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SMOS, Imperial Beach, Ca.

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SMOS

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

STATION: #93115 Imperial Beach, CA

PERIOD: April 1945-December 1982

JOB NO. 72006

DATE October 1983

PREPARED BY
NAVAL OCEANOGRAPHY
COMMAND DETACHMENT,
FEDERAL BUILDING
ASHEVILLE, N.C. 28801

PREPARED FOR
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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Summary of Meteorological Observations, Surface (SMOS) Imperial Beach, CA		5. TYPE OF REPORT & PERIOD COVERED Reference Report 1973-1982
7. AUTHOR(s) NA		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Oceanography Command Detachment Federal Building Asheville, NC 28801		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS Commanding Officer Naval Oceanography Command Facility NSTL, MS 39529-5002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE October 1983
		13. NUMBER OF PAGES 358
		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
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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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

STATION NO. OR SUMMARY: 93115	STATION NAME: Imperial Beach, California	LATITUDE: 32°34' N	LONGITUDE: 117°07' W	STATION ELEV. (FT): 23	CALL SIGN: KNRS	WMO NUMBER:
----------------------------------	---	-----------------------	-------------------------	---------------------------	--------------------	-------------

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BARRMETER	
1.	Weather Service Office	Navy	1951	1968	32°34' N	117°07' W	28	Aneroid	Var
2.	" "	"	1968		"	"	23	"	"
3.	" "	"	1955	1956	"	"	29	Mercurial	"
3a.	" "	"	1956	1963	"	"	27	"	"
3b.	Inside bulkhead of Ops Bldg.	"	1963	1968	"	"	27	"	"
3c.	West wall in weather office	"	1968	1968	"	"	21	"	"
4.	*New ML-512/GM installed west wall in weather office 12/69	"	1969	1976	"	"	21	"	"
5.	Naval Weather Service Facility	"	1977	1980	"	"	28	Aneroid	"
5a.	Naval Oceanography Command Det/ NOCF San Diego	"	1980		"	"	36	"	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Note: Wind vane oriented 30° west of true north prior to 12/20/55. Mounted on roof of operation tower.	AN/UMQ-5B		50 MSL	1. Barograph (open scale) 2. Semi-auto met station (AN/GMQ-14B) 3. Cloud height set (AN/GMQ-13) 4. Thermoscreen (ML-41)
2.	1955	Top of control tower (new transmitter)	"	RD-108B	"	
3.	1962	Adjacent to runway 09R (2200' WSW of operations bldg)	AN/UMQ-5C	"	31 MSL	
4.	1966	" " " "	"	"	23 MSL	
5.	1968	Adjacent to runway 09R (4280' WSW of ops bldg) (new ops bldg 8/26/68)	"	"	"	
6.	1968	2600' W of Bldg 185 and 500' north of centerline runway 27	"	"	9'	
7.	1979		"	"	7'	

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Asheville, N. C.

CONTINUED ON REVERSE SIDE

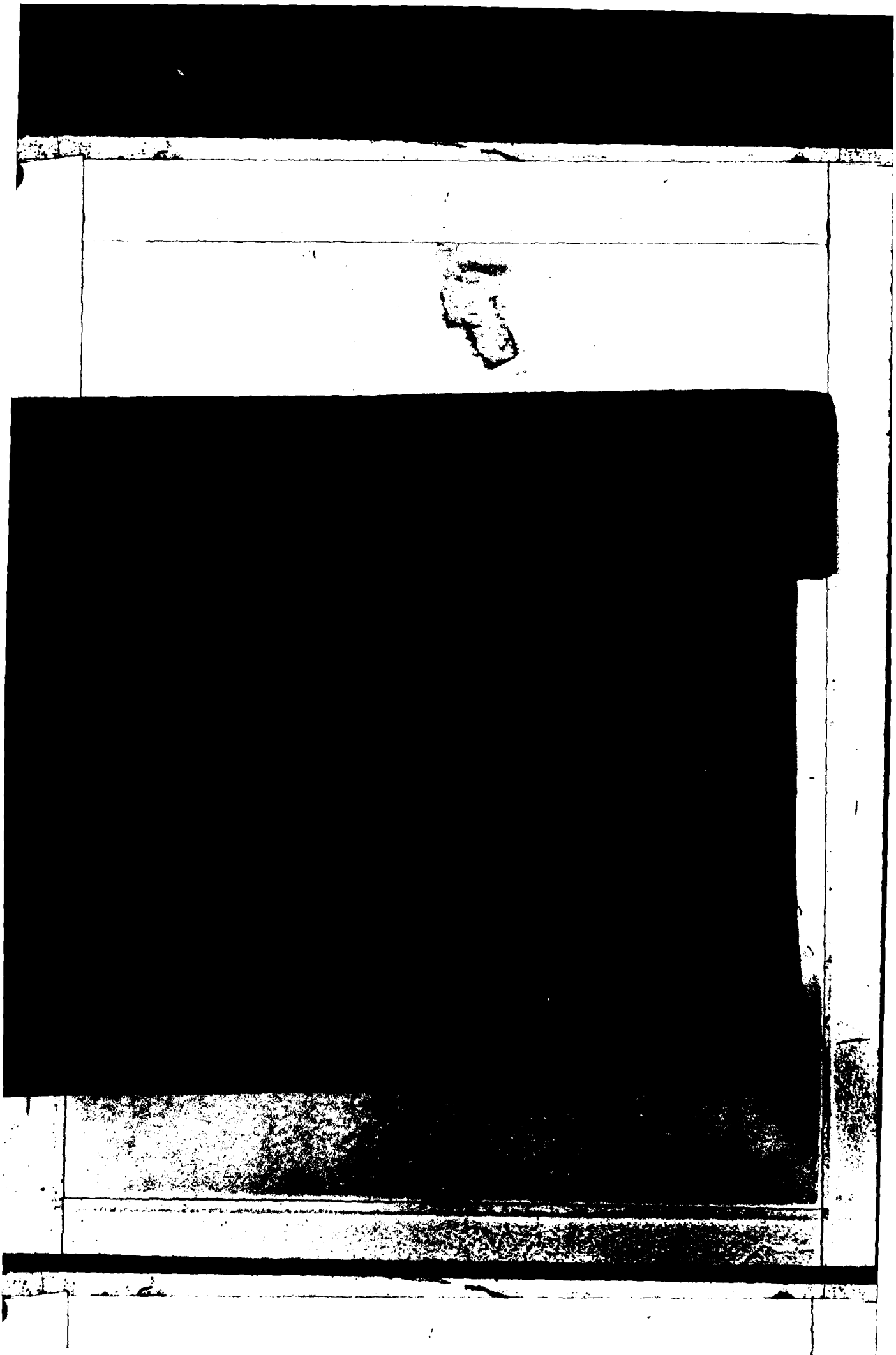
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: 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 recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

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.



NOCD, Federal Building
Asheville, N. C.

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

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

Occurrences of the various phenomena included in each category on the forms are listed below:

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

Rain and/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 unheated 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.)

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

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

93115
IMPERIAL BEACH, CALIFORNIA
45-49, 55-57, 59-71, 73-74
ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		29.0			.2	26.5	43.8	35.6		.4	50.9	475
FFB		1.4	27.1			.7	25.8	41.4	40.2			50.7	430
MAR		1.0	29.0			.2	26.8	38.2	30.9			43.8	482
APR		1.3	26.5			.6	25.7	36.8	41.9			50.1	475
MAY			21.5				18.7	24.3	33.8			40.5	477
JUN		.2	28.2				25.9	42.8	49.8			57.4	474
JUL		.6	10.9				9.5	49.1	67.4			77.8	527
AUG		.2	8.3				7.7	48.0	63.3			71.0	496
SEP		.4	13.1				12.3	52.2	65.5			71.1	464
OCT		1.1	15.8			.2	15.6	53.8	60.1		.6	68.1	474
NOV		1.0	23.7				22.1	47.6	42.1		1.2	58.6	485
DEC		.6	25.4		.2	.2	23.8	49.6	37.4		.8	58.7	484
TOTALS		.6	21.5		.0	.2	20.0	44.0	47.3		.2	58.9	5743

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

JAN

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.
JAN	01		25.0				25.0	25.0	25.0			25.0	4
	04								20.0			20.0	5
	07		6.7				6.7	12.6	5.6			16.4	269
	10		6.0				6.0	5.6	10.6		1.1	15.8	284
	13		6.0				6.0	2.5	10.6		.4	12.7	284
	16		7.9				7.9	2.9	10.0			12.5	280
	19		9.4				9.4	5.6	5.6			9.9	233
	22		11.3				11.3	7.5	11.3			15.1	106
TOTALS			9.0				9.0	7.7	12.3		.2	15.9	1465

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WEATHER CONDITIONS

93115
STATIONIMPERIAL BEACH, CALIFORNIA
STATION NAME73-82
YEARSFEB
MONTHPERCENTAGE 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.
FEB	01												
	04												1
	07		5.8				5.8	18.1	11.5			24.3	243
	10	.4	5.0			.4	5.0	8.8	15.7		.4	21.1	261
	13		2.7				2.7	5.0	13.0			14.9	261
	16		5.1				5.1	6.3	12.9			17.2	256
	19		6.0				6.0	8.8	9.8			15.3	215
	22		4.2				4.2	9.5	16.8			23.2	95
TOTALS		.1	4.1			.1	4.1	8.1	11.4		.1	16.6	1337

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WEATHER CONDITIONS

93115 IMPERIAL BEACH, CALIFORNIA 73-82 MAR

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.
MAR	01												
	04												
	07		7.6				7.6	12.4	13.8			21.1	275
	10		8.9				8.9	4.8	12.3			15.8	292
	13	.3	7.5				7.5	3.1	7.5			9.2	292
	16		6.0				6.0	2.8	3.2			5.3	283
	19	.4	6.5				6.5	.8	3.6			4.0	248
	22	.8	7.6				7.6	.8	1.5			2.3	131
TOTALS		.3	7.4				7.4	4.1	7.0			9.6	1521

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

APR

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.
APP	01												3
	04												1
	07		2.2				2.2	11.5	20.7			27.0	270
	10		2.1				2.1	3.6	15.7			17.8	281
	13		2.1				2.1	1.8	12.1			12.5	281
	16		2.2				2.2	1.1	10.0			10.0	269
	19		2.0				2.0	1.6	8.9			9.8	246
	22		1.4				1.4	.7	9.3			10.0	140
TOTALS			1.5				1.5	2.5	9.6			10.9	1491

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

MAY

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.
MAY	01								50.0			50.0	2
	04		50.0				50.0	50.0				50.0	2
	07		5.4				5.4	19.4	29.1			37.4	278
	10		3.2				3.2	9.0	24.8			27.0	278
	13		1.4				1.4	1.4	17.3			17.6	278
	16		1.2				1.2	2.9	13.2			13.6	242
	19		.4				.4	4.3	12.1			13.4	231
	22		2.2				2.2	4.4	12.6			14.1	135
TOTALS			8.0				8.0	11.4	19.9			27.9	1446

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

JUN

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	HAIR	% OF OBS WITH PRECP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01												
	04												
	07		3.9				3.9	31.1	47.7			63.6	283
	10		1.4				1.4	8.1	42.4			46.3	283
	13		.4				.4	2.1	26.6			27.0	262
	16							1.6	21.6			22.2	246
	19							7.6	17.2			22.3	238
	22							11.5	21.0			26.6	157
TOTALS			1.0				1.0	10.3	29.3			34.7	1491

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

JUL

STATION

STATION NAME

YEAR

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	HAZ	% OF OBS WITH PRECP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01												1
	04												
	07		1.1				1.1	35.3	60.4			60.9	283
	10		1.4				1.4	11.6	50.5			53.3	285
	13		.4				.4	2.5	29.5			29.5	285
	16		.9				.9	.9	15.8			15.8	234
	19							1.8	14.5			15.0	227
	22							5.9	20.3			22.9	153
TOTALS			.5				.5	8.3	27.3			29.3	1468

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WEATHER CONDITIONS

93115 IMPERIAL BEACH, CALIFORNIA 73-82 AUG

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.
AUG	01							100.0	100.0			100.0	1
	04							100.0				100.0	1
	07		2.1				2.1	34.6	57.1			66.8	289
	10							8.3	50.9		.3	52.6	289
	13		1.4				1.4	2.1	31.5			31.5	289
	16		.8				.8	.8	18.6			18.6	258
	19		.8				.8	1.7	19.2			19.6	240
	22		.6				.6	5.8	14.8			14.8	155
TOTALS			.7				.7	31.7	26.8		.0	30.7	1822

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JUL 2008 84321

WEATHER CONDITIONS

93115 IMPERIAL BEACH, CALIFORNIA 73-82 SEP
STATION NAME YEAR 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 PRCIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01							100.0	100.0			100.0	1
	04							50.0				50.0	2
	07		2.2				2.2	28.3	53.3			60.3	272
	10		2.2				2.2	9.2	48.9			49.6	272
	13	.4	1.5				1.5	9.1	32.7			33.5	272
	16	.4	1.3				1.3	2.6	23.0			23.4	255
	19		.4				.4	4.0	21.2			22.1	226
	22		1.4				1.4	5.6	14.8			18.3	142
TOTALS		.1	1.1				1.1	25.6	36.7			44.7	1422

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WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-92

OCT

STATION

STATION NAME

YEAR

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	HALE	% 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.
OCT	01												
	04												
	07		1.1				1.1	30.4	44.6			53.6	276
	10		1.1				1.1	10.7	46.6			49.1	281
	13		1.8				1.8	6.0	36.3			37.7	281
	16	.4	2.4				2.4	4.1	30.2			31.4	245
	19	.4	1.3				1.3	9.3	26.1			27.4	226
	22	1.4	2.1				2.1	18.4	31.2			34.0	141
TOTALS		.4	1.6				1.6	13.2	35.8			38.9	1450

NAVWEASERYCOM

WEATHER CONDITIONS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

NOV
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.
NOV	01												5
	04												6
	07		3.6				3.6	15.3	21.7			29.7	249
	10		2.3				2.3	11.0	22.3			26.6	264
	13		2.3				2.3	4.9	22.7			23.5	264
	16		1.5				1.5	4.2	21.2			22.0	264
	19		2.3				2.3	10.2	16.7			21.8	216
	22		2.1				2.1	13.5	17.7			27.7	141
TOTALS			1.6				1.6	7.4	16.3			18.9	1409

NAVWEASERYCOM

4

WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

73-82

DEC

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.
DEC	01							50.0				50.0	2
	04												1
	07		5.8				5.8	17.8	13.6		.4	28.3	258
	10		1.9				1.9	9.7	17.9		.4	25.0	268
	13		2.2				2.2	4.5	18.7		.4	21.3	268
	16		2.6				2.6	8.9	17.2		.4	20.6	267
	19		.5				.5	13.2	16.5		.5	25.0	212
	22		1.6				1.6	23.0	15.9			33.3	126
TOTALS			1.8				1.8	15.4	12.5		.3	25.4	1402

NAVWEASERVCOM

WEATHER CONDITIONS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

ALL
MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		9.0				9.0	7.7	12.3		.2	15.9	1465
FEB		.1	4.1			.1	4.1	8.1	11.4		.1	16.6	1332
MAR		.3	7.4				7.4	4.1	7.0			9.6	1521
APR			1.5				1.5	2.5	9.6			10.9	1491
MAY			8.0				8.0	11.4	19.9			27.9	1446
JUN			1.0				1.0	10.3	29.5			34.7	1491
JUL			.5				.5	8.3	27.3			29.3	1468
AUG			.7				.7	31.7	36.5		.0	50.7	1522
SEP		.1	1.1				1.1	25.6	36.7			44.7	1422
OCT		.4	1.6				1.6	13.2	35.8			38.9	1450
NOV			1.8				1.8	7.4	15.3			18.9	1409
DEC			1.8				1.8	15.4	12.5		.3	25.4	1402
TOTALS		.1	3.2			.0	3.2	12.1	21.1		.0	27.0	17419

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 JANUARY ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	2.3										11.6			86.0
NNE									7.5		12.5			82.5
NE		3.2							6.5	3.2	9.7			80.6
ENE		1.6							4.9	3.3	9.8			85.2
E	4.0	1.3							4.8	.9	8.8		.4	82.4
ESE	4.7	4.7	1.6						4.7	1.6	4.7		4.7	78.1
SE	15.8	13.2							15.8		2.6			57.9
SSE	14.0	14.0	2.3						9.3		2.3			67.4
S	9.9	15.1	1.9						5.7	.9	1.9			69.8
SSW	1.3	4.0							4.0		10.7			82.7
SW	1.7	7.0							1.8		8.8			80.7
WSW	2.4	4.7							8.2	1.2	5.9			81.2
W	.6	2.4	.6						4.2		11.3			82.7
WNW	.8	.8	.8						3.2	.8	9.6			85.6
NW	2.2								4.4		11.0			83.5
NNW			2.2						6.5	2.2	8.7			82.6
VARIABLE														
CALM	1.6	.8	.6						4.1		12.7			80.8
TOTAL	89	92	8						77	10	130		4	1179
% TOTAL	3.3	3.5	.8						5.3	.7	8.9		.3	80.5

TOTAL NUMBER OF OBSERVATIONS 1,465

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

43115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 FEBRUARY ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		2.5							5.0		30.0			62.5
NNE									7.7		7.7		2.6	87.2
NE									17.6	2.9	14.7			67.6
ENE	1.7								6.9		8.6			84.5
E	1.9	3.2	.6						12.1	1.9	7.6			77.7
ESE		2.3							6.8	2.3	13.6			81.8
SE	11.1		3.7						7.4		11.1			70.4
SSE	12.1	12.1							12.1		6.1			66.7
S	6.5	7.5							8.6		5.4			77.4
SSW		8.3							14.6		10.4			77.1
SW	1.9	3.7							7.4		3.7			87.0
WSW	1.4	1.4							10.8	2.7	10.8			82.4
W	.6	2.8							5.6	.6	15.7			77.5
WNW	.6	1.3							5.0		17.5			78.8
NW	1.0	1.0							4.9		10.7			84.5
NNW	2.0	2.0					2.0	2.0	6.1		20.4			73.5
VARIABLE														
CALM	2.1	1.4							13.8	.7	12.7			66.7
TOTAL	26	36	2				1	1	115	9	173		1	1030
% TOTAL	2.0	2.7	.2				.1	.1	8.6	.7	13.0		.1	77.5

TOTAL NUMBER OF OBSERVATIONS 1,332

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 MARCH ALL
STATION STATION NAME YEARS MONTH HOURS T.L.S.Y.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS" ICE CRYSTALS	SNOW "GRAINS" "PELLETS" "SHOWERS"	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	4.0								4.2		4.2			87.5
NNE		5.6						5.6	5.6	5.6	16.7			77.8
NE	5.6										11.1			83.3
ENE	2.9	2.9							5.9		8.8			79.4
E		3.1	.8						7.9	2.4	13.4			78.7
ESE	2.5	2.5							10.0		7.5			85.0
SE	5.6	5.6	5.6						16.7		11.1			66.7
SSE	5.9	25.6							11.8		5.9			67.6
S	14.8	10.2	4.6						6.5		1.9			69.4
SSW	2.9	3.8	1.9						1.9		3.8			88.5
SW	1.1	6.3	4.2					1.1	6.3		6.3			78.9
WSW		6.5	1.4						2.9		7.2			84.2
W	1.5	1.5	1.5					.3	2.5	.9	8.3			86.1
WNW		5.0							1.1	.6	8.3			85.6
NW		1.9	.9						.9		3.7			92.6
NNW											7.5			92.5
VARIABLE CALM	2.1	1.0							5.2		11.3			82.5
TOTAL	34	62	21					3	60	8	116			1267
% TOTAL	2.2	4.1	1.6					.2	3.9	.5	7.6			83.3

TOTAL NUMBER OF OBSERVATIONS 1,521

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

4
22401

47115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 APRIL ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N											10.0			90.0
NNE									9.1					90.9
NE									8.3		16.7			75.0
ENE			4.0						12.0		20.0			72.0
E		2.0							6.1	2.0	20.4			69.4
ESE									10.7		28.6			71.4
SE	12.5								12.5		12.5			62.5
SSE	10.5	5.3							5.3		10.5			73.7
S	1.5	3.1							4.6		10.8			81.5
SSW									3.1		16.5			70.5
SW		1.6	.9						3.7		9.2			15.2
WSW		1.7	.6						4.0		13.6			83.0
W	.3	.8	.6						1.7		12.4			85.4
WNW	.4	.4							1.6		9.7			89.3
NW	2.9										11.5			85.6
NNW														100.0
VARIABLE														
CALM	2.0		1.0						6.9	2.0	17.0			73.3
TOTAL	11	14	6						50	4	195			1242
% TOTAL	.7	.9	.4						3.4	.3	13.1			83.3

TOTAL NUMBER OF OBSERVATIONS 1,491

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

43115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

MAY
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									33.3		50.0			50.0
NNE									25.0		50.0			25.0
NE									16.3		57.1			42.9
ENE		6.7							20.0		26.7			53.3
E		3.1							6.3		28.1			68.8
ESE									6.3					91.7
SE														100.0
SSE	3.3	8.3	4.3						25.0		25.0			41.7
S		2.5	1.3						6.8		16.3			78.8
SSW			4.0						10.1		19.8			75.2
SW	.6		2.3						4.5		16.9			80.2
WSW		.4	2.1						5.0		17.2			79.9
W		.8	1.4						6.8		19.2			77.5
WNW			1.7						6.3		21.3			76.4
NW									6.2		18.5			78.5
NNW									26.7		20.0			66.7
VARIABLE CALM									1.3	1.2	18.3			78.0
TOTAL	2	9	25						106	1	276			1113
% TOTAL	.1	.6	1.7						7.3	.1	19.1			77.0

TOTAL NUMBER OF OBSERVATIONS 1,446

NAVWEASERVCOM



2241

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

3115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 JUNE ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N			7.1						14.3		71.4			21.4
NNE									8.3		50.0			33.3
NE									16.7		33.3			66.7
ENE										16.7	50.0			33.3
E									14.3		39.7			57.1
ESE									20.0		40.0			40.0
SE									57.1		57.1			28.6
SSE			12.5						37.5		62.5			37.5
S	1.4		4.2						15.5	1.4	29.6			60.6
SSW	.8								10.4		29.6			60.0
SW			.6						12.3		33.1			60.4
WSW			1.0						7.3		29.9			68.8
W			.7						4.0	.2	26.9			71.0
WNW			.3						8.7	.9	28.9			65.6
NW			2.6						12.8	1.3	48.2			48.7
NNW									29.6		37.0			44.4
VARIABLE														
CALM									12.0	1.9	28.1			60.3
TOTAL	2		14						149	8	455			949
% TOTAL	.1		.9						10.0	.5	30.3			63.6

TOTAL NUMBER OF OBSERVATIONS 1,491

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

JULY

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									50.0		100.0			
NNE									37.5		62.5			25.0
NE									28.6		71.4			14.3
ENE									40.0		80.0			20.0
E									40.0		80.0			20.0
ESE														
SE											50.0			50.0
SSE														100.0
S			1.3						18.4		32.9			59.2
SSW		.7	1.3						16.0		35.3			61.3
SW		.8							10.8		29.2			67.7
WSW		.4							6.2		30.7			68.0
W			.7						6.8		36.6			62.1
WNW			.4						5.7		29.4			68.9
NW									16.1		39.3			55.4
NNW									28.6		85.7			14.3
VARIABLE														
CALM									22.3	1.0	30.2			62.2
TOTAL		3	7						194	1	300			927
% TOTAL		.2	.5						10.8	.1	34.1			63.1

TOTAL NUMBER OF OBSERVATIONS 1,468

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93115

IMPERIAL BEACH, CALIFORNIA

JANUARY 1973-DECEMBER 1982

AUGUST

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEDG RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									9.1		54.5			45.5
NNE		12.5							25.0		37.5			50.0
NE											48.2			53.8
ENE									50.0		70.0			20.0
E									29.4	8.9	47.1			29.4
ESE									25.0	12.8	37.8			50.0
SE									50.0		88.7			33.3
SSE									25.0		50.0			50.0
S	1.7		1.7						22.4		43.1		1.7	48.6
SSW	2.8								11.2		42.1			50.5
SW		.7							8.0		33.8			83.4
WSW			.8						10.7		35.8			83.3
W	.2								3.8		27.3			72.0
WNW									8.0		30.4			87.8
NW	.9								14.2		38.7			87.5
NNW			4.3						8.7		28.1			73.9
VARIABLE														
CALM	1.0	.8	.8						12.7		81.8			50.8
TOTAL	8	3	4						143	2	520		1	954
% TOTAL	.5	.2	.3						9.8	.1	34.2		.1	62.7

TOTAL NUMBER OF OBSERVATIONS 1,522

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

43115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 SEPTEMBER ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS" ICE CRYSTALS	SNOW "GRAINS" "PELLETS" "SHOWERS"	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	10.0								10.0		20.0			70.0
NNE									22.2		44.4			44.4
NE									36.8		42.1			52.6
ENE									23.8	4.8	38.1			47.6
E									14.0		48.8			51.2
ESE	6.3								12.5		37.5			36.3
SE											50.0			50.0
SSE		11.1									33.3			33.6
S		1.4	2.9						17.1		24.3			69.7
SSW		1.9	1.0					1.0	12.6		27.2			67.0
SW	1.1	1.1							10.1	1.1	38.2			36.2
WSW		.7						.7	11.1		34.0			63.9
W	.3	.6	.6						6.3		34.0			62.2
WNW			.3						6.4	.8	37.7			61.3
NW		.8							3.8		26.3			71.4
NNW			5.4						8.1		21.6			75.7
VARIABLE														
CALM									11.5	.8	14.2			60.0
TOTAL	4	10	8					2	137	4	476			888
% TOTAL	.3	.7	.6					.1	9.8	.3	33.5			62.4

