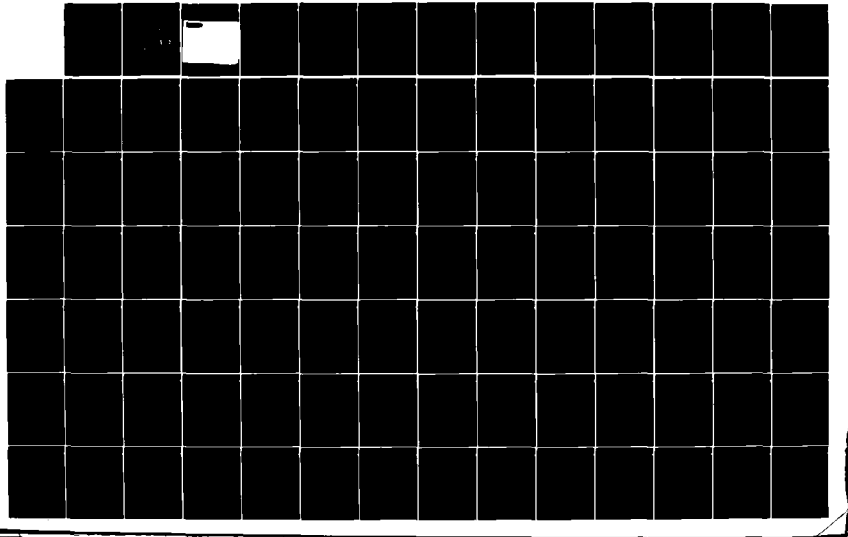
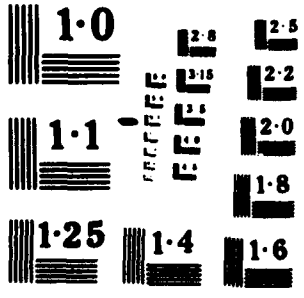
AD A151 678 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 1/4
FOR MISAWA JAPAN(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC MAR 85

UNCLASSIFIED F/G 4/2 NL




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

Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover.

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

This data report consists of a six part statistical summary of surface weather observations. The six parts are: 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

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SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This summary is based primarily on data derived from telecommunications sources. Most tables in this update are based on the period of record (POR) 1973 through 1982. However, a few tables are based on earlier POR's, because Summary of the Day data is not available from telecommunications sources. All available data through 1982 was used for extreme values. In producing these tables, it was assumed that all cloud cover was opaque.

This summary should be retained by individual stations along with previous SMOS. The retention of these summaries will provide the most comprehensive climatological file for your station.

Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals.

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCD), Asheville, N.C. welcomes your comment and criticisms.

STATION NO OR SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
44402	Misawa AB, Japan	40°41'N	141°23'E	119	RJSM	47580

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION FROM	AT THIS LOCATION TO	LATITUDE	LONGITUDE	ELEVATION ABOVE MSL FEET	ELEVATION ABOVE MSL TYPE BAROMETER	OBS PER DAY
1.	Furumaki, Honshu	AF	1948	1971	40°42'N	141°22'E	UNK		24
2.	" "	JASDF	1971	1977	40°41'N	141°23'E			
3a.	" "	"	1978	1980	"	"	16	Aneroid	
4a.	" "	"	1978	1980	"	"	16	Marine	
3b.	" "	"	1981	1981	"	"	15	AN	
4b.	" "	"	1981	1981	"	"	15	Marine	
3c.	" "	"	1982	1984	"	"	5	AN	
4c.	" "	"	1982	1984	"	"	3	Marine	
3d.	" "	"	1984		"	"	9	AN	
4d.	" "	"	1984		"	"	7	Marine	

Note: Hourly data for the period 1968 through 1971 was taken from telecommunication sources. Maximum visibility reported via this source was 7 miles.

Weather instrumentation belongs to the Japanese Air Self Defense Force (JASDF)

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION: LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
1.	April 53	200 yards N of station	AN/GMQ-1	None	14'	
2.	May 55	570' NNE of ob tower	"	"	10'	
3.	Jan 61	200' N of runway center 5/8 mile NE of station	AN/GMQ-11	RO-2	12'	

NOCD, Federal Building
Asheville, NC

PART A WEATHER CONDITIONS

[illegible] presents the frequency of occurrence of various atmospheric phenomena and obstructions to vision, [illegible] from hourly observations, and is presented in three tables as follows:

[illegible]

[illegible]

[illegible]

[illegible] The various categories are defined as follows:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an exposed surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Blowing dust and/or sand - Included are blowing dust, blowing sand, and dust.

[illegible] - [illegible] of reported, [illegible] not shown [illegible] separate categor[illegible] [illegible] [illegible] percentage of observations with obstructions to vision.

[illegible] with obstructions to vision - Included in this categor[illegible] are the observations [illegible] obstructions to vision occurred. [illegible] more than [illegible] type of obstruction [illegible] the same observation, the sum of the individual categories may exceed the percentage [illegible] precipitation may reduce visibility, it is not considered an obstruction [illegible] summary; therefore, the percentage total of obstructions to vision [illegible] [illegible] with reduced visibility.

[illegible] total [illegible] observations may vary among tables within the same month and period. Percentages [illegible] always [illegible] rounding practices.

PART A ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE. A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

WEATHER CONDITIONS

STATION | STATION NAME | YEARS | MONTH

MONTH	HOURS LST	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
		.5	21.4	.1	6.9	.4	32.7	12.9	7.2	22.3		27.2	277
			21.4	.4	5.7	.3	28.1	14.3	4.3	18.4		35.9	279
		.1	21.1	.2	13.1	.5	34.6	21.9	14.2	7.5	.1	34.3	274
		.2	21.2	.1	13.1	.3	33.4	24.7	21.8	.5	1.4	44.4	272
		.3	40.3	.2	.4	.4	43.4	49.1	19.1		.1	56.6	266
		.1	24.4			.1	29.1	33.3	12.9			39.4	274
		.1	21.2			.1	30.7	29.1	33.6			34.2	277
		.7	28.2				37.2	44.1	28.4		.2	43.3	276
		.1	.7				24.2	47.1	15.2		.1	30.5	279
		1.7	35.7		1.7	.1	43.7	34.9	11.4			42.5	6
		.3	29.2		26.2	.1	49.1	15.9	15.4	2.3		39.1	278
		.1	27.3	.4	14.2	.5	41.9	13.2	8.6	3.3	.1	25.3	6
TOTALS		.1	44.2	.1	27.7	.2	76.4	37.8	17.4	4.6	.3	47.8	2775

WEATHER CONDITIONS

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	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
TOTALS													

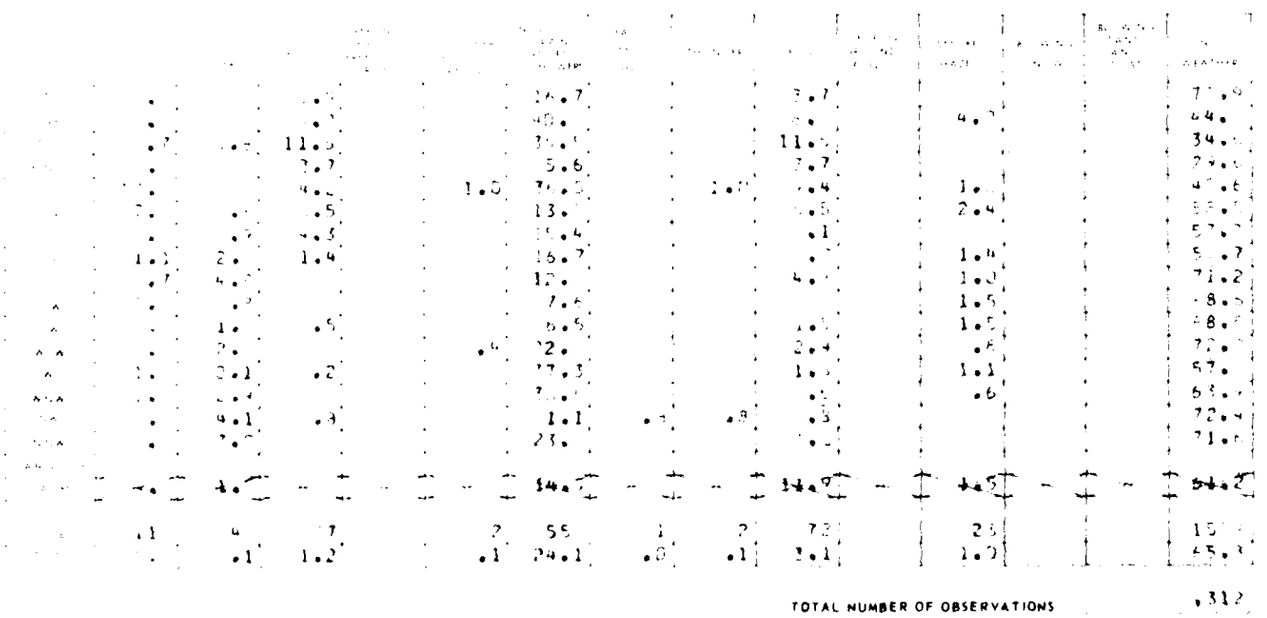
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WEATHER CONDITIONS

MONTH	HOURS LST	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
TOTALS								1.2				1.6	217

2

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

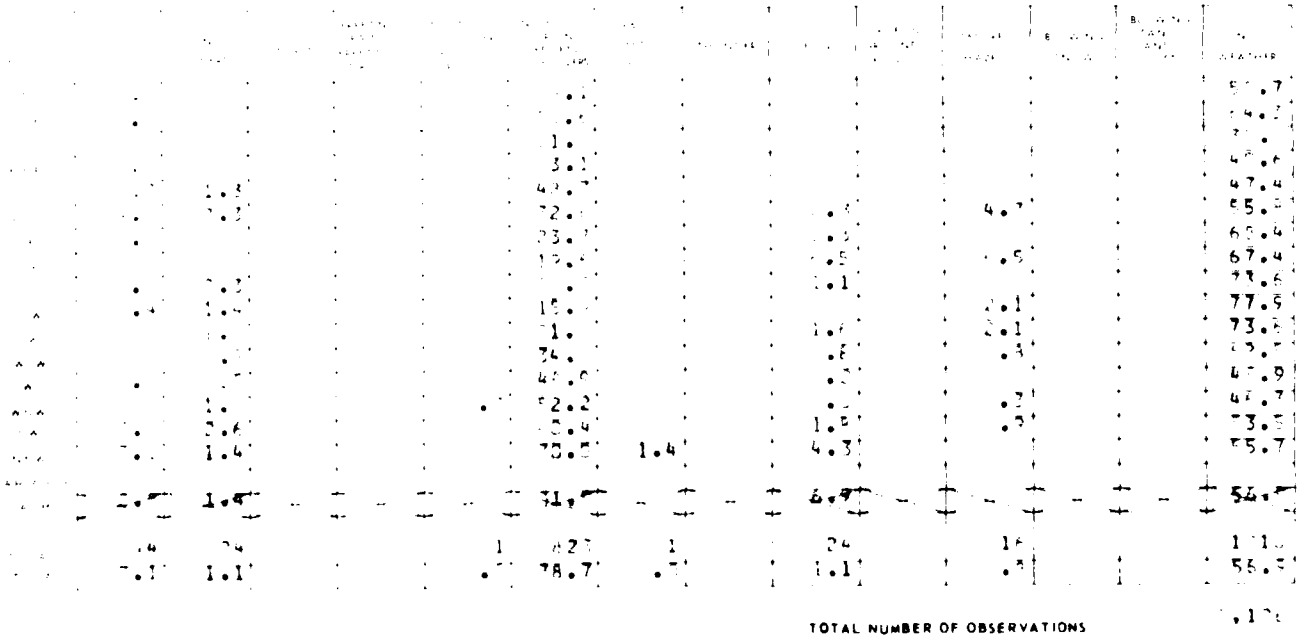


TOTAL NUMBER OF OBSERVATIONS 312

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2

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

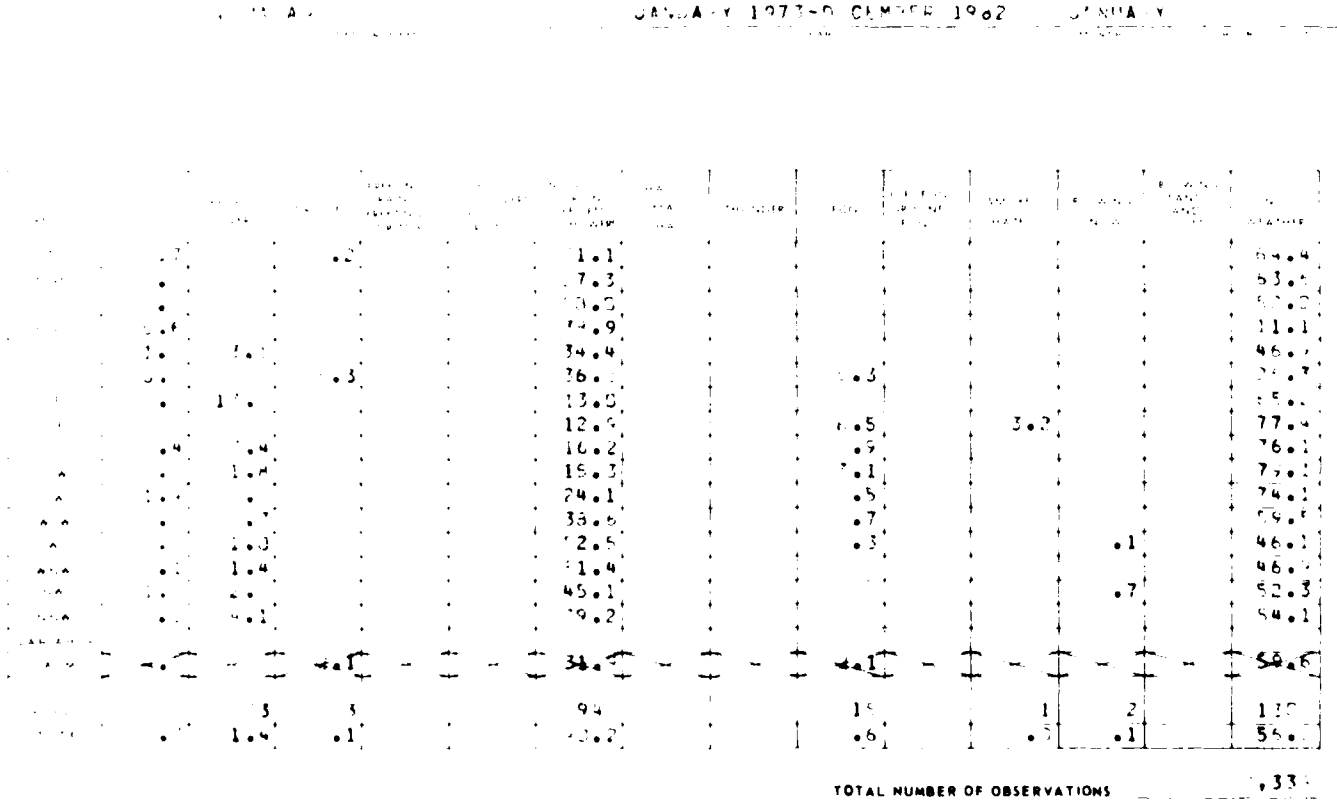


TOTAL NUMBER OF OBSERVATIONS

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2

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

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WEATHER CONDITIONS

STATION | STATION NAME | YEARS | MONTH

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
	ALL		6.		29.5		42.6	.7	.1	.1		.8	2407
			2.1		28.5		41.9	1.2	.7			1.4	217
		.1	7.3		24.4	.2	29.8	2.3	1.			4.3	2731
			13.		2.7		15.4	9.3	1.8		.4	12.7	2[illegible]
		.1	17.4				19.4	11.2	1.3		.2	12.7	241
		.4	21.7				21.7	27.8	1.1			28.9	2279
		.4	17.6				17.6	29.8	3.4		.[illegible]	33.2	24[illegible]
		.[illegible]	16.7				16.[illegible]	27.6	1.7			32.2	2401
		.3	1[illegible].6				1[illegible].6	9.[illegible]	1.2			9.7	2351
		.1	13.[illegible]				13.[illegible]	5.9	1.3			7.[illegible]	2425
		.1	14.[illegible]		10.[illegible]		24.4	1.1	2.[illegible]			3.2	23[illegible]
		.[illegible]	9.9	.[illegible]	28.9		3[illegible].[illegible]	.7	.3	.[illegible]		1.[illegible]	2421
TOTALS		.2	12.3	.[illegible]	11.[illegible]	.0	24.3	4.9	1.3	.0	.6	11.3	2[illegible]355

WEATHER CONDITIONS

STATION STATION NAME YEAR

MONTH	HOURS LST	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HA	PRE		SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	WITH	
TOTALS													

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WEATHER CONDITIONS

[illegible] NOV

STATION | STATION NAME | YEARS | MONTH

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
[illegible]	[illegible]		12.		9.1		[illegible]	1.3	1.3			2.7	297
[illegible]	[illegible]	.3	16.1		12.7		[illegible]	1.3	1.3			2.7	299
[illegible]	[illegible]		14.6		10.3		24.4	1.[illegible]	1.[illegible]			2.[illegible]	[illegible]
[illegible]	[illegible]	.3	1[illegible].1		11.3		[illegible].[illegible]	1.[illegible]	1.[illegible]			2.4	[illegible]
[illegible]	1[illegible]		1[illegible].[illegible]		9.[illegible]		[illegible].[illegible]	.3				.3	[illegible]
[illegible]	1		12.[illegible]		[illegible].1		23.6		.[illegible]			.7	[illegible]
[illegible]	1	.3	18.[illegible]		9.[illegible]		23.4	.3	[illegible].4			6.8	[illegible]
[illegible]	[illegible]1		15.1		[illegible].6		[illegible].[illegible]	[illegible].1	4.5			7.6	291
TOTALS		.1	14.		10.3		24.4	1.1	2.[illegible]			3.2	236[illegible]

WEATHER CONDITIONS

STATION | STATION NAME | YEARS | MONTH

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
		.3	14.5				14.5	1.3	1.3			11.9	303
	3	.3	16.2				16.2	6.3	.3			8.6	318
			14.1				14.1	.9	1.3			9.9	314
			11.1				11.1	4.4	1.3			6.4	297
	1	.3	13.7				13.7	.7				.7	303
	1		12.6				12.6	.7	1.3			1.7	302
	1		14.1				14.1	4.9	2.9			7.8	306
	1		13.2				13.2	.6	3.3			11.9	303
TOTALS		.1	13.-				13.9	5.9	1.3			7.2	2425

WEATHER CONDITIONS

STATION | T[illegible]A, JAPAN (STATION NAME) | 73-82 (YEARS) | SEP (MONTH)

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
[illegible]	[illegible]		17.6				17.6	13.9	.7			14.6	29[illegible]
[illegible]	[illegible]	.7	20.3				20.3	14.[illegible]	.3			15.1	291
[illegible]	[illegible]		14.1				14.1	9.7	.7			10.4	298
[illegible]	[illegible]		16.3				16.3	9.5	1.7			7.3	28[illegible]
[illegible]	1		15.[illegible]				15.[illegible]	2.0	1.7			3.7	297
[illegible]	1[illegible]	.7	15.5				15.5	2.1	2.1			4.1	291
[illegible]	[illegible]	.3	18.6				18.6	5.8	2.6			7.8	29[illegible]
[illegible]	[illegible]1	.3	16.[illegible]				16.[illegible]	1 .5	.7			11.2	29[illegible]
TOTALS		.3	16.6				16.6	8.0	1.2			9.[illegible]	2351

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WEATHER CONDITIONS

[illegible] [illegible]A, JAPAN [illegible]-82 [illegible]

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	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
[illegible]	[illegible]	.3	15.				15.[illegible]	26.4	1.			29.4	[illegible]
[illegible]	0	.7	19.7				19.7	28.3	.5			28.6	[illegible]
[illegible]	[illegible]	1.0	18.3				18.3	27.5	.7			26.1	[illegible]
[illegible]	[illegible]	.7	17.9				17.9	17.6	1.7			19.3	296
[illegible]	1[illegible]	1.0	14.2				14.2	12.3	2.0			14.2	[illegible]
[illegible]	1[illegible]	.7	14.6				14.[illegible]	10.3	2.7			17.0	[illegible]
[illegible]	1[illegible]	1.0	17.4				17.4	14.4	3.3			17.7	[illegible]
[illegible]	21	1.0	17.4				17.4	25.7	1.6			27.3	[illegible]
TOTALS		.8	16.9				16.9	20.6	1.7			22.2	2421

WEATHER CONDITIONS

STATION [illegible], JAPAN STATION NAME | [illegible]-82 YEARS | JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	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
[illegible]	[illegible]	.3	17.4				17.4	43.6	.7			44.3	3[illegible]
	[illegible]	.3	19.3				19.3	44.[illegible]	.7			44.7	[illegible]0
	[illegible]		20.1				20.1	4[illegible].1	1.7			41.8	299
	[illegible]		19.1				19.1	23.5	4.8		.3	28.7	293
	1		13.[illegible]				13.[illegible]	12.6	6.0			18.5	[illegible]
	1[illegible]	1.3	16.7				16.7	12.3	5.0			17.3	3[illegible]0
	1[illegible]	1.[illegible]	17.[illegible]				17.2	25.2	4.[illegible]			27.2	30[illegible]
	21	.3	16.[illegible]				16.9	39.2	4.[illegible]			43.2	301
TOTALS		.4	17.6				17.6	29.8	3.4		.0	33.2	2[illegible]2

NAVWEASERVCOM

WEATHER CONDITIONS

STATION | STATION NAME | 73-82 YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	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
		.3	20.3				20.3	39.9	.7			42.6	294
		.4	23.9				23.9	37.5				37.5	285
		.4	22.5				22.5	34.0	.4			34.4	285
			20.4				20.4	24.0	.7			24.7	27[illegible]
	1[illegible]		20.1				20.1	14.8	2.[illegible]			17.3	2[illegible]4
	1[illegible]	1.7	24.[illegible]				24.2	11.8	1.7			13.5	289
	1[illegible]		21.[illegible]				21.[illegible]	22.2	1.7			24.0	288
	[illegible]1		20.3				20.3	17.8	1.[illegible]			18.8	266
TOTALS		.4	21.7				21.7	27.8	1.1			28.9	2279

NAVWEASERVCOM

WEATHER CONDITIONS

STATION | STATION NAME | YEARS | MONTH: MAY

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
			15.[illegible]				15.[illegible]	16.6	.6			17.2	30[illegible]
	[illegible]		19.6				19.6	21.6	.3			21.9	306
	[illegible]		[illegible]				15.5	10.2	.3			13.5	[illegible]
	[illegible]		14.[illegible]				14.[illegible]	[illegible].4	2.[illegible]		.3	1[illegible].7	298
	1[illegible]	1.0	14.1				14.1	3.7	2.0		.3	6.1	297
	1[illegible]		1[illegible].[illegible]				1[illegible].0	5.0	1.7		.7	7.3	3[illegible]0
	1[illegible]		14.[illegible]				14.[illegible]	[illegible].9	1.0			7.9	304
	[illegible]1		17.3				17.3	14.3	2.3			16.6	301
TOTALS		.1	1[illegible].4				15.4	11.2	1.3		.2	12.7	241[illegible]

NAVWEASERVCOM

WEATHER CONDITIONS

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	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
[illegible]	[illegible]		11.[illegible]		2.4		14.2	12.2	1.4			13.[illegible]	288
[illegible]	[illegible]		13.[illegible]		2.[illegible]		14.4	15.1	1.1			16.2	284
			14.7		1.[illegible]		16.1	11.3	1.4		.3	13.[illegible]	292
	[illegible]		15.[illegible]		[illegible]		17.3	[illegible]	4.2		.4	1[illegible].6	2[illegible]4
	1		17.7		2.4		15.1	2.1	2.4		1.7	6.2	292
	1[illegible]		17.2		4.[illegible]		1[illegible].0	[illegible].1	1.4		.7	[illegible].2	2[illegible]8
	1[illegible]		15.1		3.1		17.2	[illegible].2	1.7			[illegible].9	291
	[illegible]1		11.[illegible]		[illegible].1		13.[illegible]	12.3	.7			1[illegible].0	2[illegible]6
TOTALS			13.[illegible]		2.7		15.4	[illegible].5	1.[illegible]		.4	1[illegible].7	2[illegible]3

NAVWEASERVCOM

WEATHER CONDITIONS

[illegible] A, JAPAN | 77-82 | MAR

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST)	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
[illegible]	[illegible]		7.7		.7		34.7	3.7	1.3			[illegible]	[illegible]
	[illegible]		[illegible]		[illegible]		[illegible]	4.4	1.			[illegible]	[illegible]
	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]	1.			4.3	[illegible]
	[illegible]		7.		[illegible]		[illegible]	4.7	1.7			[illegible]	[illegible]
	1		7.		23.		29.5	2.7	1.0			3.7	298
	1[illegible]	.3	[illegible]		27.1	.3	29.6	1.0	1.0			2.0	294
	1[illegible]		7.		[illegible]		25.9	.0	1.0			4.0	301
	[illegible]1	.3	[illegible]		[illegible]		[illegible]	3.3	.3			3.6	702
TOTALS		.1	7.[illegible]		23.4	.0	29.8	3.3	1.0			4.3	2391

NAVWEASERVCOM

2

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

[redacted], JAPAN — JANUARY 1973-DECEMBER 1982 — APRIL

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SNOW SHOWERS SNOW PELLETS	SNOW, SNOW GRAINS ICE PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	17.	7.1	3.6			1.9			12.5		1.8			55.4
NNE	1 .1	12.1				3.0			21.2					54.5
NE	.2	6.1				3.0			27.3					48.5
ENE	1 .3	5.4				19.6			8.9		3.6			55.4
E	14.	.7	4.3			9.3			14.7		4.7			56.5
ESE	1 .2	.8	4.2			2.1			8.1		3.0			56.5
SE	.9		2.5			1.3			13.8		1.3			64.2
SSE	.6	1.9							13.3		7.4			72.2
S	1 .3	3.5							7.9		1.8			74.6
SSW	.9	2.6							6.0		1.7			85.5
SW	1.1	5.1							4.5		2.3		.6	86.4
WSW	1.2	3.5	.8			2.4			4.1		1.2		1.2	80.9
W	1.	5.7				1.5			6.0		.3		1.3	83.6
WNW	1.	8.6				3.8			1.8				.5	83.8
NW	.	5.4	1.8			4.5			3.6		.9			76.8
NNW	1.	1 .3	4.4			2.9			13.2		1.5			58.8
VARIABLE														
CALM	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
TOTA	1	1 4	30			61			161		39		9	1619
PCT A	.4	4.7	1.4			2.8			8.2		1.8		.4	73.7

TOTAL NUMBER OF OBSERVATIONS 2,198

NAVWEASERVCOM

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JANUARY 1973-DECEMBER 1982

			.8	.7					1.1	12.2		1.1			57.2
			2.6	17.9						1 .3					51.3
		1.	.7	.7					1.6	1 .4					50.7
			4.2	.5						12.7		2.6			47.9
		.3	2.1	.						15.3		7.3			53.7
			2.3	.1						14.6		1.5			56.7
		.1	2.7	6.8						.6		.7			66.4
		1.	1.8	1.8						10.7		3.6			69.5
			4.2	2.1						.4					77.1
		.4	4.4	1.5						.7		1.5		.7	80.7
		.4	2.	.6						7.6		1.2			85.9
			1.3							.6		1.7			93.3
			4.2							7.6		.4		.8	82.9
			2.7	.5						3.7		.5		.5	89.9
		.4	4.4	.9					.9	1.8		.9			87.7
		.2	7.6	5.1						13.9					60.8
										26.2		1.7			58.1
	224	5	84						3	247		30		4	1677
		3.7	3.7						.1	10.8		1.3		.2	71.9

TOTAL NUMBER OF OBSERVATIONS 2,273

NAVWEASERVCOM

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JANUARY 1973-DECEMBER 1982 JUNE

	.7	5.6	7.3						22.2		1.4			48.5
	1.2	5.7	19.2						34.0					25.7
		12.5	19.3						27.5					36.4
		3.5	10.4						33.5		1.7			35.7
		3.8	18.5					.7	27.0		1.8			40.3
		3.6	16.3					.9	26.6		.9			42.7
		.1	8.2						35.5		1.2			41.4
			5.7						49.1		1.9			35.8
		.7						1.7	21.7					61.7
		4.8							16.7		2.4			71.4
		3.5	1.2						9.3		1.2			81.4
		3.3	1.0						6.1					86.7
		2.1							21.3		2.1			75.2
		2.4	1.2						7.8					82.9
		1.6							27.0					72.1
	14.1	4.9	4.9						13.2		4.9			58.5
									50.7					
	224	93	220					7	595		25			1049
		8.3	17.2					.3	27.6		1.2			48.6

TOTAL NUMBER OF OBSERVATIONS 2,158

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

[illegible] JAPAN JANUARY 1973-DECEMBER 1982 JULY

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET ICE PELLETS ICE PELLET SHOWERS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	.	5.6	1.9					2.8	22.2		2.8			52.8
NNE	.1	5.5	.1						34.5		3.6			35.2
NE	.	4.1	12.2						31.1		4.1			41.9
ENE	.	1.8	15.8					.9	35.1		5.3			35.1
E	.1	1.2	14.0						28.8		4.5			45.2
ESE	.2	3.2	15.2						21.3		2.0			51.6
SE	.	.5	4.0					1.0	26.0		5.5			54.0
SSE	.	1.1	1.3					2.2	36.7		3.8			43.7
S	.5	2.7	2.3						20.5		4.5			46.6
SSW	.	1.3	1.4						29.6					54.9
SW	.1	.8							19.6		2.0			68.6
WSW		.4							21.3		1.9		.9	73.1
W		.2	1.2						36.5		2.1			56.3
WNW			.1						21.3					66.7
NW		1.2	.0						16.0		4.0			60.0
NNW	.1	1.2	9.1						27.3		3.0			39.4
VARIABLE														
CALM	.0	2.2	3.9						50.0		1.7			30.9
[illegible]	14	114	270					7	657		72		1	1109
[illegible]	.0	5.1	8.9					.3	29.2		3.2		.0	49.2

TOTAL NUMBER OF OBSERVATIONS 2,250

NAVWEASERVCOM

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JANUARY 1973-DECEMBER 1982 AUGUST

WIND DIRECTION	RAIN	RAIN OR DRIZZ	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SNOW SHOWERS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HA	THUNDER	FOG	BLOWING SAND DUST	HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	.1	14.3	2.0						22.4					59.
NNE	.2	12.5	17.5						[illegible]					35.
NE	.2	3.5	.8					1.8	31.6		7.0			43.
ENE	.1	7.5	10.8					1.1	22.6					54.
E	.1	.4	12.0					.3	17.7		3.2			56.5
ESE	.2	4.1	14.8					.7	20.8		1.9			52.5
SE	.1	.4	7.7						36.8		2.7			51.4
SSE	.1	9.8	5.9					3.9	29.4					48.0
S	.2	15.6						1.0	17.7		1.0			61.5
SSW	.4	9.9						.8	16.9		3.2			66.1
SW	.3	4.5						.8	12.0		1.5			79.7
WSW	.2	4.8						.6	10.7		.6			83.3
W	1.	3.2	.6						20.0		.6			74.2
WNW	.1	2.5						1.1	9.9					83.7
NW	.7	13.6						3.0	7.6					75.8
NNW	.3	5.7	7.5						5.7					73.9
VAR AB [illegible]	.1	5.5	3.9						85.7		1.8			85.7
[illegible]	14	145	154					17	466		39			1397
[illegible]	.4	6.3	5.7					.7	20.3		1.7			67.8

TOTAL NUMBER OF OBSERVATIONS 2,297

NAVWEASERVCOM

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

[illegible] JANUARY 1973-DECEMBER 1982 SEPTEMBER

[illegible]	[illegible]	[illegible]	[illegible]	FREEZING RAIN [illegible]	[illegible]	RAIN [illegible]	[illegible]	[illegible]	FOG	[illegible]	SMOKE HAZE	[illegible]	BLOWING SAND AND DUST	NO WEATHER
[illegible]	.	12.7							.5					76.4
[illegible]	4.	14.8	7.4					3.7	7.4					59.3
[illegible]	.2	1 .	1 .8					2.7	5.4					59.5
[illegible]	.	14.5	14.5						3.6					54.5
[illegible]	.	1 .9	.8						3.6		2.6			61.1
[illegible]	1 .	12.6	6.9						6.9		2.6			63.6
[illegible]	1 .	7.	2.0						1 .		1.5			65.5
[illegible]	.	11.0	.5						15.7		1.6			51.4
[illegible]	.	.0	.7					.7	5.7		1.4			78.
[illegible]	.	6.						.6	7.1		2.4			79.3
[illegible]	.	.3							7.6		.5			95.7
[illegible]	.	5.4	.5						9.4		1.5			81.7
[illegible]	.	6.	.9						9.0					91.2
[illegible]	1.4	.2	1.4					.7	4.1		.7			84.2
[illegible]	.	7.1	1.2					1.2	1.2					87.1
[illegible]	.	16.9							2.7		2.7			73.0
[illegible]														
[illegible]	.	3.	3.9						22.4					61.8
[illegible]	1 6	131	4					6	175		28			1642
[illegible]	.5	.1	2.9					.3	7.9		1.3			73.7

TOTAL NUMBER OF OBSERVATIONS [illegible],229

II 2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JANUARY 1973-DECEMBER 1982 OCTOBER

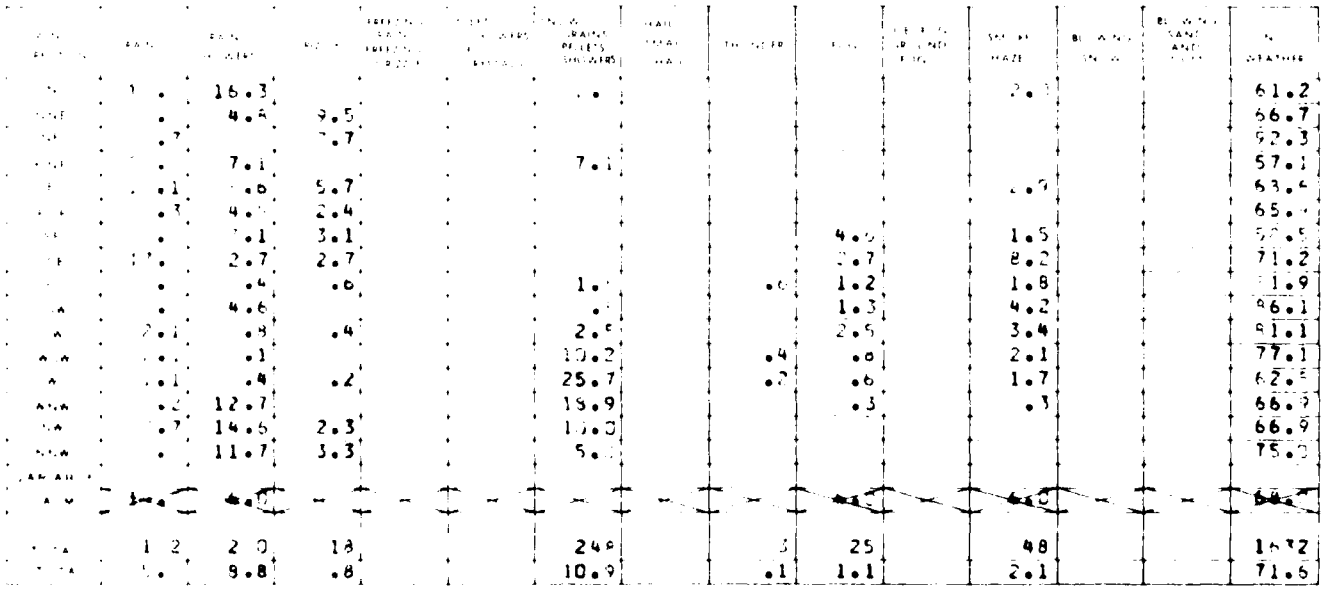
WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	[illegible].	8.2						1.4	1.4		1.4			92.4
NNE	.[illegible]	13.0	4.3						[illegible].7		4.3			65.2
NE	13.	.7	13.0						4.3					73.9
ENE	[illegible].	10.5							.3					68.4
E	7.	6.3							1.6		3.2			91.[illegible]
ESE	.	6.3	4.2						4.2		1.0			65.6
SE	.[illegible]	4.7							4.7		2.8			69.2
SSE	1[illegible].	5.9	2.9						[illegible].8		2.9			66.7
S	.1	4.9	.6						4.3		4.3			80.4
SSW	1.2	[illegible].6							5.7		.4			86.1
SW	.[illegible]	[illegible].6							[illegible].6		1.3			83.5
WSW	1.2	7.8						.4	5.1		1.6			84.[illegible]
W	.	12.1	.3					.3	3.6		1.3			77.8
WNW	2.[illegible]	12.6							5.8					79.2
NW	.7	8.9							1.8					82.9
NNW	4.[illegible]	7.[illegible]												88.1
VARIABLE														
CALM	17.2	1.7	1.7	-	-	-	-	-	15.0	-	-	-	-	52.1
TOTAL	1[illegible]	187	14					3	129		32			1818
PERCENT	[illegible].4	8.1	.6					.1	5.6		1.4			79.1

TOTAL NUMBER OF OBSERVATIONS [illegible],299

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JANUARY 1973-DECEMBER 1982 NOVEMBER



TOTAL NUMBER OF OBSERVATIONS 2,273

NAVWEASERVCOM

II 2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

[illegible] JANUA[illegible]Y 1973-D[illegible]C[illegible]E[illegible] 1982 DECEMBE[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	FREEZING RAIN [illegible]	[illegible]	[illegible] GRAINS PELLETS [illegible]	HAIL [illegible]	[illegible]	[illegible]	[illegible] GROUND [illegible]	[illegible] HAZE	BLOWING [illegible]	BLOWING SAND AND [illegible]	[illegible] WEATHER
[illegible]	.[illegible]	[illegible].5				25.[illegible]								54.5
[illegible]	1.[illegible]	25.[illegible]				12.[illegible]								62.[illegible]
[illegible]	[illegible].7	1[illegible].7				16.7								5[illegible]
[illegible]	3.3	16.7				[illegible]3.3								5[illegible]
[illegible]	[illegible]	1[illegible].8				[illegible]1.3								43.[illegible]
[illegible]	.[illegible]					[illegible]0.0								7[illegible].0
[illegible]	1.					5.[illegible]								[illegible]2.4
[illegible]	.[illegible]	[illegible].3				7.[illegible]			[illegible].6					[illegible]1.6
[illegible]	.[illegible]	8.3				[illegible].1			1.3					[illegible]1.5
[illegible]	.[illegible]	3.[illegible]				7.1					.[illegible]			[illegible]5.7
[illegible]	.[illegible]	[illegible].3	.9			14.[illegible]		.5	.9		.9			74.3
[illegible]	[illegible].	5.2		.[illegible]		[illegible]1.1			.7		.3			62.2
[illegible]	.	7.[illegible]			.1	[illegible]1.2			.7		.1	.1		53.3
[illegible]	1.[illegible]	6.[illegible]	.[illegible]			[illegible]3.1			.3					49.4
[illegible]	[illegible]	[illegible].5				26.[illegible]								51.1
[illegible]	[illegible]	9.3	1.7			[illegible]0.[illegible]			1.7		1.7			45.[illegible]
[illegible]	1.[illegible]	1.[illegible]	-	-	-	13.2	-	-	3.8					[illegible]
[illegible]	76	131	4	1	1	6[illegible]5		1	16		7	1		145[illegible]
[illegible]	[illegible]	5.6	.2	.[illegible]	.[illegible]	29.4		.[illegible]	.7		.3	.0		[illegible]2.5

TOTAL NUMBER OF OBSERVATIONS [illegible],331

NAVWEASERVCOM

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

JANUARY 1973-DECEMBER 1982 ALL

		7.1	7.9			7.4		.6	.7		1.0			63.3
		7.5	10.1			5.5		.3	1		1.1			46.
	1	.7	9.			3.7		.7	21.2		1.6			45.
								.3	17.5		1.9			44.
			10.		.0	4.		.2	17.9		2.9			5 .6
		4.1	5.9			1.9		.3	16.3		1.9			55.6
	1	4.4	4.5			2.1		.1	17.8		1.9			68.
			2.2			3.4		.7	16.9		3.1			60.
		7.	.5			4.4		.3	.6		1.4			74.
		4.5	.2			4.2		.1	.5		1.7		.1	80.9
		4.5	.3			6.5		.1	.1		1.5		.0	80.7
	1	4.	.2		.0	14.6		.1	4.6		1.0		.2	73.9
		4.4	.2		.0	27.		.1	4.2		.6	.0	.1	61.5
		5.8	.2		.0	25.		.1	2.		.2		.1	64.
		6.	.8			15.	.1	.4	2.		.3	.1		70.
		7.8	3.7			14.0	.1		5.6		.9			62.3
	1	1345	818	1	4	3315	2	49	7602		360	3	14	17386
	.1	7.	4.7	.0	.0	12.2	.0	.2	5.6		1.3	.0	.1	64.2

TOTAL NUMBER OF OBSERVATIONS

NAVWEASERVCOM

[illegible]

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

B

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amount (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.

2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF PRECIPITATION
(FROM DAILY OBSERVATIONS)

[illegible], JAPAN — 4 -7[illegible], 78-3

STATION — STATION NAME — YEARS

	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	[illegible]	02 05	06 10	[illegible] 25	26 50	51 [illegible]	01 2 50	2 51 5 00	5 01 10 00	10 01 20 00	OVER 20 00				MEAN	GREATEST	LEAST
SNOWFAL	NONE	TRACE	[illegible] 0 4	0 5 1 4	1 5 2 4	2 5 3 4	3 5 4 4	4 5 6 4	6 5 10 4	10 5 15 4	15 5 25 4	25 5 50 4	OVER 50 4						
SNOW DEPTH	NONE	TRACE		2	3	4 6	7 12	13 24	25 36	37 48	49 60	61 120	OVER 120						
JAN	[illegible]	1[illegible]	[illegible].6	16.8	[illegible].4	14.[illegible]	7.[illegible]	2.6	2.[illegible]						[illegible]0.6	837	3.90	9.18	1.[illegible]
FEB	1.[illegible]	[illegible]	7.8	13.6	1[illegible].[illegible]	13.9	6.[illegible]	3.3	1.[illegible]						57.6	706	3.10	6.68	.9[illegible]
MAR	[illegible]	.3	5.6	14.1	6.[illegible]	7.6	4.[illegible]	[illegible].1	2.4	.1					43.2	8[illegible]6	3.03	8.[illegible]5	.7[illegible]
APR	[illegible]	1.[illegible]	[illegible].6	[illegible].4	[illegible].[illegible]	6.5	4.[illegible]	4.1	2.1						34.[illegible]	75[illegible]	2.87	7.13	.4[illegible]
MAY	[illegible].[illegible]	17.[illegible]	[illegible].[illegible]	[illegible].3	4.[illegible]	6.9	[illegible].[illegible]	4.2	[illegible].1	.1					33.[illegible]	8[illegible]6	3.15	1[illegible].38	.8[illegible]
JUN	.[illegible]	[illegible]2.[illegible]	[illegible].[illegible]	7.2	4.9	[illegible].[illegible]	6.1	4.3	4.[illegible]	.4					37.7	69[illegible]	4.54	1[illegible].11	1.3[illegible]
JUL	[illegible].[illegible]	[illegible].[illegible]	4.1	7.5	6.[illegible]	7.6	6.[illegible]	[illegible].[illegible]	[illegible].2	.4					41.4	775	[illegible].[illegible]	[illegible].31	1.4[illegible]
AUG	.[illegible]	[illegible]2.3	[illegible].[illegible]	[illegible].5	4.1	6.3	[illegible].1	[illegible].2	3.[illegible]						[illegible]6.[illegible]	775	4.10	7.69	.2[illegible]
SEP	[illegible].[illegible]	17.6	[illegible].[illegible]	[illegible].5	[illegible].[illegible]	7.[illegible]	[illegible].[illegible]	[illegible].4	[illegible].6	.9					44.[illegible]	78[illegible]	[illegible].[illegible]	17.[illegible]	1.[illegible]
OCT	[illegible].[illegible]	21.[illegible]	[illegible].3	7.3	[illegible].[illegible]	7.4	[illegible].[illegible]	[illegible].3	3.2	.6					36.1	8[illegible]6	[illegible].35	1[illegible].[illegible]	.4[illegible]
NOV	[illegible].[illegible]	[illegible].[illegible]	[illegible].1	11.7	[illegible].[illegible]	9.2	[illegible].1	4.1	1.[illegible]	.1					44.[illegible]	780	3.10	[illegible].17	.6[illegible]
DEC	1.[illegible]	[illegible].2	6.[illegible]	13.6	1[illegible].[illegible]	[illegible].2	6.[illegible]	2.1	1.[illegible]						51.[illegible]	806	2.89	6.62	1.11
ANNUAL	[illegible].2	[illegible].[illegible]	[illegible].4	[illegible].4	6.[illegible]	[illegible].8	[illegible].[illegible]	4.1	[illegible].[illegible]	.2					43.6	[illegible]317	[illegible]5.67	[illegible]	[illegible]

NAVWEASERVCOM

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SN FALL
(FROM DAILY OBSERVATIONS)

STATION [illegible] STATION NAME [illegible] 4-7[illegible], 78-[illegible] YEARS

	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
PRECIP	NONE	TRACE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	OVER 20.00			MEAN	GREATEST	LEAST
SNOW (INITIAL)	NONE	TRACE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	OVER 30.4					
SNOW DEPTH	NONE	TRACE	[illegible]	2	3	4-6	7-12	[illegible]	25-36	37-48	49-60	61-120	OVER 120						
JAN	1[illegible]	[illegible]	[illegible]	1[illegible]	17.7	6.[illegible]	[illegible].1	[illegible]	[illegible]	[illegible]	1.[illegible]	.2	.1		57.7	837	4[illegible].4	9[illegible].2	4.[illegible]
FEB	[illegible]	[illegible]	[illegible]	1[illegible]	15.[illegible]	7.4	5.5	3.[illegible]	1.8	1.4	.[illegible]	.3			52.5	706	2[illegible].[illegible]	5[illegible].9	4.4
MAR	.[illegible]	[illegible]	.3	1[illegible]	[illegible].7	4.[illegible]	2.7	1.2	1.2	1.[illegible]	.5	.1	.1		34.[illegible]	806	2[illegible].0	57.7	1.2
APR	.[illegible]	[illegible]	.1	[illegible].[illegible]	1.1	.[illegible]	.4	.[illegible]	.4	.[illegible]		.1			6.[illegible]	750	[illegible].6	18.[illegible]	[illegible]
MAY	[illegible].[illegible]	.[illegible]														806	TRACE	TRACE	.[illegible]
JUN	[illegible].[illegible]															7[illegible]	.[illegible]	.[illegible]	.[illegible]
JUL	.[illegible]															[illegible]06	.[illegible]	.[illegible]	.[illegible]
AUG	[illegible].[illegible]															[illegible]06	.[illegible]	.[illegible]	.[illegible]
SEP	[illegible].[illegible]															7[illegible]	.[illegible]	.[illegible]	.[illegible]
OCT	[illegible].[illegible]	1.[illegible]		.1	.1										.[illegible]	806	TRACE	.[illegible]	.[illegible]
NOV	.[illegible]	15.[illegible]		4.1	3.8	[illegible].4	1.[illegible]	.5	.6	.1	.1				12.[illegible]	780	5.9	21.3	[illegible]C
DEC	[illegible].[illegible]	[illegible].3	1[illegible].7	12.3	5.6	2.4	2.[illegible]	1.7	1.7	.2					3[illegible].[illegible]	806	2[illegible].6	39.4	1.[illegible]
ANNUAL	[illegible].[illegible]	11.3	[illegible].4	[illegible].[illegible]	[illegible].4	1.4	.[illegible]	.8	.[illegible]	.2	.1	.			16.[illegible]	9[illegible]9	11[illegible].4	[illegible]	[illegible]

NAVWEASERVCOM

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF SNOW DEPTH
(FROM DAILY OBSERVATIONS)

STATION [illegible] STATION NAME [illegible] 7 - 7 , 79 - - YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	OVER 20.00			MEAN	GREATEST	LEAST
	NONE	TRACE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	OVER 50.4					
	NONE	TRACE	[illegible]	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	1 •	•	•	•	7.5	7.7	19.7	22.7	13.1	3.	.7			[illegible]	[illegible]			
FEB	•	•	•	•	7.2	7.1	17.4	22.4	16.	1.6				7[illegible].	7[illegible]6			
MAR	•	12.[illegible]	5.7	.5	4.[illegible]	7.7	9.[illegible]	3.[illegible]	.3	.2				3[illegible].5	8[illegible]6			
APR	•	1.[illegible]	.7	.1	.1	.7	.[illegible]							1.	7[illegible]			
MAY	•														[illegible]6			
JUN	•														7[illegible]			
JUL	•														[illegible]			
AUG	•														[illegible]6			
SEP	[illegible]														7[illegible]			
OCT	[illegible]														[illegible]6			
NOV	[illegible]	2.5	1.[illegible]	1.3	1.[illegible]	.9	.[illegible]							.4	78[illegible]			
DEC	3.5	.9	3.5	7.[illegible]	3.[illegible]	1[illegible].6	[illegible].1							3[illegible].6	775			
ANNUAL	.7	7.[illegible]	2.4	2.2	1.[illegible]	4.7	[illegible].[illegible]	.7	.4	.1				19.7	9378			

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS L.S.T.

CONDITION

SPEED (KNTS) 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												1.1	
NNE													
NE													
ENE													16.
E													12.
ESE												1.1	
SE												1.	
SSE													
S												7.1	7.3
SSW												6.9	5.5
SW												12.1	
WSW												14.5	7.
W	1.4			11.	1.							1.2	10.3
WNW					1.							13.1	11.0
NW		1.1	2.1	1.									
NNW													10.
VARBL												1.	
CALM													
			7.	21.	1.	1.1						1 0.	

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION STATION NAME YEARS MONTH

CLASS HOURS (L S T

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE												1.	14.3
E													
ESE													4.
SE													3.
SSE												.1	
S												4.	6.
SSW												11.	4.7
SW												12.	.1
WSW												17.	.6
W												23.4	.1
WNW												15.4	11.4
NW													.1
NNW												3.4	
VARBL													
CALM												3.1	
	1.	34.7	35.	14.3	2.4	.7						10.	7.2

TOTAL NUMBER OF OBSERVATIONS 291

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PEAK WINDS
FROM DAILY OBSERVATIONS

[redacted] A, JAPAN (illegible)-72, 73-81
STATION NAME YEARS

DAILY PEAK GUSTS IN KNOTS
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
MEAN													
S.D.													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
FROM DAILY OBSERVATIONS

[illegible] STATION — [illegible], JAPAN STATION NAME — [illegible]-72, 7[illegible] YEARS

DAILY PEAK GUSTS IN KNOTS
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]													WINDS
				0	0	0	0	0	0	0	[illegible]	[illegible]	DAYS
[illegible]													WINDS
		0		0	0	0	0	0	0	0	[illegible]	[illegible]	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	[illegible]	[illegible]	[illegible]	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	0	0	0	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	0	0	[illegible]	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	0	0	0	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	0	0	[illegible]	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	0	[illegible]	[illegible]	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	0	[illegible]	[illegible]	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	0	[illegible]	0	DAYS
[illegible]													WINDS
		0	0	0	0	[illegible]	0	0	0	0	0	[illegible]	DAYS
[illegible]													WINDS
		0	0	0	0	0	0	0	0	0	0	0	DAYS
[illegible]						* 36					* 37		WINDS
		0	[illegible]	0	0	24					24		DAYS
[illegible]										* 2[illegible]			WINDS
										[illegible]7			DAYS
[illegible]6									WNW 43				WINDS
									26				DAYS
MEAN													
S.D.													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
FROM DAILY OBSERVATIONS

STATION ____ STATION NAME ____ (-77, 78-8 YEARS ____

DAILY PEAK GUSTS IN KNOTS

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
							SW 29	S 30	WSW 24	NE 36		W 46	
	48W	38WNW	39W	41SW 7	SSW 37	SW 30	WSW 22	W 59	ENE 47	W 37	W 35	S 72	
	59S?	51W	42WSW	36WSW 4	WNW 30	WSW 32	WSW 40	NW 31	NW 29	WNW 38	WNW 37	[illegible] 56	
	NW 47	WNW 35	NW 44	WSW 44	WNW 47	SW 36	ESE 27	SE 25	NW 33	WNW 32	W 37	WNW 40	WNW 47
	NW 38	ESE 39	WNW 44	W 40	SSE 37	SSE 35	WSW 29	SE 35	W 48	W 28	W 40	W 47	W 48
	NE 46	W 40	W 38	W 43	WSW 49	W 34	SSW 35	WSW 27	W 38	W 44	W 35		
	49	WNW 40	W 47	SE 37	W 51	E 31	SW 41	W 28	ESE 40	W 40	VW 36		
	NW 41	WNW 40	WNW 42	W 51	WSW 37	WNW 33	SW 39	ENE 23	ENE 46	NE 51	WNW 48	W 37	W 51
	40	WSW 33	W 39	WNW 38	N 43	SE 28	28	36	NNE 28	48	36	35	48
	30	37	47	35	47	30	29	44	39	36	36	38	44
	52	49	41	42	39	22	26	NE 36	26	36	47	45	W 52
	36 28	43 20	34 29	37 28	47 28	37 29	35 09	29 11	32 03	33 29	37 28	52	28 52
	29 45	28 39	29 32										
	51 29	35 30	47 26	44 27	42 32	34 27	27 24	39 32	29 29	32 27	36 27	44	31 51
	29 40	27 44	27 74	27 48	27 34	23 30	28 39	13 28	09 35	28 54	28 40	28 45	27 74
	29 42												
MEAN	42.5	39.9	42.6	41.2	43.1	31.5	31.5	30.9	36.2	39.5	39.2	40.5	36.4
S.D.	9.567	9.121	10.099	8.781	10.727	3.843	5.474	6.978	9.788	9.006	9.532	9.392	9.973
TOTAL OBS	464	384	430	424	401	382	424	428	383	397	385	424	4897

SMOS

PART C SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

a. Extreme Value - Peak Gust: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 20% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 20% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

b. 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. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

a. Three tables are prepared for all surface winds included, and for all years combined as follows:

(1) Annual - all hours combined

(2) By month - all hours combined

(3) By month - by standard 3-hour groups

b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: 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.

C

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

[illegible] STATION [illegible], JAPAN STATION NAME 46-72, 78-81 YEARS

DAILY SNOW DEPTH IN INCHES
(BASED ON LESS THAN FULL MONTHS)

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]				7									SNO DPTH
				12									DAYS
[illegible]												16	SNO DPTH
												30	DAYS
[illegible]													SNO DPTH
													DAYS
[illegible]													SNO DPTH
				22									DAYS
[illegible]		36											SNO DPTH
		26											DAYS
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
FROM DAILY OBSERVATIONS

STATION | STATION NAME | YEARS

DAILY SNOW DEPTH IN INCHES

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
6											3	1	
7		TRACE		1							TRACE		
	2												2
	15	17		6									
	15	17	43								1	1	43
		30	15								3	4	32
4											TRACE	10	10
5	22	13											22
		11									2	12	12
	15	17	6	TRACE							TRACE	1	15
	12	14		TRACE							TRACE		12
	18	5	TRACE									10	18
	48	24		TRACE							2		48
1	16	16									TRACE	4	16
		12											12
	39	21									TRACE	1	39
	18	24	17								1		24
		17	19								3	2	
6													9
6	30	22										4	30
	10										2	12	12
	14	13	11								5		14
			20								4		20
7		12											12
7													
7	14		24										
7	13										2		13
MEAN	16.4	13.2	9.5	1.2	.2	.0	.0	.0	.0	.1	1.9	6.1	21.0
S.D	10.892	7.928	9.151	2.322	.001	.000	.000	.000	.000	.000	2.222	3.677	11.504
TOTAL OBS	837	706	906	720	806	750	806	806	780	806	780	775	9378

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

[illegible] STATION | [illegible]MISAWA, JAPAN STATION NAME | 48-72, 78-8[illegible] YEARS

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]				.0 .2									SNOFALL DAYS
[illegible]						.0 25							SNOFALL DAYS
[illegible]1						.0 27							SNOFALL DAYS
7[illegible]		.0 28											SNOFALL DAYS
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

[illegible] | [illegible], JAPAN | 48-72, 78-80 |
STATION | STATION NAME | YEARS

24 HOUR AMOUNTS IN INCHES

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
48					.1	.0	.0	.0	.0	.0	3.2	1.1	
49	2.5	2.0	2.4	2.5	.1	.0	.0	.0	.0	.0	.2	7.6	7.6
50	7.6	9.3	11.3	3.0	.1		.0	.0	.0	TRACE	3.1	4.7	
51	8.0	10.6	8.4	7.2	.1		.0	.0	.0	.0	5.5	5.8	
52	5.5	6.5	43.1	TRACE	.1	.1	.0	.0	.0	TRACE	4.0	11.3	43.1
53	16.8	2.3	11.9	1.3	.1	.0	.0	.0	.0	.0	2.5	4.2	16.8
54	5.8	1.2	5.7	TRACE	TRACE	.0	.0	.0	.0	.1	.7	9.6	9.6
55	14.9	6.3	2.0	.4	.1	.0	.0	.0	.0	TRACE	TRACE	1.5	14.9
56	5.9	11.9	6.2	TRACE	.1	.0	.0	.0	.0	TRACE	2.6	11.6	11.9
57	7.1	10.0	4.3	1.9	.1	.0	.0	.0	.0	.6	.8	1.3	10.0
58	15.1	13.7	11.0	2.1	.1	.0	.0	.0	.0	.1	1.5	5.5	15.1
59	5.4	6.0	1.1	TRACE	.1	.0	.0	.0	.0	.0	.2	10.1	10.1
60	27.2	7.9	4.1	5.0	.1	.0	.0	.0	.0	.1	2.7	7.5	27.2
61	10.9	8.4	3.1	TRACE	.0	.0	.0	.0	.0	.0	5.4	6.7	10.9
62	7.4	4.1	8.8	.4	.1	.0	.0	.0	.0	.0	4.0	2.1	8.8
63	13.8	8.9	4.8	7.1	.1	.0	.0	.0	.0	.0	.1	2.5	13.8
64	14.7	14.4	6.8	.2	.1	.0	.0	.0	.0	.3	1.1	5.2	14.7
65	6.2	18.2	19.4	7.4	.1	.0	.0	.0	.0	.1	3.6	1.8	19.9
66	4.7	5.2	7.5	TRACE	.1	.0	.0	.0	.0	TRACE	4.6	9.3	9.3
67	11.4	13.0	1.9	.3	.1	.0	.0	.0	.0	.0	2.2	7.4	13.4
68	8.1	5.6	5.5	6.2	.1	.0	.0	.0	.0	.1	1.7	9.9	9.9
69	7.8	12.2	7.1	7.5	.1	.0	.0	.0	.0	.0	11.0	6.7	12.2
70	5.3	8.9	14.1	.1	.1	.0	.1	.0	.0	TRACE	4.2	5.6	14.1
71	7.1	6.2	6.5	.2	TRACE	.2	.1	.0	.0	.0	4.6	6.9	7.1
72	8.7	3.2	3.9										
73	7.5		8.1	.4	.1	.0	.1	.0	.0	TRACE	TRACE	9.8	
74	15.2	3.5	2.1	19.1	.1	.0	.1	.0	.0	.1	6.0	10.1	15.7
75	3.2												
MEAN	9.33	8.18	8.27	2.98	TRACE	.00	.00	.00	.00	.01	2.90	6.36	14.37
S.D.	5.299	4.943	8.329	4.602	.007	.008	.006	.000	.000	.127	2.487	3.291	7.854
TOTAL OBS	831	706	806	750	806	720	806	806	780	806	780	806	9409

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

[illegible] STATION | [illegible]WA, JAPAN STATION NAME | 49-72, 7P-8 YEARS

24 HOUR AMOUNTS IN INCHES
(BASED ON LESS THAN FULL MONTHS)

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]				1.39 22									PRECIP DAYS
[illegible]						.79 26							PRECIP DAYS
[illegible]						1.[illegible] 27							PRECIP DAYS
[illegible]						1.39 28	.77 30	3.75 [illegible]					PRECIP DAYS
[illegible]		.77 2[illegible]											PRECIP DAYS
MEAN													
S D													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

[illegible] [illegible]A, JAPAN — 4[illegible]-72, 78-81
STATION — STATION NAME — YEARS

24 HOUR AMOUNTS IN INCHES

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]					.2[illegible]	2.6[illegible]	1.3[illegible]	1.7[illegible]	3.6[illegible]	.3[illegible]	.[illegible]6	1.7[illegible]	
[illegible]	1.0[illegible]	[illegible].2[illegible]	.4[illegible]	1.7[illegible]	.5[illegible]	.6[illegible]	2.7[illegible]	2.43	1.6[illegible]	3.33	1.76	.6[illegible]	3.33
[illegible]	.[illegible]3	1.01	1.1[illegible]	.9[illegible]	.5[illegible]		1.2[illegible]	.2[illegible]	1.4[illegible]	1.7[illegible]	1.4[illegible]	1.0[illegible]	
[illegible]	.90	1.[illegible]6	.3[illegible]	2.02	1.1[illegible]		2.5[illegible]	.[illegible]2	1.2[illegible]	3.76	3.59	.8[illegible]	
[illegible]	1.4[illegible]	.6[illegible]	4.31	.5[illegible]	.3[illegible]	.7[illegible]	1.5[illegible]	1.26	.8[illegible]	1.0[illegible]	.42	1.1[illegible]	4.31
[illegible]	1.6[illegible]	.2[illegible]	1.2[illegible]	1.13	.7[illegible]	2.31	.66	.97	1.89	.1[illegible]	1.02	1.03	2.31
[illegible]	.66	.31	.6[illegible]	2.1[illegible]	.6[illegible]	2.14	.41	.9[illegible]	1.92	2.3[illegible]	.55	1.27	2.35
[illegible]	1.62	.95	.41	.63	2.13	3.06	.99	1.76	1.54	2.44	.76	.84	3.06
[illegible]	.[illegible]8	1.1[illegible]	1.1[illegible]	1.2[illegible]	.3[illegible]	1.3[illegible]	.63	1.16	1.17	.91	2.10	1.03	2.10
[illegible]	1.03	.9[illegible]	.7[illegible]	.5[illegible]	1.4[illegible]	.43	3.5[illegible]	.62	1.4[illegible]	1.3[illegible]	.26	1.0[illegible]	3.59
[illegible]	1.9[illegible]	1.8[illegible]	1.24	1.12	.8[illegible]	1.2[illegible]	2.4[illegible]	.9[illegible]	4.37	2.1[illegible]	1.29	1.81	4.37
[illegible]	.4[illegible]	.6[illegible]	1.5[illegible]	.6[illegible]	.5[illegible]	1.50	1.0[illegible]	1.46	2.29	1.0[illegible]	1.55	.5[illegible]	2.29
[illegible]	2.2[illegible]	.9[illegible]	1.6[illegible]	.7[illegible]	.9[illegible]	.76	1.1[illegible]	1.4[illegible]	1.6[illegible]	2.6[illegible]	.8[illegible]	1.5[illegible]	2.62
[illegible]1	.9[illegible]	1.3[illegible]	.1[illegible]	1.46	.3[illegible]	1.46	1.00	.6[illegible]	1.21	1.9[illegible]	.5[illegible]	.66	1.95
[illegible]	1.6[illegible]	.3[illegible]	1.61	.5[illegible]	.9[illegible]	1.0[illegible]	.4[illegible]	1.01	2.0[illegible]	1.7[illegible]	.4[illegible]	.1[illegible]	2.0[illegible]
[illegible]	1.4[illegible]	.6[illegible]	1.2[illegible]	.85	1.1[illegible]	1.0[illegible]	2.3[illegible]	1.63	.5[illegible]	1.52	1.0[illegible]	.75	2.38
[illegible]	1.2[illegible]	1.5[illegible]	.4[illegible]	1.2[illegible]	2.0[illegible]	.6[illegible]	2.0[illegible]	2.1[illegible]	2.1[illegible]	.86	1.9[illegible]	.2[illegible]	2.15
[illegible]	1.3[illegible]	.4[illegible]	2.0[illegible]	.4[illegible]	1.92	.56	1.56	.79	1.52	.20	1.66	1.08	2.0[illegible]
[illegible]6	.0[illegible]	.7[illegible]	1.1[illegible]	1.2[illegible]	.8[illegible]	4.36	1.6[illegible]	1.29	3.36	2.36	.3[illegible]	.4[illegible]	4.36
67	.7[illegible]	.5[illegible]	.42	.8[illegible]	1.1[illegible]	.68	1.00	1.06	2.99	1.9[illegible]	.63	.33	2.99
[illegible]	.5[illegible]	.[illegible]1	.41	2.2[illegible]	2.5[illegible]			.4[illegible]	3.4[illegible]	.61	1.11		
[illegible]	1.0[illegible]	.53	.6[illegible]	1.1[illegible]	1.7[illegible]	1.6[illegible]	1.4[illegible]	1.5[illegible]	1.66	.6[illegible]	.2[illegible]	1.1[illegible]	1.8[illegible]
[illegible]	.4[illegible]	.31	.6[illegible]	1.2[illegible]	.2[illegible]	1.3[illegible]	1.0[illegible]	2.35	.4[illegible]	.7[illegible]	2.02	.5[illegible]	2.35
[illegible]1	.5[illegible]	.3[illegible]	1.7[illegible]	1.33	1.31	.83	1.06	.99	2.78	2.9[illegible]	.38	.5[illegible]	2.92
[illegible]	2.20	2.30	1.31										
[illegible]	.7[illegible]		.7[illegible]	.1[illegible]	2.5[illegible]	2.3[illegible]	.8[illegible]	1.5[illegible]	1.8[illegible]	2.27	.90	.4[illegible]	
[illegible]	1.1[illegible]	1.3[illegible]	1.16	1.1[illegible]	1.1[illegible]	1.7[illegible]	.8[illegible]	1.42	3.0[illegible]	2.10	2.22	1.01	3.08
[illegible]	2.36												
MEAN	1.1[illegible]	.9[illegible]	1.1[illegible]	1.1[illegible]	1.1[illegible]	1.5[illegible]	1.4[illegible]	1.26	1.90	1.76	1.15	.8[illegible]	2.79
S.D.	.5[illegible]	.6[illegible]	.4[illegible]2	.5[illegible]	.6[illegible]	.9[illegible]	.7[illegible]	.571	.[illegible]88	1.01[illegible]	.7[illegible]	.4[illegible]	.805
TOTAL OBS	9[illegible]	70[illegible]	80[illegible]	750	80[illegible]	690	77[illegible]	775	78[illegible]	[illegible]56	760	[illegible]06	9317

SMOS

12
2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH 1

CLASS ALL WEATHER HOURS (L.S.T.)

