	1012
03290		[illegible]	31933	096424	1407
		[illegible]	32142	096110	72
03277		[illegible]	31931	096736	3681
03648		[illegible]	31643	052741	307
03230		[illegible]	31634	096229	2031
03229		[illegible]	32736	096706	2101
03248		[illegible]	32251	096522	137
03611		[illegible]	32627	053437	1061
03605		[illegible]	32153	096152	63
		[illegible]	32053	052111	29
03640		[illegible]	31730	052013	13
03743		[illegible]	30735	096728	642
03518		[illegible]	31618	096730	2735
03675		[illegible]	30492	096421	737
		[illegible]	40346	052101	29
03706		[illegible]	32330	096639	2631
03532		[illegible]	31490	052729	476
03361		[illegible]	31933	053606	261
03728		[illegible]	31826	096439	2359
03642		[illegible]	32426	096916	1114
03230		[illegible]	31616	096329	6183
		[illegible]	31236	052025	43
03640	96301	[illegible]	30259	052229	124
03607		[illegible]	32733	096639	85
03707	96302	[illegible]	32546	052039	43
03746		[illegible]	32240	096416	20
03603		[illegible]	34643	053631	2763
03649		[illegible]	32619	096617	10
03623		[illegible]	31643	096917	2462
		[illegible]	31538	052204	1268
03548		[illegible]	29549	096427	499
		[illegible]	31096	052100	20
		[illegible]	29057	053423	36
		[illegible]	32746	054033	14
03310		[illegible]	31632	052002	15
03306		[illegible]	31536	096421	1444
03790		[illegible]	32736	052152	92
		[illegible]	32611	096447	3
		[illegible]	30124	096427	69
03766		[illegible]	32328	052150	1878
57331		[illegible]	30308	096041	164

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GNIS NUMBER	DMAH NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (FEET)	3	6	9	12	15	18	21	24	27	30	33	36	SUMMARIES	01	02	03	04	05	06	07	08	09
03729		[illegible]	51336	0964138	2548					7																	
03437		[illegible]	51643	0964349	2144					9																	
02596	90954	NATAL	195306	0953112	28					9		4		9					2			1		4	7		
07994		PALMARES/ACCEIO	104440	0953447	335					9																	
03283		[illegible]	51495	0964337	2946					9																	
02107		PARNAIBA	102536	0964149	16					9																	
		PELOTAS	131644	0952220	56					9																	
02993		PETROLINA	090213	0964429	1233					9																	
		PILAR/BARREIRAS	104459	0953534	426					9																	
01346		PINTA MARTINS	103406	0953822	84					9																	
03401		PIRAPORA	151721	0964434	1063					9																	
		PIRENOPOLIS	151151	0964038	2447					9					7												
		PONTA PELADA	101306	0953919	276					9																	
03947	92981	PONTA ALEGRE	125937	0953206	68					9									2					4	7		
03661		PONTA PECINHAL	151613	0964028	783					9																	
		PORTO NACIONAL/BARRA DO [illegible]	151514	0953339	1575										3												
03713		PORTO NACIONAL PALMA	122246	0951127	1468					9																	
02344		PUTINHANDOBA	105112	0953918	638					9																	
01909	90928	RECIFE	150007	0954459	16					9		3		9					10					33	8		
02913		RIO BRANCO	140316	0960146	246					9					5												
03743		RIO DE JANEIRO	122254	0954310	16					7											4						
03903		RIO PARDO	152702	0953204	16					7																	
		SALGADO FILHO	125019	0952110	12					7																	
03229		SALVADOR/BAHIA	125256	0952031	36					7											7						
03369		SANTA ANDREUS	123738	0953359	1572					7																	
03423		SANTA FERREIRA	104414	0964012	243					9																	
03427		SANTA LUZIA/LUISANIA	154134	0963156	2788					9					4												
03936		SANTA MARIA	125423	0953343	278					9																	
03494		SANTA MARIA DAS [illegible]	115134	0953706	13					9																	
		SANTA RITA	104705	0953437	154					9																	
02263		SANTAREM	102177	0954402	242					9																	
03782		SANTOS	123134	0964618	16					9																	
		SANTOS DUMONT	122304	0964304	16					9																	
03474		SAO FRANCISCO	126134	0964438	26					9																	
02290	90468	SAO LUIZ	142337	0964417	164					9		3		9	6									2			
03701	92482	SAO PAULO	123331	0964437	2368					9											4			7	4		
		SERRA NEGRA/BOA [illegible]	130444	0964929	442					9																	
03302		SOBRAL	123512	0964221	210					9																	
03161		TOURO	140648	0964439	26					9					6												
03761		UT EAVI	122154	0964543	16					9																	
03402		VAO FIELD (TOA)	121948	0964128	1279					9																	
02378		VEREZINA	140505	0964249	279					9					10												
		VIDIGAL	142115	0964114	177					9																	
03010		VOES LAGOA	132047	0953103	1065					9					6												
03577		XAPURI	114048	0964737	259					9																	
03333		[illegible]	114018	0964414	3017					9																	
03262		[illegible]	113028	0953914	1263					9																	
		[illegible]	123046	0964709	2128					9																	
03648		VITORIA	120112	0964617	13					9																	
		[illegible]																									
03836		ALTO PARIMA	040538	0971149	498										9												
03818		[illegible]	041146	0971748	98										3												
03662	91782	[illegible]	123216	0971619	494					9					11				9					32	32		
03640		[illegible]	114038	0971219	328					9					11												
03861		[illegible]	040526	0971748	39					9					3												
03836	89782	BARRA CATALINA/PONTA GROSSA	113102	0971836	18					9					10									5			
03849		PARC ARIPS	144148	0971136	132					9					4												
03646		CALDERAS	113707	0971619	46					9																	
03913		PEDRO PAIVA	134618	0971236	2834										3												
03934		PRAIA MOLE/CAMPOS [illegible]	135346	0972637	16					9					4												
		PRAIA/SITTA	114116	0972328	33					9																	
03940		PRAIA	140758	0972749	16					9					4												
		PRAINHA/ATA	132716	0972826	959					9																	
03660		PRAINHA	126218	0972827	36										5												
03846		PRAIA CRICO	144346	0971149	1253										4												
03672		PRAIRIA	134726	0972202	2051										11												
		PRAINA	133116	0971442	1034					9																	
03663		PRAINHA/ATA	134646	0972927	49					9					7												
03670		PRAINHA	127228	0972826	1214					9					4												
03866		PRAINHA/ATA	134616	0971133	439										5												
03646		PRAINHA/ATA	132746	0972825	14378										6												
03629		PRAINHA	134116	0971113	748					9					6												
03972		PRAIA/ATA	134126	0964844	139										9												
03963		PRAINHA	133116	0971113	668																						
03993		PRAINHA/ATA	133346	0971941	1963										5												
		PRAINHA	140128	0972946	343					9																	
03990		PRAINHA/ATA	132746	0971443	194										5												
		PRAINHA	134346	0972727	424					9																	
03697		PRAINHA	134946	0972837	59										10												
		PRAINHA	134641	0971749	79					9					8												
03617		PRAINHA	134218	0972946	37					9					9												
03649	62661	PRAIA DE PARACURU	143116	0139426	134										9									38			
03732		PRAIA	134726	0972354	7										10												
03990		PRAIA	133216	0971949	196										10												
03963		PRAIA	133111	0971930	16										11												
03962		PRAIA	133216	0971439	2116					9																	
03963		PRAIA	133146	0971949	126178										6												
03660		PRAIA	132946	0971115	169					9					6												
03878		[illegible]	124426	0964639	413										10												
03767		[illegible]	134946	0971316	43					9					10												
03647		[illegible]	133136	0971139	815					9					7												
03838		[illegible]	134926	0971147	1063										9												
03907		[illegible]	134716	0971246	528										9												