TOTAL NUMBER OF OBSERVATIONS 1,422

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

OCTOBER
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N			4.3						17.4		17.4			73.9
NNE									29.4	5.9	32.9			47.1
NE		3.8							23.1		42.3			46.2
ENE									70.0		22.8			70.0
E		3.0						2.0	24.8	2.0	39.6			50.9
ESE									33.3		41.7			50.0
SE									23.1		18.4			61.3
SSE									12.8		12.8			67.5
S	4.2	4.2						4.2	10.4		20.8			64.6
SSW	2.2	1.1							7.7		24.2			69.2
SW		2.7							8.2		23.3			67.9
WSW	1.0	1.0							8.7		36.2			61.9
W		1.1							9.7	.7	37.3			59.7
WNW		1.2							8.3	1.6	47.1			51.0
NW		.8							8.3	1.7	39.2			57.9
NNW									10.8	2.7	39.1			62.2
VARIABLE									17.4	.8	18.3			17.2
CALM														
TOTAL	5	17	1					4	175	13	530			850
% TOTAL	.3	1.2	.1					.3	12.1	.9	38.6			58.6

TOTAL NUMBER OF OBSERVATIONS 1,450

NAVWEASERYCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

73115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 NOVEMBER ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									8.0		20.0			78.0
NNE									7.7		10.3			80.6
NE		2.6							7.3		12.2			85.4
ENE			1.3						7.9	1.3	21.1			71.1
E	1.2	.6							12.6	1.2	16.8			73.7
ESE			2.0						16.0	2.0	20.0			70.0
SE	10.5										31.6			57.9
SSE	6.7								13.3		26.7			60.0
S	6.4	4.3	4.3						4.3	2.1	10.6			70.2
SSW		5.6							4.1	1.4	10.8			81.1
SW		2.6							5.3		15.8			78.9
WSW		2.4							7.3		20.7			74.4
W	1.1		.6						9.0		27.5			69.1
WNW	.7	.7							6.2	1.4	25.3			71.0
NW	.9								7.8	.9	23.3			73.3
NNW	1.6	1.6							4.9		19.7			73.8
VARIABLE														
CALM									11.3	.8	20.2			71.7
TOTAL	13	15	6						122	10	205			1033
% TOTAL	.9	1.1	.4						8.7	.7	20.2			73.3

TOTAL NUMBER OF OBSERVATIONS 1,409

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

3115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 DECEMBER ALL
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEDG RAIN FREEDG DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		1.8							3.6		18.2			78.2
NNE		4.8							13.3	2.2	8.9			77.8
NE	2.7								4.0		6.0			88.0
ENE			1.1						11.0	1.1	18.7			74.7
E		.9	1.3						13.3	.9	17.3		2.2	88.6
ESE	2.9								20.0	8.7	22.9			82.9
SE	3.7								14.8		7.4			77.8
SSE		5.0	5.0						10.0		10.0			70.0
S	5.2	3.4	3.4						17.2		8.8			89.0
SSW	2.7	4.1	1.4						5.4		16.2			74.3
SW									9.8		13.7			78.4
WSW		3.2							3.2		21.0			78.8
W	.7	.7							10.3		28.3			88.3
WNW									3.8	.8	14.8			81.5
NW									4.0		17.3			80.0
NNW									2.8		23.1			78.9
VARIABLE														
CALM			1.4						12.9	.8	12.8			88.8
TOTAL	9	16	11						147	8	234		5	1030
% TOTAL	.8	1.4	.8						10.3	.8	18.7		.4	73.3

TOTAL NUMBER OF OBSERVATIONS 1,402

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

3315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

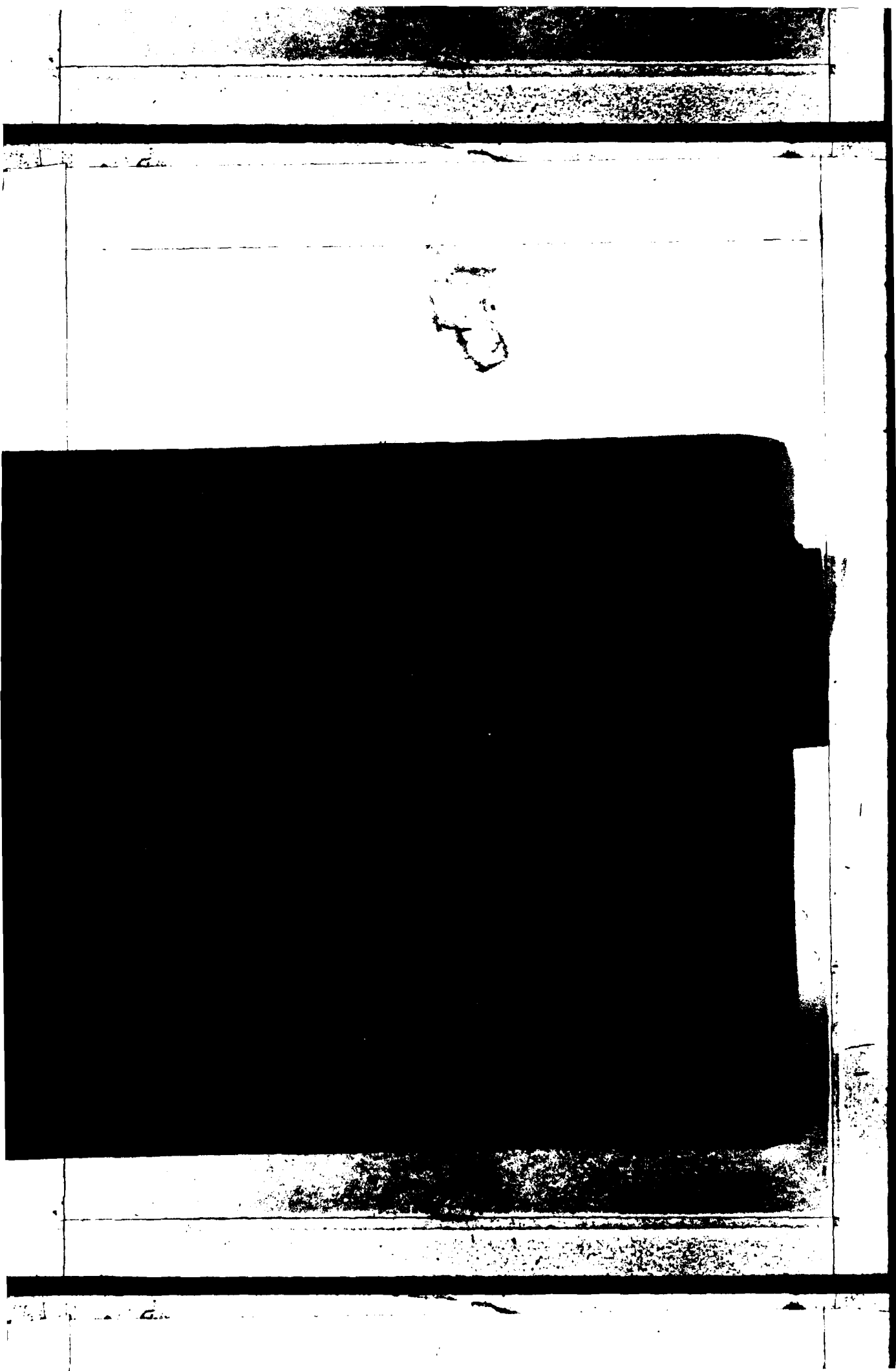
ALL
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW "GRAINS "PELLETS "SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.0	.7	.7						6.9		22.9			72.6
NNE		1.6						.4	12.4	1.2	19.2		.4	72.8
NE	.8	1.1							11.7	.8	21.2			71.2
ENE	.5	.7	.7						11.5	1.4	19.7			72.2
E	1.2	1.7	.4					.2	11.4	1.4	18.4		.5	71.2
ESE	1.4	1.5	.6						12.9	1.8	18.1		.9	72.1
SE	7.9	3.4	1.1						14.7		15.8			63.8
SSE	7.2	9.9	1.8						11.7		14.3			65.0
S	4.9	5.1	2.2					.2	11.1	.3	15.6		.1	68.4
SSW	1.0	1.8	1.0					.1	8.9	.1	22.3			71.5
SW	.4	1.8	.8					.1	7.3	.1	21.4			72.6
WSW	.2	1.5	.6					.1	6.7	.2	22.7			73.3
W	.4	.7	.6					.0	5.4	.2	24.5			72.5
WNW	.2	.7	.3						5.1	.5	24.9			72.3
NW	.7	.4	.3						6.5	.3	23.4			72.9
NNW	.5	.5	1.0				.2	.2	8.0	.5	20.7			74.5
VARIABLE														
CALM	1.9	1.5	1.4						14.0	1.7	24.3			67.3
TOTAL	163	237	112				1	10	1437	78	3090		11	12462
% TOTAL	.9	1.4	.6				.0	.1	8.2	.4	22.3		.1	71.5

TOTAL NUMBER OF OBSERVATIONS 17,419

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Asheville, N. C.

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

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 amounts (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.

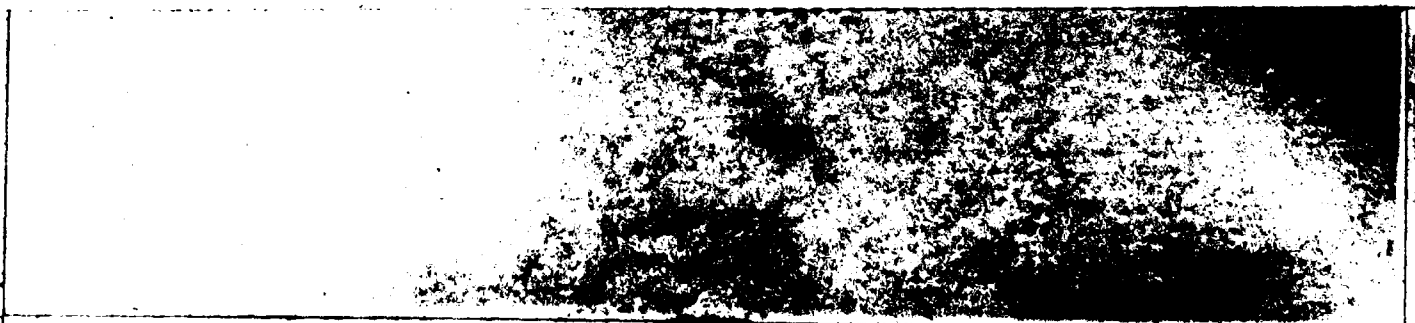
DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

3116 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-42, 55-81 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.03	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	74.5	6.6	2.1	4.1	2.3	4.0	3.9	1.5	1.0					19.0	775	1.48	5.93	TRACE
FEB	77.4	9.3	1.9	4.3	3.2	3.7	2.6	2.1	.2					16.0	621	1.04	3.09	TRACE
MAR	77.9	6.8	1.5	3.5	4.1	4.0	3.9	1.5	.1					18.7	775	1.19	3.70	TRACE
APR	77.9	8.6	1.4	2.8	2.7	3.5	2.0	1.0	.1					13.5	810	.72	3.22	TRACE
MAY	80.7	12.0	1.2	2.9	1.0	1.0	.1	.1	.1					6.5	806	.18	1.15	.00
JUN	80.4	10.3	.6	1.9	.2	.1	.5							3.3	810	.08	.51	.00
JUL	81.0	7.5	.6	.2	.4		.2							1.4	837	.04	.60	.00
AUG	82.7	5.4	.5	.6		.1		.1	.1					1.4	868	.04	2.10	.00
SEP	87.7	6.5	.1	1.0	.4	.3	.4	.1	.4					2.6	780	.18	2.25	.00
OCT	84.9	5.3	.9	1.9	1.4	1.4	.6	.5						6.8	806	.28	1.72	TRACE
NOV	82.4	4.2	1.5	3.1	1.7	3.1	1.9	1.3	.8					13.3	760	1.06	6.42	.00
DEC	74.5	6.3	.6	3.8	2.4	3.0	2.5	1.6	.2					14.1	806	.96	4.40	TRACE
ANNUAL	81.5	5.6	1.1	2.5	1.7	2.0	1.5	.8	.2					9.9	9474	7.29		

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DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-4", 55-91 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)			
	NONE	TRACE	.01	.02-.05	.06-10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			OVER 50.4	OVER 120	MEAN	GREATEST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4	OVER 120					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	100.0															775	.0	.0	.0
FEB	100.0															707	.0	.0	.0
MAR	100.0															744	.0	.0	.0
APR	100.0															840	.0	.0	.0
MAY	100.0															806	.0	.0	.0
JUN	100.0															810	.0	.0	.0
JUL	100.0															837	.0	.0	.0
AUG	100.0															837	.0	.0	.0
SEP	100.0															780	.0	.0	.0
OCT	100.0															806	.0	.0	.0
NOV	100.0															750	.0	.0	.0
DEC	99.0	.1														806	TRACE	TRACE	.0
ANNUAL	100.0	.0														9498	.0	×	×

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4

43149

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNG. DEPTH
(FROM DAILY OBSERVATIONS)

STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 47-43, 55-81 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-13.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	100.0														744			
FEB	100.0														707			
MAR	100.0														744			
APR	100.0														780			
MAY	100.0														775			
JUN	100.0														780			
JUL	100.0														606			
AUG	100.0														775			
SEP	100.0														750			
OCT	100.0														775			
NOV	100.0														750			
DEC	100.0														775			
ANNUAL	100.0														9161			

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

8315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-82
YEARS

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45						TRACE	.50	TRACE	TRACE	TRACE	TRACE	TRACE	
46	TRACE		TRACE	TRACE	.00								
47					TRACE						.00		
48					.00	TRACE	.00	.00					
49												.11	
50	.67	.10	TRACE	.76	.04	TRACE	TRACE	TRACE	.00	.22	.00	.11	.76
51	1.63	.27	.32	.62	.34	.33	TRACE	TRACE	.04	.60	.37	.05	1.63
52	.40	1.04	.71	.62	.53	.00	.00	.04	.34	.03	.17	.05	1.08
53	.20	.89	TRACE	.15	.01	.02	TRACE	TRACE	TRACE	.27	.02	.55	.89
54	1.12	.37	.17	.45	.16	TRACE	TRACE	TRACE	.17	.09	.35	.15	1.12
55	.62	.02	.30	.01	.02	.02	TRACE	.05	TRACE	.01	.40	.74	.74
56	1.01	.50	.20	TRACE	.23	.04	TRACE	TRACE	TRACE	TRACE	.04	.19	1.01
57	.03	.50	.53	.25	TRACE	.43	TRACE	.05	1.12	.12	1.89	TRACE	1.89
58	.67	.14	.47	.25	.07	TRACE	TRACE	TRACE	TRACE	TRACE	.56	.66	.66
59	.12	.37	.55	1.24	TRACE	.02	.06	TRACE	.12	TRACE	1.77	1.42	1.77
60	.63	.81	.10	TRACE	TRACE	.31	.01	.00	TRACE	.54	1.31	.85	1.31
61	1.42	TRACE	.76	.01	.07	.07	.07	.04	TRACE	TRACE	1.06	1.33	1.42
62	.37	.45	1.58	.23	.04	.02	.06	TRACE	.00	.02	.11	.28	1.58
63	1.36	.86	.93	.10	.11	.01	TRACE	.01	TRACE	.02	.51	.19	1.36
64	.31	.70	.97	.11	.04	TRACE	TRACE	TRACE	TRACE	.07	1.59	.70	1.59
65	.21	.66	.08	.47	.21	TRACE	TRACE	TRACE	.05	.23	.05	.41	.66
66	TRACE	.08	.01	.06	.12	.29	TRACE	.01	.10	.24	.62	.98	.98
67	.59	.55	.58	.07	TRACE	TRACE	TRACE	TRACE	TRACE	TRACE	.48	.06	.59
68	.43	.01	.73	TRACE	TRACE	.01	.02	TRACE	TRACE	.35	.29	.77	.77
69	.25	.24	.34	.39	.03	.01	.01	TRACE	.08	.12	.53	.28	.53
70	TRACE		.52	.38	.10	TRACE	.01	TRACE	1.12	.27	.80	.48	
71	.91	.09	.52	.02	1.02	.03	.00	1.41	.01	.61	.01		
72				.32		.00		TRACE					
73		.44	.04	.04		.04	TRACE	.01	.00	.37	.35	.04	
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES.

PRECIPITATION
(FROM DAILY OBSERVATIONS)

97115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-47, 55-82
YEARS

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
70	1.87		.87	.40	.05	TRACE	TRACE	.00	.00	.19	.00	.11	
71	.35			.10			TRACE	.00	.02	.10		.34	
72													
MEAN	.67	.49	.45	.29	.13	.08	.03	.00	.12	.17	.51	.43	1.12
S. D.	.532	.321	.309	.307	.221	.122	.097	.269	.303	.191	.562	.399	.420
TOTAL OBS.	779	627	775	810	806	810	837	868	780	804	780	806	9474

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

93115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-42, 55-02 YEARS

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

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				0									PRECIP DAYS
46		TRACE 27											PRECIP DAYS
47	.00 1	0	0	0			.00 1		0	0		0	PRECIP DAYS
48				0									PRECIP DAYS
49	0												PRECIP DAYS
55											.00 16		PRECIP DAYS
76		.00 28											PRECIP DAYS
77												.63 26	PRECIP DAYS
78	.75 29	.61 27	.82 30		.07 28		TRACE 30		.03 27	.03 29	.68 28	1.27 26	PRECIP DAYS
79	2.11 30				.09 28								PRECIP DAYS
80		.72 28											PRECIP DAYS
81		.51 24	1.03 30		TRACE 30	TRACE 26							PRECIP DAYS
82	.10 6	.24 19	1.05 15	.47 10	TRACE 25	.00 6	.00 19	TRACE 18	.00 7	.02 25	.39 9	.56 16	PRECIP DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

03115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-49, 55-02 YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45						.0	.0	.0	.0	.0		.0	
46	.0			.0	.0								
47					.0						.0		
48				.0		.0	.0						
49													
55												.0	
56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
78				.0	.0	.0	.0	.0	.0	.0	.0	.0	
79				.0	.0	.0	.0	.0	.0	.0	.0	.0	
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

23115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-49, 55-82 YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
82													
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	TRACE	.00
S. D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	779	767	749	840	806	810	837	837	780	806	750	806	9498

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

3315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-48, 55-62
YEARS

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

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				0							.0 29		SNOWFALL DAYS
46		.0 27	.0 30										SNOWFALL DAYS
47	.0 1	0	0	0			.0 1		0	0		0	SNOWFALL DAYS
48					0			.0 2					SNOWFALL DAYS
49	0												SNOWFALL DAYS
55											.0 22		SNOWFALL DAYS
77												.0 29	SNOWFALL DAYS
78	.0 29	TRACE 27	.0 30		.0 28		.0 30		.0 27	.0 29	.0 28	.0 26	SNOWFALL DAYS
79	.0 30												SNOWFALL DAYS
81			.0 30		.0 30	.0 26							SNOWFALL DAYS
82	.0 6	.0 19	TRACE 15	.0 10	.0 25	.0 6	.0 19	.0 18	.0 7	.0 25	.0 9	.0 16	SNOWFALL DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

53115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-48, 55-82

YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45													
46													
47													
48						0	0						
49													
50												0	
51	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

23115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 55-82 YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
'80	0	0	0	0	0	0	0	0	0	0	0	0	0
'81	0	0	0	0	0	0	0	0	0	0	0	0	0
'82													
MEAN	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S. D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	744	707	744	780	779	780	806	779	750	779	750	779	9161

SMOS



NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

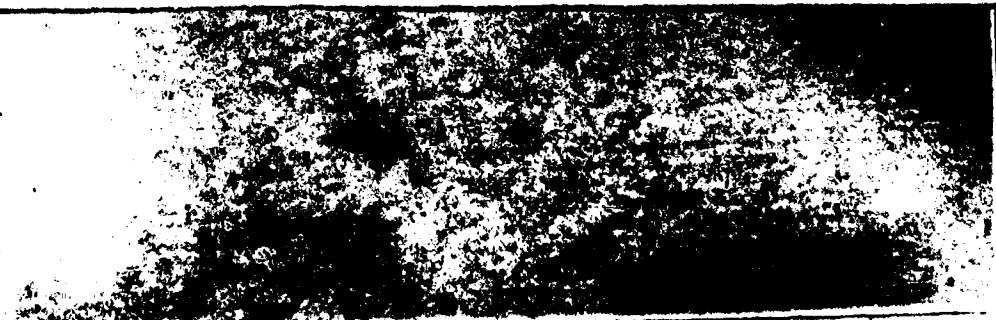
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

23115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-49, 55-82 YEARS

DAILY SNOW DEPTH IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				0		0	0	0	0	0	0	0	SNO DPTH DAYS
46	1	1	0	0	0								SNO DPTH DAYS
47	1	0	0	0			1		0	0		0	SNO DPTH DAYS
48				0	0			2					SNO DPTH DAYS
49	0												SNO DPTH DAYS
55											0		SNO DPTH DAYS
60								0					SNO DPTH DAYS
77								10				0	SNO DPTH DAYS
78	29	27	30		28		30		27	29	28	26	SNO DPTH DAYS
79	30												SNO DPTH DAYS
81			10		30	26							SNO DPTH DAYS
82	6	19	15	10	25	6	19	18	7	25	9	16	SNO DPTH DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS



NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9999-9999

STATION

STATION NAME

YEARS

JANUARY
MONTH

FEBRUARY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.11		3 1960			
2	0.18		5 1977			
3	0.20		5 1977			
4	0.43		11 1974			
5	0.29		7 1974			
6	0.91		23 1977			
7	1.63		41 1957			
8	0.44		11 1957			
9	1.08		27 1980			
10	0.56		14 1960			
11	0.67		17 1980			
12	1.18		30 1960			
13	0.85		22 1957			
14	1.36		35 1969			
15	0.54		14 1978			
16	0.45		11 1973			
17	0.28		7 1979			
18	0.59		15 1973			
19	0.18		5 1978			
20	1.01		26 1962			
21	0.60		15 1964			
22	1.42		36 1967			
23	0.03		1 1967			
24	0.57		14 1962			
25	0.36		9 1969			
26	0.68		17 1961			
27	0.63		16 1966			
28	0.47		12 1980			
29	1.87		47 1980			
30	0.53		13 1966			
31	0.11		50 1979			
Monthly	0.11		50 1979			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.37		9 1960			
2	0.50		13 1981			
3	0.78		20 1958			
4	1.08		27 1958			
5	0.68		17 1976			
6	0.83		21 1969			
7	0.55		14 1976			
8	0.80		20 1976			
9	0.51		13 1981			
10	0.70		18 1976*			
11	0.58		15 1959	T	T	1978
12	0.16		4 1973			
13	0.48		12 1973			
14	0.25		6 1980			
15	0.23		6 1980			
16	0.64		16 1959			
17	0.66		17 1971			
18	0.58		14 1969			
19	0.72		18 1980			
20	0.28		7 1962			
21	0.89		23 1959			
22	0.86		22 1969			
23	0.27		7 1957			
24	0.22		6 1962			
25	0.32		8 1958			
26	0.22		6 1962			
27	0.61		15 1978			
28	0.48		12 1970			
29	0.14		4 1964			
30						
31						
Monthly	1.08		27 1958	T	T	1978

* ALSO ON EARLIER YEARS
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9999-9999

STATION

STATION NAME

YEARS

MARCH
MONTH

APRIL
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.97	25	1970			
2	1.00	25	1981			
3	1.00	25	1946			
4	0.35	9	1970			
5	1.03	26	1981			
6	0.87	22	1980			
7	0.49	12	1974			
8	1.58	40	1968			
9	0.19	5	1968			
10	0.74	19	1980			
11	0.58	15	1973			
12	0.81	21	1978			
13	0.43	11	1969			
14	0.23	6	1975			
15	0.55	14	1965			
16	0.59	15	1958			
17	1.05	27	1982			
18	0.45	11	1982	T	T	1982
19	0.45	11	1946			
20	0.46	12	1979			
21	0.44	11	1979			
22	0.46	12	1980			
23	0.47	12	1964			
24	0.17	4	1958			
25	0.48	12	1977			
26	0.31	8	1980			
27	0.36	9	1958			
28	0.32	8	1979			
29	0.16	4	1982			
30	0.16	4	1946			
31	0.82	21	1978			
Monthly	1.58	40	1968	T	T	1982

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.52	13	1956			
2	0.19	5	1978			
3	0.62	16	1958			
4	0.35	9	1958			
5	0.08	2	1965			
6	0.33	8	1975			
7	0.62	16	1958			
8	1.24	31	1965			
9	0.41	10	1965			
10	0.06	2	1965			
11	0.81	21	1967			
12	0.76	19	1956			
13	0.66	17	1956			
14	0.17	4	1971			
15	0.20	5	1976			
16	0.09	2	1975*			
17	0.12	3	1963			
18	0.42	11	1971			
19	0.29	7	1967			
20	0.62	16	1957			
21	0.12	3	1967*			
22	0.42	11	1967			
23	0.12	3	1980			
24	0.07	2	1967			
25	0.14	4	1959			
26	0.25	6	1963			
27	0.45	11	1960			
28	0.38	10	1980			
29	0.23	6	1980			
30	0.07	2	1973			
31						
Monthly	1.24	31	1965			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