CONDITION _____

SPEED (KNTS) 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	•	1.4	1.4	.7								5.2	6.1
NNE	•		•	•								1.2	5.3
NE		•	•	•								1.4	10.3
ENE		•		•								1.2	10.7
E	•	•				•						1.4	5.5
ESE			•		.3							.7	13.0
SE				.7								.7	13.0
SSE		•										.3	5.0
S		1.4	1.4	1.4								4.3	7.4
SSW		•	•	.7								2.1	8.3
SW		1.4	1.4									2.8	6.6
WSW	1.4	.7	2.1	1.4	.3							5.9	8.6
W	•	2.4	2.7	14.3	9.6	1.4						32.3	13.2
WNW	•	1.7	6.7	11.5	3.5	1.						24.4	12.5
NW	•	2.1	3.5	4.	1.7	.7						12.2	10.9
NNW	•	1.	1.7	.7	.7							3.5	8.6
VARBL													
CALM												.7	
	.4	1.3	26.1	35.3	12.2	3.1						100.0	11.2

TOTAL NUMBER OF OBSERVATIONS 2

SMOS

2

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

ALL WEATHER
CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) 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.	1.	1.	.7								4.7	6.1
NNE	.		.									.7	6.0
NE		.	.									1.3	7.0
ENE			.	.7								.7	12.5
E	1.	1.7	.7		.7	.7						3.7	7.5
ESE		1.	.		.7							2.0	9.5
SE		1.		.7								1.3	6.3
SSE	.		1.									1.3	5.8
S		.	.									1.0	7.3
SSW	.		.									2.4	5.1
SW	.	.7	1.									2.0	6.5
WSW		.	2.	2.7	.7							5.1	11.9
W	1.	1.	1.1	15.5	4.7	1.7						29.0	13.0
WNW	.	2.	4.	14.1	4.4	.7	.3					26.6	13.1
NW	.	1.	3.	4.	1.	.7						10.7	11.0
NNW	.	2.	2.4	1.								6.1	7.5
VARBL													
CALM												1.3	
	3.1	12.	21.3	39.7	10.8	2.7	.3					100.0	11.0

TOTAL NUMBER OF OBSERVATIONS 297

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS 73-82 MONTH JAN

CLASS ALL WEATHER HOURS (L S T) 1[illegible]

CONDITION _____

SPEED (KNTS) 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	.[illegible]	.[illegible]										1.4	3.0
NNE	.[illegible]											.[illegible]	1.0
NE		.[illegible]	.[illegible]	.[illegible]	.3							1.4	10.5
ENE	.[illegible]			.[illegible]								.[illegible]	8.5
E	.[illegible]				.[illegible]	.3						1.0	15.0
ESE		.[illegible]	.[illegible]	.[illegible]								1.4	8.0
SE		.[illegible]										.[illegible]	5.0
SSE	.[illegible]	.[illegible]	.[illegible]									3.[illegible]	4.[illegible]
S	.[illegible]	3.[illegible]	.[illegible]									4.[illegible]	4.4
SSW	1.[illegible]	2.4	1.[illegible]	.[illegible]								[illegible].1	4.9
SW	1.[illegible]	2.[illegible]	1.[illegible]									4.[illegible]	5.0
WSW	.[illegible]	.1	5.[illegible]	.[illegible]								12.[illegible]	7.2
W	2.4	3.8	13.[illegible]	[illegible].1	4.1		.[illegible]					36.5	9.6
WNW	1.[illegible]	3.4	3.4	5.1	1.[illegible]							14.2	7.5
NW	.[illegible]	2.[illegible]	2.[illegible]	1.4	.3							7.1	7.6
NNW	.[illegible]	.[illegible]	1.[illegible]	1.[illegible]								3.[illegible]	8.3
VARBL													
CALM												3.4	
	1[illegible].[illegible]	2[illegible].1	30.4	17.6	6.1	.3	.3					1[illegible]0.[illegible]	7.9

TOTAL NUMBER OF OBSERVATIONS 296

SMOS

2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH JAN

CLASS ALL WEATHER HOURS (L S T 21

CONDITION _____

SPEED (KNTS) 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	•	•	•	•								2.0	5.3
NNE	•											.3	1.0
NE													
ENE		•		•	•							1.4	11.5
E	•	•			•							1.4	11.5
ESE			•									.3	10.0
SE	•		•									.7	5.0
SSE			•									1.7	8.6
S	•	•	1.4	•								3.5	5.3
SSW	•	•	•	•								3.2	5.2
SW	•	4.0	4.4	.7								11.9	6.0
WSW	•	.6	5.0	2.7	.3							10.2	7.1
W	1.7	7.5	6.2	6.5	1.7	.3						26.6	9.3
WNW	1.0	1.7	4.4	2.7	.3	.3						10.6	8.7
NW		2.9	1.4	1.7								5.5	8.5
NNW		1.7	.7	1.0	.7							3.4	9.1
VARBL													
CALM												1.7	
	10.0	35.5	30.4	17.1	3.8	.7						100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 293

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

A, JAPAN — STATION / STATION NAME

[illegible]-[illegible] — YEARS

JAN — MONTH

ALL WEATHER — CLASS

ALL — HOURS (L S T)

CONDITION

SPEED (KNTS) 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	•	•	•	•								1.9	5.7
NNE	•	•	•	•								•	4.8
NE		•	•	• 1	•							•	9.3
ENE	•	• 1	•	•	•							•	12.1
E	•	•	•	•	•	• 1						1.3	9.6
ESE	•	•	•	• 1	• 1							•	9.1
SE	•	•	• 1	•								•	5.6
SSE	•	•	•									1.7	5.9
S	1.1	1.0	1.6	•								4.2	6.0
SSW	1.2	4.0	1.4	•								7.2	5.4
SW	• 2	4.5	3.4	•								9.3	6.0
WSW	1.2	4.4	5.5	1.4	• 3	• 1						13.2	7.4
W	•	7.1	9.9	9.4	2.5	• 5	• 2					30.5	10.1
WNW	• 7	2.2	3.5	5.0	1.9	• 5	• 1					15.3	11.4
NW	• 4	1.4	2.2	2.1	• 3	• 1						6.5	9.4
NNW	•	1.0	1.0	• 7	• 1	•						3.1	8.5
VARBL													
CALM												2.3	
	10.1	27.2	31.2	21.8	5.5	1.2	• 1					100.0	8.5

TOTAL NUMBER OF OBSERVATIONS 2321

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) 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	.	.	1.3	.4								2.3	7.8
NNE	.	.	.									1.1	5.7
NE	.		.		.4							1.1	9.7
ENE	.		.	.		.						1.	9.2
E				.		.4						1.1	15.7
ESE				.	.4							1.1	13.3
SE	.	.		.4								1.	5.5
SSE	.	.	.									1.	4.5
S	.1	.	.	.4								2.4	4.2
SSW	.1	.4	1.1									7.7	5.1
SW	.	.	1.									11.1	5.0
WSW	1.	.	.	.								14.2	7.7
W	.	7.7	7.7	4.5	1.5							27.6	8.5
WNW	1.1	1.	3.7	4.2	.4							15.	7.4
NW	.	.	1.1	.4	.4							3.1	7.9
NNW	.	.	.									1.	4.6
VARBL													
CALM												4.	
	1 .	3.1	21.	17.4	7.1	.						1 0.0	7.1

TOTAL NUMBER OF OBSERVATIONS _____ 1

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS 257

SMOS

2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L.S.T.) _____

CONDITION _____

SPEED (KNTS) 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	.		.									.7	5.0
NNE		.	.									.7	7.5
NE				.								.4	13.0
ENE				.								.4	12.0
E			.	.	.4	1.1						3.	16.3
ESE	.	.										.	3.5
SE	.											.4	2.0
SSE	.	.	.									1.	5.0
S	1.	2.	1.									5.6	4.9
SSW	.	4.	1.9									9.5	4.9
SW	1.	5.	5.	1.1								17.8	6.0
WSW	.	.	2.	1.								14.4	6.5
W	.	6.3	4.	6.7	1.1							24.1	8.1
WNW	.	1.1	5.6	1.1	.4							10.0	8.1
NW	.	.	1.1	.4	.4							3.3	8.3
NNW	1.1	.	.	.4								2.	6.0
VARBL													
CALM												4.	
	3.	34.1	24.4	13.0	2.2	1.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

10
2

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

ALL WEATHER
CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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	•	•	•	• 4								1 •	7.8
NNE													
NE	•											•	1.0
ENE			•	•								•	1 .0
E	•		•	1 •	• 4	1 • 2						3 •	15.7
ESE	•											• 4	3.0
SE		•	•									1 • 2	5.7
SSE		•	•									•	6.5
S		•	•									4 • 3	6.7
SSW	•	4 •	3 •									9 • 1	5.7
SW	•	• 1	2 •	•								11 • 0	6.0
WSW	2 •	5 •	5 • 1	2 •	• 4							15 • 4	7.2
W	3 •	7 •	8 • 7	7 • 9	1 • 6	• 4	• 4					30 •	8.2
WNW	1 •	2 •	3 •	4 • 7	• 4							12 •	9.5
NW	•	•	•	1 • 2								3 •	6.8
NNW		•	•	•								1 •	6.8
VARBL													
CALM												7 • 1	
	14 • 0	2 •	2 • 7	19 • 3	3 •	1 • 6	• 4					1 0 • 0	7 •

TOTAL NUMBER OF OBSERVATIONS 2 5 4

SMOS

2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH FEB

CLASS ALL WEATHER HOURS (L S T) 1

CONDITION _____

SPEED (KNTS) 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	[illegible]	1.[illegible]	1.[illegible]									4.[illegible]	6.1
NNE													
NE			•			•						1.[illegible]	13.[illegible]
ENE	•	•	•	•								1.[illegible]	5.6
E	•	1.	1.[illegible]	1.[illegible]		•						5.	9.3
ESE		•	[illegible]	•	•							3.	10.[illegible]
SE		•	1.[illegible]	1.[illegible]								3.[illegible]	10.1
SSE		•	•									•	7.[illegible]
S	•	•	•	•								2.[illegible]	[illegible].1
SSW		1.	1.[illegible]	•		•						[illegible]	9.1
SW	•	[illegible]		•	•							3.[illegible]	7.4
WSW	•	1.[illegible]	•	[illegible]	•							5.	11.0
W	•	•	[illegible].1	1[illegible]	[illegible].4	1.[illegible]	•					23.[illegible]	14.5
WNW	•	•	[illegible]	12.[illegible]	3.[illegible]	•						22.[illegible]	13.2
NW	•	•	[illegible]	[illegible].1	1.2							[illegible].9	11.2
NNW	[illegible]	3.[illegible]	1.[illegible]	•								[illegible].4	5.6
VARBL													
CALM												1.[illegible]	
	[illegible]	1.3	24.[illegible]	34.[illegible]	11.2	3.[illegible]	•					1[illegible].[illegible]	11.[illegible]

TOTAL NUMBER OF OBSERVATIONS 25[illegible]

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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	.5	2.7	.	.4								3.6	5.3
NNE	.1	.4	.									2.3	5.2
NE		1.	1.3	.4								3.7	8.1
ENE	.	.7	.	.4	.4							2.3	9.3
E	.	1.1	1.3	1.1	.5							4.6	9.1
ESE	.	.	2.7	1.9								5.7	10.2
SE		.	.9	.								1.9	6.4
SSE		.	1.1	.4								1.7	8.0
S		.	1.									1.7	7.6
SSW		.	.									1.1	6.7
SW			.	.	.4							1.	13.3
WSW	.	.	.	2.3	.4		.4					4.2	12.5
W	.	.7	.	12.1	4.2	.1	.4					19.7	15.1
WNW	.	1.	.4	14.	4.9	.5	.4					22.2	13.1
NW	.1	1.1	1.	2.4	.4							7.2	10.4
NNW	.1	1.	.7	.4								4.5	7.3
VARBL													
CALM												.	
	.5	14.5	2.	39.4	12.1	1.	1.1					100.2	11.3

TOTAL NUMBER OF OBSERVATIONS 2-4

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) 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			.4								1.1	5.0
NNE	.			.4								.7	7.0
NE	.1		.	.7		.4						3.1	8.6
ENE		.	.	.4	.4							1.7	11.5
E	.	.	.	.	.4							2.7	8.4
ESE	.	.1	1.5	.7								3.7	7.4
SE		.	1.	.4								2.2	5.3
SSE	.1	1.1	.	.								3.7	6.
S	.	.	2.	.4								4.1	7.5
SSW	.	.	.									1.2	6.0
SW	.1	1.	.	.4	.4							4.1	7.3
WSW	.	.	.	2.2								5.7	7.8
W	1.	4.	11.	.9		.7						17.8	9.5
WNW	.	3.	6.7	3.	1.1	.4						17.0	8.
NW	.1	3.	3.	1.5	.4							8.9	8.0
NNW	1.	.	1.1	.								4.1	6.4
VARBL													
CALM												4.1	
	1.4	20.	3	21.5	2.6	1.						1 0.	7.9

TOTAL NUMBER OF OBSERVATIONS 27

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T) _____

CONDITION _____

SPEED (KNTS) 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	•		•	•								1.1	7.7
NNE				•								•	11.0
NE			•		•							1.1	12.7
ENE	•	•		•	•							1.	12.8
E	•		1.	•		•						2.	12.7
ESE				•								•	11.0
SE		•	1.	•								3.	5.4
SSE	•	1.	1.									4.	5.3
S	•	1.	•									7.	4.4
SSW	•	4.	1.									6.	4.
SW	1.	4.	2.	•								7.	6.1
WSW	•	4.	4.	1.	•							11.	7.5
W	•	1.	11.	4.	2.	•						22.	8.3
WNW	•	1.	7.	4.								12.	9.3
NW	•	•	1.	•	•							3.	5.9
NNW		1.	•									2.	5.5
VARBL													
CALM												4.	
	1.	3.	33.1	13.	4.1	1.						10.	7.3

TOTAL NUMBER OF OBSERVATIONS 6

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND [illegible] (FROM HOURLY OBSE[illegible]NS)

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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	.1	1.1								4.3	3.9
NNE												.4	7.2
NE		.	.1	1.1								3.	9.7
ENE		1.1	3.	1.1	.4							5.	9.2
E	.7	1.4	.1	2.5	.4	.4						12.	9.9
ESE		.	.7	.5	1.9	.						14.	13.6
SE	.7	.	1.1	1.4	1.1	.7						5.	12.9
SSE		.										.	6.
S			.1	1.4								2.	1 .6
SSW			.	1.	.4							.1	13.
SW			1.1	1.	1.4							4.3	13.6
WSW			1.	2.	2.1	2.1						.	17.1
W		1.1	1.1	1.	.	3.						13.	17.3
WNW		.	.4	4.6	4.3	1.						11.	16.3
NW			1.	4.7	1.1	.4						7.	13.9
NNW		.	.7	1.4								2.	9.6
VARBL													
CALM												.	
	.7	7.9	27.4	35.6	14.9	9.8						1 C.	13.4

TOTAL NUMBER OF OBSERVATIONS [illegible]21

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH

CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) 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													
NNE													
NE													
ENE				1.2	.4								
E		1.	2.4	.4	.4								
ESE				2.7	.8								
SE				1.6	.4		.4						
SSE													
S				1.6									
SSW			1.2	2.									
SW			2.	2.4	1.2								
WSW			2.	3.	2.4	.4	.4						
W		1.2	1.	7.1	4.7	1.6	.4						
WNW		1.		4.3	3.1	.4							
NW				1.2	1.2								
NNW				1.2									
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) 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	•	1.1	•	•								2.	5.4
NNE	•		•									1.1	3.3
NE	•	•										1.1	3.7
ENE		•		•								•	3.5
E	1.1	1.	•	1.1	•							4.	7.9
ESE	•	•	2.	1.	•	•						5.	10.7
SE		•	2.		•							6.	9.1
SSE	1.	2.	•	•								4.	4.7
S	1.	2.	1.	•	•							7.	6.6
SSW	1.	2.3	3.	•								7.	5.5
SW	•	5.6	3.	•			•					14.7	5.6
WSW	•	1.1	1.	3.	1.							11.7	8.6
W	•	4.1	4.1	3.	1.9							16.	8.9
WNW	•	1.	2.3	2.3	•							6.	9.7
NW		•										•	6.5
NNW	•	1.	•									3.	4.6
VARBL													
CALM												3.	
	1.	2.	24.7	15.	4.	•	•					100.	7.3

TOTAL NUMBER OF OBSERVATIONS 366

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH AP

CLASS ALL WEATHER HOURS (L S T

CONDITION _____

SPEED (KNTS) 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	.	[illegible]										2.4	[illegible]
NNE	.		.4									1.2	4.2
NE	.	.										1.[illegible]	3.9
ENE	. [illegible]	.[illegible]	.		.4							2.[illegible]	[illegible].0
E	.	.[illegible]	.	.4	.4							3.1	7.[illegible]
ESE		1.[illegible]	1.2	2.[illegible]	.4							5.[illegible]	10.3
SE	.	[illegible].[illegible]	1.2	.[illegible]	.4	.4						[illegible].[illegible]	7.6
SSE	1.[illegible]	1.[illegible]										2.[illegible]	3.9
S	1.	2.[illegible]	1.[illegible]	.4								6.3	5.8
SSW	[illegible].2	.1	4.[illegible]	.[illegible]								11.[illegible]	6.2
SW	1.	3.[illegible]	4.[illegible]	.8								10.[illegible]	6.8
WSW	.	[illegible].1	[illegible].[illegible]	3.[illegible]	1.6							13.[illegible]	9.2
W	[illegible].[illegible]	[illegible].1	[illegible].[illegible]	[illegible].1	.[illegible]	.4						13.[illegible]	9.4
WNW	[illegible].[illegible]	.4	[illegible].	1.[illegible]	.4							6.7	7.8
NW	.[illegible]	.[illegible]	1.[illegible]	.[illegible]								3.1	6.0
NNW	1.[illegible]	.4	.4									2.4	3.0
VARBL													
CALM												[illegible].1	
	1[illegible].[illegible]	31.[illegible]	23.[illegible]	16.9	4.3	.[illegible]						1[illegible].[illegible]	[illegible].1

TOTAL NUMBER OF OBSERVATIONS 2[illegible]4

NAVAIR

2

SURFACE WINDS

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

STATION _____ STATION NAME JAFA YEARS _____ MONTH _____

CLASS ALL WEATHER HOURS (L.S.T.) _____

CONDITION _____

SPEED (KNTS) 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	.	.									2.5	4.0
NNE	.	.										1.2	3.7
NE	.	.										.	3.5
ENE	.		.									.	5.5
E	.	.	.	.	.							2.9	10.1
ESE	.	1.	1.	.	.	.						6.1	9.5
SE		.	1.9	1.9	.							4.5	9.3
SSE	1.	1.										2.	3.6
S	.	2.	3.	1.2								9.4	5.7
SSW	.	3.	4.5	.								8.2	7.2
SW	.	3.3	4.	2.	.							11.1	8.5
WSW	1.2	3.	4.	2.	.							13.1	8.5
W	4.	2.	2.	4.	.		.					15.6	8.1
WNW	.	2.	1.	1.	.							7.	9.4
NW	1.	1.9	1.	.	.							5.7	6.9
NNW	.	.										1.2	3.0
VARBL													
CALM												6.6	
	1.	25.	26.2	16.	4.9	.	.					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 244

BMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

ALL WEATHER
CLASS

ALL
HOURS (L S T

CONDITION

SPEED (KNTS) 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	.	1.1	.	.								2.3	5.9
NNE	.	.	.	.								1.1	6.2
NE	.	.	.	.	.1	.1						1.1	9.1
ENE	.	.	.	.								1.2	8.6
E	.	.	1.4	1.	.4	.2						4.2	9.9
ESE	.	1.	1.	1.	.2	.1						3.7	9.5
SE	.	1.1	1.	1.4	.6	.1						5.1	9.9
SSE	.	1.4	.	.	.							3.2	5.9
S	1.1	1.	1.1	.4								4.4	5.9
SSW	1.1	2.	1.4	.	.							5.7	5.7
SW	1.1	3.	2.	.7	.4		.1					8.	7.1
WSW	1.2	2.	3.4	2.5	.5		.3					10.4	8.6
W	.	4.	5.	6.1	3.4	.9	.2	.0				22.	11.0
WNW	1.0	1.	2.	3	2.3	.7	.1					13.6	12.5
NW	.	1.1	1.	1.	.2	.						5.4	9.3
NNW	.	.	.	.	.							2.	7.8
VARBL													
CALM												2.	
	11.	24.	27.0	22.	8.3	2.1	.4	.0				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 2251

2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS 73-82 MONTH MAR

CLASS LL WEATHER HOURS (L S T 21

CONDITION _____

SPEED (KNTS) 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	.7	.4										.7	4.0
NNE	.4											.4	3.0
NE		.7				.4						.7	15.0
ENE	.4		.7	1.1								2.1	10.3
E		1.1		.7	.7	.4						2.5	13.1
ESE		1.	1.4	.4	.4							3.2	8.6
SE		1.	1.7	1.1	.4							5.2	8.7
SSE		.4										2.1	5.3
S	.7	3.7	1.1	.7								4.5	5.3
SSW	.7	2.	1.1									4.5	5.5
SW	2.	6.5	1.4	.7								11.4	5.3
WSW	.4	2.7	2.	1.1	.4							3.5	6.8
W	2.1	.2	1.7	6.4	2.5			.4				30.2	9.4
WNW	1.1	1.	2.5	4.3	.4	.4						10.3	10.3
NW		2.	.7	.7								4.3	6.8
NNW		1.1	.7									1.7	6.2
VARBL													
CALM												2.7	
	12.2	37.0	24.4	17.1	4.6	1.1		.4				100.2	7.8

TOTAL NUMBER OF OBSERVATIONS 281

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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.[illegible]	•									2.[illegible]	5.5
NNE	1.[illegible]			•								[illegible]	5.7
NE	•		•		•							1.[illegible]	9.4
ENE	•		•	•								1.[illegible]	7.7
E	[illegible]	1.4	1.[illegible]	1.4	•	•						6.[illegible]	9.3
ESE	•	2.4	2.	1.[illegible]	•							7.1	8.2
SE	•	1.[illegible]	[illegible].4	1.[illegible]	•							7.8	8.3
SSE	•	1.4	•									2.4	5.4
S	•	•	•	•								2.[illegible]	8.3
SSW		1.	•									1.[illegible]	6.6
SW		1.	1.[illegible]									2.4	6.[illegible]
WSW	•	1.4	[illegible].4	1.[illegible]	•							7.[illegible]	9.8
W	•	[illegible].4	[illegible].[illegible]	7.[illegible]	4.1	1.						24.1	11.7
WNW	•	3.[illegible]	[illegible].[illegible]	6.[illegible]	1.	•						18.[illegible]	10.1
NW	•	1.4	4.1	1.4	.3							7.8	8.7
NNW	•	•	1.4	•								3.1	7.7
VARBL													
CALM												1.[illegible]	
	•	21.4	33.[illegible]	24.1	7.8	2.[illegible]						1[illegible].[illegible]	9.3

TOTAL NUMBER OF OBSERVATIONS 295

SMOS

2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS ALL WEATHER HOURS (L S T) 15

CONDITION _____

SPEED (KNTS) 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	•	2.1	1.4	•								4.5	6.6
NNE		•	•	•								1.0	5.3
NE	•	•	1.7	•								2.4	7.9
ENE		•	1.	•								2.4	8.6
E	•	2.1	3.8	1.7	•	•						7.7	9.7
ESE		•	3.8	4.9	•							9.8	11.4
SE		•	1.	2.1	•	•						4.5	13.1
SSE				•	•							1.0	14.3
S		•	•	•								1.4	8.5
SSW	•			•								1.0	11.7
SW		•	2.1	1.4	•							4.2	11.4
WSW		•	•	3.2	•							5.2	13.1
W			1.	•	6.6	3.1	•					19.9	16.7
WNW		•	2.1	9.1	6.6	2.4	•					21.0	16.2
NW		•	1.4	6.3	•							8.4	12.4
NNW	•		1.4	2.	•							4.9	11.1
VARBL													
CALM												•	
	•	9.4	22.4	44.4	16.1	6.7	•					100.0	13.2

TOTAL NUMBER OF OBSERVATIONS 286

BMOS

NAVAL WEATHER SERVICE
DETACHMENT
[illegible]

SURFACE WINDS

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

[illegible] A, JAPAN — [illegible] — [illegible]
STATION — STATION NAME — YEARS — MONTH

ALL WEATHER
CLASS — HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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	•	[illegible]	1.[illegible]	.[illegible]								5.[illegible]	[illegible].1
NNE	.[illegible]	.[illegible]	.[illegible]									1.[illegible]	[illegible].4
NE		1.[illegible]	.[illegible]									2.4	5.[illegible]
ENE		.	1.									1.4	7.5
E		.[illegible]	3.[illegible]	1.[illegible]	.[illegible]							6.3	[illegible].[illegible]
ESE	.[illegible]	.[illegible]	3.[illegible]	4.5		.[illegible]						[illegible].[illegible]	10.4
SE	.	.[illegible]	1.	1.[illegible]	1.4	.[illegible]						5.[illegible]	12.9
SSE	.	1.[illegible]	1.4	.[illegible]								3.1	[illegible].3
S													
SSW	.[illegible]	.[illegible]	.[illegible]	.3	.[illegible]							3.1	[illegible].5
SW		.[illegible]	.[illegible]	.[illegible]	1.4		.3					[illegible].1	14.4
WSW		.[illegible]	1.[illegible]	4.5	.7							[illegible].[illegible]	12.[illegible]
W	.	.[illegible]	1.[illegible]	5.6	6.6	1.[illegible]	.3					17.8	15.9
WNW		1.	2.1	1.1	5.6	2.1	.7					22.[illegible]	16.0
NW		.[illegible]	3.[illegible]	2.1	.3	.[illegible]						[illegible].3	10.5
NNW	.	1.[illegible]	1.[illegible]	1.[illegible]								4.[illegible]	[illegible].8
VARBL													
CALM												.[illegible]	
	[illegible].	12.6	24.[illegible]	34.3	17.8	4.[illegible]	1.4					1[illegible].[illegible]	12.4

TOTAL NUMBER OF OBSERVATIONS 266

SMOS

2

NAVAL WEATHER SERVICE DETACHMENT ATSUGI, JAPAN

SURFACE WINDS

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

ATSUGI, JAPAN — STATION / STATION NAME

[illegible] — YEARS

MAY — MONTH

ALL WEATHER — CLASS

[illegible] — HOURS (L S T)

CONDITION

SPEED (KNTS) 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	.7	1.										2.9	4.3
NNE	.[illegible]	.7	.7									1.8	5.2
NE		.4										.4	6.0
ENE		.4	.[illegible]									.7	6.[illegible]
E		.7	.4	.7								1.[illegible]	9.[illegible]
ESE		.7	1.1	1.4		.4						3.6	10.7
SE		1.[illegible]	1.	1.1	1.1							5.4	10.7
SSE	1.4	.7	1.4	.4								4.0	6.1
S		1.4	2.7	1.1								5.[illegible]	8.7
SSW	1.[illegible]	2.2	2.2	.7								6.9	6.1
SW	.4	2.[illegible]	5.[illegible]	.7	.4							10.1	7.7
WSW	1.1	2.[illegible]	5.1	3.6	.4		.4					13.4	9.4
W	.7	2.9	5.1	8.3	3.6		.4					21.0	12.1
WNW	.7	1.[illegible]	2.2	4.7	2.2	.4						12.9	12.2
NW		1.1	1.4	2.2	.4							5.1	10.6
NNW	.1	.4	.7	1.1								3.3	7.0
VARBL													
CALM												2.2	
	.[illegible]	22.5	31.5	26.1	9.0	.7	.7					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 276

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION ____ STATION NAME ____ YEARS ____ MONTH ____

CLASS ALL WEATHER HOURS (L S T) 06

CONDITION ____

SPEED (KNTS) 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	.	.	.									1.3	5.
NNE		.										.3	6.
NE		.										.3	6.
ENE		.	.									.7	7.
E	.		1.		.							2.1	9.
ESE		.	.	.								1.7	9.
SE	1.	.	1.	1.4	.7							4.5	9.
SSE	1.	1.	.	.3								3.4	5.
S	2.	2.	1.4	.3								8.	4.
SSW	2.	7.2	3.									13.	5.
SW	2.	6.5	5.	1.	.7							15.	7.
WSW	.1	4.8	6.4	1.4	.3							14.	7.
W	.1	2.2	5.	1.	1.7							17.6	7.
WNW	1.	.	2.	2.1	.3							7.2	8.
NW	1.		.	1.								3.4	6.
NNW	.	.	.									1.	5.
VARBL													
CALM												3.1	
	20.3	32.1	31.	9.3	4.1							100.0	6.

TOTAL NUMBER OF OBSERVATIONS 23

SMOS

2

NAVAL WEATHER SERVICE DETACHMENT ANDREWS AFB

SURFACE WINDS

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

STATION [illegible] STATION NAME [illegible] YEARS MAR MONTH

ALL WEATHER CLASS 03 HOURS (L S T

CONDITION

SPEED (KNTS) 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	.7	.7										1.1	2.
NNE	.		.	.4								1.	7.
NE					.4							.5	20.0
ENE		.5		.4								.7	9.
E	.7	.7	1.1	.4								3.	7.
ESE	1.	.7	.6									2.	4.
SE	.5	1.1	1.	1.1	.4							4.4	7.
SSE	.6	1.	.7	.4								3.3	6.
S	1.	3.	.7									5.	4.
SSW	.7	5.	1.6	.4								8.5	5.
SW	1.	6.6	2.5	.4	.4							12.9	5.
WSW	1.	5.2	4.1	2.2	.4							13.3	7.
W	4.	5.2	7.4	2.6	1.5	.7	.7					22.9	8.
WNW	1.	1.5	3.5	1.5	.7							8.5	8.
NW	.5	1.5	1.1	.7								4.1	6.
NNW	.7	.5	.4									1.	5.
VARBL													
CALM												1.1	
	1.5	33.	25.1	10.7	3.7	.7	.7					100.0	6.

TOTAL NUMBER OF OBSERVATIONS 27

SMOS

10
2

NAVAL WEATHER SERVICE DETACHMENT ATSUGI, JAPAN

SURFACE WIND

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

STATION [illegible] STATION NAME [illegible] YEARS [illegible] MONTH MAY

CLASS ALL WEATHER HOURS (L S T) 05

CONDITION

SPEED (KNTS) 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	.											.4	3
NNE													
NE						.4						.4	24
ENE				.3								.3	13
E	.		.3	1.1	.7							2.2	12
ESE	.	1.1	.3	.7	.4							3.	7
SE	.	1.	.3	1.1								4.7	7
SSE	.	2.	.3									2.4	3
S	.1	1.	1.2	.4								4.3	5
SSW	1.	4.7	.									6.3	4
SW	.1	.1	1.4	.7								8.3	5
WSW	.	4.7	4.	1.4	1.1							13.3	7
W	.1	6.3	8.7	7.2	.7	.4						29.3	8
WNW	.	1.1	1.4	3.3	.7							6.	9
NW	.3	.	1.									2.	7
NNW	.1	1.1	.4	.4								2.3	5
VARBL													
CALM												6.3	
	2.3	30.4	22.1	16.7	3.6	.7						100.3	6

TOTAL NUMBER OF OBSERVATIONS 2

SMOS

SURFACE WIND

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

STATION _____ STATION NAME _____ YEARS _____ APR MONTH

ALL WEATHER CLASS 1[illegible] HOURS (L.S.T.)

CONDITION _____

SPEED (KNTS) 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.[illegible]	10
NNE		•	•	•								2.1	[illegible]
NE		•	1.[illegible]									1.[illegible]	8
ENE		•	2.1	•								3.[illegible]	8
E	•	•	6.1	5.[illegible]	•							12.[illegible]	10
ESE		1.	4.[illegible]	9.3	2.1	•						18.[illegible]	12
SE		•	•	3.[illegible]	•	•						[illegible].4	1[illegible]
SSE			•	•								•	11
S			•	1.1								1.4	13
SSW				•								•	11
SW		•		[illegible].1	•							3.[illegible]	14
WSW			1.[illegible]	2.1	[illegible].4	•	•					10.4	17
W		1.1	•	3.[illegible]	5.[illegible]	2.1	1.[illegible]					14.[illegible]	1[illegible]
WNW			•	[illegible].[illegible]	3.2	3.2						11.1	17
NW			1.[illegible]	5.7	1.1	•						6.9	14
NNW	•	•	1.1	1.4								3.[illegible]	1[illegible]
VARBL													
CALM												•	
	•	2.1	2[illegible].[illegible]	41.[illegible]	18.9	7.9	2.5					1[illegible].[illegible]	1[illegible]

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WIND

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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	.5	2.2	1.1									3.8	5
NNE	.	1.4	.4									2.2	5
NE		1.4	.4									1.8	5
ENE	.5	1.4	.4	.4	.4	.4						3.3	9
E	.5	4.	1.5	1.5								8.3	7
ESE	.4	2.	4.7	4.	1.4							13.4	10
SE		.5	2.5	4.3		.4						10.1	9
SSE		1.	.4									1.8	5
S	.5	.7	.7	1.1								2.9	9
SSW	.4	.4	.7									1.4	7
SW			1.1	.7	.4							2.2	12
WSW		.5	2.7	4.3	1.8							8.7	12
W		.5	3.3	6.5	1.8	.7	.7					14.1	13
WNW		.5	4.7	5.8	1.4	1.1						13.4	12
NW		1.1	1.	4.5	.4							7.6	10
NNW	.4	.4	2.5	.7								4.3	8
VARBL													
CALM												.4	
	.3	22.8	29.2	34.1	7.6	2.5	.7					100.2	10

TOTAL NUMBER OF OBSERVATIONS 2

10
2

SURFACE WINDS

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

STATION: [illegible] AT JAPAN STATION NAME: YEARS: MONTH: APR

CLASS: ALL WEATHER HOURS (L S T): 21

CONDITION:

SPEED (KNTS) 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	•											•	3.
NNE	•		•		•							2.4	6.
NE				•								•	12.
ENE	•											1.2	3.
E	•	1.1	•	1.6								4.6	7.
ESE	•	1.2	3.	•		•						6.1	8.
SE	•	2.4	4.	1.2								10.	6.
SSE	•	2.	•									3.7	5.
S	•	2.	•	1.6								4.	3.
SSW	•	1.7	1.	1.2								4.	7.
SW	•	2.7	2.3	1.6								6.4	7.
WSW	1.	2.	2.	3.7	2.	•						13.	10.
W	•	3.	5.	3.3	•	•						15.1	
WNW	•	2.4	2.4	2.	•	•						10.	10.
NW		•	1.	•								2.	8.
NNW	1.	1.	•	•								4.1	5.
VARBL													
CALM												4.	
	1 .	24.9	29.	1 .8	3.7	2.4						1 0.	7.

TOTAL NUMBER OF OBSERVATIONS 24

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS: ALL WEATHER | HOURS: ALL

CONDITION

SPEED (KNTS) 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	.	1.1	.	.4	.							2.	6.
NNE	.4	.5	.4	.2	.							1.	6.
NE	.	.	.	.2								1.	7.
ENE	.	.6	1.	.5	.2	.						2.	8.
E	.7	1.	2.6	1.8	.4	.2						7.	9.
ESE	.	1.7	3.3	4.	1.0	.4						10.7	11.
SE	.	2.0	2.2	1.	.4	.2	.					7.2	9.
SSE	.	1.4	.	.1								2.5	5.
S	.	1.	1.	1.1	.							5.1	7.
SSW	.	1.	2.	1.0	.2							5.1	7.
SW	.7	2.2	2.	1.5	.5		.2					7.7	8.
WSW	1.	1.	2.4	3.2	2.2	.5	.1					11.1	11.
W	1.	2.1	2.	4.	2.8	1.1	.4					14.4	12.
WNW	.	1.	2.1	3.4	1.9	1.						9.9	12.
NW	.	.	1.4	2.2	.5	.1						5.1	11.
NNW	.7	.5	1.	.7								3.	7.
VARBL													
CALM												2.7	
	.5	20.	26.7	26.1	10.1	3.	.7					100.0	9

TOTAL NUMBER OF OBSERVATIONS 21

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]	[illegible] A, JAPAN	73-82	MAY

ALL WEATHER
CLASS

00
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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	.	.	.6	.4								2.3	5.[illegible]
NNE	.2	1.[illegible]										2.[illegible]	3.[illegible]
NE	1.2	.										1.9	3.[illegible]
ENE	.[illegible]	.		.4								1.[illegible]	7.[illegible]
E	[illegible]	2.3	.	1.2	.4	.4						6.[illegible]	7.[illegible]
ESE	[illegible]	1.[illegible]	.[illegible]	2.3	.4							6.[illegible]	8.[illegible]
SE	.	2.[illegible]	2.3	.[illegible]	.4							6.[illegible]	7.[illegible]
SSE		.	1.[illegible]									1.[illegible]	7.[illegible]
S	1.	[illegible].1	.	.[illegible]								6.[illegible]	5.[illegible]
SSW	1.	[illegible].1	2.7	.6								6.1	6.
SW	.1	5.[illegible]	1.[illegible]	1.[illegible]								11.2	5.
WSW	[illegible].1	1.[illegible]	4.[illegible]	2.3								11.2	7.[illegible]
W	.1	4.[illegible]	2.[illegible]	2.[illegible]	.8							13.[illegible]	7.[illegible]
WNW	1.[illegible]	1.2	1.[illegible]	1.2								6.[illegible]	6.
NW	.[illegible]	1.2	.4									1.[illegible]	5.
NNW	1.[illegible]	1.[illegible]										3.[illegible]	3.
VARBL													
CALM												7.[illegible]	
	24.[illegible]	32.3	19.6	14.2	1.9	.4						100.0	6.

TOTAL NUMBER OF OBSERVATIONS 24

EMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WIND

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

[illegible] A, JAPAN | 72-[illegible] | MAY

STATION | STATION NAME | YEARS | MONTH

ALL WEATHER | 0[illegible]

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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.[illegible]	[illegible].3	1.2									5.0	4.
NNE	.4	1.2										1.6	4.
NE	1.[illegible]	.4										2.3	2.
ENE	.4	.	.[illegible]			.4						2.3	6.
E	1.2	.	.[illegible]		.4	.4						3.5	7.
ESE	.4	2.1	1.[illegible]	1.2								6.2	7.
SE	1.2	.	1.[illegible]	.8	.4							4.[illegible]	8.
SSE	.[illegible]	1.[illegible]	.4	.6								3.1	6.
S	2.1	1.[illegible]	.[illegible]	.8								6.5	5.
SSW	1.	3.8	5.	1.5								11.[illegible]	6.
SW	2.3	3.	[illegible].1	1.2								10.4	6.
WSW	2.[illegible]	1.2	2.[illegible]	.8	.4							7.7	7.
W	4.[illegible]	3.5	3.5	1.[illegible]	.4	.4						14.2	6.
WNW	.[illegible]	1.[illegible]	1.[illegible]	1.2								5.0	7.
NW	1.[illegible]	.4	.[illegible]	.8								3.[illegible]	6.
NNW	.4	1.[illegible]	.4	.4								3.5	5.
VARBL													
CALM												8.8	
	24.[illegible]	28.8	23.[illegible]	11.2	1.5	1.2						100.0	6.

TOTAL NUMBER OF OBSERVATIONS 26

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]	[illegible] JAPAN	73-82	MAY

CLASS: ALL WEATHER

HOURS (L S T): 04

CONDITION:

SPEED (KNTS) 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	[illegible]	[illegible]	[illegible]									[illegible]	3.1
NNE		[illegible]	[illegible]			[illegible]						1.9	10.2
NE		[illegible]										1.1	5.0
ENE	[illegible]	[illegible]	[illegible]									1.5	5.3
E	[illegible]	1.1	1.5	.4	[illegible]	.4						5.7	8.6
ESE	[illegible]	[illegible]	1.[illegible]	1.1								6.1	7.1
SE	[illegible]	1.[illegible]	1.5	1.								5.4	8.6
SSE	1.		[illegible]									2.3	3.9
S	[illegible]	[illegible]	[illegible]	[illegible]								8.8	6.4
SSW	[illegible]	[illegible]	[illegible]	.4	.4							9.2	7.0
SW	1.[illegible]	4.2	[illegible]	2.7	.4							12.5	7.7
WSW	1.[illegible]		1.[illegible]	1.1								4.6	7.4
W	[illegible]	[illegible]	1.[illegible]	2.3	1.1	.4						11.1	8.5
WNW	[illegible]	1.[illegible]	[illegible]	1.5		.4						6.5	9.1
NW	[illegible]	1.1	.4	.4								3.4	5.7
NNW	[illegible]	1.[illegible]	1.5	.4								4.2	6.2
VARBL													
CALM												11.1	
	[illegible]	[illegible]	[illegible]	13.0	2.7	1.5						[illegible]0.0	6.5

TOTAL NUMBER OF OBSERVATIONS 261

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE NC

SURFACE WINDS

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

[illegible] STATION | [illegible] A, JAPAN STATION NAME | 73-92 YEARS | MAY MONTH

ALL WEATHER CLASS | 09 HOURS (L S T)

CONDITION

SPEED (KNTS) 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		[illegible]	1.6	1.2			.4					6.5	9.1
NNE		.4										.4	4.0
NE		1.2	1.2	.4								2.8	7.4
ENE	.	1.2	.[illegible]	.4	.4							3.6	7.2
E	.4	4.[illegible]	1.2	.8	1.2	.8						8.5	9.9
ESE	.4	2.[illegible]	6.[illegible]	2.8	1.2							12.5	9.7
SE	.4	1.2	2.[illegible]	.8								4.4	8.1
SSE		1.6	1.2	.4								3.2	7.1
S	.[illegible]	1.2	1.6	.4								4.0	6.4
SSW		1.[illegible]	2.[illegible]	2.4								6.0	9.6
SW	.[illegible]	1.[illegible]	2.[illegible]	2.0								6.5	8.4
WSW	.4	2.4	.[illegible]	4.[illegible]	4.0							11.7	12.8
W		1.2	1.2	2.4	2.4	.4						7.7	14.1
WNW	.[illegible]	.8	1.2	3.2	2.8	.4						9.3	13.3
NW	.[illegible]	.[illegible]	4.[illegible]	2.8								8.1	10.0
NNW	.4	.[illegible]	2.4									3.6	7.0
VARBL													
CALM												1.2	
	[illegible].6	25.4	29.4	24.2	12.1	1.6	.8					100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 248

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

[illegible] 5	[illegible] A, JAPAN	72-82	MAY
STATION	STATION NAME	YEARS	MONTH

ALL WEATHER — CLASS

13 — HOURS (L S T)

CONDITION

SPEED (KNTS) 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			[illegible]	2.[illegible]			.4					6.0	12.5
NNE		.[illegible]	.[illegible]	.4								1.1	7.7
NE	.[illegible]	1.[illegible]	2.[illegible]	.7								[illegible].3	7.3
ENE	.[illegible]	.7	[illegible].[illegible]									3.9	6.8
E	.4	3.2	11.[illegible]	4.2	1.1	.4						21.1	9.5
ESE		1.4	5.6	6.7	2.1	.7						16.5	12.1
SE			1.[illegible]	2.5	.4							4.[illegible]	10.8
SSE			1.1									1.1	8.7
S			1.1	.7	.4							2.1	11.3
SSW		.[illegible]	1.4	.7								2.[illegible]	8.9
SW		.[illegible]	.[illegible]	1.4	.7							2.[illegible]	13.3
WSW		.[illegible]	1.1	2.1	2.5							6.0	15.1
W			.[illegible]	2.[illegible]	1.1	1.1						4.9	16.9
WNW		1.1	1.4	4.9	5.6	.7						13.7	15.2
NW	.[illegible]	.7	.[illegible]	3.5	.7							6.0	12.1
NNW		.4	1.1	1.1								2.[illegible]	10.1
VARBL													
CALM												.[illegible]	
	1.4	10.[illegible]	36.1	34.0	14.4	2.[illegible]	.4					100.0	11.7

TOTAL NUMBER OF OBSERVATIONS 265

BMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION [illegible] STATION NAME [illegible] A, [illegible] YEARS 73-82 MONTH MAY

CLASS ALL WEATHER HOURS (L S T) 15

CONDITION

SPEED (KNTS) 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	.7	.3		2.7			.3					3.8	13.0
NNE		.7	1.									1.7	7.2
NE		1.	.7									2.1	6.2
ENE		2.1	3.		.7							6.2	7.9
E		3.4	9.0	4.1	1.							18.5	9.6
ESE	.7	3.1	6.	4.5	2.1	.7						17.5	10.4
SE		.3	3.	4.5	1.4							9.9	12.0
SSE													
S			.7	.7								1.4	9.5
SSW		.	.7	.7								1.4	9.5
SW		.	1.	2.1	1.							4.5	13.2
WSW			1.	2.7	3.1							6.	15.6
W		.7	.3	3.4	2.1	.3						6.	14.7
WNW			.3	6.2	4.5	.3						11.3	15.8
NW		.7	.7	4.1	.7							5.	13.6
NNW			1.	1.4								2.4	10.7
VARBL													
CALM												.5	
	1.0	13.0	31.5	37.0	16.1	1.0	.3					100.0	11.8

TOTAL NUMBER OF OBSERVATIONS 292

5MOS

2

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH MAY

CLASS ALL WEATHER HOURS (L S T) 1

CONDITION _____

SPEED (KNTS) 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.[illegible]	.[illegible]	1.[illegible]									3.[illegible]	5.5
NNE	.	2.1	1.									4.1	4.[illegible]
NE	.[illegible]	2.1	.[illegible]	.[illegible]								4.1	6.3
ENE	.	1.[illegible]	1.	.3								3.[illegible]	6.[illegible]
E	.[illegible]	[illegible].[illegible]	4.[illegible]	2.1								13.1	7.4
ESE	.[illegible]	[illegible].[illegible]	[illegible].[illegible]	3.4	1.[illegible]	.[illegible]						16.5	8.8
SE	.[illegible]	2.[illegible]	[illegible].1	2.4	.3							[illegible].9	8.8
SSE	.[illegible]	1.[illegible]	1.									3.4	5.7
S			1.	.3								1.7	9.2
SSW			.	.[illegible]								1.[illegible]	11.3
SW	.		1.[illegible]	1.4	.7							3.[illegible]	11.3
WSW			1.[illegible]	2.7	.7							4.[illegible]	12.[illegible]
W	1.[illegible]	.[illegible]	2.1	5.5	.7							10.3	10.[illegible]
WNW		.[illegible]	1.4	[illegible].2	.7							[illegible].[illegible]	11.6
NW		.[illegible]	1.	4.5								6.[illegible]	10.6
NNW	1.	.[illegible]	1.[illegible]	1.7								[illegible].2	8.2
VARBL													
CALM												1.[illegible]	
	10.[illegible]	24.[illegible]	28.[illegible]	30.9	4.1	.[illegible]						1[illegible].[illegible]	9.6

TOTAL NUMBER OF OBSERVATIONS [illegible]91

SMOS

2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH MAY

CLASS ALL WEATHER HOURS (L.S.T.) 21

CONDITION _____

SPEED (KNTS) 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	.		.									1.1	4.3
NNE	.	.										.	3.5
NE	1.1	1.1	.									2.1	4.5
ENE	1.1	.	.	.4								2.	6.
E	1.1	1.	1.	1.								6.	7.6
ESE	.	3.1	1.1	.	1.							8.	7.7
SE		2.	2.	.8	.4	.4						6.	8.4
SSE	.	2.	1.									4.	5.2
S	1.	1.										3.1	3.6
SSW	1.1	3.1	1.		.4							6.	6.2
SW		1.	2.	1.	.4							6.5	8.6
WSW	.	2.3	3.	1.								8.	8.1
W	.	4.	4.	2.3								13.4	7.0
WNW	.	2.	2.3	1.								6.	7.7
NW	.	3.1	1.1	.								5.3	7.0
NNW	1.	.		.								3.1	4.9
VARBL													
CALM												12.6	
	1.6	32.1	24.4	12.2	2.	.4						1C.C	6.1

TOTAL NUMBER OF OBSERVATIONS 2?2

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH MAY

CLASS ALL WEATHER

CONDITION _____

HOURS (L S T) ALL

SPEED (KNTS) 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	1.7	.	1.1	.			.1					4.1	7.9
NNE	.4	.	.4	.		.						1.[illegible]	5.7
NE	.	1.[illegible]	.	.2								2.[illegible]	5.7
ENE	.	1.1	1.[illegible]	.2	.1	.						3.2	7.1
E	1.	2.	4.[illegible]	1.[illegible]	.6	.[illegible]						10.7	8.8
ESE	.	2.	[illegible].[illegible]	2.9	1.1	.2						11.5	9.6
SE	.	1.[illegible]	2.4	1.[illegible]	.4	.[illegible]						6.5	9.3
SSE	.[illegible]	1.	.	.1								2.[illegible]	6.0
S	.	1.[illegible]	1.[illegible]	.[illegible]	.							4.1	6.3
SSW	.[illegible]	2.	2.1	.[illegible]	.1							5.[illegible]	7.4
SW	1.1	2.	1.	1.[illegible]	.4							7.1	8.3
WSW	1.	.	2.1	2.[illegible]	1.[illegible]							7.5	10.6
W	1.	2.1	2.	3.[illegible]	1.1	.[illegible]						10.2	[illegible].[illegible]
WNW	.	1.2	1.[illegible]	3.2	1.9	.2						8.[illegible]	12.0
NW	.	1.	1.1	2.[illegible]	.2							5.[illegible]	[illegible].7
NNW	.	.[illegible]	1.	.[illegible]								3.[illegible]	6.8
VARBL													
CALM												5.1	
	12.[illegible]	27.[illegible]	27.[illegible]	22.6	7.1	1.[illegible]	.1					100.[illegible]	-.4

TOTAL NUMBER OF OBSERVATIONS 2159

SMOS

SURFACE WINDS

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

STATION [illegible] STATION NAME [illegible] YEARS [illegible] MONTH [illegible]

CLASS ALL WEATHER HOURS (L S T) [illegible]

CONDITION

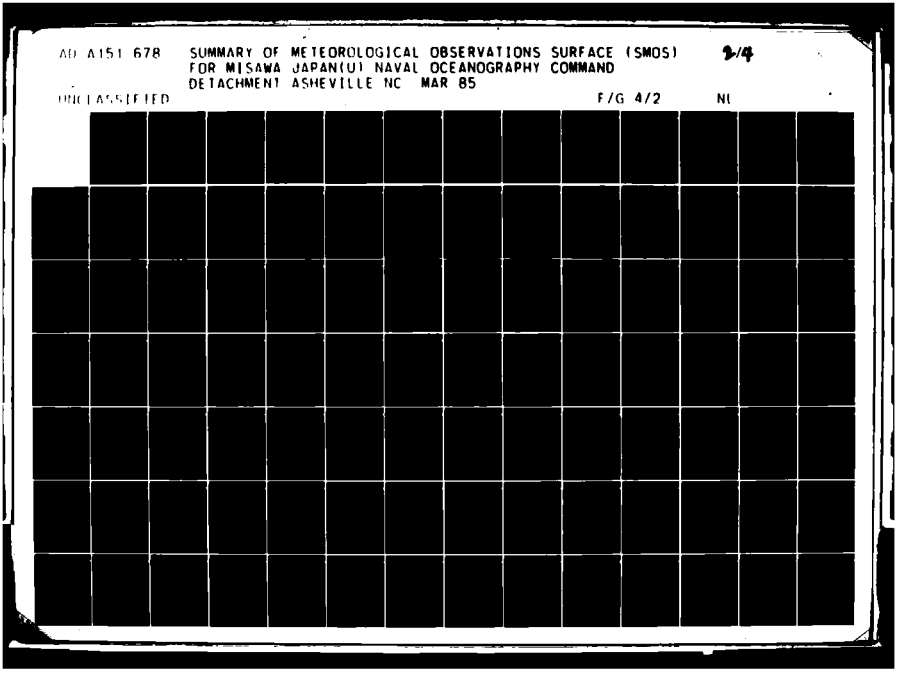
SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	[illegible]	[illegible]	[illegible]									[illegible]	[illegible]
NNE	[illegible]	[illegible]										[illegible]	[illegible]
NE		[illegible]										[illegible]	[illegible]
ENE	[illegible]											[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							[illegible]	[illegible]
ESE	[illegible]	[illegible]	[illegible]	[illegible]								14.1	6.6
SE	[illegible]	[illegible]	[illegible]	[illegible]								11.[illegible]	5.6
SSE	[illegible]	[illegible]	[illegible]									[illegible]	[illegible]
S	[illegible]	[illegible]	[illegible]									[illegible]	[illegible]
SSW	[illegible]	[illegible]	[illegible]									[illegible]	[illegible]
SW	[illegible]	[illegible]	[illegible]									[illegible]	[illegible]
WSW	[illegible]	[illegible]	[illegible]	[illegible]								[illegible]	[illegible]
W	[illegible]	[illegible]	[illegible]	[illegible]								[illegible]	[illegible]
WNW	[illegible]	[illegible]	[illegible]	[illegible]								[illegible]	[illegible]
NW	[illegible]		[illegible]	[illegible]								[illegible]	[illegible]
NNW	[illegible]	[illegible]										[illegible]	[illegible]
VARBL													
CALM												[illegible]	
	[illegible]	[illegible]	21.[illegible]	[illegible]	[illegible]							[illegible]	[illegible]

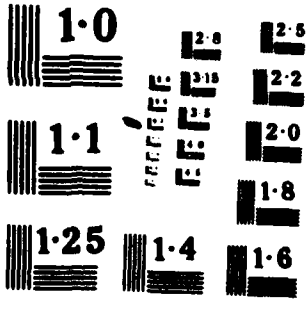
TOTAL NUMBER OF OBSERVATIONS

SMOS

AD A151 678 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 1/4
FOR MISAWA JAPAN(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC MAR 85

UNCLASSIFIED F/G 4/2 NL




1·0
1·1
1·25
1·4
1·6
1·8
2·0
2·2
2·5

FORM 2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible]	[illegible] A, JAPAN	77-82	JAN

CLASS: ALL WEATHER

HOURS (L S T): 03

CONDITION:

SPEED (KNTS) 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	2.4	.										3.2	2.5
NNE	1.2	1.2										2.4	3.7
NE	1.2	2.										3.2	3.9
ENE	2.	.8	.4									4.0	3.3
E	4.	4.	2.	1.2	.4							10.4	6.9
ESE	3.	5.5	4.	1.2	.4							15.5	6.3
SE	2.	5.6	2.8	.4								11.2	5.6
SSE	.2	1.	.4									3.2	4.3
S	.	.4	1.6	.4								3.2	6.8
SSW	1.	.8	1.2									3.6	4.6
SW	1.2	1.2	.									3.2	4.6
WSW	1.2	2.	.4	.8	.4							5.6	6.6
W	4.	2.	.									8.8	3.2
WNW	1.	2.	.	.4								4.8	5.3
NW	2.	1.	.8									4.4	3.7
NNW	.	.										1.6	3.3
VARBL													
CALM												12.0	
	31.	33.1	17.5	4.4	1.2							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 251

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION	STATION NAME	YEARS	MONTH
[illegible] S	MISAWA, JAPAN	73-82	JUN

CLASS: ALL WEATHER

CONDITION:

HOURS (L S T): 06

SPEED (KNTS) 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.[illegible]	1.2										2.7	3.1
NNE	1.[illegible]	1.2	1.2									4.3	4.4
NE	.4	1.8	1.2									3.1	5.5
ENE	1.[illegible]	1.8	.4									3.9	3.5
E	[illegible].3	2.7	1.9	1.9								8.9	6.8
ESE	[illegible].2	6.[illegible]	2.3	3.1	.4							16.6	6.4
SE	1.2	3.[illegible]	5.0	1.5								11.6	7.3
SSE	[illegible].3	1.5										3.9	3.1
S	[illegible].2	1.5	.7									3.5	4.7
SSW	1.[illegible]	1.[illegible]	1.2									4.2	5.0
SW	1.[illegible]	1.[illegible]	1.[illegible]	.4								5.4	5.4
WSW	[illegible].3	1.2	1.[illegible]	.8	.8							6.6	7.8
W	[illegible].2	1.[illegible]		.4								5.0	5.0
WNW	.[illegible]	.[illegible]	2.3	.8								4.6	7.6
NW	.3	1.5										3.9	3.5
NNW	.4	.[illegible]	.4									1.5	4.8
VARBL													
CALM												10.4	
	[illegible].8	31.7	19.7	9.3	1.2							100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 259

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

[redacted] / [redacted], JAPAN / 72-76 / JUN
STATION / STATION NAME / YEARS / MONTH

ALL WEATHER / 09
CLASS / HOURS (L S T)

CONDITION

SPEED (KNTS) 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		[illegible]	1.7	.4								4.6	6.9
NNE	.[illegible]	1.7	.4									2.5	4.5
NE	.[illegible]	[illegible]	1.3									5.5	5.6
ENE	.[illegible]	4.2	1.3	.[illegible]	.4							7.2	6.9
E	[illegible]	.[illegible]	4.[illegible]	2.1	.[illegible]							18.6	7.0
ESE		[illegible]	1.[illegible]	5.[illegible]								21.5	8.7
SE		[illegible]	[illegible]	2.1								9.7	8.7
SSE		.[illegible]										.[illegible]	4.0
S		.[illegible]		.4								.[illegible]	7.5
SSW			1.[illegible]									1.7	8.0
SW	1.[illegible]	1.[illegible]	1.[illegible]	2.1	1.3							7.6	9.9
WSW	.[illegible]	.[illegible]	.4	1.7	.8							4.2	11.5
W	.[illegible]	1.[illegible]	.4	.4								2.5	6.5
WNW		1.[illegible]	.4	2.5	.4							4.6	11.1
NW		1.[illegible]	1.3	.4	.4							3.[illegible]	8.4
NNW	.[illegible]	1.[illegible]			.4							3.[illegible]	5.9
VARBL													
CALM												1.[illegible]	
	[illegible].2	[illegible].1	31.2	1[illegible].6	4.6							1[illegible]0.0	7.9

TOTAL NUMBER OF OBSERVATIONS 237

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ATSUGI, JAPAN

SURFACE WINDS

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

[illegible] ATSUGI, JAPAN — 72-82 — JUN

STATION — STATION NAME — YEARS — MONTH

ALL WEATHER — 12

CLASS — HOURS (L S T)

CONDITION

SPEED (KNTS) 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	.7		.7	.4								1.5	6.2
NNE		.7	.4	.4								1.5	.3
NE		1.1	2.2	.4								4.0	7.3
ENE	.7	3.0	4.8	1.5		.4						11.0	7.9
E	.7	3.0	1.1	4.4	.4							10.5	6.2
ESE	.4	2.2	2.6	8.5	1.1							21.7	10.4
SE		.4	3.7	3.7	.7							10.7	9.8
SSE			.4	.4								.7	11.0
S		.4		.7								1.1	9.3
SSW			.4									.4	6.0
SW	.4	.7		1.5	.4							2.9	10.1
WSW			.4	3.3	1.1	.4						5.5	14.8
W	.4			1.1	1.1							2.6	14.9
WNW			.4	1.5	.4							2.6	12.9
NW			.4	.4	.4							1.5	13.3
NNW		.4	.4									.7	6.0
VARBL													
CALM												.4	
	2.2	10.5	42.3	29.3	5.5	.7						100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 272

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

[illegible] / STATION — [illegible] N A, JAPAN / STATION NAME — 73-82 / YEARS — JUN / MONTH

ALL WEATHER / CLASS — 15 / HOURS (L S T)

CONDITION

SPEED (KNTS) 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		.7	1.4	.7								2.8	8.6
NNE		.4	1.1	.4	.4							2.1	10.0
NE	.4	1.1	1.1									2.6	6.3
ENE		1.4	2.5	.4								5.2	7.4
E	1.1	5.7	19.2	4.3	.4							30.6	8.2
ESE	1.1	3.7	13.2	12.1		.4						30.6	9.9
SE		.4	2.2	5.2	.4							8.9	11.6
SSE		.4										.4	6.0
S	.4	.4		.4								1.1	5.7
SSW			.4									.4	9.0
SW			.4	.4	.4							1.1	12.7
WSW		.4	.4	3.2	.4	.4						4.6	14.2
W		.7	.7	1.1	1.1							3.6	11.9
WNW			.4	2.1		.4						2.8	14.6
NW		.7		.7								1.4	13.0
NNW		.4	.4	.7								1.4	13.0
VARBL													
CALM												.7	
	.4	14.4	44.0	31.3	2.8	1.1						100.0	9.6

TOTAL NUMBER OF OBSERVATIONS 281

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

ALL WEATHER | 1?
CLASS | HOURS (L S T

CONDITION

SPEED (KNTS) 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.	.?	.4								2.?	5.9
NNE	.?	1.1	.?									1.?	?.6
NE	1.	1.?		.?								?.3	5.3
ENE	1.1	2.	1.?									?.?	5.4
E	?.4	?.?	1?.?	2.2								?6.7	6.4
ESE	1.1	.?	11.	?.5								2?.4	8.0
SE	.?	?.4	4.?	?.7								12.5	?.4
SSE	.?	1.?	.?									2.2	4.7
S			.?									.4	?.?
SSW			.?									.4	7.?
SW	.4		1.1	.7	.7							2.?	11.4
WSW		.4	.4	1.?		.4						2.?	13.8
W			.?	1.1								1.?	12.0
WNW		.?	1.?	1.?								4.?	?.5
NW		.?	1.1	.4								2.2	?.7
NNW	.?	.4	1.?	.4								2.5	3.7
VARBL													
CALM												2.2	
	1?.	33.?	34.?	17.?	.7	.4						1?0.?	?.5

TOTAL NUMBER OF OBSERVATIONS 273

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH JUN

CLASS ALL WEATHER HOURS (L S T) 21

CONDITION _____

SPEED (KNTS) 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	[illegible]	1.1	[illegible]									4.[illegible]	3.8
NNE	[illegible]	1.1										1.[illegible]	3.[illegible]
NE	[illegible]	1.1										3.[illegible]	3.2
ENE	1.[illegible]	1.1										3.1	2.9
E	[illegible]	2.[illegible]	4.2	1.5								12.[illegible]	6.5
ESE	4.[illegible]	6.[illegible]	3.[illegible]	4.2								19.1	5.6
SE	.3	.1	4.[illegible]	2.7								15.6	6.8
SSE	1.[illegible]	2.[illegible]	[illegible]	.4								5.[illegible]	4.8
S	1.[illegible]	2.[illegible]	[illegible]									5.[illegible]	4.2
SSW		[illegible]	[illegible]									[illegible]	4.5
SW	[illegible]	[illegible]	1.[illegible]	.4								[illegible].1	[illegible].4
WSW	[illegible]	1.[illegible]	[illegible]	1.1	.4							[illegible].[illegible]	[illegible].5
W	1.1	[illegible]	[illegible]	.4								[illegible].4	[illegible].1
WNW		[illegible]	1.[illegible]	.8								[illegible].1	[illegible].5
NW	[illegible].1	1.[illegible]	[illegible]	.4								[illegible].[illegible]	5.5
NNW	1.[illegible]	.4										1.[illegible]	3.0
VARBL													
CALM												[illegible].[illegible]	
	[illegible].1	3[illegible].	2[illegible].[illegible]	12.2	.4							100.[illegible]	5.4

TOTAL NUMBER OF OBSERVATIONS 262

SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS 72-2 MONTH J

CLASS ALL WEATHER HOURS (L S T) ALL

CONDITION _____

SPEED (KNTS) 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	.2	1.1	.7	.2								2.3	5.1
NNE	.7	1.1	.4	.1	.							2.4	5.3
NE	.	1.7	.7	.1								2.3	5.3
ENE	1.2	2.	1.7	.3	.7	.7						5.1	5.9
E	7.	5.7	3.2	2.6	.3							18.8	7.3
ESE	.2	5.4	7.9	3.3	.2	.						20.2	6.2
SE	1.2	3.7	2.7	2.5	.1							11.4	7.8
SSE	.7	1.1	.6	.1								2.7	4.5
S	.7	1.1	.7	.2								2.6	5.5
SSW	.	.	.5									1.3	5.6
SW	.	1.1	1.1	.7	.3							4.1	7.5
WSW	.	1.	.7	1.7	.5	.1						4.7	10.5
W	1.7	1.1	.5	.7	.7							4.4	6.5
WNW	.	.7	1.2	1.4	.1	.						3.5	9.0
NW	.	1.	.7	.3	.1							2.3	6.5
NNW	.1	.5	.7	.1	.							1.	5.7
VARBL													
CALM												6.1	
	17.2	29.7	20.3	15.4	2.1	.3						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 2280

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH JUL

CLASS ALL WEATHER HOURS (L S T 05

CONDITION _____

SPEED (KNTS) 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	[illegible]	.4	.4									2.[illegible]	3.3
NNE	.1	1.1										2.2	3.[illegible]
NE	.[illegible]	.[illegible]										1.[illegible]	3.3
ENE	1.1	1.	.4									3.[illegible]	4.6
E	[illegible]	4.4	.[illegible]	1.1								1[illegible].1	4.3
ESE	.[illegible]	4.	4.	2.[illegible]								12.[illegible]	6.9
SE	[illegible]	4.4	2.[illegible]	.[illegible]								10.2	5.4
SSE	.[illegible]	2.[illegible]	.[illegible]									5.[illegible]	[illegible].8
S	.	2.[illegible]	.4									5.5	3.9
SSW	1.1	2.	.4									4.4	4.6
SW	1.	2.2	1.									5.5	5.4
WSW	.[illegible]	1.		[illegible].[illegible]								7.[illegible]	5.9
W	.[illegible]	1.1	.[illegible]	.4	.4							5.[illegible]	4.3
WNW	1.											1.	1.5
NW		.										.[illegible]	4.[illegible]
NNW													
VARBL													
CALM												1[illegible].1	
	3[illegible].	2.[illegible]	11.7	[illegible].6	.4							1[illegible].[illegible]	4.1

TOTAL NUMBER OF OBSERVATIONS [illegible]74

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

ALL [illegible] TIME
CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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.	.										2.3	3.2
NNE	1.	1.1										2.	3.3
NE	.1	1.1										.9	3.7
ENE	.7	.	.									1.4	7.7
E	.	3.	1.	1.1								9.	5.6
ESE	.4	5.4	.	.9								14.	5.3
SE	1.	3.	.3	.5								.9	6.
SSE	.7	1.1										1.8	2.6
S	.	2.3	1.	.4								3.7	5.1
SSW	1.	2.7	.4									4.	4.3
SW	1.1	3.	.	.6								5.	5.8
WSW	.4	1.1	.4	.7								5.7	4.5
W	4.	1.	.1									6.	3.4
WNW	.1	1.1										2.3	4.2
NW	1.	.5										2.3	3.7
NNW	.	.4										.	3.5
VARBL													
CALM												15.7	
	37.	37.2	12.3	.1								100.	4.1

TOTAL NUMBER OF OBSERVATIONS [illegible]1

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS L S T

CONDITION

SPEED (KNTS) 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		1.1										3.7	3.1
NNE													2.5
NE													2.5
ENE													3.9
E				1.1								10.3	5.9
ESE				2.2								16.3	7.2
SE			1.1	1.1									6.8
SSE													3.5
S													4.9
SSW													5.1
SW													4.3
WSW													3.3
W													3.3
WNW													3.3
NW													2.3
NNW													3.6
VARBL													
CALM												13.3	

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NUMBER | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS L S T

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS L S T

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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.											
NNE		1.										1.	
NE													
ENE													
E													
ESE	1.				1.							23.	
SE	1.												
SSE			1.										
S													
SSW			1.									2.	
SW			1.										
WSW													11.
W	1.	1.											
WNW													
NW			1.									3.	
NNW			1.									1.	
VARBL													
CALM													
		3.	3.	11.	2.							100.	