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION		ELEV GROUND
			LATITUDE	LONGITUDE	
03940		LOS ANGELES	33256	118037	2677
03703		LOS ANGELES	33726	118222	438
07379		LOS ALAMITOS/SANTIAGO	33346	117262	1446
03418		LOS FONDORES	32813	117249	1706
03743		MARATHON	33443	117230	314
		MONTEREY	32423	119427	11393
03920		NAPA	32309	119419	1172
03909		NIPOMA	33033	120111	1258
93161		NORTH ISLAND	32426	117029	9300
03962		NUEVO AVIARI	34334	117242	39
03937		NUEVO EAGN	34006	117129	28
03961	94791	NUEVO MONTILLA CHANTIA	34130	117232	18
03967		NUEVO WILLIAMS	33436	116429	26
03230		NUEVA ANGELES/VALPARAIS	34031	117130	135
03933		NUEVON	34118	117343	15
23243	93781	OCEANSIDE	33431	117122	4
03964		OCEANSIDE/STOCKTON	33403	117023	2276
03963		OLIVE CITRUS	34443	117200	2293
		OLIVE PERRANDO	33433	117138	1146
03946		OLIVE PEDRO II.	34133	117437	75
03977		ONTARIO	33338	117043	1706
03763		ORANGE/PALOMINO	33846	117239	374
		ORCHILLA	32230	117001	3406
03727		ORO/NUPO	33813	117241	402
03966		OSILLIMAN	33833	117044	1134
		OCEAN ISLA NATIONAL/WALAI	33103	116439	28
		ESCONDIDO			
03991		OLTO CHRICHE	33703	117 139	986
03114		OAKLEY	33431	117103	4563
03909		OCEANA	33703	117044	438
03211		OAKMONT	33432	117141	3308
03991		OCEANSIDE/OCEANSIDE	33703	117221	333
03920	11709	OCEANSIDE/ESCONDIDO	33103	117107	44
03222	10717	OCEANSIDE/ELSINORE/TEMEC	33443	117109	8268
03993		OCEANSIDE	33703	117229	7998
03292		OCEANSIDE	33433	117211	38
03259		PALISPORTS AIRP	33432	117024	3168
03922		PARTIZANA	31078	117139	24
03944		PENDAL	34037	117117	49
		PERRIS	33143	117134	1411
03906		PESCADERO/CAZADERO	33133	117231	1813
03241		PINE RIDGE	33137	117111	1065
03215		PL PASO	33431	117021	719
03219		RIVERSIDE	33416	117140	948
		ROMEO AFF	33313	117141	1556
03220		ROSALES	33033	117152	1068
03243		LA ROSITAS	33133	117144	1302
03208		LOTTERIA	33433	117039	373
		CAPE O SONNE NIR	33433	117134	1226
		SAN F PINTO	33411	117120	1823
		SANDIA	33444	117111	3179
		SANTA PINAL NOAA	33313	117138	3134
03210		SEPULVEDA	33611	117134	4419
23241		SITU	33139	117103	344
03943		SONOMA	33433	117143	2
03913		SPIRO	33233	117113	1448
03909		STO	33433	117144	2001
93196		SALAMANDRE/SANTA B	33432	117139	36
03242		PASTA	33113	117114	5921
03900		PATO	33128	117134	218
03216		SEQUOIA	33443	117143	4581
03942		SEQUOIA	33113	117134	3343
07144		SUTRO	33433	117142	216
03901	11814	SAN MARKS ISLAND	33133	119114	20
03979		SAN MARCOS CO	33033	117113	17
03909		SANTA MARIA	33113	117119	238
03233		TULARE	33433	117131	3735
03236		TUMACO	33113	117143	19
03943		TUNES	33433	117142	7
03234		TILLAMOOKE/TAMALPAIS	33433	117134	1338
		TEMPOR			
04139		CHINCA	34133	117109	8291
04013		PLAY ALAMO	31013	117224	38
04017		PENDALDAS	33433	117140	33
	93993	PASCADARES ISLAND	33613	117133	33
		PEN MAINLAND PASS	34313	119039	33
04139	94741	PUNTARITA/SIMON BOLIVIA	34218	117053	13
		MALIBU	34139	117132	2134
04011		MANTA	33913	117044	13
04139		PICOTALINDUR	34134	117129	23
04139		PUNTARITAS	34134	119 0414	164
04134		PUYO	33	117103	3423
04043		PUSTA/PASTURAL SUCRE	34033	117129	4233
04134		RIPARIA	34134	117134	9934
04111	94001	RAILROAD	34113	117134	33
04000	94004	SAN CRISTOBAL/BALBOA SUCRE	34434	117103	3
04134		SAN LORENZO	34113	117134	9
		SICOR	34213	117143	33
04044		SULCIN	34433	117142	34
		TERMIN BUTANE			

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (F)
81403	12901	CAYENNE/ROCHAMBEAU	4°49'N	052°22'W	26
81402		CAMOPI	3°09'N	052°26'W	443
81415		MARIPASOULA	3°23'N	054°02'W	328
81406		SAINT GEORGES	3°53'N	051°49'W	23
0		SAUL	3°37'N	054°32'W	850
81402		ST LAURENT DU MARONI	5°30'N	054°02'W	16
		GUYANA			
81402	12902	GEORGETOWN/GEORGETOWN/TIMEHRI	6°48'N	058°09'W	35
81110		MACAPA	0°04'N	051°04'W	240
81005		LETHEM	3°23'N	059°48'W	770
81100		MARABANBA	2°51'N	060°43'W	183
0		MACAPARI	0°02'N	051°03'W	43
		PARAGUAY			
86217		ASUNCION	25°16'S	057°38'W	318
86233		PUNTA PORA	25°16'S	056°28'W	318
0		CAMPO GRANDE	25°16'S	054°-37'	330
86194		CONCEPCION	23°23'S	057°26'W	270
0		HORQUETA	23°24'S	056°50'W	469
0		MARISCAL	22°01'S	056°43'W	390
86218A		PILAR	26°51'S	058°19'W	190
86218		PRESIDENTE STROE	25°16'S	057°30'W	328
86086		PUERTO CASADO	22°27'S	057°52'W	281
86088		PUERTE PINASCO	22°44'S	057°49'W	262
86268		SAN JOAN BAUTISTA	26°40'S	057°09'W	492
86193		VILLARRICA	25°45'S	056°26'W	508
		PERU			
84792		ABANCAY	13°37'S	072°53'W	8233
84472		CAJAMARCA	07°09'S	078°29'W	8418
0		CAPITAN MONTES	04°34'S	068°19'W	203
84993		CERRO DE PASCO	10°41'S	076°15'W	14234
84444		CHACHAPOYAS	06°13'S	077°52'W	7188
84482		CHICLAYO	06°47'S	079°51'W	82
84991		CHIMBOTE	09°10'S	078°31'W	33
0		CHULUCANAS	05°11'S	079°09'W	468
84686		CUSCO	13°33'S	071°57'W	10669
84633		HUANCAYO	12°03'S	075°20'W	10971
		ILO	17°41'S	071°21'W	240
84377		IQUITOS	03°46'S	073°15'W	340
84482		JAUJA	11°47'S	075°29'W	11118
84414		JULIACA	15°31'S	070°10'W	12507
84781		MOLLENDO	17°01'S	072°01'W	12558
84832		LAS PALMAS	11°59'S	077°06'W	259
84691	21701	LIMA/CALLAO	12°02'S	077°07'W	505
84731		LIMA	11°55'S	077°04'W	33
84872		MOYOBAMBA	06°02'S	076°58'W	2749
84481		PISCO	13°46'S	076°14'W	23
84481		PIURA	05°11'S	080°37'W	174
84719		PUCALLPA	08°23'S	074°34'W	482
84490		PUERTO MALDONADO	12°36'S	069°10'W	660
84477		ANTOFAGASTA	23°26'S	070°26'W	2034
84721		SAN JUAN	31°23'S	068°25'W	1741
84489		SAN RAMON	11°08'S	075°21'W	4035
84783		TACNA	18°03'S	070°16'W	1364
84390	24662	VALDIVIA	39°39'S	073°05'W	26
84489		VARAPOYA	26°13'S	057°19'W	1344
84484		VICOS MAYO	09°01'S	078°03'W	2104
84981		TRUJILLO	08°05'S	079°06'W	177
0		TUMBES NAV	03°31'S	080°26'W	16
84429		YURIMAGUAS	05°54'S	076°06'W	505
84371		ARGENTINA	30°46'S	060°29'W	22
		SURINAM			
81204		NICKERIE	05°57'N	056°59'W	13
81225	10604	PARAMARIBO/PARAMARIBO	05°51'N	055°12'W	59
		URUGUAY			
0		ANGEL S SOARI	34°43'S	056°16'W	173
86396		ARTIGAS	30°24'S	056°29'W	344
0		CAPITAN BRITO LA	29°44'S	057°04'W	134
0		CAPITAN CARDILL	33°15'S	055°09'W	49
86360		COLON,D/LAGUNA DE LOS PATOS	34°28'S	057°51'W	66
86396		PUNTAS	30°23'S	056°30'W	118
0		PUNTAS DEL	34°44'S	054°05'W	82
86466		MELO	32°22'S	054°01'W	344
86490		MERCEDES	33°15'S	058°01'W	72
0		PIRAY	34°47'S	055°-- W	496
86360		PUNTEY/DOG/CARRASCO	34°50'S	056°02'W	93
0		PUNTA NEGRA/PIRAY	34°-5'S	055°38'W	184
86466		PUNTA DE LOS TORRES	33°34'S	054°31'W	226
86455		PAYSANDU/CARCA	32°21'S	058°05'W	174
86353		PUNTA DEL ESTE	34°58'S	054°57'W	39
86390		SIPOLA	34°54'S	056°55'W	69
86963		POCHA	34°34'S	054°20'W	72
86366		SALTA/SALTO	32°22'S	057°23'W	131
86990		SAN JOSE	34°21'S	056°43'W	139
0		TENIENTE PAMALLA	33°33'S	053°29'W	259
86500		TREINTA Y TRES	33°13'S	054°-1'W	187