STATION

STATION NAME

YEARS

MAY
MONTH

JUNE
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	7.00		2 1980			
2	0.02		1 1980*			
3	0.15		4 1960			
4	7.06		2 1969			
5	7.04		1 1969			
6	0.21		5 1971			
7	5.19		5 1971			
8	7.02		26 1977			
9	0.09		2 1956			
10	7.07		2 1957			
11	0.53		13 1958			
12	0.05		1 1977			
13	T		T 1980*			
14	0.04		1 1957			
15	T		T 1974*			
16	0.13		3 1962			
17	T		T 1973*			
18	T		T 1973*			
19	0.07		2 1957			
20	0.12		3 1972			
21	0.16		4 1957			
22	T		T 1980			
23	0.05		1 1967			
24	T		T 1982*			
25	7.01		1967*			
26	0.23		6 1962			
27	0.05		1 1962			
28	0.04		1 1971			
29	0.01		1971			
30	7.01		1962			
31	T		T 1974*			
Monthly	1.02		26 1977			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T		T 1979*			
2	0.04		1 1979			
3	0.02		1 1965			
4	T		T 1979*			
5	0.03		1 1977			
6	T		T 1979*			
7	0.02		1 1968*			
8	0.03		1 1957			
9	0.11		3 1957			
10	0.33		8 1957			
11	0.43		11 1963			
12	0.03		1 1967*			
13	0.07		2 1967			
14	T		T 1969*			
15	0.04		1 1962			
16	T		T 1975*			
17	T		T 1980*			
18	0.01		1975			
19	0.31		8 1966			
20	0.29		7 1972			
21	T		T 1972*			
22	0.02		1 1972			
23	T		T 1968			
24	T		T 1974*			
25	T		T 1971*			
26	T		T 1968*			
27	T		T 1969*			
28	0.02		1 1959			
29	T		T 1979*			
30	T		T 1972*			
31						
Monthly	0.43		11 1963			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1987

STATION

STATION NAME

YEARS

JULY
MONTH

AUGUST
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.30	8	1945			
2	T	T	1970*			
3	T	T	1980*			
4	0.50	13	1945			
5	T	T	1968			
6	0.03	1	1968			
7	T	T	1973*			
8	0.01		1966			
9	T	T	1967*			
10	T	T	1970			
11	T	T	1969			
12	T	T	1975*			
13	T	T	1976			
14	0.01		1974			
15	T	T	1981*			
16	T	T	1976*			
17	T	T	1976			
18	T	T	1966*			
19	T	T	1963			
20	T	T	1979*			
21	T	T	1972*			
22	T	T	1976*			
23	T	T	1975*			
24	T	T	1956			
25	0.01		1976			
26	0.07	2	1967			
27	T	T	1969*			
28	0.06	2	1968			
29	0.06	2	1965			
30	T	T	1976			
31	T	T	1978*			
Monthly	0.50	13	1945			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1977*			
2	T	T	1971			
3	T	T	1969			
4	0.05	1	1961			
5	T	T	1969			
6	T	T	1972*			
7	T	T	1967*			
8	0.05	1	1963			
9	T	T	1975*			
10	0.01		1969			
11	T	T	1975			
12						
13	0.01		1979			
14	0.04	1	1958			
15	0.17	4	1977			
16	1.41	36	1977			
17	0.51	13	1977			
18	0.03	1	1961			
19	0.01		1977			
20	T	T	1973			
21						
22						
23	T	T	1982			
24	T	T	1982*			
25	T	T	1982*			
26						
27						
28						
29	0.01		1972			
30	T	T	1976			
31	0.04	1	1967			
Monthly	1.41	36	1977			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

STATION

STATION NAME

YEARS

SEPTEMBER MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1960			
2	T	T	1976*			
3	0.03		1 1976			
4	1.12	28	1963			
5	T	T	1978*			
6	0.06	2	1972			
7	0.00	2	1975			
8	0.02	1	1972			
9	0.33	8	1976			
10	1.12	28	1976			
11						
12	T	T	1963*			
13	T	T	1975*			
14	T	T	1969*			
15	T	T	1971*			
16	T	T	1965*			
17	0.58	15	1963			
18	0.50	13	1963			
19	0.05	1	1963			
20	T	T	1969			
21	T	T	1973*			
22	T	T	1973			
23	T	T	1958			
24	0.34	9	1958			
25	T	T	1970*			
26	0.01		1977			
27	T	T	1966*			
28	T	T	1967*			
29	0.05	1	1971			
30	0.02	1	1981			
31						
Monthly	1.12	28	1976*			

OCTOBER MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.27	7	1959			
2	0.02	1	1976			
3	0.07	2	1970			
4	T	T	1966*			
5	0.17	4	1977			
6	0.61	15	1977			
7	0.04	1	1975			
8	0.04	1	1960			
9	0.09	2	1960			
10	0.54	14	1966			
11	0.24	6	1957			
12	0.12	3	1975			
13	0.27	7	1957			
14	0.53	13	1957			
15	0.01		1957			
16	0.19	5	1971			
17	0.24	6	1972			
18	0.23	6	1972			
19	0.10	3	1972			
20	0.37	9	1979			
21	0.27	7	1976			
22	0.07	2	1976			
23	0.03	1	1960*			
24	0.03	1	1978			
25	T	T	1982			
26	0.19	5	1980			
27	0.03	1	1958			
28	0.35	9	1974			
29	0.13	3	1974			
30	0.60	15	1957			
31	0.01		1957			
Monthly	0.61	15	1977			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

IMPERIAL BEACH, CALIFORNIA

1945-1949 1955-1962

STATION

STATION NAME

YEARS

NOVEMBER
MONTH

DECEMBER
MONTH

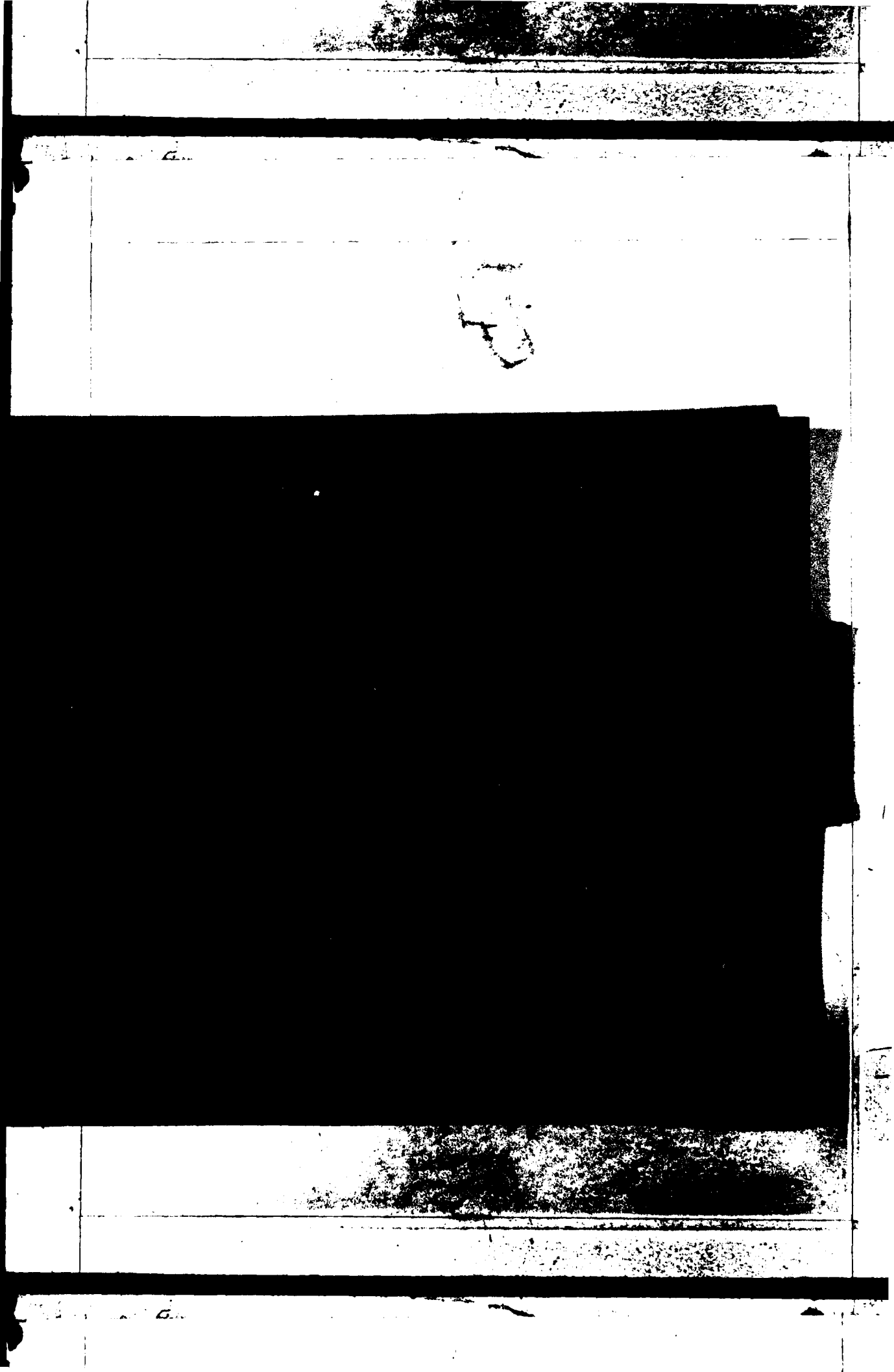
DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.20		7 1974			
2	7.33		8 1957			
3	0.16		4 1960			
4	0.07		2 1979			
5	0.15		4 1960			
6	0.51		13 1969			
7	1.31		33 1966			
8	0.17		4 1972			
9	0.28		7 1964			
10	0.14		4 1958			
11	0.62		16 1972			
12	0.60		20 1976			
13	0.25		6 1960			
14	0.34		9 1965			
15	1.73		44 1965			
16	0.48		25 1965			
17	0.66		17 1964			
18	0.52		13 1965			
19	0.47		12 1967			
20	1.89		48 1963			
21	1.04		27 1967			
22	1.77		45 1965			
23	0.68		17 1965			
24	0.68		17 1978			
25	0.40		10 1961			
26	0.75		19 1967			
27	0.50		13 1975			
28	0.53		13 1975			
29	1.50		38 1970			
30	0.39		10 1982			
31						
Monthly	1.89	48	1963			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.10		3 1978			
2	0.74		19 1961			
3	0.56		14 1966			
4	0.98		25 1972			
5	0.45		22 1966			
6	0.77		20 1966			
7	0.35		9 1972			
8	0.30		8 1972			
9	1.42		36 1965			
10	0.09		2 1972			
11	0.03		1 1968*			
12	0.28		7 1975			
13	0.21		5 1965	T	T	1967
14	0.62		16 1961			
15	0.32		8 1965			
16	0.52		13 1965			
17	1.27		32 1978			
18	1.33		34 1967			
19	0.69		18 1970			
20	0.08		2 1967			
21	0.70		18 1970			
22	0.34		9 1965			
23	0.02		1 1964			
24	0.55		14 1959			
25	0.28		7 1968			
26	0.27		7 1971			
27	0.66		17 1964			
28	0.63		16 1977			
29	0.49		12 1965			
30	0.35		9 1976			
31	0.48		12 1976			
Monthly	1.42	36	1965	T	T	1967

* ALSO ON EARLIER YEARS
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS





NOCD, Federal Building
Asheville, N. C.

PART C

SURFACE WINDS

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

1. Extreme Values - Peak Gusts: 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 90% 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 < 90% 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."

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

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

9315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-46, 48,

55-82
YEARS

DAILY PEAK GUSTS IN KNOTS (MPH 1949-1955)

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45							SSW 20				WNW 18		
46			WNW 40	WSW 30									
47													
48				S 28	W 27		WSW 22	WNW 18					
49													
55													
56	SE 29	S 37	W 24	W 43	W 23	WNW 26	W 20	S 25	W 30	E 23	E 38	W 32	W 43
57	E 39	S 31	W 29	W 32	W 24	W 24	SE 27	NE 21	SSW 30	SE 27	S 46	W 40	E 46
58	E 31	S 39	WSW 36	WSW 48	W 24	WNW 19	WNW 20	SSW 21	SE 22	W 29	NE 51	W 34	W 51
59	SE 48	SE 38	S 36	W 29	W 24	WSW 22	WSW 26	W 26	NE 28	SE 29	SE 37	W 39	SE 48
60	NW 34	NW 34	NW 22	WSW 34	WSW 24	WSW 26	WNW 22	WNW 18	WSW 18	WNW 24	SE 38	SE 35	NW 38
61	SE 34	SE 24	NE 32	W 23	W 21	WSW 22	WSW 26	WSW 24	SE 19	SE 33	SSW 38	W 30	SE 38
62	SE 42	WNW 36	NW 36	WSW 29	WSW 28	W 27		SSW 22	WNW 16	SSW 18	SE 18	W 26	
63	E 32	S 30	W 33	SSW 32	SSW 17	SSW 22	W 17	SE 17	WNW 24	WNW 16	SE 29	SE 34	ESE 34
64	E 27	WSW 39	NW 29	WNW 22	W 22	W 21	W 16	SSW 22	SE 20	SSW 26	SSW 31	W 22	WSW 35
65	ESE 24	SE 22	SE 24	W 29	W 22	W 21	SSW 18	SSW 19	W 21	W 29	W 27	W 32	W 32
66	W 30	W 28	S 33	W 26	WSW 18	W 17	WSW 17	WSW 18	W 17	W 24	S 31	W 25	W 33
67	S 29	W 20	WNW 24	WNW 32	WNW 19	WNW 20	W 19	W 20	W 25	SE 26	SE 30	W 30	NW 32
68	E 30	WSW 34	S 31	W 29	W 23	WNW 20	WSW 18	WNW 17	WSW 21	WNW 20	WNW 28	WNW 29	SW 34
69	S 33	W 23	W 28	W 20	W 20	W 17	WSW 17	WNW 18	W 18	W 21	WNW 33	W 22	S 33
70	E 35	SE 34	W 24	W 23	W 14	WSW 21	W 20	W 16	SE 25	SE 32	SE 35	SE 29	SE 36
71	W 31	W 21	W 21	W 24	W 19	W 21	W 21	W 21	W 21	W 21	W 21	W 21	W 21
72	10	35	37	23	23	24	24	21	21	18	28	37	27
73	28	27	32	29	28	28	28	28	28	28	28	28	28
74	17	40	24	33	21	21	20	17	18	17	25	25	17
75	09	24	19	26	25	24	16	19	22	23	29	31	29
76	11	35	33	37	34	31	21	18	18	19	19	31	29
77	07	29	26	26	19	17	16	16	16	16	16	16	16
78	17	34	18	40	27	19	19	18	18	18	18	18	18
79	10	34	21	30	19	19	19	19	19	19	19	19	19
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

03115 STATION IMPERIAL BEACH, CALIFORNIA 45-46, 48, 55-82 YEARS
STATION NAME YEARS

DAILY PEAK GUSTS IN KNOTS (NPN 1940-1988)

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
40	14 4918	4620	3626	3325	2019	2819	2517	3019	2026	2315	2615	29	14 49
41	14 3029	3628	3327	3222	19		21 2029	1920	2121	21		29 22	
42													
MEAN	33.6	30.6	30.5	28.0	21.9	21.7	19.9	20.6	22.0	25.1	31.7	26.4	38.8
S. D.	6.574	6.707	5.697	6.749	4.157	3.640	3.701	3.630	5.103	6.200	8.050	4.993	6.137
TOTAL OBS.	798	703	833	836	837	748	833	832	769	770	743	740	9636

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

3115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 45-46, 48, 55-82 YEARS

DAILY PEAK GUSTS IN KNOTS (NPH 1940-1988)
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS							
45				0		0		0	0	0		0	WINDS DAYS							
46	0	0			0								WINDS DAYS							
47	0	0	0	0	0		0		0	0	0	0	WINDS DAYS							
48						0							WINDS DAYS							
49	0												WINDS DAYS							
55											0	5	32 10 WINDS DAYS							
62							18 24						WINDS DAYS							
77												10	44 25 WINDS DAYS							
78		16 24	40									26	26 25 WINDS DAYS							
79										31	18	19	18 WINDS DAYS							
81						19	27 26			15	18		WINDS DAYS							
82	25	24 19	16 19	34 15	34 15	18 9	35 25	21 25	17 25	26 6	18 19	28 18	17 7	29 22	17 20	19 22	28 9	41 15	27 15	32 WINDS DAYS
MEAN																				
S. D.																				
TOTAL OBS.																				

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

JAN
MONTH

ALL WEATHER
CLASS

01
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													
NNE		25.0										25.0	4.0
E		25.0										25.0	6.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W				50.0								50.0	12.0
WNW													
NW													
NNW													
VARBL													
CALM												0.0	
		50.0		50.0								100.0	8.5

TOTAL NUMBER OF OBSERVATIONS

4

3MOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION 43115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73 MONTH JAN
 CLASS ALL WEATHER HOUR OF (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													
NNE													
NE													
ENE													
E		40.0	20.0									60.0	5.7
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W			20.0									20.0	10.0
WNW				20.0								20.0	14.0
NW													
NNW													
VARBL												.0	
CALM													
		40.0	40.0	20.0								100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 5

8808



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

43115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-02
YEAR

JAN
MONTH

ALL WEATHER
CLASS

07
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	1.0			.4								1.9	3.8
NNE	1.3	1.5	.7									1.5	3.9
NE	2.6	4.1										6.7	3.9
ENE	3.3	6.3	1.5	.4								11.5	4.8
E	4.1	16.7	15.6	.7	.4	.4						37.9	6.6
ESE	1.9	1.5	1.9	.7								5.9	6.0
SE	1.5	1.9	1.5	.7								5.6	6.3
SSE	.4	.4		.7								1.5	7.5
S		1.1	1.1	.4	.4							3.0	8.9
SSW			.7									.7	7.5
SW	.4		.4	.4								1.1	6.7
WSW		.7	.4	.7								1.9	8.8
W	.7	.7	1.1	1.1								3.7	8.0
WNW	.4	1.1	.4	.7								2.6	7.0
NW	.4	.4	.7									1.5	5.5
NNW	.4	.4										.7	3.5
VARB.													
CALM												8.2	
	20.8	36.8	26.0	7.1	.7	.4						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

269

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

43115

IMPERIAL BEACH, CALIFORNIA

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

10

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	3.2	.7									4.6	5.1
NNE	3.5	2.1										5.6	3.5
NE	1.1	.4										1.4	3.0
NNE	1.4	3.9	.4									6.0	4.2
E	4.9	9.2	7.7	2.5	.7	.4						24.6	7.0
ESE	1.1	2.5	2.5	1.1	.4	.4						7.7	8.5
SE		.7	.7									1.4	6.8
SSE	.4	1.1		1.1	.7							3.2	11.0
S	2.1	2.4	3.5	1.1								9.5	6.8
SSW	1.2	2.5	1.1									5.3	4.9
SW	.4	.7										1.1	3.7
WSW	1.5	2.5	1.4	.7								6.3	5.7
W	2.1	.7	.7	.7								4.2	6.0
WNW	1.4	.7	1.4	.4								3.9	6.3
NW	.7	.7										1.4	3.8
NNW	1.2	.7	.4	.4								3.2	5.1
VARL													
CALM												10.6	
	25.4	34.2	19.7	7.7	1.8	.7						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

284

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JAN
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	.4		.7									1.1	6.3
NNE		.4										.4	4.0
NE													
ENE					.4							.4	20.0
E			1.1			.4						1.4	12.5
ESE		.4		.7	1.4	.4						2.8	16.0
SE		.4		.7								1.1	11.0
SSE	.4	.7	.4	1.1	.4							2.8	10.1
S	.4	.7	2.1	3.9	.4							7.4	11.4
SSW		2.5	6.0									8.5	7.5
SW	1.1	2.9	3.2									7.0	6.1
WSW	1.1	5.3	2.5	1.4								10.2	6.7
W	1.1	12.0	9.2	1.4	.7							25.0	6.8
WNW	1.4	6.7	6.0	1.4								15.5	6.6
NW	1.1	5.3	5.3	.7								12.3	6.7
NNW		2.5	.4	.7								3.5	6.5
VARBL													
CALM												.7	
	7.4	39.4	36.6	12.0	3.2	.7						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

284

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JAN
MONTH

ALL WEATHER
CLASS

16
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	1.0									2.1	8.5
NNE	.4	.4										.7	3.5
NE													
ENE		.4		.4								.7	10.0
E		.4	1.1	.4	.4							2.1	10.5
ESE		.4	1.1		.7							2.1	11.5
SE			.4									.4	8.0
SSE		.4	.7	.7	.4							2.1	12.2
S	.7	1.2	4.3	1.8	.4							8.9	8.9
SSW	.4	2.2	3.6	.4								7.5	6.4
SW	1.4	4.3	2.1	.4								8.2	5.7
WSW	3.2	4.3	.4		.4							8.2	4.6
W	3.0	12.1	3.0	1.1								21.1	5.7
WNW	2.0	2.3	4.6	1.4								18.2	6.1
NW	2.1	5.4	5.4									12.9	5.9
NNW	1.1	2.1	.4									3.6	4.3
VARBL													
CALM												1.1	
	16.1	44.9	29.6	6.4	2.1							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

280

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

3116 IMPERIAL BEACH, CALIFORNIA 73-92 JAN
STATION MONTH
ALL WEATHER 19
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	1.0	1.3		.9								5.0	4.6
NNE	1.0	.4										1.7	2.8
NE	.0	1.3										2.1	3.0
ENE	1.3	.7										2.1	3.4
E	1.0	1.7	2.1	1.3								8.2	6.1
ESE	2.1	.0	1.3									4.7	4.7
SE	1.7	.0		.4								3.0	4.9
SSE	1.0	.4	2.1		.9							4.7	6.1
S	2.6	1.3	.0	1.3	.4							6.4	6.7
SSW	1.0	1.3										4.3	2.9
SW	.4	1.3	.0									2.1	5.2
WSW	1.7	1.7	.0		.4							4.7	6.2
W	1.3	.0	.0	1.3								4.3	7.4
WNW	2.6		.0	.9								4.3	5.8
NW	2.1	2.1	.4									4.7	3.8
NNW	2.6	3.0										5.6	3.8
VARBL													
CALM												72.7	
	30.5	19.3	10.3	6.0	1.7							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 273

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

7115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-74,78,80-82 YEARS
 ALL WEATHER CLASS
 JAN NORTH
 22 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		1.0	1.0									3.8	6.8
NNE		1.0										1.9	4.5
NE	2.5	.9										3.0	3.3
ENE	1.0	1.0										3.8	3.5
E	5.5	4.4	1.0	.9								20.4	4.5
ESE	1.0											1.9	2.5
SE		6.6			.9							7.5	6.9
SSE	.9	.9	2.6									4.7	5.0
S	.9	1.0	2.6	1.9	1.9							9.4	10.2
SSW	1.0	.9										2.4	3.3
SW	.9			.9								1.9	9.0
WSW													
W	.9			1.0								2.9	8.7
WNW			.9									.9	9.0
NW			.9									.9	8.0
NNW	1.0											1.9	2.5
VARBL													
CALM												31.1	
	22.6	26.4	11.3	5.7	2.8							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 106

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
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	1.0	1.0	.0	.2								2.7	5.6
NNE	1.5	1.0	.1									2.7	3.6
NE	1.0	1.1										2.1	3.5
ENE	1.7	2.3	.3	.1	.1							4.2	4.8
E	2.9	6.1	5.2	1.0	.3	.2						15.5	6.7
ESE	1.0	1.0	1.2	.5	.5	.1						4.4	8.3
SE	.5	1.2	.5	.3	.1							2.6	6.6
SSE	.5	.6	.8	.7	.4							2.9	9.3
S	1.1	1.1	2.5	1.7	.4							7.2	8.6
SSW	1.0	1.8	2.2	.1								5.1	5.9
SW	.8	1.7	1.2	.2								3.9	5.9
WSW	1.4	2.7	1.0	.5	.1							5.8	6.0
W	1.0	5.1	3.1	1.3	.1							11.5	6.6
WNW	1.5	3.4	2.6	1.0								8.5	6.4
NW	1.2	2.5	2.3	.1								6.2	5.9
NNW	1.2	1.6	.7	.2								3.1	4.7
VARBL													
CALM												11.3	
	19.7	34.8	24.0	7.9	2.0	.3						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1465

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

FEB
MONTH

ALL WEATHER
CLASS

06
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													
NNE													
NE													
ENE													
E			100.0									100.0	8.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												.0	
			100.0									100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

1

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

5315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

FEB
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.2											.9	2.0
NNE	4.1	2.5										6.6	3.5
NE	4.0	2.1	.8									7.8	3.6
NNE	3.7	9.1	2.5									15.2	5.0
E	5.3	18.5	11.9	1.2								37.7	6.0
ESE	.4	2.1	1.2									3.7	5.4
SE	.2	1.2	.5	.8								3.7	7.0
SSE	.4	.4	.4	.8								2.1	7.6
S	1.2	.4	1.2	.8								4.1	6.6
SSW	.4	.4	.4									1.2	5.0
SW	.4	.4	.4									1.2	4.3
WSW		.3	.4									1.2	7.0
W		2.1	.9	.4								3.3	6.6
WNW	.4	.4	2.1									2.9	6.4
NW	.2											.8	3.0
NNW		.2										.8	5.0
VARBL													
CALM												7.4	
	23.9	41.6	23.0	4.1								100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

243

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

10
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	4.4	1.9	.8									7.3	3.4
NNE	3.4	2.7	.4									6.5	3.4
NE	1.5	2.3										3.8	3.8
ENE	2.3	2.3	.8									5.4	4.3
E	3.4	7.7	1.9	1.1	.4							14.6	5.8
ESE	1.1	3.1	.4	1.9	.8							7.3	8.2
SE	.4		1.1									1.5	6.8
SSE	.4	.4	.8	.4	.4							2.3	9.8
S	.4	1.1	1.9	1.9	.4							5.7	9.4
SSW	.8	1.5	1.9	.4								4.6	6.3
SW	.8	3.1	.4									4.2	4.7
WSW	1.1	1.9	.4									3.8	4.8
W	2.3	4.2	.8	.4								7.7	4.9
WNW	2.3	3.4	1.9									7.7	5.0
NW	1.5	1.9	.8	.4								4.6	5.2
NNW	1.9	2.3	.4	.4								5.4	5.1
VARBL													
CALM												7.7	
	28.4	39.8	15.3	6.9	1.9							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

261

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

FEB
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			.5									.8	9.0
NNE		.8										.8	5.0
NE													
ENE													
E		.9		.4								1.1	7.7
ESE		.4		1.1	.8							2.3	14.3
SE	.4											.4	2.0
SSE		.4	.2	.8		.4						2.3	12.3
S		1.5	3.4	2.7								7.7	9.7
SSW		1.9	2.3	1.5								5.7	8.4
SW		1.1	2.3	.8	.4							4.6	9.2
WSW	1.1	5.7	4.2	.4								11.5	6.4
W	.8	11.1	14.9	2.3								29.1	7.2
WNW		5.0	15.7	1.5								22.2	7.9
NW	.4	1.9	4.6	1.5								8.4	8.1
NNW		.8	1.5	.4								2.7	8.3
VARBL													
CALM												.4	
	2.7	31.4	50.6	13.4	1.1	.4						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

261

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-82 YEARS FEB MONTH 16 HOURS (L.S.T.)