TOTAL NUMBER OF OBSERVATIONS 223

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

ALL WEATHER
CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) 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.	•							2.4	10.3
NNE	•		•	•	•							1.7	10.6
NE		•	1.	1.								4.6	7.7
ENE		•	2.									5.	6.9
E	•	•	1.	5.	1.							24.4	9.2
ESE		•	12.	9.	1.							26.	10.0
SE		1.	4.5	3.4	•							9.	9.5
SSE			•									1.	9.
S		•	1.									1.4	9.6
SSW	•	•	•	•								1.	9.
SW			•	1.								1.4	12.0
WSW		•	2.1	2.1				•				4.	12.1
W	•	1.	•	•								2.	9.
WNW	•		1.	1.								4.	11.3
NW	•	•	2.	3.1								5.	9.6
NNW		•	1.	•								2.1	9.
VARBL													
CALM												•	
	2.	25.	44.3	29.9	3.4			.3				100.	9.5

TOTAL NUMBER OF OBSERVATIONS 291

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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	.7	.7	1.	1.								3.1	7.9
NNE	.7	2.4	1.									4.2	5.6
NE		1.	1.7	1.								4.2	7.9
ENE	.	1.	.7	.7								3.1	7.5
E	.7	3.	12.4	5.1	1.							24.2	8.4
ESE		3.	2.7	3.7	.7	.7		.7				10.8	10.9
SE			.7	2.1	1.							6.	11.6
SSE		1.	1.	.7								3.	7.6
S		.7	.7	1.								1.7	9.8
SSW		.7	1.	.7								2.1	8.5
SW		.7	1.4	.7								2.1	7.2
WSW		.7	1.	2.8								4.2	11.7
W	.7	.7	.7	2.4	.7							4.9	10.9
WNW			.7	.7	.7							3.	10.4
NW		.7	.7	1.	.7							2.8	11.5
NNW		1.	2.1	1.								4.9	8.4
VARBL													
CALM												.	
	2.	22.	45.	37.2	7.6	.7		.3				100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 289

SURFACE WINDS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE NC

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

STATION [illegible], JAPAN STATION NAME [illegible] YEARS [illegible] MONTH

ALL WEATHER CLASS [illegible] HOURS (L S T)

CONDITION

SPEED (KNTS) 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.[illegible]									2.[illegible]	5.9
NNE	•	•	•									1.[illegible]	6.8
NE		1.	•									2.[illegible]	5.2
ENE	•	3.[illegible]	•	•								8.1	4.8
E	1.	3.[illegible]	3.[illegible]	3.[illegible]	.4							12.1	5.2
ESE	•	4.4	5.6	4.[illegible]	.9	.4	.4					17.7	9.2
SE		2.[illegible]	3.[illegible]	2.[illegible]	.4							8.5	9.0
SSE	•	•	•	.4								2.4	5.3
S	.2	2.	1.[illegible]	.4								3.2	6.0
SSW		[illegible]	3.[illegible]									3.6	7.3
SW	•	1.[illegible]	3.[illegible]	.8								6.[illegible]	7.1
WSW	•	1.[illegible]	2.	2.[illegible]	.8							6.[illegible]	9.9
W	2.[illegible]	2.4	1.2	1.2	.4							9.9	6.5
WNW		[illegible]	2.[illegible]	•								[illegible]	7.8
NW	1.		2.[illegible]									4.4	6.3
NNW		1.2										1.2	4.7
VARBL													
CALM												2.[illegible]	
	11.[illegible]	30.[illegible]	33.[illegible]	15.7	2.8	.4	.4					100.1	7.4

TOTAL NUMBER OF OBSERVATIONS 24[illegible]

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

[illegible] / [illegible], JAPAN / [illegible] / AUG
STATION / STATION NAME / YEARS / MONTH

ALL WEATHER / 24
CLASS / HOURS (LST)

CONDITION

SPEED (KNTS) 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.	.?									?.?	4.5
NNE	?.			.?								2.?	3.5
NE	1.	.?										1.?	3.6
ENE		.?	.?									1.4	5.8
E	1.4	1.?	1.?	1.?								5.5	7.?
ESE	.	?.	?.	2.?	1.4	.?						10.6	?.3
SE	?.?	4.1	?.	.?								9.2	5.9
SSE	.?	2.?		.?								5.?	4.1
S	?.?	?.	?.	.?								7.?	5.1
SSW	1.?	4.4	1.4									7.?	4.6
SW	4.1	4.4	1.4									9.9	4.?
WSW	.4	?.?	1.?	1.?	.3							11.?	5.7
W	4.4	4.1	.?									9.?	3.?
WNW	1.?	.?	.?	.?								?.4	5.?
NW	1.?	.?	.?									?.?	5.2
NNW	.	1.										1.4	3.?
VARBL													
CALM												7.?	
	?3.1	33.?	1?.4	?.2	1.?	.?						1 0.?	5.0

TOTAL NUMBER OF OBSERVATIONS ???

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

ALL WEATHER
CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS 276

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

ALL WEATHER
CLASS

00
HOURS (L S T

CONDITION

SPEED (KNTS) 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	.[illegible]											.7	[illegible].5
NNE	.4											.4	2.0
NE	.[illegible]		.[illegible]									.7	6.5
ENE	.[illegible]	.7	.[illegible]									1.[illegible]	4.3
E	3.7	1.[illegible]	1.1	1.[illegible]	.4							8.6	6.1
ESE	[illegible].[illegible]	[illegible].[illegible]	[illegible].7	[illegible].[illegible]	.4							12.7	7.6
SE	[illegible].2	2.[illegible]	[illegible].2	1.1								11.2	7.1
SSE	.2	.[illegible]	1.1									4.1	4.2
S	1.[illegible]	1.[illegible]	1.[illegible]									5.2	4.8
SSW	[illegible].[illegible]	4.1	2.[illegible]	.4								9.[illegible]	5.5
SW	1.[illegible]	[illegible].4	1.1	.4								6.4	5.4
WSW	[illegible].4	4.1	1.[illegible]	.7								9.7	[illegible].2
W	[illegible].[illegible]	[illegible].[illegible]	.[illegible]	.4	.4							12.0	4.1
WNW	1.1	1.1	.4									2.[illegible]	4.1
NW		.[illegible]	.[illegible]		.4							1.5	[illegible].5
NNW	.[illegible]											.4	2.0
VARBL													
CALM												12.4	
	31.1	27.3	20.2	7.[illegible]	1.5							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 267

SMOS

10
2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION | STATION NAME | YEARS | JUL (MONTH)

ALL YEARS (CLASS) | ALL (HOURS (LST))

CONDITION

SPEED (KNTS) 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.	1.	.	.2								3.1	4.6
NNE	.	1.1	.4									2.4	4.2
NE	1.	1.2	.	.3								3.3	4.9
ENE	1.	2.2	1.2	.1								5.1	5.1
E	1.	6.	7.	2.4	.1							21.0	6.6
ESE	1.2	4.2	7.2	5.1	.6							20.1	8.6
SE	1.	3.4	2.2	1.4	.1							8.9	7.1
SSE	1.	1.2	.2	.								3.	4.0
S	1.	1.1	1.2	.1								3.9	5.1
SSW	.	1.2	.	.1								3.2	5.5
SW	.	1.	1.1	.2								4.3	6.2
WSW	1.	1.	.2	1.2	.1							4.7	7.6
W	.3	.	.	.2	.1							4.1	4.9
WNW	.	.	.4	.4		.						2.1	6.7
NW	.	.	.	.								1.1	5.5
NNW	.	.	.	.								1.2	5.7
VARBL													
CALM												7.2	
	21.4	30.	26.4	12.3	1.2	.2						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 2178

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

[illegible] A, JAPAN — STATION NAME

73-82 — YEARS

JUL — MONTH

ALL WEATHER — CLASS

21 — HOURS (L S T)

CONDITION

SPEED (KNTS) 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	.[illegible]	.4										2.6	2.9
NNE	1.[illegible]	1.1										3.[illegible]	3.3
NE	.[illegible]	.[illegible]										1.[illegible]	3.8
ENE	.4	.[illegible]										4.1	2.5
E	1.4	7.1	3.[illegible]	.7								22.[illegible]	4.5
ESE	[illegible].2	4.5	6.[illegible]	[illegible].4								16.0	7.6
SE	1.1	3.[illegible]	[illegible].[illegible]	.7								8.6	6.3
SSE	[illegible].1	3.[illegible]	.[illegible]									7.5	4.0
S	[illegible].[illegible]	.7	.[illegible]									4.1	2.8
SSW	1.1	1.[illegible]	.[illegible]									3.7	5.0
SW	.[illegible]	1.[illegible]	1.1	.7								3.7	6.8
WSW	1.1	1.1		.4								2.6	5.6
W	1.1	1.[illegible]	.4	.7								4.1	6.3
WNW	[illegible].1	1.[illegible]										2.[illegible]	3.6
NW	1.[illegible]	.4										1.[illegible]	2.0
NNW	.7	.7										1.[illegible]	3.3
VARBL													
CALM												10.4	
	[illegible].[illegible]	31.0	15.[illegible]	6.7								100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 268

SMOS

10
2

NAVAL WEATHER SERVICE DETACHMENT

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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.	1.	.									3.4	4.7
NNE	1.	1.4	.5									3.	4.5
NE	.	2.	.7									4.1	4.7
ENE	.1	2.	1.									6.	4.8
E	.2	1.7	5.	1.7								33.4	5.7
ESE	.7	.7	11.	.7	.7							26.	8.4
SE	1.	6.	7.4	2.1								13.4	6.8
SSE	1.	2.	.5									4.1	4.5
S		.	.									1.	6.7
SSW		.		.7								.7	9.0
SW			.	.7								.7	11.
WSW	.	.7	1.7	1.4								3.	9.5
W		.	.7									.7	6.5
WNW			.	.7								1.3	12.7
NW		.	1.									1.4	7.0
NNW	.	.7	.7	.3								1.4	7.3
VARBL													
CALM												2.1	
	1.5	41.7	28.3	13.1	.3							1 0.0	6.5

TOTAL NUMBER OF OBSERVATIONS 29C

SMOS

2

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH JUL

CLASS ALL WEATHER HOURS (L S T) 1F

CONDITION _____

SPEED (KNTS) 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		.7	1.0	1.4								3.1	9.7
NNE	.7	.7	1.0									2.1	5.6
NE	.7	2.1	2.4									5.2	5.9
ENE		2.1	3.1									5.2	6.5
E	1.0	6.2	19.4	5.9	.3							33.2	8.3
ESE		4.5	14.4	7.7	2.8							26.3	10.5
SE	.7	3.4	4.2	1.3	.3							9.3	8.3
SSE		.7		.3								1.0	5.0
S		.7	1.0									1.7	7.2
SSW		1.0										1.0	5.3
SW		.7		1.0								1.4	11.3
WSW				2.4								2.4	13.5
W			1.0	.3	.3							1.7	11.6
WNW			.7	1.4								2.1	11.8
NW													
NNW		1.0	1.0									2.1	6.7
VARBL													
CALM												.3	
	3.4	24.2	46.2	22.8	3.8							100.6	8.8

TOTAL NUMBER OF OBSERVATIONS 289

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE NC

SURFACE WINDS

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

STATION [illegible], JAPAN STATION NAME [illegible] YEARS JUL MONTH

ALL WEATHER CLASS 1? HOURS (L.S.T.

CONDITION

SPEED (KNTS) 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	•	2.?	1.?									4.1	6.6
NNE		1.0	•									1.?	6.3
NE	•	1.0	?.1	•?								3.?	6.?
ENE		•.?	2.?	•?								7.6	6.8
E	•	11.?	1 .??	4.?	•?							35.4	?.1
ESE		?.?	11.0	?.?	1.?							??.?	10.2
SE	•?	1.0	?.?	?.4	•7							?.?	10.4
SSE		•?										•?	5.0
S			1.0									1.4	?.?
SSW		1.0	•	•?								2.1	?.?
SW		•0	1.0	•?								2.?	?.0
WSW			1.0	?.4	•7							4.?	12.?
W	•?	•?		•?	•3							2.1	?.?
WNW			•	•?								•?	11.0
NW				1.?								1.4	13.0
NNW	•	•?	1.0									1.?	?.6
VARBL													
CALM												•	
	2.?	??.8	44.?	?1.0	4.1							100.0	8.?

TOTAL NUMBER OF OBSERVATIONS ???1

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS ALL WEATHER HOURS LST

CONDITION _____

SPEED (KNTS) 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.	
NNE	1.1	.										1.	2.
NE	.			.			.					1.1	14.3
ENE	.	.	.		.							1.	.
E	.	.	.	1.9	.							4.1	11.5
ESE	.	.	2.	1.1	.							4.	9.
SE	.	2.	2.	1.1	.							7.	7.
SSE	.	3.	1.1									7.	4.
S	.1	4.	1.									6.	4.2
SSW	.	.	1.	.								3.	5.3
SW	.	.	.	.								13.	5.4
WSW	.1	7.4	3.									14.4	5.
W	.	4.1	.	.								13.	5.
WNW	.	2.	1.1	.								4.	6.
NW		.	.	.								2.	.
NNW													
VARBL													
CALM												.	
	.	40.4	13.3	7.	1.9		.4					100.	5.

TOTAL NUMBER OF OBSERVATIONS

SMOS

2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS L S T

CONDITION _____

SPEED (KNTS) 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	•	1.1		.4								1.5	5.2
NNE		•	•									•	7.5
NE	•											.4	7.5
ENE				•								•	13.5
E	•	•	1.1	2.2	.4	.4						5.6	1 .7
ESE	•	1.1	.4	2.2	.4							5.	1 .1
SE	•	1.5	1.	.4								4.4	6.3
SSE	1.	2.	.4									4.	4.5
S	1.1	4.1	.4									5.6	4.7
SSW	2.	3.8	4.4									10.4	5.5
SW	.2	5.6	5.2									15.	5.1
WSW	2.2	1.4	1.	.7								12.2	5.4
W	.5	5.2	.4	.4		.4						14.8	4.3
WNW	1.	1.1	1.1	1.1	.4							5.6	7.5
NW	.5	1.5	1.1	.4								3.7	5.7
NNW		.5	.4									.7	7.5
VARBL													
CALM												7.4	
	21.7	36.7	19.5	9.9	1.1	.7						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 270

SMOS

10
2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME T A, JAPAN YEARS 73-8 MONTH SEP

CLASS ALL WEATHE HOURS (L S T 06

CONDITION _____

SPEED (KNTS) 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		•	•									1.1	7.0
NNE	•											•	2.5
NE		•			•							•	12.5
ENE		•	•	•	•							1.	12.0
E		1.1	1.	1.	•							5.	10.1
ESE		1.1	•	1.	•							3.	10.7
SE	..	1.4	1.4	1.1	•							6.	7.2
SSE	1.	1.	•									4.3	4.3
S	.	1.	1.									7.5	4.6
SSW	1.	1 .4	3.	•								16.4	5.6
SW	1.4	•	4.									14.3	5.9
WSW	•	6.1	1.	•								12.	4.5
W	.1	4.3	2.	•								13.	4.9
WNW	•	1.	•									2.	4.3
NW	•	•	1.4	•								3.	6.9
NNW	•											•	2.
VARBL													
CALM												5.	
	24.6	3 .6	21.	6.	2.1							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 2P

SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS 72-[illegible] MONTH SEP

CLASS ALL WEATHER HOURS (L S T) 05

CONDITION _____

SPEED (KNTS) 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	.[illegible]	.	1.[illegible]	.4								2.[illegible]	7.7
NNE	.[illegible]	.4	.	.4								2.[illegible]	7.2
NE	.	.	.[illegible]	.4								2.4	6.4
ENE	.4	.[illegible]	.[illegible]									1.5	5.[illegible]
E	.4	1.2	2.4	1.2	.4							5.7	9.4
ESE	.4	1.2	.[illegible]	[illegible].3								5.[illegible]	10.1
SE	.[illegible]	[illegible].7	2.[illegible]	2.[illegible]								9.[illegible]	8.[illegible]
SSE	.	2.[illegible]	2.[illegible]									4.[illegible]	5.7
S	1.2	.8	2.4									[illegible].9	5.7
SSW	.[illegible]	2.[illegible]	[illegible].7									[illegible].1	5.[illegible]
SW	1.2	5.[illegible]	2.	1.2	.4							10.[illegible]	6.3
WSW	2.[illegible]	4.1	1.[illegible]	.8								[illegible].9	5.[illegible]
W	.	[illegible].7	2.[illegible]	1.2	.4	.4						10.2	7.6
WNW	1.2	1.2	2.4	2.[illegible]	.4							[illegible].1	[illegible].9
NW		1.[illegible]	1.[illegible]	1.6								4.[illegible]	[illegible].3
NNW	1.2	.4	1.2									2.[illegible]	4.7
VARBL													
CALM												2.4	
	1[illegible].[illegible]	35.[illegible]	2[illegible].9	17.1	1.6	.4						1[illegible].[illegible]	7.[illegible]

TOTAL NUMBER OF OBSERVATIONS 246

SMOS

SURFACE WINDS

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

[illegible] A, JAPAN — [illegible]-[illegible] — SEP

STATION — STATION NAME — YEARS — MONTH

ALL WEATHER — 13

CLASS — HOURS (L S T)

CONDITION

SPEED (KNTS) 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	.	1.1	.	.								5.6	7.5
NNE	.		.									1.1	7.0
NE		.	1.5	.4								4.1	6.8
ENE	.	2.1	2.6	1.5								7.5	7.8
E	.	5.1	7.4	3.3								16.7	7.8
ESE	.	1.1	5.6	6.7	1.1							14.5	11.1
SE	.4	1.	3.4	3.3	.7							10.7	11.0
SSE	.	.	1.5									2.6	6.6
S		.	3.									4.4	7.1
SSW		1.	1.8									3.3	6.4
SW		3.1	1.	.4								5.3	5.0
WSW	.4	1.	.	1.1	.4	.4						4.3	9.7
W	.	.7	.	2.2	.7	.4						4.5	12.5
WNW	.	1.1	1.	3.3	1.5							7.8	11.5
NW		.	2.	1.1								4.4	9.3
NNW	.	1.1	1.	1.								5.5	8.2
VARBL													
CALM												.	
	.2	20.2	34.7	27.4	4.5	.7						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 273

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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	.[illegible]	1.[illegible]	[illegible]									4.[illegible]	7.3
NNE	.[illegible]	.[illegible]	.[illegible]									1.[illegible]	5.4
NE	.[illegible]	1.[illegible]	1.1									3.[illegible]	5.7
ENE		1.1	3.[illegible]	.4								4.[illegible]	7.9
E	.[illegible]	2.[illegible]	6.1	2.[illegible]	.7							14.[illegible]	9.3
ESE	.[illegible]	[illegible].[illegible]	11.[illegible]	7.[illegible]	.4							24.6	[illegible].1
SE		1.[illegible]	3.[illegible]	6.3	.4							11.[illegible]	11.4
SSE	.[illegible]	1.1	1.[illegible]	.[illegible]								3.[illegible]	7.5
S	.[illegible]	1.1	.4	.4								2.1	6.5
SSW	.[illegible]	.[illegible]	1.[illegible]									2.[illegible]	6.3
SW	.[illegible]	1.[illegible]	.4			.[illegible]						2.5	[illegible].[illegible]
WSW			1.[illegible]	1.4								[illegible].[illegible]	10.6
W	.[illegible]	.[illegible]	.[illegible]	1.4	.4	.4	.4					[illegible].[illegible]	13.3
WNW		.[illegible]	.[illegible]	[illegible].[illegible]	1.4							[illegible].[illegible]	13.3
NW		.[illegible]	1.[illegible]	4.[illegible]								[illegible].[illegible]	11.3
NNW			1.[illegible]	.[illegible]								2.1	10.0
VARBL													
CALM												.[illegible]	
	[illegible].[illegible]	1.[illegible]	41.1	3[illegible].[illegible]	3.2	.[illegible]	.4					1[illegible].0	[illegible].6

TOTAL NUMBER OF OBSERVATIONS [illegible]295

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS 77-8 MONTH SEP

CLASS ALL WEATHER HOURS L S T 1?

CONDITION _____

SPEED (KNTS) 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.?	1.4										2.?	?.?
NNE	.?	.?	.?									1.?	?.?
NE		.?	.?									.?	?.5
ENE	.?	.?	.?									1.7	4.?
E	.?	4.?	1.4	1.4	1.							11.?	6.?
ESE	.1	.?	.?	1.7								17.2	6.9
SE	.?	.1	.?	2.?	.?							13.4	8.2
SSE	.4	.?	.1									11.4	5.3
S	.?	4.1	.?	.?								6.?	?.?
SSW	.?	.?		.?								?.?	?.4
SW	.?		.?									1.?	?.?
WSW	.?	1.?	1.?		.?							?.?	6.5
W	.?	.?	.?	1.?	.?	.?						10.?	?.1
WNW	.?	.?	1.?	2.?								7.?	7.7
NW	.?	1.4	1.?									?.?	5.?
NNW		1.?	.?									1.?	?.6
VARBL													
CALM												3.4	
	1.?	41.4	2?.?	1?.7	?.1	.?						1??.?	?.4

TOTAL NUMBER OF OBSERVATIONS ____?__

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS 77-81 MONTH SEP

CLASS ALL WEATHER HOURS (L.S.T.) 01

CONDITION _____

SPEED (KNTS) 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													
NNE	.2			.6								.7	7.5
NE	.2		.7									.7	5.6
ENE				.7								.7	15.5
E	1.1	1.4	.7	2.6		.4						6.2	9.1
ESE	.1	1.1	.3	1.1	.7							3.4	8.5
SE	.1	4.3	2.0	1.8								10.1	7.3
SSE	.1	3.2	2.7									7.1	5.2
S	.3	1.0	.7	.4								2.4	3.9
SSW	.2	2.1	1.0	.4								3.7	5.2
SW	.2	6.4	1.1	.7								8.4	4.9
WSW	.3	7.3	1.8	.4		.4						12.2	5.6
W	.1	7.2	1.1	1.1	.4							10.1	4.9
WNW	.1	1.4	2.1	.4								3.9	6.2
NW	.2	.7	.3	.4								1.6	6.5
NNW	.2											.2	2.0
VARBL													
CALM												3.4	
	3.4	40.2	19.2	13.4	1.1	.7						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 282

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH ALL

CLASS _____ HOURS L.S.T.

CONDITION _____

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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				.4									
NNE													
NE													
ENE													
E				1.7								2.4	
ESE													
SE					.4								
SSE													
S													
SSW				.4									
SW				.4								16.9	
WSW				1.2									
W				1.2	.4	.4							
WNW				.8	.4								
NW												2.4	
NNW													
VARBL													
CALM												2.4	

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS L S T

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

1/2

SURFACE WINDS

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

STATION _____ STATION NUMBER _____ YEARS _____ MONTH _____

CLASS _____ HOURS - L.S.T.

CONDITION _____

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS - L S T

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH 1

CLASS | HOURS L.S.T.

CONDITION

SPEED (KNTS) 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													7.1
NNE													
NE													
ENE													11.7
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS L.S.T.

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	1.[illegible]	24.[illegible]	31.[illegible]	14.7	[illegible].1							1[illegible].[illegible]	[illegible].[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS

CONDITION | HOURS (L.S.T.)

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS

HOURS L.S.T.

CONDITION

SPEED (KNTS) 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.	1.	1.	.								4.	5.4
NNE	.	.	.	.	.							2.	7.6
NE	.	1.	1.									2.	6.3
ENE		.	.									1.	7.
E	.	2.	.	.		.						4.	7.7
ESE	.	.	4.	.								2.6	7.4
SE	.	3.1	1.	1.	.							6.5	9.2
SSE	.		.									1.	5.3
S	.	.	1.	.								2.	6.
SSW	.	.	1.	.								2.	7.5
SW			1.	1.								2.	10.5
WSW		.	2.1	3.	.	.						7.	13.0
W		.	4.5	9.1	1.2	.						15.	14.0
WNW		.	4.	14.3	4.5	.						24.	13.4
NW		.	2.	7.1	.							10.	10.
NNW	.	.	2.	.								4.	7.6
VARBL													
CALM												1.	
	.	12.	31.	36.2	11.5	1.						100.	13.

TOTAL NUMBER OF OBSERVATIONS 247

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS ALL WEATHER

CONDITION _____

HOURS (L S T) _____

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	.1	16.7	25.	34.9	14.2	2.2							11.2

TOTAL NUMBER OF OBSERVATIONS _____

SMOS

2

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L.S.T.)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

10
2

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T _____

CONDITION _____

SPEED (KNTS) 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		•										•	5.5
NNE		•										•	4.5
NE													
ENE	•		•									•	5.0
E			•									•	10.5
ESE			•	• 3	•							1.0	13.7
SE			•	•	•							1.4	13.5
SSE	•	1.	•									5.1	5.2
S	1.	•	2.4	•								8.4	6.0
SSW	• 1	•	•	•								17.4	6.1
SW	5.4	•	5.	• 3								16.3	5.8
WSW	•	3.	2.1	1.	•							10.	5.8
W	•	5.2	•	5.	•	• 3						1.3	5.5
WNW	1.	2.4	• 1	3.	1.		•					11.	10.3
NW		•	1.	1.		•						3.1	10.6
NNW	•		•									1.4	7.3
VARBL													
CALM												3.1	
	1.3	33.	32.1	17.2	2.4	.7	.3					100.	7.1

TOTAL NUMBER OF OBSERVATIONS 247

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH: NOV

CLASS | HOURS (L.S.T.): 07

CONDITION

SPEED (KNTS) 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	•		•									1.1	•
NNE	•	•		•								1.1	•
NE													
ENE	•											•	1.
E		•	•									•	•
ESE	•					•						•	12.
SE	•	•	•	1.1								2.	3.1
SSE	•	1.	•	•								•	6.1
S	•	4.1	2.	1.1								8.9	6.6
SSW	•	•	•	•								13.	5.
SW	•	4.	4.	1.1								12.	6.
WSW	•	•	•	1.1								10.	5.3
W	•	•	•	5.	2.2	•						22.	4.9
WNW	•	2.	2.	2.6	1.5	•						12.	6.
NW	•	1.	•	1.	•								5.9
NNW		•	1.	•								3.	5.
VARBL													
CALM													
	1.1	35.4	26.2	15.	4.1	1.1						17.	7.3

TOTAL NUMBER OF OBSERVATIONS 271

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS ALL WEATHER

HOURS (L S T) _____

CONDITION _____

SPEED (KNTS) 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	•	•	1.1	•								2.2	8.2
NNE													
NE		•										•	5.0
ENE	•			•								•	9.5
E	•											•	2.0
ESE		•		•	•		•					1.5	16.8
SE	•	•	•	•								1.1	7.2
SSE	•	3.5	1.									4.5	5.4
S	1.	3.7	1.1									5.9	5.0
SSW	•	•	1.	•								15.9	5.4
SW	•	5.	1.	•								10.3	5.1
WSW	•	3.	•	1.5	•	•						13.3	6.5
W	•	3.4	6.5	5.3	1.1	•						26.3	8.4
WNW	•	2.3	2.6	2.6	1.1							8.9	9.8
NW	•	•	1.	•								3.1	8.4
NNW		•	1.	•								2.1	8.6
VARBL													
CALM												3.7	
	1.2	33.0	25.5	13.7	3.3	.7	.4					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 271

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH: ALL | CLASS | HOURS (L S T) | CONDITION

SPEED (KNTS) 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	•	•							3.2	7.5
NNE	•	•	•									1.2	5.2
NE	•	•	•	•								1.2	7.8
ENE	•	•	•	•	.1							•	8.5
E	•	•	1.1	•	.1							2.2	8.1
ESE	•	1.0	1.1	1.2	.1	•						4.4	7.2
SE	•	1.1	1.1	1.0	•	•						4.1	8.4
SSE	•	1.0	1.1	.1								4.2	5.3
S	•	1.0	1.0	•	.1							3.0	6.5
SSW	•	.1	•	.4	•							10.4	6.2
SW	1.0	.1	•	•	•	•						12.4	6.2
WSW	•	•	2.0	1.1	•	.1	•					10.2	7.2
W	.1	2.2	2.0	2.2	1.2	.5	.1	•				17.0	9.4
WNW	•	1.2	2.1	3.2	•	.2	•					9.1	10.3
NW	•	1.2	1.0	1.1	.2							5.6	7.5
NNW	.1	•	•	•								1.0	6.5
VARBL													
CALM												2.1	
	1.2	35.2	2.2	14.7	3.4	1.2	.2	.0				100.	7.4

TOTAL NUMBER OF OBSERVATIONS 2276

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

_____ CLASS _____ HOURS (L S T)

CONDITION _____

SPEED (KNTS) 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.	•									2.4	3.7
NNE	1.		•									1.7	3.6
NE	•											•	3.0
ENE													
E	•	•	•	•								4.1	5.6
ESE	1.	1.	•	1.	•							4.	7.
SE	•	2.4	1.7	1.	•							8.	6.5
SSE	•	2.	1.									10.	5.1
S	•	2.	1.	1.								5.	5.3
SSW	•	2.	1.	•								2.	5.
SW	1.	2.4	1.	1.								6.	6.
WSW	•	2.	2.	•	•	•						7.	5.1
W	1.	5.	•	2.4	•							16.7	7.
WNW		•	2.	2.1								5.	7.
NW	•	2.	•	1.								7.6	7.3
NNW	•	1.	•									2.	5.4
VARBL													
CALM												4.4	
	•	34.	21.	11.	1.	•						100.	6.2

TOTAL NUMBER OF OBSERVATIONS 193

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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.	•	1.4								6.	7.9
NNE		•	1.									2.	7.5
NE		•	•	•								•	5.
ENE	•	1.	1.									3.4	6.5
E		•	4.	•	•							8.1	7.8
ESE		•	6.4	3.4								12.2	9.1
SE	•	1.	4.	3.4	•							10.2	9.6
SSE		•	•	•								3.4	5.1
S		•	•		•							3.4	4.6
SSW		•	1.	•								2.	6.8
SW		•	1.	1.								3.1	9.7
WSW		•	•	•	1.4							4.	11.9
W		•	1.	•	1.1	2.						13.	15.5
WNW	•	•	•	•	1.4	•						12.	12.6
NW		•	2.	5.4	•							9.	11.6
NNW		1.	1.	•								3.1	7.2
VARBL												•	
CALM													
	1.	1.	4.	31.5	7.5	2.4						10.	10.3

TOTAL NUMBER OF OBSERVATIONS 2

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH DEC

CLASS ALL WEATHER

CONDITION _____

HOURS (L S T) _____

SPEED (KNTS) 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													
	1 .	35.7	27.1	14.1	4.0	.7						100.	7.3

TOTAL NUMBER OF OBSERVATIONS 277

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH DEC

CLASS ALL WEATHER HOURS (L S T) _____

CONDITION _____

SPEED (KNTS) 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	•		•									•	6.2
NNE													
NE	•											•	2.5
ENE													
E	•	•				•						1.4	5.5
ESE	•											•	2.0
SE			•									•	7.5
SSE	•	•	•									2.1	4.6
S	2.4	5.0	1.									3.4	4.6
SSW	•	•	•	•	•							12.3	6.2
SW	•	4.	•	•								11.3	5.7
WSW	1.	4.5	4.5	2.1								12.2	7.1
W	•	•	7.	6.	1.4	•						18.1	9.5
WNW		•	2.	3.	1.	•						9.7	11.3
NW	•	1.	1.	•	•							4.5	8.2
NNW		•	1.		•							2.4	9.0
VARBL													
CALM												2.4	
	4.2	3.	27.8	14.2	3.5	1.4						100.	7.4

TOTAL NUMBER OF OBSERVATIONS 248

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH DEC

CLASS ALL DATA HOURS (L S T

CONDITION _____

SPEED (KNTS) 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.[illegible]	15.3
NNE												[illegible]	4.[illegible]
NE													
ENE												.3	[illegible]
E												[illegible]	2.[illegible]
ESE													
SE												.7	9.[illegible]
SSE												.7	4.[illegible]
S												6.[illegible]	5.7
SSW												15.1	5.5
SW												12.7	6.9
WSW												14.1	7.6
W												[illegible]	1.[illegible]
WNW												14.1	1.5
NW												3.1	[illegible]
NNW												3.1	[illegible]
VARBL													
CALM												1.4	
	7.	[illegible]	35.4	20.3	4.1	1.[illegible]	.3					1[illegible]	3.4

TOTAL NUMBER OF OBSERVATIONS [illegible]1

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH DEC

CLASS ALL WEATHER HOURS (L.S.T.) 1?

CONDITION _____

SPEED (KNTS) 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		2.	.7									3.1	5.3
NNE	.											.3	1.0
NE													
ENE													
E		.										.3	
ESE			.					.3				.	22.5
SE	.											.	
SSE	.	.										.7	4.5
S	.	2.	.1	.7								6.5	7.5
SSW		.	1.	.								4.4	7.2
SW	.	2.	2.									5.1	6.1
WSW	.	2.	2.	2.	1.4	.7						9.	9.9
W	.	2.	4.	15.	5.4	1.7	.3					31.0	13.3
WNW	.	.1	.1	11.2	3.4	.7						24.	11.7
NW	.	1.	.4	3.1								5.	7.6
NNW	.	1.	1.	.7								3.7	6.5
VARBL													
CALM												1.	
	.4	.	6.2	33.3	1.2	2.7	.3	.3				100.	10.

TOTAL NUMBER OF OBSERVATIONS 2?4

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH: D.C | 1[illegible]

CLASS: ALL [illegible]

HOURS (L S T)

CONDITION

SPEED (KNTS) 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	[illegible]	1.[illegible]	[illegible]									[illegible].1	[illegible]
NNE	[illegible]	[illegible]										1.[illegible]	4.3
NE		[illegible]	[illegible]									.[illegible]	5.5
ENE	[illegible]		[illegible]	[illegible]								1.[illegible]	[illegible]
E	[illegible]	[illegible]	[illegible]		[illegible]							1.[illegible]	7.2
ESE	[illegible]											.[illegible]	3.[illegible]
SE	[illegible]	[illegible]		[illegible]								2.1	6.[illegible]
SSE		[illegible]	[illegible]									.[illegible]	[illegible]
S	[illegible]	1.[illegible]	1.	1.[illegible]								[illegible].1	7.[illegible]
SSW		1.	[illegible].[illegible]	.[illegible]								[illegible].[illegible]	7.[illegible]
SW		1.	1.	1.4								3.[illegible]	[illegible].4
WSW	[illegible]	1.	1.[illegible]	2.4	[illegible].3							[illegible].[illegible]	9.[illegible]
W	[illegible]	1.[illegible]	1.[illegible]	12.[illegible]	[illegible].[illegible]	[illegible].[illegible]						[illegible].[illegible]	12.[illegible]
WNW	[illegible]	2.4	[illegible].[illegible]	12.	[illegible].1	.[illegible]						24.[illegible]	11.[illegible]
NW	[illegible]	1.[illegible]	[illegible].	2.4								11.[illegible]	[illegible].4
NNW	[illegible]	1.	1.	.[illegible]								[illegible].	6.[illegible]
VARBL													
CALM												1.4	
	[illegible]	10.4	32.[illegible]	34.2	[illegible].[illegible]	1.4						1[illegible].[illegible]	[illegible].9

TOTAL NUMBER OF OBSERVATIONS [illegible]92

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS _____ MONTH

ALL WEATHER
CLASS

HOURS (L S T)

CONDITION

SPEED (KNTS) 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	1.1			.7								1.7	4.9
NNE	.4											.7	2.0
NE					.7							.7	2.0
ENE				.7								.7	15.0
E			.4									.3	5.0
ESE				.7								.7	14.0
SE	.4	.7										.7	4.0
SSE	.4	1.2	.4									2.4	5.1
S	.7	2.7	1.7	.3								6.6	5.8
SSW	.7	4.1	2.4	.3								7.5	5.3
SW	.4	2.1	2.4	.7	.3							6.0	6.8
WSW	1.1	3.0	1.1	1.4								10.3	7.0
W	.1	6.2	11.7	4.6	1.	.7	.3					33.4	9.1
WNW	.4	4.5	5.0	1.7	1.							15.0	7.6
NW	.4	1.4	1.1	2.1								5.1	8.0
NNW	.4	.7		.7								1.4	6.3
VARBL													
CALM												.7	
	1.0	28.4	30.3	15.0	2.0	.7	.3					100.	7.2

TOTAL NUMBER OF OBSERVATIONS 3[illegible]

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

CLASS | HOURS (L S T)

CONDITION

SPEED (KNTS) 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		•										•	4.0
NNE					•							•	15.0
NE				•								•	11.0
ENE													
E													
ESE	•			•								•	8.5
SE													
SSE	1.0	1.4	•									3.0	4.6
S	1.0	3.1	1.4									5.0	5.1
SSW	•	4.0	4.0									11.1	6.2
SW	.1	5.0	3.0	•								12.2	5.9
WSW	1.0	4.0	6.0	1.0		•						14.0	7.1
W	.5	17.0	8.0	4.6	•	•						34.0	7.5
WNW	.1	3.1	2.0	2.0	•							11.5	9.2
NW	•	•	•	•								2.1	7.7
NNW	•		•	•								1.4	9.0
VARBL													
CALM												1.0	
	4.0	38.0	21.0	13.0	1.4	1.0						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 258

SMOS

SURFACE WINDS

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

STATION _____ STATION NAME _____ YEARS 73-82 MONTH DEC

CLASS ALL WEATHER HOURS (LST) ALL

CONDITION _____

SPEED (KNTS) 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	.4	.2	.2	.2	.2							1.2	5.3
NNE	.2	.2			.2							.4	5.3
NE	.2	.2	.2	.2	.2							.7	9.2
ENE	.1	.2		.1	.1							.3	7.5
E	.2	.2	.1		.1	.1						.7	9.6
ESE	.2	.2	.2	.1				.2				.4	6.9
SE	.2	.2	.1	.2								.7	6.5
SSE	.2	.2	.2									1.6	4.7
S	.5	1.2	1.2	.4								3.7	5.9
SSW	1.2	.2	2.2	.7	.2							6.6	5.9
SW	1.2	4.2	2.4	.6	.1							9.3	6.3
WSW	1.2	4.1	4.2	2.2	.7	.1						12.2	7.7
W	.2	2.5	3.2	2.5	2.2	.5	.1					30.5	9.9
WNW	1.1	2.2	4.2	5.1	1.8	.2						15.6	10.2
NW	.2	1.2	2.1	1.2	.1							5.4	8.4
NNW	.4	.2	.2	.4	.2							2.2	7.2
VARBL													
CALM												2.3	
	11.2	20.1	27.2	20.1	4.2	1.1	.1	.2				100.2	.1

TOTAL NUMBER OF OBSERVATIONS 2712

SMOS

SURFACE WINDS

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

STATION | STATION NAME | YEARS | MONTH

ALL WEATHER | ALL

CLASS | HOURS (L S T

CONDITION

SPEED (KNTS) 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	•	•	•	•	•		•					2.4	5.3
NNE	•	•	•	•	•	•						1.[illegible]	5.5
NE	•	•	•	•	•	•	•					1.[illegible]	6.4
ENE	•	•	•	•	•	•						2.3	7.1
E	•	3.1	2.[illegible]	1.[illegible]	•	•						7.8	8.0
ESE	•	2.[illegible]	3.1	2.4	•	•	•	•				6.7	9.1
SE	•	1.[illegible]	1.[illegible]	1.[illegible]	•	•	•					5.7	8.4
SSE	•	1.[illegible]	•	•	•							3.1	5.3
S	•	2.1	1.[illegible]	•	•							3.1	5.9
SSW	•	[illegible]	[illegible]	•	•	•						1.6	5.9
SW	•	[illegible]	[illegible]	•	•	•	•					3.1	6.6
WSW	1.[illegible]	[illegible]	[illegible]	1.[illegible]	•	•	•	•				5.4	8.2
W	•	[illegible]	4.1	4.[illegible]	1.[illegible]	•	•	•				16.[illegible]	9.6
WNW	•	1.[illegible]	[illegible]	[illegible]	1.2	•	•					5.9	10.9
NW	•	•	1.[illegible]	1.4	•	•						4.6	9.1
NNW	•	•	•	•	•	•						2.[illegible]	7.0
VARBL													
CALM												3.[illegible]	
	1.2	2.[illegible]	28.2	19.1	4.9	1.1	.2	•				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 26356

SMOS

2

SURFACE WINDS

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

STATION: P, JAPA STATION NAME: YEARS: [illegible] MONTH: ALL

INSTRUMENT CLASS: HOURS (L S T): ALL

CEILING TO 1400 FT W/VSBY 1/2 MI OR MORE,

CONDITION

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

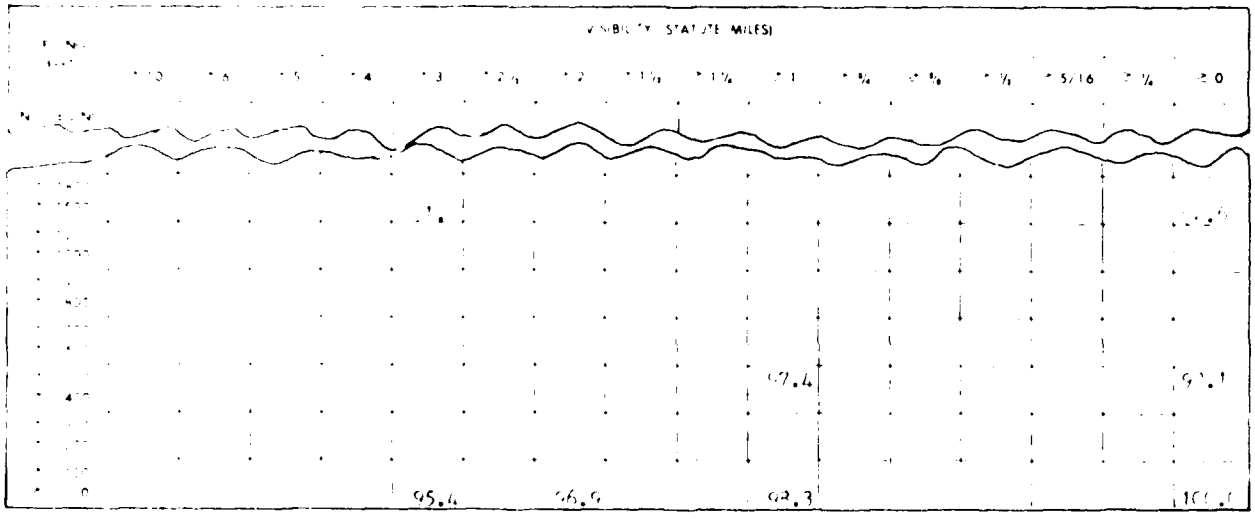
SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.	.		.					2.7	6.7
NNE	.	1.1	.	.	.	.						2.[illegible]	5.4
NE	.	1.1	.	.	.	.	.					3.[illegible]	7.8
ENE	.	1.	1.	1.	.	.						5.6	6.6
E	1.	2.	2.	6.	1.	.						13.6	9.6
ESE	1.	2.	2.	4.	1.	.	.	.				12.2	10.3
SE	.	2.	2.	2.	.	.	.					7.4	8.4
SSE	.	1.	.	.								.	5.1
S	.	.	.	.								1.	4.4
SSW	.	.	.									1.	4.3
SW	.	.	.	.	.							1.	4.3
WSW	.	.	1.	.	.	.						3.	6.7
W	.	2.1	2.	7.	1.	.	.					11.	11.1
WNW	.	1.	1.	1.	.	.	.					5.	10.4
NW	.	.	.	.	.							2.	7.9
NNW	.	.	.	.	.							2.	6.7
VARBL													
CALM												4.	
	1.1	23.	24.	22.3	7.0	1.	.3	.				10.	.5

TOTAL NUMBER OF OBSERVATIONS 426

SMOS

PART D CEILING VERSUS VISIBILITY

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION



EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0. For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0. From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4 — Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 — To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility ≥ 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

If the observations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

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

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

Note #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

Note #2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

OKTAS	TENTHS
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

Note #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10
Scattered converted to 3/10
Broken converted to 9/10
Overcast converted to 10/10
Obscured converted to 10/10

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0	0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1600																
≥ 1400																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET*	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

DMA/AWS/OCEANMET (MF 15)

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
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≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS 273

DIFFERENCE AMMET 5M 25

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
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≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CTRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
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≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS _____ 71

DEPARTMENT OF THE NAVY

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | JAN MONTH | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING			3	34.2	34.4	34.4	34.4	34.4	34.4	34.4	34.5	34.5	34.6	34.6	34.6
≥ 20000							39.2					39.3	39.4	39.4	39.4
≥ 18000												39.6	39.7	39.7	39.7
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS 2 0

DIRNAVOCEANPRED SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.	7.	37.3	37.3	37.	37.	37.	37.0	37.0	37.3	37.9	37.9	37.9	37.	37.9	37.
≥ 20000	4.	4.	4.	4.	41.6	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
≥ 18000	4.	4.	4.	4.	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 16000	4.	4.	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 14000	4.	41.6	41.6	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
≥ 12000	4.	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 10000	4.	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 9000	4.	45.0	44.3	44.3	45.0	45.0	45.0	45.0	45.0	45.0	45.	45.0	45.0	45.	45.	45.
≥ 8000	4.	4.	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 7000	4.	46.6	46.3	46.3	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 6000	4.	47.	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 5000	4.	4.	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 4500	4.	51.	51.7	51.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 4000	4.	5.	55.7	55.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 3500	1.7	7.	59.7	59.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 3000	4.	62.1	62.3	62.4	63.8	63.3	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
≥ 2500	4.	67.8	69.1	69.6	71.5	71.5	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 2000	4.	74.	77.9	77.9	82.2	82.4	81.9	82.6	82.9	82.9	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1800	4.	74.	77.2	77.2	80.5	81.5	82.2	82.9	83.2	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 1500	4.	76.5	79.2	79.9	85.9	86.9	87.6	88.6	88.9	89.6	89.9	89.9	89.9	89.9	89.9	89.9
≥ 1200	4.	76.6	79.2	79.9	85.9	86.9	87.6	88.9	89.3	89.9	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1000	4.	76.6	79.5	81.2	86.2	87.3	88.3	89.6	90.6	92.6	93.0	93.0	93.0	93.0	93.0	93.0
≥ 900	4.	76.6	79.9	81.5	86.6	87.6	88.6	89.9	90.9	92.9	93.3	93.3	93.3	93.3	93.3	93.3
≥ 800	4.	76.6	80.2	81.9	86.9	87.9	88.9	90.6	91.6	93.6	94.3	94.6	94.6	94.6	94.6	94.6
≥ 700	4.	77.2	80.5	82.2	87.3	88.3	89.3	91.0	92.3	93.6	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600	4.	77.2	80.5	82.2	87.3	88.3	89.6	91.3	92.6	94.	95.6	96.0	96.0	96.3	96.3	96.3
≥ 500	4.	77.2	80.5	82.2	87.6	88.6	90.3	92.6	94.0	95.6	97.7	98.0	98.0	98.7	98.7	98.7
≥ 400	4.	77.2	80.5	82.2	87.6	88.	90.3	92.6	94.0	95.6	97.7	98.0	98.0	98.7	98.7	98.7
≥ 300	4.	77.2	80.5	82.2	87.6	88.6	90.3	92.6	94.0	95.6	97.7	98.0	98.0	98.7	98.7	98.7
≥ 200	4.	77.2	80.5	82.2	87.6	88.6	90.3	92.6	94.0	95.6	97.7	98.0	98.3	99.0	99.0	99.0
≥ 100	4.	77.2	80.5	82.2	87.6	88.6	90.3	93.1	94.3	96.	98.0	98.3	99.0	99.7	99.7	99.7
≥ 0	4.	77.2	80.5	82.2	87.6	88.6	90.3	93.0	94.3	96.	98.0	98.3	99.0	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS _____

DEPNAVOCEANMET 5M05

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH JAN

HOURS (L S T) 18

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	[illegible]	39.1	39.1	39.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
≥ 20000	[illegible]	[illegible]	[illegible]	[illegible]	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 18000	[illegible]	[illegible]	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
≥ 16000	[illegible]	[illegible]	39.1	39.1	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
≥ 14000	[illegible]	[illegible]	39.4	39.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 12000	[illegible]	40.7	40.7	40.7	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 10000	[illegible]	42.4	42.7	42.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
≥ 9000	[illegible]	43.4	43.4	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
≥ 8000	[illegible]	44.4	44.7	44.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥ 7000	1.0	46.7	46.7	46.7	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 6000	2.0	46.7	47.0	47.0	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 5000	4.4	48.3	48.7	49.7	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 4500	[illegible]	[illegible]	[illegible]	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 4000	[illegible]	56.6	57.0	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 3500	[illegible]	60.1	61.3	61.6	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
≥ 3000	[illegible]	64.2	66.2	66.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 2500	[illegible]	72.3	73.2	73.3	75.2	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 2000	[illegible]	74.5	77.3	77.8	82.8	84.1	84.8	85.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1800	[illegible]	74.5	77.3	77.8	82.8	84.1	84.8	85.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1500	[illegible]	75.5	77.5	78.3	85.0	87.1	88.1	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
≥ 1200	[illegible]	76.0	78.1	81.5	86.4	87.6	88.7	89.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 1000	[illegible]	76.2	78.5	82.1	87.8	89.1	91.4	92.1	93.7	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 900	[illegible]	76.2	80.5	82.1	87.8	89.1	91.4	92.1	93.7	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 800	[illegible]	76.2	80.5	82.1	87.8	89.4	91.1	92.7	94.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 700	67.0	76.5	80.8	82.5	88.1	89.7	91.4	93.1	94.7	95.4	95.4	95.7	95.7	95.7	95.7	95.7
≥ 600	67.0	76.5	80.8	82.8	88.4	90.4	92.4	94.0	95.7	96.4	96.4	96.7	96.7	96.7	96.7	96.7
≥ 500	67.0	76.5	80.8	82.8	88.4	90.4	92.4	94.7	96.4	97.4	97.4	97.7	97.7	98.0	98.0	98.0
≥ 400	67.0	76.5	80.8	82.8	88.4	90.4	92.4	95.0	96.7	98.3	98.7	99.0	99.3	99.7	99.7	99.7
≥ 300	67.0	76.5	80.8	82.8	88.4	90.4	92.4	95.0	96.7	98.3	98.7	99.0	99.3	99.7	99.7	99.7
≥ 200	67.0	76.5	80.8	82.8	88.4	90.4	92.4	95.0	96.7	98.3	98.7	99.0	99.3	99.7	99.7	99.7
≥ 100	67.0	76.5	80.8	82.8	88.4	90.4	92.4	95.0	96.7	98.3	98.7	99.0	99.3	99.7	100.0	100.0
≥ 0	67.0	76.5	80.8	82.8	88.4	90.4	92.4	95.0	96.7	98.3	98.7	99.0	99.3	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 2

DIFNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION ____ STATION NAME ____ YEARS ____ MONTH JA

HOURS (LST) 1

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING			27.3	27.3	27.3	27.3	27.	27.3	27.3	27.3	27.3	28.2	28.2	28.2	28.2	
≥ 20000			34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	35.1	35.1	35.1	35.1	35.1
≥ 18000			35.4	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	36.1	36.1	36.1	36.1	36.1
≥ 16000		36.1	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.7	36.7	36.7	36.7	36.7
≥ 14000		36.4	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	37.1	37.1	37.1	37.1	37.1
≥ 12000		37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.7	37.7	37.7	37.7	37.7
≥ 10000		38.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	39.0	39.0	39.0	39.0	39.0
≥ 9000		38.7	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.3	39.3	39.3	39.3	39.3
≥ 8000		41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.3	41.3	41.3	41.3	41.3
≥ 7000		41.3	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	42.0	42.0	42.0	42.0	42.0
≥ 6000		42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.6	42.6	42.6	42.6	42.6
≥ 5000		44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.6	44.6	44.6	44.6	44.6
≥ 4500		46.6	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	47.2	47.2	47.2	47.2	47.2
≥ 4000		51.6	51.6	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.5	52.5	52.5	52.5	52.5
≥ 3500		54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.8	54.8	54.8	54.8	54.8
≥ 3000		60.7	61.0	61.0	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.6	61.6	61.6	61.6	61.6
≥ 2500		69.2	70.5	70.5	70.5	70.8	71.5	71.5	71.5	71.5	71.5	71.8	71.9	71.8	71.8	71.8
≥ 2000		74.4	74.1	75.1	75.7	81.1	82.2	82.6	82.9	83.0	83.0	83.3	83.3	83.3	83.3	83.3
≥ 1800		74.4	74.1	75.1	75.7	81.1	82.2	82.6	82.9	83.0	83.0	83.3	83.3	83.3	83.6	83.6
≥ 1500		77.7	80.1	82.6	85.0	86.0	87.5	89.2	89.5	90.2	90.2	90.6	90.8	91.2	91.2	91.2
≥ 1200		81.7	83.6	86.0	87.5	88.5	90.2	91.2	91.5	91.5	91.5	92.1	92.1	92.5	92.5	92.5
≥ 1000		83.3	84.6	86.2	89.2	90.4	92.1	93.4	94.1	94.1	94.1	94.8	94.8	95.1	95.1	95.1
≥ 900		84.9	86.9	89.3	91.3	92.8	94.1	94.8	94.8	94.8	95.4	95.4	95.4	95.7	95.7	95.7
≥ 800		86.6	88.9	89.8	91.2	93.1	94.8	95.7	95.7	96.4	96.4	96.4	96.7	96.7	96.7	96.7
≥ 700		87.2	89.3	90.2	91.5	93.8	95.4	96.4	96.4	96.4	97.1	97.1	97.4	97.4	97.4	97.4
≥ 600		88.6	89.2	90.2	91.5	93.8	95.7	96.7	97.1	97.1	97.7	97.7	98.4	98.4	98.4	98.4
≥ 500		88.6	89.2	90.2	91.5	94.1	96.1	97.1	97.4	98.1	98.4	98.4	99.0	99.0	99.0	99.0
≥ 400		88.6	89.2	90.2	91.5	94.1	96.1	97.1	97.4	98.1	98.4	98.4	99.0	99.0	99.0	99.0
≥ 300		88.6	89.2	90.2	91.5	94.1	96.1	97.4	97.7	98.4	98.7	98.7	99.3	99.7	99.7	99.7
≥ 200		88.6	89.2	90.2	91.5	94.1	96.1	97.4	97.7	98.4	98.7	98.7	99.3	99.7	99.7	99.7
≥ 100		88.6	89.2	90.2	91.5	94.1	96.1	97.4	97.7	98.4	98.7	98.7	99.3	99.7	99.7	99.7
≥ 0		88.6	89.2	90.2	91.5	94.1	96.1	97.4	97.7	98.4	98.7	98.7	99.3	99.7	100.0	

TOTAL NUMBER OF OBSERVATIONS ____ 708

DIRNAVOCEANMET 9M05

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ⅞	≥ ¾	≥ ½	≥ 5/16	≥ ¼	0
NO CEILING	•	[illegible]	31.4	31.4	31.[illegible]	[illegible]	31.8	31.8	31.[illegible]	31.8	31.[illegible]	31.[illegible]	31.[illegible]	31.[illegible]	31.[illegible]	31.[illegible]
≥ 20000	1.1	36.[illegible]	37.5	37.6	37.[illegible]	7.6	37.8	37.8	37.8	37.8	37.[illegible]	37.8	37.8	37.8	37.8	37.8
≥ 18000	1.[illegible]	[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	38.9	38.9	38.9	38.9	38.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 16000	[illegible]	[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 14000	•	[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 12000	[illegible]	[illegible]	41.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 10000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 9000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 8000	•	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 7000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 6000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 5000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 4500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 4000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 3500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 3000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 2500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 2000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 1800	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 1500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 1200	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 1000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 900	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 800	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 700	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 600	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 400	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 300	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 200	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 100	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH: JAN | HOURS (L.S.T.): 09

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
≥ 20000	41.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 18000	41.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 16000	42.2	42.2	42.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 14000	43.2	43.2	43.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
≥ 12000	44.2	44.2	44.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 10000	44.2	44.2	44.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 9000	45.2	45.2	45.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥ 8000	46.2	46.2	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 7000	47.2	47.2	47.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 6000	48.2	48.2	48.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 5000	50.2	50.2	50.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 4500	51.2	51.2	51.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 4000	53.2	53.2	53.2	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 3500	57.2	57.2	57.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 3000	60.2	60.2	60.2	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 2500	62.2	62.2	62.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
≥ 2000	64.2	64.2	64.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 1800	65.2	65.2	65.2	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 1500	66.2	66.2	66.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 1200	67.2	67.2	67.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 1000	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 900	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 800	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 700	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 600	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 500	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 400	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 300	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 200	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 100	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 0	68.2	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4