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GPM)
		VENEZUELA			
80410		MARACAIBO/CAMPO MARIN	N10°35'	W071°44'	68
80420		BARQUISIMETO	N10°04'	W069°20'	1633
80424		PUERTO CABELLO	N10°27'	W068°01'	131
80403		CORO	N11°25'	W069°41'	85
80406		EL LIBERTADOR	N10°11'	W069°19'	1430
80423		MAIQUETIA	N10°35'	W066°56'	10
80416		LA CARLOTA	N10°16'	W066°55'	2735
80405		LA ORCHILA	N11°54'	W066°11'	15
80415		MATURIN	N09°45'	W063°00'	140
80407		MARACAIBO	N10°33'	W071°44'	25
80413		MARACAY	N10°15'	W067°37'	1440
80419		MATURIN	N09°45'	W063°11'	263
80414		PUERTO AYACUCHO	N05°33'	W067°36'	93
80418		CARUPANO	N10°39'	W063°15'	1276
80422		CUMANA	N10°31'	W064°11'	14
80417		PUERTO AYACUCHO	N05°34'	W067°36'	128
80427		SAN ANTONIO	N07°51'	W067°27'	1525
80408		SAN FERNANDO	N07°54'	W066°28'	144
80412		PUNTA PIEDRA	N10°41'	W061°07'	2976
80411		TUMEREMO	N07°18'	W061°27'	610
		SOUTH AMERICAN COASTAL AREAS			
		AREA 1 GEORGETOWN	N06°48'	W058°10'	14
		AREA 2 CAYENNE	N04°55'	W052°18'	26
		AREA 3 AMAZON DELTA	N01°28'	W049°40'	29
		AREA 4 FORTALEZA NW	S03°51'	W038°31'	26
		AREA 5 NATAL	S05°55'	W035°15'	28
		AREA 6 RECIFE	S08°04'	W034°55'	30
		AREA 7 SALVADOR	S12°54'	W038°19'	30
		AREA 8 VITORIA NE	S20°19'	W040°19'	32
		AREA 9 RIO DE JANEIRO	S22°55'	W043°09'	35
		AREA 10 FLORIANOPOLIS	S27°36'	W048°40'	36
		AREA 11 PORTO ALEGRE	S30°01'	W051°13'	38
		AREA 12 BUENOS AIRES	S34°35'	W058°29'	34
		AREA 13 BAHIA BLANCA	S38°44'	W062°13'	30
		AREA 14 RAWSON	S43°15'	W065°06'	32
		AREA 15 PUERTO DESEADO	S47°44'	W065°54'	32
		AREA 16 MAGELLAN STRAIT EAST	S53°38'	W070°56'	39
		AREA 17 TIERRA DEL FUEGO	S53°47'	W067°42'	30
		AREA 18 FALKLAND ISLANDS	S51°49'	W059°09'	28
		AREA 19 SOUTH GEORGIA	S54°17'	W036°42'	28
		AREA 20 TRISTAN DA CUNHA GROUP	S37°04'	W012°19'	28
		AREA 21 TRINIDAD	S20°31'	W029°20'	34
		AREA 22 ST. HELENA	S15°58'	W005°43'	24
		AREA 23 ASCENSION	S07°55'	W014°23'	24
		AREA 24 ST. PETER AND PAUL ROCKS	00°56'	W029°22'	22