ALL WEATHER CLASS

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		1.2	.8								2.0	8.6
NNE			.8									.8	8.5
NE		.4										.4	4.0
ENE													
E		.4		.4								.8	9.5
ESE				.4								.4	14.0
SE		.4	.4	.4	.4							1.6	11.5
SSE			.4	.8	.4							1.6	14.0
S	.4	2.0	3.5	2.3								8.2	8.8
SSW	.8	1.5	1.2									3.5	5.6
SW	.8	5.1	.8	.4								7.0	5.6
WSW	2.7	5.1	2.3	.4								10.5	5.3
W	2.0	10.2	9.0	1.6								22.7	6.6
WNW	2.3	5.3	12.9	1.2								22.7	7.1
NW	.8	4.7	5.9	.8								12.1	7.0
NNW	.4	.8	3.5	.4								5.1	7.4
VARBL													
CALM												.8	
	10.5	36.7	41.8	9.4	.8							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 256

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

9715
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

FEB
MONTH

ALL WEATHER
CLASS

19
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										2.8	3.3
NNE			.5									.5	7.0
NE	.5	.5										.9	3.0
ENE	.5	.5	.5									1.4	5.0
E	1.4	.5		.5								2.3	4.6
ESE	.5	1.4	.9		.5							3.3	7.7
SE			.9	.5								1.4	4.7
SSE	1.4	.5	.5	.5	.5	.5						3.7	9.3
S	3.3	2.8	1.9	.5	.5							8.8	5.7
SSW	.9	1.4	.9	.5								3.7	6.9
SW	1.9	.5		.9								3.3	6.1
WSW	.5	.9	.5									1.9	4.8
W	5.1	1.4										6.5	2.9
WW	.9	3.3	2.3									6.5	5.8
NW	7.0	7.0	2.3									16.3	4.1
NNW	1.9	2.8	.5									5.1	4.1
VARB													
CALM												31.6	
	27.0	24.7	11.6	3.3	1.4	.5						100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

215

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74, 78, 80-82
YEARS

FEB
MONTH

ALL WEATHER
CLASS

22
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	4.2										6.3	3.8
NNE	1.1											1.1	2.0
NE	1.1	1.1										2.1	4.0
ENE	1.1	3.2										4.2	4.8
E	4.2	11.6	2.1	1.1								18.9	5.2
ESE	1.1			1.1								2.1	7.0
SE	3.2		2.1	1.1								6.3	6.7
SSE	2.1	2.1										4.2	3.3
S	2.1	2.1		3.2	1.1							8.4	9.1
SSW					1.1							1.1	20.0
SW	2.1			1.1								3.2	5.7
WSW													
W			1.1	1.1								2.1	9.5
WNW	2.1			1.1								3.2	5.7
NW		1.1										1.1	4.0
NNW	1.1		1.1									2.1	6.0
VARBL													
CALM												33.7	
	21.2	25.3	6.3	9.5	2.1							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

95

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

FEB
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	1.2	.9	.5	.1								3.0	4.3
NNE	1.5	1.1	.3									2.9	3.8
NE	1.4	1.1	.2									2.6	3.6
ENE	1.3	2.4	.7									4.4	4.9
E	2.2	5.0	2.8	.8	.1							11.8	5.9
ESE	.5	1.3	.5	.8	.4							3.3	8.5
SE	.7	.3	.2	.4	.1							2.0	7.7
SSE	.5	.5	.5	.6	.2	.2						2.5	9.5
S	1.1	1.7	2.3	1.8	.2							7.0	8.2
SSW	.2	1.3	1.3	.5	.1							3.6	7.1
SW	.0	2.0	.8	.5	.1							4.1	6.2
WSW	1.1	2.8	1.6	.2								5.6	5.7
W	1.2	5.6	5.0	1.0								13.4	6.4
WNW	1.3	3.5	6.7	.6								12.7	6.9
NW	1.8	2.9	2.6	.5								7.7	6.0
NNW	.2	1.4	1.3	.2								3.7	6.0
VARB													
CALM												10.6	
	18.1	39.4	27.6	7.7	1.1	.2						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1332

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

9315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

MAR
MONTH

ALL WEATHER
CLASS

07
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	1.1	.4									1.8	5.4
NNE	2.5	1.1										3.6	2.9
NE	2.5	2.5										5.1	3.8
ENE	2.5	4.7	1.1		.4							9.7	5.2
E	5.1	16.4	13.1	.7								35.3	5.8
ESE	1.8	4.7	2.2	1.5								9.5	6.5
SE	1.8	1.1	.4									2.9	4.0
SSE	1.8	.7	.7	.4								3.6	5.4
S	.7	1.1	2.2		.4							4.4	7.3
SSW	.4	1.5	1.1									2.9	6.1
SW	.4	.4	.7									1.5	6.5
WSW	1.8	1.1	2.2									4.7	5.8
W	.4	1.8	1.8	1.1								5.1	7.4
WNW		1.1	.7	.4	.4							2.5	9.6
NW		.7										.7	5.5
NNW	.7	.4										1.1	3.3
VARBL													
CALM												6.5	
	22.2	39.6	26.5	4.0	1.1							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

275

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION: IMPERIAL BEACH, CALIFORNIA YEARS: 73-82 MONTH: MAG

CLASS: ALL WEATHER HOUR (L.S.T.): 10

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	1.0	.7										1.7	3.8
NNE	.3	.7										1.0	3.7
NE	.7											.7	2.0
NNE	.7		.3									1.0	4.0
E	1.0	1.0	.7	.7								3.4	6.4
ESE	.3	.3	.7	.3	.3							2.1	4.5
SE	.3	.3										.7	3.5
SSE	.7	.3	.7	.3	.3	.3						2.4	11.1
S	.7	2.1	3.1	4.5								10.3	9.4
SSW	.7	3.8	3.8	1.7								9.9	7.6
SW	.7	4.8	3.1	.3								8.9	5.8
WSW	1.4	4.5	2.4	1.4								9.0	6.5
W	2.7	9.9	4.5	1.4		.3						18.8	6.3
WNW	.3	8.2	2.7		.3							11.5	6.3
NW	.3	5.5	2.4	.3								8.6	6.3
NNW	.7	4.8	1.7									7.2	6.0
VARBL													
CALM												2.1	
	12.3	46.0	26.0	11.0	1.0	.7						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 292

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION
03115

STATION NAME
IMPERIAL BEACH, CALIFORNIA

YEARS
73-92

MONTH
MAR

CLASS
ALL WEATHER

HOURS (L.S.T.)
13

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					.3							.7	20.0
ESE													
SE			.7									.3	8.0
SSE				.3		.7						1.0	21.3
S	.3	1.0	2.1	4.1	.3							7.9	10.9
SSW	.3	.7	3.8	2.7								7.5	9.5
SW		1.7	5.1	1.4	.3							8.5	8.9
WSW	.3	4.5	7.5	2.1								14.4	8.2
W	1.0	5.0	10.9	7.5	.3							34.0	8.8
WNW		.7	10.3	5.5								16.4	9.6
NW		.7	3.4	3.1								7.2	9.6
NNW		.3	1.4									1.7	8.4
VARBL													
CALM												.7	
	2.1	15.4	53.8	26.7	1.4	.7						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

292

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION: 0315 IMPERIAL BEACH, CALIFORNIA STATION NAME: 73-32 YEARS: 14 NORTH: 14
CLASS: ALL WEATHER
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	.4	.4									1.1	4.7
NNE													
NE													
ENE		.4										.4	5.7
E				.4								.4	16.7
ESE													
SE				.4								.4	12.0
SSE		.4		.7								1.1	12.0
S		.4	2.5	1.4	1.1							5.3	11.3
SSW		2.1	4.2	1.8								8.1	8.7
SW	.4	2.2	4.6									8.1	6.8
WSW	.7	2.9	6.7	1.1								11.7	7.4
W	1.5	2.4	2.5	2.1	.7							12.5	7.8
WNW		1.3	2.8	3.2	.4							17.7	8.3
NW	.4	1.1	6.7	1.8								9.7	9.7
NNW		.7	2.1	.4								3.2	7.8
VARBL													
CALM												.4	
	7.5	25.1	55.8	13.1	2.1							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 283

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 1215 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-72 MONTH MAY
 CLASS ALL WEATHER HOURS (L.S.T.) 19
 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	.0	1.0										2.4	4.3
NNE	.4											.4	2.0
NE	.4											.4	2.0
ENE	.4											.4	2.0
E	.0		.4									1.2	4.0
ESE	.0	.4			.4							1.6	6.0
SE	.4	.4										.8	4.0
SSE	.0	1.2		.4								2.4	5.0
S	4.0	2.8	1.2	.8								8.9	5.2
SSW	2.0	1.6	2.8	.4								6.9	5.7
SW	2.0	1.2	.4									4.0	4.2
WSW	1.2	2.8	.4	1.2								5.6	6.1
W	6.9	5.2	4.0	1.2	2.0							21.4	6.0
WNW	3.2	7.7	1.2	.8								12.9	4.6
NW	3.6	5.6	2.0									11.3	4.8
NNW	1.2	2.0	.4	.4								4.0	5.2
VARBL													
CALM												14.5	
	31.0	33.5	13.3	5.2	2.4							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 248

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

07114
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74, 78-82
YEARS

MAR
MONTH

ALL WEATHER
CLASS

22
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	3.0											3.0	2.2
NNE	2.3	.3										3.1	3.0
NE	.5											.5	2.0
ENE	1.5	2.3										3.8	3.4
E	0.1	3.1	.8	1.5								11.5	4.7
ESE	1.5	1.5										3.1	3.8
SE	2.3	.8										3.1	2.8
SSE	2.3	1.5										3.8	3.0
S	1.5	.5	.8	1.5								4.0	7.7
SSW	.5	1.5	1.5									3.8	5.8
SW		3.4	.8	.8								5.3	6.1
WSW	.5	3.0	1.5	.8								6.9	5.9
W	1.5	2.3	.8	2.3								6.9	8.1
WNW	3.1	2.3	1.5									6.9	4.6
NW	.5	2.3										3.1	4.8
NNW	1.5		.5									2.3	4.0
VARBL													
CALM												27.5	
	30.5	26.7	8.4	6.9								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

131

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 07115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH MAO
 CLASS ALL WEATHER HOUR (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 - 53	≥ 56	%	MEAN WIND SPEED
N	.9	.7	.1									1.6	4.0
NNE	.9	.4										1.2	3.0
NE	.7	.5										1.2	3.4
ENE	.8	1.1	.3		.1							2.2	4.7
E	1.8	3.4	2.6	.5	.1							8.2	5.9
ESE	.7	1.2	.5	.3	.1							2.6	6.8
SE	.6	.4	.1	.1								1.2	4.3
SSE	.7	.4	.3	.4	.1	.2						2.2	8.1
S	1.1	1.4	2.1	2.2	.3							7.1	8.7
SSW	.7	1.9	3.0	1.2								6.8	7.7
SW	.5	2.4	2.8	.4	.1							6.2	6.8
WSW	1.7	3.4	3.6	1.1								9.1	7.1
W	2.7	5.8	9.5	2.7	.5	.1						21.3	7.5
WNW	.9	4.3	4.5	1.8	.2							11.8	7.5
NW	.8	2.6	2.7	1.0								7.1	7.2
NNW	.9	1.6	1.1	.1								3.5	6.1
VARBL													
CALM												6.4	
	15.1	31.6	33.4	11.8	1.4	.3						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 1521

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

0315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

74
YEARS

APR
MONTH

ALL WEATHER
CLASS

01
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	33.3											33.3	2.0
NE													
ENE													
E	33.3											33.3	3.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												33.3	
	66.7											100.0	1.7

TOTAL NUMBER OF OBSERVATIONS

3

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION: 9315 STATION NAME: IMPERIAL BEACH, CALIFORNIA YEARS: 74 APP:
STATION STATION NAME YEARS MONTH
 CLASS: ALL WEATHER HOURS (L.S.T.): 04
CLASS HOURS (L.S.T.)
 CONDITION: _____
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		100.0										100.0	4.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												0.0	
		100.0										100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

9715
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APC
MONTH

ALL WEATHER
CLASS

07
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										1.5	4.0
NNE	7.2	.4										2.6	3.0
NE	1.1	3.0										4.1	4.1
ENE	3.0	2.6	1.5									7.4	4.3
E	6.7	16.3	8.1	.4	.4							31.9	5.7
ESE	3.0	3.0	1.9									7.8	4.7
SE	.7		.4									1.1	4.7
SSE	.7	1.1	.4									2.2	4.2
S	2.2	.4										2.6	2.7
SSW	1.5	1.5	.7									3.7	4.6
SW	1.1	1.9	.4									3.3	4.4
WSW	1.5	.4	.7		.7							3.3	7.0
W	1.1	2.6	3.7	.4								7.8	7.0
WNW	1.5	2.2	1.5									5.2	5.3
NW	.4	1.1	.7	.4								2.6	6.6
NNW	.4			.4								.7	8.5
VARBL													
CALM												12.2	
	27.8	37.0	20.4	2.2	.4							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

270

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

97115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APP
MONTH

ALL WEATHER
CLASS

10
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		.4									.7	5.5
NNE	.4											.4	2.0
NE													
ENE		.4										.4	4.0
E		.4		.4								.7	9.5
ESE													
SE		.4										.4	6.0
SSE					.4							.4	20.0
S		.4	1.4	1.4	.4							3.9	10.7
SSW	.7	3.9	4.6	1.4								10.7	7.3
SW	.4	2.4	6.4	.4								10.0	7.3
WSW	1.4	2.2	4.3	.7								14.6	6.2
W	.7	14.6	11.4	1.1								27.8	6.6
WNW	1.4	9.6	9.3									20.6	6.4
NW	2.1	2.4	1.8	1.1								7.8	6.4
NNW	.7		.4									1.1	4.3
VARB													
CALM												.7	
	8.5	43.4	40.2	6.4	.7							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

281

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 53115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 APP MONTH APR
 CLASS ALL WEATHER HOURS (L.S.T.) 13
 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				.4								.4	16.0
NNE													
E													
ESE													
SE													
SSE					.4							.4	20.0
S		.4	.7	2.1	.4							3.6	11.7
SSW	.4		6.0	1.4								7.8	9.0
SW	.4	.4	7.5	1.1								9.3	8.3
WSW		4.3	12.5	3.2								19.9	8.3
W	.4	7.1	19.2	5.3								32.0	8.3
WNW		2.8	13.9	5.0								21.7	9.1
NW		.4	3.2	1.4								5.0	10.1
NHW													
VARB													
CALM												.0	
	1.1	15.3	63.0	19.9	.7							100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 281

8MOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

16
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				.4								.4	15.0
NE													
ENE													
E													
ESE			.4									.4	9.0
SE													
SSE				.4								.4	15.0
S	.4		1.1	1.5	.4							3.3	10.4
SSW		1.5	4.8									6.3	7.6
SW	.4	2.2	4.5	.4								7.4	7.2
WSW	.4	6.3	8.2									14.9	6.6
W	.7	13.0	19.7	2.6								36.1	7.2
WNW	.7	4.8	13.8	3.0								22.3	8.2
NW		.4	5.6	1.5								7.4	9.3
NNW		.4		.4								.7	8.0
VARBL													
CALM												.4	
	2.6	28.6	58.0	10.0	.4							100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

269

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

19
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									.4	7.0
NNE													
NE													
ENE													
E		.2										.3	5.0
ESE													
SE				.4								.4	11.0
SSE	.4											.4	2.0
S	.8	2.0	2.0	.8								5.7	6.7
SSW	2.4	2.4	2.0									6.9	4.6
SW	3.7	3.3	1.6									8.5	4.3
WSW	4.1	3.7	1.6	.4								9.8	4.6
W	10.2	8.5	2.8	.8	.4							22.8	4.6
WNW	6.9	6.9	3.3									17.1	4.5
NW	2.4	7.3	3.7									13.4	5.4
NNW	.8	1.6	.4									2.8	4.4
VARBL													
CALM												11.0	
	31.7	36.6	17.9	2.4	.4							100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

246

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

17115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74, 78-82
YEARS

APR
MONTH

ALL WEATHER
CLASS

22
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	.7										2.1	3.0
NNE	.7											.7	2.0
NE													
ENE	2.9											2.9	3.0
E	1.4	2.9										4.3	3.8
ESE	2.1	2.1										4.3	3.3
SE	1.4	.7										2.1	3.3
SSE	3.6	2.9										6.4	3.6
S	5.0	2.9	2.1									10.0	4.2
SSW		.7										.7	6.0
SW	2.9	.7										3.6	2.6
WSW	1.4	2.1	.7									4.3	4.7
W	5.0	5.7	2.9	.7								14.3	5.2
WNW	4.3	3.6	1.4									9.3	4.3
NW	5.7											5.7	2.4
NNW	.7	1.4										2.1	3.7
VARBL													
CALM												27.1	
	30.6	26.4	7.1	.7								100.0	2.9

TOTAL NUMBER OF OBSERVATIONS

147

SMOS



4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

07115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APT
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

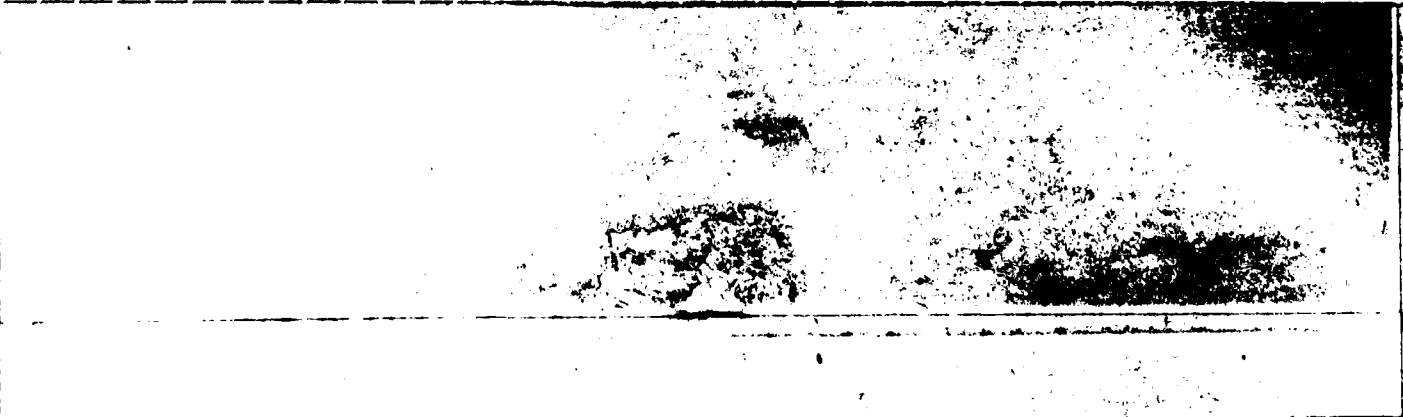
CONDITION

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	.7	.2	.1									.7	4.3
NNE	.4	.1		.1								.7	3.8
NE	.2	.5		.1								.7	5.1
ENE	.1	.4	.3									1.7	4.1
E	1.4	3.5	1.5	.1	.1							6.6	5.6
ESE	.7	.7	.4									1.7	4.6
SE	.3	.1	.1	.1								.5	5.1
SSE	.5	.5	.1	.1	.1							1.3	5.0
S	1.1	.8	1.2	1.1	.2							4.4	7.7
SSW	.9	1.7	3.4	.5								6.5	7.0
SW	1.3	1.9	3.8	.3								7.3	6.5
WSW	1.4	4.4	5.1	.9								11.8	6.7
W	2.7	8.9	17.7	1.9	.1							24.3	6.8
WNW	2.3	5.1	7.8	1.5								16.6	7.0
NW	1.4	2.1	2.7	.8								7.0	6.8
NNW	.4	.5	.1	.1								1.1	5.2
VARBL													
CALM												6.8	
	1.3	31.5	37.2	7.6	.5							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

1421

SMOS



4

2400-442
1225

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

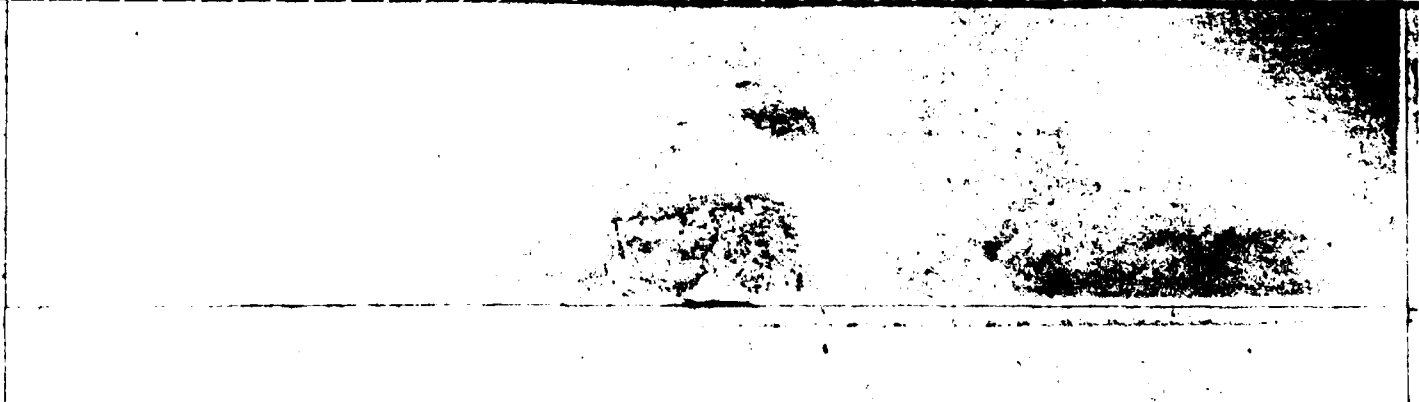
SURFACE WINDS

STATION: 47115 STATION NAME: IMPERIAL BEACH, CALIFORNIA YEARS: 74 MONTH: MAY
 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													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW	50.0											50.0	3.0
WSW													
W	50.0											50.0	3.0
WNW													
NW													
NNW													
VARBL													
CALM													
	100.0											100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: 2

SMOS



4

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION 0118 STATION NAME IMPE IAL BEACH, CALIFORNIA YEARS 73-74 MONTH MAY

CLASS ALL WEATHER NORTH 04

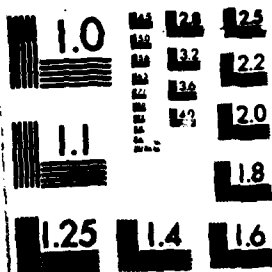
CONDITION _____ HOURS (L.S.T.) _____

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	50.0											50.0	3.0
SW	50.0											50.0	1.0
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												0	
	100.0											100.0	2.0

TOTAL NUMBER OF OBSERVATIONS _____

SMOS





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPEIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

MAY
MONTH

ALL WEATHER
CLASS

07
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										1.8	2.8
NNE	.7	.7										1.4	3.3
NE	1.8	.4										2.2	3.2
NNE	2.2	2.5	.4									5.0	3.7
E	1.8	6.8	2.5									11.2	5.0
ESE	1.8	1.8	.7									4.3	4.3
SE	.7	1.1										1.8	3.6
ESE	1.1	1.4	.4									2.9	4.0
S	4.0	5.0	1.4	.7								11.2	4.8
SSW	3.6	4.7	.4	.4								9.0	4.3
SW	2.9	2.2	1.4									6.5	4.5
WSW	2.9	1.8	1.4	.4								6.5	5.3
W	4.3	3.6	2.2	.4								10.4	4.7
WNW	2.9	4.0	.4	.4								7.6	4.4
NW	1.4	2.5										4.0	3.9
NNW	.4	1.1										1.4	3.8
VARB													
CALM												12.9	
	33.5	40.3	11.2	2.2								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

278

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

MAY
MONTH

ALL WEATHER
CLASS

10
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		1.1	1.8	1.0		.4						9.0	10.7
SSW	.4	1.1	7.2	1.1								9.7	8.3
SW	.4	5.0	9.4	.7								18.5	7.4
WSW	.4	9.4	10.4	1.0								21.9	7.2
W	.7	12.2	15.5	2.2								30.6	6.8
WWW	.7	2.9	8.3	1.1								12.9	7.8
NW		1.9	1.1	.4								3.2	6.6
NNW		.7	.4									1.1	6.3
VARBL													
CALM												.0	
	2.5	34.2	54.0	9.0		.4						100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