TOTAL NUMBER OF OBSERVATIONS 294

DENSAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH: JAN

HOURS (L.S.T.): 03

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	34.4	[illegible]	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.7	34.7	34.7
≥ 20000	[illegible]	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.8	37.9	37.9	37.9
≥ 18000	[illegible]	[illegible]	[illegible]	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	38.1	38.1	38.1	38.1
≥ 16000	[illegible]	[illegible]	37.8	37.8	37.9	37.8	37.8	37.8	37.8	37.8	37.8	38.1	38.1	38.1	38.1
≥ 14000	[illegible]	[illegible]	37.8	37.8	37.9	37.8	37.8	37.9	37.9	37.9	37.9	38.1	38.1	38.1	38.1
≥ 12000	[illegible]	[illegible]	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.8	38.8	38.8	38.8
≥ 10000	[illegible]	[illegible]	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	39.1	39.1	39.1	39.1
≥ 9000	[illegible]	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.5	39.5	39.5	39.5
≥ 8000	[illegible]	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	41.2	41.2	41.2	41.2
≥ 7000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 6000	[illegible]	[illegible]	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.5	41.5	41.5	41.5
≥ 5000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 4500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 4000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 3500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 3000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 2500	[illegible]	66.7	67.4	71.1	73.1	73.8	73.8	73.8	73.8	73.8	73.8	74.2	74.2	74.2	74.2
≥ 2000	[illegible]	73.1	78.8	79.9	83.2	84.7	84.7	85.4	85.4	85.4	85.4	85.7	85.7	85.7	85.7
≥ 1800	[illegible]	73.1	78.8	79.9	83.2	84.7	84.7	85.4	85.4	85.4	85.4	85.7	85.7	85.7	85.7
≥ 1500	[illegible]	75.5	77.9	82.1	83.4	90.1	90.3	92.2	92.2	92.2	92.2	92.2	92.5	92.9	92.9
≥ 1200	[illegible]	76.9	78.2	83.7	89.5	91.2	92.2	93.5	93.5	93.5	93.5	93.9	94.2	94.2	94.2
≥ 1000	[illegible]	76.9	78.2	83.7	90.1	91.6	92.9	94.6	94.6	94.9	94.9	94.9	95.2	95.6	95.6
≥ 900	[illegible]	76.9	78.2	83.7	90.1	91.6	92.9	94.6	94.6	94.9	94.9	94.9	95.2	95.6	95.6
≥ 800	[illegible]	76.9	78.2	83.7	90.1	91.6	92.9	94.6	94.6	94.9	94.9	94.9	95.2	95.6	95.6
≥ 700	[illegible]	76.9	78.2	83.7	90.1	91.6	92.9	94.6	94.6	94.9	94.9	94.9	95.2	95.6	95.6
≥ 600	[illegible]	76.9	78.5	84.0	90.5	92.2	93.9	95.6	95.6	95.9	95.9	95.9	96.3	96.6	96.6
≥ 500	[illegible]	76.2	78.6	84.3	90.5	92.2	93.9	95.9	96.3	96.6	96.6	96.6	96.9	97.6	97.6
≥ 400	[illegible]	76.2	78.6	84.3	90.8	93.2	94.2	96.3	96.6	96.9	96.9	96.9	97.3	98.6	98.6
≥ 300	[illegible]	76.2	78.6	84.3	90.8	93.2	94.2	96.3	96.6	96.9	96.9	97.3	98.3	99.3	99.3
≥ 200	[illegible]	76.2	78.6	84.3	90.8	93.5	94.6	96.6	96.9	97.3	97.3	97.6	98.3	99.7	99.7
≥ 100	[illegible]	76.2	78.6	84.3	90.8	93.5	94.6	96.6	96.9	97.3	97.3	97.6	98.3	99.7	99.7
0	[illegible]	76.2	78.6	84.3	90.8	93.5	94.6	96.6	96.9	97.3	97.3	97.6	98.3	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS 74

DIFFERENCE AMET SMOS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
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≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET OMO5

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 20000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 18000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 16000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 14000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 12000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 10000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 9000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 8000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 7000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 6000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 5000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 4500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 4000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 3500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 3000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 2500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 2000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 1800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 1500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 900	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 600	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 400	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 100	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
≥ 0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

TOTAL NUMBER OF OBSERVATIONS

FORM C-ENAMET (WBAN)

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
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≥ 4500															
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≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET - 5MOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
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≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION [illegible] STATION NAME [illegible] YEARS [illegible] MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS ALL

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING	[illegible]	[illegible]	31.2	31.3	31.5	31.6	31.6	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
≥ 20000	[illegible]	36.[illegible]	37.3	37.8	38.1	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.3	38.3	38.3
≥ 18000	[illegible]	37.4	37.8	38.3	38.6	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.8	38.8	38.8
≥ 16000	[illegible]	37.6	38.1	38.5	38.8	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	39.0	39.0	39.0
≥ 14000	[illegible]	38.4	38.8	39.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.8	39.8	39.8
≥ 12000	[illegible]	41.2	41.6	41.1	41.5	41.5	41.5	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
≥ 10000	[illegible]	41.6	42.1	42.5	42.9	42.9	42.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 9000	[illegible]	42.2	42.6	43.1	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.6	43.6	43.6
≥ 8000	[illegible]	44.3	44.4	44.9	45.3	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
≥ 7000	[illegible]	44.5	45.0	45.6	46.2	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.2	46.2	46.2
≥ 6000	[illegible]	44.7	45.2	45.9	46.2	46.2	46.2	46.3	46.3	46.3	46.3	46.3	46.3	46.4	46.4	46.4
≥ 5000	[illegible]	47.1	47.7	48.2	48.6	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.9	48.9
≥ 4500	[illegible]	49.3	49.9	50.5	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.1	51.1	51.1
≥ 4000	[illegible]	53.5	54.2	54.9	55.3	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.8	55.8	55.9
≥ 3500	[illegible]	56.2	56.9	57.0	57.3	57.4	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.6	57.6	57.6
≥ 3000	[illegible]	60.4	61.0	61.4	62.6	62.9	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1
≥ 2500	[illegible]	67.4	68.9	70.2	71.6	72.3	72.4	72.8	73.0	73.2	73.2	73.2	73.2	73.3	73.4	73.4
≥ 2000	[illegible]	72.4	74.5	77.2	80.5	81.2	81.4	82.5	82.8	83.1	83.3	83.3	83.3	83.4	83.5	83.5
≥ 1800	[illegible]	72.5	74.9	77.3	80.6	81.2	81.5	82.5	82.9	83.2	83.4	83.4	83.4	83.5	83.6	83.6
≥ 1500	[illegible]	73.5	76.7	79.5	83.1	84.3	84.8	86.3	86.8	87.2	87.6	87.8	87.8	87.8	87.9	87.9
≥ 1200	[illegible]	73.9	76.9	79.8	83.7	84.8	85.2	86.8	87.3	87.7	88.2	88.4	88.4	88.4	88.5	88.5
≥ 1000	[illegible]	74.2	77.2	80.2	84.6	86.1	86.8	88.6	89.6	90.2	90.9	91.2	91.2	91.2	91.3	91.3
≥ 900	[illegible]	74.2	77.3	80.3	84.7	86.2	86.9	89.1	89.9	90.5	91.2	91.4	91.4	91.5	91.6	91.6
≥ 800	[illegible]	74.3	77.4	80.5	85.1	86.6	87.6	90.1	91.0	91.8	92.7	93.1	93.2	93.4	93.5	93.5
≥ 700	[illegible]	74.3	77.5	80.6	85.1	86.7	87.9	91.6	91.9	92.4	93.4	93.9	94.1	94.3	94.4	94.4
≥ 600	[illegible]	74.4	77.5	80.6	85.4	86.9	88.1	91.3	92.3	93.3	94.5	95.1	95.4	95.7	95.8	95.9
≥ 500	[illegible]	74.4	77.5	80.6	85.4	87.0	88.3	91.6	92.9	93.9	95.4	96.0	96.3	96.8	96.9	96.9
≥ 400	[illegible]	74.5	77.7	80.8	85.6	87.3	88.7	92.1	93.3	94.5	96.2	96.8	97.3	97.8	98.0	98.0
≥ 300	[illegible]	74.5	77.7	80.8	85.6	87.4	88.9	92.3	93.6	94.9	96.8	97.6	98.1	98.9	99.1	99.2
≥ 200	[illegible]	74.5	77.7	80.8	85.6	87.4	88.9	92.3	93.6	94.9	96.9	97.6	98.2	99.2	99.5	99.6
≥ 100	[illegible]	74.5	77.7	80.8	85.6	87.4	88.9	92.4	93.7	95.0	96.9	97.8	98.4	99.4	99.7	100.0
≥ 0	[illegible]	74.5	77.7	80.8	85.6	87.4	88.9	92.4	93.7	95.0	96.9	97.8	98.4	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 2159

DIRNAVOCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS _____ 5

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

HOURS (L S T) _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	39.0	39.0	39.0	39.2	39.6	39.6	39.6	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
≥ 20000	47.4	47.7	49.1	49.5	49.5	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 18000	47.4	47.7	49.1	49.5	49.5	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 16000	47.4	47.7	49.1	49.5	49.5	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 14000	48.1	48.4	49.8	50.2	50.2	50.2	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 12000	50.9	50.9	52.3	52.7	52.7	52.7	53.0	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 10000	51.4	51.7	53.1	53.7	54.1	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 9000	52.7	53.4	54.8	55.5	55.5	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 8000	53.7	54.4	55.8	56.5	56.5	56.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 7000	54.1	54.8	56.2	56.9	56.9	56.9	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
≥ 6000	54.4	55.1	56.5	57.2	57.2	57.2	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
≥ 5000	55.2	56.2	57.6	58.3	58.3	58.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 4500	56.6	57.6	59.0	59.7	59.7	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 4000	59.0	59.7	61.1	61.8	61.8	61.8	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 3500	59.7	60.4	61.8	63.3	63.3	63.3	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 3000	65.8	66.1	67.5	69.6	70.0	70.0	70.3	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 2500	69.6	70.7	73.1	75.3	76.0	76.3	77.0	77.4	77.7	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2000	72.6	74.6	77.7	79.9	81.3	81.6	83.4	83.8	84.5	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1800	72.8	74.8	77.7	79.9	81.3	81.6	83.4	83.8	84.5	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1500	73.1	74.9	78.8	81.6	83.0	83.4	85.2	85.5	86.2	86.9	86.9	86.9	86.9	86.9	86.9
≥ 1200	73.1	74.9	78.8	82.7	83.4	83.8	85.5	85.9	86.6	87.3	87.3	87.3	87.3	87.3	87.3
≥ 1000	73.1	74.9	78.8	82.7	83.8	84.1	85.9	86.2	86.9	87.6	87.6	88.0	88.0	88.0	88.0
≥ 900	73.9	75.6	79.5	82.7	84.8	85.2	86.9	87.3	88.0	88.7	88.7	89.1	89.1	89.1	89.1
≥ 800	74.6	76.3	80.6	84.1	86.2	86.6	88.7	89.1	89.8	91.2	91.2	91.5	91.5	91.5	91.5
≥ 700	74.6	76.3	80.6	84.3	86.9	87.3	89.4	89.8	91.2	91.9	91.9	92.2	92.2	92.2	92.2
≥ 600	74.6	76.3	80.6	85.2	87.3	87.6	90.1	90.5	92.2	92.9	92.9	93.3	93.6	93.6	93.6
≥ 500	74.6	76.3	81.0	85.5	87.6	88.0	91.5	92.2	94.4	95.1	95.1	95.4	95.8	95.8	95.8
≥ 400	74.9	76.7	81.3	86.2	88.3	88.7	92.2	93.3	95.8	96.5	96.5	96.8	97.9	97.9	97.9
≥ 300	74.9	76.7	81.3	86.6	88.7	89.4	92.9	94.0	96.5	97.2	97.2	97.5	98.9	98.9	98.9
≥ 200	74.9	76.7	81.3	86.6	88.7	89.4	92.9	94.0	96.5	97.5	97.5	97.9	99.3	99.3	99.3
≥ 100	74.9	76.7	81.3	86.6	88.7	89.4	92.9	94.0	96.5	97.5	97.5	98.2	100.0	100.0	100.0
≥ 0	74.9	76.7	81.3	86.6	88.7	89.4	92.9	94.0	96.5	97.5	97.5	98.2	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 293

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

HOURS (LST) _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	34.2	34.[illegible]	34.[illegible]	34.[illegible]	34.[illegible]	34.[illegible]	34.[illegible]	34.[illegible]	34.[illegible]	34.[illegible]	34.9	34.9	34.[illegible]	34.9	34.[illegible]
≥ 20000	[illegible]	45.6	45.[illegible]	45.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
≥ 18000	[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]
≥ 16000	[illegible]	46.[illegible]	46.[illegible]	45.6	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]
≥ 14000	[illegible]	46.3	46.6	46.[illegible]	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 12000	[illegible]	46.[illegible]	47.3	47.7	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]	48.[illegible]
≥ 10000	[illegible]	47.3	48.7	49.0	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 9000	[illegible]	[illegible]	48.7	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 8000	[illegible]	[illegible]	[illegible]	52.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
≥ 7000	[illegible]	1.[illegible]	[illegible]	52.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 6000	[illegible]	1.3	52.7	53.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.[illegible]	54.[illegible]
≥ 5000	[illegible]	5[illegible]	56.4	56.7	58.1	58.1	58.1	58.1	5[illegible].1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 4500	[illegible]	57.4	[illegible].7	[illegible].1	60.4	60.4	60.4	[illegible].4	[illegible].4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 4000	[illegible]	61.7	62.1	[illegible].4	64.8	65.1	65.1	65.1	[illegible].4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 3500	[illegible].4	62.1	62.4	63.8	65.1	65.4	65.4	65.4	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 3000	[illegible].4	[illegible].[illegible]	[illegible].5	69.1	71.1	71.[illegible]	71.8	72.2	72.[illegible]	72.8	72.8	72.8	72.8	73.2	73.2	73.2
≥ 2500	[illegible]	73.2	74.2	75.2	75.[illegible]	79.2	79.5	79.9	80.[illegible]	80.[illegible]	80.9	80.9	80.9	81.2	81.2	81.2
≥ 2000	.1	76.[illegible]	78.[illegible]	80.5	84.9	85.6	85.9	86.2	87.3	87.6	87.9	87.9	87.9	87.9	88.3	88.3
≥ 1800	.1	76.2	78.2	80.5	84.[illegible]	85.6	85.9	86.2	87.3	87.6	87.9	87.9	87.9	88.3	88.3	88.3
≥ 1500	.[illegible]	76.9	8[illegible].5	81.9	86.2	86.9	87.3	87.9	88.9	89.3	89.6	89.6	89.6	89.9	89.9	89.9
≥ 1200	[illegible].[illegible]	77.2	8[illegible].9	82.2	86.6	87.3	87.6	88.6	89.6	89.9	90.3	90.3	90.3	90.6	90.6	90.6
≥ 1000	[illegible].[illegible]	77.2	8[illegible].9	82.2	87.3	87.9	88.3	89.3	9[illegible].3	9[illegible].9	91.3	91.3	91.3	91.6	91.6	91.6
≥ 900	[illegible].1	77.[illegible]	81.5	82.9	87.9	88.6	88.9	9[illegible].3	91.6	92.6	93.[illegible]	93.0	93.0	93.3	93.3	93.3
≥ 800	[illegible].1	77.[illegible]	81.5	82.9	87.9	88.6	89.3	9[illegible].6	92.[illegible]	93.[illegible]	93.3	93.3	93.3	93.6	93.6	93.6
≥ 700	[illegible].1	77.5	81.5	82.9	87.9	88.6	89.3	90.6	92.[illegible]	93.3	93.6	93.6	93.6	94.[illegible]	94.0	94.[illegible]
≥ 600	[illegible].1	77.5	81.5	83.2	88.3	88.9	89.6	90.9	92.3	93.6	94.[illegible]	94.0	94.0	94.3	94.3	94.3
≥ 500	[illegible].1	77.5	81.5	83.2	89.6	89.6	90.6	92.0	93.3	95.0	95.3	95.3	95.3	96.0	96.0	96.0
≥ 400	[illegible].5	77.9	81.9	83.6	89.[illegible]	90.3	91.6	93.3	94.6	96.6	97.0	97.3	97.3	98.0	98.0	98.0
≥ 300	[illegible].5	77.9	81.9	83.6	89.3	90.3	91.6	93.3	94.6	96.6	97.0	97.3	97.3	98.0	98.0	98.0
≥ 200	[illegible].5	77.9	81.9	83.6	89.[illegible]	90.3	91.6	93.6	95.3	97.3	97.7	98.0	98.0	98.7	98.7	99.0
≥ 100	[illegible].9	77.9	81.9	83.6	89.[illegible]	90.3	91.6	93.6	95.3	97.3	97.7	98.3	98.3	99.0	99.3	100.0
≥ 0	70.5	77.9	81.9	83.6	89.3	90.3	91.6	93.6	95.3	97.3	97.7	98.3	98.3	99.0	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS _____ [illegible]8

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¾	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
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≥ 2000																
≥ 1800																
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≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥5/16	≥¼	0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
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≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
0															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L S T) _____

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¾	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	[illegible]	35.4	[illegible]	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
≥ 20000	[illegible]	[illegible]	45.4	45.4	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥ 18000	[illegible]	[illegible]	45.7	45.7	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 16000	[illegible]	46.1	46.1	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 14000	[illegible]	46.7	46.7	46.7	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 12000	[illegible]	49.1	49.1	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 10000	[illegible]	51.2	51.2	51.2	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 9000	[illegible]	1.2	51.2	1.2	51.6	1.6	51.6	1.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 8000	[illegible]	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 7000	[illegible]	52.4	52.8	52.8	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 6000	[illegible]	53.6	53.6	53.6	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 5000	[illegible]	55.0	55.0	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 4500	[illegible]	55.3	55.3	55.3	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 4000	[illegible]	57.0	57.0	57.0	57.4	57.4	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 3500	[illegible]	60.1	60.1	60.1	60.5	60.5	60.5	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 3000	[illegible]	67.0	67.0	67.0	67.4	67.7	67.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 2500	[illegible]	73.7	73.7	73.4	79.0	79.4	79.4	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 2000	[illegible]	81.5	83.2	83.2	83.9	84.2	84.9	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1800	[illegible]	81.8	83.2	83.2	83.9	84.2	84.9	85.6	85.9	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1500	[illegible]	83.2	84.5	84.5	85.2	85.9	86.6	88.0	88.3	88.7	88.7	89.0	89.0	89.3	89.3
≥ 1200	[illegible]	83.9	85.2	85.9	86.6	87.6	88.3	89.7	90.0	90.4	90.4	90.7	90.7	90.7	90.7
≥ 1000	[illegible]	83.9	85.2	85.9	87.3	88.7	89.4	90.7	91.1	91.4	91.4	91.6	91.6	91.6	91.6
≥ 900	[illegible]	83.9	85.2	85.9	87.3	88.7	89.4	90.7	91.1	91.4	91.4	91.6	91.6	91.6	91.6
≥ 800	[illegible]	83.9	85.2	85.9	87.3	88.7	89.4	91.1	91.4	92.1	91.8	91.8	92.1	92.1	92.1
≥ 700	[illegible]	83.9	85.2	85.9	88.0	89.4	90.0	91.8	92.1	92.4	92.4	92.8	92.8	92.6	92.8
≥ 600	[illegible]	83.9	85.2	85.9	88.7	90.0	90.7	92.4	92.8	93.5	93.8	94.2	94.2	94.2	94.2
≥ 500	[illegible]	83.9	85.2	85.9	89.4	90.7	91.8	93.5	93.9	94.5	95.2	95.5	95.8	95.5	95.5
≥ 400	[illegible]	83.9	85.2	85.9	89.7	91.1	92.8	94.5	95.2	95.9	97.3	98.3	98.3	98.3	98.3
≥ 300	[illegible]	83.9	85.2	85.9	89.7	91.1	92.3	94.5	95.2	95.9	97.3	98.3	98.3	98.6	98.6
≥ 200	[illegible]	83.9	85.2	85.9	89.7	91.1	92.8	94.5	95.2	96.2	97.6	98.6	98.6	99.0	99.3
≥ 100	[illegible]	83.9	85.2	85.9	89.7	91.1	92.8	94.5	95.2	96.2	97.6	98.6	99.6	99.0	99.7
≥ 0	[illegible]	83.9	85.2	85.9	89.7	91.1	92.8	94.5	95.2	96.2	97.6	98.6	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS _____

DIFNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 3/16	≥ ¼	≥ 0
NO CEILING	5.	37.2	37.5	37.2	37.5	37.5	37.	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
≥ 20000	5.	47.2	47.5	47.5	47.8	47.8	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.
≥ 18000	5.	48.2	48.5	48.5	48.8	48.8	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 16000	5.	48.2	48.5	48.5	48.8	48.8	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 14000	5.	50.8	51.1	51.1	51.4	51.4	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 12000	5.	51.2	51.5	51.8	52.2	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
≥ 10000	5.	53.2	53.5	53.8	54.2	54.2	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 9000	5.	54.2	54.5	54.8	55.2	55.2	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 8000	5.	56.2	56.	56.8	57.1	57.1	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 7000	1.	57.2	57.5	57.8	58.1	58.5	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 6000	1.	57.2	57.5	57.8	58.1	58.5	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 5000	1.	61.1	61.1	61.1	61.5	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 4500	1.	61.1	61.5	61.8	62.1	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
≥ 4000	1.	63.8	64.1	64.1	64.5	64.5	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 3500	1.	65.8	66.1	66.5	66.8	66.8	67.1	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 3000	1.	71.1	72.1	72.1	72.4	72.4	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 2500	1.	77.1	77.4	77.1	77.7	80.1	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2000	1.	84.4	84.8	83.1	84.7	85.1	85.4	86.1	86.1	86.1	86.4	86.4	86.4	86.4	86.4	86.4
≥ 1800	1.	84.4	84.4	82.4	83.1	84.7	85.1	85.4	86.1	86.1	86.1	86.4	86.4	86.4	86.4	86.4
≥ 1500	2.	85.1	87.7	87.1	83.7	85.7	86.1	86.4	87.0	87.0	88.0	88.4	88.4	88.4	88.4	88.4
≥ 1200	2.	86.7	87.7	83.4	84.1	86.1	86.4	86.7	87.7	87.7	88.7	89.0	89.0	89.0	89.0	89.0
≥ 1000	3.	91.1	91.7	88.4	89.1	87.4	87.7	88.	89.0	89.0	90.0	90.4	90.4	90.4	90.4	90.4
≥ 900	3.	92.4	92.1	89.1	89.7	88.0	88.4	88.7	89.7	89.7	9 .7	91.0	91.0	91.0	91.4	91.4
≥ 800	3.	93.0	92.8	90.4	90.1	88.4	88.7	89.0	90.0	90.0	91.0	91.4	91.4	91.4	91.7	91.7
≥ 700	3.	93.0	92.4	90.4	90.1	88.7	89.4	89.7	90.7	90.7	91.7	92.0	92.0	92.0	92.4	92.4
≥ 600	4.	92.1	92.7	89.7	86.4	89.0	89.7	90.0	91.0	91.0	92.0	92.7	92.7	92.7	93.0	93.0
≥ 500	4.	92.1	92.7	89.7	86.4	89.0	90.0	90.7	92.0	92.0	93.0	93.7	93.7	93.7	94.0	94.0
≥ 400	4.	92.1	92.7	89.7	86.4	89.0	90.0	91.0	93.0	93.4	94.4	95.4	95.4	95.4	95.7	95.7
≥ 300	4.	92.1	92.7	89.7	86.4	89.0	90.0	91.0	93.0	93.4	95.4	96.4	96.4	96.4	97.0	97.0
≥ 200	4.	92.1	92.7	89.7	86.4	89.0	90.0	91.0	93.4	94.0	96.0	97.0	97.0	97.3	98.0	98.0
≥ 100	4.	92.1	92.7	89.7	86.4	89.0	90.0	91.0	93.4	94.0	96.	97.3	97.3	97.3	98.7	98.7
≥ 0	4.	92.1	92.7	89.7	86.4	89.	90.0	91.	93.4	94.0	96.	97.3	97.3	98.	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS ... 1

DIRNAVOCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS 227

DOD NAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS 23-3

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

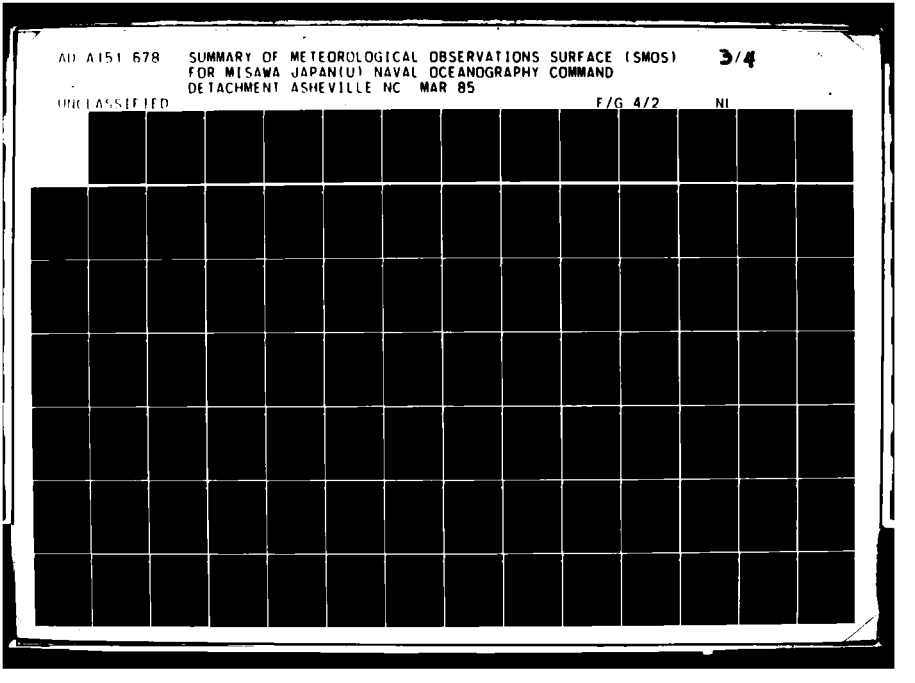
CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
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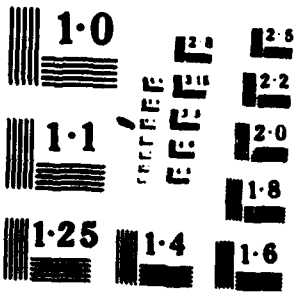
TOTAL NUMBER OF OBSERVATIONS

FORM A-9 (LEATHERETTE) 10-55

AD A151 678 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 3/4
FOR MISAWA JAPAN(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC MAR 85

UNCLASSIFIED F/G 4/2 NL




1·0
1·1
1·25
1·4
1·6
1·8
2·0
2·2
2·5

NAVAL WEATHER SERVICE DETACHMENT, ADDRESS, NS

CEILING VERSUS VISIBILITY

STATION [illegible] STATION NAME [illegible] YEARS APR MONTH 03 HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	[illegible]	37.5	[illegible]	38.4	38.4	38.8	39.2	39.5	39.5	39.9	39.9	39.9	39.9	39.9
≥ 20000	[illegible]	47.2	48.7	[illegible]	51.3	51.3	51.3	51.7	52.1	52.1	52.5	52.5	52.5	52.5	52.5
≥ 18000	[illegible]	47.2	48.7	[illegible]	51.3	51.3	51.3	51.7	52.1	52.1	52.5	52.5	52.5	52.5	52.5
≥ 16000	[illegible]	47.2	48.7	[illegible]	51.3	51.3	51.3	51.7	52.1	52.1	52.5	52.5	52.5	52.5	52.5
≥ 14000	[illegible]	47.5	49.1	[illegible]	51.7	51.7	51.7	52.1	52.5	52.5	52.9	52.9	52.9	52.9	52.9
≥ 12000	[illegible]	[illegible]	51.7	53.2	54.0	54.0	54.4	54.8	55.1	55.1	55.5	55.5	55.5	55.5	55.5
≥ 10000	[illegible]	53.2	55.5	57.0	57.8	57.8	58.2	58.6	58.9	58.9	59.3	59.3	59.3	59.3	59.3
≥ 9000	[illegible]	[illegible]	57.4	58.9	59.7	59.7	60.1	60.5	60.9	60.8	61.2	61.2	61.2	61.2	61.2
≥ 8000	[illegible]	[illegible]	60.1	61.5	62.7	62.7	63.1	63.9	64.3	64.3	64.6	64.6	64.6	64.6	64.6
≥ 7000	1.3	57.8	61.2	62.7	64.3	64.3	64.6	65.4	65.8	65.8	66.2	66.2	66.2	66.2	66.2
≥ 6000	1.3	57.8	61.2	62.7	64.3	64.3	64.6	65.4	65.8	65.8	66.2	66.2	66.2	66.2	66.2
≥ 5000	3.4	61.1	63.3	65.4	67.3	67.3	67.7	68.4	68.8	68.8	69.2	69.2	69.2	69.2	69.2
≥ 4500	4.4	61.2	63.4	65.9	68.8	68.8	69.2	70.0	70.4	70.3	70.7	70.7	70.7	70.7	70.7
≥ 4000	5.2	63.1	67.3	69.2	71.5	71.5	71.9	72.6	73.0	73.0	73.4	73.4	73.4	73.4	73.4
≥ 3500	[illegible]	64.3	69.4	70.3	72.6	72.6	73.0	73.8	74.1	74.1	74.5	74.5	74.5	74.5	74.5
≥ 3000	1.6	71.1	75.7	78.0	80.2	80.2	80.6	81.4	81.8	81.8	82.1	82.1	82.1	82.1	82.1
≥ 2500	2.0	71.9	76.4	79.1	82.9	82.9	83.3	84.0	84.4	84.4	84.8	84.8	84.8	84.8	84.8
≥ 2000	3.5	73.5	78.0	81.0	84.8	84.8	85.2	85.9	86.3	86.3	86.7	86.7	86.7	86.7	86.7
≥ 1800	3.5	73.5	78.0	81.0	84.8	84.8	85.2	85.9	86.3	86.3	86.7	86.7	86.7	86.7	86.7
≥ 1500	4.6	74.5	79.5	82.5	86.3	86.3	86.7	87.5	87.8	87.8	88.2	88.2	88.2	88.2	88.2
≥ 1200	5.0	74.9	79.9	82.9	86.7	86.7	87.1	87.8	88.2	88.2	88.6	88.6	88.6	88.6	88.6
≥ 1000	6.5	76.4	81.4	84.4	88.2	88.2	89.0	89.7	90.1	90.1	90.5	90.5	90.5	90.5	90.5
≥ 900	6.5	76.8	81.9	84.8	88.6	88.6	89.4	90.1	90.5	90.5	90.9	90.9	90.9	90.9	90.9
≥ 800	6.5	77.2	82.1	85.2	89.0	89.4	90.1	90.9	91.3	91.3	91.6	91.6	91.6	91.6	91.6
≥ 700	6.5	77.2	82.1	85.6	89.4	90.1	90.9	91.6	92.0	92.0	92.4	92.4	92.4	92.4	92.4
≥ 600	6.5	77.2	82.1	85.6	89.4	90.1	90.9	91.6	92.0	92.0	92.4	92.4	92.4	92.4	92.4
≥ 500	6.5	77.6	82.9	86.7	90.5	91.3	92.0	93.2	93.5	94.3	94.7	94.7	94.7	94.7	94.7
≥ 400	6.5	77.6	82.9	86.7	90.5	91.6	92.8	93.9	94.3	95.1	95.4	95.4	95.4	95.4	95.4
≥ 300	6.5	77.6	82.9	86.7	90.9	92.4	93.5	94.7	95.1	96.2	96.6	96.6	96.6	96.6	97.0
≥ 200	6.5	77.6	82.9	86.7	90.9	92.4	93.5	95.1	95.8	97.0	97.3	97.3	97.3	97.3	97.7
≥ 100	6.5	77.6	82.9	86.7	91.3	92.8	93.9	96.2	97.0	98.5	98.9	99.2	99.2	99.2	99.6
≥ 0	6.5	77.6	82.9	86.7	91.3	92.8	93.9	96.2	97.0	98.5	98.9	99.2	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible] 243

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT AGANA, GUAM

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING	[illegible]	[illegible]	33.2	34.3	34.7	34.7	35.0	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
≥ 20000	[illegible]	43.7	44.8	48.9	48.4	48.7	49.5	49.8	49.9	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 18000	.1	[illegible]	45.5	49.5	49.5	49.8	51.5	50.9	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 16000	[illegible]	44.7	46.2	49.7	50.2	50.5	51.3	51.6	51.6	52.1	52.0	52.0	52.0	52.0	52.0	52.0
≥ 14000	.1	46.1	47.3	49.8	51.3	51.6	52.4	52.7	52.7	53.1	53.1	53.1	53.1	53.1	53.1	53.1
≥ 12000	.4	48.7	50.5	53.4	54.9	55.2	56.0	56.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 10000	[illegible]	52.4	54.2	57.0	58.5	58.8	59.6	59.9	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 9000	[illegible]	54.2	56.0	58.8	60.3	60.7	61.4	61.7	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 8000	2.	57.8	59.6	62.5	63.9	64.3	65.0	65.3	65.3	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 7000	2.4	58.1	59.9	63.2	64.6	65.0	65.7	66.1	66.1	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 6000	3.	59.0	61.4	64.6	66.1	66.4	67.2	67.5	67.5	67.9	67.9	67.9	67.9	67.9	67.9	67.9
≥ 5000	4.	61.	63.4	66.8	68.2	68.6	69.3	69.7	69.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 4500	[illegible]	62.1	63.9	67.9	69.7	70.0	70.8	71.1	71.5	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 4000	[illegible]	65.0	66.8	70.8	72.9	73.3	74.4	75.1	75.5	76.2	76.2	76.2	76.2	76.2	76.2	76.2
≥ 3500	[illegible]	66.4	68.2	72.2	75.1	75.8	76.9	77.6	78.0	78.7	78.7	78.7	79.1	79.1	79.1	79.1
≥ 3000	3.	71.1	72.9	76.9	79.8	80.5	81.6	82.7	83.0	83.8	83.8	83.8	84.1	84.1	84.1	84.1
≥ 2500	6.4	74.	75.8	79.8	82.7	83.4	84.5	85.6	85.9	86.6	86.6	86.6	87.0	87.0	87.0	87.0
≥ 2000	6.5	75.1	76.9	81.9	83.8	84.5	85.6	86.6	87.0	87.7	87.7	87.7	88.1	88.1	88.1	88.1
≥ 1800	[illegible]	75.1	76.9	[illegible]	83.8	84.5	85.6	86.6	87.0	87.7	87.7	87.7	88.1	88.1	88.1	88.1
≥ 1500	6.7	75.5	77.3	81.2	84.1	84.8	85.9	87.0	87.4	88.1	88.1	88.1	88.5	88.5	88.5	88.5
≥ 1200	[illegible]	75.9	77.6	81.6	84.5	85.2	86.3	87.4	87.7	88.5	88.5	88.5	88.8	88.8	88.8	88.8
≥ 1000	[illegible]	77.3	79.1	83.2	85.9	86.6	87.7	88.8	89.2	89.9	89.9	89.9	90.3	90.3	90.3	90.3
≥ 900	[illegible]	77.6	79.4	83.4	86.2	87.0	88.1	89.2	89.5	90.3	90.3	90.3	90.6	90.6	90.6	90.6
≥ 800	.7	77.6	79.4	83.8	86.6	87.4	88.5	89.5	89.9	90.6	90.6	90.6	91.0	91.0	91.0	91.0
≥ 700	[illegible]	77.6	79.4	84.1	87.0	88.1	89.2	90.3	90.6	91.3	91.3	91.3	91.7	91.7	91.7	91.7
≥ 600	[illegible]	77.6	79.4	84.1	87.0	88.1	89.2	90.3	91.0	92.1	92.4	92.4	92.8	92.8	92.8	92.8
≥ 500	[illegible]	77.6	79.4	84.1	87.4	88.8	90.3	91.3	92.1	93.1	93.5	93.5	93.9	93.9	93.9	93.9
≥ 400	[illegible]	77.6	79.4	84.1	88.1	89.9	91.7	93.1	93.9	95.0	95.3	95.3	95.7	96.0	96.0	96.0
≥ 300	[illegible]	77.6	79.4	84.1	88.1	89.9	91.7	93.5	94.2	95.3	95.7	95.7	96.4	96.8	96.8	96.8
≥ 200	[illegible]	77.6	79.4	84.1	88.1	90.3	92.1	94.2	95.3	96.4	96.8	97.1	97.8	98.2	98.2	98.2
≥ 100	[illegible]	77.6	79.4	84.1	88.1	90.3	92.1	94.2	95.3	96.8	97.5	97.8	99.6	99.3	99.3	99.6
≥ 0	[illegible]	77.6	79.4	84.1	88.1	90.3	92.1	94.2	95.3	96.8	97.5	97.8	98.6	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 277

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ 73-92 YEARS APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

19 HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	[illegible].2	28.6	[illegible].6	28.6	[illegible].6	28.6	28.6	28.6	28.9	28.9	28.9	28.9	28.9	28.9	28.9
≥ 20000	[illegible].6	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 18000	[illegible].6	48.9	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 16000	1.6	47.6	49.5	49.8	49.8	49.8	49.8	49.8	49.8	50.2	50.2	50.2	50.2	50.2	50.2	50.2
≥ 14000	[illegible].1	49.5	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 12000	54.6	52.0	54.6	55.0	55.3	55.7	55.7	55.7	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 10000	[illegible].6	54.2	57.5	57.9	58.2	58.6	58.6	58.6	58.6	59.[illegible]	59.0	59.0	59.0	59.0	59.0	59.0
≥ 9000	[illegible].6	55.0	58.2	58.6	59.0	59.3	59.3	59.3	59.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 8000	[illegible].6	59.0	62.3	63.0	63.4	64.1	64.1	64.1	64.1	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 7000	1.7	59.7	63.0	64.1	64.5	65.2	65.2	65.2	65.2	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 6000	2.6	60.1	63.4	64.5	64.8	65.6	65.6	65.6	65.6	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 5000	3.1	61.3	64.8	65.9	67.1	67.8	67.8	67.8	67.8	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 4500	4.6	63.4	66.7	67.8	69.2	70.0	70.0	70.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 4000	[illegible].1	65.6	68.9	70.0	72.2	73.3	73.3	73.3	73.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3500	7.1	66.2	69.6	70.7	72.9	74.0	74.0	74.0	74.0	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 3000	7.1	71.1	74.7	75.8	78.4	79.5	79.5	79.5	79.5	79.9	79.9	79.9	79.9	79.9	79.9	79.9
> 2500	8.1	76.2	79.9	81.0	83.5	84.6	84.6	84.6	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 2000	8.6	76.9	80.6	81.7	84.6	85.7	85.7	85.7	85.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1800	8.9	76.9	80.6	81.7	84.6	85.7	85.7	85.7	85.7	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1500	9.3	78.0	81.7	82.8	85.7	86.8	86.8	86.8	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1200	9.3	78.0	81.7	82.8	85.7	86.8	86.8	86.8	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1000	9.3	78.4	82.1	83.2	86.1	87.2	87.2	87.2	87.2	87.6	87.6	87.6	87.6	87.6	87.6	87.6
≥ 900	9.6	78.8	82.4	83.9	86.8	87.9	87.9	87.9	87.9	88.3	88.3	88.3	88.3	88.3	88.3	88.3
≥ 800	9.6	79.1	82.6	84.3	87.6	88.6	88.6	88.6	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 700	9.6	79.1	82.8	84.3	88.3	89.4	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 600	9.7	80.2	83.9	85.4	89.7	91.2	91.2	91.2	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 500	11.1	82.6	86.3	87.5	90.5	92.3	92.7	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0
≥ 400	11.1	83.0	86.6	88.0	91.9	94.1	94.9	95.2	95.2	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 300	11.1	84.0	87.7	89.0	93.0	95.2	96.3	97.1	97.1	97.8	97.8	97.8	97.8	98.2	98.2	98.2
≥ 200	11.1	84.0	87.7	89.0	93.0	95.6	96.7	98.2	98.5	99.3	99.3	99.3	99.3	99.6	99.6	99.6
≥ 100	11.1	84.0	87.7	89.0	93.0	95.6	96.7	98.2	98.5	99.3	99.3	99.3	99.6	100.0	100.0	100.0
≥ 0	11.1	84.0	87.7	89.0	93.0	95.6	96.7	98.2	98.5	99.3	99.3	99.3	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 273

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	[illegible]	29.6	28.6	28.6	28.6	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 20000	[illegible]	46.6	46.3	46.6	46.6	46.6	46.6	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 18000	1.0	46.6	46.6	47.0	47.0	47.0	47.0	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 16000	1.0	46.3	47.0	47.4	47.4	47.4	47.4	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 14000	[illegible]	47.7	48.4	48.8	48.8	48.8	48.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 12000	.6	50.5	51.6	51.9	51.9	51.9	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 10000	.1	53.0	54.1	54.4	54.4	54.4	54.4	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 9000	.1	53.4	54.4	55.1	55.1	55.1	55.1	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 8000	1.0	56.5	58.0	58.3	58.7	58.7	58.7	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 7000	2.3	57.6	59.4	59.7	60.1	60.4	60.4	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 6000	3.4	58.7	60.4	60.8	61.1	61.5	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 5000	5.1	61.8	62.9	63.3	64.0	64.3	64.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 4500	5.6	63.3	65.7	66.1	66.8	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 4000	7.0	64.7	67.5	67.8	68.9	69.3	69.3	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 3500	7.8	67.5	70.3	70.7	71.7	72.1	72.1	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 3000	8.1	70.3	73.5	73.8	79.9	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
≥ 2500	8.1	73.2	83.9	84.1	85.2	85.5	85.5	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 2000	4.6	1.6	87.2	87.5	88.6	87.3	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1800	4.6	1.6	87.2	87.5	88.6	87.3	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1500	7.7	83.2	87.3	87.6	88.7	89.4	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1200	7.8	84.5	88.3	88.7	89.8	90.5	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 1000	7.8	84.5	88.3	88.7	89.8	90.5	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 900	7.7	84.6	88.7	89.1	90.1	90.8	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 800	7.1	85.2	89.1	89.4	90.5	91.2	91.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 700	7.2	86.7	90.1	90.5	91.9	92.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 600	7.2	86.6	90.4	90.8	92.2	92.9	94.0	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 500	7.3	86.6	90.5	90.8	92.6	93.3	94.7	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 400	7.3	86.9	90.8	91.2	91.9	94.4	95.1	96.8	97.2	97.5	97.9	97.9	98.2	98.2	98.2	98.2
≥ 300	7.9	86.9	90.8	91.9	94.7	95.8	97.5	98.2	98.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7
≥ 200	7.9	86.9	90.8	91.9	95.1	96.1	97.9	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0
≥ 100	7.9	86.9	90.8	91.9	95.1	96.1	97.9	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0
0	7.9	86.9	90.8	91.9	95.1	96.1	97.9	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 293

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH APR

HOURS (L.S.T.) 13

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.8	31.7	31.7	31.7	31.7	31.7	32.0	32.0	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
> 20000	.1	.4	.4	.4	48.4	48.4	48.4	48.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 18000	.1	.4	.4	.4	48.4	48.4	48.4	48.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 16000	.4	.4	.4	48.8	48.8	48.8	48.8	49.1	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5
≥ 14000	.8	50.2	50.2	50.2	50.2	50.2	50.5	50.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 12000	.8	51.6	52.0	52.0	52.0	52.0	52.3	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 10000	.1	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
≥ 9000	.1	56.6	56.9	56.9	56.9	56.9	57.3	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 8000	.1	57.4	57.8	57.8	57.8	57.8	60.1	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
≥ 7000	5.4	5.8	6.1	6.1	6.1	60.1	60.5	60.5	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 6000	6.5	6.9	61.2	61.2	61.2	61.2	61.6	61.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 5000	7.3	62.6	63.7	64.1	64.1	64.1	64.4	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
≥ 4500	7.7	64.4	65.5	65.8	65.8	65.8	66.2	66.2	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 4000	7.7	65.5	66.6	67.3	67.3	67.3	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 3500	8.1	70.1	71.2	72.2	72.2	72.2	72.6	72.6	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
≥ 3000	8.7	77.6	78.8	80.1	80.4	80.4	80.8	80.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 2500	9.7	82.9	84.7	85.8	86.1	86.5	86.8	87.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
≥ 2000	10.1	84.3	86.1	87.2	87.5	87.9	88.3	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	10.1	84.3	86.1	87.2	87.5	87.9	88.3	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500	10.1	84.3	86.1	87.2	87.5	87.9	88.3	88.6	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1200	10.4	85.1	86.9	87.9	88.3	88.6	89.0	89.3	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1000	16.5	86.1	87.9	89.0	89.3	89.7	90.4	90.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 900	17.2	86.9	88.6	89.7	90.0	90.4	91.1	91.5	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 800	17.9	87.5	89.3	90.8	91.5	91.8	92.5	92.9	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 700	17.9	87.9	89.7	91.5	92.2	92.5	93.2	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 600	17.9	87.9	89.7	91.5	92.5	92.9	93.6	94.3	94.7	94.7	95.0	95.0	95.0	95.0	95.0	95.0
≥ 500	17.9	87.9	89.7	91.5	92.5	92.9	93.6	95.0	95.4	95.4	95.7	95.7	95.7	95.7	95.7	95.7
≥ 400	17.9	88.3	90.0	91.8	94.0	94.7	95.4	96.8	97.2	97.2	97.9	97.9	97.9	97.9	97.9	97.9
≥ 300	17.9	88.3	90.0	91.8	94.0	94.7	95.4	96.8	97.2	97.2	97.9	97.9	97.9	97.9	97.9	97.9
≥ 200	17.9	88.3	90.0	92.2	94.3	95.4	96.1	97.9	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9
≥ 100	17.9	88.3	90.0	92.2	94.3	95.4	96.1	98.2	98.6	98.6	99.3	99.3	100.0	100.0	100.0	100.0
≥ 0	17.9	88.3	90.0	92.2	94.3	95.4	96.1	98.2	98.6	98.6	99.3	99.3	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 221

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ 37-42 YEARS _____ APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

16 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	71.0	35.1	35.1	35.1	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
≥ 20000	71.2	71.2	71.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.6	52.6	52.6
≥ 18000	71.6	52.3	52.3	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	53.0	53.0	53.0
≥ 16000	72.3	53.0	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.7	53.7	53.7
≥ 14000	74.7	55.8	55.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.5	56.5	56.5
≥ 12000	75.2	57.5	57.5	59.0	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.7	59.7	59.7
≥ 10000	76.2	59.3	59.7	60.7	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.4	61.4	61.4
≥ 9000	76.4	61.1	62.5	62.5	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	63.2	63.2	63.2
≥ 8000	77.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	66.0	66.0	66.0
≥ 7000	77.2	64.9	66.3	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.0	67.0	67.0
≥ 6000	77.3	66.1	66.7	66.7	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.7	67.7	67.7
≥ 5000	77.7	67.4	69.1	69.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.5	70.5	70.5
≥ 4500	78.1	69.6	71.5	71.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.9	71.9	71.9
≥ 4000	78.6	71.6	73.3	74.4	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.4	75.4	75.4
≥ 3500	78.9	73.7	75.4	76.8	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.9	77.9	77.9
≥ 3000	79.5	77.5	79.7	81.8	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.8	82.8	82.8
≥ 2500	81.3	80.4	82.5	84.6	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.6	85.6	85.6
≥ 2000	82.3	82.1	84.2	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.4	87.4	87.4
≥ 1800	82.3	82.1	84.2	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.4	87.4	87.4
≥ 1500	82.7	82.5	84.9	87.0	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.1	88.1	88.1
≥ 1200	82.7	82.5	85.3	87.4	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.4	88.4	88.4
≥ 1000	84.4	83.2	86.1	88.1	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	89.1	89.1	89.1
≥ 900	84.7	83.5	86.3	88.4	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.5	89.5	89.5
≥ 800	84.7	83.5	86.3	88.4	89.1	89.1	89.1	89.1	89.5	89.5	89.5	89.5	89.5	89.8	89.8	89.8
≥ 700	85.1	83.9	87.0	89.8	90.5	90.5	90.5	90.5	90.9	90.9	90.9	90.9	90.9	91.2	91.2	91.2
≥ 600	85.4	84.2	87.4	90.2	91.2	91.2	91.2	91.9	92.3	92.3	92.3	92.3	92.3	92.6	92.6	92.6
≥ 500	85.8	84.6	87.7	90.9	92.3	92.6	92.6	93.3	94.0	94.4	94.4	94.4	94.4	94.7	94.7	94.7
≥ 400	85.8	84.6	87.7	90.9	92.3	92.6	92.6	93.3	94.0	94.4	94.4	94.4	94.4	94.7	94.7	94.7
≥ 300	85.8	84.6	87.7	90.9	93.3	93.7	93.7	95.1	95.8	96.1	96.1	96.1	96.1	96.5	96.5	96.5
≥ 200	85.8	84.6	87.7	90.9	93.7	94.0	94.0	95.8	96.5	96.8	97.5	97.5	97.5	97.9	97.9	97.9
≥ 100	85.8	84.6	87.7	90.9	93.7	94.0	94.0	95.8	96.5	96.8	97.9	97.9	97.9	98.6	98.6	99.3
≥ 0	85.8	84.6	87.7	90.9	93.7	94.0	94.0	95.8	96.5	96.8	97.9	97.9	97.9	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 285

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

01 HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	54.	4 .	41.1	41.1	41.1	41.1	41.1	41.1	41.4	41.4	41.4	41.4	41.4	41.8	41.8	41.
≥ 20000	4.	1.	53.6	53.2	53.6	53.6	53.6	53.6	54.0	54.0	54.0	54.0	54.0	54.4	54.4	54.4
≥ 18000	4.	1.	53.6	53.6	54.	54.	54.0	54.0	54.4	54.4	54.4	54.4	54.4	54.8	54.8	54.8
≥ 16000	4.	1.	53.6	53.6	54.	54.	54.0	54.0	54.4	54.4	54.4	54.4	54.4	54.	54.8	54.8
≥ 14000	4.	2.	54.0	54.0	55.1	55.5	55.5	55.5	55.9	55.9	55.9	55.9	55.9	56.3	56.3	56.3
≥ 12000	4.	2.	54.1	54.1	56.3	56.7	56.7	56.7	57.0	57.0	57.0	57.0	57.0	57.4	57.4	57.4
≥ 10000	4.	2.	55.9	55.9	58.1	58.5	60.5	60.5	60.8	60.8	60.8	60.8	60.8	61.2	61.2	61.2
≥ 9000	1.	58.6	61.	62.4	62.7	63.5	63.5	63.5	63.9	63.9	63.9	63.9	63.9	64.3	64.3	64.3
≥ 8000	3.	61.2	64.3	65.0	65.4	66.2	66.2	66.2	66.5	66.5	66.5	66.5	66.5	66.9	66.9	66.9
≥ 7000	4.	62.	65.0	65.8	66.2	66.2	66.9	66.9	67.3	67.3	67.3	67.3	67.3	67.7	67.7	67.7
≥ 6000	4.4	62.4	65.4	66.2	66.6	67.7	67.7	67.7	68.1	68.1	68.1	68.1	68.1	68.4	68.4	68.4
≥ 5000	4.4	65.4	68.4	69.2	70.0	70.7	70.7	70.7	71.1	71.1	71.1	71.1	71.1	71.5	71.5	71.5
≥ 4500	4.	66.2	71.0	71.7	71.5	72.2	72.2	72.2	72.6	72.6	72.6	72.6	72.6	73.0	73.0	73.0
≥ 4000	4.8	70.0	73.0	73.8	74.6	75.7	75.7	75.7	76.1	76.1	76.1	76.1	76.1	76.4	76.4	76.4
≥ 3500	4.8	71.2	74.9	75.7	77.2	78.0	78.0	78.0	78.3	78.3	78.3	78.3	78.3	78.7	78.7	78.7
≥ 3000	5.2	76.3	79.7	79.5	81.0	81.8	81.8	81.8	82.1	82.1	82.1	82.1	82.1	82.5	82.5	82.5
≥ 2500	4.	77.2	80.6	81.4	82.9	83.7	83.7	83.7	84.0	84.0	84.0	84.0	84.0	84.4	84.4	84.4
≥ 2000	4.	79.1	82.5	83.3	84.8	85.6	85.6	85.6	85.9	85.9	85.9	85.9	85.9	86.3	86.3	86.3
≥ 1800	4.	79.1	82.5	83.3	84.8	85.6	85.6	85.6	85.9	85.9	85.9	85.9	85.9	86.3	86.3	86.3
≥ 1500	4.	79.5	82.9	83.7	85.2	86.3	86.3	86.3	86.7	86.7	86.7	86.7	86.7	87.1	87.1	87.1
≥ 1200	4.	79.9	83.3	84.0	85.6	86.7	86.7	86.7	87.1	87.1	87.1	87.1	87.1	87.5	87.5	87.5
≥ 1000	4.	79.9	83.7	85.2	87.5	88.6	88.6	88.6	89.0	89.0	89.0	89.0	89.0	89.4	89.4	89.4
≥ 900	4.8	79.9	83.7	85.6	87.8	89.	89.0	89.0	89.4	89.4	89.4	89.4	89.4	89.7	89.7	89.7
≥ 800	4.8	79.9	83.7	85.9	88.2	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7	90.1	90.1	90.1
≥ 700	4.8	79.9	83.7	86.3	88.6	89.7	89.7	90.1	90.5	90.5	90.5	90.5	90.5	90.9	90.9	90.9
≥ 600	4.	79.9	83.7	86.7	89.0	90.1	90.1	90.5	91.3	91.3	91.3	91.3	91.3	91.6	91.6	91.6
≥ 500	4.8	79.9	83.7	87.1	89.7	91.3	91.3	91.6	92.4	92.4	92.4	92.4	92.4	92.8	92.8	92.8
≥ 400	4.8	80.2	84.4	88.6	91.6	93.5	93.5	94.7	95.4	95.4	95.4	95.4	95.4	95.8	96.2	96.2
≥ 300	4.8	80.6	84.8	89.0	92.4	94.3	94.3	95.4	96.2	96.2	96.6	97.0	97.0	97.3	97.7	97.7
≥ 200	4.8	80.6	84.8	89.1	93.2	95.1	95.1	96.2	97.0	97.3	97.7	98.1	98.1	98.5	98.9	98.9
≥ 100	4.8	80.6	84.8	89.0	93.2	95.1	95.4	96.6	97.3	97.7	98.5	98.9	99.2	99.6	100.0	100.0
≥ 0	4.8	80.6	84.8	89.0	93.2	95.1	95.4	96.6	97.3	97.7	98.5	98.9	99.2	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS ____ 43

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH LO

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS ALL

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	0
NO CEILING		33.4	33.	34.1	34.	34.	34.5	34.	34.7	34.8	34.8	34.8	34.	34.	34.	34.9
≥ 20000	1.	47.2	48.5	50.2	51.7	52.	52.8	52.1	52.7	52.4	52.4	52.4	52.	52.5	52.5	52.5
≥ 18000	2.1	47.4	48.7	50.5	52.	52.	53.1	52.7	53.4	53.1	53.0	53.0	53.0	53.0	53.0	53.0
≥ 16000	2.4	47.8	49.1	50.8	52.4	52.	53.4	53.0	53.8	53.5	53.4	53.4	53.4	53.4	53.4	53.4
≥ 14000	3.7	49.3	50.7	52.4	54.1	54.	55.1	54.3	55.2	54.9	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000	4.6	51.4	52.9	54.8	56.5	56.	57.6	56.8	57.7	57.4	57.3	57.3	57.3	57.4	57.4	57.4
≥ 10000	5.2	54.3	55.8	57.7	59.5	59.	60.7	59.9	60.8	60.5	60.4	60.4	60.4	60.5	60.5	60.5
≥ 9000	5.4	55.2	56.8	58.7	60.5	60.	61.7	60.9	61.8	61.5	61.4	61.4	61.4	61.5	61.5	61.5
≥ 8000	5.7	56.6	58.2	60.1	62.0	62.	63.2	62.4	63.3	63.0	62.9	62.9	62.9	63.0	63.0	63.0
≥ 7000	6.1	58.0	59.6	61.6	63.5	63.	64.8	64.0	64.9	64.6	64.5	64.5	64.5	64.6	64.6	64.6
≥ 6000	6.7	59.4	61.2	63.2	65.2	65.	66.5	65.7	66.6	66.3	66.2	66.2	66.2	66.3	66.3	66.3
≥ 5000	6.9	62.3	64.2	66.4	68.4	68.	69.8	69.0	69.9	69.6	69.5	69.5	69.5	69.6	69.6	69.6
≥ 4500	7.7	63.7	65.7	67.9	69.9	69.	71.3	70.5	71.4	71.1	71.0	71.0	71.0	71.1	71.1	71.1
≥ 4000	8.9	66.1	68.2	70.5	72.6	72.	74.0	73.2	74.1	73.8	73.7	73.7	73.7	73.8	73.8	73.8
≥ 3500	9.6	68.2	70.3	72.8	74.9	74.	76.3	75.5	76.4	76.1	76.0	76.0	76.0	76.1	76.1	76.1
≥ 3000	10.2	73.1	75.4	78.1	80.4	80.	82.0	81.2	82.1	81.8	81.7	81.7	81.7	81.8	81.8	81.8
≥ 2500	10.7	76.5	79.0	81.8	84.2	84.	85.8	85.1	86.0	85.7	85.6	85.6	85.6	85.7	85.7	85.7
≥ 2000	11.0	78.3	81.0	83.9	86.4	86.	88.2	87.4	88.3	88.0	87.9	87.9	87.9	88.0	88.0	88.0
≥ 1800	11.2	78.9	81.6	84.5	87.0	87.	88.8	88.0	88.9	88.6	88.5	88.5	88.5	88.6	88.6	88.6
≥ 1500	11.3	79.1	82.0	84.9	87.5	87.	89.3	88.5	89.4	89.1	89.0	89.0	89.0	89.1	89.1	89.1
≥ 1200	11.5	79.4	82.3	85.2	87.8	87.	89.6	88.8	89.7	89.4	89.3	89.3	89.3	89.4	89.4	89.4
≥ 1000	12.1	80.1	83.0	86.0	88.6	88.	90.4	89.6	90.5	90.2	90.1	90.1	90.1	90.2	90.2	90.2
≥ 900	12.4	80.5	83.5	86.5	89.1	88.	90.9	90.1	91.0	90.7	90.6	90.6	90.6	90.7	90.7	90.7
≥ 800	12.6	80.8	83.8	86.8	89.4	89.	91.2	90.4	91.3	91.0	90.9	90.9	90.9	91.0	91.0	91.0
≥ 700	13.0	81.1	84.1	87.1	89.8	89.	91.6	90.8	91.7	91.4	91.3	91.3	91.3	91.4	91.4	91.4
≥ 600	13.3	81.4	84.4	87.4	90.1	90.	91.9	91.1	92.0	91.7	91.6	91.6	91.6	91.7	91.7	91.7
≥ 500	13.6	81.6	84.7	87.7	90.4	90.	92.3	91.5	92.4	92.1	92.0	92.0	92.0	92.1	92.1	92.1
≥ 400	13.8	81.7	84.9	88.2	91.0	91.	92.9	92.1	93.0	92.7	92.6	92.6	92.6	92.7	92.7	92.7
≥ 300	13.8	81.8	85.0	88.4	91.2	91.	93.1	92.3	93.2	92.9	92.8	92.8	92.8	92.9	92.9	92.9
≥ 200	13.8	81.8	85.0	88.4	91.2	91.	93.1	92.3	93.2	92.9	92.8	92.8	92.8	92.9	92.9	92.9
≥ 100	13.8	81.8	85.0	88.4	91.2	91.	93.1	92.3	93.2	92.9	92.8	92.8	92.8	92.9	92.9	92.9
0	13.8	81.8	85.0	88.4	91.2	91.	93.1	92.3	93.2	92.9	92.8	92.8	92.8	92.9	92.9	92.9

TOTAL NUMBER OF OBSERVATIONS _____ 2182

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MAY | NORTH | HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		71.	37.	75.4	37.	37.2	37.6	38.0	38.	38.0	38.	38.0	38.0	38.	38.	38.
≥ 20000		1.	47.	47.1	48.	48.	48.	48.	48.	48.6	48.6	48.6	48.6	50.0	50.0	50.
≥ 18000		41.	47.	47.1	48.	48.	48.3	48.6	48.	48.6	48.6	48.6	48.6	50.0	50.0	50.
≥ 16000			47.	47.5	49.3	49.3	49.6	50.	50.	50.	50.	50.0	50.0	50.4	50.4	50.
≥ 14000		3.1	47.	47.	51.	51.	51.7	51.1	51.	51.1	51.1	51.1	51.1	51.	51.5	51.5
≥ 12000		43.	47.	1.5	52.	3.3	53.7	54.	54.	54.	54.	54.2	54.2	54.4	54.4	54.4
≥ 10000		47.	51.	53.7	55.	55.	55.9	56.2	56.	56.2	56.2	56.2	56.2	56.6	56.6	56.6
≥ 9000			53.	55.	56.	56.9	57.3	57.7	57.	57.7	57.7	57.7	57.7	58.	58.	58.
≥ 8000			5.	5.	59.	59.9	60.2	60.6	60.	60.6	60.6	60.6	60.6	61.	61.	61.
≥ 7000			5.	5.	59.	59.9	60.2	60.6	60.	60.6	60.6	60.6	60.6	61.	61.	61.
≥ 6000			5.	5.	59.	59.9	60.	60.6	60.	60.6	60.6	60.6	60.6	61.0	61.0	61.0
≥ 5000			5.	5.	59.	59.9	60.	60.6	60.	60.6	60.6	60.6	60.6	61.0	61.0	61.0
≥ 4500			5.	5.	61.7	63.9	63.9	64.2	64.6	64.6	64.6	64.6	64.6	65.0	65.0	65.0
≥ 4000			5.	5.	61.7	63.9	63.9	64.2	64.6	64.6	64.6	64.6	64.6	65.0	65.0	65.0
≥ 3500	1.	7.	61.	61.	63.	66.	66.	66.4	66.	66.	66.	66.8	66.8	67.2	67.2	67.2
≥ 3000			62.	65.0	67.	67.2	67.6	67.9	67.	67.	67.9	67.9	67.9	68.3	68.3	68.3
≥ 2500		1.	63.	67.5	70.	70.	70.8	71.2	71.	71.2	71.2	71.2	71.2	71.5	71.5	71.5
≥ 2000		4.	6.	73.	73.	73.7	74.1	74.5	74.	74.8	74.5	74.8	74.8	75.2	75.2	75.
≥ 1800		6.	7.	76.	76.	76.6	77.0	77.7	77.	78.1	78.	78.1	78.1	78.5	78.5	78.5
≥ 1500		6.	7.	76.	76.	76.6	77.0	77.7	77.	78.1	78.	78.1	78.1	78.5	78.5	78.5
≥ 1200		6.	7.	77.	77.	77.4	77.7	78.5	78.	79.2	79.	79.2	79.2	79.6	79.6	79.6
≥ 1000		67.	71.	74.	78.	79.2	79.	80.	80.	80.7	80.	80.7	80.7	81.0	81.0	81.
≥ 900		67.	71.	74.	79.	79.	79.9	81.	81.	81.4	81.	81.4	81.4	81.	81.8	81.
≥ 800	1.	68.	72.	75.	80.	1.	81.	82.	82.	82.	82.	82.9	82.9	83.	83.2	83.
≥ 700	1.	68.	72.	75.	80.	81.	81.	82.	82.	83.	83.	83.2	83.2	83.	83.6	83.
≥ 600	1.	69.	73.	76.	81.	82.	82.	83.	83.	83.	83.	83.9	83.9	84.	84.3	84.
≥ 500	1.	69.	77.	77.	82.	83.	83.	85.	85.	85.	85.	85.4	85.4	85.	85.8	85.8
≥ 400	1.	69.	77.	77.	82.	83.	83.	85.	85.	86.	86.	86.1	86.1	86.	86.5	86.5
≥ 300	1.	69.	74.	77.	82.	84.	85.	88.	88.	89.	89.	89.8	89.8	90.	90.2	90.
≥ 200	1.	69.	74.	77.	83.	85.	86.	91.	92.	92.	92.	92.7	92.7	93.	93.1	93.
≥ 100	1.	69.	74.	77.	83.	85.	87.	91.	92.	93.	94.	95.3	95.6	96.	97.5	97.8
≥ 0	1.	69.	74.	77.	83.	85.	87.	91.	92.	93.	94.	95.3	95.6	96.	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS 2 74

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING			31.1								34.5	36.5		36.3	36.5	
≥ 20000			41.5		45.2	45.2	46.4	47.3	47.2	47.2	47.3	47.3	47.3	47.3	47.3	47.7
≥ 18000			41.5		45.2	45.2	46.4	47.3	47.2	47.2	47.3	47.3	47.3	47.3	47.3	47.7
≥ 16000			41.5		45.2	46.2	47.3	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	48.0
≥ 14000			41.5		45.2	46.2	47.3	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	48.0
≥ 12000			44.2		48.2	49.2	50.5	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.3
≥ 10000			47.2		51.2	52.2	53.5	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.3
≥ 9000			48.1		52.1	53.1	54.5	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.3
≥ 8000			50.3		54.3	55.3	56.7	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.5
≥ 7000			54.7		58.7	59.7	61.1	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.9
≥ 6000			57.7		61.7	62.8	64.2	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.0
≥ 5000			61.3		65.4	66.4	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.6
≥ 4500			62.4		66.8	67.8	69.2	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	70.0
≥ 4000			63.5		67.9	68.9	70.3	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.1
≥ 3500			65.2		69.6	70.6	72.0	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.8
≥ 3000			67.4		71.8	72.8	74.2	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.0
≥ 2500			71.3		75.7	76.8	78.2	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.0
≥ 2000			73.2		77.6	78.7	80.1	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.9
≥ 1800			73.6		78.0	79.1	80.5	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.3
≥ 1500			74.2		78.6	79.7	81.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.9
≥ 1200			75.1		79.5	80.6	82.0	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.8
≥ 1000			76.2		80.6	81.7	83.1	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.9
≥ 900			77.5		81.9	83.0	84.4	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	85.2
≥ 800			78.4		82.8	83.9	85.3	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	86.1
≥ 700			79.8		84.2	85.3	86.7	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.5
≥ 600			82.3		86.7	87.8	89.2	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.0
≥ 500			84.1		88.5	89.6	91.0	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.8
≥ 400			85.6		90.0	91.1	92.5	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.3
≥ 300			88.5		92.9	94.0	95.4	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.2
≥ 200			91.0		95.4	96.5	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.7
≥ 100			92.2		96.6	97.7	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.9
≥ 0			92.2		96.6	97.7	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET 5605

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS - L S T

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	< ½	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

DMNAVOCEANMET 3305

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
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≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES) ≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥5/16	≥¼	<¼
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS 2013

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH J

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS 1 ST

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0	
NO CEILING	•	1 • •	2 • •	•	1 •	1 •	1 • •	1 • •	2 • •	2 • •	2 • •	2 • •	2 • •	2 • •	2 • •
≥ 20000	•	4 • •	2 • 7	3 • •	3 •	•	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •
≥ 18000	•	4 • •	2 • 7	3 • •	3 •	4 •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •
≥ 16000	•	4 • •	2 • 7	3 • •	3 •	4 •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •	3 • •
≥ 14000	•	• 4	2 • 7	3 • 7	3 1 •	3 1 •	3 3 •	3 3 •	3 3 •	3 3 •	3 3 •	3 3 •	3 3 •	3 3 •	3 3 •
≥ 12000	•	7 • •	3 1 •	4 • 2	3 4 •	4 • 1	3 4 •	3 5 •	3 5 •	3 5 •	3 5 •	3 5 •	3 5 •	3 6 •	3 6 •
≥ 10000	•	• 6	3 1 •	4 • 1	3 5 •	3 5 •	3 6 •	3 7 •	3 7 •	3 7 •	3 7 •	3 7 •	3 7 •	3 7 •	3 7 •
≥ 9000	•	• 7	3 1 •	4 • 1	3 5 •	3 6 •	3 7 •	3 8 •	3 8 •	3 8 •	3 8 •	3 8 •	3 8 •	3 9 •	3 9 •
≥ 8000	•	• 8	4 • 1	3 5 •	3 6 •	3 6 •	3 7 •	3 8 •	3 8 •	3 8 •	3 8 •	3 8 •	3 8 •	3 9 •	3 9 •
≥ 7000	•	1 • •	3 5 •	4 • 1	3 7 •	3 7 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 6000	•	1 • 7	3 5 •	4 • 1	3 7 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 5000	•	1 • 8	3 6 •	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 4500	•	2 • 1	3 6 •	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 4000	1 •	2 • 1	3 6 •	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 3500	1 •	2 • 1	3 6 •	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 3000	1 •	2 • 1	3 6 •	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 2500	•	2 • 1	4 • 1	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 2000	•	2 • 1	4 • 1	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 1800	•	2 • 1	4 • 1	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 1500	•	2 • 1	4 • 1	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 1200	•	2 • 1	4 • 1	4 • 1	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 1000	•	2 • 1	4 • 2	4 • 2	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 900	•	6 • 1	4 • 2	4 • 2	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 800	•	4 • 1	4 • 4	4 • 4	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 700	•	4 • 1	4 • 4	4 • 4	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 600	•	4 • 2	4 • 5	4 • 6	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 500	•	4 • 4	4 • 1	4 • 2	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 400	•	4 • 4	5 • 1	4 • 3	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 300	1 •	4 • 1	5 • 1	4 • 6	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 200	1 •	4 • 4	5 • 1	5 • 7	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 100	1 •	4 • 4	5 • 2	5 • 4	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •
≥ 0	1 •	4 • 4	5 • 2	5 • 4	3 8 •	3 8 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •	3 9 •

TOTAL NUMBER OF OBSERVATIONS 3

USCOMM-ICEASHEET

CEILING VERSUS VISIBILITY

STA. NO. | STATION NAME | YEARS | MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS 2?4

DNAVOCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING			23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
≥ 20000		34.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
≥ 18000		34.5	36.2	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
≥ 16000		34.5	36.5	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
≥ 14000		34.5	36.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
≥ 12000		42.4	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 10000	.1	1.1	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 9000	.1	.1	44.3	46.3	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 8000		47.1	48.3	48.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 7000		49.3	49.6	50.1	49.8	49.8	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
≥ 6000	.2	49.5	49.8	49.8	49.5	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 5000	.5	52.3	52.0	51.8	51.8	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 4500	.7	53.1	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 4000	.9	54.0	54.0	54.0	54.0	54.0	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 3500		55.6	56.1	56.1	55.7	55.7	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 3000	.2	57.0	57.5	57.5	57.2	57.2	57.5	57.5	57.5	57.5	58.5	58.5	58.5	58.5	58.5	58.5
> 2500	.7	60.1	60.7	60.9	61.0	61.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
> 2000	.8	62.5	62.9	61.7	62.7	62.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
> 1800	.8	62.5	62.9	61.7	62.7	62.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
> 1500	.8	67.1	62.6	62.4	63.4	63.4	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
> 1200	.8	67.1	62.6	63.1	64.1	64.1	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
> 1000	.8	67.1	61.7	64.5	65.5	65.5	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 900	.8	67.1	61.7	64.5	65.5	65.5	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
≥ 800	57.1	66.9	64.0	64.8	65.9	65.9	66.2	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 700	.8	67.1	63.4	66.6	67.9	67.9	68.3	68.6	68.6	68.6	69.0	69.0	69.0	69.0	69.0	69.0
≥ 600	.8	62.7	65.9	71.0	71.4	71.4	71.8	72.1	72.1	72.1	72.5	72.5	72.5	72.5	72.5	72.5
≥ 500	4.4	64.8	68.3	72.8	74.2	74.9	75.3	75.6	75.6	75.6	76.0	76.0	76.0	76.0	76.0	76.0
≥ 400	4.1	66.6	70.4	75.3	77.7	78.8	79.1	80.1	80.5	80.5	80.8	80.8	80.8	80.8	80.8	80.8
≥ 300	4.5	67.2	71.1	77.3	80.1	81.2	82.2	84.0	84.7	84.7	85.0	85.0	85.0	85.0	85.0	85.0
≥ 200	4.5	67.3	71.4	78.1	83.3	84.7	85.7	89.9	92.0	92.7	93.7	94.1	94.4	94.4	94.4	94.4
≥ 100	4.5	67.3	71.4	78.1	83.6	85.4	86.4	92.0	94.1	96.2	98.3	98.6	99.0	99.3	99.7	99.7
≥ 0	.5	67.3	71.4	79.1	83.6	85.4	86.4	92.0	94.1	96.2	98.3	98.6	99.0	99.7	99.7	0.0

TOTAL NUMBER OF OBSERVATIONS

FURNAVOCEANMET 9MOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	< ¼			
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, N.C.