FOR EXPLANATION AND ILLUSTRATION OF SUMMARIES SEE PAGE 1

WBAN NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET	3	6	9	12	17	18	22	42	46	50	60	61	80	01	01	03	01	01	06	16	17	08	00
		PACIFIC																										
		AUSTRALIA																										
94672		ADELAIDE	34°43'	138°38'	134					C					7						8				10			
94899		ALBANY	35°02'	117°53'	61					C					6						2							
0		ALBURY	36°04'	146°57'	361					C																		
94326	02301	ALICE SPRINGS	23°48'	133°53'	1789					C					11						8				12			
0		ARDMORE FIELD	37°34'	145°01'	44					C																		
0		AVALON	38°02'	144°29'	33					C																		
0		BAMBERTOWN	33°33'	115°07'	21					C																		
94790		BATHURST	33°24'	149°39'	2430					C																		
94855		BENDIGO	36°46'	144°17'	738					C																		
94333		BOURKE	30°03'	145°57'	478					C																		
94723		BOWRAL	34°29'	150°29'	331					C																		
94578	02506	BRISBANE	27°23'	153°05'	13					C					10						8				4			
94689		BROKEN HILL	31°29'	141°28'	948					C					10						8							
94233		BROOME	17°57'	122°13'	63					C																		
94296		BUNBARATHA	24°54'	152°21'	109					C					10						8							
94287	01461	BURNIE	41°03'	145°44'	8					C																		
94255		CAMOOWEAL	19°55'	138°08'	702					C																		
94926		CAMPBELL	35°16'	149°12'	1837					C					10						11							
94691		CAPE LEEUWIN	34°22'	115°09'	148					C																		
94280		CARNARVON	24°53'	113°40'	18					C					11						7							
94274		CASINO	28°51'	153°04'	62					C																		
94693		CESSNA	37°00'	139°39'	63					C					10						6							
94510	02402	CHARLEVILLE	26°23'	146°16'	982					C					10						10				13			
0		CHARLOTTE WATERS	29°04'	136°55'	49					C																		
94256	02401	CHARTERS TOWERS	20°02'	146°16'	982					C		2																
94335	02420	CLONCURRY	20°41'	140°30'	618					C		3			10						9				14			
94791	03304	COFFS HARBOUR	30°19'	153°07'	65					C					7						8							
0		COOMA	36°16'	149°05'	2135					C																		
94649		COOK	30°37'	131°05'	476					C																		
94203	01402	COOKTOWN	15°27'	144°51'	19					C		2																
94301		COOLANGATTA	28°10'	153°30'	21					C																		
94923		CORRA	34°59'	146°03'	2169					C																		
0		COWRA	33°50'	148°41'	466					C																		
94728		CROWL	37°51'	144°45'	564					C																		
94216		DALY WATERS	16°16'	133°22'	410					C					10						7							
94203		DARU	09°04'	143°11'	20					C																		
94120	01303	DARWIN	12°25'	130°52'	98					C					13						8				14			
94659		DENILIQUIN	35°33'	144°57'	315					C																		
94265		DERBY AT	17°22'	123°39'	24					C																		
94948		DERRIMUT	37°48'	144°46'	22					C																		
94719		DUNDO	37°33'	144°26'	96					C																		
94997		EAST SALE	38°06'	147°08'	30					C					10						8							
0		EDINBURGH	34°42'	138°37'	72					C																		
94644		ESPERANCE	33°51'	121°53'	2560					C																		
94643		ESPERANCE	33°50'	121°53'	14					C																		
94268		EUCUMBENE	37°04'	144°54'	287					C																		
0		EYRE	33°14'	136°22'	15					C																		
94673	01501	FALL RIVER/NEW ZEALAND	34°19'	135°08'	8					C		2													1			
0		FARINA	30°03'	138°00'	365					C																		
94268		FINSCHHAFEN	06°36'	147°51'	3					C																		
94998		FLINDERS ISLAND	40°05'	144°00'	33					C																		
94866		FORREST	30°50'	128°00'	337					C					10						8				7			
94933		FORT ISLAND	19°38'	146°45'	32					C																		
94693		FRANKLETON	34°48'	151°42'	98					C					10						8				2			
94461		FILES	32°59'	132°10'	1665					C																		
94218		GERONA	39°45'	144°29'	3167					C																		
94726		GRIFFITH	34°15'	146°04'	467					C																		
94212		HALLS CREEK	18°18'	127°39'	1418					C					10						8							
94963		HOBART	37°51'	147°29'	19					C					6				8						6			
94970		HOBART ISLAND	36°27'	144°28'	90					C					9						9				8			
94170		HORN ISLAND	10°44'	142°18'	68					C		2																
0		INNAMIC	31°08'	136°48'	63					C																		
94941		INVERELL	29°47'	151°06'	2460					C																		
94568	02502	JAMISON AMBERLEY FLD	27°38'	153°02'	80					C					10						4				10			
94106		JOHN ARNOLD	31°29'	134°39'	68					C		3																
0		JACKSONS	34°48'	138°32'	147					C																		
94968		JERVIS BAY	35°09'	150°47'	209					C																		
94637		KALGOORLIE	30°46'	121°27'	1187					C					10						8				9			
94268		KARUMBA	17°27'	134°05'	10					C					3													
94132		KATHERINE	14°27'	132°16'	333					C																		
94076		KAVIENG	02°34'	150°48'	15					C																		
94208		KEMPSEY	31°05'	152°50'	49					C																		
94691		KING ISLAND	39°47'	144°04'	132					C																		
0		KINGSFORD SMITH	33°56'	151°10'	39					C																		
94627	00413	KAVIENG/NEW GUINEA	02°44'	150°48'	12					C					10						9				1			
94960		LAUNCESTON	41°32'	147°13'	570					C															2			
94865		LAMBERTON	33°52'	151°46'	35					C																		
94252		LEARMONTH	22°14'	114°05'	2004					C																		
94665		LEIGH CREEK	30°36'	138°25'	738					C					6													
94368		LONGREACH	23°26'	144°16'	644					C																		
94905		LORD HOWE ISLAND	31°31'	159°04'	15					C																		
94547		MACKAY AT	32°11'	134°11'	10					C					7						7							
94614	00427	MADANG/NEW GUINEA	05°13'	145°47'	20					C					2													
94674		MALLACOOTA	37°34'	149°26'	155					C																		
94874		MANGALORE AT	36°53'	144°11'	463					C																		
0		MARION	31°26'	136°35'	29					C																		
0		MARSELINA	19°16'	133°37'	874					C																		
94205	01400	MARTIN	31°39'	149°26'	1453					C		2																
94367		MELBOURNE/SUM	37°51'	145°03'	21					C																		
94946		MERIDA	38°30'	145°33'	49					C																		
94490		MERIDITHANNA	37°39'	139°33'	1670					C					9						8							

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (METERS)
94804		MELBOURNE	37°46'S	144°45'E	26M
94693		WILSONS	38°14'S	144°26'E	117M
94044	00432	MONTE/MENGROS IS.	38°26'S	144°32'E	17M
0		MORNINGTON	38°39'S	145°02'E	31M
94831		POINT SORRELL	38°44'S	146°09'E	6M
94317		WARRNAMBOOL	38°23'S	142°29'E	106M
94724		WARRNAMBOOL	38°21'S	142°29'E	78M
94772		NEWCASTLE DOWNS	33°30'S	151°26'E	10M
94827		MAILL	33°41'S	151°13'E	44M
94996		NORFOLK ISLAND	29°03'S	167°56'E	31M
94267		NOOMBATON	33°49'S	151°03'E	3M
94321		NORTHWEST CAPE/W E MELT RWY	22°28'S	113°46'E	12M
94798		NOWRA	34°56'S	150°32'E	30M
94316		NULLARBOR	31°15'S	126°06'E	147M
0		PARRY	37°37'S	145°14'E	13M
94303		PERTH	31°56'S	115°58'E	14M
94678		PORT HEDLAND	37°33'S	139°52'E	30M
94729		PROSPECT	34°53'S	138°44'E	211M
0		RAAFFIELD	37°47'S	145°23'E	6M
94717		RENMARK	34°10'S	140°45'E	104M
94912		PERTH	31°56'S	115°58'E	15M
94608	03101	PERTH	31°56'S	115°58'E	15M
0		POINT COOK	37°54'S	144°45'E	8M
94868		PORT AUGUSTA	32°29'S	137°46'E	13M
0		PORT LINCOLN IV	34°43'S	135°52'E	19M
94312		PORT HEDLAND	20°22'S	118°37'E	2M
94855	63409	PORT HEDLAND/WEB SWITCH	20°22'S	118°37'E	10M
94363		PROSERPINE	20°29'S	148°33'E	7M
94269		RABAUL/MAB BRITAIN ISLAND	04°13'S	152°11'E	2M
94653		RAULTANA	31°00'S	132°32'E	64M
94793		RICHMOND	33°36'S	150°46'E	6M
94376	03998	ROCKHAMPTON	23°23'S	150°29'E	9M
94075		TAMWORTH	31°07'S	150°50'E	29M
94996		TENNANT CREEK	19°38'S	134°11'E	376M
94767	03382	TOOWOOMBA/CAMBUSCUT	27°33'S	151°57'E	2M
94763		TAMWORTH	31°05'S	150°50'E	391M
94455		TARCOOLA	30°43'S	134°33'E	39M
94168		TENNANT CREEK	19°38'S	134°11'E	376M
94692		THARGOMINDAH	27°21'S	143°46'E	40M
94373		THURSDAY ISLAND	10°35'S	142°13'E	2M
94391		TOOWOOMBA	27°33'S	151°57'E	693M
94204		TOWNSVILLE/CAMBUSCUT	19°15'S	146°46'E	3M
94910		TREES POINT	33°51'S	150°47'E	21M
94713		VALENTY	33°03'S	144°16'E	43M
94497		WARBURTON RANGES	37°46'S	122°43'E	180M
94698		WATSON	37°13'S	145°13'E	97M
94251		WAVE HILL	17°27'S	131°06'E	76M
94968		WESTERN JUNCTION	34°13'S	140°43'E	59M
94865		WEWAK	03°13'S	143°40'E	1M
94695		WILCANNIA	31°33'S	143°23'E	76M
0		WILLIAM CREEK	32°01'S	137°21'E	74M
95779	03906	WILLIAMTOWN/NEWCASTLE	32°48'S	151°50'E	9M
94299		WILLIS ISLAND	16°18'S	149°59'E	29M
94418		WINDARRA	29°03'S	149°36'E	303M
94499		WYNDHAM	15°30'S	128°06'E	55M
94316		WYNDHAM	15°31'S	128°09'E	14M
94957		YARRAM	38°18'S	146°43'E	6M
94623		YALGOO	28°21'S	116°41'E	184M
		AUSTRALIAN COASTAL MARINE AREAS			
		AREA 1 PRINCESS CHARLOTTE BAY	14°43'S	144°40'E	
		AREA 2 CAIRNS	16°54'S	145°46'E	
		AREA 3 CUMBERLAND ISLANDS	20°08'S	148°49'E	
		AREA 4 ROCKHAMPTON	23°38'S	150°28'E	
		AREA 5 BRISBANE	25°54'S	153°48'E	
		AREA 6 CAPE MORETON	27°09'S	153°29'E	
		AREA 7 SYDNEY	33°52'S	151°12'E	
		AREA 8 CAPE HOWE NW	37°30'S	149°58'E	
		AREA 9 MELBOURNE SE	39°08'S	146°25'E	
		AREA 10 TASMANIA EAST	42°42'S	148°07'E	
		AREA 11 TASMANIA WEST	40°48'S	144°40'E	
		AREA 12 CAPE NELSON	38°24'S	141°06'E	
		AREA 13 SPENCER GULF	33°30'S	137°28'E	
		AREA 14 AUSTRALIAN BIGHT SE	34°59'S	132°20'E	
		AREA 15 AUSTRALIAN BIGHT SW	33°49'S	124°29'E	
		AREA 16 ESPERANCE BAY S	33°58'S	122°52'E	
		AREA 17 CAPE LEEUWIN	35°02'S	115°30'E	
		AREA 18 PERTH BAY	31°48'S	113°20'E	
		AREA 19 SHARK BAY	25°49'S	113°19'E	
		AREA 20 BARROW ISLAND	21°31'S	115°09'E	
		AREA 21 BROOME	17°58'S	122°14'E	
		AREA 22 CAPE TALBOT	15°44'S	124°29'E	
		ISLANDS NORTH OF THE EQUATOR			
91212	61406	KOSRAE EDGAR SAS	05°22'N	163°00'E	2M
91210	61413	CHRISTMAS ATOLL/KOSRAE/BARIMAU ISLAND	01°59'N	157°30'W	3M
0		ANEWETAK ISLAND	11°34'N	162°20'E	2M
91444		KWAJE ISLAND	08°43'N	167°44'E	10M
91119	62401	CENTRAL DIFFICULT/FIND ATOLL	14°44'N	145°15'E	36M
91490	20931	CHRISTMAS ISLAND	02°01'N	157°21'W	3M
91290	61601	PENRHYN ATOLL/KWAJALEIN ISLANDS	08°57'S	158°02'W	2M
91297	*202	PALMERSTON/ATOLL ATOLL	08°16'S	162°48'W	1M
91407	66266	FANNING ISLAND	03°54'N	159°20'W	2M
91275	21640	JOHNSTON ISLAND	16°44'N	169°31'W	1M