278

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

MAY
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													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE				.4								.4	16.0
S			.7	1.1								1.8	10.8
SSW		.7	8.6	1.8								11.2	8.9
SW		2.2	10.1	2.9								15.1	9.0
WSW	.4	9.3	19.1	2.2	.4							22.3	8.9
W	.4	5.0	23.7	6.1								35.3	8.7
WWW		1.1	6.9	3.2								10.8	9.3
NW			.7	2.9								3.2	11.9
NNW													
VARB													
CALM												.0	
	.7	13.3	63.5	20.1	.4							100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

278

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

MAY
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

DESCRIPTION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S			.4	.4								.8	10.0
SSW	.4	2.9	6.2	2.5								12.0	8.5
SW	.4	5.4	8.3	.4								14.5	6.9
WSW		10.3	12.0	1.2								23.6	7.1
W	.4	10.3	19.0	.4								30.2	7.3
WW		4.5	9.5	1.2								15.3	8.0
NW		.4	1.7	.4								2.5	8.8
NNW			.4	.4								.8	12.0
VARIABLE													
CALM												.4	
	1.2	33.9	57.8	7.0								100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

242

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

MAY
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

DESCRIPTION

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											.4	2.0
NNE													
NE	.4											.4	3.0
NNE													
E													
ESE													
SE	.4											.4	2.0
ESE													
S	1.3	2.6	1.7									5.6	5.4
SSW	3.5	4.8	1.3									9.5	4.3
SW	3.9	7.4	.9									12.1	4.3
WSW	5.2	5.2	2.6	.4								13.4	4.8
W	7.8	14.7	3.5									26.0	4.7
WNW	5.2	9.1	1.7	.4								16.5	4.6
NW	2.2	4.3	2.6									9.1	5.5
NNW		1.3										1.3	5.0
VARB.													
CALM												5.2	
	10.3	42.4	14.3	.9								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

231

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74.78-82
YEARS

MAY
MONTH

ALL WEATHER
CLASS

22

DAYS (L.O.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													
NNE	.7											.7	3.0
E		.7										.7	5.0
ESE													
SE	.7	.7										1.5	3.0
SSE		2.2										2.2	5.0
S	6.7	3.7	.7									11.1	3.4
SSW	5.2	4.4	.7									10.4	3.6
SW	3.7	2.2	.7									6.7	3.9
WSW	4.4	3.0										7.4	3.5
W	10.4	3.0	3.0	.7								17.0	4.3
WNW	4.4	4.4										8.9	3.8
NW	4.4	2.2										6.7	2.9
NNW	2.2											2.2	2.7
VARBL													
CALM												24.4	
	43.0	26.7	5.2	.7								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

175

8806

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

9315 IMPERIAL BEACH, CALIFORNIA 73-82 MAY
STATION STATION NAME YEAR MONTH
ALL WEATHER ALL
CLASS HOUR (L.S.T.)
CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.3	.1										.4	2.7
NNE	.1	.1										.3	3.3
NE	.4	.1										.5	3.1
ENE	.5	.5	.1									1.0	3.7
E	.3	1.4	.5									2.2	5.0
ESE	.3	.3	.1									.8	4.3
SE	.3	.3										.6	3.3
SSE	.2	.3	.1	.1								.8	5.3
S	1.6	1.9	1.2	.8		.1						5.5	6.2
SSW	1.9	2.9	4.4	1.0								10.3	6.7
SW	1.8	4.1	5.6	.8								12.2	6.7
WSW	1.9	5.8	7.6	1.1	.1							16.5	6.9
W	3.4	8.4	12.0	1.8								25.5	6.7
WNW	1.9	4.1	4.8	1.2								12.0	6.7
NW	1.0	1.8	1.0	.6								4.5	6.2
NNW	.3	.6	.1	.1								1.0	5.4
VARBL													
CALM												5.7	
	16.4	32.9	37.5	7.4	.1	.1						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 1446

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

9315 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-82 YEARS JUN MONTH
ALL WEATHER CLASS 07 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	3.2	1.1	.4									4.6	2.9
NNE	1.9	2.1	.4									4.2	3.8
NE	1.4	.7										2.1	3.2
NNE	1.9	.4										2.1	2.5
E	3.2	1.4										4.6	3.0
ESE	1.1	.4										1.4	2.3
SE	1.4	.7										2.1	2.4
SSE	1.1	1.1										2.1	3.3
S	1.9	5.3	.4	.4								7.8	4.7
SSW	1.4	3.2	1.4									6.0	5.2
SW	2.9	3.9	.4									7.1	3.9
WSW	2.5	1.8										4.2	3.4
W	6.0	4.6	1.1									11.7	3.9
WNW	4.2	2.8	.7									7.8	3.8
NW	3.2	5.3	.7									9.2	3.8
NNW	2.1	2.5	.7									5.3	4.1
VARB													
CALM												17.7	
	38.9	37.1	6.0	.4								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 283

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

10
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										.4	6.0
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S		1.1	.7	1.1	.4							3.2	10.1
SSW		2.5	7.4	.7	.4							11.0	8.2
SW	.4	3.5	8.1	.4								12.4	7.3
WSW	.4	7.8	6.4	.7								15.2	6.6
W	.4	17.0	17.7	1.1								36.0	6.9
WNW	.7	4.6	10.2	1.1								16.6	7.4
NW		1.8	1.8	.4								3.9	7.4
NNW	.4		.4									.7	5.5
VARB.													
CALM												.7	
	2.1	38.5	52.7	5.3	.7							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

283

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

23115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-82 YEARS JUN 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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S			1.8	1.1								2.8	10.6
SSW	.4	1.8	4.6	1.1	1.1							8.9	9.4
SW		3.5	8.9	1.8								14.2	8.1
WSW		5.3	13.5	1.8								20.6	7.9
W		5.0	26.2	5.3								36.5	8.7
WW		2.1	7.8	9.7								15.6	9.5
WNW			.7	.4								1.1	10.3
NW			.4									.4	10.0
NNW													
VARBL													
CALM												.0	
	.4	17.7	63.8	17.0	1.1							100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 282

8808



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

97115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUN
MONTH

ALL WEATHER
CLASS

16
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		.8	.4	1.2								2.4	10.3
SSW		2.4	6.5	.4								9.3	7.5
SW	1.2	6.0	2.8									10.1	6.0
WSW		12.1	10.1									22.2	6.5
W	.8	14.9	20.2	1.2								37.1	7.1
WNW		2.8	12.1	2.0								16.9	8.3
NW		.8	1.2									2.0	7.0
NNW													
VARBL													
CALM												.2	
	2.0	30.9	53.2	4.8								100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

248

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

JUN
MONTH

ALL WEATHER
CLASS

19
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													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE		.4										.4	6.0
S	.4	2.9		.8								4.2	6.1
SSW	2.5	5.5	.4									8.4	4.6
SW	5.0	6.7	.4									12.2	3.7
WSW	5.0	7.1	.8									13.0	4.2
W	11.8	13.9	3.4									29.0	4.1
WNW	1.3	12.2	3.4									16.6	5.3
NW	2.1	3.8	2.5									8.4	5.0
NNW	.4	.8										1.3	4.3
VARB.													
CALM												6.3	
	26.6	53.4	10.9	.8								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

238

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION 0115 IMPERIAL BEACH, CALIFORNIA STATION NAME 73, 77-82 YEARS
 CLASS ALL WEATHER MONTH JUN
 HOURS (L.S.T.) 22
 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	.6											.6	3.0
ESE	.5											.6	3.0
SE			.5									.6	9.0
SSE	.6											.6	2.0
S	2.2	5.7	1.3									10.2	4.4
SSW	3.8	1.3	.6									5.7	3.6
SW	3.2											3.2	2.4
WSW	1.9	1.3	.6									3.8	3.8
W	9.9	4.5										13.4	3.2
WNW	5.1	8.9	.6									14.6	3.9
NW	5.1	3.2										8.3	3.2
NNW	1.9	1.9										3.8	3.8
VARBL													
CALM												34.4	
	35.0	26.8	3.8									100.0	2.4

TOTAL NUMBER OF OBSERVATIONS 157

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-82 YEARS JUN MONTH
ALL WEATHER CLASS ALL 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	.6	.3	.1									.9	3.1
NNE	.3	.4	.1									.8	3.8
NE	.3	.1										.4	3.2
ENE	.7	.1										.4	2.5
E	.7	.3										.9	3.0
ESE	.3	.1										.3	2.4
SE	.3	.1	.1									.5	3.7
SSE	.3	.3										.5	3.5
S	.7	2.4	.7	.8	.1							4.8	6.7
SSW	1.1	2.8	3.8	.4	.3							6.4	7.0
SW	1.9	4.2	3.8	.4								10.3	6.0
WSW	1.5	6.1	5.6	.5								13.7	6.3
W	4.2	10.2	12.4	1.4								28.2	6.5
WNW	1.7	5.2	6.2	1.6								14.6	6.9
NW	1.5	2.4	1.2	.1								5.2	5.0
NNW	.7	.8	.3									1.9	4.4
VARBL													
CALM												6.1	
	16.4	35.7	34.2	5.2	.3							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 1491

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEAR

JUL
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

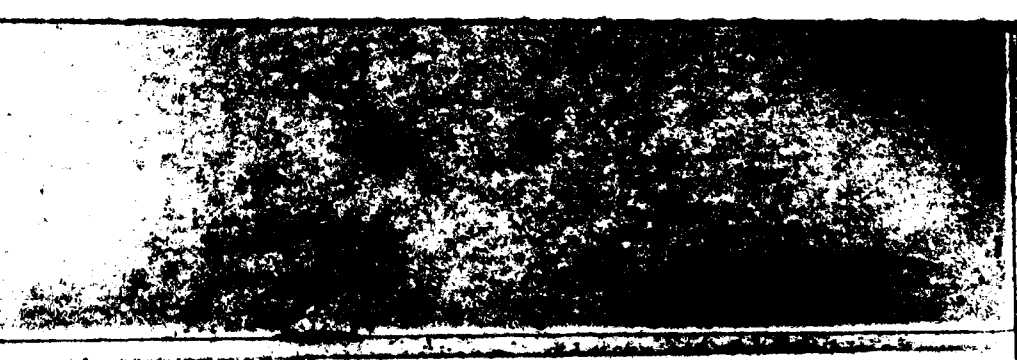
CONDITION

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												100.0	
												100.0	.0

TOTAL NUMBER OF OBSERVATIONS

1

8808



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

JUL
MONTH

ALL WEATHER
CLASS

07
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	2.5
NNE	2.8											2.8	2.4
NE	2.1	.4										2.5	2.6
ENE	.7	1.1										1.8	3.6
E	.4	1.4										1.8	3.4
ESE													
SE		.4										.4	5.0
SSE	.7	.4										1.4	4.5
S	2.1	3.2	1.4	.4								7.1	4.8
SSW	5.3	5.7	1.1									12.0	4.0
SW	3.5	.7										4.2	2.7
WSW	4.9	2.8										7.8	3.2
W	7.8	6.4	1.4									15.5	3.9
WNW	7.8	6.0	.4									14.1	3.4
NW	3.2	5.3										8.5	3.5
NNW	1.5	.4										2.1	2.7
VARIABLE													
CALM												17.3	
	43.8	33.9	4.6	.4								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

283

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

JUL
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE		.4										.4	6.0
S		2.5	2.5	.7								5.6	7.6
SSE	.7	3.9	4.6	.7								9.8	7.0
SW	.4	3.9	6.3	.7								11.2	7.3
WSW	1.8	6.3	6.0									14.0	6.0
W	1.4	17.5	21.4	1.8								42.1	7.0
WNW	.4	4.2	11.2									15.8	7.4
NW			1.1									1.1	6.7
NWN													
VARBL													
CALM												.0	
	4.6	38.6	53.0	3.9								100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

295

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEAR

JUL
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥66	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S			2.5	.6								2.8	8.4
SSW		1.4	4.2	2.1								7.7	9.5
SW		1.8	6.0	1.8	.4							9.8	9.0
WSW		7.7	13.3	.4								21.4	7.3
W		8.4	28.8	6.7								43.9	8.4
WWW			10.9	2.8								13.7	9.4
NW				.7								.7	12.5
NNW													
VARBL													
CALM												.0	
		19.3	65.6	14.7	.4							100.0	8.5

TOTAL NUMBER OF OBSERVATIONS

289

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

JUL
MONTH

ALL WEATHER
CLASS

16
DAYS (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													
NNE													
E													
ESE													
SE													
SSE													
S		1.3	1.3									2.6	6.8
SSW	.9	3.4	6.1	.9								11.1	7.2
SW		2.1	6.4	.4								9.0	7.5
WSW	1.7	11.5	11.1	.4								24.7	6.3
W	.9	14.1	18.4	2.6								35.9	7.3
WW		2.6	12.4	.4								15.4	7.8
NW			1.3									1.3	8.7
NNW													
VARL													
CALM												.0	
	3.4	35.0	56.8	4.7								100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

230

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

JUL
MONTH

ALL WEATHER
CLASS

19
YEAR

ZONE (L.S.T.)

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
NNE													
E													
ESE													
SE													
SSE													
S	1.3	2.6	1.8									5.7	5.2
SSW	4.8	5.3	.4	.4								11.0	4.0
SW	3.1	6.2	.9									10.1	4.8
WSW	7.9	8.8										16.7	3.8
W	10.6	10.3	2.6									29.5	4.2
WWW	4.0	9.7	4.0									17.6	3.0
NW	.9	3.1	1.3									5.3	3.8
NNW													
YARRL													
CALM												4.0	
	32.6	52.0	11.0	.4								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

227

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73.77-82
YEARS

JUL
MONTH

ALL WEATHER
CLAS

22
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													
NNE													
E													
ESE													
SE	.7											.7	2.0
SSE													
S	4.6	3.3	.7									8.5	3.5
SSW	6.5	3.3										9.8	3.4
SW	7.8	.7	.7									9.2	2.6
WSW	3.9											3.9	2.3
W	6.5	5.9										12.4	3.2
WW	9.8	8.5										18.3	3.5
WNW	4.6	3.3										7.8	3.5
WNW	.7											.7	2.0
VARB													
CALM												28.8	
	95.1	24.8	1.3									100.0	2.3

TOTAL NUMBER OF OBSERVATIONS

153

8808



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUL
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1											.1	2.5
NNE	.5											.5	2.4
NE	.4	.1										.5	2.6
ENE	.1	.2										.3	3.6
E	.1	.3										.3	3.0
ESE													
SE	.1	.1										.1	3.5
SSE	.1	.1	.1									.3	4.8
S	1.1	2.0	1.8	.3								5.2	5.6
SSW	2.7	3.8	2.9	.7								10.2	5.9
SW	2.0	2.6	3.6	.5	.1							8.9	6.2
WSW	3.2	6.5	5.5	.1								15.3	5.6
W	4.2	11.6	13.4	2.0								31.3	6.6
WNW	3.2	4.8	6.9	.6								15.5	6.2
NW	1.2	1.8	.6	.1								3.8	4.8
NNW	.6	.1										.5	2.6
VARBL													
CALM												7.0	
	14.6	39.0	39.8	4.5	.1							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

1468

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

3115 IMPERIAL BEACH, CALIFORNIA 73 AUG
STATION NAME STATION NAME YEAR MONTH
ALL WEATHER
CLASS
01
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													
NNE													
E													
ESE													
SE													
SE													
S													
SSW													
SW													
WSW	100.0											100.0	3.0
W													
WNW													
NW													
NNW													
VARB													
CALM												0.0	
	100.0											100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73 MONTH AUG
 CLASS ALL WEATHER MONTH 04
 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	100.0											100.0	3.0
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												.0	
	100.0											100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 23115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH AUG
 CLASS ALL WEATHER
 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	1.7	1.4										3.1	3.2
NNE	1.7	.3										2.1	3.0
NE	3.5	1.0										4.5	2.8
ENE	1.0	2.4										3.5	4.0
E	1.4	3.5	.7									5.0	4.6
ESE	1.7	.7	.3									2.9	3.3
SE	2.1											2.1	2.2
SSE	1.0	.3										1.4	2.5
S	1.4	3.5	1.4									6.2	5.3
SSW	3.5	3.1	.7									7.3	4.0
SW	2.4	3.1										5.5	3.5
WSW	3.1	1.7										4.8	3.0
W	6.6	2.1	.3									9.0	3.2
WNW	4.8	5.5	.3									10.7	3.9
NW	3.8	4.5	1.0									9.3	4.1
NNW	.3	2.1										2.4	4.3
VARBL													
CALM												19.7	
	40.1	35.3	4.8									100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 286

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

73115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-62
YEARS

AUG
MONTH

ALL WEATHER
CLASS

10
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													
NNE													
E													
ESE													
SE													
SSE													
S		.7	.8	.7	.3	.5						2.1	12.7
SSW		1.7	4.2	2.4								9.3	9.3
SW		2.4	7.6	.7								10.7	7.5
WSW	.7	6.9	5.9									13.5	6.5
W	1.3	15.2	17.6	.7								34.6	6.9
WNW	.7	4.2	16.3	.7								21.8	7.6
NW	.3	2.4	3.3									6.0	6.7
NNW		.3	.3									.7	6.0
VARBL													
CALM												.7	
	2.0	33.6	56.7	5.5	.3	.8						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

289

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION: 7315 IMPERIAL BEACH, CALIFORNIA STATION NAME: 73-02 YEARS: MONTH: AUG
 CLASS: ALL WEATHER HOURS (L.S.T.): 13
 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		.7										.3	6.0
NE													
ENE													
E													
ESE													
SE													
SSE													
S			.7	1.7	.7							2.4	13.3
SSW			4.7	1.7								5.9	10.0
SW		1.7	7.6	2.1								11.4	9.9
WSW		2.8	10.4	1.7								14.9	9.2
W		7.3	31.5	2.8								41.5	9.2
WNW		2.1	13.5	4.5								20.1	9.1
NW	.3		2.4									2.8	8.5
NNW			.7									.7	10.0
VARBL													
CALM												.0	
	.3	14.2	70.9	13.6	.7							100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 289

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

16
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	.4											.4	2.0
NE													
ENE													
E													
ESE													
SE													
SSE													
S			.4	.4								.8	11.5
SSW		1.2	3.9	1.6								6.6	9.0
SW	.8	3.5	4.7	.4								9.3	6.5
WSW		.7	7.9	.4								13.2	7.1
W	.4	15.5	24.4	1.6								42.2	7.1
WNW		5.4	14.7	.8								20.9	7.6
NW		.4	4.7									5.0	8.1
NNW			1.2									1.2	9.0
VARBL													
CALM												.4	
	1.9	31.0	61.6	5.0								100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

258

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

97115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

AUG
MONTH

ALL WEATHER
CLASS

19
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									.4	8.0
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S	.8	2.1	1.2	.4								4.6	5.8
SSW	2.1	1.7	.8									4.6	3.8
SW	3.7	5.4	.8									10.0	4.0
WSW	4.6	5.4	.4									10.4	4.1
W	11.7	14.2	1.2									27.1	3.7
WRW	6.2	16.2	2.1									24.6	4.4
NW	2.1	8.3	1.2									11.7	4.8
NNW		2.1										2.1	5.0
VARBL													
CALM												4.6	
	31.2	55.4	8.3	.4								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

240

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

9715 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73.77-82 YEARS AUG MONTH
ALL WEATHER CLASS 22 HOUR (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											.6	3.0
NNE													
NE													
NNE													
E	.6											.6	2.0
ESE													
SE													
SSE	1.3	.6	.6									2.6	4.8
S	3.9	3.2	1.3									8.4	4.0
SSW	4.5	4.5										9.0	3.6
SW	1.9	1.9										3.9	3.7
WSW	7.7	.6										8.4	2.5
W	9.7	2.6										12.3	2.7
WNW	6.4	3.2										11.6	3.3
NW	3.2	3.2										7.1	3.6
NNW	1.3	1.3										2.6	3.8
VARS													
CALM												32.9	
	43.2	21.9	1.9									100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 155

8805



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

43115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

AUG
MONTH

ALL WEATHER
CLASS

ALL
SOURCE (L.S.T.)

DESCRIPTION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.4	.3	.1									.7	3.6
NNE	.4	.1										.5	3.3
NE	.7	.2										.9	2.8
NNE	.2	.5										.7	4.0
E	.3	.7	.1									1.1	4.5
ESE	.3	.1	.1									.5	3.3
SE	.4											.4	2.2
SSE	.3	.1	.1									.5	3.6
S	.9	1.4	.9	.5	.2	.1						3.8	7.0
SSW	1.4	1.8	2.6	1.1								7.0	7.0
SW	1.4	3.0	3.8	.6								8.8	6.4
WSW	2.3	3.9	4.5	.4								11.1	6.1
W	4.4	9.9	13.7	.9								28.8	6.4
WSW	2.9	6.0	8.5	1.1								18.6	6.5
NW	1.5	3.1	2.4									7.0	5.5
NNW	.2	.9	.4									1.5	5.8
VARB.													
CALM												8.0	
	18.0	32.0	37.1	4.6	.2	.1						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1522

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEAR

SEP
MONTH

ALL WEATHER
CLASS

01
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													
NNE													
E													
ESE		100.0										100.0	5.0
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARB													
CALM												.0	
		100.0										100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

1

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

SEP
MONTH

ALL WEATHER
CLASS

09
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE		50.0										50.0	5.0
NNE													
E													
ESE													
SE													
SSE													
S	50.0											50.0	2.0
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												.0	
	50.0	50.0										100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

2

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

43115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

SEP
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

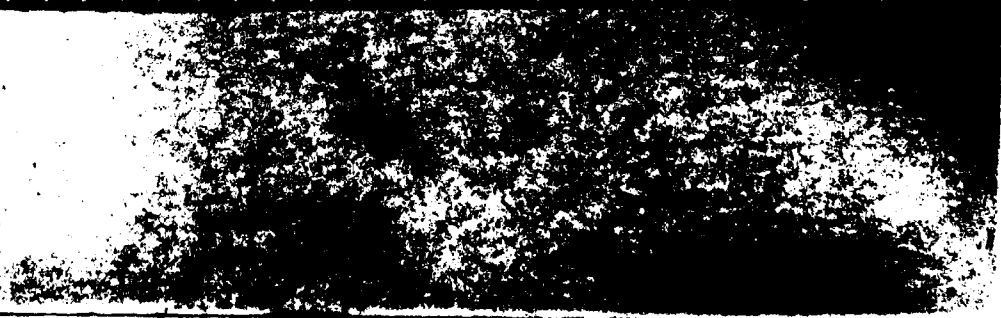
CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.7	.7	.4									1.8	4.6
NNE	2.9	.4										3.3	2.7
NE	3.7	1.5										5.5	3.3
NNE	2.6	2.6	1.1									6.2	4.2
E	4.4	7.7	1.8	.4								14.3	6.7
ESE	1.5	1.1	1.1									3.7	4.8
SE	.7	.4										1.1	2.7
ESE	1.1	1.1	.7									2.9	4.1
S	3.3	2.9	1.8									8.1	4.5
SSW	2.9	1.1										4.0	2.8
SW	2.2	1.5	.4									4.0	3.6
WSW	2.9	.4	.7									4.0	3.2
W	3.7	2.2										5.9	3.3
WRW	3.7	1.5										5.1	2.9
NW	2.6	1.8										4.6	3.8
NNW	2.6	1.5										4.0	3.8
VARBL													
CALM												21.3	
	41.5	28.7	5.1	.4								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

272

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

INFERNAL BEACH, CALIFORNIA
STATION NAME

73-92
YEAR

SEP
MONTH

ALL WEATHER
CLASS

10
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										.4	4.0
NNE													
NE													
NNE													
E	.4			.4								.7	6.5
ESE													
SE													
SSE		.4										.4	5.0
S	.4	2.2	.7									3.3	5.6
SSW	.4	2.6	2.9	1.1	.4							7.4	7.8
SW	.7	3.3	2.9	.4								7.4	6.6
WSW	1.2	8.5	3.7	.4								14.3	5.8
W	1.9	20.2	9.9	1.5								33.5	6.1
WNW	.7	9.2	8.8	.4								19.1	6.6
NW		4.9	5.5									10.3	6.6
NNW	.4	1.1	1.5									2.9	5.9
VARBL													
CALM												.4	
	6.6	52.6	36.0	4.0	.4							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 272

8MOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

5315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

SEP
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													
NNE													
NE													
NNE													
E													
ESE				.4								.4	12.0
SE													
SSE			.7									.7	7.5
S			.4									.4	10.0
SSW		.7	2.2	2.9	.4							6.2	10.8
SW		3.3	4.8	1.5								9.6	7.8
WSW	.7	5.2	9.6	1.5								18.0	7.4
W	.7	9.2	20.2	7.0								37.1	8.2
WNW		2.7	13.6	3.3								19.9	8.9
NW		.7	4.8	1.8								7.4	9.3
NNW		.4										.4	5.0
VARB													
CALM												.0	
	1.5	23.5	56.2	18.4	.4							120.0	8.4

TOTAL NUMBER OF OBSERVATIONS

272

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEAR 73-82 MONTH SEP
 CLASS ALL WEATHER HOUR (L.S.T.) 16
 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													
NNE													
E													
ESE													
SE													
SSE						.4						.4	25.0
S		.9	.4	.4								1.7	7.8
SSW	.4	4.3	3.0	.9								8.5	7.4
SW	.4	3.2	2.1	.4								6.8	6.3
WSW	1.3	6.8	3.8	1.3								13.2	6.3
W	2.5	12.3	12.1	2.1								36.2	7.0
WW	2.1	9.4	8.5									20.0	6.2
NW		3.5	6.0	.4								10.2	7.7
NNW		.0	2.1									3.0	8.1
VARIABLE													
CALM												.0	
	6.8	42.1	45.1	5.5		.4						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 235