CEILING VERSUS VISIBILITY

STATION NO. | STATION NAME | YEARS | MONTH: JUN | HOURS (L.S.T.): 09

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	•	1[illegible].3	1[illegible].4	17.4	1[illegible].4	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.
≥ 20000	•	27.2	28.4	29.7	29.1	29.3	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
≥ 18000	•	27.6	28.7	29.1	29.5	29.9	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
≥ 16000	•	28.4	29.5	29.9	30.2	30.	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 14000	•	29.1	30.2	31.0	31.7	31.7	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
≥ 12000	•	31.1	32.1	32.5	33.4	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 10000	1.0	32.1	33.4	34.7	35.5	35.5	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
≥ 9000	1.0	32.2	34.3	35.5	36.6	37.7	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
≥ 8000	•	6[illegible]	34.1	36.2	40.7	41.8	41.8	41.8	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 7000	•	36.6	38.4	39.6	4[illegible].7	41.4	42.5	42.5	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 6000	•	36.6	38.4	39.6	4[illegible].7	41.4	42.5	42.5	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 5000	•	37.7	39.9	41.0	42.2	42.9	44.0	44.2	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
≥ 4500	•	38.1	40.3	41.4	42.5	43.7	44.4	44.4	44.6	44.8	44.8	44.8	44.8	44.8	44.8	44.8
≥ 4000	•	4[illegible].7	42.9	44.1	45.2	46.3	47.4	47.8	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 3500	•	41.[illegible]	44.[illegible]	45.2	46.3	47.4	48.5	48.9	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 3000	1.[illegible]	43.3	45.5	46.6	48.1	49.3	50.4	50.8	51.1	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 2500	4.4	4[illegible].2	48.5	50.0	51.5	52.6	53.7	54.1	54.5	54.9	54.9	55.2	55.2	55.2	55.2	55.2
≥ 2000	4[illegible]	47.4	5[illegible]	51.5	53.0	54.5	55.6	56.0	56.3	56.7	56.7	57.1	57.1	57.1	57.1	57.1
≥ 1800	4[illegible]	47.8	5[illegible]	51.5	53.[illegible]	54.5	56.6	56.[illegible]	56.3	56.7	56.7	57.1	57.1	57.1	57.1	57.1
≥ 1500	4[illegible]	48.9	51.1	52.6	54.1	55.6	56.7	57.1	57.5	57.8	57.8	58.2	58.2	58.2	58.2	58.2
≥ 1200	•	49.6	51.[illegible]	53.4	54.[illegible]	56.3	57.5	57.8	58.2	58.6	58.6	59.0	59.0	59.0	59.0	59.0
≥ 1000	•	51.[illegible]	53.7	55.2	56.7	58.2	59.3	59.7	60.1	60.5	60.5	60.8	60.8	60.8	60.8	60.8
≥ 900	1.[illegible]	53.4	55.6	57.1	58.6	[illegible].1	61.6	61.9	62.3	62.3	62.3	62.7	62.7	62.7	62.7	62.7
≥ 800	2.[illegible]	53.7	56.0	57.5	59.[illegible]	60.5	61.6	61.9	62.3	62.7	62.7	63.1	63.1	63.1	63.1	63.1
≥ 700	2.[illegible]	54.5	56.7	58.6	60.[illegible]	61.9	63.1	63.4	63.8	64.2	64.2	64.6	64.6	64.6	64.6	64.6
≥ 600	4.1	56.3	58.[illegible]	6[illegible].8	63.8	65.3	66.4	66.8	67.2	67.5	67.5	67.9	67.9	67.9	67.9	67.9
≥ 500	4.[illegible]	57.1	6[illegible].1	62.7	66.8	68.3	69.8	70.9	71.3	71.6	71.6	72.0	72.0	72.0	72.0	72.0
≥ 400	5.6	57.8	61.2	64.2	7[illegible].2	71.6	73.1	75.8	76.1	76.5	76.5	76.9	76.9	76.9	76.9	76.9
≥ 300	•	58.2	62.7	66.4	74.6	76.5	78.4	81.7	82.8	84.[illegible]	84.[illegible]	84.3	84.3	84.3	84.3	84.3
≥ 200	5[illegible].3	59.[illegible]	62.7	66.4	76.1	79.5	83.2	88.1	91.0	93.3	93.7	94.0	94.0	94.[illegible]	94.[illegible]	94.[illegible]
≥ 100	•	59.[illegible]	62.7	66.4	76.5	80.2	84.3	90.[illegible]	94.4	96.6	97.4	98.5	98.5	100.0	100.0	100.0
≥ 0	5[illegible].3	59.0	62.7	66.4	76.5	80.2	84.3	90.[illegible]	94.4	96.6	97.4	98.5	98.5	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1	12.7	13.3	1 .7	14.4	14.4	14.4	14.9	14.9	14.3	15.1	15.1	15.1	15.5	15.5	15.8
≥ 20000		16.5	17.6	1 .7	19.8	19.8	19.8	20.9	21.2	21.2	21.6	21.6	21.6	21.9	21.9	22.3
≥ 18000		16.9	17.6	19.7	19.5	19.8	19.8	.9	21.2	21.2	21.6	21.6	1.6	21.9	21.9	22.3
≥ 16000	.6	18.0	1 .7	19.6	20.9	20.9	2 .9	21.9	22.3	22.3	22.7	22.7	22.7	23.0	23.0	23.4
≥ 14000		18.7	19.	20.9	21.9	21.9	21.9	23.0	23.4	23.4	23.7	23.7	24.1	24.5	24.5	24.8
≥ 12000		21.6	22.3	24.5	25.5	25.5	25.9	27.3	27.7	27.7	28.1	28.1	28.4	28.8	28.8	29.1
≥ 10000	.2	22.3	23.	25.2	26.6	26.6	27.	29.5	29.9	29.9	30.2	30.2	30.6	30.9	30.9	31.3
≥ 9000	.2	23.7	24.5	26.6	28.1	28.1	28.4	31.7	32.	32.0	32.4	32.4	32.7	33.1	33.1	33.5
≥ 8000		.5	25.5	26.	.8	30.9	30.9	31.3	34.5	34.9	34.9	35.3	35.3	35.6	36.	36.0	36.3
≥ 7000		.2	28.3	28.1	.2	32.4	32.4	32.7	36.0	36.3	36.3	36.7	36.7	37.1	37.4	37.4	37.6
≥ 6000		.5	29.6	29.4	30.6	32.7	32.7	33.1	36.3	36.7	36.7	37.1	37.1	37.4	37.8	37.8	38.1
≥ 5000		.3	27.3	29.1	31.7	34.2	34.5	35.3	38.5	38.9	38.9	39.2	39.2	39.6	39.9	39.9	40.3
≥ 4500		.3	7.3	29.1	31.7	34.2	34.5	35.6	38.9	39.2	39.2	39.6	39.6	39.9	40.3	40.3	40.7
≥ 4000		.1	29.1	3 .9	33.5	37.1	37.4	38.5	42.5	42.8	42.8	43.2	43.2	43.5	43.9	43.9	44.6
≥ 3500		.5	7 .5	32.7	35.6	39.2	39.6	40.7	44.6	45.	45.	45.3	45.3	45.7	46.0	46.0	46.5
≥ 3000		.0	33.5	35.3	38.1	41.7	42.1	43.2	47.5	47.8	47.8	48.2	48.2	48.6	48.9	48.9	49.6
≥ 2500		.1	34.5	36.7	39.9	43.5	43.	45.0	49.3	49.6	50.4	50.7	50.7	51.1	51.4	51.4	52.2
≥ 2000		.2	36.	38.1	41.4	45.	45.3	46.4	50.7	51.1	51.3	52.2	52.2	52.5	52.9	52.9	53.6
≥ 1800		.2	36.	38.1	41.4	45.	45.3	46.4	50.7	51.1	51.	52.2	2.2	52.5	52.9	52.9	53.6
≥ 1500		.2	36.0	38.5	41.7	45.7	46.	47.1	51.4	51.8	52.5	52.9	52.9	53.2	53.6	53.6	54.3
≥ 1200		.2	36.0	38.5	41.7	45.7	46.0	47.1	51.4	51.8	52.5	52.9	52.9	53.2	53.6	53.6	54.3
≥ 1000		.5	36.3	39.2	42.5	46.3	47.1	48.2	52.9	53.2	54.0	54.3	54.3	54.7	55.0	55.	55.8
≥ 900		.5	36.7	39.6	43.2	47.5	47.8	49.3	54.	54.3	55.0	55.	55.4	55.8	56.1	56.1	56.8
≥ 800		.5	37.4	40.7	46.0	49.3	49.6	51.1	55.8	56.1	56.8	57.2	57.2	57.6	57.9	57.9	58.6
≥ 700			38.1	41.4	45.7	50.0	50.4	51.8	56.3	57.2	57.9	58.3	58.3	58.6	59.0	59.0	59.7
≥ 600		.3	39.5	42.6	47.1	51.4	51.9	53.2	58.6	59.0	59.7	60.4	60.4	60.8	61.2	61.2	61.9
≥ 500		.1	39.2	43.5	48.2	52.5	53.2	55.	60.4	60.8	61.5	62.2	62.2	62.6	63.0	63.0	63.7
≥ 400		.1	39.2	43.5	48.2	53.6	55.	56.9	63.3	63.7	64.8	65.5	65.5	65.8	66.2	66.2	66.9
≥ 300		.4	39.6	43.9	48.9	55.0	56.4	60.1	67.3	69.4	7 .5	71.9	71.9	72.3	72.7	72.7	73.4
≥ 200		.4	39.6	43.9	48.9	55.0	56.	60.8	70.1	73.0	75.9	78.1	78.1	79.6	80.2	80.2	80.9
≥ 100		.4	39.6	43.9	48.9	55.	56.8	61.5	71.6	75.5	79.5	83.5	84.5	87.1	91.4	92.5	94.2
0		.4	39.6	43.9	48.9	55.0	56.8	61.5	71.6	75.5	79.5	83.5	84.5	87.4	92.1	93.5	100.0

TOTAL NUMBER OF OBSERVATIONS 278

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS 73-92 MONTH JUN

HOURS 1 2 3

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.	15.2	15.9	16.7	17.2	17.4	19.5	20.4	20.4	20.4	20.7	20.7	20.7	20.7	21.1
≥ 20000	.	18.9	20.4	21.1	22.2	22.6	24.1	26.7	26.7	26.7	27.0	27.4	27.4	27.4	27.8
≥ 18000	.	18.9	20.4	21.1	22.3	23.3	24.8	27.4	27.4	27.4	27.8	28.2	28.2	28.2	28.5
≥ 16000	.	18.9	20.4	21.1	22.3	23.7	25.2	27.8	27.8	27.8	28.2	28.5	28.5	28.5	28.9
≥ 14000	.	19.6	21.1	21.8	24.1	24.4	25.7	28.5	28.5	28.5	28.9	29.3	29.3	29.3	29.6
≥ 12000	.	.4	21.	22.6	24.8	25.2	26.7	29.3	29.3	29.3	29.6	30.0	30.0	30.0	30.4
≥ 10000	.	21.9	23.	23.7	25.3	27.	28.5	31.5	31.5	31.5	31.9	32.2	32.2	32.2	32.6
≥ 9000	1.	22.	24.1	24.8	27.8	28.5	30.0	33.0	33.0	33.0	33.3	33.7	33.7	33.7	34.1
≥ 8000	.	24.	25.3	7.0	30.0	30.7	32.2	35.6	35.6	35.6	35.9	36.3	36.3	36.3	36.7
≥ 7000	.	24.5	26.7	27.4	3 .4	31.1	32.6	35.9	3 .9	35.9	36.3	36.7	36.7	36.7	37.0
≥ 6000	.	24.5	26.7	27.4	3 .7	31.	33.	36.3	36.3	36.3	36.7	37.	37.0	37.0	37.4
≥ 5000	.5	26.3	28.2	28.9	32.2	33.0	34.4	37.8	37.9	37.8	38.2	38.5	38.5	38.5	38.9
≥ 4500	.4	27.2	29.0	30.7	34.1	34.9	36.3	39.6	39.6	39.6	40.0	40.4	40.4	40.4	40.7
≥ 4000	.	28.9	3 .7	31.5	35.6	36.7	38.2	41.2	42.2	42.2	42.6	43.0	43.0	43.0	43.3
≥ 3500	.	29.	31.9	32.6	36.7	37.8	39.6	44.1	44.1	44.1	44.4	44.8	44.8	44.8	45.2
≥ 3000	.	31.9	34.4	35.2	40.0	41.9	43.7	48.2	48.2	48.2	48.5	48.9	48.9	48.9	49.3
≥ 2500	1.	32.6	35.2	35.9	41.1	43.	44.8	49.3	49.3	49.3	49.6	50.0	50.0	50.0	50.4
≥ 2000	.	33.	35.6	36.3	41.5	43.3	45.2	49.6	49.6	49.6	50.0	50.4	50.4	50.4	50.7
≥ 1800	.	33.0	35.6	36.3	41.5	43.3	45.2	49.6	49.6	49.6	50.0	50.4	50.4	50.4	50.7
≥ 1500	.	34.1	36.7	37.4	42.6	44.4	46.3	50.7	50.7	50.7	51.1	51.5	51.5	51.5	51.9
≥ 1200	.	34.1	36.7	37.4	42.6	44.4	46.3	50.7	50.7	50.7	51.1	51.5	51.5	51.5	51.9
≥ 1000	32.	34.1	36.7	37.8	43.	44.8	46.7	51.1	51.1	51.1	51.5	51.9	51.9	51.9	52.2
≥ 900	32.	34.1	36.7	37.8	43.3	45.2	47.	51.5	51.5	51.5	51.9	52.2	52.2	52.2	52.6
≥ 800	3.0	35.4	37.0	38.2	44.4	46.3	48.2	53.0	53.0	53.	53.3	53.7	53.7	53.7	54.1
≥ 700	3.	35.2	37.0	38.3	45.	47.8	49.6	54.4	54.4	54.4	54.8	55.2	55.2	55.2	55.6
≥ 600	34.	36.3	38.5	39.4	47.8	49.6	51.9	57.0	57.0	57.0	57.4	57.8	57.8	57.8	58.2
≥ 500	.	36.7	40.4	41.5	49.3	51.5	53.7	58.9	58.9	58.9	59.3	59.6	59.6	59.6	60.
≥ 400	35.	37.4	41.1	42.2	50.7	53.0	55.6	61.5	61.5	61.5	61.9	62.2	62.2	62.2	62.6
≥ 300	.	37.4	41.5	43.7	52.2	55.6	58.6	65.9	67.4	67.4	67.8	68.2	68.2	68.2	68.5
≥ 200	35.	37.4	41.5	43.	52.2	56.3	60.7	71.1	73.3	74.4	75.2	75.9	75.9	76.3	76.7
≥ 100	35.	37.4	41.5	43.0	53.	57.4	61.9	73.0	75.9	78.2	80.7	81.9	84.1	86.3	89.6
≥ 0	35.	37.4	41.5	43.0	53.0	57.4	61.9	73.0	75.9	78.2	80.7	81.9	84.1	87.	91.1

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH JUL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L S T) 00

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	14.[illegible]	1[illegible].7	19.[illegible]	[illegible].5	1.2	21.[illegible]	[illegible].1	23.1	23.4	23.4	23.4	23.4	23.4	23.4	23.3
≥ 20000	[illegible]	19.3	21.9	24.2	27.[illegible]	[illegible].7	3[illegible].9	32.3	32.3	32.7	32.7	32.7	32.7	32.7	32.7	33.1
≥ 18000	[illegible]	19.3	21.9	24.2	27.[illegible]	[illegible].7	30.9	32.3	32.3	32.7	32.7	32.7	32.7	32.7	32.7	33.1
≥ 16000	[illegible]	19.3	21.9	24.2	27.[illegible]	[illegible].7	30.9	[illegible].3	32.3	32.7	32.7	32.7	32.7	32.7	32.7	33.1
≥ 14000	[illegible]	[illegible].1	23.7	26.9	[illegible].[illegible]	[illegible].[illegible]	31.6	33.5	33.5	33.[illegible]	33.8	33.8	33.8	33.8	33.[illegible]	34.2
≥ 12000	[illegible]	20.[illegible]	23.1	25.3	28.4	31.2	32.3	34.2	34.2	34.6	34.6	34.6	34.6	34.6	34.6	34.9
≥ 10000	[illegible]	[illegible]1.[illegible]	24.5	26.6	30.[illegible]	32.7	33.9	35.7	35.7	36.1	36.1	36.1	36.1	36.1	36.1	36.4
≥ 9000	[illegible]	[illegible].2	24.[illegible]	27.1	31.2	33.1	34.2	36.1	36.1	36.4	36.4	36.4	36.4	36.4	36.4	36.9
≥ 8000	[illegible].1	24.5	27.1	29.4	33.5	[illegible].3	36.4	[illegible].3	38.3	38.7	38.7	38.7	38.7	38.7	38.7	39.0
≥ 7000	[illegible].5	[illegible].[illegible]	2[illegible].5	30.9	34.[illegible]	[illegible].6	37.[illegible]	[illegible].8	39.8	40.2	40.2	40.2	40.2	40.2	40.2	40.5
≥ 6000	[illegible].[illegible]	6.[illegible]	2[illegible].6	[illegible].9	34.[illegible]	36.8	37.9	[illegible].9	39.[illegible]	40.2	40.2	40.2	40.2	40.2	40.2	40.5
≥ 5000	[illegible]	[illegible].3	3[illegible].[illegible]	33.1	37.2	39.4	40.[illegible]	42.4	42.4	42.[illegible]	42.[illegible]	42.8	42.8	42.8	42.8	43.1
≥ 4500	[illegible]	[illegible].[illegible]	31.[illegible]	33.8	37.[illegible]	[illegible].2	41.3	43.1	43.1	43.5	43.5	43.5	43.5	43.5	43.5	43.9
≥ 4000	[illegible].4	[illegible].[illegible]	32.5	35.7	40.2	42.4	43.[illegible]	46.5	46.5	46.[illegible]	46.8	46.8	46.8	46.8	46.8	47.2
≥ 3500	[illegible].4	[illegible].[illegible]	[illegible].[illegible]	36.4	41.[illegible]	43.5	45.[illegible]	48.0	48.[illegible]	48.3	48.3	48.3	48.3	48.3	48.3	48.7
≥ 3000	[illegible].1	31.[illegible]	34.[illegible]	37.6	42.[illegible]	45.[illegible]	46.5	49.4	49.4	49.8	49.8	49.8	49.8	49.8	49.8	5[illegible].2
≥ 2500	[illegible].[illegible]	[illegible]3.[illegible]	37.2	39.[illegible]	45.4	48.[illegible]	49.[illegible]	[illegible].4	52.4	53.2	53.2	53.2	53.2	53.2	53.2	53.5
≥ 2000	[illegible].[illegible]	[illegible]4.2	37.[illegible]	40.5	46.5	49.1	[illegible].6	53.5	53.5	54.3	54.3	54.3	54.3	54.3	54.3	54.7
≥ 1800	[illegible].[illegible]	34.2	37.[illegible]	40.5	46.5	49.1	[illegible].6	53.5	53.5	54.3	54.3	54.3	54.3	54.3	54.3	54.7
≥ 1500	[illegible].[illegible]	34.2	37.[illegible]	[illegible].5	46.5	49.1	[illegible].6	[illegible].5	53.5	54.3	54.3	54.3	54.3	54.3	54.3	54.7
≥ 1200	[illegible].[illegible]	34.2	37.[illegible]	[illegible].[illegible]	46.3	49.4	5[illegible].[illegible]	[illegible].[illegible]	53.9	54.7	54.7	54.7	54.7	54.7	54.7	55.[illegible]
≥ 1000	[illegible].[illegible]	35.7	3[illegible].8	42.4	[illegible].7	51.3	52.4	55.8	55.8	56.[illegible]	56.5	56.5	56.5	56.5	56.5	56.9
[illegible]	[illegible].[illegible]	36.1	40.2	42.8	49.4	52.0	53.5	56.5	56.5	57.3	57.3	57.3	57.3	57.3	57.3	57.6
34.[illegible]	[illegible]6.1	[illegible].[illegible]2	42.8	49.8	[illegible]2.4	53.[illegible]	57.3	57.3	58.0	58.[illegible]	58.0	58.0	58.0	58.[illegible]	58.[illegible]	58.4
[illegible].[illegible]	36.4	[illegible].[illegible]5	43.1	5[illegible].6	[illegible]3.2	54.7	58.[illegible]	3[illegible].[illegible]	58.[illegible]	58.7	58.7	58.7	58.7	58.7	58.7	59.1
[illegible].[illegible]	37.[illegible]	[illegible].[illegible]	45.[illegible]	52.8	[illegible]5.4	57.3	[illegible].[illegible]	[illegible].[illegible]	[illegible].[illegible]	61.3	61.3	61.3	61.3	61.3	61.3	61.7
[illegible].[illegible]	38.7	43.9	47.2	55.4	58.0	59.9	63.2	63.2	63.[illegible]	63.9	63.9	63.9	63.9	63.9	63.9	64.[illegible]
[illegible].6	[illegible]9.[illegible]	[illegible]5.[illegible]	48.3	57.3	[illegible].2	62.5	66.2	[illegible]6.5	67.3	67.7	67.7	67.7	67.7	67.7	67.7	68.[illegible]
[illegible].6	[illegible]9.[illegible]	[illegible]5.[illegible]	[illegible]8.1	59.5	[illegible]3.2	66.2	[illegible].6	[illegible].[illegible]	[illegible].[illegible]	[illegible].7	[illegible].7	[illegible].1	[illegible].1	[illegible].1	[illegible].[illegible]
[illegible].6	[illegible]9.[illegible]	[illegible]5.4	[illegible].4	61.3	[illegible]5.6	68.8	76.6	78.1	81.[illegible]	[illegible]2.2	[illegible]2.2	[illegible].3	[illegible].[illegible]	[illegible].3	[illegible].6
[illegible].6	[illegible]9.[illegible]	[illegible]5.7	[illegible]5.8	62.8	[illegible]7.3	[illegible]0.3	[illegible]9.2	[illegible]1.[illegible]	[illegible]4.[illegible]	[illegible]7.4	[illegible]8.1	[illegible]9.[illegible]	[illegible]1.[illegible]	[illegible]2.6	[illegible]4.1
[illegible].6	[illegible]9.[illegible]	45.7	49.8	62.8	67.3	70.3	79.2	[illegible]1.[illegible]	[illegible]4.[illegible]	87.4	88.9	90.3	92.9	94.1	[illegible]0.[illegible]

TOTAL NUMBER OF OBSERVATIONS _____ [illegible]65

OPNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH MAY

HOURS (LST) ALL

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING		70.9	71.7	72.4	73.1	73.3	73.4	73.5	73.5	73.5	73.5	73.5	73.6	73.6	73.6	73.6
≥ 20000		46.4	46.1	47.7	48.5	48.7	48.9	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.1	49.1
≥ 18000		45.7	47.2	48.0	48.8	49.1	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.4	49.4	49.5
≥ 16000		46.4	48.0	48.8	49.7	49.9	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.3
≥ 14000		47.4	49.0	49.9	50.8	51.0	51.2	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.4
≥ 12000		47.5	51.7	52.6	53.7	53.9	54.0	54.1	54.2	54.2	54.2	54.2	54.2	54.3	54.3	54.4
≥ 10000		52.3	54.4	55.4	56.5	56.7	56.9	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.2
≥ 9000		53.7	55.8	56.9	57.9	58.2	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.6	58.6	58.7
≥ 8000		55.7	59.2	60.5	61.7	61.8	62.0	62.2	62.2	62.2	62.2	62.2	62.2	62.3	62.3	62.4
≥ 7000		57.7	61.2	62.4	63.6	63.8	64.1	64.2	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.4
≥ 6000		58.1	61.6	62.8	64.1	64.3	64.6	64.7	64.8	64.8	64.8	64.8	64.8	64.9	64.9	64.9
≥ 5000		60.3	63.8	65.1	66.4	66.7	66.9	67.0	67.1	67.1	67.1	67.1	67.1	67.2	67.2	67.3
≥ 4500		61.9	65.4	66.8	68.2	68.5	68.7	68.8	68.9	68.9	68.9	68.9	68.9	69.0	69.0	69.1
≥ 4000		63.4	67.0	68.5	69.9	70.3	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.8
≥ 3500		68.7	72.6	74.2	75.7	76.1	76.3	76.5	76.6	76.6	76.6	76.6	76.6	76.7	76.7	76.8
≥ 3000		69.2	73.4	75.0	76.6	77.0	77.2	77.4	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.7
≥ 2500		72.2	76.4	78.1	79.8	80.2	80.4	80.6	80.7	80.7	80.7	80.7	80.7	80.8	80.8	80.9
≥ 2000		73.4	77.6	79.4	81.1	81.5	81.7	81.9	82.0	82.0	82.0	82.0	82.0	82.1	82.1	82.2
≥ 1800		73.6	77.9	79.7	81.4	81.8	82.0	82.1	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.4
≥ 1500		74.1	78.4	80.2	82.0	82.3	82.5	82.7	82.7	82.7	82.7	82.8	82.8	82.9	82.9	83.0
≥ 1200		74.7	79.1	80.9	82.6	83.1	83.3	83.4	83.5	83.5	83.5	83.6	83.6	83.7	83.7	83.8
≥ 1000		75.2	79.6	81.4	83.2	83.6	83.8	84.0	84.1	84.2	84.2	84.3	84.3	84.4	84.4	84.5
≥ 900		75.3	79.8	81.5	83.3	83.6	84.1	84.3	84.5	84.5	84.5	84.6	84.6	84.7	84.7	84.8
≥ 800		75.8	79.3	81.5	83.8	84.4	84.9	85.2	85.3	85.4	85.4	85.5	85.5	85.6	85.5	85.6
≥ 700		76.0	79.6	81.9	84.3	84.9	85.6	85.9	86.0	86.1	86.2	86.2	86.2	86.3	86.3	86.4
≥ 600		76.2	79.8	82.2	85.0	85.7	86.4	86.9	87.0	87.1	87.1	87.2	87.2	87.2	87.2	87.3
≥ 500		76.8	80.7	83.2	86.4	87.2	88.1	88.8	89.1	89.2	89.2	89.3	89.4	89.4	89.4	89.5
≥ 400		77.1	81.1	83.8	87.2	88.2	89.3	90.4	90.7	90.9	90.9	91.0	91.1	91.2	91.2	91.3
≥ 300		77.2	81.4	84.2	88.1	89.3	90.8	92.6	93.1	93.5	93.6	93.7	93.8	93.9	93.9	94.0
≥ 200		77.4	81.6	84.5	88.5	89.9	91.4	93.9	94.8	95.2	95.4	95.5	95.6	95.7	95.8	95.9
≥ 100		77.4	81.7	84.5	88.6	90.0	91.7	94.4	95.5	96.2	96.7	97.2	97.5	98.1	98.4	98.7
≥ 0		77.4	81.7	84.5	88.6	90.0	91.7	94.4	95.5	96.2	96.7	97.2	97.5	98.3	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 28

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE ESTABLISHMENT ACTIVITY NO.

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MAY (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

21 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	[illegible].2	37.2	37.6	39.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
≥ 20000	[illegible].7	[illegible]	51.7	53.1	54.5	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 18000	[illegible].7	[illegible]	51.7	53.1	54.8	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
≥ 16000	[illegible].3	[illegible].7	52.4	54.1	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 14000	[illegible].7	[illegible]	52.4	54.1	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 12000	[illegible]	52.1	54.8	56.6	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
≥ 10000	[illegible]	53.1	55.9	57.6	59.3	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
≥ 9000	[illegible]	54.5	57.9	59.7	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 8000	[illegible]	[illegible].5	61.4	63.1	64.9	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
≥ 7000	[illegible]	58.3	62.1	64.1	66.2	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
≥ 6000	[illegible].6	59.[illegible]	62.8	64.8	66.9	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 5000	[illegible].3	61.0	65.2	67.6	69.7	70.3	70.7	70.7	71.1	71.[illegible]	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4500	[illegible].1	62.[illegible]	66.9	69.3	71.7	72.4	72.8	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 4000	[illegible].3	[illegible].8	69.[illegible]	71.4	73.8	74.5	75.2	75.2	75.6	75.5	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3500	[illegible].1	[illegible].2	[illegible]	71.7	74.1	75.2	75.9	75.9	76.2	76.2	76.6	76.6	76.6	76.6	76.6	76.6
≥ 3000	[illegible]	[illegible].3	72.8	75.5	77.9	79.[illegible]	79.7	79.7	80.0	80.0	80.3	80.3	80.3	80.3	80.3	80.3
≥ 2500	[illegible].6	70.3	75.2	77.9	80.3	81.4	82.1	82.1	82.4	82.4	82.8	82.8	82.8	82.8	82.8	82.8
≥ 2000	[illegible]	71.[illegible]	76.9	78.6	81.0	82.1	82.5	82.8	83.1	83.1	83.5	83.5	83.5	83.5	83.5	83.5
≥ 1800	[illegible]	71.[illegible]	76.9	78.6	81.[illegible]	82.1	82.8	82.8	83.1	83.1	83.5	83.5	83.5	83.5	83.5	83.5
≥ 1500	[illegible]	71.4	76.2	79.[illegible]	81.4	82.4	83.1	83.1	83.5	83.5	83.8	83.8	83.8	83.8	83.8	83.8
≥ 1200	[illegible].5	72.1	76.9	79.7	82.1	83.1	83.8	83.8	84.1	84.1	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1000	[illegible]	72.4	77.2	80.0	82.4	83.5	84.1	84.1	84.5	84.5	84.8	84.8	84.8	84.8	84.8	84.8
≥ 900	[illegible]	72.4	77.2	80.0	82.4	83.5	84.1	84.1	84.5	84.5	84.8	84.8	84.8	84.8	84.8	84.8
≥ 800	[illegible].5	72.4	77.2	80.0	82.4	83.5	84.5	84.5	84.8	84.8	85.2	85.2	85.2	85.2	85.2	85.2
≥ 700	[illegible]	72.4	77.2	80.0	82.4	83.5	85.2	85.5	85.9	85.9	86.2	86.2	86.2	86.2	86.2	86.2
≥ 600	[illegible]	72.4	77.[illegible]	80.3	83.[illegible]	84.8	86.6	86.9	87.2	87.2	87.6	87.6	87.6	87.6	87.6	87.6
≥ 500	[illegible]	73.1	78.[illegible]	82.1	85.5	86.6	88.6	89.[illegible]	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0
≥ 400	[illegible].0	73.1	78.[illegible]	82.1	85.9	86.9	89.3	90.3	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0
≥ 300	[illegible].0	73.1	79.0	82.4	86.2	87.2	90.[illegible]	92.1	92.4	92.4	92.8	93.1	93.1	93.1	93.1	93.1
≥ 200	[illegible]	73.1	79.0	82.4	86.2	87.2	90.0	92.8	93.[illegible]	94.1	94.5	94.5	94.8	94.8	94.8	94.8
≥ 100	[illegible].4	73.5	79.3	82.8	86.6	87.6	90.3	93.8	94.[illegible]	95.2	95.9	95.9	96.6	97.9	98.3	98.3
≥ 0	[illegible].4	73.5	79.3	82.8	86.6	87.6	90.3	93.8	94.8	95.2	95.9	95.9	96.[illegible]	97.9	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 290

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1800 HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¾	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING	.1	31.2	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
≥ 20000	4.3	4.5	5.9	51.2	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
≥ 18000	4.4	50.1	51.2	51.9	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 16000	4.4	51.9	52.6	53.2	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 14000	4.1	52.5	53.2	53.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000	4.5	55.6	56.3	57.1	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 10000	1.2	4.9	60.0	60.7	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 9000	1.4	5.1	60.3	61.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 8000	4.2	62.7	64.4	65.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 7000	4.4	63.4	65.1	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 6000	5.0	64.1	65.8	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 5000	4.7	67.1	68.2	70.0	71.2	71.2	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
≥ 4500	4.7	68.6	70.9	72.5	73.2	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4000	1.7	7.2	72.5	74.2	75.3	75.3	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 3500	4.4	7.4	75.3	77.0	78.3	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 3000	4.1	7.6	78.6	80.3	81.7	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2500	4.2	7.8	81.7	82.9	84.1	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2000	4.8	78.6	81.7	83.4	84.8	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1800	4.8	77.3	80.4	84.1	85.4	85.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1500	4.8	79.3	82.4	84.1	85.4	85.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.9	85.9
≥ 1200	4.7	79.7	82.7	84.4	85.8	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
≥ 1000	1.2	4.1	82.1	84.8	86.1	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
≥ 900	1.2	80.3	83.4	85.1	86.4	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 800	1.2	80.7	83.7	85.4	86.8	86.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 700	1.2	81.0	84.1	85.8	87.5	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
≥ 600	1.2	81.4	84.4	86.1	88.1	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 500	2.5	82.0	85.4	87.5	89.8	90.2	90.5	91.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 400	2.5	82.0	85.8	87.8	90.2	90.5	90.9	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
≥ 300	2.5	82.3	85.8	88.1	90.5	90.9	91.2	92.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
≥ 200	2.9	82.4	86.1	88.5	91.9	91.2	91.9	93.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
≥ 100	2.9	82.4	86.1	88.5	91.9	91.2	91.9	94.2	96.6	97.0	97.3	98.0	98.0	98.3	98.6	98.6
≥ 0	2.9	82.4	86.1	88.5	90.9	91.2	91.9	94.2	96.6	97.0	97.3	98.0	98.0	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 2215

DIRNAVOCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH MAY

HOURS (L.S.T.) 12

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS 296

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

17 HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ⅝	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	•	37.6	2 .2	7	3 .5	7.	2 .2	3 .9	3 .7	30.5	30.7	30.0	30.0	30.0	30.0	30.0
≥ 20000	•	•	24.3	27.1	33.4	34.2	34.5	36.2	36.3	36.5	36.6	36.6	36.6	36.6	36.6	36.6
≥ 18000	•	•	27.2	27.1	33.4	34.2	34.3	36.2	36.3	36.5	36.6	36.6	36.6	36.6	36.6	36.6
≥ 16000	•	•	27.3	27.5	33.5	34.3	34.4	36.3	36.4	36.6	36.6	36.6	36.6	37.3	37.3	37.3
≥ 14000	•	1.0	24.4	27.6	33.6	35.4	35.5	37.4	37.5	38.0	38.0	38.0	38.0	38.3	38.3	38.3
≥ 12000	•	23.6	24.6	31.1	37.2	38.0	38.3	40.2	40.4	41.3	41.8	41.8	41.8	41.1	41.1	41.1
≥ 10000	•	26.7	31.2	34.5	39.7	41.1	41.6	43.7	44.1	44.6	44.6	44.6	44.6	45.3	45.3	45.3
≥ 9000	•	27.0	31.7	35.2	41.1	43.0	43.9	46.1	46.6	46.7	46.7	46.7	46.7	47.5	47.5	47.5
≥ 8000	•	27.2	32.1	35.6	41.6	43.5	44.0	46.2	46.7	46.8	46.8	46.9	46.9	47.1	47.1	47.1
≥ 7000	•	29.3	33.5	37.2	43.3	45.2	45.7	47.9	48.4	48.5	48.5	48.6	48.6	48.8	48.8	48.8
≥ 6000	•	29.5	33.7	37.4	43.6	45.5	46.0	48.2	48.7	48.8	48.8	48.9	48.9	49.1	49.1	49.1
≥ 5000	•	29.7	33.9	37.6	43.8	45.7	46.2	48.4	48.9	49.0	49.0	49.1	49.1	49.3	49.3	49.3
≥ 4500	•	29.7	33.9	37.6	43.8	45.7	46.2	48.4	48.9	49.0	49.0	49.1	49.1	49.3	49.3	49.3
≥ 4000	•	32.1	37.1	42.5	48.8	51.2	52.3	54.6	55.1	55.2	55.2	55.3	55.3	55.5	55.5	55.5
≥ 3500	•	32.2	37.2	42.6	48.9	51.3	52.4	54.7	55.2	55.3	55.3	55.4	55.4	55.6	55.6	55.6
≥ 3000	1.0	34.2	40.1	46.3	53.1	55.1	56.1	58.7	59.2	59.3	59.3	59.4	59.4	59.6	59.6	59.6
≥ 2500	1.0	34.5	40.5	46.5	53.5	55.6	56.7	59.6	60.2	60.3	60.3	60.4	60.4	60.6	60.6	60.6
≥ 2000	1.4	36.2	41.8	48.0	55.4	57.5	58.6	61.5	62.1	62.2	62.2	62.3	62.3	62.5	62.5	62.5
≥ 1800	1.4	36.6	42.2	48.4	55.8	57.9	59.0	61.9	62.5	62.6	62.6	62.7	62.7	62.9	62.9	62.9
≥ 1500	1.4	36.8	42.4	48.6	56.1	58.2	59.3	62.2	62.8	62.9	62.9	63.0	63.0	63.2	63.2	63.2
≥ 1200	3.5	37.3	42.9	49.2	56.7	58.8	59.9	62.8	63.4	63.5	63.5	63.6	63.6	63.8	63.8	63.8
≥ 1000	24.5	58.2	63.8	55.9	57.3	59.4	60.5	63.4	64.0	64.1	64.1	64.2	64.2	64.4	64.4	64.4
≥ 900	24.6	58.7	64.3	51.2	57.3	59.4	60.5	63.4	64.0	64.1	64.1	64.2	64.2	64.4	64.4	64.4
≥ 800	24.6	58.8	64.4	51.3	57.4	59.5	60.6	63.5	64.1	64.2	64.2	64.3	64.3	64.5	64.5	64.5
≥ 700	25.0	59.2	64.8	51.7	57.8	59.9	61.0	63.9	64.5	64.6	64.6	64.7	64.7	64.9	64.9	64.9
≥ 600	25.0	60.4	65.3	53.3	59.4	61.5	62.6	65.5	66.1	66.2	66.2	66.3	66.3	66.5	66.5	66.5
≥ 500	25.0	60.8	65.7	53.7	61.7	63.9	65.0	67.9	68.5	68.6	68.6	68.7	68.7	68.9	68.9	68.9
≥ 400	•	61.5	66.4	54.4	62.5	64.7	65.8	68.7	69.3	69.4	69.4	69.5	69.5	69.7	69.7	69.7
≥ 300	•	61.5	66.4	54.5	62.6	64.8	65.9	68.8	69.4	69.5	69.5	69.6	69.6	69.8	69.8	69.8
≥ 200	•	62.2	67.1	56.8	66.9	69.2	70.4	73.4	74.1	74.2	74.2	74.3	74.3	74.5	74.5	74.5
≥ 100	•	62.2	67.1	56.8	67.3	69.6	70.8	73.8	74.5	74.6	74.6	74.7	74.7	74.9	74.9	74.9
≥ 0	•	62.2	67.1	56.9	67.3	69.6	70.8	73.8	74.5	74.6	74.6	74.7	74.7	74.9	74.9	74.9

TOTAL NUMBER OF OBSERVATIONS 217

DIRS.AVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION ____ STATION NAME ____ YEARS ____ MONTH ____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.) ____

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	. .3	14.	1 .7	17.	20.7	21.4	22.1	23.6	23.	24.3	24.3	24.3	24.3	24.3	24.3	24.5
≥ 20000	. .3	18.1	2 .3	21.7	25.4	26.5	27.5	29.7	29.7	30.4	30.4	30.4	30.4	30.4	30.4	30.6
≥ 18000	. .6	18.1	2 .3	21.7	25.4	26.5	27.5	29.7	29.7	30.4	30.4	30.4	30.4	30.4	30.4	30.6
≥ 16000	. .6	18.1	2 .3	21.7	25.4	26.5	27.5	29.7	29.7	30.4	30.4	30.4	30.4	30.4	30.4	30.6
≥ 14000	. .	18.	21.0	22.5	26.1	27.2	28.6	30.8	30.	31.5	31.5	31.5	31.5	31.5	31.5	31.
≥ 12000	. .	20.5	23.	24.3	28.6	29.7	31.2	33.3	33.3	34.1	34.1	34.1	34.1	34.1	34.1	34.4
≥ 10000	. .	1.	24.	26.5	30.8	31.	33.3	35.5	35.	36.2	36.2	36.2	36.2	36.2	36.2	36.6
≥ 9000	. .	2.1	25.	27.2	31.	32.	34.8	37.3	37.7	38.0	38.	38.	38.0	38.0	38.0	38.4
≥ 8000	. .	23.6	26.8	28.0	34.1	35.1	37.3	39.9	39.9	40.6	40.6	40.6	40.6	40.6	40.6	40.9
≥ 7000	. .	23.6	27.5	29.7	34.6	35.9	38.0	40.6	40.6	41.3	41.3	41.3	41.3	41.3	41.3	41.7
≥ 6000	. .	23.6	27.5	29.7	34.8	35.9	38.	40.6	40.6	41.3	41.3	41.3	41.3	41.3	41.3	41.7
≥ 5000	2.1	25.4	2 .7	31.9	37.7	38.8	41.	43.5	43.5	44.2	44.2	44.2	44.2	44.2	44.2	44.6
≥ 4500	2.1	25.4	2 .7	31.9	37.7	38.8	41.	43.5	43.5	44.2	44.2	44.2	44.2	44.2	44.2	44.6
≥ 4000	27.	27.5	31.9	34.4	4 .2	41.3	43.8	46.4	46.4	47.	47.1	47.1	47.1	47.1	47.1	47.5
≥ 3500	4.3	27.	32.6	35.1	40.5	42.0	44.6	47.5	47.5	48.2	48.2	48.2	48.2	48.2	48.2	48.6
≥ 3000	. .	30.1	3 .1	37.7	43.	44.7	47.5	50.4	50.4	51.1	51.1	51.1	51.1	51.1	51.1	51.5
≥ 2500	. .	31.	38.	39.1	45.7	46.7	49.3	52.5	52.5	53.3	53.3	53.3	53.3	53.3	53.3	53.6
≥ 2000	27.	31.9	37.	39.9	46.7	47.8	50.4	53.6	53.6	54.4	54.4	54.4	54.4	54.4	54.4	54.7
≥ 1800	. .	32.3	37.7	4 .2	47.1	48.2	50.7	54.0	54.0	54.7	54.7	54.7	54.7	54.7	54.7	55.1
≥ 1500	. .	33.	38.	40.9	47.2	48.3	51.8	55.1	55.1	55.8	55.	55.8	55.8	55.8	55.8	56.2
≥ 1200	. .	33.7	3 .1	42.0	48.3	49.4	52.9	56.2	56.2	56.9	56.9	56.9	56.9	56.9	56.9	57.3
≥ 1000	. .	33.7	39.1	42.	48.3	49.4	52.9	56.2	56.2	57.3	57.3	57.3	57.3	57.3	57.3	57.6
≥ 900	. .	33.7	39.5	42.4	48.6	49.7	53.3	56.5	56.9	57.6	57.6	57.6	57.6	57.6	57.6	58.
≥ 800	10.4	34.4	40.2	43.1	50.4	51.5	54.0	57.6	58.	59.1	59.1	59.1	59.1	59.1	59.1	59.4
≥ 700	10.	34.1	40.	43.3	51.1	52.2	55.1	58.7	59.1	6 .1	60.1	60.1	60.1	60.1	60.1	6 .5
≥ 600	11.2	35.5	41.7	44.2	51.5	52.5	55.4	59.1	59.4	60.5	60.5	6 .5	6 .5	60.5	60.5	61.2
≥ 500	12.3	36.6	42.4	46.0	5 .6	55.1	58.3	62.0	62.3	63.8	63.8	63.8	63.8	63.8	63.8	64.1
≥ 400	13.	37.7	43.1	47.1	56.2	58.6	61.2	65.2	65.6	67.0	67.4	67.8	67.8	67.8	67.8	68.1
≥ 300	13.	37.7	43.5	47.5	56.	58.7	62.3	66.7	67.4	69.2	69.6	70.3	70.3	70.3	70.3	70.7
≥ 200	13.	37.7	43.5	47.5	57.2	59.1	63.8	69.6	70.7	72.5	73.6	74.3	74.6	74.6	75.0	75.4
≥ 100	13.0	37.7	43.5	47.5	57.6	61.2	64.9	72.8	75.4	79.	80.8	83.6	85.5	89.5	91.3	92.4
≥ 0	13.	37.7	43.5	47.5	57.6	61.2	64.9	72.8	75.4	79.	80.8	83.0	85.5	89.9	92.4	100.0

TOTAL NUMBER OF OBSERVATIONS ____ 276

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.1	11.[illegible]	1[illegible]	13.9	16.[illegible]	15.[illegible]	17.7	18.8	19.[illegible]	19.[illegible]	19.9	19.1	19.1	19.1	19.1	19.1
≥ 20000	.1	17.[illegible]	2[illegible].1	22.[illegible]	25.[illegible]	26.4	27.4	28.9	29.2	29.2	29.2	29.5	29.5	29.5	29.9	29.9
≥ 18000	.1	17.[illegible]	2[illegible].1	23.[illegible]	26.[illegible]	26.7	27.8	29.2	29.5	29.5	29.5	29.9	29.9	30.2	30.2	30.2
≥ 16000	.1	17.4	2[illegible].1	23.5	26.4	27.1	28.1	29.9	30.2	30.2	30.2	30.6	30.6	30.9	30.9	30.9
≥ 14000	.1	18.4	27.5	25.7	28.9	29.[illegible]	30.6	32.3	32.6	32.6	32.6	33.3	33.3	33.7	33.7	33.7
≥ 12000	.1	19.4	27.6	26.7	29.9	30.6	31.6	33.3	33.7	33.7	34.0	34.7	34.7	35.1	35.1	35.1
≥ 10000	.1	1[illegible].[illegible]	24.0	27.1	30.2	30.[illegible]	31.9	34.7	35.1	35.1	35.4	36.1	36.1	36.5	36.5	36.5
≥ 9000	.1	20.1	24.3	27.4	30.5	31.[illegible]	32.6	35.4	35.8	35.8	36.1	36.8	36.8	37.2	37.2	37.2
≥ 8000	.1	21.[illegible]	24.4	29.5	33.[illegible]	34.4	35.8	38.5	38.9	38.9	39.2	39.9	39.9	40.[illegible]	40.3	40.3
≥ 7000	.1	21.[illegible]	24.4	29.5	33.7	34.7	36.1	38.9	39.2	39.2	39.6	40.3	40.3	40.6	40.6	40.6
≥ 6000	21.[illegible]	22.[illegible]	27.8	31.9	35.1	36.1	37.5	40.3	40.6	40.6	41.0	41.7	41.7	42.0	42.0	42.0
≥ 5000	.1	25.[illegible]	29.[illegible]	33.3	37.5	38.5	39.9	42.7	43.4	43.4	43.8	44.4	44.4	44.8	44.8	44.8
≥ 4500	.1	26.[illegible]	30.9	34.4	38.[illegible]	39.8	41.[illegible]	43.8	44.4	44.4	44.8	45.5	45.5	45.8	45.8	45.[illegible]
≥ 4000	20.[illegible]	27.8	32.6	36.1	40.[illegible]6	42.[illegible]	43.4	46.5	47.2	47.2	47.6	48.6	48.6	49.0	49.0	49.[illegible]
≥ 3500	.1	29.[illegible]	34.4	37.[illegible]	42.4	43.[illegible]	45.1	48.3	49.[illegible]	49.[illegible]	49.3	50.7	50.7	51.[illegible]	51.[illegible]	51.[illegible]
≥ 3000	.1	30.[illegible]	35.8	39.2	43.[illegible]	45.1	46.5	50.0	50.7	50.7	51.[illegible]	52.4	52.4	52.8	52.8	52.8
≥ 2500	.1	31.[illegible]	36.[illegible]	41.7	46.5	48.3	50.0	53.5	54.2	54.5	54.9	56.3	56.3	56.6	56.6	56.6
≥ 2000	.1	33.[illegible]	38.5	42.[illegible]	46.[illegible]	48.[illegible]6	50.7	54.5	55.6	55.9	56.3	57.6	57.6	58.[illegible]	58.[illegible]	58.[illegible]
≥ 1800	.1	33.[illegible]	38.9	42.[illegible]	46.9	48.6	50.7	54.5	55.6	55.9	56.3	57.6	57.6	58.[illegible]	58.[illegible]	58.[illegible]
≥ 1500	.1	33.[illegible]	38.5	42.4	47.2	49.3	51.4	55.2	56.3	56.6	56.9	58.3	58.3	58.7	58.7	58.7
≥ 1200	1.[illegible]	33.7	38.[illegible]	43.5	48.6	50.[illegible]7	52.9	56.6	57.6	58.[illegible]	58.3	59.7	59.7	60.1	60.1	60.1
≥ 1000	1.[illegible]	34.4	40.[illegible]	44.4	49.[illegible]7	51.7	54.2	58.[illegible]	59.4	59.7	60.[illegible]1	61.5	61.5	61.8	61.8	61.8
≥ 900	2.[illegible]	34.7	40.6	45.1	50.4	52.4	54.9	58.7	60.1	60.4	60.8	62.2	62.2	62.5	62.5	62.5
≥ 800	33.[illegible]	36.1	42.0	46.5	51.7	53.8	56.3	60.1	61.5	61.8	62.2	63.5	63.5	63.9	63.9	63.9
≥ 700	3.[illegible]	36.1	42.0	46.5	51.7	53.[illegible]	56.3	60.1	61.5	61.8	62.2	63.5	63.5	63.9	63.9	63.9
≥ 600	3.[illegible]	36.5	42.4	47.2	52.8	54.9	57.3	61.1	62.5	62.9	63.2	64.6	64.6	64.9	64.9	64.9
≥ 500	34.[illegible]	37.2	43.1	49.0	54.5	56.6	60.1	64.6	66.0	66.7	67.0	68.4	68.4	68.8	68.8	68.8
≥ 400	3[illegible].1	38.2	44.1	5[illegible].4	56.3	58.7	63.2	68.4	69.8	70.5	70.8	72.2	72.2	72.6	72.6	72.6
≥ 300	3[illegible].1	38.2	44.1	5[illegible].4	57.6	60.4	64.7	70.8	72.8	73.3	73.6	75.0	75.4	76.0	76.0	76.0
≥ 200	3[illegible].1	38.2	44.1	5[illegible].4	58.3	61.9	66.7	73.6	76.0	77.4	79.1	79.5	80.6	81.3	81.3	81.3
≥ 100	3[illegible].1	38.2	44.1	5[illegible].4	58.3	61.9	67.4	76.4	79.5	81.6	83.7	85.4	87.5	90.6	92.0	92.7
≥ 0	3[illegible].1	38.2	44.1	5[illegible].4	58.3	61.9	67.4	76.4	79.5	81.6	83.7	85.4	87.9	91.7	94.1	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.1	1.6	17.5	18.3	18.6	18.6	18.6	18.6	18.6	18.6	19.0	19.0	19.0	19.0	19.0	19.0
≥ 20000	.	7.4	2.8	3.9	32.3	32.3	32.3	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
≥ 18000	.	7.7	3.0	31.2	32.6	32.6	32.6	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
≥ 16000	.7	8.1	3.5	31.6	33.0	33.0	33.0	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
≥ 14000	.7	8.1	31.6	32.6	34.0	34.4	34.4	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 12000	.	32.3	35.1	36.1	37.5	38.3	38.3	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
≥ 10000	.7	75.1	35.8	40.0	41.4	42.1	42.1	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
≥ 9000	.	75.4	36.0	40.4	41.8	42.5	42.5	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 8000	.4	37.5	41.4	43.2	44.6	45.3	45.3	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 7000	.4	38.5	41.8	43.9	45.3	46.0	46.0	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥ 6000	.1	38.3	42.5	44.9	46.7	47.4	47.4	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
≥ 5000	7.	41.0	44.2	47.6	49.8	49.5	49.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 4500	.	41.7	44.9	47.7	49.8	50.5	50.5	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
≥ 4000	.0	42.1	44.7	48.5	51.6	52.3	52.3	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 3500	.0	42.5	47.4	50.2	52.3	53.	53.0	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 3000	2.	46.0	50.	54.0	56.5	57.2	57.2	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 2500	.6	47.7	52.6	55.8	58.3	59.0	59.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 2000	.	48.1	53.0	56.5	59.0	59.7	60.0	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 1800	.7	48.4	53.3	56.8	59.3	60.0	60.4	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 1500	.1	.2	55.1	59.0	61.4	62.1	62.5	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
≥ 1200	.	51.2	56.1	60.7	63.2	63.9	64.2	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 1000	.	52.6	57.5	62.8	65.3	66.	66.3	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 900	.	53.0	57.9	63.2	66.0	66.7	67.0	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 800	1.	54.7	59.7	65.3	68.1	68.6	69.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 700	2.	55.	61.1	67.4	70.5	71.6	71.9	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 600	3.	56.1	6 .1	68.4	72.3	73.3	73.7	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
≥ 500	3.7	57.2	63.9	7 .2	75.1	76.1	76.5	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 400	5.1	58.6	66.7	73.	79.3	80.4	81.4	83.9	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6
≥ 300	5.	59.3	67.7	74.4	81.8	83.2	84.6	88.8	89.5	90.2	90.2	90.2	90.2	90.2	90.2	90.2
≥ 200	5.1	59.7	68.1	75.1	83.5	84.9	86.3	91.9	92.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 100	5.1	59.7	68.1	75.1	83.9	85.3	87.4	92.6	94.4	96.8	97.9	98.3	98.3	99.3	99.7	99.7
≥ 0	5.1	59.7	68.1	75.1	83.9	85.3	87.4	92.6	94.4	96.8	97.9	98.3	98.3	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 245