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
91408	452307	KOROR ISLAND PALAU ISLANDS MAU	N07320	E134629	98
91346	40696	YUTAJE/CAROLINE ISLANDS	N07320	E134301	12
91366	452004	KWAJALEIN ATOLL M I	N08644	E167446	20
91376	52719	MAJURO ATOLL/MARSHALL ISLANDS	N07046	E171124	10
91334	452901	W/ACTS ISLAND MAS	N12437	E152359	34
91666	452701	WIDNAY ISLAND MS	N13833	W144743	67
91309	452002	PALAUAN IS MAS	N07332	E134203	3
91348	452503	BORNAPE CAROLINE ISLANDS MAS	N06958	E158213	112
91292	41303 452400	PETANGPANG MAS/PALAU/MUNITHI ATN SAIPAN MARIANA IS MAU	N13006 N15197	E145446 E145647	10 105
91394	452502	TRUK CAROLINE ISLANDS MAS	N07228	E151351	3
91260	41806	WAKE ISLAND	N19317	E166429	13
91419	452300	YAP ISLAND CAROLINE ISLANDS MAU	N09491	E138093	30
89009	99001	AMUNDSEN SCOTT -U.S.-	S90000	W000000	9186
89022		MAUD AMI BASE/SOUTH -BELGIUM-	S71934	E002419	164
89129	68701	PRINCESS	S74483	E176402	8235
89125	68701	BIRD STATION -U.S.-	S66905	W112800	1260
		CAPE BRASLEN	S67900	E146700	6
89511		PARIS	S48353	E002359	64
91502		DUMONT D'URVILLE -FRANCE-	S66402	E140401	131
89072		DIGNITY STATION	S73514	W091718	1300
89066	87601	ELLSWORTH IST STN -U.S.-	S77944	W041107	160
89071	87701	WALLET -U.S.-	S72100	E117019	18
89022		WALLOP BAY -U.S.-	S73531	W028304	30
		PORPOISE/SEALS	S76000	E099729	11010
		LITTLE AMERICA	S78011	E161257	1260
	87604	LITTLE AMERICA -U.S.-	S78112	W003319	1260
		WILKINS STATION	S67304	E060239	75
89664	87601	WEDDELL SEAL/MCMURDO -U.S.-	S77720	E166444	87
89502		GLORY -U.S.S.R.-	S66038	E093601	1260
89001		WORKS BASE/SHIRAZ	S70400	W002408	1722
89012		WEDDELL/ARGENTINA	S70944	W051150	260
		MAITRI	S70430	E110949	91
89601		PACIFIC -POLAND-	S66614	E120944	98
		DISCOVERY/ATS	S69953	E090130	6550
		SHOWA	S69152	E039353	66
		SYOWA -JAPAN-	S69000	E039735	66
89532		MIZUHO -U.S.S.R.-	S70732	E044432	11716
89511	86101	VILLAS -U.S.-	S64613	E161234	34
		HANNA ISLANDS			
91351		POINT PATTERSON/HAWAII	S18930	W156938	139
		BRITISH SOLOMON ISLANDS			
		HALE HA	S09518	E159642	33
	86504	RENNELL ISLE	S11614	E159907	1312
		PUKA PASSAGE	S05318	E157444	16
91320	86601	MARSHALL/CANAL	S09024	E138703	24
91317		MAPUTASI	S09038	E138000	24
		KIRITO	S14610	E173434	24
91302		MANDA	S10020	E159715	13
91320		PAGA VOI	S11619	E161644	1260
		TULAGI	S09025	E160810	24
		YANDINA	S09018	E159919	24
		COPA ISLANDS			
91830	61702	HITAKAPI	S11812	W153948	26
91850		PENRYN ATOLL	S11818	W158949	16
91852		NIUE	S19048	W169955	196
91826		PALMERSTON ATOLL	S18248	W163110	6
91800		PENRHYN	S09018	W157954	6
91840		RAROMANGA ATOLL	S21008	W159730	26
91849		RAROTONGA	S21132	W159948	164
		MATAIWA II ANDS			
89936		ESPERANCE BAY	S62028	W058036	26
89952		CORNERTINE	S65518	W064116	36
89908		SANAE	S71500	W002818	131
89930		RECEPTION	S62258	W060034	13
89925		PETREL/NEUMAYER/GEORGIA VE	S64804	W064444	13
88864		POT BAY	S51214	W068503	65
89902		HALLEY/BAY	S75434	W026306	131
89960		COMORE	S66044	W044439	13
91993		EDDY STONE ISLAND	S71135	E134003	26
91998		MACQUARIE ISLAND	S54630	E158857	26
91300	00645	NAURU ISLAND	S00232	E166535	328
91906		PITCAIRN ISLAND	S25044	W130054	328
91907		ADAMSTOWN/PITCAIRN ISLAND	S25019	W127733	164
61901	91604	SAINT HELENA	S15555	W005943	2360
89919		YUZNY	S66653	W064336	23
89090		SYOWA/SY	S69152	E039752	164
89961		ATOMIC/STATION ISLAND	S68132	W065701	33
		PACIFIC ISLANDS			