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION: 3115 IMPERIAL BEACH, CALIFORNIA 73-82 YEARS: _____ MONTH: SEP
 CLASS: ALL WEATHER HOURS (LST): 17
 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	.4											.4	3.0
E													
ESE	.4		.4									.9	5.5
SE													
SSE		.4										.4	4.0
S	5.3	1.3	.9			.4						8.7	4.3
SSW	6.6	2.2	1.3									10.2	3.4
SW	3.5	2.7										6.2	3.3
WSW	2.2	2.2	.4									4.9	3.8
W	11.9	5.8	.9									18.6	3.3
WNW	4.9	5.8										10.6	3.7
NW	4.7	11.9	.9									16.4	4.4
NNW	.4	2.7										3.1	4.6
VARBL													
CALM												19.9	
	32.6	35.0	4.9			.4						100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 226

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION: 02119 STATION NAME: IMPERIAL BEACH, CALIFORNIA YEARS: 73, 77-82 MONTH: SEP
 CLASS: ALL WEATHER HOURS (LST): 22
 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	.7										2.8	2.9
NNE													
NE	1.4	.7										2.1	3.0
ENE	.7	1.4										2.1	3.7
E	.7	.7										1.4	3.5
ESE	1.4											1.4	2.9
SE	.7											.7	3.0
SSE	3.5											3.5	2.2
S	4.2	4.2	.7		.7							10.6	4.5
SSW	3.5	4.2	.7									8.5	4.1
SW	1.4											1.4	3.0
WSW	2.1											2.1	2.0
W	7.0	1.4										6.5	2.7
WNW	3.5	5.6										9.1	3.8
NW	4.2	3.5										7.7	3.5
NNW		2.1										2.1	4.3
YARN													
CALM												35.9	
	36.6	25.4	1.4		.7							100.0	2.2

TOTAL NUMBER OF OBSERVATIONS 142

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION: 7315 STATION NAME: IMPERIAL BEACH, CALIFORNIA YEARS: 73-72 REF: SEP
 NORTH: ALL
 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	.3	.1									.7	3.7
NNE	.6	.1										.7	2.7
NE	.5	.1										1.2	3.4
ENE	.4	.6	.7									1.7	4.1
E	1.0	1.5	.4	.1								3.0	4.8
ESE	.7	.3	.7	.1								1.8	4.1
SE	.2	.1										.3	2.8
SSE	.4	.4	.3			.1						1.2	5.2
S	2.0	1.1	.4	.1	.1	.1						4.9	4.8
SSW	2.1	2.3	1.4	.9	.1							7.2	6.3
SW	1.3	2.6	1.9	.4								6.2	5.9
WSW	1.2	4.4	2.4	.6								10.1	6.0
W	4.2	0.1	0.1	2.0								24.4	6.3
WNW	2.3	5.6	5.7	.7								14.7	6.3
NW	1.5	4.3	3.1	.4								9.4	6.0
NNW	.6	1.7	.6									2.9	5.2
VARBL													
CALM												10.9	
	20.7	35.2	27.6	5.3	.2	.1						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 1422

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION 7115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH OCT
 CLASS ALL WEATHER 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	2.9											2.9	2.4
NNE	2.9	1.4										4.3	3.0
NE	3.4	2.2	1.1									6.9	3.7
ENE	3.6	5.7	1.4									10.9	4.5
E	2.4	15.6	8.3	.4								29.7	5.4
ESE	2.2	2.9	1.1									6.2	4.7
SE	2.2	.7										2.9	3.3
SSE	1.4											1.4	2.5
S	2.2	1.0		.4								4.3	4.4
SSW	1.4	1.1										2.5	3.6
SW		1.1										1.1	4.0
WSW	.4	.4		.7								1.4	7.3
W	.7	1.1	.7									2.5	4.7
WNW	1.5	.4										2.2	2.8
NW	2.2											2.2	2.2
NNW	1.4	.4										1.8	3.0
VARBL													
CALM												16.7	
	34.4	34.8	12.7	1.4								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS 276

SMB

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

0715
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-42
YEARS

OCT
MONTH

ALL WEATHER
CLASS

10
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										1.2	3.0
NNE	.7											.7	2.0
NE	.4	.4										.7	4.5
ENE	.4											.4	2.0
E		.7	.4									1.1	7.0
ESE	.4			.4								.7	8.0
SE													
SSE	.4											.4	3.0
S	.4	1.1	.4		.4							2.1	7.3
SSW	1.1	3.2	2.1	1.4								7.8	6.8
SW	1.4	4.3	1.4	.4								7.5	5.5
WSW	1.4	4.6	2.5	.4								8.9	5.5
W	2.0	13.5	2.0	.7								19.0	5.3
WNW	2.1	13.5	5.7									26.3	5.4
NW	2.1	12.1	1.4	.4								16.0	5.1
NNW	1.4	2.1	.4									3.9	4.5
VARBL													
CALM												1.6	
	16.0	61.2	17.1	3.6	.4							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

281

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

4
7225

03115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-82 YEARS OCT 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													
NNE													
NE													
ENE				.4								.4	16.0
E													
ESE													
SE													
SSE													
S			.7	.4								1.1	9.0
SSW		.7	3.6	3.6								7.8	10.1
SW		5.7	2.1	1.1								8.5	6.8
WSW	.7	6.8	4.3	1.4								13.2	6.8
W	1.1	12.1	21.0	3.9								38.1	7.7
WNW	.7	4.3	17.1	3.9								26.0	8.4
NW		.4	3.6	.7								4.6	6.9
NNW													
VARBL													
CALM												.4	
	2.5	29.5	52.3	15.3								100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 281

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

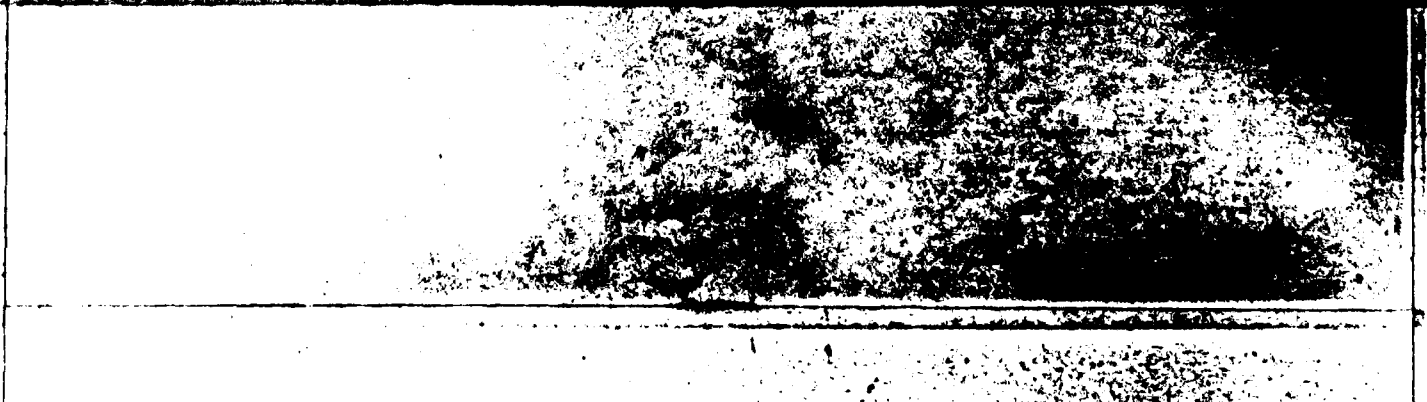
CONDITION

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					.4							.4	20.0
ESE													
SE													
SSE													
S	.4	1.6	.8									2.9	5.7
SSW	.4	3.7	4.1	.8	.4							9.4	7.6
SW	1.2	3.7	.3	.4								6.1	5.8
WSW	2.0	7.3	2.9									12.2	5.3
W	4.1	18.4	7.8	.8								31.0	5.5
WNW	.8	11.0	13.5	.4								25.7	6.8
NW	.8	3.7	5.3	.4								10.2	7.0
NNW		.4	.8									1.2	7.0
VARBL												.8	
CALM												.8	
	9.8	42.8	35.9	2.9	.8							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

245

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

OCT
MONTH

ALL WEATHER
CLASS

19
NUMBER (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	1.8	1.3										3.1	3.1
NNE													
NE	.9											.9	2.5
NNE		.4										.4	4.0
E	.9		.4									1.3	4.7
ESE	.4											.4	2.0
SE	.4											.4	2.0
SSE	.4											.4	2.0
S	3.1	2.7	1.8									7.5	4.5
SSW	2.2	4.0	.9									7.1	4.5
SW	1.8	.9	.4									3.1	3.9
WSW	1.7	.4	.4									2.2	3.4
W	3.5	3.1	.4	.4								7.5	4.2
WNW	.4	3.5	.4									12.4	3.4
NW	7.1	4.0	.4									11.5	3.3
NNW	4.7	1.3	.4									5.8	2.9
VARIABLE													
CALM												35.8	
	36.3	21.7	5.8	.4								100.0	2.4

TOTAL NUMBER OF OBSERVATIONS

226

8806



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-77-82
YEARS

OCT
MONTH

ALL WEATHER
CLASS

22
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											2.1	2.0
NNE	2.1											2.1	2.3
NE	2.1											2.1	1.7
ENE	3.5	1.4										5.0	3.1
E	2.8	4.3	1.4									8.5	4.2
ESE	2.1	.7										2.8	2.3
SE	1.4	1.4										2.8	2.8
SSE	.7	.7										1.4	3.5
S	1.4		.7									2.1	3.3
SSW		.7										.7	4.0
SW	1.4		.7									2.1	4.0
WSW	1.4	.7	.7									2.8	4.5
W	2.1	.7		.7								3.5	5.2
WNW	4.3	2.1	1.4									7.8	3.5
NW	1.4	2.1										3.5	3.6
NNW	2.1	.7										3.5	2.4
VARBL													
CALM												46.8	
	31.9	15.6	5.0	.7								100.0	1.8

TOTAL NUMBER OF OBSERVATIONS

141

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 75115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-92 MONTH OCT
 CLASS ALL WEATHER HOUR (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	1.2	.3										1.6	2.7
NNE	.9	.3										1.2	2.8
NE	1.1	.5	.2									1.8	3.5
NNE	1.1	1.3	.3	.1								2.8	4.5
E	1.4	3.5	1.9	.1	.1							7.0	5.4
ESE	.8	.6	.2	.1								1.7	4.5
SE	.6	.3										.9	3.0
SSE	.5	.1										.6	2.8
S	1.2	1.2	.7	.1	.1							3.3	5.2
SSW	.7	2.3	1.9	1.1	.1							6.2	7.1
SW	.9	2.8	1.7	.3								5.7	5.7
WSW	1.2	3.7	1.9	.5								7.2	5.8
W	2.3	8.8	6.1	1.2								18.5	6.2
WNW	2.8	7.1	6.9	.8								17.6	6.3
NW	2.2	3.9	1.9	.3								8.3	5.3
NNW	1.4	.9	.3									2.6	3.6
VARBL													
CALM												13.9	
	20.6	37.5	23.3	4.6	.2							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 1450

8MOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 93115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEAR 73 MONTH NOV
 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													
NE	20.0											20.0	3.0
ENE		20.0										20.0	6.0
E		40.0										40.0	6.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW			20.0									20.0	9.0
NW													
NNW													
VARBL													
CALM												.0	
	20.0	60.0	20.0									100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 5

8MOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 03115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73 MONTH NOV
 CLASS ALL WEATHER HOUR (L.S.T.) 00
 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			16.7									16.7	7.0
E			16.7									16.7	8.0
ESE			16.7									16.7	7.0
SE	16.7											16.7	2.0
SSE													
S													
SSW	16.7											16.7	2.0
SW													
WSW													
W													
WNW			16.7									16.7	10.0
NW													
NNW													
VARBL													
CALM												0.0	
	33.3		66.7									100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 6

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

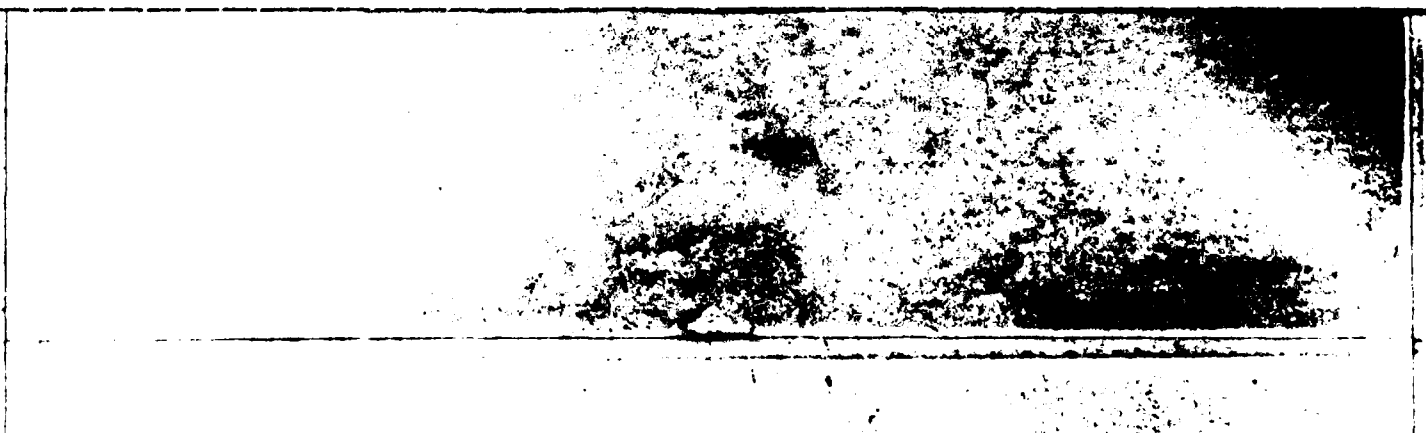
PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION 03115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH NOV
 CLASS ALL WEATHER HOUR (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	2.0	.4										2.4	2.7
NNE	5.2	4.4	.4									10.0	3.6
NE	4.4	4.0										9.2	3.7
NNE	4.0	9.2	2.4	.4								16.0	5.0
E	6.0	14.9	12.0	1.2								34.0	6.1
ESE	1.2	4.0		1.2								6.4	5.8
SE	.4	.4	1.6									2.4	6.2
SSE	.4			.4								.8	7.0
S	.4	.4	.4	.8								2.0	6.2
SSW		.4										.8	5.0
SW	.4	.4	.8									1.6	6.8
WSW		.4	.4	.4								1.2	7.7
W	.4	1.2	.8	.4								2.4	5.8
WNW		.4	.4									.8	6.5
NW	.4		.4									.8	5.5
NNW	.4											.4	2.0
VARBL													
CALM												6.4	
	26.5	41.8	20.5	4.4								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 249

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

0115
STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

NOV

MONTH

ALL WEATHER
CLASS

10

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	3.0	3.0	.8									7.6	4.1
NNE	2.3	.9										3.0	3.1
NE	1.9	1.1	.4									3.4	3.4
ENE	2.3	1.1	.4									3.8	3.4
E	2.7	3.4	.8	1.9		.4						9.1	7.1
ESE	.8	1.4	1.1	.4	.8							4.5	6.3
SE	.8	.4	.4	.4								1.9	6.4
SSE		.4	.4		.4							1.1	9.7
S	.4	1.9	.8									3.0	5.6
SSW	.8	2.3	2.7									5.7	6.0
SW	.8	3.0	1.9	.8		.4						6.9	7.4
WSW	1.9	2.3	.8									4.9	4.4
W	3.8	4.2	1.9	.8								10.6	5.0
WNW	1.1	4.9	1.1									7.2	4.8
NW	1.4	6.4	2.7									12.5	4.8
NNW	1.1	6.4	1.5									9.1	4.7
VARB													
CALM												5.7	
	26.9	43.9	17.4	4.2	1.1	.8						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

254

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION NO. 7315 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-82 MONTH NOV
 CLASS ALL WEATHER HOURS (LST) 17
 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	.2									1.5	6.8
NNE			.4									.4	10.0
NE													
ENE	.4			.4								.2	7.5
E													
ESE				.8								.2	14.0
SE													
SSE				.4								.4	16.0
S	.4		3.2	.4		.4						4.9	9.2
SSW		2.7	4.5									7.2	7.2
SW		3.2	3.2									6.4	6.5
WSW	1.5	6.1	3.2									10.6	5.5
W	1.1	15.5	7.6	2.7		.4						27.3	6.7
WNW	.4	6.1	14.2	.8	.4							22.0	7.7
NW		2.3	4.3	1.9								12.5	8.3
NNW	.4	1.1	2.3	1.1								4.9	7.8
VARBL													
CALM												.2	
	4.5	38.3	47.7	8.3	.4	.4						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 254

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION

IMPERIAL BEACH, CALIFORNIA

73-P2

YEARS

NOV

MONTH

ALL WEATHER

CLASS

16

HOURS (L E 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	.5	1.1									2.7	5.1
NNE													
NE	.4											.4	2.0
ENE													
E													
ESE		.4	.4									.8	7.0
SE				.4								.4	14.0
SSE				.4								.4	11.0
S	.4	.4	.4	.4								1.6	6.8
SSW	2.3	4.5	1.7	.8								9.3	5.3
SW	2.3	4.9	1.1	.4								8.7	5.0
WSW	3.4	6.4	1.1	.8								12.1	4.6
W	4.2	9.8	6.1	1.5								21.6	5.9
WNW	2.7	10.2	6.0	.4								20.1	5.8
NW	.2	5.7	6.4									12.7	5.4
NNW	1.1	1.4	3.7									6.1	6.1
VARBL													
CALM												2.7	
	12.0	45.5	28.4	4.9								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

264

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION: IMPERIAL BEACH, CALIFORNIA STATION NAME: IMPERIAL BEACH, CALIFORNIA YEARS: 73-77 MONTH: NOV

CLASS: ALL WEATHER HOURS (L S T): 19

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	1.7	2.3										4.7	3.3
NNE	.0	.0										0.0	2.0
NE	.0	.5	.4									1.4	2.0
ENE	.0	.0										1.4	3.3
E	1.5	1.4		.5								5.1	3.6
ESE	2.0	.0		.5								4.7	3.9
SE		.0										0.0	5.0
SSE	1.0	.5										2.3	2.6
S	2.3	2.0										5.1	3.8
SSW	.0	1.0	.0									3.7	4.6
SW	.0	2.3	.0									5.6	3.4
WSW	.0			.0								1.4	4.3
W	1.0	2.3	.0			.5						5.1	4.2
WNW	2.0	.0	.5	.5								4.7	4.0
NW	.0	1.4										6.5	3.1
NNW	1.0	.0										2.3	2.6
VARBL													
CALM												41.7	
	32.0	10.9	2.0	2.3		.5						100.0	2.3

TOTAL NUMBER OF OBSERVATIONS 216

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION: IMPERIAL BEACH, CALIFORNIA YEARS: 73, 77-82 NGV NORTH: 22
 CLASS: ALL WEATHER HOURS (L.S.T.): 22
 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	.7										2.0	3.0
NNE	1.4	.7										2.1	3.0
NE	.4											2.0	2.9
ENE	.7	1.4	1.4									12.1	3.4
E	.4	14.2	4.7									24.0	4.7
ESE	1.1	4.3										5.7	4.0
SE	.7	.7	1.4									2.3	5.5
SSE	.7		1.4									2.1	5.0
S	1.4	1.4	.7									3.5	4.2
SSW	.7	.7	1.4									2.0	5.0
SW	.7											.7	2.0
WSW	.7	.7		.7								2.1	7.3
W		1.1	.7	.7								2.3	7.8
WNW				.7								.7	12.0
NW													
NNW	.7											.7	2.0
VARBL													
CALM												31.2	
	22.1	26.2	11.3	2.1								100.0	3.1

TOTAL NUMBER OF OBSERVATIONS: 141

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

4

2466437

3115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-52 YEARS NOV 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	1.4	1.5	.5									3.5	4.1
NNE	1.6	1.1	.1									2.8	3.6
NE	1.6	1.1	.1									2.9	3.6
ENE	2.4	2.1	.7	.1								5.4	4.5
E	2.2	5.7	2.9	.6		.1						11.9	5.7
ESE	.9	1.6	.4	.5	.1							3.5	6.1
SE	.4	.4	.5	.1								1.3	6.2
SSE	.4	.1	.7	.2	.1							1.1	6.5
S	.3	1.1	1.1	.3		.1						3.3	6.4
SSW	.9	2.3	2.1	.1								5.3	5.8
SW	1.1	2.6	1.3	.2		.1						5.4	5.7
WSW	1.5	2.9	1.0	.4								5.4	5.3
W	2.1	6.2	3.2	1.0		.1						12.6	6.2
WNW	1.3	4.2	4.4	.4	.1							10.3	6.4
NW	1.6	2.9	3.3	.4								8.2	6.1
NNW	.7	1.9	1.3	.2								4.3	5.5
VARBL													
CALM												12.3	
	22.2	37.2	23.1	4.6	.3	.4						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 1409

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION 0115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73 MONTH DEC
 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													
NE													
ENE													
E	50.0		50.0									100.0	5.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												0.0	
	50.0		50.0									100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 2

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

0315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

DEC
MONTH

ALL WEATHER
CLASS

04
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	100.0											100.0	3.0
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM												0.0	
	100.0											100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

4
1000442
725

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

07
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										1.6	3.0
NNE	5.0	3.5										8.5	3.3
NE	5.0	4.7	.8									10.5	4.0
ENE	4.3	8.9	5.8									19.0	5.4
E	3.8	15.5	14.3	.8	1.2		.4					35.7	7.0
ESE	.8	2.7	.8									4.3	4.8
SE	.8	1.6	.4	.8								3.5	6.3
SSE	.4	.4		.4								1.2	7.3
S	.4		1.2									1.6	6.5
SSW			.4									.4	7.0
SW													
WSW		.4										.4	4.0
W			.8	.8								1.6	11.0
WNW			.4									.4	9.0
NW													
NNW		.4										.4	4.0
VARBL													
CALM												11.2	
	21.3	38.4	24.8	2.7	1.2		.4					100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

258

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

DEC
MONTH

ALL WEATHER
CLASS

10
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	3.7	4.5	.7									9.0	4.0
NNE	2.2	1.9	.4									4.5	3.8
NE	1.5	2.6	.4									4.5	4.2
ENE	2.6	1.9	1.5	.4								6.7	4.9
E	3.0	10.8	6.7	.7	.7			.4				22.4	7.0
ESE	1.9	1.5	.7	.4	.7							5.2	6.8
SE	1.5	.4	.4									2.2	4.2
SSE		.4	1.1		.4							1.9	10.2
S	1.5	1.1	1.9	1.1								5.6	6.7
SSW	.7	1.9	2.2									4.9	5.8
SW	1.5	.7	.4									2.6	3.7
WSW	1.9	.7	.7									3.4	4.1
W	1.5	1.1	1.1	1.5								5.2	7.1
WNW		2.2		.4								2.6	6.0
NW	1.9	1.9		.4								4.1	4.3
NNW	1.5	4.1	.4									6.0	4.8
VARBL													
CALM												9.7	
	26.9	37.7	18.7	4.9	1.9			.4				100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

268

8808

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION 37115 STATION NAME IMPERIAL BEACH, CALIFORNIA YEARS 73-92 MONTH DEC
 CLASS ALL WEATHER HOUR (L.S.T.) 17
 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		1.5	2.2									3.7	7.1
NNE													
NE													
ENE			.4									.4	7.0
E	.4		.4	.4			.4					1.5	14.0
ESE		.4			.4							.7	13.0
SE				.4								.4	14.0
SSE		.4			.4							.7	12.0
S		.7	1.9	.7								3.4	9.1
SSW	.7	2.6	6.3	1.1								10.8	7.9
SW	.7	2.2	3.0									6.9	6.7
WSW	2.6	4.1	3.8									10.1	5.2
W	2.2	12.7	10.9	1.1	.4							27.2	6.6
WNW	1.1	7.1	11.9	1.5								21.6	7.2
NW	.7	3.7	5.2	.7								10.4	6.7
NNW	.4	1.1	.7	.4								2.6	6.7
VARB													
CALM												.4	
	7.0	36.6	46.3	6.3	1.1		.4					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 268

SMOS



4
 NAVAL WEATHER SERVICE
 DETACHMENT
 ASHEVILLE, NC

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

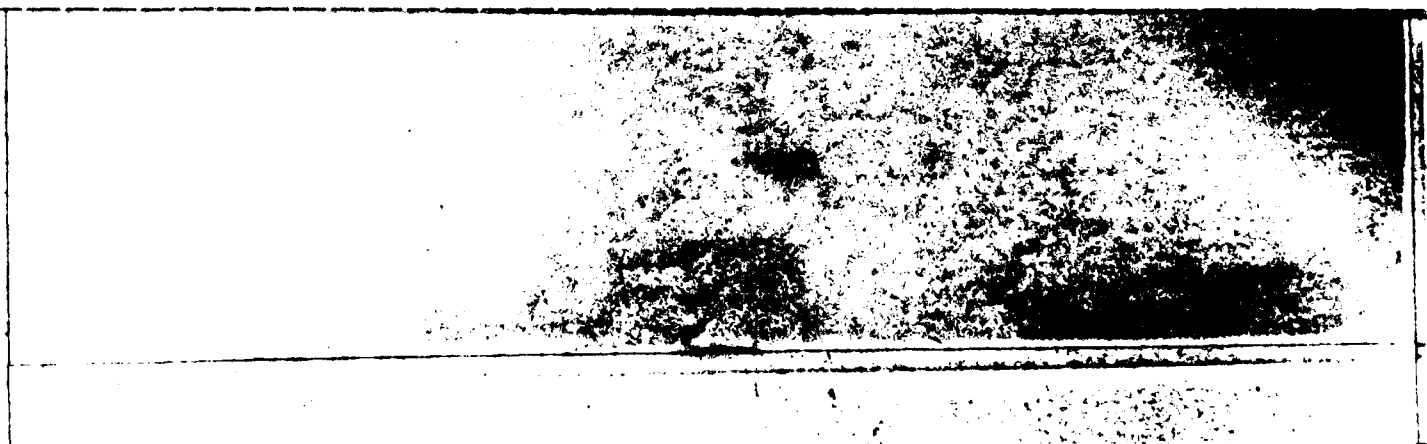
SURFACE WINDS

03115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-82 YEARS DEC MONTH 16 HOURS (L.S.T.)
 ALL WEATHER CLASS
 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	6.3
NNE		.4										.4	4.0
NE				.4								.4	13.0
ENE			.4									.4	7.0
E		1.1	.4			.4						1.7	9.6
ESE													
SE			.4									.4	8.0
SSE		.4										.4	6.0
S	2.2	2.2	1.1	.7								6.4	5.1
SSW	1.9	4.1	1.9	.7								8.6	6.0
SW	3.4	4.5	1.1									9.0	4.2
WSW	2.6	3.7	2.6	.7								9.0	5.5
W	5.6	2.4	2.6	.4								16.0	4.5
WNW	3.7	10.9	7.1		.4							22.1	5.8
NW	2.2	5.6	2.2									10.1	5.6
NNW	.7	2.2	1.1	.4								4.5	5.8
VARBL													
CALM												7.1	
	22.5	46.9	21.3	5.4	.4	.4						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 267

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

03115 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 73-22 YEARS DEC NORTH 19 HOURS (L.S.T.)