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ATHENS, GREECE

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS 77-82 MONTH Jul

HOURS (L.S.T.) 12

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ .	≥ 0
NO CEILING	.	.	21.6	21.9	.	.	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 20000	2.	34.2	36.5	37.5	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
≥ 18000	3.2	35.2	36.4	37.9	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
≥ 16000	34.	36.2	38.5	39.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
≥ 14000	3.	38.2	41.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
≥ 12000	.	40.5	43.	44.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
≥ 10000	3.	42.	45.5	47.2	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 9000	4.	43.2	45.	47.5	48.8	48.8	48.8	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 8000	5.2	45.5	47.	50.2	51.5	51.5	51.8	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 7000	5.	45.	48.5	51.5	52.5	52.5	52.8	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
≥ 6000	4.	46.5	49.2	51.2	53.2	53.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
≥ 5000	4.	47.5	52.5	54.5	56.5	56.5	56.5	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 4500	.	51.	53.2	55.2	57.8	57.8	57.8	58.1	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 4000	5.	52.5	55.5	57.5	6 .1	60.1	60.1	60.5	60.8	60.8	60.8	60.8	60.8	60.8	60.8
≥ 3500	5.1	54.2	57.1	59.1	62.1	62.1	62.1	62.5	62.8	62.8	62.8	62.8	62.8	62.8	62.8
≥ 3000	5.	58.5	62.1	64.5	67.4	67.8	67.8	68.1	68.4	68.8	68.8	68.8	68.8	68.8	68.8
≥ 2500	.	1.	64.8	67.1	70.4	70.8	70.8	71.1	71.4	71.8	71.8	71.8	71.8	71.8	71.8
≥ 2000	.	62.	65.8	68.1	71.4	71.8	71.8	72.1	72.4	72.8	72.8	72.8	72.8	72.8	72.8
≥ 1800	.	62.8	66.1	68.4	71.8	72.1	72.1	72.4	72.8	73.1	73.1	73.1	73.1	73.1	73.1
≥ 1500	.	65.1	68.8	71.1	74.4	74.8	74.8	75.1	75.4	75.8	75.8	75.8	75.8	75.8	75.8
≥ 1200	4.1	66.5	7 .1	72.4	75.8	76.1	76.1	76.4	76.7	77.1	77.1	77.1	77.1	77.1	77.1
≥ 1000	4.2	67.1	7 .5	73.1	76.4	76.7	76.7	77.1	77.4	77.7	77.7	77.7	77.7	77.7	77.7
≥ 900	5.	67.8	71.4	74.1	77.4	77.7	77.7	78.1	78.4	78.7	78.7	78.7	78.7	78.7	78.7
≥ 800	6.	69.1	72.8	75.4	78.7	79.1	79.1	79.4	79.7	80.1	80.1	80.1	80.1	80.1	80.1
≥ 700	6.4	69.8	73.4	76.4	79.7	80.1	80.1	80.4	80.7	81.1	81.1	81.1	81.1	81.1	81.1
≥ 600	.	71.4	75.1	78.4	81.7	82.1	82.4	82.7	83.1	83.4	83.4	83.4	83.4	83.4	83.4
≥ 500	.	72.9	77.7	81.7	85.1	86.1	86.4	87.0	87.4	87.7	87.7	87.7	87.7	87.7	87.7
≥ 400	71.9	74.1	79.1	83.1	86.7	88.0	88.4	89.0	89.4	90.0	90.0	90.0	90.0	90.0	90.0
≥ 300	71.9	74.1	79.1	83.4	87.7	90.	91.0	92.0	93.0	93.7	93.7	93.7	93.7	93.7	93.7
≥ 200	71.9	74.4	79.4	83.7	88.4	91.4	92.7	95.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100	1.9	74.4	79.4	83.7	88.7	92.	93.4	95.7	97.7	98.7	99.3	99.3	99.7	100.0	100.0
≥ 0	1.9	74.4	79.4	83.7	88.7	92.	93.4	95.7	97.7	98.7	99.3	99.3	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 301

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	0
NO CEILING			21.7	22.3	22.6	22.	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 20000		33.7	33.1	33.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
≥ 18000		1.1	32.4	33.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
≥ 16000		32.1	33.5	34.6	35.6	35.6	35.6	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
≥ 14000		34.1	34.5	37.8	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
≥ 12000		42.2	42.5	41.9	43.9	43.9	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 10000		41.2	42.5	43.9	46.0	46.0	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
≥ 9000		2.	44.7	46.6	47.6	47.6	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 8000	46.6	46.0	49.0	49.7	51.7	51.7	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
≥ 7000		49.	49.7	51.7	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 6000		49.	49.7	52.0	54.4	54.4	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 5000		49.7	51.7	54.1	56.4	56.4	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 4500		50.7	52.7	55.1	57.4	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 4000		51.5	54.8	56.1	58.5	58.8	59.	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 3500	54.4	55.1	57.4	60.1	62.5	62.8	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
≥ 3000	54.4	59.5	61.8	65.2	67.9	68.2	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 2500	61.1	62.5	64.9	68.2	71.0	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 2000	62.2	63.5	66.5	69.8	72.0	72.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 1800	63.3	63.5	66.8	69.8	72.0	72.6	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
≥ 1500	63.3	64.5	66.8	70.3	73.	73.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 1200	63.3	65.9	68.2	71.6	74.3	75.	76.	76.	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 1000	63.3	66.	69.2	72.6	75.3	76.4	77.4	77.4	77.4	77.4	77.4	77.7	77.7	77.7	77.7	77.7
≥ 900	63.3	66.2	69.3	72.6	75.3	76.4	77.4	77.4	77.4	77.4	77.4	77.7	77.7	77.7	77.7	77.7
≥ 800	63.3	68.2	70.6	74.0	76.7	77.7	78.7	78.7	78.7	78.7	78.7	79.1	79.1	79.1	79.1	79.1
≥ 700	66.2	69.2	72.0	75.3	78.0	79.1	80.1	80.1	80.1	80.1	80.1	80.4	80.4	80.4	80.4	80.4
≥ 600	66.2	69.9	73.3	76.7	79.4	80.4	81.4	81.4	81.4	81.4	81.4	81.8	81.8	81.8	81.8	81.8
≥ 500	66.2	71.6	75.3	78.1	81.1	83.5	84.5	84.5	84.5	84.5	84.5	84.8	84.8	84.8	84.8	84.8
≥ 400	66.9	72.6	77.0	81.4	85.1	86.5	87.8	87.8	87.8	87.8	87.8	88.2	88.2	88.2	88.2	88.2
≥ 300	66.9	72.6	77.4	82.1	87.2	88.9	90.2	90.9	90.9	91.2	91.2	91.6	91.6	91.6	91.6	91.6
≥ 200	66.9	73.	77.7	82.8	87.8	89.5	91.6	93.6	94.3	94.6	94.9	95.6	95.6	95.6	95.6	95.6
≥ 100	66.9	73.	77.7	82.4	87.8	89.5	92.2	94.9	96.5	97.2	97.6	98.7	99.0	100.0	100.0	100.0
≥ 0	66.9	73.0	77.7	82.4	87.8	89.5	92.2	94.9	96.5	97.2	97.6	98.7	99.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS ____ 256

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION ____ STATION NAME ____ YEARS ____ MONTH ____

HOURS (L.S.T.) ____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2300																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS ____

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0	≥ 0
NO CEILING	1 .0	14.7	18.9	19.5	23.2	23.2	23.2	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
≥ 20000	1 .4	14.8	25.7	29.6	33.4	33.7	32.1	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
≥ 18000	1 .4	14.8	25.7	29.6	33.4	33.7	32.1	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
≥ 16000	.7	19.1	24.2	28.1	33.7	32.4	32.4	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
≥ 14000	.0	21.2	27.3	27.7	30.9	34.5	35.2	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 12000	.1	22.0	28.0	30.0	35.2	36.9	37.5	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
≥ 10000	1.0	24.2	29.7	31.7	36.9	38.9	39.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 9000	2.2	24.0	31.1	33.1	38.2	40.2	41.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
≥ 8000	.0	26.6	32.9	35.2	40.6	43.0	43.7	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 7000	.2	27.0	33.5	35.8	42.0	44.4	45.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 6000	.2	27.0	33.5	35.8	42.0	44.4	45.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 5000	.0	28.7	35.2	37.9	44.4	46.3	47.4	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
≥ 4500	.2	30.4	36.9	39.6	46.1	48.6	49.5	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 4000	.2	31.7	38.9	42.0	48.8	51.5	52.6	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
≥ 3500	.2	33.1	40.6	44.4	51.2	54.0	55.6	59.3	59.3	59.4	59.4	59.4	59.4	59.4	59.4
≥ 3000	.1	35.6	43.0	46.3	53.2	57.7	58.7	62.1	62.1	62.5	62.5	62.5	62.5	62.5	62.5
≥ 2500	.1	36.5	44.0	47.8	55.6	59.4	60.4	63.8	63.8	64.2	64.2	64.2	64.2	64.2	64.2
≥ 2000	.1	37.5	45.1	48.8	56.7	60.4	61.4	64.9	64.9	65.2	65.2	65.2	65.2	65.2	65.2
≥ 1800	.1	37.5	45.1	48.8	56.7	60.4	61.4	64.9	64.9	65.2	65.2	65.2	65.2	65.2	65.2
≥ 1500	.1	37.5	45.4	49.2	57.0	60.8	61.8	65.2	65.2	65.5	65.5	65.5	65.5	65.5	65.5
≥ 1200	.1	37.5	45.4	49.2	57.3	61.4	62.5	65.9	65.9	66.2	66.2	66.2	66.2	66.2	66.2
≥ 1000	.5	39.3	47.4	51.2	59.4	63.5	64.5	68.3	68.3	68.6	68.6	68.6	68.6	68.6	68.6
≥ 900	.5	39.3	47.8	51.5	59.7	63.8	64.9	68.6	68.6	68.9	68.9	68.9	68.9	68.9	68.9
≥ 800	.2	39.6	48.1	51.9	60.1	64.2	65.2	68.9	68.9	69.3	69.3	69.3	69.3	69.3	69.3
≥ 700	.2	40.0	48.2	52.9	61.1	65.2	66.2	70.0	70.0	70.3	70.3	70.3	70.3	70.3	70.3
≥ 600	36.2	40.6	48.2	52.9	61.4	65.5	66.6	70.3	70.3	70.7	70.7	70.7	70.7	70.7	70.7
≥ 500	36.2	41.0	48.5	53.2	62.1	66.6	67.9	72.0	72.0	72.4	72.4	72.4	72.4	72.4	72.4
≥ 400	.2	42.7	51.5	57.0	66.2	71.0	72.4	76.5	76.5	77.1	77.1	77.5	77.8	77.8	77.8
≥ 300	.9	43.3	52.2	57.7	67.9	72.7	74.4	79.2	79.5	80.2	80.2	80.6	80.9	80.9	80.9
≥ 200	.2	43.7	52.9	58.7	69.6	74.7	76.5	81.9	82.3	83.6	84.0	84.3	84.6	84.6	84.6
≥ 100	36.2	43.7	52.9	58.7	70.0	75.4	77.5	84.6	86.7	88.1	89.8	91.5	93.5	94.5	96.3
≥ 0	.2	43.7	52.9	58.7	70.0	75.4	77.5	84.6	86.7	88.1	89.8	91.5	93.9	95.6	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 293

DIPNAVOCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | JUL MONTH | ALL HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING	.	1.1	1 .7	15.6	21.9	21.9	22.1	22.7	22.8	23.	23.	23.0	23.0	23.0	23.0	23.
≥ 20000	.	24.	27.2	29.1	31.5	32.2	32.7	33.6	33.7	33.8	33.8	33.9	33.9	33.9	33.9	34.
≥ 18000	.	24.	27.4	29.3	31.9	32.5	32.	33.8	34.0	34.1	34.1	34.1	34.1	34.2	34.2	34.2
≥ 16000	.	25.5	27.	29.9	32.5	33.2	33.6	34.	34.7	34.8	34.8	34.9	34.9	35.	35.0	35.
≥ 14000	.	27.	27.7	31.6	34.4	35.2	35.7	36.6	36.8	36.9	36.9	37.0	37.0	37.1	37.1	37.1
≥ 12000	.	29.5	31.2	34.2	37.2	38.1	38.6	39.6	39.8	39.9	39.9	40.0	40.1	40.1	40.1	40.2
≥ 10000	.1	1.2	34.3	36.5	39.5	40.4	41.	42.3	42.4	42.6	42.6	42.7	42.7	42.8	42.8	42.8
≥ 9000	.	31.	3 .1	37.4	40.5	41.5	42.1	43.5	43.6	43.8	43.8	43.9	43.9	44.	44.0	44.
≥ 8000	.	33.	35.3	39.8	42.3	44.3	45.0	46.4	46.6	46.7	46.7	46.8	46.9	46.9	46.9	47.
≥ 7000	.	34.2	37.8	40.5	44.1	45.1	45.9	47.3	47.4	47.6	47.6	47.7	47.7	47.8	47.8	47.9
≥ 6000	.2	34.5	38.2	41.6	44.7	45.7	46.4	47.9	48.0	48.1	48.2	48.2	48.3	48.3	48.3	48.4
≥ 5000	3.	36.4	4 .1	43.3	47.1	48.2	49.0	50.4	50.6	50.7	50.8	50.9	5 .9	51.0	51.0	51.
≥ 4500	3.	37.2	41.1	44.1	4 .	49.1	49.9	51.4	51.6	51.8	51.8	51.9	51.9	52.0	52.	52.
≥ 4000	.1	43.7	43.	46.2	5 .3	51.6	52.5	54.1	54.3	54.5	54.5	54.6	54.7	54.7	54.7	54.9
≥ 3500	.	4 .7	44.6	47.7	52.1	53.5	54.4	56.1	56.4	56.5	56.6	56.8	56.	56.8	56.8	56.
≥ 3000	.	43.4	4 .	51.6	56.1	57.6	58.6	60.3	60.6	60.8	60.8	61.1	61.1	61.1	61.1	61.2
≥ 2500	.3	45.2	48.2	53.6	58.3	60.	61.0	62.7	63.	63.3	63.3	63.5	63.6	63.6	63.6	63.7
≥ 2000	.1	46.0	50.7	54.7	59.4	61.2	62.3	64.1	64.5	64.7	64.8	65.0	65.0	65.1	65.1	65.1
≥ 1800	.	46.1	50.9	54.9	59.6	61.4	62.5	64.3	64.6	64.9	64.9	65.1	65.2	65.2	65.2	65.3
≥ 1500	.2	46.2	51.0	5 .2	60.5	62.4	63.5	65.3	65.7	65.9	66.0	66.2	66.2	66.3	66.3	66.3
≥ 1200	44.	47.7	52.6	56.8	61.6	63.5	64.6	66.4	66.7	67.0	67.0	67.2	67.3	67.3	67.3	67.4
≥ 1000	4 .6	48.0	53.6	57.8	62.7	64.6	65.8	67.8	68.2	6 .4	68.5	68.7	68.8	68.8	68.8	68.9
≥ 900	4 .	48.8	57.9	58.3	63.2	65.1	66.3	68.2	68.7	68.9	69.0	69.2	69.3	69.3	69.3	69.4
≥ 800	46.	49.0	54.2	59.4	64.3	66.3	67.5	69.5	7 .0	70.3	70.3	70.6	70.6	70.7	70.7	70.7
≥ 700	47.4	50.6	55.8	60.4	65.4	67.4	68.6	70.6	71.1	71.4	71.5	71.7	71.8	71.8	71.8	71.8
≥ 600	.	51.3	56.6	61.3	66.5	68.5	69.8	71.8	72.3	72.6	72.7	72.9	73.0	73.0	73.0	73.
≥ 500	.2	52.3	57.0	63.0	69.6	70.8	72.3	74.5	75.0	75.4	75.5	75.7	75.8	75.8	75.8	75.8
≥ 400	49.7	53.4	59.5	65.3	71.5	73.9	75.7	78.3	78.9	79.5	79.6	8 .0	80.1	80.1	80.1	8 .1
≥ 300	.6	53.7	58.9	65.9	73.1	75.8	77.9	81.3	82.2	83.0	83.2	83.5	83.7	83.8	83.8	83.8
≥ 200	.2	53.9	6 .2	66.3	74.1	77.3	79.7	84.0	85.3	86.4	86.8	87.3	87.5	87.6	87.7	87.7
≥ 100	.5	53.6	61.2	66.3	74.3	77.7	8 .5	85.9	88.2	90.0	91.6	92.6	93.8	95.7	96.4	96.9
≥ 0	.2	53.9	6 .2	66.3	74.3	77.7	8 .5	85.9	88.2	90.0	91.6	92.6	93.9	96.4	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 2124

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING			21.6	22.3	25.4		26.5	27.5	27.5	27.6	27.7	27.9	27.9	27.9	27.9	
≥ 20000		24.7	27.2	27.5	32.4	32.8	33.6	34.8	34.8	34.8	35.2	35.2	35.2	35.2	35.2	35.2
≥ 18000	.4	25.4	27.2	27.6	33.1	33.5	34.2	35.5	35.5	35.5	35.9	35.9	35.9	35.9	35.9	35.9
≥ 16000	.4	25.4	27.2	27.6	33.1	33.5	34.2	35.5	35.5	35.5	35.9	35.9	35.9	35.9	35.9	35.9
≥ 14000	.1	27.2	29.6	30.7	35.9	36.5	36.2	37.6	37.6	37.6	38.0	38.0	38.0	38.0	38.0	38.0
≥ 12000		32.6	33.5	34.6	39.4	39.7	40.8	42.2	42.2	42.2	42.5	42.5	42.5	42.5	42.5	42.5
≥ 10000	.1	32.8	33.6	34.7	43.2	43.5	44.6	46.0	46.0	46.0	46.3	46.3	46.3	46.3	46.3	46.3
≥ 9000		33.1	37.6	38.4	44.3	44.6	45.8	47.0	47.0	47.0	47.4	47.4	47.4	47.4	47.4	47.4
≥ 8000	.5	35.5	39.4	41.1	46.3	46.7	47.7	49.1	49.1	49.1	49.5	49.5	49.5	49.5	49.8	49.8
≥ 7000	34.6	35.7	39.7	41.5	46.7	47.1	48.1	49.5	49.5	49.5	49.8	49.8	49.8	49.8	50.2	50.2
≥ 6000		36.2	40.1	41.8	47.0	47.4	48.4	49.8	49.8	49.8	50.2	50.2	50.2	50.2	50.5	50.5
≥ 5000		38.4	43.2	45.1	50.2	50.5	51.6	53.3	53.3	53.3	53.7	53.7	53.7	53.7	54.0	54.0
≥ 4500		41.4	44.6	46.7	51.9	52.3	53.4	55.1	55.1	55.1	55.4	55.4	55.4	55.4	56.1	56.1
≥ 4000		42.2	45.3	47.8	54.4	54.7	55.8	57.5	57.5	57.5	57.8	57.8	57.8	57.8	58.5	58.5
≥ 3500	.2	44.6	47.8	51.2	57.1	57.5	58.5	60.3	60.3	60.3	60.6	60.6	60.6	60.6	61.3	61.3
≥ 3000	41.6	48.4	52.6	55.1	61.0	61.3	62.4	64.5	64.5	64.5	64.8	64.8	64.8	64.8	65.5	65.5
≥ 2500	.6	51.6	55.8	58.2	64.1	64.5	65.5	67.6	67.6	67.6	67.9	67.9	67.9	67.9	68.6	68.6
≥ 2000		51.8	56.0	58.4	64.2	64.5	65.6	67.8	67.8	67.8	68.1	68.1	68.1	68.1	68.8	68.8
≥ 1800		51.8	56.0	58.4	64.2	64.5	65.6	67.8	67.8	67.8	68.1	68.1	68.1	68.1	68.8	68.8
≥ 1500	1.0	53.0	57.8	60.6	66.4	66.7	67.9	70.4	70.4	70.4	70.7	70.7	70.7	70.7	71.4	71.4
≥ 1200	.2	54.7	59.6	62.4	68.6	69.0	70.0	72.5	72.5	72.5	72.8	72.8	72.8	72.8	73.5	73.5
≥ 1000	4.7	56.1	61.0	63.8	70.7	71.1	72.1	74.6	74.6	74.6	74.9	74.9	74.9	74.9	75.6	75.6
≥ 900	5.4	56.8	61.7	64.6	71.6	72.1	73.2	75.6	75.6	75.6	76.0	76.0	76.0	76.0	76.7	76.7
≥ 800	5.4	56.8	61.7	64.6	71.6	72.1	73.2	75.6	75.6	75.6	76.0	76.0	76.0	76.0	76.7	76.7
≥ 700	5.4	56.8	61.7	64.6	71.6	72.1	73.2	75.6	75.6	75.6	76.0	76.0	76.0	76.0	76.7	76.7
≥ 600	5.4	57.5	62.7	65.9	72.8	73.2	74.2	77.4	77.4	77.4	77.7	77.7	77.7	77.7	78.4	78.4
≥ 500	5.4	57.5	63.1	66.3	73.6	74.2	75.3	78.8	79.1	79.1	79.4	79.4	79.4	79.4	80.1	80.1
≥ 400	6.0	59.2	64.1	67.6	75.2	75.8	78.1	82.6	82.9	83.3	83.6	84.0	84.0	84.0	84.7	84.7
≥ 300	7.5	68.9	65.2	68.6	76.3	77.7	79.4	84.0	84.3	85.4	85.1	86.1	86.1	86.1	86.8	87.1
≥ 200	7.5	68.9	65.5	69.0	76.7	78.4	80.1	86.1	86.8	87.8	88.2	89.6	89.6	89.9	90.6	90.9
≥ 100	57.5	58.9	65.5	69.0	76.7	78.4	81.2	87.8	88.9	91.9	93.4	93.7	94.8	95.5	96.5	98.7
0	57.5	58.9	65.5	69.0	76.7	78.4	81.2	87.8	88.9	91.9	93.4	93.7	94.8	95.8	96.9	100.0

TOTAL NUMBER OF OBSERVATIONS

USWB/AVIEASMET (5-80)

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING			21.[illegible]	22.[illegible]	[illegible]	[illegible]	26.0	27.1	28.1	28.1	28.1	28.1	28.1	28.5	28.5	[illegible]
≥ 20000		[illegible]	27.1	[illegible]	[illegible]	[illegible]	31.[illegible]	33.0	34.4	34.4	34.4	34.4	34.4	34.7	34.7	35.1
≥ 18000		[illegible]	27.1	[illegible]	[illegible]	[illegible]	31.[illegible]	33.[illegible]	34.4	34.4	34.4	34.4	34.4	34.7	34.7	35.1
≥ 16000		[illegible]	27.1	[illegible]	[illegible]	[illegible]	31.[illegible]	33.[illegible]	34.4	34.4	34.4	34.4	34.4	34.7	34.7	35.1
≥ 14000		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	34.7	35.8	37.2	37.2	37.2	37.2	37.5	37.5	37.5	37.[illegible]
≥ 12000		[illegible]	31.[illegible]	33.3	36.1	[illegible]	37.5	38.5	39.9	39.9	39.9	39.9	40.3	40.3	40.3	40.6
≥ 10000		[illegible]	[illegible]	35.4	38.[illegible]	[illegible]	40.3	41.3	42.7	42.7	42.7	42.7	43.1	43.1	43.1	43.4
≥ 9000		[illegible]	[illegible]	35.[illegible]	[illegible]	[illegible]	41.3	41.7	43.[illegible]	44.1	44.1	44.1	44.1	44.4	44.4	44.4	44.[illegible]
≥ 8000		[illegible]	33.7	[illegible]	[illegible]	[illegible]	42.7	43.1	44.1	45.5	45.5	45.5	45.5	45.8	45.8	45.8	46.[illegible]
≥ 7000		[illegible]	34.4	[illegible]	[illegible]	[illegible]	43.[illegible]	44.1	45.5	46.[illegible]	46.[illegible]	46.[illegible]	46.[illegible]	47.2	47.2	47.2	47.6
≥ 6000		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	44.[illegible]	45.1	46.5	47.[illegible]	47.[illegible]	47.[illegible]	47.[illegible]	48.3	48.3	48.3	48.6
≥ 5000		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	51.7	51.7	51.7	51.7	52.1	52.1	52.1	52.4
≥ 4500		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 4000		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 3500		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 3000		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 2500		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 2000		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 1800		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 1500		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 1200		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 1000		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 900		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 800		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 700		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 600		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 500		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 400		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 300		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 200		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 100		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 0		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]8

DRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STA. NO. STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	17.	1 .3	1 .3	1 .6	1 .9	2 .1	20 .6	21 .3	21 .3	21 .3	21 .4	21 .4	21 .4	21 .5	21 .5
≥ 20000	.	25 .1	27 .5	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .4	31 .5	31 .7	31 .9	31 .9	32 .2
≥ 18000	.	25 .6	27 .6	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 16000	.	25 .6	27 .6	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 14000	.	25 .6	27 .6	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 12000	.	25 .6	27 .6	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 10000	3 .	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 9000	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 8000	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 7000	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 6000	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 5000	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 4500	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 4000	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 3500	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 3000	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 2500	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 2000	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 1800	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 1500	.	25 .6	27 .7	28 .2	29 .2	3 .	30 .6	31 .1	31 .3	31 .5	31 .	31 .7	31 .9	31 .9	32 .2
≥ 1200	.2	5 .2	5 .4	21 .5	56 .1	68 .3	69 .8	71 .1	71 .4	72 .0	72 .4	72 .4	72 .4	72 .6	73 .1
≥ 1000	.2	26 .4	6 .3	62 .0	67 .1	69 .	70 .8	72 .1	72 .4	73 .4	73 .8	73 .4	73 .4	73 .4	74 .1
≥ 900	.	26 .2	60 .9	62 .5	67 .1	69 .	70 .8	72 .1	72 .4	73 .4	73 .8	73 .4	73 .4	73 .8	74 .1
≥ 800	.	56 .4	61 .8	63 .9	69 .8	71 .3	72 .8	74 .1	74 .4	75 .4	75 .4	75 .4	75 .4	75 .8	76 .1
≥ 700	.	56 .4	61 .9	64 .1	69 .1	72 .1	73 .1	74 .4	74 .8	75 .9	75 .8	75 .8	75 .8	76 .1	76 .4
≥ 600	.5	57 .1	62 .5	65 .1	70 .4	73 .4	75 .1	77 .1	77 .8	78 .4	78 .4	78 .4	78 .8	79 .1	79 .1
≥ 500	.	57 .6	63 .	66 .1	72 .1	75 .3	77 .4	79 .7	80 .1	81 .1	81 .1	81 .1	81 .4	81 .7	81 .7
≥ 400	34 .	57 .8	63 .5	66 .5	72 .4	75 .1	77 .7	80 .7	81 .4	82 .4	82 .4	82 .4	82 .7	83 .1	83 .4
≥ 300	34 .	57 .8	63 .5	66 .8	73 .2	76 .1	78 .7	81 .7	82 .4	83 .4	83 .4	83 .4	83 .7	84 .1	84 .4
≥ 200	34 .	57 .8	63 .5	66 .8	73 .2	76 .1	78 .7	81 .7	82 .4	83 .4	83 .4	83 .4	83 .7	84 .1	84 .4
≥ 100	34 .	57 .8	63 .5	66 .8	73 .2	76 .1	78 .7	81 .7	82 .4	83 .4	83 .4	83 .4	83 .7	84 .1	84 .4
≥ 0	34 .	57 .8	63 .5	66 .8	73 .2	76 .1	78 .7	81 .7	82 .4	83 .4	83 .4	83 .4	83 .7	84 .1	84 .4

TOTAL NUMBER OF OBSERVATIONS 241

DIR, NAVOCEANMET OMO5

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅝	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DATA CLEARANCE

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

1

HOURS L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
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≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS 1

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	> 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0	≥ 0	
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
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≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
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≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
0															

TOTAL NUMBER OF OBSERVATIONS

2 17

FORM C-CLIMATOLOGY (1965)

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH 1 | HOURS L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 8	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	0
NO CEILING	•															
≥ 20000	•															
≥ 18000	•															
≥ 16000	•															
≥ 14000	•															
≥ 12000	•															
≥ 10000	•															
≥ 9000	1.															
≥ 8000	2.															
≥ 7000	•															
≥ 6000	•															
≥ 5000	•															
≥ 4500	3.															
≥ 4000	3.															
≥ 3500	•															
≥ 3000	•															
≥ 2500	1.															
≥ 2000	1.															
≥ 1800	•															
≥ 1500	7.															
≥ 1200	7.															
≥ 1000	7.															
≥ 900	7.															
≥ 800	•															
≥ 700	•															
≥ 600	1.															
≥ 500	1.															
≥ 400	1.															
≥ 300	•															
≥ 200	1.															
≥ 100	1.															
0	1.															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	•	[illegible]	[illegible]	25.4	26.7	[illegible]	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
≥ 20000	•	[illegible]	[illegible]	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 18000	•	[illegible]	41.7	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 16000	[illegible]	[illegible]	43.7	43.1	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 14000	44.4	44.4	45.8	45.8	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
≥ 12000	•	[illegible]	50.4	51.7	51.[illegible]	[illegible]	51.[illegible]	51.[illegible]	51.[illegible]	51.[illegible]	51.[illegible]	51.[illegible]	51.[illegible]	51.[illegible]	51.[illegible]	51.[illegible]
≥ 10000	•	50.4	51.7	52.1	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 9000	1.7	1.7	53.1	53.5	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
≥ 8000	•	4.	56.6	56.3	56.6	56.6	56.9	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
≥ 7000	[illegible]	55.6	56.9	57.6	58.0	58.0	58.3	58.3	58.7	58.3	58.3	58.3	58.3	58.3	58.3	58.7
≥ 6000	•	56.[illegible]	59.7	59.4	59.7	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
≥ 5000	•	2.[illegible]	64.2	64.[illegible]	65.6	65.6	66.[illegible]	66.[illegible]	66.[illegible]	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 4500	•	63.[illegible]	66.[illegible]	66.[illegible]	66.7	66.7	67.[illegible]	67.[illegible]	67.[illegible]	67.[illegible]	67.0	67.0	67.0	67.0	67.0	67.0
≥ 4000	[illegible]	66.[illegible]	67.7	68.4	69.1	69.1	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 3500	•	68.[illegible]	70.5	71.2	71.9	71.9	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 3000	4.[illegible]	74.[illegible]	76.7	76.4	77.4	77.4	77.8	77.8	77.8	77.8	77.8	77.8	77.9	77.8	77.9	77.8
≥ 2500	•	79.[illegible]	81.3	1.9	84.[illegible]	84.[illegible]	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2000	1.[illegible]	1.6	83.7	84.7	86.[illegible]	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1800	1.[illegible]	1.6	83.7	84.7	86.[illegible]	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1500	[illegible]	2.3	84.4	[illegible].8	87.9	87.9	88.2	88.2	88.2	[illegible].2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 1200	2.[illegible]	2.6	84.7	86.1	88.2	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
≥ 1000	[illegible]	84.[illegible]	87.1	87.5	89.6	89.6	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 900	3.[illegible]	88.0	86.5	87.9	89.9	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 800	4.7	85.1	87.5	88.9	91.3	91.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 700	5.1	85.4	88.2	89.6	92.4	92.4	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 600	5.4	86.1	88.9	[illegible].3	93.1	93.1	93.8	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 500	5.[illegible]	86.5	89.2	90.6	94.1	94.4	95.5	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
≥ 400	6.1	86.8	89.6	91.[illegible]	94.8	95.1	96.[illegible]	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 300	6.1	86.8	89.6	91.[illegible]	94.8	95.1	96.5	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 200	6.1	86.8	89.9	91.3	95.5	95.8	97.2	98.3	99.[illegible]	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	6.1	86.8	89.9	91.3	95.[illegible]	95.8	97.2	98.3	99.[illegible]	99.3	99.3	99.3	[illegible].0	100.0	100.0	100.0
0	6.1	86.8	89.9	91.3	95.[illegible]	95.8	97.2	98.3	99.[illegible]	99.3	99.3	99.3	[illegible].0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 288

CONVAVOICEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH 1 | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0	
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
0															

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ .	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS 254

DIRNAVOCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																100.0

TOTAL NUMBER OF OBSERVATIONS

CONAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	[illegible]	[illegible]	31.4	32.5	[illegible]	33.2	33.9	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
≥ 20000	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
≥ 18000	[illegible]	[illegible]	39.3	40.7	41.8	41.8	42.5	43.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 16000	[illegible]	[illegible]	39.3	40.7	41.8	41.8	42.5	43.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 14000	[illegible]	41.1	41.4	42.9	43.9	43.9	44.6	45.4	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 12000	[illegible]	[illegible]	45.7	47.1	48.2	48.6	49.2	[illegible]	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 10000	[illegible]	49.2	50.0	51.4	53.2	53.6	54.3	55.[illegible]	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
≥ 9000	[illegible]	[illegible]	50.4	51.8	53.6	53.9	54.6	55.4	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 8000	[illegible]	51.1	52.0	53.0	56.3	57.1	57.9	58.6	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 7000	1.4	52.1	53.4	56.1	57.2	58.2	58.9	59.6	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
≥ 6000	[illegible]	[illegible]	55.[illegible]	[illegible]	59.9	[illegible]	[illegible]	[illegible]	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 5000	[illegible]	59.3	61.1	[illegible]	65.[illegible]	[illegible]	66.1	66.8	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
≥ 4500	[illegible]	[illegible]	62.1	64.6	66.4	67.1	67.9	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 4000	[illegible]	[illegible]	63.2	65.4	67.2	[illegible]	71.1	71.8	72.5	73.2	73.2	73.2	73.2	73.2	73.2	73.2
≥ 3500	[illegible]	64.3	66.4	68.9	71.1	72.1	72.9	73.6	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 3000	6.1	[illegible]	69.3	71.8	74.6	76.1	77.1	77.9	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
≥ 2500	67.[illegible]	[illegible]	71.4	74.3	77.1	78.6	79.6	[illegible]	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 2000	[illegible]	[illegible]	72.9	75.7	78.6	[illegible]	81.1	81.9	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 1800	[illegible]	[illegible]	72.9	75.7	78.6	[illegible]	81.1	81.6	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 1500	[illegible]	71.1	73.9	76.8	79.6	81.1	82.1	82.9	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
≥ 1200	[illegible]	71.9	74.7	77.5	80.4	81.8	82.9	83.6	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
≥ 1000	72.1	73.2	76.4	79.6	82.5	83.9	85.[illegible]	86.1	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 900	72.1	73.2	76.4	79.6	82.5	83.9	85.[illegible]	86.1	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
≥ 800	72.[illegible]	73.9	77.1	80.4	83.2	85.4	86.4	87.5	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 700	72.9	73.9	77.1	80.4	83.2	85.4	86.4	87.5	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
≥ 600	[illegible]	73.9	77.1	80.4	84.6	86.4	87.9	88.9	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
≥ 500	72.9	73.9	77.1	80.7	85.4	87.9	90.0	91.1	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
≥ 400	72.9	73.9	77.5	81.1	86.[illegible]	89.3	91.6	93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 300	73.[illegible]	74.6	78.2	81.8	88.2	90.7	93.9	95.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 200	73.6	74.6	78.9	82.5	88.9	91.8	95.[illegible]	97.1	97.9	97.9	97.9	97.9	97.9	97.9	98.2	98.2
≥ 100	73.[illegible]	74.6	78.9	82.5	88.9	92.1	95.4	97.5	98.2	98.2	98.9	98.9	98.9	99.3	99.6	99.6
≥ 0	73.6	74.6	78.9	82.5	88.9	92.1	95.4	97.5	98.2	98.2	98.9	98.9	98.9	99.6	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS [illegible]

DIRNAVOCEANMET 5M05

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	0
NO CEILING					33.1		34.5	34.5	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
≥ 20000		36.7	37.	39.1	41.	41.	42.3	42.3	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.
≥ 18000		36.7	37.	39.1	41.	41.	42.3	42.3	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
≥ 16000		36.6	37.3	39.4	41.2	41.5	42.6	42.6	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 14000		39.4	40.1	42.3	44.0	44.7	45.4	45.4	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 12000		43.6	44.3	46.1	47.9	48.6	49.3	49.3	5 .0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 10000	46.	47.2	47.9	50.4	52.1	53.2	53.9	53.9	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 9000	47.	48.2	48.9	51.4	53.2	54.2	54.9	54.9	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 8000	1.4	51.	51.7	54.2	56.0	57.4	58.1	58.2	59.2	59.9	59.9	59.9	59.9	59.9	59.9	59.9
≥ 7000	1.4	53.6	54.3	56.9	57.4	59.2	60.0	60.0	60.9	61.6	61.6	61.6	61.6	61.6	61.6	61.6
≥ 6000	4.2	54.6	55.3	57.9	59.7	61.5	62.2	62.2	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
≥ 5000	4.2	59.2	60.0	62.6	64.4	65.9	66.6	66.6	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 4500	4.2	61.3	62.0	64.6	66.4	68.	68.7	68.7	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 4000	5.0	64.1	64.8	67.4	69.4	71.8	72.5	73.6	73.6	74.3	74.3	74.3	74.3	74.3	74.3	74.3
≥ 3500	5.	65.8	66.5	69.1	71.5	73.9	75.	75.7	75.7	76.4	76.8	76.8	76.8	76.8	76.8	76.8
≥ 3000	6.2	67.2	70.4	72.9	75.4	76.4	77.5	77.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
≥ 2500	6.2	70.4	72.5	75.7	78.2	79.2	80.3	80.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2000	6.2	71.1	73.3	77.5	79.9	81.0	82.0	82.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 1800	6.2	71.1	74.3	77.5	79.9	81.0	82.0	82.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 1500	6.2	72.2	75.4	78.5	81.0	82.0	83.1	83.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
≥ 1200	6.2	73.6	77.1	80.3	82.3	83.3	84.9	84.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
≥ 1000	6.2	74.7	78.5	82.4	84.9	85.9	87.	87.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 900	6.2	74.7	78.5	82.4	84.9	85.9	87.	87.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 800	6.2	75.1	79.2	83.1	85.6	87.0	88.0	88.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 700	6.2	75.1	79.2	83.1	85.6	87.0	88.0	88.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 600	6.2	75.8	79.9	84.2	87.0	88.4	89.8	90.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
≥ 500	6.2	75.4	80.	84.5	88.0	90.1	91.9	92.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 400	6.2	75.4	80.3	84.5	89.1	91.6	93.3	94.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
≥ 300	6.2	75.7	80.6	84.9	89.8	92.6	94.4	95.8	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 200	6.2	76.1	81.	85.6	90.5	93.7	95.4	97.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 100	6.2	76.1	81.	85.6	90.5	93.7	95.4	97.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	99.3
≥ 0	6.2	76.1	81.0	85.6	90.5	93.7	95.4	97.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

NEL

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0
NO CEILING		71.1	27.2	28.2	29.2	34.5	24.7	25.0	25.1	25.2	25.2	25.2	25.3	25.3	25.4
≥ 20000		33.6	33.7	33.1	33.6	33.0	33.2	33.6	33.8	33.9	33.9	33.9	34.0	34.0	34.1
≥ 18000		33.6	33.7	33.3	33.7	33.8	33.4	33.8	34.0	34.0	34.1	34.1	34.1	34.1	34.2
≥ 16000		33.7	33.8	33.6	33.8	33.9	33.6	34.4	34.5	34.6	34.6	34.6	34.7	34.7	34.8
≥ 14000		33.7	33.8	33.6	33.8	33.9	33.6	34.4	34.5	34.6	34.6	34.6	34.7	34.7	34.8
≥ 12000		35.2	37.1	36.3	36.1	40.6	41.0	41.3	41.5	41.6	41.6	41.6	41.6	41.6	41.7
≥ 10000		37.6	39.9	41.3	41.2	43.7	44.0	44.5	44.7	44.7	44.8	44.8	44.9	44.9	45.0
≥ 9000		38.6	40.9	42.2	44.2	44.6	44.9	45.5	45.6	45.7	45.7	45.7	45.8	45.8	45.9
≥ 8000		41.9	43.7	45.2	47.2	47.6	48.2	48.7	48.9	49.0	49.0	49.0	49.1	49.1	49.2
≥ 7000		42.1	44.5	45.9	48.1	48.6	49.0	49.6	49.7	49.8	49.8	49.8	49.9	49.9	50.0
≥ 6000		43.0	45.4	46.9	49.1	49.6	50.0	50.6	50.7	50.8	50.8	50.9	51.0	51.0	51.1
≥ 5000	44.1	45.7	48.4	50.1	52.4	52.8	53.2	54.0	54.2	54.3	54.3	54.3	54.4	54.4	54.6
≥ 4500	47.0	47.4	50.2	51.9	54.2	54.6	55.2	56.0	56.1	56.2	56.3	56.3	56.3	56.4	56.5
≥ 4000	48.6	49.3	52.3	54.2	56.6	57.2	57.7	58.5	58.7	58.8	58.8	58.8	58.9	58.9	59.0
≥ 3500	50.7	51.5	54.2	56.2	58.9	59.5	59.9	60.7	60.9	61.0	61.0	61.0	61.1	61.2	61.3
≥ 3000	55.1	55.9	58.2	60.4	63.3	64.0	64.4	65.4	65.6	65.7	65.8	65.8	65.9	66.0	66.1
≥ 2500	56.6	57.9	61.2	63.4	66.5	67.2	67.7	68.7	68.9	69.1	69.1	69.1	69.2	69.3	69.4
≥ 2000	59.1	59.9	62.8	64.9	68.1	68.9	69.4	70.6	70.9	71.0	71.1	71.1	71.2	71.2	71.3
≥ 1800	59.1	59.9	62.8	64.9	68.1	68.9	69.4	70.6	70.9	71.0	71.1	71.1	71.2	71.2	71.3
≥ 1500	61.1	62.0	64.2	66.5	69.8	70.7	71.2	72.3	72.6	72.8	72.9	72.9	72.9	73.0	73.1
≥ 1200	63.7	64.6	67.0	67.8	71.2	72.1	72.6	73.7	74.0	74.2	74.3	74.3	74.3	74.4	74.5
≥ 1000	64.1	65.2	67.6	69.3	73.2	74.1	74.6	75.8	76.0	76.3	76.3	76.3	76.4	76.5	76.6
≥ 900	64.6	65.7	67.5	69.2	73.9	74.8	75.3	76.5	76.8	77.0	77.0	77.0	77.1	77.2	77.3
≥ 800	65.1	66.3	68.1	69.9	74.9	75.9	76.4	77.6	77.8	78.1	78.1	78.1	78.2	78.3	78.4
≥ 700	67.1	68.3	69.7	71.6	75.7	76.7	77.2	78.4	78.6	78.9	78.9	78.9	79.0	79.2	79.2
≥ 600	73.4	75.7	77.8	79.9	83.7	84.7	85.2	86.3	86.6	86.9	86.9	86.9	87.0	87.1	87.2
≥ 500	74.0	76.5	78.9	81.2	85.1	86.2	86.6	87.8	88.1	88.4	88.5	88.6	88.7	88.8	88.9
≥ 400	74.4	76.9	79.5	81.8	85.8	86.9	87.3	88.5	88.8	89.1	89.2	89.3	89.4	89.5	89.6
≥ 300	74.6	77.2	79.8	82.1	86.2	87.3	87.7	88.9	89.2	89.5	89.6	89.7	89.8	89.9	90.0
≥ 200	74.6	77.2	79.8	82.1	86.2	87.3	87.7	88.9	89.2	89.5	89.6	89.7	89.8	89.9	90.0
≥ 100	74.6	77.2	79.8	82.1	86.2	87.3	87.7	88.9	89.2	89.5	89.6	89.7	89.8	89.9	90.0
≥ 0	74.6	77.2	79.8	82.1	86.2	87.3	87.7	88.9	89.2	89.5	89.6	89.7	89.8	89.9	90.0

TOTAL NUMBER OF OBSERVATIONS 2351

DISTRIBUTION: NAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.) _____

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
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TOTAL NUMBER OF OBSERVATIONS _____

OPNAVJOCEANMET — SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	0
NO CEILING		1.	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
≥ 20000			31.	32.	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 18000			31.	32.	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 16000			32.	33.	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 14000			35.	36.	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
≥ 12000			39.	41.	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 10000			41.	43.	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
≥ 9000			43.	44.	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 8000			46.	48.	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
≥ 7000			49.	50.	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
≥ 6000			49.	51.	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
≥ 5000			55.	55.	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 4500			56.	56.	56.9	56.3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 4000			57.	58.	58.8	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
≥ 3500			59.	60.	61.1	61.1	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
≥ 3000			63.	64.	65.5	65.5	66.1	66.1	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 2500			67.	69.	69.6	69.8	70.4	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8
≥ 2000			66.	68.	71.1	71.4	72.1	72.1	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 1800			66.	68.	71.1	71.4	72.1	72.1	72.4	72.4	72.4	72.4	72.4	72.4	72.4
≥ 1500			70.	72.	73.1	73.4	74.1	74.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4
≥ 1200			69.	71.	73.8	74.1	74.4	75.1	75.1	75.4	75.4	75.4	75.4	75.4	75.4
≥ 1000			71.	73.	76.1	76.4	76.7	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.7
≥ 900			73.	75.	77.7	78.1	78.4	79.1	79.1	79.4	79.4	79.4	79.4	79.4	79.4
≥ 800			73.	76.	79.4	79.7	79.7	79.7	79.7	80.1	80.1	80.1	80.1	80.1	80.1
≥ 700			74.	76.	79.7	79.7	79.7	80.1	80.1	80.4	80.4	80.4	80.4	80.4	80.4
≥ 600			77.	77.	81.7	81.7	81.7	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1
≥ 500			77.	77.	81.7	82.4	83.1	84.4	84.7	85.1	85.1	85.1	85.1	85.1	85.1
≥ 400			76.	79.	84.4	86.1	86.7	89.	89.7	91.4	91.7	91.0	91.0	91.0	91.0
≥ 300			76.	79.	85.4	87.	87.7	91.0	92.0	92.7	93.	93.4	93.4	93.4	93.4
≥ 200			76.	79.	86.1	87.7	89.	92.7	94.7	95.7	96.4	96.7	96.7	96.7	96.7
≥ 100			76.	79.	86.1	87.7	89.0	93.	95.4	97.0	98.0	98.7	99.3	99.7	100.0
≥ 0			76.	79.	86.1	87.7	89.0	93.0	95.4	97.0	98.0	98.7	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 3001

COMPUTED BY

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOUR(S) LST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
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≥ 100																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
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TOTAL NUMBER OF OBSERVATIONS

DIFFICULTY ENCOUNTERED

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS OCT MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING						79.	3 .6	3 .6	3 .6	3 .6	3 .6	3 .6	3 .6	3 .6	3 .6	3 .6
≥ 20000																
≥ 18000																
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TOTAL NUMBER OF OBSERVATIONS 8

DIRNAVOCEANMET 9M.05

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.) 1.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
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TOTAL NUMBER OF OBSERVATIONS _____ 707

DMA AVOCEANMET 9MOS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ 0
NO CEILING			39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
≥ 20000			50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 18000			51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 16000			52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
≥ 14000			54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 12000			58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 10000			60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 9000			61.4	61.4	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
≥ 8000			64.8	64.8	65.1	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 7000			65.4	65.4	65.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
≥ 6000			67.1	67.1	67.5	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
≥ 5000			71.5	71.5	71.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
≥ 4500			73.5	73.5	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 4000			77.2	77.2	77.5	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
≥ 3500			81.5	81.5	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000			88.9	88.9	89.3	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 2500			92.6	93.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.
≥ 2000			94.0	94.3	94.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1800			94.	94.3	94.6	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1500			94.6	95.	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.
≥ 1200			95.	95.6	96.	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000			95.6	96.	97.	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 900			95.6	96.	97.	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 800			96.0	96.3	97.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700			96.0	96.3	97.3	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600			96.0	96.3	97.3	98.3	98.3	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.
≥ 500			96.0	96.3	97.3	98.3	98.3	99.0	99.0	99.3	99.3	99.	99.3	99.3	99.3
≥ 400			96.	96.3	97.3	98.3	98.3	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300			96.0	96.6	97.7	98.7	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200			96.	96.6	97.7	98.7	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100			96.	96.6	97.7	98.7	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0			96.	96.6	97.7	98.7	98.7	99.3	99.7	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS L.S.T.

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS 202

DIRNAVOCEANMET 9MOS

CEILING VERSUS VISIBILITY

STATION ____ STATION NAME ____ YEARS ____ MONTH

HOURS L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	0
NO CEILING	1.	[illegible]	43.2	44.2	44.	45.4	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
≥ 20000	.	[illegible]	53.8	54.8	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 18000	.	[illegible]	53.8	54.8	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 16000	.	0.7	53.1	53.8	54.8	55.5	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
≥ 14000	.	1.4	54.1	55.5	56.5	57.2	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 12000	.	5.1	57.5	58.2	59.7	60.3	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 10000	4.1	8.5	60.3	61.4	61.9	62.0	62.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 9000	5.	8.5	61.1	62.0	63.4	64.4	64.7	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
≥ 8000	.	11.0	64.7	65.4	66.8	67.8	68.2	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 7000	.	12.7	65.8	66.4	67.8	68.8	69.2	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
≥ 6000	1.	13.7	66.8	67.5	68.8	69.9	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 5000	3.4	18.2	71.2	71.7	73.3	74.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4500	4.8	20.0	74.0	74.7	76.	77.1	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.	78.
≥ 4000	.	23.6	77.1	77.7	79.1	80.1	80.5	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
≥ 3500	1.	24.3	77.7	78.4	80.1	81.2	81.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 3000	2.	26.0	80.2	81.2	82.5	83.6	83.9	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
≥ 2500	2.1	31.2	85.3	86.3	88.7	89.7	90.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 2000	1.6	34.6	88.	89.	91.8	92.8	93.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1800	1.9	34.5	88.	89.1	91.8	92.8	93.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
≥ 1500	2.2	34.9	89.4	89.7	92.5	93.5	94.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 1200	2.9	35.6	89.7	91.1	94.2	95.2	95.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1000	3.2	36.0	90.1	91.4	94.5	95.6	96.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900	3.2	36.0	90.1	91.4	94.5	95.6	96.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	3.2	36.2	90.4	91.8	94.9	95.9	96.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 700	3.2	36.2	90.4	91.8	94.9	96.2	96.9	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	3.2	36.3	90.6	92.1	95.6	96.9	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 500	3.2	36.3	91.1	92.5	95.9	97.6	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400	3.2	36.3	91.1	92.5	95.9	97.6	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300	3.2	36.3	91.1	92.5	95.9	97.6	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200	3.2	36.3	91.1	92.5	95.9	97.6	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100	3.2	36.3	91.1	92.5	95.9	97.6	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 0	3.2	36.3	91.1	92.5	95.9	97.6	98.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	0.3

TOTAL NUMBER OF OBSERVATIONS ____

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION NO. STATION NAME YEARS MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
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≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS 2328

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ MONTH NOV

HOURS (L.S.T.) 0

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
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≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
0															

TOTAL NUMBER OF OBSERVATIONS _____ 2 9

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION NAME _____ YEARS _____ MONTH _____

HOURS (L.S.T.) _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
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≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS _____

DIPS-AVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING			37.				37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
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≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0	7.5	88.1	91.9	92.9	95.3	95.9	95.9	98.3	99.	99.	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

USNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
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≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0	3.1	6.6	9.3	12.4	94.8	95.9	96.6	98.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

FORM 0-CLEANSHEET

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000			41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 18000	1.1	1.1	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
≥ 16000		41.4	41.	41.	41.	41.	41.	41.	41.	41.	41.	41.	41.	41.	41.
≥ 14000		42.2	43.	43.	43.	43.	43.	43.	43.	43.	43.	43.	43.	43.	43.
≥ 12000		44.2	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 10000		44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 9000		44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3
≥ 8000	52.1	52.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.4	53.4	53.4	53.4	53.4
≥ 7000	53.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.5	54.5	54.5	54.5	54.5
≥ 6000	54.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.6	54.8	54.8	54.8	54.8
≥ 5000	55.1	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.9	56.9	56.9	56.9	56.9
≥ 4500	57.1	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.9	58.9	58.9	58.9	58.9	58.9
≥ 4000	63.4	64.0	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.7	64.7	64.7	64.7	64.7	64.7
≥ 3500	69.1	69.5	69.9	69.9	69.9	69.9	69.9	69.9	69.9	7 .2	7 .2	7 .2	7 .2	7 .2	7 .2
≥ 3000	79.1	7 .5	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.5	80.5	80.5	80.5	80.5	80.5
≥ 2500	85.1	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	87.0	87.0	87.0	87.0	87.0	87.
≥ 2000	87.	89.4	89.4	89.	89.7	89.7	89.7	90.1	90.1	90.1	90.4	90.4	90.4	90.4	90.4
≥ 1800	87.	89.	89.4	89.	89.7	89.7	89.7	90.1	90.1	90.1	90.4	90.4	90.4	90.4	90.4
≥ 1500	89.4	9 .1	.4	91.4	1.4	91.4	92.1	92.5	92.5	92.9	93.2	93.2	93.2	93.2	93.2
≥ 1200	9 .7	9 .4	1.1	91.5	1.5	91.5	92.5	92.9	92.9	93.5	93.5	93.5	93.5	93.5	93.5
≥ 1000	9 .7	91.4	92.1	2.1	92.1	2.8	93.5	94.2	94.2	94.9	94.9	94.9	94.9	94.9	94.9
≥ 900	91.4	92.5	2.5	92.5	93.2	93.9	94.5	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
≥ 800	91.1	92.5	92.5	92.5	92.5	93.9	94.5	95.2	95.2	95.9	95.9	95.9	95.9	95.9	95.9
≥ 700	91.1	92.1	92.9	92.9	93.2	93.8	94.9	95.6	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 600	91.1	92.5	93.5	93.5	93.9	94.6	96.2	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 500	91.1	92.5	94.2	94.2	94.5	95.	97.3	98.0	98.0	98.6	99.0	99.0	99.	99.	99.
≥ 400	91.1	92.5	94.2	94.2	94.5	96.2	97.6	98.3	99.3	99.3	99.3	99.3	99.3	99.3	99.
≥ 300	91.1	92.5	94.2	94.2	94.5	96.2	98.	98.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	91.1	92.5	94.2	94.2	94.5	96.2	98.	98.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	91.1	92.5	94.2	94.2	94.5	96.2	98.	98.6	99.7	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	91.1	92.5	94.2	94.2	94.5	96.2	98.	98.6	99.7	100.0	100.0	100.0	100.0	100.0	100.

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES): ≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1	≥¾	≥½	≥5/16	<5/16	0
NO CEILING														
≥ 20000														
≥ 18000														
≥ 16000														
≥ 14000														
≥ 12000														
≥ 10000														
≥ 9000														
≥ 8000														
≥ 7000														
≥ 6000														
≥ 5000														
≥ 4500														
≥ 4000														
≥ 3500														
≥ 3000														
≥ 2500														
≥ 2000														
≥ 1800														
≥ 1600														
≥ 1400														
≥ 1200														
≥ 1000														
≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500														
≥ 400														
≥ 300														
≥ 200														
≥ 100														
≥ 0														

TOTAL NUMBER OF OBSERVATIONS

PART E PSYCHROMETRIC SUMMARIES

[illegible] are presented various frequencies of dry- and wet-bulb temperature, dew-point, and relative humidity. The format and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for the period of record. These tabulations provide the cumulative percentage frequency to tenths of [illegible] degree Fahrenheit increment, plus mean temperature, standard deviation, and total number of observations. Listed in these separate tables are as follows:

   a. Daily maximum temperature
   b. Daily minimum temperature
   c. Daily mean temperature

2. Extreme values - derived from daily observations with extreme value given for each year and month of record [illegible]. Extreme values given for each month for each year contain valid observations. All months for each year that have valid extreme values the annual value is selected for that year. Means and standard deviations are computed for each month and annual mean for extreme value are presented for any column. The table of daily extreme temperatures are prepared:

   a. Extreme maximum temperature
   b. Extreme minimum temperature

   NOTE: A supplementary list also provides extreme temperatures [illegible] when a full month is reported.

   [illegible] frequency [illegible] temperatures [illegible] wet-bulb temperatures [illegible] dew-point temperatures [illegible] relative humidity [illegible] annual [illegible] hourly observations [illegible] period of record [illegible].

3. The values in the means and the five bivariate percentage frequency distribution of wet-bulb temperature is in 1°F values spread horizontally; by 5-degree intervals of dry-bulb temperature vertically. The [illegible] for each dry-bulb temperature interval is the number of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperature separately. The observations for each of these [illegible] are provided in two lines at end of each tabulation table, [illegible] three lines in some cases.

   NOTE: A zero entered frequency in this table [illegible] represent one or more occurrence amounting to less than .05 percent.