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV (GP MSL)	NORMALS, MEANS AND EXTREMES	PRECIPITATION	TEMPERATURE	DEGREE DAYS	WIND	SUNSHINE, SOLAR RADIATION	PRESSURE	RELATIVE HUMIDITY	SEVERE STORMS	AMOUNTS AND FREQUENCIES OF OCCURRENCE	HOURLY PRECIPITATION	PRECIPITATION-DAY PROBABILITIES	PRECIPITATION-HOUR PROBABILITIES	CONDITIONAL PROBABILITIES	PERSISTENCE	HOURLY WIND	HOURLY TEMPERATURE	HOURLY DEW POINT
91643	88702	YUMAFUTE	20631	E17912	10										5								
91651	88701	K_NUMEA	20930	E17608	3										4								
91636		WOT	22716	E17710	3										3								
		FIJI ISLANDS																					
91691		LAKEMBA	21616	W17848	10										5								
		LAMBASA	21620	E17929	35				C														
91690		LAUTUKA BAY	21609	E17727	21				C						5								
91645		NATAI	21641	E17932	10										2								
91693		NATUVU	21910	E17648	260										2								
91698	81702	NAMBI	21749	E17729	33	18			C		5				5	10			6			6	
91692		NAUSORI	21601	E17923	110				C														
91699		NAI I LAU	22019	W17947	180										5								
91696	81709	NOTUVA	21738	E17709	55										5								
91691		NAVUVATU	21636	E17923	160				C						5								
		FUTUNA	13548	E17623	24				C														
91692		KING POINT	13548	W17939	260										4								
91688	81703	VAVAU	18612	E17734	164										4								
		FRENCH OCEANIA																					
		ANAA ATOLL	17202	W14903	10				C														
91933		ARUPO/RAIATEA ISLAND	16948	W15242	10				C						4								
91930	81901	PAPEETE/SOCIETY ISLANDS	17637	W14934	10				C						4								
91942		HIKUERU ATOLL/TUAMOTU ISLANDS	17136	W14643	3										3								
91948		MAKATEA/TUAMOTU ISLANDS	15350	W14818	17										4								
		NOTU NUTU	12404	W15104	10				C														
91938		PAPEETE TAHITI/SOCIETY ISLANDS	17732	W14933	2				C						4								
91928		PUKA PUKA/TUAMOTU ISLANDS	14058	W14038	3										3								
91955		RAPA	27736	W14421	30										4								
91968		RIKITEA	23507	W13457	13										4								
91958		RURUTU	22227	W15125	10										4								
91965		TAKAROA ATOLL/TUAMOTU ISLANDS	14430	W14459	3										4								
		BISMARCK ISLANDS																					
91923		KAVIENG	24021	E15238	3										4								
91910	69702	RABAUL	22123	E15911	12						2				4								
		NEW CALEDONIA AND DEPENDENCIES																					
91977	82603	KOUMAC	20234	E16419	30										4								
		NOUMEA	22216	E16426	134				C														
91992	82908	HOUAILOU	20211	E16527	3				C						4								
91985	82606	POINDIMIE	20114	E16439	6						3				4								
91966	82607	TONTOUTA	22201	E16633	6				C						4								
		NEW HEBRIDES																					
91960		ANATTEUM	20213	E16944	23				C						4								
		NAMFIELD	15742	E16818	73				C														
91962		PENAMA/EFATE OR NAT	17643	E16859	888				C						4								
91956		NOUMEA/MAGENTA ST/LA MAISON	21102	E16729	10				C		3				4								
91959		NEW ZEALAND	17744	E16619	6				C						10				6				
93845		KAITAIA	34611	E17727	114				C														
93136		KAITAKE	33702	E17459	112				C														
93766		KAMAHAU	36434	E17647	32				C														
93113		KOKELAU	33511	E17647	10				C						4								
93966		CAMPBELL ISLAND	52338	E16907	45				C						13								
93829		CAPE BRETT	35113	E17428	120				C						4								
93844		CAPE CAMPBELL	41644	E17419	10				C						14								
93963		CAPE REINGA	34428	E17241	60				C						4								
93966		CHATHAM ISLAND	44318	W17631	134				C						13								
93782		CHRISTCHURCH	43529	E17232	1308	17			C						5	10			9				
93990		GISBORNE	38402	E17837	84				C														
93198		GREY CAPE	37241	E17835	33				C						4								
93210		KAIKOURA SPIT	42424	E17341	11				C						14								
93231		KERIKERI	35239	E17358	15				C														
93687		KREPOHTU	34223	E 1715	118				C														
93708		MAHIA	39152	E 1760?	33				C						14								
93159		MANGATAINOKA	39753	E17726	170				C														
		WAITEMATA	35934	E17643	73				C														
93819		MOTUEKA	41429	E17639	93				C														
93856		NAPIER	39292	E17697	68				C						14								
93844		PAPAKOHAKAU AFT	44423	E16920	15				C						15				16			12	
93833		PATEKE	37275	E17349	938				C						14				14				
93811		PAYTOTA	37944	E17717	268				C						14								
93472		PAOTE.TON	38058	E17539	398				C														
93876		RAPIRA	39936	E17651	14				C						14								
93854		RUATAHU	44138	E17713	134				C														
93960		RUM PLYMOUTH	43924	E17611	1				C						14				14				
93968		RUMPOLA ISLAND	52499	E16734	46				C						4				9			10	
93876		TAHAKA	38458	E17703	178				C														
93631		TAIPARA	34611	E17723	3				C						8				14				
93609		TAUMARUNUI NORTH	38819	E17517	348				C														
93615		TAUPOMOANA	38458	E17459	1				C														
93836		WAITOTARA PT.	39614	E17437	13				C						14								
93839		WANGANUI COM	39585	E17644	118				C														
93216		WESTPORT A	41748	E17619	93				C														
93896		WHANGAREI MEAD	35647	E17455	212				C						14								
		YALDEN	36530	E17621	8				C														
93256		ZAPPY	39938	E17600	1428				C														

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
A		TAUPO AERODROME	38°44'S	176°05'E	1335
93163		TAURANGA	37°40'S	176°12'E	10
93723		TIMARU HARBOUR	44°24'S	171°15'E	20
93643		WAIPUKURAU	39°00'S	176°33'E	430
93303		WAITRA	38°00'S	175°72'E	30
93829		WANGANUI	39°55'S	175°02'E	20
93436		WELLINGTON INTL	41°19'S	174°46'E	38
93316		WESTPORT	41°44'S	171°36'E	13
93260		WHAKATANE	37°55'S	177°05'E	20
93090		WHANGAREI	35°46'S	174°21'E	135
93112		WHENUAPAI	36°47'S	174°37'E	90
93783		WIGRAM	43°33'S	172°33'E	74
93977		WOODBOURNE	41°31'S	173°52'E	110
		PHOENIX ISLANDS			
91796	60703	CANTON	02°46'S	171°43'W	11
91783		ENDERBURY	03°08'S	171°05'W	15
91710		HULL	10°49'S	179°21'W	14
		TAPOI			
91762		APIA WFOLU	13°48'S	171°47'W	5
91799		FALEOLO	13°49'S	171°59'W	33
		NIUAFO	15°58'S	173°46'W	335
91765	61709	PAGO PAGO	14°20'S	170°43'W	14
		TOKELAU ISLANDS			
91724		NUKUNONO	09°12'S	171°51'W	10
		TONGA ISLANDS			
		NUKUALOFA	21°12'S	175°12'W	100
91766		HAAPAI	19°49'S	174°21'W	100
91776		OHOPAL	21°19'S	175°09'W	10
91768	62701	VAVUALPPA	18°36'S	173°59'W	10
91768		VAVAU	18°37'S	173°58'W	29
		SOUTH PACIFIC ISLE MARINE AREAS			
		AREA 1 NAURU IS AND OCEAN IS	00°32'S	166°55'E	
		AREA 2 GILBERT ISLANDS	00°00'	172°00'E	
		AREA 3 CANTON IS AND PHOENIX IS	03°00'S	171°00'W	
		AREA 4 CHRISTMAS AND JARVIS IS	00°00'N	157°00'W	
		AREA 5 SOLOMON ISLANDS NW	02°00'S	160°00'E	
		AREA 6 SOLOMON ISLANDS SW	10°00'S	159°00'E	
		AREA 7 FUNAFUTI ATOLL	12°00'S	177°00'E	
		AREA 8 MARSHALL ISLANDS	10°00'N	172°00'E	
		AREA 9 ISLE PALLIS	13°30'S	178°00'W	
		AREA 10 SAMOA ISLANDS	13°00'S	172°00'W	
		AREA 11 NPO CALIFORNIA	32°00'N	119°00'W	
		AREA 12 NPO HAWAIIAN ISLANDS	21°00'N	158°00'W	
		AREA 13 FIJI ISLANDS	17°00'S	177°00'E	
		AREA 14 TONGA ISLANDS	21°00'S	175°00'W	
		AREA 15 NIUE ISLAND	19°00'S	169°00'W	
		AREA 16 RAROTONGA IS COOK ISLN	21°00'S	159°00'W	
		AREA 17 TAHITI IS AND MOOREA IS	17°00'S	151°00'W	
		AREA 18 TUAMOTU ARCHIPELAGO	16°00'S	144°00'W	
		AREA 19 KIRITIMATI ISLAND	01°00'N	157°00'W	
		AREA 20 EASTER ISLAND	27°00'S	109°00'W	
		AREA 21 SAN AMBROSIO AND FELIX I	26°00'S	079°00'W	
		AREA 22 ISLAS JUAN FERNANDEZ	33°00'S	080°00'W	
		AREA 23 GALAPAGOS ISLANDS	00°00'S	090°00'W	
		AREA 24 CHATHAM ISLAND	44°00'S	176°00'W	
		AREA 25 AUCKLAND WEST	33°00'S	170°00'E	
		AREA 26 AUCKLAND EAST	33°00'S	179°00'W	
		AREA 27 CAPE EGMONT NW	34°00'S	177°00'E	
		AREA 28 CAPE EGMONT	36°00'S	177°00'E	
		AREA 29 HAWKE BAY	34°00'S	177°00'E	
		AREA 30 SOUTH ISLAND NW	41°00'S	174°00'E	
		AREA 31 FOVEAUX STRAIT	46°00'S	168°00'E	
		AREA 32 CHRISTCHURCH	44°00'S	173°00'E	