ALL WEATHER CLASS

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	1.0	.5										2.4	2.4
NNE	.5	.9		.5								1.9	5.5
NE	.5	.5										.9	3.5
ENE	1.9	.5										2.4	2.4
E	8.7	6.6	.9	1.0			.5					17.9	5.4
ESE	2.4	.5	.5									3.3	3.7
SE	2.4	.5	.5									3.3	3.0
SSE	1.9	.9	.5									3.3	3.4
S	1.4	2.4	.5	.5								4.7	4.8
SSW	1.4	.9	.5									2.8	4.5
SW			.9									.9	7.0
WSW													
W		.5	1.0	.5								2.8	9.3
WNW	.4	.5		.5								1.0	6.8
NW	1.4	1.9	.9									4.2	4.9
NNW	.9											.9	1.5
VARBL													
CALM												46.0	
	25.5	17.0	7.1	3.8			.5					100.0	2.6

TOTAL NUMBER OF OBSERVATIONS 212

SMOS



NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

STATION 07119 IMPERIAL BEACH, CALIFORNIA STATION NAME 73-77-82 YEARS MONTH DEC
 CLASS ALL WEATHER HOURS (L.S.T.) 22
 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	1.6	.0									6.0	3.8
NNE	7.2	1.6										4.0	2.8
NE	4.0	1.6										6.0	3.1
ENE	4.0	7.9	1.6									14.3	4.7
E	2.4	12.7	1.6	.8	.8	.8						19.0	6.6
ESE		.8										.8	4.0
SE		1.6	.8									2.4	6.0
SSE	.8	.8										1.6	3.0
S	.8		.8		.8							2.4	3.3
SSW	.8	.8										1.6	4.0
SW	.8		.8									1.6	5.5
WSW			.8									.8	7.0
W				.8								.8	15.0
WNW			.8									.8	10.0
NW													
NNW	.8											.8	2.0
VARBL													
CALM												35.7	
	23.0	29.4	7.0	1.6	1.6	.8						100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 126

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION: 7115 STATION NAME: IMPERIAL BEACH, CALIFORNIA YEARS: 73-82 MONTH: DEC

CLASS: ALL WEATHER MONTHS (L & 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	1.5	1.5	.7									3.9	4.5
NNE	1.7	1.4	.1	.1								3.2	3.6
NE	1.7	1.6	.7	.1								3.5	4.1
NNE	2.0	2.4	1.6	.1								6.5	4.9
E	2.2	7.3	4.4	.7	.4	.1	.2	.1				16.1	6.8
ESE	.2	1.0	.4	.1	.2							2.5	5.8
SE	.8	.6	.4	.2								1.9	5.3
SSE	.4	.5	.2	.1	.1							1.4	6.7
S	1.1	1.1	1.3	.6	.1							4.1	6.4
SSW	.2	1.9	2.1	.4								5.2	6.6
SW	1.1	1.4	1.1									3.6	5.1
WSW	1.4	1.6	1.4	.1								4.4	5.2
W	1.3	4.5	3.2	.9	.1							10.4	6.2
WNW	1.1	3.2	3.9	.4	.1							9.3	6.5
NW	1.1	2.4	1.6	.2								5.2	5.7
NNW	.7	1.5	.4	.1								2.8	5.2
VARBL													
CALM												15.5	
	1.1	35.0	22.2	4.0	1.0	.1	.2	.1				100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 1402

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

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

STATION: IMPERIAL BEACH, CALIFORNIA STATION NAME: IMPERIAL BEACH, CALIFORNIA YEARS: 73-82 MONTH: ALL

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	.0	.0	.2	.0								1.7	4.2
NNE	.0	.0	.1	.0								1.4	3.9
NE	.0	.0	.1	.0								1.3	3.6
ENE	.0	1.2	.4	.0	.0							2.3	4.5
E	1.0	3.2	1.6	.3	.1	.0	.0	.0				7.0	6.0
ESE	.0	.7	.3	.2	.1	.0	.0	.0				1.9	5.4
SE	.4	.3	.2	.1	.0							1.0	5.4
SSE	.4	.4	.2	.2	.1	.0						1.3	7.2
S	1.1	1.5	1.4	.8	.1	.0						5.1	7.0
SSW	1.3	2.2	2.6	.7	.0	.0						6.4	6.7
SW	1.7	2.6	2.6	.4	.0	.0						6.4	6.2
WSW	1.6	4.0	3.6	.5	.0							9.8	6.2
W	2.0	7.9	8.5	1.5	.1	.0						11.0	6.6
WNW	1.3	4.4	5.8	1.0	.0							13.5	6.6
NW	1.3	2.7	2.1	.4								6.6	5.9
NNW	.7	1.1	.5	.1								2.4	5.2
VARBL													
CALM												9.4	
	18.7	34.3	30.3	6.3	.6	.1	.0	.0				100.0	5.6

TOTAL NUMBER OF OBSERVATIONS 17419

SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

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

SURFACE WINDS

7315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-92
YEARS

ALL
MONTH

INSTRUMENT

CLASS

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

CONDITION

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

ALL

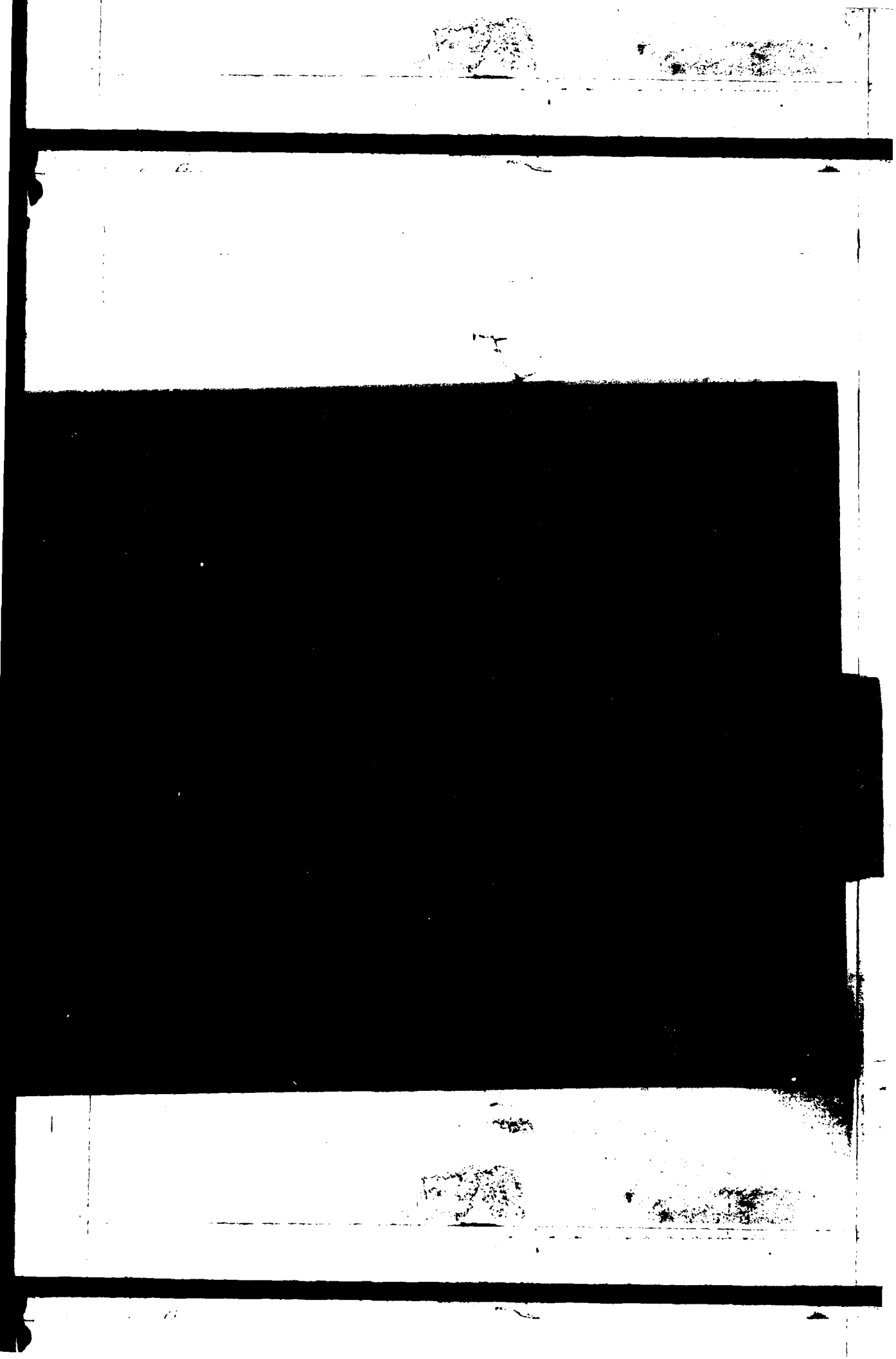
HOURS (L.S.T.)

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	.4	.4	.1	.0								1.4	3.7
NNE	1.7	.3	.0									1.3	3.1
NE	.3	.0										1.7	3.7
ENE	.1	.2	.0									1.7	3.7
E	1.2	2.4	.5	.1			.1					4.2	5.1
ESE	.7	.4	.1	.0								1.3	4.2
SE	.5	.3	.1	.0								1.0	4.3
SSE	.0	.4	.2	.2	.1	.1						1.7	7.3
S	2.2	2.7	1.0	1.2	.2	.0						8.5	6.6
SSW	2.5	3.0	2.7	.4								9.6	5.5
SW	2.2	3.8	2.4	.2		.0						8.7	5.4
WSW	2.7	5.0	2.3	.3								10.3	5.2
W	4.0	2.7	4.0	.3		.1						18.7	5.3
WNW	3.0	4.8	2.6	.3	.0							11.3	5.1
NW	2.1	2.7	1.1	.1								6.1	4.6
NNW	.4	.7	.1	.0								1.0	4.2
VARBL													
CALM												11.1	
	24.7	38.9	19.1	3.3	.4	.2	.1					100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

7271

SMOS



NOCD, Federal Building
Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By Month - all years and all hours combined
3. By Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NWS and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	$\geq 2\frac{1}{2}$	≥ 2	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	≥ 1	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{5}{16}$	$\geq \frac{1}{4}$	≥ 0	
NO CEILING																
IV IV 1800																
IV IV 1500					91.0											92.6
IV IV 1200																
IV IV 1000																
IV IV 900																
IV IV 800																
IV IV 700																
IV IV 600																
IV IV 500										97.4						98.1
IV IV 400																
IV IV 300																
IV IV 200																
IV IV 100																
IV IV 0					95.4		96.9			98.3						100.0

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."

Since these tabulations 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:

<u>OKTAS</u>	<u>TENTHS</u>
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

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

77

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (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	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 20000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 18000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 16000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 14000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 12000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 10000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 9000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 8000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 7000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 6000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 5000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4500	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 3500	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 3000	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 2500	25.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 2000	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	25.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

4

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73

YEARS

MONTH

14

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	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 20000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 18000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 16000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 14000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 12000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 10000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 9000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 8000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 7000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 6000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	67.0	81.0	80.0	80.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 5

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-84

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	46.1	54.3	56.1	56.1	57.3	57.6	59.5	59.5	59.5	59.9	59.9	59.9	64.2	64.2	64.2	64.2
IV 20000	49.4	58.4	60.6	60.6	61.7	62.1	63.9	63.9	63.9	64.3	64.3	64.3	64.7	64.7	64.7	64.7
IV 18000	47.4	59.4	60.6	60.6	61.7	62.1	63.9	63.9	63.9	64.3	64.3	64.3	64.7	64.7	64.7	64.7
IV 16000	49.4	58.4	60.6	60.6	61.7	62.1	63.9	63.9	63.9	64.3	64.3	64.3	64.7	64.7	64.7	64.7
IV 14000	47.8	58.7	61.0	61.0	62.1	62.5	64.3	64.3	64.3	64.7	64.7	64.7	65.1	65.1	65.1	65.1
IV 12000	50.6	59.5	61.7	61.7	62.9	63.2	65.1	65.1	65.1	65.4	65.4	65.4	65.8	65.8	65.8	65.8
IV 10000	51.3	60.2	62.5	62.5	63.6	63.9	65.8	65.8	65.8	66.2	66.2	66.2	66.5	66.5	66.5	66.5
IV 9000	51.3	60.2	62.5	62.5	63.6	63.9	65.8	65.8	65.8	66.2	66.2	66.2	66.5	66.5	66.5	66.5
IV 8000	54.3	63.2	65.4	65.4	66.5	66.9	68.8	68.8	68.8	69.1	69.1	69.1	69.5	69.5	69.5	69.5
IV 7000	54.7	63.6	65.8	65.8	66.9	67.3	69.1	69.1	69.1	69.5	69.5	69.5	69.9	69.9	69.9	69.9
IV 6000	54.7	63.6	65.8	65.8	66.9	67.3	69.1	69.1	69.1	69.5	69.5	69.5	69.9	69.9	69.9	69.9
IV 5000	55.7	63.9	66.2	66.2	67.3	67.7	69.5	69.5	69.5	69.9	69.9	69.9	70.3	70.3	70.3	70.3
IV 4500	55.8	64.7	66.9	66.9	68.7	68.4	70.3	70.3	70.3	70.6	70.6	70.6	71.0	71.0	71.0	71.0
IV 4000	57.3	66.5	69.1	69.1	70.3	70.6	72.9	72.9	72.9	73.2	73.2	73.2	73.6	73.6	73.6	73.6
IV 3500	59.5	68.8	71.4	71.4	72.5	72.9	75.1	75.1	75.1	75.5	75.5	75.5	75.8	75.8	75.8	75.8
IV 3000	61.7	71.4	74.0	74.0	75.1	75.5	77.7	77.7	77.7	78.1	78.1	78.1	78.4	78.4	78.4	78.4
IV 2500	63.3	75.1	77.7	77.7	78.8	79.2	81.4	81.8	81.8	82.5	82.5	82.5	82.9	82.9	82.9	82.9
IV 2000	65.8	78.8	81.8	82.2	83.3	83.6	85.9	86.3	86.3	87.0	87.0	87.0	87.4	87.4	87.4	87.4
IV 1800	66.2	79.6	82.5	82.9	84.0	84.4	86.8	87.0	87.0	87.7	87.7	87.7	88.1	88.1	88.1	88.1
IV 1500	66.9	80.2	85.5	86.3	87.4	87.7	90.0	90.3	90.3	91.1	91.1	91.1	91.5	91.5	91.5	91.5
IV 1200	66.4	82.2	85.5	86.3	87.4	87.7	90.0	90.3	90.3	91.1	91.1	91.1	91.5	91.5	91.5	91.5
IV 1000	66.4	82.3	87.7	88.5	91.1	91.5	93.7	94.1	94.1	94.8	94.8	94.8	95.2	95.2	95.2	95.2
IV 900	66.4	83.3	87.7	88.5	91.1	91.5	93.7	94.1	94.1	94.8	94.8	94.8	95.2	95.2	95.2	95.2
IV 800	66.4	83.3	87.7	88.5	91.1	91.5	93.7	94.1	94.1	94.8	94.8	94.8	95.2	95.2	95.2	95.2
IV 700	66.4	83.6	88.1	88.9	91.8	92.2	94.4	94.8	94.8	95.5	95.5	95.5	95.9	95.9	95.9	95.9
IV 600	66.4	83.6	88.1	88.9	92.9	93.3	95.9	95.9	95.9	97.0	97.0	97.0	97.4	97.4	97.4	97.4
IV 500	66.9	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	97.4	97.4	97.4	97.8	97.8	97.8	97.8
IV 400	66.4	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	97.4	97.4	97.4	97.8	97.8	97.8	97.8
IV 300	66.4	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	97.8	97.8	97.8	98.1	98.1	98.1	98.1
IV 200	66.9	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	98.1	98.1	98.1	98.9	98.9	98.9	98.9
IV 100	66.9	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	98.1	98.1	98.1	98.9	98.9	98.9	98.9
IV 0	66.9	83.6	88.1	88.9	92.9	93.3	95.9	96.3	96.3	98.1	98.1	98.1	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS

469

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-92

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ¾	≥ ¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	46.8	59.5	67.6	63.0	64.1	64.8	64.8	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 20000	50.8	64.8	65.9	68.7	72.1	70.8	70.8	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
IV 18000	50.7	65.1	66.2	69.0	70.4	71.1	71.1	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 16000	50.7	65.1	66.2	69.0	70.4	71.1	71.1	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 14000	50.7	65.1	66.2	69.0	70.4	71.1	71.1	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 12000	51.1	65.5	66.6	69.4	70.8	71.5	71.5	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 10000	52.1	66.6	67.6	70.4	72.2	72.9	73.2	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
IV 9000	52.1	66.6	67.6	70.4	72.2	72.9	73.2	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
IV 8000	53.5	68.0	70.1	72.9	74.7	75.4	75.7	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
IV 7000	53.9	69.4	70.4	73.2	75.0	75.7	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 6000	54.2	69.7	71.1	73.9	75.7	76.4	76.8	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 5000	54.9	70.4	71.8	74.7	76.4	77.1	77.5	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 4500	54.9	70.4	71.8	74.7	76.4	77.1	77.5	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 4000	56.3	72.2	73.6	76.4	78.2	78.9	79.2	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
IV 3500	59.5	74.7	76.1	78.9	80.6	81.3	81.7	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
IV 3000	62.3	79.2	81.6	83.5	85.2	85.9	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
IV 2500	64.4	81.3	82.8	85.6	87.3	88.4	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 2000	66.6	84.5	85.9	88.7	90.5	91.6	91.9	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 1800	66.6	84.5	85.9	88.7	90.5	91.6	91.9	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
IV 1500	67.8	85.9	86.3	89.1	93.7	94.0	94.4	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1200	68.0	86.6	88.7	91.9	94.4	95.4	95.8	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1000	68.3	87.0	89.1	92.3	94.7	95.8	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 900	68.3	87.0	89.1	92.3	94.7	95.8	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 800	68.3	87.0	89.1	92.6	95.1	96.1	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 700	68.3	87.0	89.1	92.6	95.4	96.5	96.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 600	68.3	87.0	89.1	92.6	95.4	97.2	97.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 400	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 300	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 200	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 100	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 0	68.3	87.0	89.1	92.6	95.4	97.2	97.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS

288

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JAN

MORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS (L. S. Y.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	51.1	58.1	60.2	61.6	62.3	63.0	63.0	63.4	63.4	63.7	63.7	63.7	63.7	63.7	63.7	63.7
IV 20000	56.7	64.8	68.7	69.4	70.4	71.1	71.1	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 18000	56.7	64.8	68.7	69.4	70.4	71.1	71.1	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 16000	56.7	64.8	68.7	69.4	70.4	71.1	71.1	71.5	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 14000	56.7	64.8	68.7	69.7	70.8	71.5	71.5	71.8	71.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 12000	56.3	65.5	68.7	70.4	71.5	72.2	72.2	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9
IV 10000	58.1	67.3	70.4	72.2	73.2	73.9	73.9	74.3	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7
IV 9000	58.1	67.3	70.4	72.2	73.2	73.9	73.9	74.3	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7
IV 8000	60.6	70.1	73.2	75.0	76.1	76.8	76.8	77.1	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 7000	60.6	70.1	73.2	75.0	76.1	76.8	76.8	77.1	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 6000	61.3	70.8	73.9	75.7	76.8	77.5	77.5	77.8	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 5000	62.3	72.2	75.4	77.1	78.2	78.9	78.9	79.2	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 4500	62.3	72.2	75.4	77.1	78.2	78.9	78.9	79.2	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 4000	64.4	74.7	77.8	79.6	80.6	81.3	81.3	81.7	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 3500	66.6	76.8	80.3	82.0	83.1	83.8	83.8	84.2	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5
IV 3000	68.7	78.9	82.4	84.2	85.2	85.9	85.9	86.3	86.3	86.6	86.6	86.6	86.6	86.6	86.6	86.6
IV 2500	70.4	81.3	84.9	86.6	87.7	88.4	88.4	89.1	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 2000	73.2	84.5	88.4	90.1	91.2	91.9	92.3	92.6	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 1800	73.2	84.5	88.4	90.1	91.2	91.9	92.3	92.6	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IV 1500	75.4	86.6	90.5	92.3	93.3	94.0	94.4	94.7	94.7	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1200	76.4	87.7	91.9	93.7	94.7	95.4	95.8	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1000	76.4	89.4	93.7	95.4	96.8	97.5	97.9	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 900	76.4	89.4	93.7	95.4	96.8	97.9	98.6	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 800	76.4	89.4	93.7	95.4	96.8	97.9	98.6	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 700	76.4	89.4	93.7	95.4	96.8	97.9	98.6	98.9	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 600	76.4	89.4	93.7	95.4	97.2	98.2	98.9	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 500	76.4	89.4	94.0	96.1	97.5	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	76.4	89.4	94.0	96.1	97.5	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	76.4	89.4	94.0	96.1	97.5	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	76.4	89.4	94.0	96.1	97.5	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	76.4	89.4	94.0	96.1	97.5	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	76.4	89.4	94.0	96.1	97.5	98.6	99.3	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 294

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JAN

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	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	57.4	57.3	61.8	63.0	63.9	63.9	64.3	64.3	64.3	64.6	64.5	64.0	64.6	64.0	64.6	64.5
IV 20000	55.4	55.4	67.9	70.0	70.7	70.7	71.4	71.4	71.4	71.8	71.8	71.8	71.8	71.0	71.8	71.8
IV 18000	55.4	60.4	68.9	71.4	71.8	71.8	72.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9
IV 16000	56.4	60.4	68.9	71.4	71.8	71.8	72.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9
IV 14000	57.9	67.9	70.4	72.5	73.2	73.2	73.9	73.9	73.9	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 12000	59.6	68.0	71.1	73.2	73.9	73.9	74.6	74.6	74.6	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 10000	61.1	71.4	74.3	76.4	77.1	77.1	77.9	77.9	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 9000	61.4	71.8	74.6	76.8	77.5	77.5	78.2	78.2	78.2	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 8000	62.5	73.2	76.4	78.0	79.3	79.6	80.4	80.4	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 7000	62.9	73.6	76.8	78.9	79.6	80.0	80.7	80.7	80.7	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 6000	63.2	73.9	77.1	79.3	80.0	80.4	81.1	81.1	81.1	81.4	81.4	81.4	81.4	81.4	81.4	81.4
IV 5000	63.9	74.6	77.9	80.3	80.7	81.1	81.8	81.8	81.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 4500	64.3	75.0	78.2	80.4	81.1	81.4	82.1	82.1	82.1	82.5	82.5	82.5	82.5	82.5	82.5	82.5
IV 4000	66.1	76.8	80.7	82.1	82.9	83.2	83.9	83.9	83.9	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV 3500	68.2	78.9	82.1	84.3	85.7	85.4	86.1	86.1	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 3000	69.6	81.1	84.3	86.4	87.1	87.5	88.2	88.2	88.2	88.6	88.6	88.6	88.6	88.6	88.6	88.6
IV 2500	72.5	83.9	87.1	89.3	90.7	90.4	91.1	91.1	91.1	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 2000	73.2	84.6	87.9	90.0	91.1	91.4	92.1	92.1	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1800	73.6	85.0	88.2	90.4	91.4	91.8	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 1500	74.6	87.1	90.4	92.5	93.6	93.9	94.6	94.6	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1200	75.4	88.2	92.1	94.3	95.7	96.1	96.8	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 1000	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 900	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 800	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 700	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 600	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 500	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 400	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 300	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 200	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 100	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 0	75.7	88.6	92.5	95.0	96.4	96.8	97.5	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-92