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | ALL MONTH | ALL HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES														
	≥10	≥6	≥5	≥4	≥3	≥2½	≥2	≥1½	≥1¼	≥1	≥¾	≥½	≥5/16	≥¼	≥0
NO CEILING	•	•	•	•	•	1.•	31.7	31.9	31.9	31.•	32.•	32.•	32.•	32.•	•
≥ 20000	•	•	•	•	41.•	41.•	41.•	41.4	41.5	41.•	41.5	41.5	41.6	41.•	41.5
≥ 18000	•	•	•	•	41.1	41.•	41.5	41.7	41.•	41.•	41.•	41.8	41.9	41.•	41.9
≥ 16000	•	•	•	•	41.•	41.•	42.•	42.•	42.•	42.•	42.3	42.3	42.4	42.4	42.4
≥ 14000	•	•	•	41.•	42.•	43.1	43.•	43.5	43.•	43.•	43.6	43.7	43.7	43.7	43.7
≥ 12000	•	•	•	•	•	45.•	45.7	46.•	46.•	46.1	46.1	46.1	46.2	46.2	46.2
≥ 10000	•	•	•	•	•	47.9	48.1	48.4	48.5	48.5	48.6	48.6	48.6	48.6	48.7
≥ 9000	•	•	•	•	•	49.•	49.2	49.6	49.•	49.7	49.7	49.7	49.7	49.8	49.•
≥ 8000	•	•	•	•	•	51.7	52.•	52.3	52.4	52.4	52.4	52.5	52.5	52.5	52.•
≥ 7000	•	•	•	•	1.7	52.4	52.6	52.9	53.3	53.•	53.4	53.4	53.4	53.5	53.5
≥ 6000	•	•	•	•	1.8	53.3	53.6	54.•	54.•	54.1	54.1	54.1	54.1	54.2	54.2
≥ 5000	•	•	•	•	55.1	56.7	56.•	56.5	57.7	57.4	57.4	57.5	57.5	57.6	57.6
≥ 4500	•	•	•	•	57.1	58.5	58.•	59.1	59.5	59.6	59.7	59.7	59.7	59.•	59.8
≥ 4000	•	•	•	•	60.1	61.•	61.2	61.8	62.3	62.4	62.4	62.5	62.5	62.•	62.6
≥ 3500	•	•	•	•	64.4	64.•	65.2	65.7	65.9	65.•	65.9	65.9	65.9	66.•	66.0
≥ 3000	•	•	•	•	69.5	69.9	70.3	70.4	71.•	71.1	71.1	71.2	71.2	71.•	71.•
≥ 2500	•	•	•	•	74.3	75.4	75.9	76.5	76.7	76.4	76.3	76.9	77.•	77.•	77.•
≥ 2000	•	•	•	•	74.7	74.4	75.9	76.5	76.•	81.•	81.2	81.3	81.4	81.4	81.4
≥ 1800	•	•	•	•	76.8	79.•	80.3	80.7	81.1	81.3	81.4	81.5	81.5	81.6	81.•
≥ 1500	•	•	•	•	80.4	1.•	81.9	82.•	82.•	83.5	83.6	83.7	83.8	83.•	83.9
≥ 1200	•	•	•	•	91.1	2.•	2.6	3.7	84.•	84.3	84.4	84.5	84.6	84.•	84.7
≥ 1000	•	•	•	•	93.1	3.1	83.7	85.•	85.4	5.7	85.9	86.•	86.1	86.1	86.2
≥ 900	•	•	•	•	93.2	3.4	84.1	85.3	85.•	86.1	86.3	86.4	86.5	86.6	86.6
≥ 800	•	•	•	•	93.•	84.1	84.8	86.2	86.6	87.•	87.3	87.4	87.5	87.6	87.6
≥ 700	•	•	•	•	93.5	4.7	85.4	86.8	87.3	87.7	88.•	88.1	88.2	88.2	88.•
≥ 600	•	•	•	•	94.3	5.•	86.3	87.8	88.3	88.7	89.1	89.3	89.4	89.5	89.5
≥ 500	•	•	•	•	95.5	6.5	87.5	89.2	89.9	90.4	91.•	91.•	91.1	91.3	91.3
≥ 400	•	•	•	•	96.1	7.6	88.7	90.7	91.4	92.•	92.5	92.8	92.9	93.1	93.2
≥ 300	•	•	•	•	96.•	8.4	89.7	92.1	92.9	93.7	94.3	94.5	94.7	95.•	95.1
≥ 200	•	•	•	•	97.1	8.9	90.4	93.2	94.2	95.2	95.8	96.2	96.4	96.7	96.8
≥ 100	•	•	•	•	97.5	9.•	90.6	93.7	94.9	96.1	97.•	97.5	97.8	98.•	98.2
≥ 0	•	•	•	•	97.2	9.•	90.6	93.7	94.9	96.1	97.•	97.5	97.8	98.8	99.1

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION STATION NAME YEARS MONTH HOURS LST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING			.1	3 .4	5 .7	31 .9	34 .0	34 .1	34 .1	34 .1	34 .1	34 .1	34 .2	34 .2	34 .2	34 .2
≥ 20000		.1	.4	5 .7	38 .2	39 .3	39 .4	39 .4	39 .4	39 .4	39 .4	39 .4	39 .4	39 .4	39 .4	39 .4
≥ 18000		.1	.4	5 .7	38 .2	39 .3	39 .4	39 .4	39 .4	39 .4	39 .4	39 .4	39 .5	39 .5	39 .5	39 .5
≥ 16000		.1	.5	5 .8	38 .2	39 .3	39 .6	39 .6	39 .7	39 .7	39 .7	39 .7	39 .7	39 .7	39 .7	39 .7
≥ 14000		.1	.5	5 .8	38 .2	39 .3	39 .6	39 .6	39 .7	39 .7	39 .7	39 .7	39 .7	39 .7	39 .7	39 .7
≥ 12000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 10000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 9000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 8000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 7000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 6000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 5000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 4500		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 4000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 3500		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 3000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 2500		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 2000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 1800		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 1500		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 1200		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 1000		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 900		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 800		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 700		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 600		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 500		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 400		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 300		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 200		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 100		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8
≥ 0		.4	.7	5 .1	5 .4	40 .7	41 .7	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8	41 .8

TOTAL NUMBER OF OBSERVATIONS 2404

USWB A - CLIMATOLOGY (FORM 10)

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | DEC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

21 HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	.	[illegible]	37.6	[illegible]	[illegible]	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
≥ 20000	1.	41.6	42.2	42.2	42.2	42.2	42.2	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 18000	1.	41.7	42.6	42.6	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 16000	1.	41.9	42.6	42.6	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 14000	1.	42.2	42.9	42.9	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 12000	.	43.2	43.2	43.2	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
≥ 10000	4.2	44.2	45.5	45.5	46.2	46.2	46.2	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 9000	4.2	45.2	45.9	45.9	46.5	46.5	46.5	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
≥ 8000	.	46.2	47.5	46.5	47.2	47.2	47.2	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 7000	.	47.2	47.9	47.9	48.5	48.5	48.5	48.8	48.9	48.8	48.8	48.8	48.8	48.9	48.9	48.8
≥ 6000	.	48.2	48.8	48.8	49.5	49.5	49.5	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
≥ 5000	.	53.7	54.1	54.1	54.9	54.9	54.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 4500	5.1	55.5	56.2	56.2	57.4	57.4	57.4	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
≥ 4000	.5	59.1	60.1	60.1	61.2	61.2	61.2	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
≥ 3500	4.7	64.7	65.7	65.7	66.3	66.7	66.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
≥ 3000	5.4	71.0	72.0	72.3	73.3	73.6	73.9	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
≥ 2500	.5	77.2	78.6	78.9	80.9	81.2	81.5	82.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
≥ 2000	.	[illegible]	84.2	84.8	87.5	88.1	88.5	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1800	.5	2.5	84.2	84.8	87.5	88.1	88.5	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1500	2.2	4.5	86.8	87.5	90.4	91.4	92.1	92.7	93.4	93.4	93.4	93.7	93.7	93.7	93.7	93.7
≥ 1200	.2	4.5	86.8	87.5	90.4	91.4	92.4	93.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1
≥ 1000	2.2	4.5	87.1	88.1	91.1	92.1	93.1	94.4	95.1	95.4	95.7	96.0	96.0	96.0	96.0	96.0
≥ 900	2.2	4.6	87.1	88.1	91.1	92.1	93.1	94.4	95.1	95.4	95.7	96.0	96.0	96.0	96.0	96.0
≥ 800	2.5	4.8	87.1	88.1	91.1	92.1	93.1	94.4	95.1	95.7	96.0	96.4	96.4	96.4	96.4	96.4
≥ 700	2.5	4.8	87.1	88.5	91.4	92.4	93.4	94.7	95.4	96.0	96.4	96.7	96.7	96.7	96.7	96.7
≥ 600	2.5	4.8	87.1	88.8	91.8	92.7	93.7	95.1	95.7	96.4	96.7	97.0	97.1	97.0	97.0	97.0
≥ 500	2.5	4.8	87.1	88.8	92.1	93.1	94.1	95.4	96.0	97.7	98.4	99.0	99.0	99.0	99.0	99.0
≥ 400	2.5	4.8	87.1	88.8	92.1	93.1	94.1	95.4	96.0	97.7	98.4	99.0	99.0	99.0	99.0	99.0
≥ 300	2.5	4.8	87.1	88.8	92.4	93.4	94.4	95.7	96.7	98.4	99.0	99.7	100.0	100.0	100.0	100.0
≥ 200	2.5	4.8	87.1	88.8	92.4	93.4	94.4	95.7	96.7	98.4	99.0	99.7	100.0	100.0	100.0	100.0
≥ 100	2.5	4.8	87.1	88.8	92.4	93.4	94.4	95.7	96.7	98.4	99.0	99.7	100.0	100.0	100.0	100.0
≥ 0	2.5	4.8	87.1	88.8	92.4	93.4	94.4	95.7	96.7	98.4	99.0	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS ____ 303

[illegible]AVICEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH | HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.	.	.	.	30.	30.	31.1	31.1	31.1	31.1	31.1	31.1	31.5	31.5	31.5	31.5
≥ 20000	.	39.7	39.1	39.1	39.1	39.1	39.4	39.4	39.4	39.4	39.4	39.4	39.7	39.7	39.7	39.7
≥ 18000	.	39.7	39.1	39.1	39.1	39.1	39.4	39.4	39.4	39.4	39.4	39.4	39.7	39.7	39.7	39.7
≥ 16000	.1	40.1	39.4	39.4	39.4	39.4	39.7	39.7	39.7	39.7	39.7	39.7	40.1	40.1	40.1	40.1
≥ 14000	.	39.7	40.1	40.1	40.1	40.1	40.4	40.4	40.4	40.4	40.4	40.4	40.7	40.7	40.7	40.7
≥ 12000	1.4	41.4	41.7	41.7	41.7	41.7	42.1	42.1	42.1	42.1	42.1	42.1	42.4	42.4	42.4	42.4
≥ 10000	2.4	43.4	43.7	44.0	44.0	44.0	44.4	44.4	44.4	44.4	44.4	44.4	44.7	44.7	44.7	44.7
≥ 9000	.	44.4	44.4	44.7	44.7	44.7	45.0	45.0	45.0	45.0	45.0	45.0	45.4	45.4	45.4	45.4
≥ 8000	.4	46.4	47.0	47.4	47.4	47.4	47.7	47.7	47.7	47.7	47.7	47.7	48.0	48.0	48.0	48.0
≥ 7000	.7	46.7	47.4	47.7	47.7	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.3	48.3	48.3	48.3
≥ 6000	.	48.	49.7	49.	49.	49.	49.3	49.3	49.3	49.3	49.3	49.3	49.7	49.7	49.7	49.7
≥ 5000	.7	49.7	50.3	50.7	50.7	50.7	51.	51.	51.0	51.0	51.0	51.0	51.3	51.3	51.3	51.3
≥ 4500	2.0	53.	53.6	54.	54.	54.0	54.3	54.3	54.3	54.3	54.3	54.3	54.6	54.6	54.6	54.6
≥ 4000	.	58.3	59.9	59.3	59.3	59.3	59.6	59.6	59.6	59.6	59.6	59.6	59.9	59.9	59.9	59.
≥ 3500	3.	63.6	64.2	64.6	64.6	64.6	64.9	65.2	65.2	65.2	65.2	65.2	65.6	65.6	65.6	65.6
≥ 3000	.	69.3	70.5	70.	71.2	71.2	71.5	72.2	72.2	72.2	72.2	72.2	72.5	72.5	72.5	72.5
≥ 2500	7.7	77.5	78.5	7 .8	79.5	79.5	79.8	80.5	80.5	80.5	80.5	80.5	80.8	80.8	80.8	80.8
≥ 2000	.1	82.5	84.1	84.8	86.8	86.8	87.4	88.7	88.7	88.7	89.1	89.1	89.4	89.4	89.4	89.4
≥ 1800	.1	82.5	84.1	84.8	86.8	86.8	87.4	88.7	88.7	88.7	89.1	89.1	89.4	89.4	89.4	89.4
≥ 1500	4.4	84.4	86.4	87.4	9 .1	89.4	91.1	92.4	93.1	93.4	93.7	93.7	94.7	94.7	94.7	94.7
≥ 1200	4.4	84.4	86.4	87.4	9 .1	89.4	91.1	92.4	93.1	93.4	94.0	94.0	95.0	95.0	95.0	95.0
≥ 1000	4.4	84.4	86.4	87.4	9 .1	89.4	91.1	92.4	93.1	93.4	94.	94.4	95.4	95.4	95.4	95.4
≥ 900	4.4	85.1	86.4	87.8	90.4	91.7	91.4	92.7	93.4	93.7	94.4	94.7	95.7	95.7	95.7	95.7
≥ 800	5.1	85.8	87.4	88.7	91.4	91.7	92.4	94.0	94.7	95.0	95.7	96.0	97.4	97.4	97.4	97.4
≥ 700	5.1	85.	87.4	88.7	91.4	91.7	92.4	94.0	94.7	95.0	95.7	96.4	97.7	98.0	98.0	98.0
≥ 600	5.4	86.1	87.8	89.1	91.7	92.1	92.7	94.4	95.0	95.4	96.0	96.7	98.0	98.3	98.3	98.3
≥ 500	5.4	86.1	87.8	89.1	91.7	92.1	92.7	94.7	95.4	95.7	96.7	97.4	99.7	99.7	99.7	99.7
≥ 400	5.4	86.1	87.8	89.1	91.7	92.1	92.7	94.7	95.4	95.7	96.7	97.4	98.7	99.7	99.7	99.7
≥ 300	5.4	86.1	87.8	89.1	91.7	92.1	92.7	94.7	95.4	96.0	97.0	97.7	99.0	100.0	100.0	100.0
≥ 200	5.4	86.1	87.8	89.1	91.7	92.1	92.7	94.7	95.4	96.0	97.0	97.7	99.0	100.0	100.0	100.0
≥ 100	5.4	86.1	87.8	89.1	91.7	92.1	92.7	94.7	95.4	96.	97.0	97.7	99.0	100.0	100.0	100.0
≥ 0	5.4	86.1	87.8	89.1	91.7	92.1	92.7	94.7	95.4	96.	97.0	97.7	99.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

DIHNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION _____ STATION NAME _____ YEARS _____ DEC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

1 HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING	.	1.	31.	71.	31.4	71.	31.4	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
≥ 20000	.	4 .6	4 .6	4 .6	40.9	40.9	40.9	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.	41.3 41.3
≥ 18000	.	4 .5	4 .6	4 .6	40.9	40.9	40.9	41.3	41.3	41.	41.3	41.3	41.3	41.3	41.3	41.3 41.3
≥ 16000	1.	41.6	41.6	41.6	41.9	41.9	41.9	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2 42.2
≥ 14000	1.	41.9	41.9	41.9	42.2	42.2	42.2	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6 42.6
≥ 12000	1.	43.2	43.2	43.6	43.6	43.6	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9 43.9
≥ 10000	4.	44.9	44.9	44.9	45.2	45.2	45.2	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5 45.5
≥ 9000	.	46.5	46.5	46.5	46.9	46.9	46.9	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2 47.2
≥ 8000	.	48.5	48.5	48.5	48.8	48.8	48.9	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2 49.2
≥ 7000	.	49.5	49.5	49.5	50.2	50.2	50.2	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5 50.5
≥ 6000	.	51.2	51.2	51.2	51.8	51.8	51.8	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2 51.2
≥ 5000	3.	53.	53.1	54.1	54.8	54.8	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1 55.1
≥ 4500	3.	56.1	56.1	56.4	57.1	57.1	57.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4 57.4
≥ 4000	.1	0.4	60.4	60.7	61.4	61.4	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7 61.7
≥ 3500	4.	64.7	64.7	65.0	65.7	65.7	65.7	66.0	66.	66.0	66.0	66.0	66.0	66.0	66.0	66.0 66.0
≥ 3000	.	68.3	68.3	68.6	70.4	70.6	70.6	71.2	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.
≥ 2500	4.	76.6	7 .6	77.2	78.2	78.2	78.2	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
≥ 2000	.	.5	83.2	83.2	84.8	85.3	85.3	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8 86.8
≥ 1800	.	.5	85.2	85.2	86.8	85.3	85.8	86.3	86.9	86.8	86.8	86.8	86.8	86.8	86.8	86.8 86.8
≥ 1500	.	3.2	86.5	86.8	88.8	90.4	90.5	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7 92.7
≥ 1200	.	93.5	95.8	97.1	89.4	91.1	91.4	93.1	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7 93.7
≥ 1000	.	93.	95.8	97.1	89.8	91.4	92.1	94.1	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7 94.7
≥ 900	.	93.5	95.8	97.1	89.8	91.4	92.1	94.1	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7 94.7
≥ 800	3.2	3.8	36.1	87.5	90.1	91.8	92.4	94.7	95.1	95.4	95.4	95.7	95.7	95.7	95.7	95.7 95.7
≥ 700	3.2	3.8	86.1	87.5	90.1	91.8	92.4	94.7	95.1	95.4	95.4	95.7	95.7	95.7	95.7	95.7 95.7
≥ 600	3.2	3.8	86.1	87.5	90.1	91.8	92.4	95.4	95.7	96.0	96.4	96.7	96.7	96.7	96.7	96.7 96.7
≥ 500	3.2	3.8	86.1	87.5	90.4	92.1	93.4	96.7	97.0	97.7	98.0	98.4	98.7	98.7	99.0	99.
≥ 400	3.2	3.8	86.1	87.5	9 .8	92.4	93.7	97.0	97.4	98.0	98.4	98.7	99.0	99.0	99.7	99.7
≥ 300	3.2	3.8	86.1	87.5	9 .8	92.4	93.7	97.0	97.4	98.0	98.4	98.7	99.0	99.0	99.7	99.7
≥ 200	3.2	3.8	86.1	87.5	9 .8	92.4	93.7	97.0	97.4	98.0	98.4	98.7	99.0	99.3	100.0	100.0
≥ 100	3.2	3.8	86.1	87.5	9 .8	92.4	93.7	97.0	97.4	98.0	98.4	98.7	99.0	99.3	100.0	100.0
≥ 0	3.2	3.8	86.1	87.5	90.8	92.4	93.7	97.0	97.4	98.0	98.4	98.7	99.0	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS _____ 273

DIRNAVOCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | DEC MONTH | HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1¼	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ⅛	≥ 0
NO CEILING					34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.7
≥ 20000				41.3	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	42.
≥ 18000				41.3	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	42.
≥ 16000				41.3	41.3	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	42.0
≥ 14000			41.3	41.7	41.7	42.	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.3
≥ 12000		41.3	42.	42.	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.7
≥ 10000		43.3	43.3	43.3	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	44.0
≥ 9000		43.3	43.3	44.3	44.3	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	45.0
≥ 8000		43.3	43.3	44.0	44.0	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.7
≥ 7000		43.7	43.7	44.0	44.0	49.3	49.3	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	50.0
≥ 6000		43.7	43.7	44.0	50.0	50.3	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	51.0
≥ 5000		53.7	53.7	54.7	54.7	55.0	55.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.7
≥ 4500		57.7	57.7	58.3	58.7	59.0	59.0	59.3	59.7	60.0	60.3	60.3	60.3	60.3	60.3	60.7
≥ 4000		62.7	62.7	63.3	64.7	65.7	66.	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.7
≥ 3500		65.3	65.3	66.	67.3	68.3	68.7	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.3
≥ 3000		70.3	70.3	71.0	72.3	73.7	74.	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.0
≥ 2500	76.3	76.3	77.3	78.0	81.7	82.0	82.0	82.7	82.7	82.7	83.0	83.0	83.0	83.0	83.0	83.3
≥ 2000	78.3	78.3	82.3	84.0	87.0	87.3	87.3	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.7
≥ 1800	78.7	78.7	82.7	84.3	87.3	87.3	88.0	88.3	89.3	89.7	90.0	90.0	90.0	90.0	90.0	90.3
≥ 1500	79.3	79.7	84.0	86.0	90.0	91.0	91.0	93.3	93.3	93.7	94.3	94.3	94.3	94.3	94.3	94.7
≥ 1200	79.3	79.7	84.0	86.0	90.0	91.0	91.0	93.3	93.3	94.0	95.0	95.0	95.0	95.0	95.0	95.3
≥ 1000	79.7	81.0	84.3	86.3	90.7	92.0	92.3	94.7	94.7	95.3	96.3	96.3	96.7	96.7	96.7	97.0
≥ 900	79.7	81.0	84.3	86.3	90.7	92.0	92.3	94.7	94.7	95.3	96.3	96.3	96.7	96.7	96.7	97.0
≥ 800	79.7	81.0	84.3	86.3	90.7	92.0	92.3	94.7	94.7	95.7	96.7	96.7	97.3	97.3	97.3	97.7
≥ 700	79.7	81.0	84.3	86.3	90.7	92.0	92.7	95.0	95.0	96.0	97.0	97.0	97.7	97.7	97.7	98.0
≥ 600	79.7	81.0	84.7	86.7	91.0	92.3	93.0	95.3	95.3	96.3	97.3	97.3	98.0	98.3	98.3	98.7
≥ 500	79.7	81.0	84.7	86.7	91.0	92.3	93.0	95.3	95.7	96.7	98.0	98.0	98.7	99.0	99.0	99.3
≥ 400	79.7	81.0	84.7	86.7	91.0	92.3	93.0	95.3	95.7	96.7	98.0	98.0	98.7	99.0	99.0	99.3
≥ 300	79.7	81.0	84.7	86.7	91.0	92.3	93.0	95.7	96.0	97.0	98.3	98.3	99.0	99.7	99.7	100.0
≥ 200	79.7	81.0	84.7	86.7	91.0	92.3	93.0	95.7	96.0	97.0	98.3	98.3	99.0	99.7	99.7	100.0
≥ 100	79.7	81.0	84.7	86.7	91.0	92.3	93.0	95.7	96.0	97.0	98.3	98.3	99.0	99.7	99.7	100.0
≥ 0	79.7	81.0	84.7	86.7	91.0	92.3	93.0	95.7	96.0	97.0	98.3	98.3	99.0	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS ____ 0

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION ____ STATION NAME ____ YEARS ____ MONTH D[illegible]

HOURS [illegible]

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	[illegible]	35.2	35.2	35.2	35.2	[illegible]	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
≥ 20000	[illegible]	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 18000	[illegible]	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 16000	[illegible]	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 14000	[illegible]	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 12000	[illegible]	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
≥ 10000	[illegible]	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9
≥ 9000	[illegible]	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
≥ 8000	[illegible]	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
≥ 7000	[illegible]	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
≥ 6000	[illegible]	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 5000	[illegible]	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
≥ 4500	[illegible]	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
≥ 4000	[illegible]	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
≥ 3500	[illegible]	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 3000	[illegible]	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 2500	[illegible]	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2000	[illegible]	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1800	[illegible]	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1500	[illegible]	91.0	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
≥ 1200	[illegible]	92.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1000	[illegible]	94.0	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
≥ 900	[illegible]	94.4	94.4	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 800	[illegible]	94.4	94.7	95.4	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 700	[illegible]	94.7	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 600	[illegible]	95.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500	[illegible]	97.3	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 400	[illegible]	97.7	98.0	98.7	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 300	[illegible]	97.7	98.0	98.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.7
≥ 200	[illegible]	97.7	98.0	98.7	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.7	100.0
≥ 100	[illegible]	97.7	98.0	98.7	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0
≥ 0	[illegible]	97.7	98.0	98.7	99.0	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS ____ 701

[illegible]

CEILING VERSUS VISIBILITY

STATION ____ STATION NAME ____ YEARS ____ MONTH DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST) 01

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.	1.	31.7	31.3	31.	31.7	31.7	31.3	31.7	31.3	31.3	31.3	31.3	31.3	31.3
≥ 20000	.	34.	34.	34.0	34.	34.	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.
≥ 18000	.	34.	34.	34.0	34.	34.	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.
≥ 16000	.	34.	34.	34.	34.	34.	34.0	34.0	34.0	34.0	34.0	34	34.0	34.0	34.
≥ 14000	.	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34	34.4	34.4	34.4
≥ 12000	34.	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 10000	34.	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 9000	.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 8000	.1	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2	39.2
≥ 7000	.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
≥ 6000	.2	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
≥ 5000	.	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 4500	.1	48.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
≥ 4000	.2	53.0	54.3	54.6	54.6	54.6	54.6	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6
≥ 3500	5.7	56.7	57.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 3000	1.	62.7	63.9	64.6	65.0	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 2500	1.	72.9	74.5	75.3	76.0	77.0	77.0	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 2000	7.4	81.1	83.9	84.9	86.3	88.0	88.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1800	7.4	81.1	83.9	84.9	86.3	88.3	88.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 1500	7.4	82.1	84.9	86.3	88.3	90.7	91.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 1200	7.4	82.5	85.2	86.6	88.7	91.1	91.4	93.8	93.8	93.8	93.4	93.8	93.8	93.8	93.8
≥ 1000	7.4	82.5	85.6	86.9	89.	91.4	92.1	94.5	94.5	94.5	94.9	94.9	94.9	94.9	94.9
≥ 900	7.4	82.5	85.6	86.9	89.	91.4	92.1	94.5	94.5	94.5	94.9	94.9	94.9	94.9	94.9
≥ 800	7.4	82.5	85.6	86.9	89.0	91.4	92.1	94.5	94.5	94.9	95.2	95.5	95.5	95.5	95.5
≥ 700	7.4	82.5	85.6	86.9	89.0	91.4	92.1	94.5	94.5	94.9	95.2	95.5	95.5	95.5	95.5
≥ 600	7.4	82.5	85.6	86.9	89.0	91.4	92.1	94.5	94.5	94.9	95.2	95.5	95.5	95.5	95.5
≥ 500	7.4	82.5	85.6	86.9	89.4	91.8	92.4	95.2	95.5	95.9	96.6	96.9	96.9	97.6	97.6
≥ 400	7.4	82.5	85.6	86.9	89.4	91.8	92.4	95.5	95.9	96.2	97.3	97.6	97.6	98.3	98.3
≥ 300	7.4	82.5	85.6	86.9	89.4	91.8	92.4	95.5	95.9	96.2	97.3	97.6	97.6	98.6	99.0
≥ 200	7.4	82.5	85.6	86.9	89.4	91.8	92.4	95.5	95.9	96.2	97.6	97.9	97.9	99.0	99.7
≥ 100	7.4	82.5	85.6	86.9	89.4	91.8	92.4	95.5	95.9	96.2	97.6	97.9	97.9	99.0	100.0
≥ 0	7.4	82.5	85.6	86.9	89.4	91.8	92.4	95.5	95.9	96.2	97.6	97.9	97.9	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS ____ 1

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	0
NO CEILING	.1	9.4	35.4	35.4	35.1	6.1	35.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 20000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 18000	.1	28.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 16000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 14000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 12000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 10000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 9000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 8000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 7000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 6000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 5000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 4500	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 4000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 3500	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 3000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 2500	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 2000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 1800	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 1500	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 1200	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 1000	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 900	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 800	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 700	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 600	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 500	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 400	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 300	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 200	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 100	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 0	.1	29.1	37.1	37.1	37.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7

TOTAL NUMBER OF OBSERVATIONS 3042

DMNAVOCEANMET 5MOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.	.1	3[illegible]	[illegible]	[illegible]	[illegible]	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
≥ 20000	.	.1	43.2	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 18000	.	.1	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 16000	.	.1	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
≥ 14000	.	.1	44.1	44.1	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.3	44.3	44.3	44.3	44.3
≥ 12000	.	.1	45.2	45.4	45.4	45.4	45.4	45.5	45.6	45.6	45.6	45.9	45.9	45.9	45.9	45.9
≥ 10000	.	.1	47.2	47.4	47.4	47.4	47.4	48.4	48.4	48.4	48.5	48.5	48.5	48.5	48.5	48.5
≥ 9000	.	.1	48.6	49.2	49.4	49.4	49.4	49.5	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6
≥ 8000	.	.2	50.[illegible]	51.2	51.[illegible]	1.[illegible]	51.[illegible]	51.9	51.9	51.9	51.9	52.0	52.0	52.0	52.0	52.0
≥ 7000	.	1.1	51.7	52.1	52.2	52.2	52.2	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 6000	.	1.1	52.3	52.6	52.7	52.7	52.7	52.8	53.3	53.3	53.3	53.4	53.4	53.4	53.4	53.4
≥ 5000	.	5.1	56.7	57.3	57.3	57.3	57.3	57.4	57.4	57.5	57.5	57.6	57.6	57.6	57.6	57.6
≥ 4500	.	5.6	6[illegible]	[illegible]	61.5	61.5	61.5	61.6	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8
≥ 4000	.7	65.7	66.6	67.2	67.8	67.8	67.9	67.9	68.0	68.0	68.1	68.2	68.2	68.2	68.2	68.2
≥ 3500	.	69.4	7[illegible]	70.[illegible]	71.[illegible]	71.6	71.6	71.7	71.8	71.8	71.9	72.0	72.0	72.0	72.0	72.0
≥ 3000	.	76.5	77.4	78.2	78.9	78.9	79.0	79.2	79.2	79.3	79.3	79.4	79.4	79.4	79.4	79.4
≥ 2500	.	83.7	84.5	85.6	86.4	86.5	86.6	86.7	87.0	87.1	87.2	87.3	87.3	87.3	87.3	87.3
≥ 2000	.	85.4	87.1	88.4	89.4	89.8	89.9	90.0	90.4	90.6	90.8	90.8	90.9	90.9	90.9	90.9
≥ 1800	.1	85.5	87.3	88.6	89.8	90.0	90.1	90.6	90.7	91.0	91.0	91.1	91.1	91.1	91.1	91.1
≥ 1500	.	.6	88.6	90.1	91.5	91.9	92.0	92.7	93.1	93.3	93.5	93.7	93.7	93.7	93.7	93.7
≥ 1200	.4	7.	89.1	90.5	92.1	92.5	92.6	93.4	93.8	94.0	94.2	94.3	94.3	94.3	94.3	94.3
≥ 1000	.5	7.1	89.4	91.0	92.8	93.3	93.5	94.5	95.0	95.3	95.6	95.8	95.8	95.8	95.8	95.8
≥ 900	.5	7.1	89.6	91.1	93.	93.5	93.7	94.7	95.3	95.6	95.9	96.1	96.1	96.1	96.1	96.1
≥ 800	.5	7.1	89.6	91.3	93.3	93.8	94.1	95.1	95.7	96.0	96.3	96.5	96.5	96.5	96.5	96.5
≥ 700	.5	7.1	89.6	91.4	93.4	94.	94.2	95.3	96.[illegible]	96.3	96.6	96.9	96.9	96.9	96.9	96.9
≥ 600	.5	7.3	89.8	91.6	93.7	94.4	94.7	95.8	96.7	97.	97.3	97.7	97.7	97.7	97.7	97.7
≥ 500	.5	7.3	90.0	91.8	94.3	95.1	95.5	96.7	97.7	98.1	98.5	98.6	98.8	98.9	98.9	98.9
≥ 400	.5	87.4	90.0	91.9	94.4	95.3	95.7	97.0	98.[illegible]	98.4	98.9	99.2	99.3	99.4	99.4	99.4
≥ 300	.5	87.4	90.1	91.9	94.5	95.4	95.8	97.2	98.3	98.6	99.2	99.6	99.7	99.8	99.8	99.8
≥ 200	.5	87.4	90.1	91.9	94.5	95.4	95.8	97.2	98.4	98.8	99.4	99.7	99.8	99.9	100.0	100.0
≥ 100	.	87.4	9[illegible]	91.9	94.5	95.4	95.8	97.2	98.4	98.8	99.4	99.8	99.8	100.0	100.0	100.0
≥ 0	.5	87.4	9[illegible]	91.9	94.5	95.4	95.8	97.2	98.4	98.8	99.4	99.8	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2 14

FURNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000															
≥ 18000															
≥ 16000															
≥ 14000															
≥ 12000															
≥ 10000															
≥ 9000															
≥ 8000															
≥ 7000															
≥ 6000															
≥ 5000															
≥ 4500															
≥ 4000															
≥ 3500															
≥ 3000															
≥ 2500															
≥ 2000															
≥ 1800															
≥ 1500															
≥ 1200															
≥ 1000															
≥ 900															
≥ 800															
≥ 700															
≥ 600															
≥ 500															
≥ 400															
≥ 300															
≥ 200															
≥ 100															
≥ 0															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION | STATION NAME | YEARS | MONTH

HOURS L.S.T.

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
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≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DIFFERENCE ENTRIES

c. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum x^2$), sums of values ($\sum X$), means ($\bar{X}$), and standard deviations (σx). The number of observations used in the computations for each element is also shown.

d. At the lower right of the form are given the mean number of hours of occurrence for the ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1948. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual summaries at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

a. Dry-bulb temperature
b. Wet-bulb temperature
c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity, by increments of 1% class-es, plus the mean relative humidity and total number of observations in two tables.

a. Table I is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table II is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All hours are also combined for the summary.

[illegible] - [illegible] (see page).

DAILY TEMPERATURES

STATION: MISAWA, JAPAN STATION NAME — 45-72, 78-80 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
95							.4	.6					.1
90						.1	4.3	6.7	.5				1.0
85					.2	.6	18.1	26.2	3.3				4.1
80					3.5	8.4	35.9	46.8	12.8	.1			9.2
75				.9	10.3	21.6	53.3	73.9	36.5	1.7			16.7
70				4.6	28.2	43.0	72.6	92.8	71.7	13.9	.4		27.4
65			.4	13.6	52.2	66.5	89.1	99.4	93.1	42.6	4.7		35.6
60			3.1	29.7	74.6	83.9	97.1	100.0	99.2	75.2	19.1	1.1	48.7
55	.2	.5	6.9	53.0	89.8	95.4	99.6		100.0	92.8	39.9	4.8	57.0
50	1.1	2.7	17.9	74.1	96.5	99.6	100.0			98.5	62.4	14.9	64.0
45	6.3	9.6	34.2	91.7	99.1	100.0				99.9	80.8	29.8	76.9
40	19.1	25.4	62.5	97.7	99.9					100.0	92.1	52.7	79.1
35	50.1	55.3	87.0	99.9	100.0						97.3	77.3	88.9
30	79.6	83.5	97.3	100.0							99.9	94.0	96.2
25	97.7	96.7	99.5								100.0	99.1	99.4
20	99.8	99.6	100.0									99.9	99.9
15	100.0	100.0										100.0	100.0
MEAN	34.7	35.6	42.4	55.2	64.7	67.9	75.5	79.4	72.9	63.3	51.7	40.7	57.0
S D	5.923	6.471	7.556	8.152	8.091	7.923	8.752	6.034	5.874	5.811	8.245	7.925	16.937
TOTAL OBS	837	732	806	772	806	777	806	806	780	806	780	806	9514

NAVWEASERVCOM

DAILY TEMPERATURES

[illegible] MISAWA, JAPAN 46-72, 78-80
STATION STATION NAME YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

JANUARY

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
75							1.1	2.9	.1				.3
70						.1	12.5	23.4	1.4				3.2
65					.1	.6	36.4	64.6	15.2				9.8
60					.7	13.1	69.5	94.3	44.7	1.7			18.8
55				.3	6.2	49.9	93.9	98.9	74.6	12.3	.3		28.3
50				2.5	31.5	84.7	99.1	100.0	93.6	32.6	2.8	.1	37.3
45			.4	12.4	69.1	98.1	100.0		99.5	64.1	11.8	.2	46.4
40	.1	.1	3.2	38.5	92.1	99.7			100.0	87.7	32.3	3.1	54.8
35	2.2	3.8	13.2	73.4	98.9	100.0				98.4	66.2	17.1	64.5
30	12.5	17.5	46.0	95.6	100.0					100.0	90.1	45.4	75.6
25	41.7	40.6	79.4	99.9							98.2	75.9	86.4
20	76.3	72.5	95.5	100.0							100.0	94.5	95.0
15	95.8	95.8	100.0									99.6	99.3
10	99.9	99.2										100.0	99.9
5	100.0	99.6											100.0
0		99.7											100.0
-5		100.0											100.0
MEAN	27.8	23.8	28.9	38.1	46.9	54.2	62.5	66.3	58.5	46.7	37.0	28.8	42.9
S D	5.22	6.034	5.409	5.432	5.112	4.719	5.632	4.402	5.626	5.954	6.083	5.890	15.602
TOTAL OBS	37	732	806	772	806	777	806	806	780	806	780	806	9514

NAVWEASERVCOM

DAILY TEMPERATURES

STATION [illegible] MISAWA, JAPAN STATION NAME 45-72, 78-80 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS) MEAN

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
85							.2	1.4					.1
80							6.8	15.8	.6				1.5
75						.4	25.2	38.5	5.3				5.9
70					1.4	7.9	47.3	74.2	24.3				11.0
65				.1	6.3	29.5	72.5	96.3	59.3	3.2			22.4
60				2.3	26.4	64.0	91.8	100.0	90.8	20.8	.8		33.2
55				11.0	60.5	86.4	99.5		99.6	56.6	7.1		43.5
50	.1		2.9	31.3	87.8	97.9	100.0		100.0	85.9	23.8	1.4	52.7
45	.4	1.1	7.7	63.1	97.4	100.0				97.9	50.9	8.2	60.6
40	3.3	5.3	24.6	88.7	99.8					100.0	76.8	25.7	68.7
35	15.4	19.3	56.8	98.6	100.0						92.6	51.4	77.8
30	46.4	48.4	86.1	100.0							98.6	78.3	88.2
25	81.4	82.5	97.3								100.0	95.3	96.4
20	98.6	97.4	100.0									99.8	99.7
15	99.8	99.6										100.0	99.9
10	100.0	100.0											100.0
MEAN	29.2	29.7	35.8	46.9	56.0	61.3	69.3	73.0	65.9	55.2	44.5	34.9	50.1
S D	5.145	5.731	6.009	6.057	5.705	5.788	6.819	5.054	4.998	5.165	6.758	6.584	16.205
TOTAL OBS	837	732	806	772	806	777	806	806	780	806	780	806	9514

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
FROM DAILY OBSERVATIONS

[illegible] STATION [illegible]ANA, J PAV STATION NAME 48-72, 73-8[illegible] YEARS

WHOLE DEGREES FAHRENHEIT

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]					81	84	92	89	85	74	63	58	
[illegible]	69	71	82	87	92	72	92	93	94	72	59	54	93
[illegible]	[illegible]0	75	85	86	91	81	96	96	95	73	69	51	96
[illegible]1	43	46	67	70	90		90	94	79	79	62	5[illegible]	
[illegible]2	47	41	55	72	78	84	93	87	92	76	68	51	9[illegible]
[illegible]3	4[illegible]	51	67	74	73	92	97	89	92	73	63	62	97
[illegible]4	46	56	6[illegible]	72	80	75	86	94	80	69	65	59	96
[illegible]5	43	46	62	75	69	84	92	93	91	80	63	5[illegible]	93
[illegible]6	48	47	60	76	87	80	94	89	71	76	67	49	94
[illegible]7	55	41	6[illegible]	70	95	81	96	97	91	77	66	56	97
[illegible]8	[illegible]0	56	62	71	83	88	87	91	91	70	66	57	91
[illegible]9	45	48	58	76	77	82	92	92	85	73	67	56	92
[illegible]0	49	54	61	71	75	85	89	97	98	73	61	5[illegible]	97
[illegible]1	42	42	54	79	91	81	98	9[illegible]	90	71	66	61	9[illegible]
[illegible]2	45	50	60	70	92	81	92	95	86	74	73	55	95
[illegible]3	45	43	59	73	82	83	90	98	93	68	68	63	90
[illegible]4	59	59	61	73	79	85	87	91	92	72	67	52	91
[illegible]5	45	47	54	69	90	82	95	89	92	75	62	54	89
[illegible]6	50	50	63	72	80	76	88	9[illegible]	96	78	68	68	90
[illegible]7	49	55	62	71	74	79	87	87	93	72	65	51	87
[illegible]8	45	41	69	73	71	78	91	90	91	77	65	61	91
[illegible]9	47	54	68	77	85	81	98	92	98	70	70	52	92
[illegible]0	49	49	47	67	77	82	92	92	90	75	68	58	92
71	44	46	62	69	86	78	89	93	78	71	66	55	93
[illegible]2	48	48	66										
73	42		60	71	76	82	90	90	78	78	65	63	
74	54	56	56	70	75	81	86	91	85	75	71	62	91
[illegible]0	4[illegible]												
MEAN	47.5	48.5	59.2	71.8	79.2	81.5	90.0	91.5	84.5	73.5	66.0	56.1	92.5
S D	7.28[illegible]	5.402	4.84[illegible]	3.192	6.552	4.063	3.156	2.832	4.032	3.190	3.243	4.854	2.661
TOTAL OBS	837	706	906	750	806	750	806	806	780	806	780	806	9[illegible]

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

44 [illegible] MISAWA, JAPAN 47-72, 78-8[illegible]
STATION STATION NAME YEARS

WHOLE DEGREES FAHRENHEIT
/YEARS OR LESS THAN FULL MONTHS/

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]				72 72									MAX TEMP DAYS
[illegible]1						81 27							MAX TEMP DAYS
7[illegible]		79 7[illegible]											MAX TEMP DAYS
MEAN													
S.D.													
TOTAL OBS													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
FROM DAILY OBSERVATIONS

STATION _____ STATION NAME _____ YEARS _____

WHOLE DEGREES FAHRENHEIT

MONTH / YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]					39	41	54	53	42	36	29	20	
[illegible]	2[illegible]	1[illegible]	2[illegible]	29	38	42	51	56	50	35	30	14	14
[illegible]	10	15	1[illegible]	29	37	47	57	45	40	31	24	17	1[illegible]
71	11	13	17	32	34		47	39	47	32	20	19	
72	14	12	16	29	36	47	56	60	49	34	28	14	12
73	13	15	23	30	42	46	52	53	48	36	26	19	13
74	10	16	21	31	39	37	50	55	54	37	25	20	10
75	13	15	20	23	31	45	61	60	48	35	26	18	13
76	16	14	22	29	41	49	57	54	49	37	27	19	14
77	16	17	17	26	37	48	49	62	47	35	28	24	16
78	18	15	18	27	39	44	60	54	55	34	30	27	15
79	13	20	24	34	42	47	55	59	52	38	24	16	13
80	15	15	20	28	41	44	56	60	45	38	22	19	15
81	14	15	23	30	39	48	59	59	51	33	30	23	14
82	12	19	25	30	36	49	53	63	49	36	26	22	19
83	15	17	19	31	37	44	53	61	47	36	29	22	15
84	2[illegible]	11	22	29	42	44	55	58	44	33	28	20	11
85	17	11	15	27	35	48	52	61	51	34	28	17	11
86	12	14	25	28	35	39	49	57	45	38	26	14	12
87	6	12	20	26	39	52	50	57	49	37	25	19	6
88	19	11	20	30	39	44	45	59	44	37	28	19	11
89	15	15	16	28	43	46	51	60	44	35	23	17	15
90	13	17	15	25	37	46	51	55	48	33	23	18	13
91	15	17	15	26	43	48	57	59	48	37	23	21	15
92	19	10	24										
93	16		16	25	35	45	49	56	48	39	29	22	
94	15	20	24	27	36	45	52	54	50	43	28	25	15
[illegible]	16												
MEAN	14.8	15.2	19.5	28.4	37.0	45.4	53.5	57.9	48.2	35.7	25.8	19.4	13.3
S D	3.530	2.968	3.287	2.413	2.993	3.276	4.091	2.869	3.089	2.507	2.829	3.274	2.800
TOTAL OBS	837	708	806	750	806	750	806	806	780	806	780	806	9439

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

4 STATION | MISAWA, JAPAN STATION NAME | 43-72, 78-93 YEARS

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ALL MONTHS
[illegible]				32 32									MIN TEMP DAYS
[illegible]						49 27							MIN TEMP DAYS
7		4-											MIN TEMP DAYS
MEAN													
S D													
TOTAL OBS													

SMOS

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

HOURS (L.S.T.)

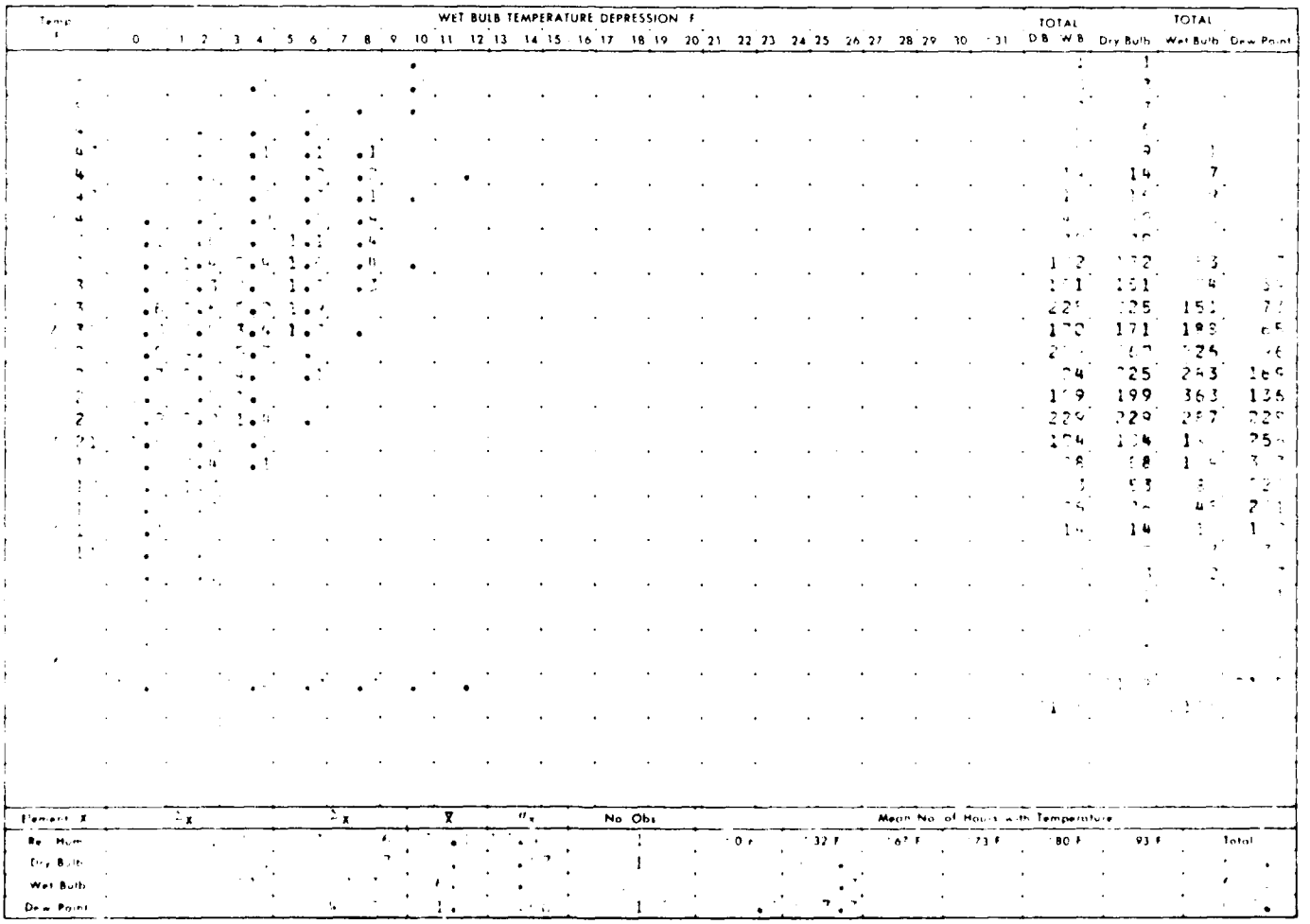
Temp F	WET BULB TEMPERATURE DEPRESSION F (0 – ≥31)	TOTAL D.B. W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]1	27	[illegible]
[illegible]	[illegible]	67	[illegible]8	4[illegible]	[illegible]
[illegible]	[illegible]	[illegible]2	[illegible]2	[illegible]7	
[illegible]	[illegible]	1[illegible]	[illegible]5[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	7[illegible]	1[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]27	2[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]2	[illegible]4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]4[illegible]	4[illegible]1	15[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]4	[illegible]
[illegible]	[illegible]	1[illegible]	14[illegible]	[illegible]27	[illegible]5[illegible]
[illegible]	[illegible]	[illegible]	[illegible]1	156	3[illegible]1
[illegible]	[illegible]	3[illegible]	35	5[illegible]	26[illegible]
1	[illegible]	[illegible]	26	4[illegible]	26[illegible]
1	[illegible]		3	[illegible]	1[illegible]
1	[illegible]		[illegible]		[illegible]
					4
					[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]

Element X	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	[illegible]	17[illegible]99	[illegible]	[illegible]	240[illegible]							
Dry Bulb	[illegible]	7[illegible]	[illegible]9.[illegible]	[illegible]	240[illegible]		[illegible]0.[illegible]					[illegible]44.[illegible]
Wet Bulb	[illegible]3	64555	[illegible]7.1	[illegible]	240[illegible]		[illegible]					744.[illegible]
Dew Point	[illegible]47	51[illegible]3	[illegible]1.[illegible]	[illegible].546	240[illegible]		594.4					744.[illegible]

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

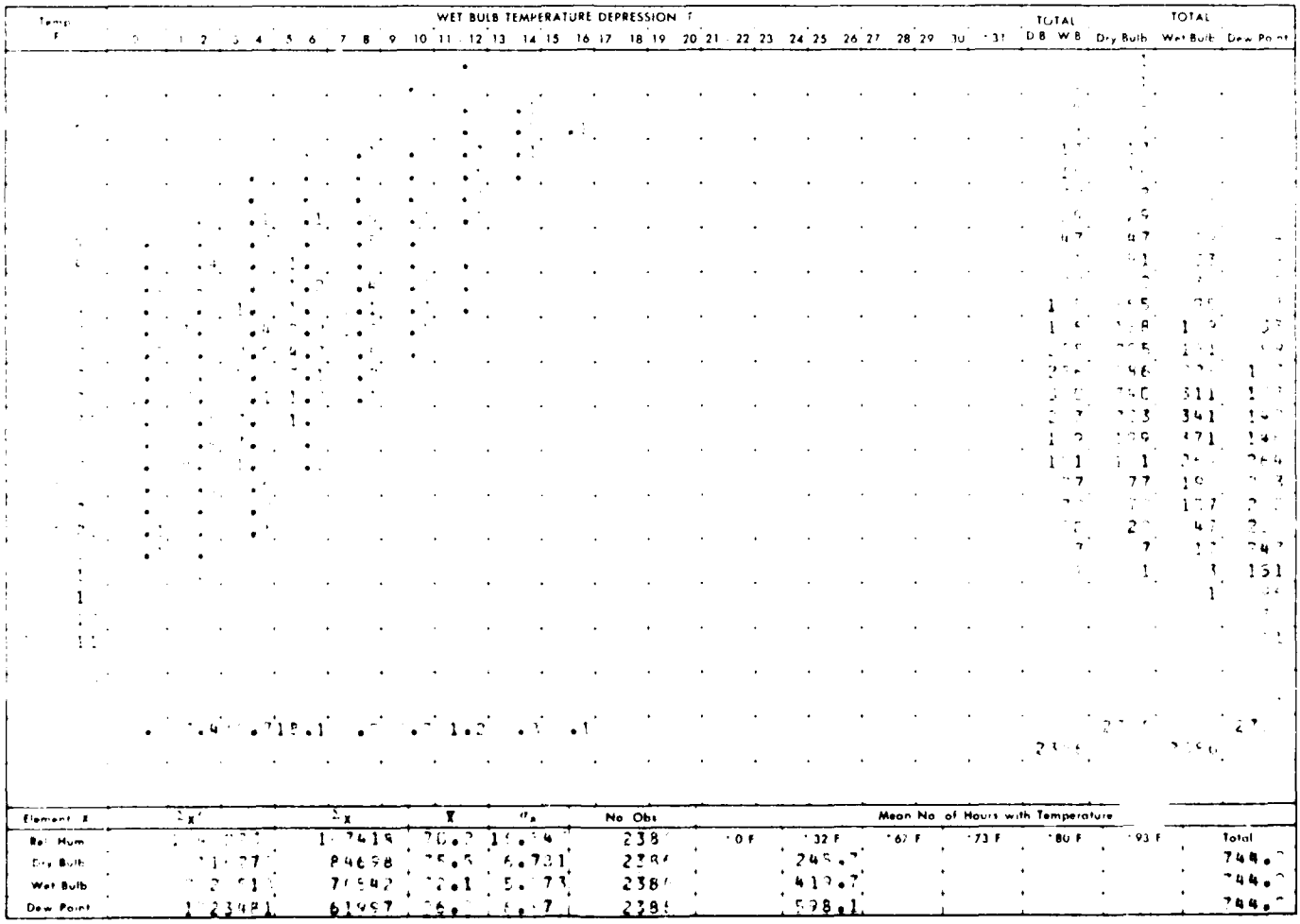


Element X	ΣX	ΣX	$\bar{X}$	σ_x	No Obs	Mean No. of Hours with Temperature					
Re. Hum.						0 F	32 F	67 F	73 F	80 F	93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION STATION NAME YEARS MONTH

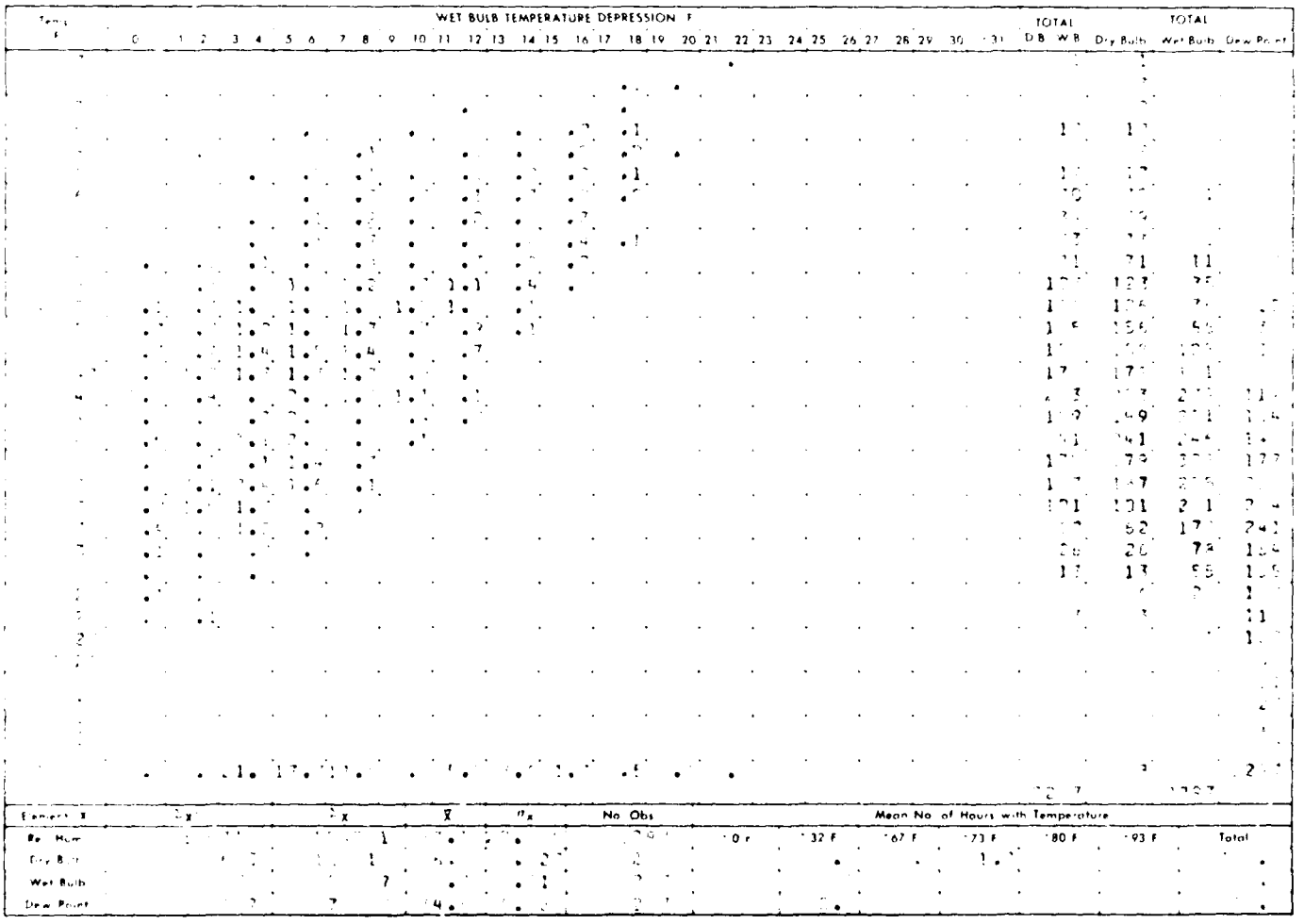


Element X	ΣX^2	ΣX	$\bar{X}$	σ_x	No Obs	Mean No of Hours with Temperature					
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel Hum		1 7419	70.2	15.4	238							
Dry Bulb	1 27	P4698	75.5	6.731	2384		245.7					748.2
Wet Bulb	2 51	71542	72.1	5. 73	2381		413.7					744.2
Dew Point	1 2348 1	61497	66.	6.7	2381		598.1					744.2

NAVWEASERVCOM

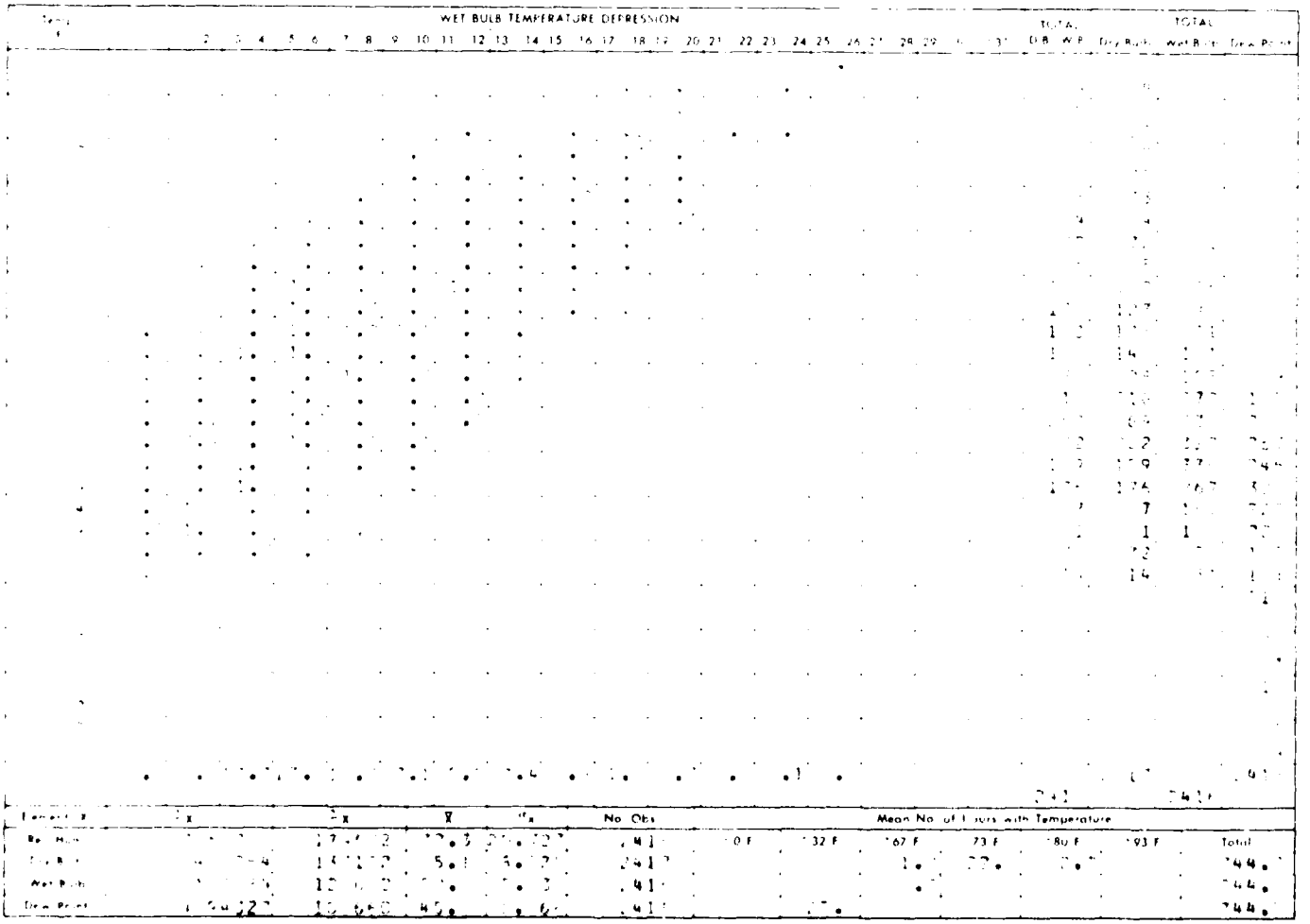
PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH



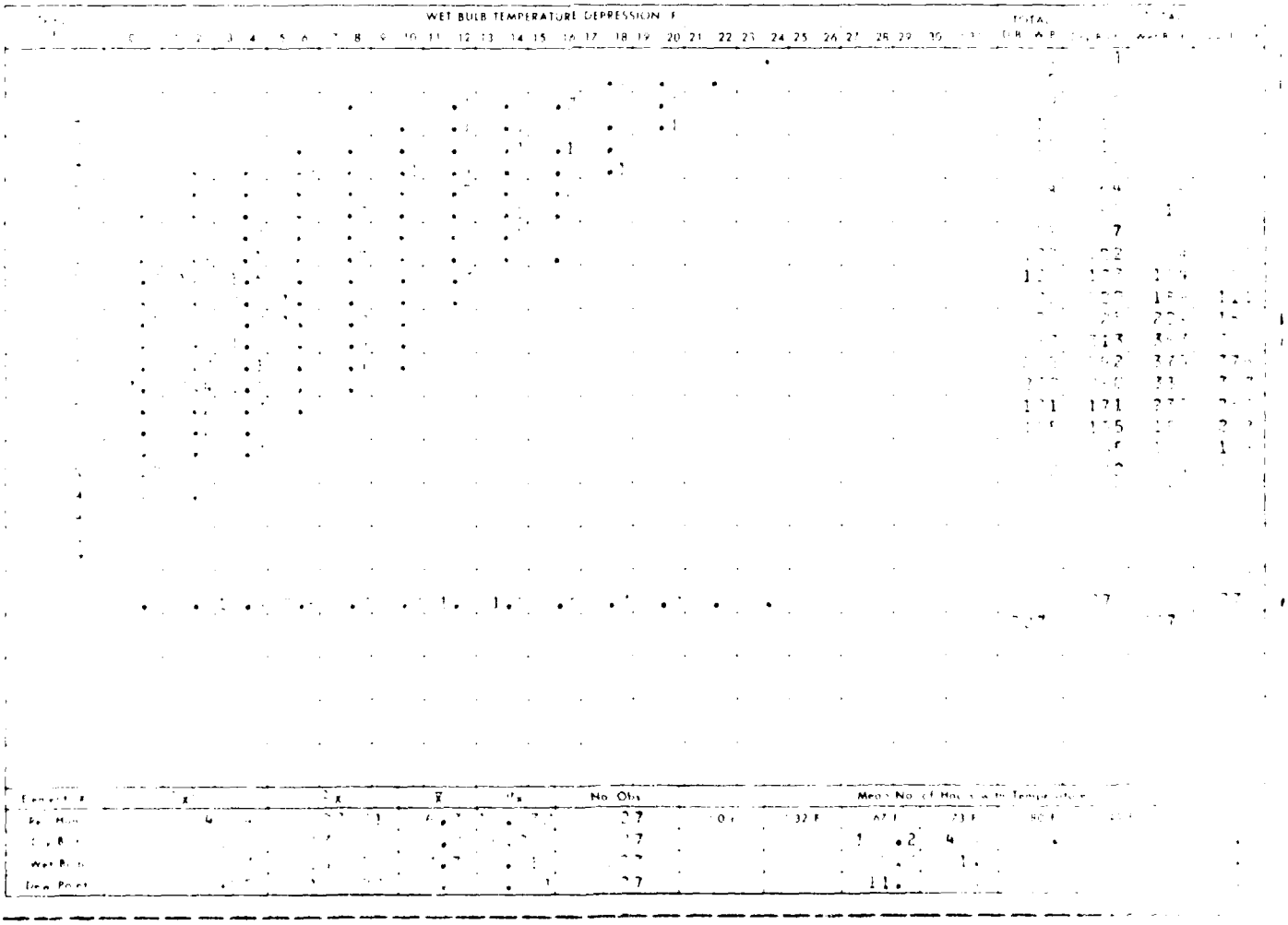
NAVWEASEPVCOM

PSYCHROMETRIC SUMMARY



NAVWEASERVCOM

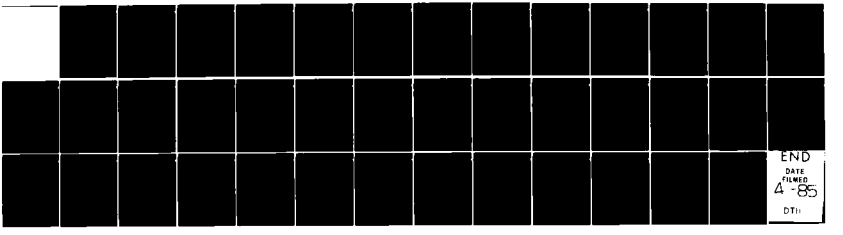
PSYCHROMETRIC SUMMARY

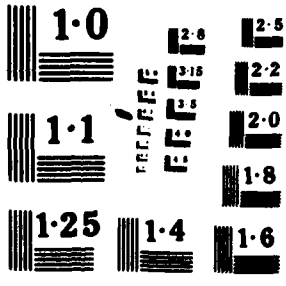


NAVWEASER/COM

AD A151 678 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 4/4
FOR MISAWA JAPAN(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC MAR 85

UNCLASSIFIED F/G 4/2 NL

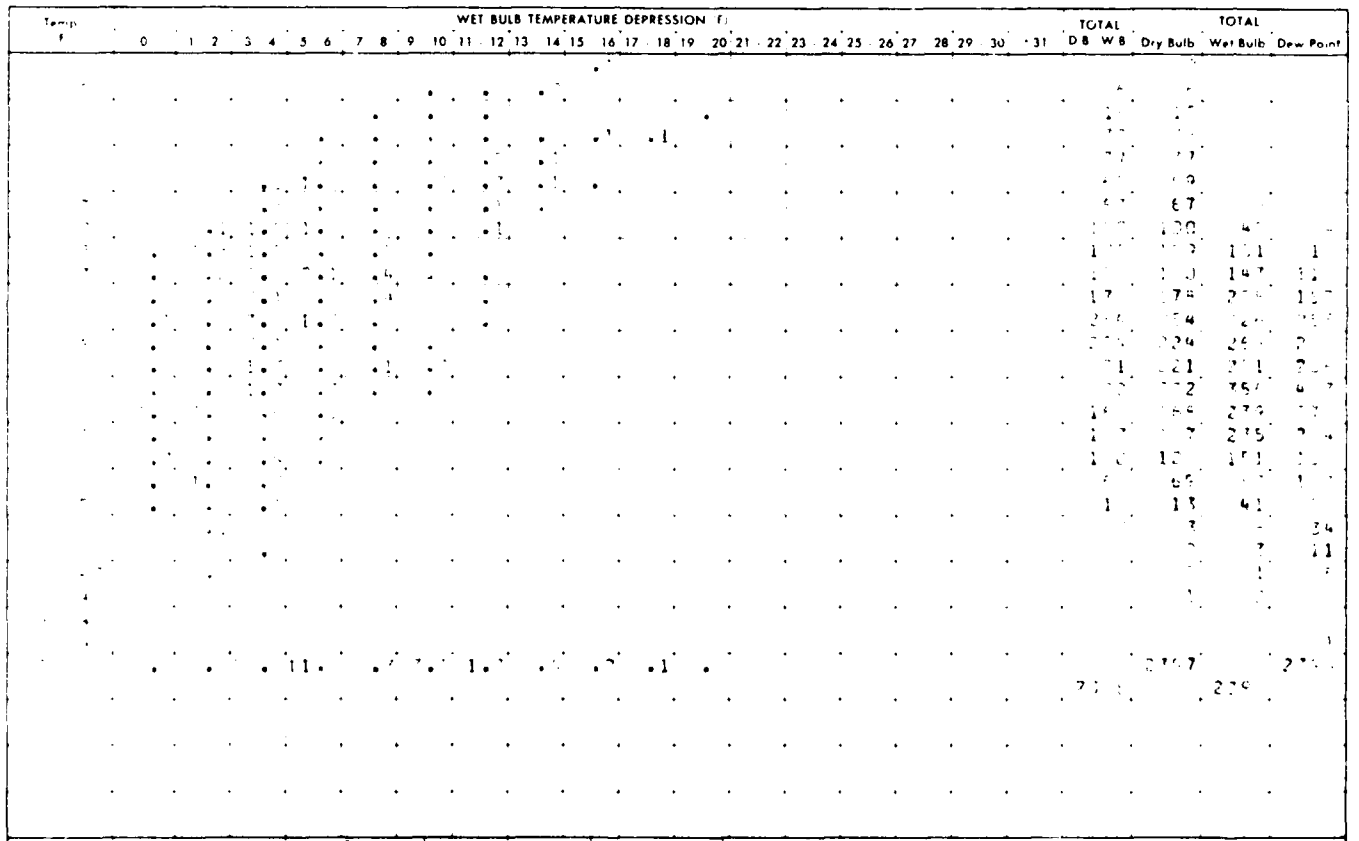



1·0
1·1
1·25
1·4
1·6
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PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

HOURS OF OBSERVATION



Element X	$\Sigma x'$	Σx	$\bar{X}$	σ_x	No Obs	Mean No of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel Hum			7	1	3							
Dry Bulb												
Wet Bulb												
Dew Point												

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PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

PAGE 1

HOURS (L.S.T.)

Temp F	WET BULB TEMPERATURE DEPRESSION F. (0–31)	TOTAL D B W B	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible]	[illegible]	[illegible]	4		
[illegible]	[illegible]	[illegible]	14		
[illegible]	[illegible]	[illegible]	34		
[illegible]	[illegible]	[illegible]	58		
[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	110	110	[illegible]	
[illegible]	[illegible]	[illegible]	100	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	161	74	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	149	[illegible]
[illegible]	[illegible]	[illegible]	222	[illegible]	161
[illegible]	[illegible]	[illegible]	271	335	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	266	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	229	297	[illegible]
[illegible]	[illegible]	[illegible]	211	27	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	34	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]	67
[illegible]	[illegible]		[illegible]	6	[illegible]
[illegible]					[illegible]
[illegible]				[illegible]	4
[illegible]					[illegible]
[illegible]					[illegible]
	1 . [illegible] 14.4 .1 .1 2.7 [illegible]		[illegible]		[illegible]
		[illegible]		[illegible]	

Element X	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
Dry Bulb	[illegible]	177567	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]		[illegible]
Wet Bulb	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	[illegible]		[illegible]
Dew Point	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]	.6		[illegible]

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PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

HOURS

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	TOTAL DB W B	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Element X	Σx^2	Σx	$\bar{X}$	σ_x	No Obs	Mean No of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel Hum	[illegible]	[illegible]	[illegible]	[illegible]	2345			[illegible]	[illegible]	[illegible]		[illegible]
Dry Bulb	[illegible]	[illegible]	[illegible]	[illegible]	2340			[illegible]	[illegible]	[illegible]		[illegible]
Wet Bulb	[illegible]	[illegible]	[illegible]	[illegible]	2340			[illegible]	[illegible]			[illegible]
Dew Point	[illegible]	[illegible]	[illegible]	[illegible]	2340			[illegible]	[illegible]			[illegible]

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH | HOURS (L.S.T.)