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WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN FEET
		EAST INDIES			
		INDONESIA AND MALAYSIA			
96067		ABMARRAKMAN JAKIM	10733	0112+3	+7+
96613		[illegible]	10439	0111422	
96615		[illegible]	10116	0111634	10
96701		[illegible]	10327	0111643	69
96987		[illegible]	10659	0110737	2+3
			10613	0110427	14
96229		[illegible]	10332	0110220	15
96615		[illegible]	10332	0111702	18
96715		[illegible]	10632	0110649	3+2
96819		[illegible]	10649	0111433	15
96993		CHRISTMAS ISLAND	10623	0105940	59
96996	71901	[illegible]	11311	0096+2	14
96765		[illegible]	10699	0110631	14
96795		[illegible]	10138	0110137	03
96797		[illegible]	10643	0110814	104
96813		[illegible]	10747	0111826	353
96767		[illegible]	10616	0110633	68
96773		[illegible]	10613	0110742	361
96801		[illegible]	10651	0110631	94
96871		[illegible]	10519	0111602	23
96813		[illegible]	10129	0111035	07
96965		[illegible]	10513	0111910	113
96801		[illegible]	10737	0111131	358
96813		[illegible]	10234	0109941	83
96773		[illegible]	10437	0110911	83
96869		[illegible]	10643	0111939	13
96163		[illegible]	10633	0110621	10
96139		[illegible]	10328	0110127	102
96221		[illegible]	10314	0110642	33
96868		[illegible]	10731	0111643	353
96869		[illegible]	10742	0111542	69
96737		[illegible]	10218	0110408	104
96981		[illegible]	10041	0110923	12
		[illegible]	10313	0111446	1063
96171		[illegible]	10432	0110727	138
96935		[illegible]	10117	0099919	41
96401		[illegible]	10113	0111804	44
96925		[illegible]	10131	0111238	104
96939		[illegible]	10619	0111923	137
96973		[illegible]	10113	0109831	137
96421		[illegible]	10122	0111137	32
96233		[illegible]	10118	0110940	229
96179		[illegible]	10625	0110435	164
96933		[illegible]	10731	0111243	113
96269		[illegible]	10245	0110745	144
96799		[illegible]	10613	0110634	130
96929		[illegible]	10237	0111734	37
96931		[illegible]	10732	0110915	1100
		[illegible]	10511	0111733	34
96168		[illegible]	10212	0110419	8
96869		[illegible]	10744	0110901	28
96896		[illegible]	10742	0111034	402
		INDONESIAN COASTAL MARINE AREAS			
		AREA 1 SOUTHEAST SUMATRA	1040A	0110107	
		AREA 2 CHRISTMAS ISLAND	11003	0110405	
		AREA 3 SUNDA STRAIT	10401	0110527	
		AREA 4 NORTHWEST JAVA SEA	10403	0110759	
		AREA 5 BANGKA ISLAND NORTHWEST	10406	0110105	
		AREA 6 NATUNA ISLAND	10303	0110422	
		AREA 7 [illegible]	10316	0111159	
		AREA 8 WEST BORNEO	10409	0110930	
		AREA 9 KARIMATA STRAIT	10241	0110902	
		AREA 10 SOUTHWEST JAVA SEA	10355	0110906	
		AREA 11 SOUTH CENTRAL JAVA	10404	0111004	
		AREA 12 SOUTHWEST JAVA	10937	0111907	
		AREA 13 SOUTHEAST JAVA SEA	10403	0111931	
		AREA 14 NORTHEAST JAVA SEA	10424	0111329	
		AREA 15 BALI SEA	10700	0111045	
		AREA 16 FLORES SEA	10738	0111049	
		AREA 17 NORTHWEST CELEBES SEA	10606	0111705	
		AREA 18 SOUTH MAKASSAR STRAIT	10628	0111558	
		AREA 19 CENTRAL MAKASSAR STRAIT	10338	0111930	
		AREA 20 NORTH MAKASSAR STRAIT	10602	0111837	
		AREA 21 SOUTHWEST CELEBES SEA	10203	0112059	
		AREA 22 NORTHWEST CELEBES SEA	10306	0112907	
		AREA 23 EAST CELEBES SEA	10306	0112309	
		AREA 24 NORTHEAST MOLUCCA SEA	10306	0112708	
		AREA 25 SOUTHEAST MOLUCCA SEA	10152	0112607	
		AREA 26 NORTHEAST BANDA SEA	10506	0113100	
		AREA 27 TIMOR NORTHWEST	10738	0112625	
		AREA 28 NORTH TIMOR SEA	10406	0112903	
		AREA 29 KEYSVILLE ISLAND	11102	0113258	
		AREA 30 WEST ARAFURA SEA	10703	0113028	
		AREA 31 EAST ARAFURA SEA	10906	0112658	
		AREA 32 WEST TORRES STRAIT	10854	0114039	
		AREA 33 EAST TORRES STRAIT	11008	0114308	
		AREA 34 GULF OF PAPUA SOUTHEAST	11042	0114628	
		AREA 35 SOUTHEAST NEW GUINEA	11003	0121105	
		AREA 36 NORTHWEST SOLOMON SEA	10602	0114807	

FOR EXPLANATION AND ILLUSTRATION OF SUBHEADS SEE PAGE 1

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV GR PORT
		AREA 37 ADMIRALTY ISLANDS EAST	02105	0147000	
		AREA 38 NEW IRELAND NORTHWEST	02297	0152200	
		AREA 39 NORTH SOLOMON SEA	03503	0153007	
		AREA 40 SOUTHEAST SOLOMON SEA	04003	0153603	
		WEST NEW GUINEA			
0		ABAWAI	02329	0132033	17
97726		ANGOK KEBAR I/MOLUCCAS	02542	0132005	48
97399		AMBON	03030	0132624	1072
97260		BIAK/WEST IRIAN	01151	0136087	33
97270		BIAK	00620	0135030	6
97642		BOMBIDA	02130	0134004	50
97230		BOMPAKAN/TUBAN/BALI	03604	0115124	3
97343		BILI/PONTIANAK/SE TIMOR	00401	0129031	14
97418		BALIKPAPAN MALANGKA/KUMAI/PASAI	01104	0117319	91
97828		BORO	02230	0132424	19
97348		BOROMTALO	00401	0123304	7
97392		JEFMAN BONGKOGO I/WEST IRIAN	02454	0133107	14
97760		KAIDARA/UTARADA/WEST IRIAN	03404	0133303	19
97790		KENDARI/TIMARA/WEST IRIAN	03403	0133620	19
97272		KUPANG/PENFUI/TIMOR	03010	0123048	333
97210		LANGSUR BAI IS.	05501	0132305	39
97169		MANOKWARI/MOKMERIM	03504	0134033	24
97015		MERAUKE/KAIBARGET	08131	0140355	264
97536		MANOKWARI/OKSIBARI/WEST IRIAN	03403	0133403	15
97630		NAPIA ISLAND/WEST IRIAN	04054	0134310	10
97992		NOEMUIT TIMOR/WEST IRIAN	04035	0123021	32
97694	99031	OELETAR TIMOR/MOLUCCA IS	08203	0123015	55
97972		PAKU CI ,SEE	04041	0115044	29
97996		PENA	00133	0132044	7
97268		PINDIKA	00033	0131009	60
97698		RANAI	02209	0132008	7
97928		SABANGAI JAMBENA ISLAND	03759	0123110	79
97698		SENTANI/WEST IRIAN	02134	0140220	521
97266		SUMBAWA-BESAR	08020	0117429	10
97098		TAMBOR	00333	0123020	10
97878		TANAHMERAH	06429	0140319	99
97364		TIMIKA/PONTIANAK/SE TIMOR	04042	0136332	181
97368		WAINAPU	04040	0123024	91
97660		WAMENA/WEST IRIAN	04004	0138027	5440
97198		WASIAI WONDONGIP/BIAK/AS	01004	0135220	164