WET BULB TEMPERATURE DEPRESSION (F)

Temp F	TOTAL D B W B	Dry Bulb	TOTAL Wet Bulb	Dew Point
[illegible]	[illegible]	1		
[illegible]	[illegible]	[illegible]		
[illegible]	1[illegible]	1[illegible]		
[illegible]	2[illegible]	25		
[illegible]	4[illegible]	49	[illegible]	
[illegible]	5[illegible]	58	7	[illegible]
[illegible]	12[illegible]	125	1[illegible]	4
[illegible]	1[illegible]5	176	4[illegible]	[illegible]
[illegible]	167	[illegible]67	99	[illegible]
[illegible]	22[illegible]	[illegible]27	133	[illegible]
[illegible]	2[illegible]	[illegible]7	201	[illegible]
[illegible]	2[illegible]7	[illegible]7	22[illegible]	19
[illegible]	[illegible]	170	2[illegible]4	15[illegible]
[illegible]	[illegible]	726	[illegible]	[illegible]
[illegible]	1[illegible]4	164	263	211
[illegible]	1[illegible]2	1[illegible]2	24[illegible]	1[illegible]
[illegible]	1[illegible]2	142	1[illegible]	26[illegible]
[illegible]	[illegible]7	87	1[illegible]	2[illegible]
[illegible]	[illegible]2	[illegible]2	14[illegible]	1[illegible]
[illegible]	[illegible]	24	[illegible]	15[illegible]
[illegible]	1[illegible]	14	33	1[illegible]
[illegible]	[illegible]	4	1	[illegible]
[illegible]	[illegible]	6	8	[illegible]
[illegible]			4	46
[illegible]			[illegible]	37
		2[illegible]24		[illegible]42[illegible]
	[illegible]423		2423	

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Element X	Σx^2	Σx	$\bar{X}$	σ_x	No. Obs.	≤0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	[illegible]14[illegible]	17[illegible]2[illegible]	[illegible]3.1	1[illegible]	242[illegible]							
Dry Bulb	[illegible]	13[illegible]332	[illegible]5.4	7.[illegible]36	2424		.[illegible]	4[illegible]	.4			[illegible]4.[illegible]
Wet Bulb	[illegible]93	12[illegible]	[illegible]	[illegible].11	[illegible]42[illegible]		.	2.[illegible]				[illegible]4.
Dew Point	[illegible]5[illegible]2[illegible]	[illegible]3	46.4	7.72[illegible]	242[illegible]		27.3	.[illegible]				[illegible]4.[illegible]

PSYCHROMETRIC SUMMARY

STATION STATION NAME YEARS MONTH

HOURS

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	TOTAL DB WB	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point

NAVWEASERVCOM

Element x	Σx^2	Σx	$\bar{x}$	σ_x	No Obs	Mean No of Hours with Temperature 0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

Temp F	WET BULB TEMPERATURE DEPRESSION °F																													TOTAL		TOTAL	
	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	DB	WB	Dry Bulb	Wet Bulb	Dew Point
																																	1	11			
																																	1	1			
																																		23	4		
																																		42			
																																		58			
																																	102	102	34		14
																																		90	4		34
																																	13	105	91		4
																																	174	174	172		49
																																	3	3	156		1
																																	24	24	276		2
																																	00	00	124		16
																																	21	21	221		12
																																	21	21	34		2
																																	20	20	25		204
																																	13	13	257		34
																																	13	1	13		11
																																		32	64		274
																																	15	15	3		200
																																			1		102
																																			1		7
																																					1
																																		2420				24
																																	2420		240		

Element X	$\Sigma x'$	Σx	$\bar{X}$	σ_x	No Obs	Mean No of Hours with Temperature						
						0 F	32 F	67 F	73 F	80 F	93 F	Total
Rel Hum	1	4	6	17	1.9	1.44	2420						44.
Dry Bulb			1		14.	7.	2420						44.
Wet Bulb				3	9	1.	1	242		1.				4.
Dew Point				6	4	3	.2	.56	242		6				44.

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PSYCHROMETRIC SUMMARY

STATION	STATION NAME	YEARS	MONTH
[illegible]	[illegible]	[illegible]	1

Temp F	WET BULB TEMPERATURE DEPRESSION (F) 0–≥31	TOTAL D B W B	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
[illegible]	[illegible]		[illegible]		
c	[illegible]		[illegible]		
[illegible]	[illegible]	[illegible]1	[illegible]1		
[illegible]	[illegible]	[illegible]	[illegible]8		
[illegible]	[illegible]	[illegible]9	[illegible]9		
[illegible]	[illegible]	[illegible]31	2[illegible]1	7	
[illegible]	[illegible]	1[illegible]5	198	26	[illegible]
[illegible]	[illegible]	[illegible]30	[illegible]30	117	2
7	[illegible]	427	427	2[illegible]4	74
[illegible]	[illegible]	[illegible]4	754	416	287
[illegible]	[illegible]	[illegible]1	[illegible]31	612	4[illegible]7
[illegible]	[illegible]	1[illegible]4[illegible]	1[illegible]47	68[illegible]	76[illegible]
6	[illegible]	1[illegible]2	1[illegible]25	[illegible]49	69
[illegible]	[illegible]	11[illegible]	1139	97[illegible]	7[illegible]6
[illegible]	[illegible]	14[illegible]	1474	1[illegible]	1124
[illegible]	[illegible]	1[illegible]	1[illegible]03	1157	[illegible]
[illegible]	[illegible]	12[illegible]	1[illegible]36	1[illegible]19	1[illegible]
[illegible]	[illegible]	[illegible]94	[illegible]94	1175	9[illegible]
[illegible]	[illegible]	1[illegible]0	1[illegible]	1057	11[illegible]
[illegible]	[illegible]	[illegible]	[illegible]10	10[illegible]	[illegible]3[illegible]
[illegible]	[illegible]	10[illegible]	1[illegible]71	1[illegible]	[illegible]
[illegible]	[illegible]	[illegible]72	[illegible]72	1[illegible]04	[illegible]1
[illegible]	[illegible]	[illegible]	[illegible]	1[illegible]34	[illegible]
[illegible]	[illegible]	112[illegible]	1124	9[illegible]	9[illegible]
[illegible]	[illegible]	[illegible]5	[illegible]65	[illegible]	77
[illegible]	[illegible]	63	64	[illegible]26	7[illegible]
[illegible]	[illegible]	[illegible]	4[illegible]	1[illegible]	76[illegible]
[illegible]	[illegible]	1[illegible]3	1[illegible]3	996	1[illegible]
[illegible]	[illegible]	[illegible]	1[illegible]57	1176	[illegible]
[illegible]	[illegible]	1[illegible]	1[illegible]	1[illegible]37	1[illegible]
[illegible]	[illegible]	[illegible]56	[illegible]7	125[illegible]	9[illegible]
[illegible]	[illegible]	1[illegible]	1[illegible]7	142[illegible]	[illegible]4[illegible]
[illegible]	[illegible]	[illegible]1[illegible]	1121	11[illegible]7	1[illegible]27
[illegible]	[illegible]	[illegible]6	76	12[illegible]	11[illegible]

Element X	Σx^2	Σx	$\bar{X}$	σ_x	No Obs	Mean No. of Hours with Temperature ≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel Hum												
Dry Bulb												
Wet Bulb												
Dew Point												

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

STATION | STATION NAME | YEARS | MONTH

Temp (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 D B	TOTAL W B	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
																																			[illegible]	[illegible]	[illegible]
																																	[illegible]	7	[illegible]	[illegible]	[illegible]
																																		[illegible]	[illegible]	[illegible]	[illegible]
																																		[illegible]	[illegible]	[illegible]	[illegible]
																																		[illegible]	[illegible]	[illegible]	[illegible]
																																		[illegible]	[illegible]	[illegible]	[illegible]
																																		[illegible]	7		1
																																			[illegible]		[illegible]
																																		[illegible]	1		[illegible]
																																		1	1	1	
																																			[illegible]		[illegible]
																																	[illegible]			[illegible]	

Element X	Σx²	Σx	X̄	σ_x	No. Obs	≤0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]							
Dry Bulb	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		567.3	[illegible]	674.[illegible]	17[illegible]		[illegible]
Wet Bulb	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	254.[illegible]	[illegible]		[illegible]
Dew Point	[illegible]	118[illegible]	[illegible]	[illegible]	[illegible]294		[illegible]190.[illegible]	716.6	186.[illegible]	[illegible]		[illegible]

Mean No. of Hours with Temperature (columns ≤0 F through Total)

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MEANS AND STANDARD DEVIATIONS

[illegible] TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

[illegible], JAPAN — 73-80

STATION NAME — YEARS

HRS LST		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	27.[illegible]	27.[illegible]	32.4	41.6	50.3	57.2	64.5	68.7	61.9	51.6	41.1	32.9	46.5
	S D	5.946	6.062	5.663	6.210	6.024	5.338	5.945	5.088	5.550	6.382	7.176	6.5[illegible]7	15.31[illegible]
	TOTAL OBS	[illegible]4.	271.	300.	287.	307.	286.	304.	303.	294.	303.	297.	3[illegible]2.	3558
	MEAN	28.[illegible]	27.2	32.6	42.[illegible]	50.4	57.2	64.9	68.8	61.6	51.3	41.4	33.4	46.8
	S D	5.997	6.351	5.6[illegible]3	6.532	6.365	5.239	5.916	5.141	5.832	6.424	7.338	6.412	15.224
	TOTAL OBS	296.	266.	296.	284.	306.	285.	300.	304.	291.	303.	299.	297.	3527
	MEAN	27.1	29.[illegible]	31.4	41.1	5[illegible].[illegible]	57.3	64.6	67.9	60.3	49.5	40.0	32.3	45.8
	S D	5.972	6.432	5.817	6.428	6.167	5.[illegible]47	5.987	5.219	5.965	6.483	7.372	6.557	15.444
	TOTAL OBS	301	271.	300.	291.	304.	285.	296.	306.	298.	304.	295.	304.	3555
	MEAN	29.9	29.5	37.2	49.7	58.9	62.8	70.9	74.4	67.9	57.7	45.4	35.4	51.7
	S D	5.768	6.201	6.241	7.046	7.744	6.577	7.717	5.966	4.505	5.502	7.507	6.790	16.697
	TOTAL OBS	294.	263.	297.	283.	298.	275.	293.	295.	289.	297.	290.	303.	3477
	MEAN	32.4	32.2	39.6	51.8	61.0	67.9	72.0	75.8	70.0	61.6	48.8	37.9	54.1
1	S D	6.182	6.027	6.864	7.518	8.277	7.516	8.055	6.615	4.705	6.388	8.181	7.506	16.555
	TOTAL OBS	300.	269.	297.	292.	297.	284.	301.	302.	297.	307.	295.	303.	3594
	MEAN	33.2	33.4	40.3	52.1	60.9	66.1	72.2	76.0	70.3	61.8	48.8	38.3	54.4
	S D	6.318	6.216	6.680	7.817	8.419	7.253	7.447	6.694	4.666	6.311	8.371	7.618	16.331
	TOTAL OBS	305.	268.	293.	288.	300.	289.	300.	301.	289.	302.	295.	3[illegible]2.	3532
	MEAN	[illegible].4	29.6	35.9	46.8	55.9	60.5	68.2	72.[illegible]	65.6	55.9	43.9	34.2	49.9
	S D	[illegible].275	6.241	5.815	6.652	7.346	6.469	6.742	5.578	4.346	5.989	7.543	6.791	15.958
	TOTAL OBS	304.	275.	301.	291.	304.	288.	302.	304.	295.	306.	295.	306.	3571
	MEAN	[illegible].1	29.3	34.8	44.7	52.3	59.0	66.7	70.6	64.2	53.9	43.0	34.3	48.7
	S D	6.030	6.260	5.428	6.118	6.091	5.575	6.020	4.969	4.871	6.145	7.254	6.558	15.390
	TOTAL OBS	298.	275.	302.	282.	301.	286.	301.	304.	295.	302.	291.	303.	3540
ALL HOURS	MEAN	29.6	29.2	35.5	46.3	55.1	60.2	68.0	71.8	65.2	55.4	44.0	34.8	49.7
	S D	6.402	6.674	6.781	8.023	8.325	6.798	7.442	6.464	6.245	7.587	8.229	7.157	16.183
	TOTAL OBS	2402	2158	2386	2298	2417	2278	2397	2419	2348	2424	2357	2420	28304

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MEANS AND STANDARD DEVIATIONS

...ET-TULA TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

...A, JAPAN (STATION NAME) 73-82 (YEARS)

...		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP.	OCT	NOV	DEC	ANNUAL
	MEAN	2..5	25.1	30.3	38.5	47.2	55.8	67.2	66.6	59.2	48.6	37.9	31.4	44.1
	S D	5.432	5.243	5.238	5.705	4.997	4.590	5.326	4.592	5.676	6.333	6.847	5.675	15.244
	TOTAL OBS	304	271	300	297	307	286	304	303	294	303	297	312	3558
	MEAN	24.1	25.4	31.3	38.8	47.5	56.0	63.7	66.8	59.2	48.5	38.3	31.0	44.5
	S D	5.516	5.732	5.169	5.971	5.341	4.708	5.313	4.769	5.937	6.377	6.876	5.765	15.198
	TOTAL OBS	296	265	296	284	305	285	300	304	291	303	299	297	3525
	MEAN	22.2	24.1	29.2	38.3	47.5	55.9	63.1	65.8	57.9	46.9	37.2	29.9	43.5
	S D	.400	5.881	5.356	5.733	5.004	4.448	5.377	4.854	6.066	6.320	6.923	5.800	15.314
	TOTAL OBS	301	271	300	291	304	285	296	306	298	304	294	304	3554
	MEAN	23.2	27.1	33.3	43.6	52.2	59.4	67.1	69.7	63.3	52.5	41.2	32.3	47.5
	S D	.136	5.464	5.325	5.862	4.963	4.796	5.754	4.569	4.725	5.556	6.965	5.882	15.687
	TOTAL OBS	214	262	297	283	298	275	293	295	289	297	290	303	3476
	MEAN	25.9	28.8	34.5	44.3	52.9	59.5	67.3	70.0	63.2	53.7	42.6	33.6	48.4
1	S D	5.142	5.795	5.371	5.530	5.078	5.119	5.762	4.775	4.610	5.956	7.012	5.981	15.277
	TOTAL OBS	299	269	297	292	297	284	300	302	297	307	295	303	3542
	MEAN	25.6	29.8	35.2	44.7	53.1	60.0	67.8	70.4	64.2	54.4	42.9	34.1	49.0
	S D	5.402	5.279	5.050	5.631	5.102	4.917	5.576	4.824	4.468	6.009	7.234	6.226	15.213
	TOTAL OBS	304	268	293	238	300	289	300	301	289	302	295	312	3531
	MEAN	26.3	27.2	32.3	41.4	50.3	57.6	65.2	68.1	61.4	51.4	39.9	31.3	46.2
	S D	5.544	5.674	4.994	5.495	4.958	4.842	5.493	4.405	4.880	6.183	7.057	5.887	15.320
	TOTAL OBS	274	274	301	291	304	238	302	304	295	305	295	306	3569
	MEAN	26.3	27.1	31.9	40.7	49.2	57.2	65.0	68.0	61.1	50.5	39.6	31.5	45.9
	S D	5.510	5.664	5.094	5.708	4.798	4.535	5.273	4.391	5.328	6.237	7.021	5.673	15.269
	TOTAL OBS	298	275	302	281	321	286	301	309	295	302	291	303	3539
ALL HOURS	MEAN	27.1	26.9	32.1	41.2	50.0	57.7	65.3	68.2	61.1	50.8	39.9	31.8	46.1
	S D	5.514	5.822	5.573	6.212	5.539	5.017	5.759	4.918	5.631	6.611	7.263	6.215	15.429
	TOTAL OBS	2900	2155	2386	2297	2916	2278	2396	2919	2348	2923	2356	2420	28294

2

MEANS AND STANDARD DEVIATIONS

DE POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

[illegible] A, [illegible] 77-87

[illegible] STATION NAME YEARS

[illegible]		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	[illegible]	28.0	27.2	33.2	43.9	54.7	62.4	65.3	57.2	49.5	[illegible]	[illegible]	[illegible]
	S D	.610	6.631	6.821	7.436	6.396	4.876	5.313	4.868	6.519	7.43[illegible]	[illegible]	6.038	17. [illegible]
	TOTAL OBS	[illegible]	271.	300.	287.	307.	286.	304.	303.	294.	30[illegible]	[illegible]97.	[illegible]2.	3556
	MEAN	1.	20.7	25.[illegible]	34.3	44.4	[illegible]5.1	62.9	65.5	57.4	45.6	3[illegible].0	[illegible]6.5	41.[illegible]
	S D	.558	6.373	6.564	7.551	6.519	5.[illegible]28	5.327	5.070	6.699	7.421	7.	6.616	16.918
	TOTAL OBS	[illegible]6.	265.	276.	284.	[illegible]05.	285.	300.	304.	[illegible]91.	303.	299.	297.	3525
	MEAN	[illegible]3.1	1[illegible].[illegible]	24.5	33.6	44.[illegible]	54.8	62.3	64.5	56.1	44.1	33.0	25.2	40.3
	S D	[illegible].240	6.675	6.679	7.272	[illegible].321	4.787	5.464	5.214	[illegible].777	7.235	7.934	6.551	17.004
	TOTAL OBS	301.	271.	300.	[illegible]91.	304.	295.	296.	[illegible]26.	298.	304.	294.	[illegible]04.	3554
	MEAN	[illegible].1	21.6	26.7	35.8	[illegible]5.9	56.9	[illegible]5.0	67.3	59.6	47.6	35.7	27.[illegible]	42.7
	S D	[illegible].1 5	6.310	6.937	8.401	6.679	5.230	5.624	[illegible].936	6.272	7.202	[illegible].177	6.541	17.326
	TOTAL OBS	[illegible]2.4	[illegible]62.	297.	283.	298.	275.	293.	295.	[illegible]89.	297.	29[illegible].	[illegible]03.	3476
	MEAN	[illegible]1.[illegible]	21.[illegible]	25.[illegible]	34.4	45.3	56.4	[illegible]4.7	66.9	58.6	46.3	34.9	26.4	42.1
	S D	[illegible].171	6.[illegible]2	7.225	8.5[illegible]6	7.18[illegible]	5.559	5.673	5.207	6.879	8.192	8.340	6.558	17.430
	TOTAL OBS	[illegible]09.	269.	297.	292.	297.	[illegible]89.	[illegible]00.	[illegible]02.	[illegible]97.	[illegible]07.	295.	[illegible]03.	3542
	MEAN	22.	22.7	27.2	35.4	46.	57.1	65.[illegible]	67.5	59.7	47.7	35.6	27.2	43.[illegible]
	S D	[illegible].703	6.615	6.742	8.704	6.974	5.[illegible]84	5.599	5.357	6.398	8.261	8.512	6.752	17.372
	TOTAL OBS	[illegible]04	268.	293.	288.	[illegible]00.	289.	[illegible]00.	[illegible]01.	289.	[illegible]02.	295.	[illegible]02.	3531
	MEAN	1.1	21.[illegible]	26.0	34.2	44.7	55.4	63.5	66.0	58.3	47.1	34.[illegible]	25.7	41.6
	S D	.717	7.[illegible]12	6.[illegible]89	8.391	[illegible].775	5.307	5.580	[illegible].843	6.417	7.804	8.21[illegible]	6.629	17.192
	TOTAL OBS	[illegible]4.	274.	[illegible]01.	291.	[illegible]04.	288.	[illegible]02.	[illegible]04.	295.	[illegible]05.	295.	[illegible]06.	3569
	MEAN	1.[illegible]	22.[illegible]	26.7	35.5	[illegible]5.6	55.8	64.[illegible]	66.5	58.[illegible]	[illegible]7.2	[illegible]4.8	26.4	42.2
	S D	6.796	6.778	6.965	8.[illegible]09	6.158	[illegible].850	5.239	[illegible].777	6.411	7.566	8.299	6.321	17.160
	TOTAL OBS	298.	275.	[illegible]02.	291.	[illegible]01.	286.	[illegible]01.	[illegible]04.	295.	[illegible]02.	291.	[illegible]03.	3539
	MEAN	[illegible]1.3	21.3	26.0	[illegible]4.6	[illegible]5.0	55.8	63.8	66.2	58.2	[illegible]6.4	[illegible]4.5	26.2	41.7
ALL HOURS	S D	[illegible].547	6.665	6.870	8.087	6.666	5.202	5.585	5.125	6.645	7.730	8.195	6.563	17.2[illegible]3
	TOTAL OBS	2400.	2155.	2386.	2297.	2416.	2278.	2396.	2419.	2348.	2423.	2356.	[illegible]420.	28294

RELATIVE HUMIDITY

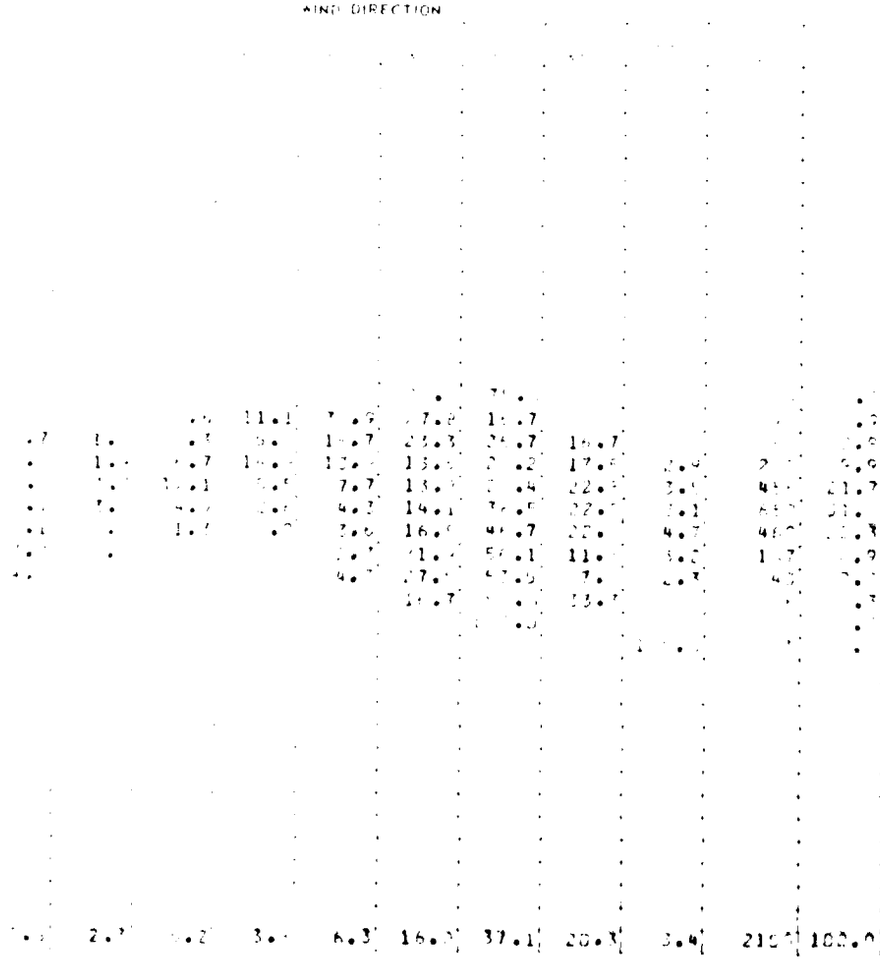
CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOUR	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUMBER OF OBSERVATIONS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	1	100.0	100.0	100.0	100.0	99.6	87.8	70.4	36.2	17.9	75.2	274
	7	100.0	100.0	100.0	100.0	99.6	86.8	64.0	33.6	17.9	75.4	276
	13	100.0	100.0	100.0	100.0	99.3	86.4	63.9	34.2	17.3	75.5	281
	19	100.0	100.0	100.0	100.0	99.3	84.4	57.1	31.0	17.0	73.4	294
	1	100.0	100.0	100.0	98.7	97.5	75.9	31.9	21.4	6.4	66.0	299
	7	100.0	100.0	100.0	98.9	85.9	62.5	35.2	19.1	5.9	66.2	304
	13	100.0	100.0	100.0	100.0	97.7	79.3	50.3	29.0	8.9	72.1	304
	19	100.0	100.0	100.0	100.0	99.0	85.6	62.0	38.5	14.1	73.3	298
YEAR		100.0	100.0	100.0	99.6	95.9	79.0	51.7	29.6	10.7	72.1	2400

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

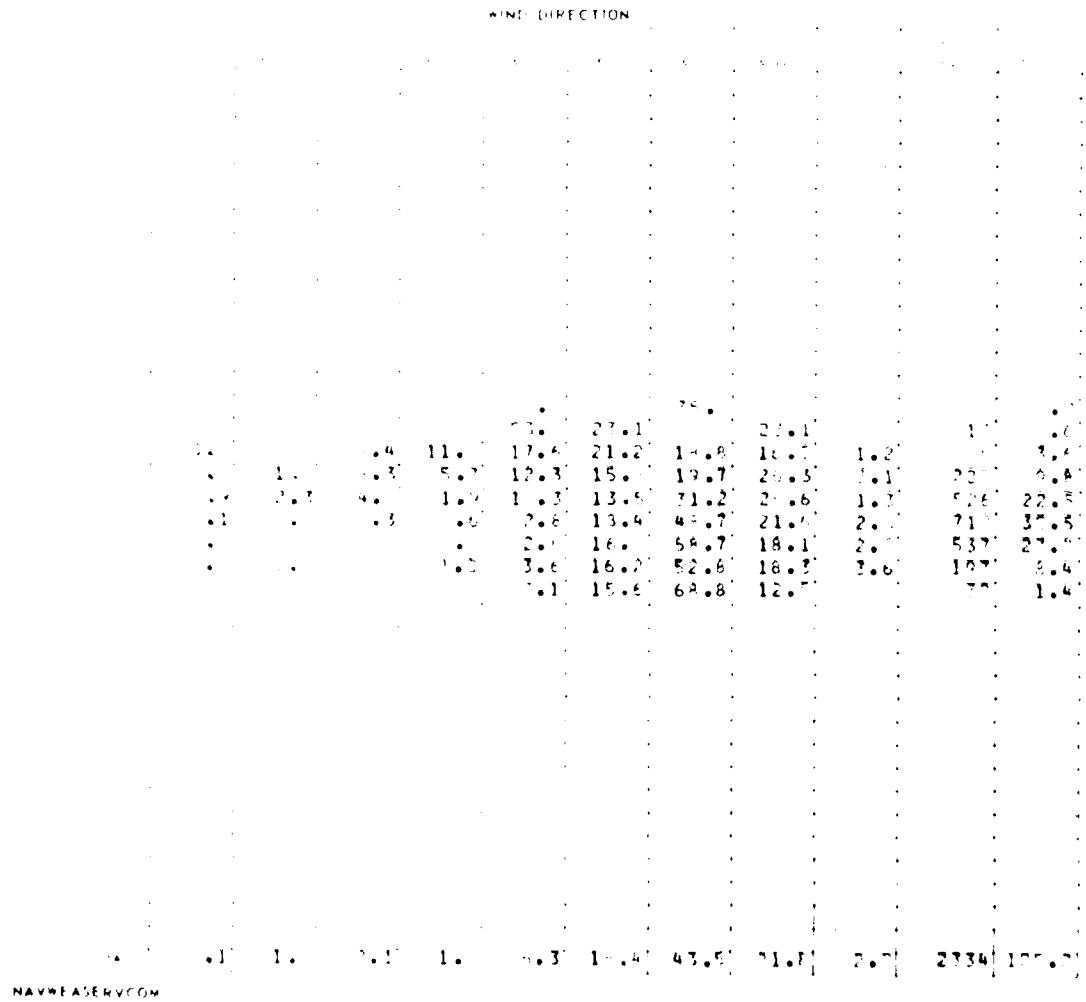
WIND DIRECTION



NAVWEASERVCOM

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION



NAVMETOCSERVCOM

2

RELATIVE HUMIDITY

[illegible] ALL

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%		
[illegible]	ALL	100.0	100.0	100.0	99.6	95.9	79.0	51.7	29.6	10.7	72.1	2400
[illegible]		100.0	100.0	100.0	99.5	96.4	80.6	58.4	34.0	12.0	73.1	2155
[illegible]		100.0	100.0	99.5	95.6	87.3	73.7	46.7	31.6	14.2	71.2	2396
[illegible]		100.0	99.8	96.5	87.4	77.8	62.3	44.7	29.6	15.4	67.1	2297
[illegible]		100.0	99.9	96.9	91.0	82.4	70.4	58.3	39.9	25.0	72.2	2416
[illegible]		100.0	100.0	99.7	98.8	96.5	93.1	85.5	71.9	52.6	86.7	2278
[illegible]		100.0	100.0	100.0	99.9	99.3	96.6	89.2	74.3	46.3	87.1	2396
[illegible]		100.0	100.0	100.0	99.8	98.6	94.1	83.2	64.5	34.1	83.5	2419
[illegible]		100.0	100.0	100.0	99.6	96.6	89.0	74.1	49.9	22.9	79.1	2348
OCT		100.0	100.0	100.0	98.3	91.4	77.9	60.9	35.7	13.2	73.2	2423
NOV		100.0	100.0	100.0	98.6	90.9	73.6	47.8	26.4	9.5	71.3	2356
DEC		100.0	100.0	100.0	99.4	98.8	77.8	51.2	29.5	10.9	71.9	2420
TOTALS		100.0	100.0	99.8	97.3	92.2	80.4	62.3	43.1	22.8	75.5	28294

2

RELATIVE HUMIDITY

[illegible] 73-82 [illegible]

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
[illegible]	[illegible]	[illegible]	[illegible]	100.0	[illegible]9.7	98.7	85.1	59.6	35.8	12.3	74.8	302
	[illegible]	100.0	[illegible]	100.0	100.0	[illegible]7.6	89.6	68.4	38.0	16.8	76.9	297
	[illegible]	100.0	100.0	100.0	[illegible]9.7	99.7	88.2	63.5	39.8	14.5	75.9	304
	[illegible]	100.0	100.0	100.0	100.0	[illegible]7.0	80.9	53.5	26.7	[illegible].2	72.3	303
	1[illegible]	100.0	[illegible]00.0	100.0	[illegible]7.4	84.2	54.8	30.4	18.2	5.3	64.7	303
	1[illegible]	100.0	[illegible]00.0	100.0	[illegible]8.3	[illegible]7.1	60.9	30.8	17.5	[illegible].0	65.4	302
	1[illegible]	100.0	100.0	100.0	[illegible]9.7	96.1	[illegible]0.7	49.3	27.1	9.5	71.9	306
	[illegible]1	100.0	[illegible]00.0	100.0	[illegible]00.0	98.7	82.2	53.9	[illegible]3.0	14.7	73.6	303
TOTALS		[illegible]00.0	100.0	100.0	[illegible]9.4	[illegible]4.8	77.8	51.7	29.5	[illegible]0.9	71.9	240[illegible]

RELATIVE HUMIDITY

[illegible] MISAWA, JAPAN [illegible] NOV

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	[illegible]	100.0	100.0	100.0	100.0	98.7	87.9	60.9	33.0	10.1	74.6	297
	[illegible]	100.0	100.0	100.0	100.0	98.7	90.8	64.2	34.4	14.4	75.8	294
	[illegible]	100.0	100.0	100.0	100.0	99.7	89.5	68.7	41.2	12.9	76.6	294
	[illegible]	100.0	100.0	100.0	100.0	94.9	72.4	44.5	22.4	7.9	69.8	290
	[illegible]	[illegible].7	100.0	100.0	95.3	67.5	40.7	22.0	13.2	7.1	62.3	295
	[illegible]	100.0	100.0	100.0	93.9	77.9	46.4	26.8	12.9	6.1	62.1	295
	[illegible]	100.0	100.0	100.0	99.7	95.9	74.9	42.7	23.7	7.5	70.1	295
	[illegible]	100.0	100.0	100.0	99.7	98.6	86.6	52.6	30.2	9.6	73.4	291
	TOTALS	100.0	100.0	100.0	98.6	90.8	73.6	47.8	26.4	9.5	70.3	2356

2

RELATIVE HUMIDITY

[illegible] MIYAZAKI, JAPAN 77-92 OCT

STAT. NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	[illegible]	100.0	100.0	100.0	100.0	99.0	94.7	82.7	52.5	17.5	80.2	303
	[illegible]	100.0	100.0	100.0	100.0	99.7	94.1	82.5	58.7	22.4	81.1	303
	[illegible]	100.0	100.0	100.0	100.0	98.7	95.4	87.5	60.2	24.7	82.0	304
	[illegible]	100.0	100.0	100.0	100.0	95.3	75.1	48.8	20.9	7.4	70.0	297
	13	100.0	100.0	100.0	92.5	67.1	38.8	21.2	9.8	2.9	58.7	307
	14	100.0	100.0	100.0	94.0	76.5	47.4	28.1	10.9	3.6	61.5	302
	15	100.0	100.0	100.0	99.7	96.4	85.6	60.7	26.9	7.9	73.0	305
	16	100.0	100.0	100.0	100.0	98.7	92.4	76.5	45.7	19.5	78.7	302
TOTALS		100.0	100.0	100.0	98.3	91.4	77.9	60.9	35.7	17.2	73.2	2423

2

[redacted] DETACHMENT
[redacted]

RELATIVE HUMIDITY

[redacted] MIYAKE, JAPAN 73-[redacted] SEP
STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	[redacted]	100.0	100.0	100.0	100.0	100.0	99.0	89.8	69.0	32.7	84.9	294
	[redacted]	100.0	100.0	100.0	100.0	100.0	98.6	91.4	71.1	33.5	86.2	291
	[redacted]	100.0	100.0	100.0	100.0	100.0	98.7	91.6	73.8	35.9	86.8	298
	[redacted]	100.0	100.0	100.0	99.7	97.0	87.2	64.0	33.9	14.2	75.5	299
	[redacted]	100.0	100.0	99.7	98.3	86.2	68.0	44.4	25.3	6.8	66.7	297
	[redacted]	100.0	100.0	100.0	99.0	90.3	71.6	47.8	27.0	12.1	70.4	289
	[redacted]	100.0	100.0	100.0	100.0	99.0	91.9	75.3	40.7	17.3	78.0	295
	[redacted]	100.0	100.0	100.0	100.0	100.0	98.3	88.1	58.6	23.7	82.9	295
TOTALS		100.0	100.0	100.0	99.6	96.6	89.0	74.1	49.9	22.9	79.1	2348

2

RELATIVE HUMIDITY

[illegible] JAPAN | 73-92 | AUG

STATION NAME | PERIOD | MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	[illegible]	100.0	100.0	100.0	100.0	100.0	99.3	96.7	81.2	52.8	89.2	303
	[illegible]	100.0	100.0	100.0	100.0	100.0	99.7	96.1	84.5	53.9	89.6	304
	[illegible]	100.0	100.0	100.0	100.0	100.0	99.3	95.4	84.0	50.0	89.0	306
	[illegible]	100.0	100.0	100.0	100.0	99.0	92.9	74.6	47.8	19.3	79.3	295
	[illegible]	100.0	100.0	100.0	99.3	95.7	84.4	64.9	38.7	12.3	75.1	302
	[illegible]	100.0	100.0	99.7	99.0	95.7	85.4	65.1	43.5	15.6	76.1	301
	[illegible]	100.0	100.0	100.0	100.0	98.7	93.1	80.3	60.5	27.3	82.2	304
	[illegible]	100.0	100.0	100.0	100.0	100.0	99.0	92.4	75.7	41.8	87.4	304
TOTALS		100.0	100.0	100.0	99.8	98.6	94.1	83.2	64.5	34.1	83.5	2419

RELATIVE HUMIDITY

[illegible] JUL

STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	100.0	97.0	92.4	69.7	92.9	304
	[illegible]	100.0	100.0	100.0	100.0	100.0	99.7	98.3	93.7	71.7	93.5	300
	[illegible]	100.0	100.0	100.0	100.0	99.7	99.7	98.0	89.5	65.9	92.5	296
	[illegible]	100.0	100.0	100.0	100.0	99.7	94.2	78.8	59.0	30.4	82.5	293
	[illegible]	100.0	100.0	100.0	99.7	97.7	89.7	74.3	46.0	19.0	78.5	300
	1	100.0	100.0	100.0	99.7	98.3	93.0	81.0	51.7	21.3	81.2	300
	[illegible]	100.0	100.0	100.0	100.0	98.7	97.0	89.4	73.2	34.4	85.6	302
	[illegible]	100.0	100.0	100.0	100.0	100.0	99.7	96.7	88.7	57.8	91.0	301
TOTALS		100.0	100.0	100.0	99.9	99.7	96.6	89.2	74.3	46.3	87.1	2396

1
2

RELATIVE HUMIDITY

[illegible], JAPAN | 73-83 | JUN

STATION NAME | PERIOD | MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	01	100.0	100.0	100.0	100.0	99.0	97.9	94.1	83.6	70.3	92.0	296
	04	100.0	100.0	100.0	100.0	98.9	97.5	95.4	86.4	74.0	93.4	295
	07	100.0	100.0	100.0	99.6	99.3	98.6	95.1	84.2	67.7	91.9	295
	10	100.0	100.0	99.6	99.3	95.3	91.3	78.5	61.1	37.8	82.7	275
	13	100.0	100.0	99.3	96.5	91.5	86.6	73.9	52.1	27.1	78.8	294
	16	100.0	100.0	99.3	96.9	93.8	86.2	74.0	55.7	30.8	79.9	289
	19	100.0	100.0	99.7	98.6	95.5	91.3	81.6	69.4	47.9	84.7	288
	22	100.0	100.0	100.0	99.7	98.6	95.5	91.3	80.8	65.4	90.2	266
	TOTALS	100.0	100.0	99.7	98.8	96.5	93.1	85.5	71.9	52.6	86.7	2278

C
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AIR WEATHER SERVICE DETACHMENT
[illegible], NORTH CAROLINA

RELATIVE HUMIDITY

[illegible] MISAWA, JAPAN 73-92 MAY

STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	[illegible]	100.0	100.0	99.3	98.0	94.5	87.3	76.5	54.7	35.5	80.6	307
	07	100.0	100.0	100.0	98.4	94.9	86.6	76.4	59.3	37.4	81.7	305
	08	100.0	100.0	100.0	97.4	92.8	84.5	72.7	52.0	31.9	79.4	304
	[illegible]	100.0	100.0	95.6	87.6	74.5	55.0	40.3	27.5	18.1	65.5	298
	13	100.0	99.7	90.9	78.9	64.6	48.5	35.7	19.5	11.1	60.4	297
	16	100.0	99.3	94.0	90.3	68.3	51.0	38.0	22.7	13.3	62.0	300
	19	100.0	100.0	95.7	90.1	77.6	66.8	54.9	31.9	19.1	69.4	304
	[illegible]	100.0	100.0	99.7	97.0	92.0	83.4	72.1	51.5	33.6	78.6	301
	TOTALS	100.0	99.9	96.0	91.0	82.4	70.4	58.3	39.9	25.0	72.2	2416

OCEANAV-SMOS

2

RELATIVE HUMIDITY

[illegible] JAPAN 73-82 APR

STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	[illegible]	100.0	100.0	100.0	98.6	92.7	78.4	56.8	39.7	22.3	74.8	287
	[illegible]	100.0	100.0	99.6	98.2	95.1	81.7	60.2	41.2	22.9	75.7	284
	[illegible]	100.0	100.0	99.7	97.9	93.8	81.1	59.1	44.0	25.1	76.0	291
	[illegible]	100.0	100.0	97.5	83.7	68.9	45.9	32.9	20.1	12.4	61.6	283
	13	100.0	99.0	88.7	72.3	56.5	36.6	23.6	13.7	9.2	55.1	292
	16	100.0	99.7	88.9	69.1	58.0	44.4	29.5	15.3	8.7	56.8	288
	19	100.0	100.0	97.9	84.5	71.5	57.7	40.2	25.4	12.4	64.7	291
	22	100.0	100.0	100.0	95.0	86.1	72.6	52.0	37.7	18.1	72.2	281
	TOTALS	100.0	99.9	96.5	87.4	77.8	62.3	44.3	29.6	16.4	67.1	2297

OCEANAV-SMOS

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AWS WEATHER SERVICE DETACHMENT
APO SAN FRANCISCO 96328

RELATIVE HUMIDITY

44425 MISAWA, JAPAN 73-82 MAR

STATION NUMBER STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	00	100.0	100.0	100.0	99.7	96.7	83.3	58.7	41.7	22.0	75.9	300
	03	100.0	100.0	100.0	100.0	98.3	88.2	62.8	46.3	20.9	76.8	296
	06	100.0	100.0	100.0	99.7	98.0	87.0	62.7	42.7	19.0	76.5	300
	09	100.0	100.0	99.3	95.6	86.5	64.3	41.8	23.9	9.1	67.6	297
	12	100.0	100.0	98.0	87.5	67.3	44.8	25.9	16.8	7.4	60.3	297
	15	100.0	100.0	98.6	86.7	70.3	51.9	27.3	17.4	8.9	62.0	293
	18	100.0	100.0	100.0	96.3	87.4	68.1	41.5	26.2	12.0	68.8	301
	21	100.0	100.0	100.0	99.0	93.7	77.8	53.0	37.4	14.6	73.4	302
TOTALS		100.0	100.0	99.5	95.6	87.3	70.7	46.7	31.6	14.2	70.2	2386

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[redacted] WEATHER SERVICE DETACHMENT
[redacted] MISAWA AB, JAPAN

RELATIVE HUMIDITY

[redacted] MISAWA, JAPAN 73-77 FEB
STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO OF OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	01	100.0	100.0	100.0	100.0	99.3	85.6	51.7	42.1	15.9	75.9	271
	07	100.0	100.0	100.0	100.0	99.6	89.8	67.9	43.8	15.5	76.9	265
	13	100.0	100.0	100.0	100.0	99.6	93.4	67.9	43.9	19.8	77.5	271
	19	100.0	100.0	100.0	100.0	98.1	84.0	54.2	30.9	11.1	73.1	262
	01	100.0	100.0	100.0	98.9	85.9	63.6	38.7	20.1	6.7	66.9	269
	07	100.0	100.0	99.6	97.8	86.6	62.3	31.7	17.2	7.8	66.1	268
	13	100.0	100.0	100.0	99.6	95.6	80.7	55.5	35.8	14.6	73.6	274
	19	100.0	100.0	100.0	99.6	98.2	85.1	58.2	38.2	17.8	75.3	275
TOTALS		100.0	100.0	100.0	99.5	95.4	80.6	54.8	34.0	13.0	73.1	2155

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

[illegible] JAPAN JANUARY 1973-DECEMBER 1982 MARCH

WIND DIRECTION

						50.0		50.0		5	.1
	14.3		14.3			14.3	57.1			7	.3
	5.7	2.2		4.4	11.1	24.4	40.0	11.1		45	1.9
	4.4		2.2	11.0	13.2	23.1	28.6	17.6		61	3.9
	4.6	2.3	3.5	16.6	9.3	13.1	28.2	21.2	1.2	259	11.2
	5.0	2.6	7.0	18.5	9.1	10.2	20.6	24.0	1.9	529	22.9
	4.5	3.2	7.4	11.0	7.6	9.0	31.7	19.3	4.3	725	31.4
	4.2	1.5	3.6	1.5	5.2	20.8	45.3	14.9	3.1	477	20.7
	1.7		1.3		3.9	22.2	54.9	10.5	5.2	153	6.6
						55.0	40.0	5.0		20	.9
TOTALS	4.2	2.2	5.3	10.4	7.6	14.3	33.3	18.7	2.9	2308	100.0

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2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

[illegible] JANUARY 1973–DECEMBER 1982 APRIL

WIND DIRECTION

					[illegible]		[illegible]	[illegible]		[illegible]	.2
	4.				14.3	19.	57.1	4.8		21	[illegible]
	7.8	[illegible]	[illegible]	4.7	12.5	28.1	35.9	6.3		64	[illegible]
	[illegible]	[illegible]	[illegible]	7.5	9.3	[illegible]	32.9	14.3		161	7.3
	[illegible]	[illegible]	[illegible]	19.3	7.3	9.7	28.3	[illegible]	[illegible]	[illegible]	13.7
	[illegible]	[illegible]	11.3	20.3	[illegible]	12.3	[illegible]	15.3	1.3	[illegible]	18.7
	[illegible]	3.4	10.4	23.2	5.9	11.4	[illegible]	[illegible]	3.4	595	27.1
	[illegible]	3.3	[illegible]	18.1	7.6	12.1	[illegible]	16.3	5.6	448	[illegible]
	.3	[illegible]	[illegible]	[illegible]	7.7	[illegible]	[illegible]	7.7	[illegible]	[illegible]	7.7
	3.7			3.7	7.4	22.2	[illegible]	18.5	3.7	27	1.2
					3.3		66.7			[illegible]	.1
TOTALS	5.7	3.0	9.4	18.0	7.7	13.3	25.7	14.6	2.7	2193	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

JANUARY 1973-DECEMBER 1982 MAY

WIND DIRECTION

										TOTAL FREQ	% TOTAL
							100.0			4	.2
	6.7	13.3	26.7	6.7	6.7	13.3	26.7			15	.7
	9.9		9.9	11.3	5.6	26.8	22.5	14.1		71	3.1
	7.5	1.2	10.6	11.2	8.1	22.4	23.0	16.1		161	7.1
	[illegible]	2.7	13.2	12.9	9.7	18.3	19.8	[illegible]	.8	257	11.3
	6.9	4.4	11.5	19.8	8.2	15.1	16.2	15.1	2.7	364	16.0
	7.6	5.3	15.4	19.3	7.0	10.1	13.5	16.0	5.6	513	22.5
	[illegible]	5.9	11.4	18.6	5.8	9.6	20.8	10.6	9.4	554	24.3
	[illegible]	3.9	19.6	22.4	3.2	11.7	16.0	10.7	6.4	281	12.3
	1.7	6.9	20.7	17.2	3.4	13.9	27.7	6.9	8.6	59	2.5
TOTALS	7.4	4.4	13.7	17.9	6.7	13.6	18.1	13.3	5.1	2279	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

JAN A Y 1973-DICEM F 1982 JUNE

WIND DIRECTION

							100.0				.0
	10.			12.		12.5	62.5			8	.4
	.3		.0			33.3	36.7	6.7			1.4
	4.	.8	19.2	19.2	5.6	17.6	28.0	4.	.8	125	5.8
	.0	2.	18.0	19.3	7.0	13.5	16.	9.5	4.5	2 0	9.3
	4.	4.	25.4	32.9	7.4	6.2	6.7	7.4	4.6	417	19.3
	.2	6.5	25.5	36.5	4.3	2.4	5.5	6.2	7.9	694	32.2
	.5	8.4	24.8	33.6	5.1	2.9	5.1	6.1	8.4	5 9	23.6
	1.2	6.7	23.0	39.4	3.0	4.8	1 .3	7.3	4.2	165	7.6
	12.			25.		25.	12.5		25.	8	.4
TOTALS	5.	5.7	23.9	32.0	5.2	5.9	9.0	6.6	6.3	2157	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

JA[illegible] JANUARY 1973-DECEMBER 1982 JULY

WIND DIRECTION

							100.0			1	.0
		.1	4.5	15.2		18.2	36.4	13.6		22	1.0
	.5	3.8	21.7	10.4	3.8	16.[illegible]	26.4	9.4		106	4.7
	.3	5.6	19.0	17.9	10.1	19.[illegible]	15.6	2.8	2.8	179	8.[illegible]
	.5	6.4	24.1	20.3	12.5	15.4	8.4	2.9	4.6	345	15.4
	.1	4.7	28.3	26.[illegible]	8.0	4.9	7.8	3.2	11.[illegible]	529	23.5
	.4	5.6	29.0	35.1	5.1	3.2	6.7	2.5	8.4	593	26.4
	2.1	8.1	24.3	39.4	5.2	3.1	5.2	2.9	9.7	383	17.1
	2.4	2.4	28.9	27.7	12.0	4.8	7.2	2.4	12.[illegible]	83	3.7
						50.0	33.3		16.7	6	.3
TOTALS	4.[illegible]	5.7	2 .8	28.6	7.4	7.7	9.0	3.3	7.9	2245	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

[illegible], JAPAN — JANUARY 1973-DECEMBER 1982 — AUGUST

WIND DIRECTION

[illegible]							100.0			[illegible]	.7
[illegible]		[illegible]	10.2	10.2	6.2	14.3	32.7	22.4		49	[illegible].1
[illegible]	5.6	3.6	9.0	12.7	6.6	18.1	27.1	13.3		166	7.2
[illegible]	[illegible].7	4.9	14.8	19.0	8.5	16.9	18.7	8.8	1.8	284	12.4
[illegible]	4.2	4.1	19.1	28.7	9.3	10.3	10.9	8.[illegible]	5.4	613	26.7
[illegible]	3.7	4.4	20.1	31.7	9.4	7.0	9.4	5.5	8.8	657	28.6
[illegible]	1.[illegible]	4.6	20.8	34.7	8.2	10.2	11.5	2.2	6.2	453	19.7
[illegible]	1.5	1.5	6.2	18.5	4.6	24.6	32.3	6.2	4.6	65	2.8
[illegible]						14.3	85.7			7	.3
TOTALS	4.1	4.2	17.8	27.6	8.6	11.2	14.1	6.8	5.5	2295	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

[illegible] A, JAPAN — JANUARY 1973–DECEMBER 1982 — SEPTEMBER

WIND DIRECTION

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	SSW & SW	[illegible]	WNW & NW	[illegible]	TOTAL FREQ	TOTAL
[illegible]							[illegible]			[illegible]	[illegible]
[illegible]			[illegible]	6.7	26.7	[illegible]	33.3			[illegible]	.7
[illegible]	[illegible]	4.8	6.3	17.5	15.9	14.3	19.0	17.5		63	[illegible]
[illegible]	[illegible]	3.3	13.8	16.7	13.0	13.8	11.0	15.4	.8	246	11.1
[illegible]	5.7	4.9	15.7	28.3	[illegible]	9.4	11.6	10.8	3.2	594	26.7
[illegible]	[illegible]	2.7	12.7	24.8	13.8	[illegible]	15.9	10.6	4.4	753	33.8
[illegible]	[illegible]	.9	4.4	7.6	14.0	28.9	32.4	3.2	3.2	343	15.4
[illegible]		[illegible]	1.2		1.8	45.2	41.1	4.8	5.4	168	7.6
[illegible]					10.5	31.6	47.4	5.3	5.3	38	1.7
[illegible]							100.0			4	.2
TOTALS	[illegible]	2.9	11.1	19.5	12.0	17.0	19.6	10.4	3.4	2225	100.0

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

[illegible] AN JANUARY 1973-DECEMBER 1982 OCTOBER

WIND DIRECTION

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ	% TOTAL
[illegible]	1[illegible].3		1[illegible].3	3.4	10.3	24.1	20.7	17.2	3.4	29	1.3
[illegible]	1[illegible].3	2.7	7.1	22.1	11.5	9.7	15.9	17.7		113	4.9
[illegible]	[illegible].5	3.2	7.4	20.5	16.3	13.4	17.1	14.5	2.1	381	16.5
[illegible]	5.7	3.3	4.5	12.6	14.3	20.0	19.8	16.9	3.1	491	21.4
[illegible]	4.4	1.6	2.9	5.7	12.0	24.5	27.9	17.5	3.5	549	23.8
[illegible]	4.3	1.2	.7	1.2	7.4	30.5	41.7	11.0	2.1	420	18.3
[illegible]	2.7	.4	.8	.4	6.2	38.5	41.6	8.6	.8	257	11.2
[illegible]					8.0	34.0	48.0	6.0	4.0	50	2.2
[illegible]						22.2	55.6		22.2	9	.4
[illegible]							100.0			1	.0
TOTALS	5.0	2.0	3.6	8.8	11.5	23.8	28.3	14.4	2.5	2298	100.0

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

JANUARY 1973-DECEMBER 1932 NOVEMBER

WIND DIRECTION

			1.3		26.6	28.6	28.6				
			5.3	5.3	16.7	13.9	41.7	8.3		36	1.6
	.1	2.1	1.7	11.3	17.5	29.9	19.6	14.4	1.5	99	4.3
	.7	1.8	4.1	16.6	15.9	11.2	14.8	22.5	2.9	277	12.2
	10.5	4.0	4.5	5.8	14.4	19.4	19.6	19.6	2.0	397	17.5
	4.3	1.1	1.4	3.4	11.2	21.9	31.3	22.7	3.4	565	24.8
	5.1	.7		.6	8.8	28.8	46.6	16.2	1.9	475	20.9
	1.5	.4	.4		3.6	21.5	49.3	22.3	1.1	274	12.5
	.7				2.2	7.5	67.9	20.9	.7	134	5.9
				7.7		7.7	53.8	23.1	7.7	13	.6
TOTALS	4.3	1.7	2.2	4.7	10.7	20.5	33.2	19.9	2.2	2275	100.0

NAVWEASERVCOM

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

[illegible]A, [illegible]AN — JANUA?Y 1973-DECEMBER 1982 (YEAR) — DECEMBER (MONTH)

WIND DIRECTION

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] & SW	[illegible] & W	WNW & NW	CALM	TOTAL FREQ.	[illegible] TOTAL
[illegible]							50.0	50.0		2	.1
[illegible]						50.0	25.0	25.0		4	.2
[illegible]	5.4	2.7	2.7	2.7	18.9	27.0	24.3	13.5	2.7	37	1.6
[illegible]	[illegible]	[illegible]	.9	4.7	28.3	18.9	11.3	21.7	1.9	[illegible]	4.5
[illegible]	1.2	[illegible]	.4	1.6	16.3	26.5	26.5	24.1	2.4	245	[illegible]
[illegible]	.1	.8	1.8	1.3	9.2	24.3	37.6	16.8	2.7	511	21.9
[illegible]	[illegible]	.5	1.4	.8	7.2	16.2	44.7	21.4	2.3	622	26.7
[illegible]	2.4	.2	.2	.6	3.9	16.0	51.7	22.6	2.6	544	23.3
[illegible]	.9				1.7	13.5	60.0	23.0	.9	230	9.9
[illegible]	3.6				3.6	14.3	71.4	7.1		28	1.2
[illegible]						100.0				1	.0
TOTALS	3.9	.6	.9	1.2	8.4	19.1	42.8	20.9	2.3	2330	100.0

NAVWEASERVCOM

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS
WIND DIRECTION

[illegible] JANUARY 19[illegible] - DECEMBER 19[illegible]

WIND DIRECTION

							[illegible]				.[illegible]
		[illegible]	.2	12.3	[illegible]	15.1	35.6	1[illegible].2		[illegible]	.[illegible]
	.[illegible]	7.3	1[illegible].4	11.[illegible]	[illegible].4	17.1	29.1	1[illegible].7		[illegible]	[illegible].1
	.[illegible]	5.1	1[illegible]	17.2	9.3	13.	13.9	7.[illegible]	1.[illegible]	[illegible]	[illegible].1
	.7	3.[illegible]	1[illegible].7	22.3	10.3	13.[illegible]	12.[illegible]	8.2	[illegible].7	1434	[illegible]
	[illegible]	4.1	1[illegible].2	26.3	9.7	9.1	12.[illegible]	[illegible]	[illegible].3	22[illegible]	[illegible].4
	[illegible].3	3.[illegible]	1[illegible].1	27.3	10.2	1[illegible].2	13.4	[illegible]	4.7	2757	1[illegible].9
	[illegible].4	4.5	14.1	23.[illegible]	[illegible].9	13.[illegible]	1[illegible].2	1[illegible]	[illegible].1	26[illegible]	9.6
	.[illegible]	2.[illegible]	11.7	17.3	[illegible].8	14.[illegible]	1[illegible].6	13.7	4.9	2425	9.[illegible]
	[illegible].7	3.[illegible]	7.7	13.3	[illegible].9	17.2	24.[illegible]	13.[illegible]	7.9	22[illegible]	9.2
	[illegible]	2.[illegible]	[illegible].7	12.0	[illegible].0	19.3	27.1	17.[illegible]	[illegible].	235[illegible]	8.7
	.1	1.[illegible]	[illegible].1	[illegible]	9.3	16.3	26.7	15.6	3.1	25[illegible]	9.7
	.[illegible]	2.[illegible]	[illegible]	[illegible]	7.6	14.2	35.2	21.3	2.	27[illegible]1	1[illegible].3
	[illegible].4	1.[illegible]	2.[illegible]	1.3	3.[illegible]	16.7	47.[illegible]	20.7	2.6	2547	9.4
	2.[illegible]	.[illegible]	.[illegible]	.[illegible]	3.0	16.4	54.4	19.4	3.1	14[illegible]	5.5
	[illegible].2	.		.[illegible]	3.0	2[illegible].4	54.[illegible]	14.1	[illegible].	432	1.6
	2.				[illegible]	23.7	59.2	9.2	1.3	76	.3
						16.7	[illegible].0	33.3		2	.[illegible]
							100.0			3	.[illegible]
									100.0	3	.[illegible]
TOTALS	.1	2.9	1[illegible].0	14.4	[illegible].2	15.[illegible]	26.3	1[illegible].3	3.5	27043	100.0

NAVWEASERVCOM

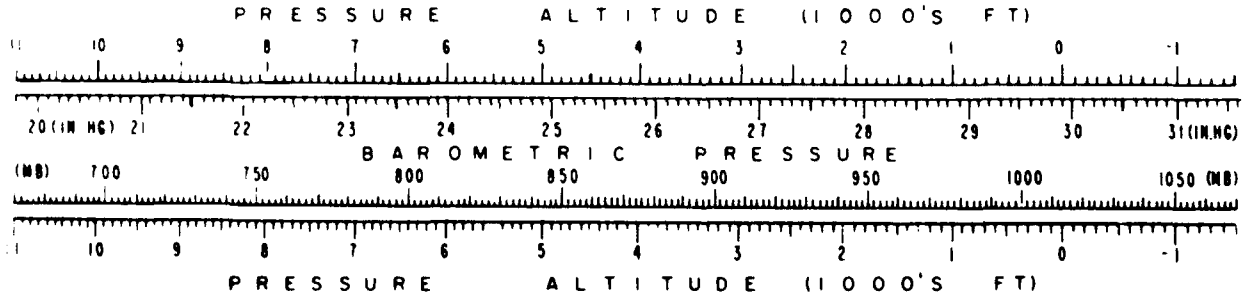
PART F PRESSURE SUMMARY

Presented in this part are two tables giving 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 standard synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1964 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.

2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



F

2

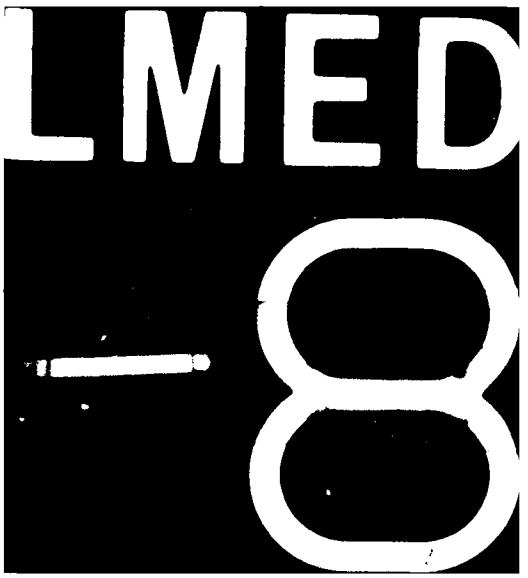
MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

[illegible] JAPAN 77-87

[illegible] STATION NAME YEARS

HRS		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	MEAN	.766 29.	.8[illegible] 29.	.819 29.	.798 29.	.737 29.	.683 29.	.694 29.	.682 29.	.799 29.	.846 29.	.891 29.	.829	29.777
	S D	.216	.202	.234	.220	.195	.156	.117	.146	.156	.240	.253	.223	.213
	TOTAL OBS	302.	272.	299.	288.	307.	286.	305.	303.	295.	303.	297.	302.	3562
	MEAN	.763 29.	.81[illegible] 29.	.80[illegible] 29.	.784 29.	.723 29.	.679 29.	.68[illegible] 29.	.673 29.	.782 29.	.838 29.	.880 29.	.833	29.770
	S D	.222	.203	.235	.222	.197	.163	.117	.149	.162	.240	.254	.221	.213
	TOTAL OBS	296.	267.	296.	284.	306.	285.	300.	304.	291.	303.	299.	297.	3528
	MEAN	.761 29.	.795 29.	.821 29.	.786 29.	.735 29.	.695 29.	.696 29.	.687 29.	.79 29.	.844 29.	.893 29.	.833	29.778
	S D	.201	.204	.242	.229	.201	.162	.122	.153	.168	.236	.256	.219	.214
	TOTAL OBS	301	275.	300.	292.	304.	285.	299.	306.	297.	304.	294.	304.	3561
	MEAN	.793 29.	.823 29.	.828 29.	.793 29.	.739 29.	.695 29.	.697 29.	.697 29.	.80[illegible] 29.	.873 29.	.896 29.	.854	29.791
	S D	.224	.206	.249	.237	.202	.157	.122	.151	.171	.241	.264	.223	.219
	TOTAL OBS	2[illegible]3.	266.	300.	294.	298.	275.	293.	294.	289.	297.	289.	302.	3485
	MEAN	.751 29.	.787 29.	.809 29.	.761 29.	.721 29.	.686 29.	.688 29.	.674 29.	.784 29.	.834 29.	.861 29.	.827	29.766
	S D	.219	.201	.232	.229	.203	.159	.121	.150	.166	.231	.260	.219	.212
	TOTAL OBS	300.	270.	297.	292.	297.	284.	300.	302.	297.	307.	295.	303.	3544
	MEAN	.749 29.	.768 29.	.783 29.	.744 29.	.7[illegible]0 29.	.675 29.	.673 29.	.659 29.	.754 29.	.830 29.	.858 29.	.817	29.751
	S D	.214	.198	.225	.225	.191	.158	.117	.153	.157	.227	.256	.216	.208
	TOTAL OBS	305.	270.	294.	288.	310.	289.	300.	301.	290.	302.	295.	302.	3536
	MEAN	.768 29.	.790 29.	.803 29.	.764 29.	.712 29.	.675 29.	.679 29.	.671 29.	.77[illegible] 29.	.834 29.	.858 29.	.825	29.762
	S D	.219	.200	.225	.222	.194	.154	.115	.149	.152	.235	.261	.218	.2[illegible]9
	TOTAL OBS	302.	274.	300.	291.	309.	288.	302.	304.	295.	306.	295.	306.	3567
	MEAN	.779 29.	.81[illegible] 29.	.827 29.	.797 29.	.745 29.	.700 29.	.701 29.	.694 29.	.789 29.	.848 29.	.893 29.	.820	29.793
	S D	.218	.203	.230	.220	.190	.150	.113	.148	.163	.246	.259	.223	.210
	TOTAL OBS	300.	277.	302.	299.	301.	286.	301.	304.	295.	302.	291.	303.	3546
ALL HOURS	MEAN	.765 29.	.796 29.	.812 29.	.77[illegible] 29.	.727 29.	.686 29.	.689 29.	.68[illegible] 29.	.784 29.	.843 29.	.879 29.	.828	29.772
	S D	.219	.202	.234	.226	.197	.157	.118	.151	.162	.237	.258	.220	.212
	TOTAL OBS	2402	2171	2388	2303	2417	2278	2400	2418	2349	2424	2355	2419	28324


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