FOR EXPLANATION AND ILLUSTRATION OF SUBMARINES SEE PAGE I

WMO NUMBER	WBAN NUMBER	STATION	LOCATION LATITUDE	LOCATION LONGITUDE	ELEV IN MSL
		U. S. NAVY STATIONS			
70494	*219706	ADAK ALASKA NS	N5153 W17640	15	
91212	91640	ADANA TURK NAS	N3722 E3544	268	
74500	23190	ALAMEDA CALIFORNIA NAS	N3746 W12219	3	
	13819	ALBANY GEORGIA NAS	N3135 W8405	224	
74504	11705	ANDREWS MARYLAND AFB	N3848 W7653	279	
72227	13722	ATLANTA GEORGIA/DOBBINS AFB	N3355 W8431	1078	
47679	47918	ATSUGI JAPAN NAS	N3527 E13928	216	
91170	22914	AUGSBURG FRIAT BARRACKS NAS	N2119 W1360	6	
93162	22901	AUGUSTA STATE BARRACKS PAD	N2202 W12047	16	
	93031	BEAUFORT SOUTH CAROLINA MCAS	N3229 W8004	33	
	12923	BEEVILLE TEXAS NAAS	N2823 W9714	47	
72018	13068	BENNING GA NS	N3216 W8441	64	
	93696	BRUNSWICK GEORGIA GLYNCO NAS	N3115 W8112	52	
74962	14611	BRUNSWICK MAINE NAS	N4352 W6954	76	
	03154	CAMP PENDLETON CALIFORNIA MCALF	N3318 W11722	65	
	13739	CHARLESTON SC NS	N3258 W7904	12	
72305	13734	CHERRY POINT N CAROLINA MCAS	N3454 W7657	32	
74612	*93104	CHINA LAKE CALIF INYOKERN NAF	N3541 W11741	2231	
72251	12924	CORPUS CHRISTI TEXAS NAS	N2742 W9729	14	
99426	41231	CAPE POINT P I NAS	N1440 E12017	33	
	*93901	DALLAS TEXAS NAS	N3251 W9650	463	
0	14899	DETROIT/MOUNT CLEMENS/SELFRIDGE AF	N4237 W8259	581	
81067	78791	DIEGO GARCIA	S0714 E07225		
72201	*23195	EL CENTRO CALIFORNIA NAAS	N3247 W11548	43	
	03181	EL TORO CALIFORNIA MCAS	N3340 W11741	380	
	*93192	FALLON NEVADA NAAS	N3927 W11843	3946	
47933	*92315	FUTENMA OKINAWA NAAS	N2601 E12741	165	
	14819	GLENVIEW ILLINOIS NAS	N4205 W8748	668	
78967	11756	GUANTANAMO BAY CUBA NAS	N1954 W7453	14	
	93116	IMPERIAL BEACH CAL NAAS MCAS	N3234 W11707	19	
47744	*93192	IWAKUNI HONSHU JAPAN MCAS	N3409 E13210	4	
	93632	JACKSONVILLE CECIL FLD NAS	N3013 W8197	32	
	93837	JACKSONVILLE FLORIDA NAS	N3014 W8141	30	
	93727	JACKSONVILLE N C NAS OLNEY MCAF	N3440 W7726	7	
91176	22516	KANEOHE BAY HAWAII MCAS	N2129 W15749	14	
04018	*16292	KEFLAVIK ICELAND	N6357 W0227	166	
72201	12854	KEY WEST FLORIDA NAS	N2434 W8141	2	
	12926	KINGSVILLE TEXAS NAAS	N2727 W9749	59	
72409	14794	LAKEHURST NAS JERSEY NAS	N4002 W7420	123	
74702	23114	LEMOORE CALIFORNIA NAS	N3608 W11957	238	
	03186	LOS ALAMITOS CALIFORNIA NAS	N3346 W11803	36	
	03051	MAYPORT FLORIDA NS	N3623 W8125	24	
09644	87652	MCMURDO STA ANTARCTICA NAF-W.I.-	S7751 E16640	93	
72206	03696	MEMPHIS TENNESSEE NAS	N3521 W9002	259	
	03046	MERIDIAN MISSISSIPPI NAAS	N3523 W8846	294	
91066	*22792	MIDWAY ISLAND NS	N2811 W17720	29	
	93641	MILTON FLORIDA WHITING FLD NAAS	N3641 W8701	179	
	93107	MIRAMAR CALIFORNIA NAS	N3252 W11709	44	
47946	44692	MISAWA JAPAN AB	N4051 E14122	128	
74539	*23254	MOFFETT FLD CALIF NAS	N3725 W12204	34	
72491	*23243	MONTEREY CALIFORNIA NAP	N3635 W12152	144	
	*13956	NEW ORLEANS LA NAS CALLENDER NAS	N2955 W9002	4	
	*13736	NORFOLK VIRGINIA NAS	N3656 W7618	2	
	13706	NORMA VIRGINIA NAS	N3633 W7641	4	
72404	13721	PATUXENT RIVER MARYLAND NAS	N3817 W7626	45	
	03045	PENSACOLA FLA BILTMORE FLD NAS	N3632 W8712	23	
	03015	PENSACOLA FLA SAUFLEY FIELD NAAS	N3532 W8711	95	
72211	03075	PENSACOLA FLA/FORREST SHERMAN NAS	N3527 W8719	9	
72392	03111	POINT MUGU CALIFORNIA NAS	N3406 W11907	14	
0	13776	QUANTICO VIRGINIA MCAS	N3638 W7719	14	
72033	13194	RANDOLPH/KELLY RAMONA PUERTO RICO NAS	N1828 W6658	9	
08449	13823	ROTA SPAIN NAS	N3639 W0621	66	
0	03117	SAN CLEMENTE I CALIFORNIA NAS	N3300 W11835	594	
72296	03116	SAN DIEGO CALIFORNIA NAP	N3245 W11712	46	
72201	03118	SAN NICOLAS ISLAND CALIFORNIA NF	N3315 W11628	351	
99478	41229	SANGLEY POINT LUZON P I	N1434 E12059	15	
	03114	SANTA ANA CALIFORNIA MCAP	N3336 W11736	96	
0	24244	SEATTLE WASHINGTON NAS	N4754 W12215	22	
16499	03126	SIGONELLA SICILY NAF	N3709 E01455	18	
16744	03209	SONDA BAY COSTA	N3531 E01629	466	
	14798	SOUTH WEYMOUTH MASS NAS	N4209 W7059	134	
	24231	WHIDBEY ISLAND WASHINGTON NAS	N4815 W12240	49	
	16791	WILLOW GROVE PENNSYLVANIA NAS	N4101 W7507	98	
47806	48921	YOKOSUKA HONSHU JAPAN CAP	N3517 E13928	17	
72280	03164	YUMA ARIZONA	N3251 W11420	214	

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