YEARS

MONTH

JAN

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	≥ 1/8	≥ 0
NO CEILING	36.1	57.6	59.7	61.5	67.9	62.9	67.7	60.9	67.4	60.9	60.9	60.9	60.9	60.9	60.9	60.9
≥ 20000	37.3	57.7	61.8	62.7	63.1	63.1	63.1	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IVIV 18000	37.8	60.1	62.2	63.1	63.5	63.5	63.5	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
16000	37.8	60.1	62.2	63.1	63.5	63.5	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IVIV 14000	38.0	61.6	64.0	64.8	65.2	65.2	65.7	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
12000	38.1	62.7	64.8	65.7	66.1	66.1	66.5	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
IVIV 10000	38.5	64.4	66.5	67.4	67.8	67.8	68.2	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
9000	38.5	64.4	66.5	67.4	67.8	67.8	68.2	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
IVIV 8000	40.3	66.1	68.2	69.1	69.5	69.5	70.0	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
7000	41.2	67.0	69.1	70.0	70.4	70.4	70.8	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IVIV 6000	41.6	67.4	69.5	70.4	70.8	70.8	71.2	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
5000	42.5	68.7	70.8	71.7	72.1	72.1	72.5	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
IVIV 4500	43.4	70.0	72.1	73.0	73.4	73.4	73.8	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
4000	44.5	71.1	74.3	75.5	76.0	76.0	76.4	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IVIV 3500	46.4	73.4	75.5	76.8	77.3	77.3	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
3000	48.5	76.8	79.1	80.5	81.1	81.1	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IVIV 2500	51.2	79.4	82.1	83.3	84.1	84.1	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
2000	51.5	82.4	85.1	86.3	87.1	87.1	87.6	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IVIV 1800	51.7	82.8	85.4	86.7	87.6	87.6	88.1	88.4	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
1500	52.4	85.4	88.8	90.1	91.9	92.3	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
IVIV 1200	52.7	86.7	90.6	91.9	94.0	94.4	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1000	53.7	88.4	92.3	93.6	95.7	96.1	96.6	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
IVIV 900	53.7	88.4	92.3	94.0	96.6	97.0	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
800	53.7	88.4	92.3	94.0	96.6	97.0	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IVIV 700	53.7	88.4	92.3	94.0	96.6	97.0	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
600	53.7	88.4	92.3	94.0	96.6	97.0	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IVIV 500	53.7	88.4	92.3	94.0	97.0	97.4	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
400	53.7	88.4	92.3	94.0	97.4	97.9	98.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IVIV 300	53.7	87.3	93.1	95.3	97.9	98.3	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
200	53.7	87.3	93.1	95.3	97.9	98.3	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
IVIV 100	53.7	87.3	93.1	95.3	97.9	98.3	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
0	53.7	87.3	93.1	95.3	97.9	98.3	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS

233

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION IMPERIAL BEACH, CALIFORNIA

73-74, 78, 8 - 02

JA

MORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	23.5	52.8	53.3	54.7	56.6	56.6	57.6	57.6	57.6	58.5	59.4	59.4	59.4	59.4	59.4	59.4
IV 20000	24.5	54.7	55.7	56.6	58.5	58.5	59.4	60.4	60.4	61.3	62.3	62.3	62.3	62.3	62.3	62.3
IV 18000	24.5	54.7	56.6	57.6	59.4	59.4	61.3	61.3	61.3	62.3	63.2	63.2	63.2	63.2	63.2	63.2
IV 16000	24.5	54.7	56.6	57.6	59.4	59.4	61.3	61.3	61.3	62.3	63.2	63.2	63.2	63.2	63.2	63.2
IV 14000	24.5	55.7	57.6	58.5	60.4	60.4	62.3	62.3	62.3	63.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 12000	24.5	55.7	57.6	58.5	60.4	60.4	62.3	62.3	62.3	63.2	64.2	64.2	64.2	64.2	64.2	64.2
IV 10000	24.5	57.6	59.4	60.4	62.3	62.3	64.2	64.2	64.2	65.1	66.0	66.0	66.0	66.0	66.0	66.0
IV 9000	24.5	57.6	59.4	60.4	62.3	62.3	64.2	64.2	64.2	65.1	66.0	66.0	66.0	66.0	66.0	66.0
IV 8000	25.5	57.6	61.3	62.3	64.2	64.2	66.0	66.0	66.0	67.0	67.9	67.9	67.9	67.9	67.9	67.9
IV 7000	25.5	57.6	61.3	62.3	64.2	64.2	66.0	66.0	66.0	67.0	67.9	67.9	67.9	67.9	67.9	67.9
IV 6000	26.4	62.3	64.2	65.1	67.0	67.0	68.9	68.9	68.9	69.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 5000	26.4	62.3	64.2	65.1	67.0	67.0	68.9	68.9	68.9	69.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 4500	26.4	62.3	64.2	65.1	67.0	67.0	68.9	68.9	68.9	69.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 4000	27.4	65.1	67.0	67.9	69.8	69.8	71.7	71.7	71.7	72.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 3500	30.2	67.9	69.8	70.8	72.6	72.6	74.5	74.5	74.5	75.5	76.4	76.4	76.4	76.4	76.4	76.4
IV 3000	31.1	68.9	70.8	71.7	73.6	73.6	75.5	75.5	75.5	76.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 2500	34.0	75.5	77.4	78.3	80.2	80.2	82.1	82.1	82.1	83.0	84.0	84.0	84.0	84.0	84.0	84.0
IV 2000	37.7	81.1	83.0	84.0	85.9	85.9	87.7	87.7	87.7	88.7	89.6	89.6	89.6	89.6	89.6	89.6
IV 1800	37.7	81.1	83.0	84.0	85.9	85.9	87.7	87.7	87.7	88.7	89.6	89.6	89.6	89.6	89.6	89.6
IV 1500	37.7	84.0	85.9	86.8	88.7	88.7	90.6	90.6	90.6	91.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1200	37.7	84.0	87.7	88.7	90.6	90.6	92.5	92.5	92.5	93.4	94.3	94.3	94.3	94.3	94.3	94.3
IV 1000	37.7	86.8	91.6	92.5	94.3	94.3	96.2	96.2	96.2	97.2	98.1	98.1	98.1	98.1	98.1	98.1
IV 900	37.7	86.8	91.6	92.5	94.3	94.3	96.2	96.2	96.2	97.2	98.1	98.1	98.1	98.1	98.1	98.1
IV 800	37.7	86.8	91.6	92.5	94.3	94.3	96.2	96.2	96.2	97.2	98.1	98.1	98.1	98.1	98.1	98.1
IV 700	37.7	86.8	91.6	92.5	94.3	94.3	96.2	96.2	96.2	97.2	98.1	98.1	98.1	98.1	98.1	98.1
IV 600	37.7	86.8	91.6	92.5	94.3	94.3	96.2	96.2	96.2	97.2	98.1	98.1	98.1	98.1	98.1	98.1
IV 500	37.7	86.8	91.6	93.4	95.3	95.3	97.2	97.2	97.2	98.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 400	37.7	86.8	91.6	93.4	95.3	95.3	97.2	97.2	97.2	98.1	99.1	99.1	99.1	99.1	99.1	99.1
IV 300	37.7	86.8	90.6	93.4	96.2	96.2	98.1	98.1	98.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	37.7	86.8	90.6	93.4	96.2	96.2	98.1	98.1	98.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	37.7	86.8	90.6	93.4	96.2	96.2	98.1	98.1	98.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	37.7	86.8	91.6	93.4	96.2	96.2	98.1	98.1	98.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 106

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	44.7	51.5	59.7	63.0	61.5	61.8	62.3	62.5	62.5	62.8	62.9	62.9	62.9	62.9	62.9	62.9
IV 20000	44.3	52.2	64.3	65.7	66.9	67.2	67.8	68.1	68.1	68.4	68.5	68.5	68.5	68.5	68.5	68.5
IV 18000	42.5	62.5	64.7	66.1	67.2	67.6	68.2	68.5	68.5	68.8	68.9	68.9	68.9	68.9	68.9	68.9
IV 16000	42.6	62.5	64.7	66.1	67.2	67.6	68.3	68.5	68.5	68.9	68.9	68.9	68.9	68.9	68.9	68.9
IV 14000	47.1	63.2	65.4	66.7	68.1	68.3	69.1	69.3	69.3	69.6	69.7	69.7	69.7	69.7	69.7	69.7
IV 12000	42.6	62.8	66.0	67.5	68.6	68.9	69.6	69.9	69.9	70.2	70.3	70.3	70.4	70.4	70.4	70.4
IV 10000	51.7	65.5	67.7	69.2	70.4	70.7	71.5	71.7	71.7	72.1	72.2	72.2	72.2	72.2	72.2	72.2
IV 9000	51.9	65.5	67.8	69.3	70.4	70.8	71.5	71.8	71.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 8000	62.6	67.8	71.1	71.6	72.9	73.2	73.9	74.2	74.2	74.5	74.6	74.6	74.7	74.7	74.7	74.7
IV 7000	62.9	68.2	70.5	72.0	73.2	73.6	74.3	74.6	74.6	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 6000	63.2	68.7	71.1	72.6	73.7	74.1	74.9	75.2	75.2	75.5	75.6	75.6	75.6	75.6	75.6	75.6
IV 5000	64.7	69.5	71.9	73.4	74.5	75.0	75.7	76.0	76.0	76.3	76.4	76.4	76.5	76.5	76.5	76.5
IV 4500	64.3	69.9	72.3	73.8	75.0	75.4	76.1	76.4	76.4	76.7	76.8	76.8	76.9	76.9	76.9	76.9
IV 4000	65.1	70.1	72.5	74.0	75.1	75.5	76.4	76.6	76.6	77.0	77.0	77.0	77.1	77.1	77.1	77.1
IV 3500	74.1	76.6	78.2	79.3	79.7	80.6	80.8	80.8	81.2	81.2	81.2	81.3	81.3	81.3	81.3	81.3
IV 3000	60.3	70.7	79.4	81.0	82.2	82.6	83.4	83.7	83.7	84.1	84.1	84.1	84.2	84.2	84.2	84.2
IV 2500	67.5	79.8	82.5	84.0	85.3	85.7	86.6	87.0	87.0	87.4	87.4	87.4	87.5	87.5	87.5	87.5
IV 2000	64.4	82.9	85.6	87.2	88.5	89.1	90.0	90.3	90.3	90.7	90.7	90.7	90.8	90.8	90.8	90.8
IV 1800	64.6	83.1	85.9	87.5	88.8	89.4	90.2	90.1	90.5	91.0	91.1	91.1	91.1	91.1	91.1	91.1
IV 1500	65.7	85.3	88.4	90.1	91.6	92.2	93.1	93.4	93.4	93.8	93.9	93.9	93.9	93.9	93.9	93.9
IV 1200	66.0	86.1	89.6	91.3	93.0	93.6	94.5	94.8	94.8	95.2	95.3	95.3	95.4	95.4	95.4	95.4
IV 1000	66.4	87.2	90.9	92.6	94.9	95.4	96.3	96.7	96.7	97.1	97.1	97.1	97.2	97.2	97.2	97.2
IV 900	66.4	87.2	90.9	92.6	94.9	95.5	96.5	96.8	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3
IV 800	66.4	87.2	90.9	92.6	95.1	95.7	96.7	97.0	97.0	97.5	97.5	97.5	97.6	97.6	97.6	97.6
IV 700	66.4	87.3	91.0	92.7	95.3	95.9	96.9	97.3	97.3	97.8	97.8	97.8	97.9	97.9	97.9	97.9
IV 600	66.4	87.3	91.0	92.7	95.1	95.6	96.5	97.4	97.8	98.4	98.4	98.4	98.6	98.6	98.6	98.6
IV 500	66.4	87.3	91.1	92.8	95.4	96.8	97.9	98.3	98.3	98.9	99.0	99.0	99.0	99.0	99.0	99.0
IV 400	66.4	87.3	91.1	92.8	95.4	96.9	98.0	98.4	98.4	99.0	99.0	99.0	99.1	99.1	99.1	99.1
IV 300	66.4	87.4	91.2	93.5	96.0	97.0	98.1	98.5	98.5	99.2	99.3	99.3	99.4	99.4	99.4	99.4
IV 200	66.4	87.4	91.2	93.5	96.0	97.0	98.1	98.5	98.5	99.3	99.3	99.3	99.5	99.5	99.5	99.5
IV 100	66.4	87.4	91.2	93.5	96.0	97.0	98.1	98.5	98.5	99.3	99.3	99.3	99.5	99.5	99.5	99.5
IV 0	66.4	87.4	91.2	93.5	96.0	97.0	98.1	98.5	98.5	99.3	99.3	99.3	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

1465

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

02
HOURS (L & Y)

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

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHCVILLE, NC

CEILING VERSUS VISIBILITY

STATION INDIERIAL BEACH, CALIFORNIA

YEARS 73

MONTH FEB

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T) 24

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

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

67
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0		
NO CEILING	41.7	53.6	56.8	57.2	58.7	58.9	59.5	62.0	62.0	62.6	62.6	62.6	62.6	62.6	63.7	63.7
IV 20000	43.2	50.0	55.3	54.7	61.5	61.3	63.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4	65.4
IV 18000	43.2	50.0	55.3	54.7	61.5	61.3	63.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4	65.4
IV 16000	43.2	50.0	55.3	54.7	61.5	61.3	63.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4	65.4
IV 14000	43.2	50.0	55.3	54.7	61.5	61.3	63.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.4	65.4
IV 12000	44.0	60.1	61.3	61.7	62.6	63.4	65.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5
IV 10000	44.0	60.1	61.3	61.7	62.6	63.4	65.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5
IV 9000	44.0	60.1	61.3	61.7	62.6	63.4	65.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5
IV 8000	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1	69.1
IV 7000	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1	69.1
IV 6000	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1	69.1
IV 5000	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1	69.1
IV 4500	46.5	61.7	63.0	63.4	64.2	65.0	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	69.1	69.1
IV 4000	47.7	63.0	64.2	64.6	65.4	66.3	67.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.4	70.4
IV 3500	49.2	63.4	65.0	65.4	66.3	67.1	68.7	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.2	71.2
IV 3000	49.4	66.3	68.3	69.2	70.0	70.8	72.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.9	75.3
IV 2500	51.4	67.1	71.2	71.2	72.9	73.7	75.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.8	78.2
IV 2000	53.7	71.0	74.1	74.9	75.7	76.5	78.2	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.1	81.5
IV 1800	53.7	71.0	74.1	74.9	75.7	76.5	78.2	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.1	81.5
IV 1500	55.1	74.5	77.8	78.6	79.4	80.3	82.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	85.2	85.6
IV 1200	55.1	74.5	77.8	78.6	79.4	80.3	82.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	85.2	85.6
IV 1000	55.1	74.5	77.8	78.6	79.4	80.3	82.3	84.8	84.8	84.8	84.8	84.8	84.8	84.8	85.2	85.6
IV 900	55.6	77.4	79.8	81.9	83.5	84.4	87.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	92.2	92.6
IV 800	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	94.7
IV 700	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	95.1
IV 600	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	95.1
IV 500	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	95.5
IV 400	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	95.5
IV 300	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	95.5
IV 200	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	95.5
IV 100	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	96.7
IV 0	55.6	77.4	80.7	82.7	84.4	85.6	89.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	94.7	96.7

TOTAL NUMBER OF OBSERVATIONS 243

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION: IMPERIAL BEACH, CALIFORNIA

YEARS: 73-82

MONTH: FEB

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	≥ ¾	≥ ¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	44.4	50.2	55.9	57.1	59.8	60.5	61.3	62.5	62.5	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 20000	48.7	60.9	62.5	63.6	66.3	67.4	68.2	69.4	69.4	70.1	70.1	70.1	70.1	70.1	70.1	70.1
IV 18000	48.7	60.9	62.5	63.6	66.3	67.8	68.6	69.7	69.7	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IV 16000	48.7	60.9	62.5	63.6	66.3	67.8	68.6	69.7	69.7	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IV 14000	49.8	62.1	64.0	65.1	67.8	69.4	70.1	71.3	71.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 12000	51.0	63.2	65.5	66.7	69.4	70.9	71.7	72.8	72.8	74.0	74.3	74.3	74.3	74.3	74.3	74.3
IV 10000	51.3	64.0	66.7	67.6	70.9	72.4	73.2	74.3	74.3	75.5	75.9	75.9	75.9	75.9	75.9	75.9
IV 9000	51.3	64.0	66.7	67.6	70.9	72.4	73.2	74.3	74.3	75.5	75.9	75.9	75.9	75.9	75.9	75.9
IV 8000	52.1	64.8	67.8	69.0	72.0	73.6	74.3	75.5	75.5	76.6	77.0	77.0	77.0	77.0	77.0	77.0
IV 7000	52.1	64.8	67.8	69.0	72.0	73.6	74.3	75.5	75.5	76.6	77.0	77.0	77.0	77.0	77.0	77.0
IV 6000	52.5	65.1	68.2	69.4	72.4	74.0	74.7	75.9	75.9	77.0	77.4	77.4	77.4	77.4	77.4	77.4
IV 5000	52.9	65.5	69.0	70.1	73.2	74.7	75.5	76.6	76.6	77.8	78.2	78.2	78.2	78.2	78.2	78.2
IV 4500	52.9	65.5	69.0	70.1	73.2	74.7	75.5	76.6	76.6	77.8	78.2	78.2	78.2	78.2	78.2	78.2
IV 4000	53.3	65.9	69.4	70.5	73.6	75.1	75.9	77.0	77.0	78.2	78.5	78.5	78.5	78.5	78.5	78.5
IV 3500	54.4	67.1	70.9	72.0	75.1	76.6	77.4	78.5	78.5	79.7	80.1	80.1	80.1	80.1	80.1	80.1
IV 3000	56.7	69.7	73.6	74.7	77.8	79.3	80.1	81.2	81.2	82.4	82.8	82.8	82.8	82.8	82.8	82.8
IV 2500	59.0	72.0	75.9	77.0	80.1	81.6	82.4	83.5	83.5	84.7	85.1	85.1	85.1	85.1	85.1	85.1
IV 2000	59.0	72.0	75.9	77.0	80.1	81.6	82.4	83.5	83.5	84.7	85.1	85.1	85.1	85.1	85.1	85.1
IV 1800	59.0	72.0	75.9	77.0	80.1	81.6	82.4	83.5	83.5	84.7	85.1	85.1	85.1	85.1	85.1	85.1
IV 1500	61.3	75.9	80.1	81.6	85.4	87.0	87.7	88.9	88.9	90.0	90.4	90.4	90.4	90.4	90.4	90.4
IV 1200	61.7	77.0	81.2	82.4	86.6	88.1	88.9	90.0	90.0	91.2	91.6	91.6	91.6	91.6	91.6	91.6
IV 1000	63.2	78.9	83.1	84.3	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
IV 900	63.2	78.9	83.1	84.3	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
IV 800	63.2	78.9	83.1	84.3	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
IV 700	63.2	78.9	83.1	84.3	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
IV 600	63.2	78.9	83.1	84.3	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
IV 500	63.2	78.9	83.1	84.3	89.7	91.6	92.3	93.5	93.5	94.6	95.0	95.0	95.0	95.0	95.0	95.0
IV 400	63.6	79.7	84.3	87.7	92.0	93.9	94.6	97.3	97.3	98.5	99.2	99.2	99.6	99.6	99.6	99.6
IV 300	63.6	79.7	84.3	87.7	92.0	93.9	94.6	97.3	97.3	98.5	99.2	99.2	99.6	99.6	99.6	99.6
IV 200	63.6	79.7	84.3	87.7	92.0	93.9	94.6	97.3	97.3	98.5	99.2	99.2	99.6	99.6	99.6	99.6
IV 100	63.6	79.7	84.3	87.7	92.0	93.9	94.6	97.3	97.3	98.5	99.2	99.2	99.6	99.6	99.6	99.6
IV 0	63.6	79.7	84.3	87.7	92.0	93.9	94.6	97.3	97.3	98.5	99.2	99.2	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS

261

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

13-32

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	51.3	55.9	65.1	65.7	67.4	68.2	69.4	70.1	70.1	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IV 20000	53.6	64.0	68.2	69.7	71.7	72.4	74.0	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 18000	53.6	64.0	68.2	69.7	71.7	72.4	74.0	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 16000	53.6	64.0	68.2	69.7	71.7	72.4	74.0	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 14000	54.0	64.8	69.0	70.5	72.8	73.6	75.1	75.9	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3
IV 12000	55.0	66.7	70.9	72.6	75.1	75.9	77.4	78.2	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 10000	57.1	67.6	72.0	74.0	76.3	77.0	78.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 9000	57.1	67.6	72.0	74.0	76.3	77.0	78.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 8000	57.1	67.6	72.0	74.0	76.3	77.0	78.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 7000	57.1	67.6	72.0	74.0	76.3	77.0	78.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 6000	59.7	70.1	74.3	76.3	78.5	79.3	80.8	81.6	81.6	82.0	82.0	82.0	82.0	82.0	82.0	82.0
IV 5000	59.7	70.1	74.3	76.3	78.5	79.3	80.8	81.6	81.6	82.4	82.4	82.8	82.8	82.8	82.8	82.8
IV 4500	59.7	70.1	74.3	76.3	78.5	79.3	80.8	81.6	81.6	82.4	82.4	82.8	82.8	82.8	82.8	82.8
IV 4000	60.9	72.0	76.3	78.2	80.5	81.2	82.8	83.5	83.5	83.9	83.9	83.9	83.9	83.9	83.9	83.9
IV 3500	62.9	74.0	78.2	80.1	82.4	83.1	84.7	85.4	85.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 3000	64.0	75.1	79.3	81.2	83.5	84.3	85.8	86.6	86.6	87.0	87.0	87.0	87.0	87.0	87.0	87.0
IV 2500	65.5	77.0	81.2	83.1	85.8	86.6	88.1	88.9	88.9	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 2000	67.6	79.3	83.9	85.8	88.5	89.3	90.8	91.6	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1800	67.6	79.3	83.9	85.8	88.5	89.3	90.8	91.6	91.6	92.0	92.0	92.0	92.0	92.0	92.0	92.0
IV 1500	69.4	81.6	86.2	88.1	90.8	91.6	93.1	93.9	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3
IV 1200	69.7	83.1	87.7	89.7	92.3	93.1	95.0	95.8	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 1000	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 900	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 800	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 700	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 600	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 500	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 400	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 300	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 200	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 100	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5
IV 0	70.5	85.1	89.7	91.6	94.3	95.0	96.9	97.7	97.7	98.1	98.1	98.5	98.5	98.5	98.5	98.5

TOTAL NUMBER OF OBSERVATIONS

251

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

FEB

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ ⅓/16	≥ ¼	≥ 0
NO CEILING	57.8	57.4	67.9	61.7	63.3	63.7	64.8	64.8	64.9	64.8	65.6	65.6	65.6	65.6	65.6	65.6
≥ 20000	54.7	60.4	68.8	69.9	71.9	72.3	73.4	73.4	73.4	73.4	74.2	74.2	74.2	74.2	74.2	74.2
IV 18000	54.7	66.4	68.8	69.9	71.9	72.3	73.4	73.4	73.4	73.4	74.2	74.2	74.2	74.2	74.2	74.2
IV 16000	54.7	66.4	68.8	69.9	71.9	72.3	73.4	73.4	73.4	73.4	74.2	74.2	74.2	74.2	74.2	74.2
IV 14000	54.7	66.8	69.5	71.1	73.1	73.4	74.6	74.6	74.6	74.6	75.4	75.4	75.4	75.4	75.4	75.4
IV 12000	57.8	69.9	72.7	74.2	76.2	76.6	77.7	77.7	77.7	77.7	78.5	78.5	78.5	78.5	78.5	78.5
IV 10000	59.7	71.1	73.8	75.4	77.3	77.7	78.9	78.9	78.9	78.9	79.7	79.7	79.7	79.7	79.7	79.7
IV 9000	59.7	71.1	73.8	75.4	77.3	77.7	78.9	78.9	78.9	78.9	79.7	79.7	79.7	79.7	79.7	79.7
IV 8000	60.6	72.7	75.4	77.0	78.9	79.3	80.5	80.5	80.5	80.5	81.3	81.3	81.3	81.3	81.3	81.3
IV 7000	60.9	73.4	76.2	77.7	79.7	80.1	81.3	81.3	81.3	81.3	82.1	82.1	82.1	82.1	82.1	82.1
IV 6000	62.1	74.6	77.3	78.9	80.9	81.3	82.4	82.4	82.4	82.4	83.2	83.2	83.2	83.2	83.2	83.2
IV 5000	62.9	75.8	78.9	80.5	82.4	82.8	84.0	84.0	84.0	84.0	84.8	84.8	84.8	84.8	84.8	84.8
IV 4500	62.9	75.8	78.9	80.5	82.4	82.8	84.0	84.0	84.0	84.0	84.8	84.8	84.8	84.8	84.8	84.8
IV 4000	63.3	76.2	79.7	81.3	83.2	83.6	84.8	84.8	84.8	84.8	85.6	85.6	85.6	85.6	85.6	85.6
IV 3500	63.3	76.2	79.7	81.3	83.2	83.6	84.8	84.8	84.8	84.8	85.6	85.6	85.6	85.6	85.6	85.6
IV 3000	64.5	77.3	80.9	82.4	84.4	85.2	86.3	86.3	86.3	86.3	87.1	87.1	87.1	87.1	87.1	87.1
IV 2500	66.4	79.7	83.2	84.8	86.7	87.5	88.7	88.7	88.7	88.7	89.5	89.5	89.5	89.5	89.5	89.5
IV 2000	66.8	80.5	84.4	85.6	87.5	88.3	89.5	89.5	89.5	89.5	90.2	90.2	90.2	90.2	90.2	90.2
IV 1800	66.8	80.9	84.4	85.9	87.9	88.7	89.8	89.8	89.8	89.8	90.6	90.6	90.6	90.6	90.6	90.6
IV 1500	69.8	83.2	87.1	88.7	91.0	91.6	93.0	93.0	93.0	93.0	93.8	93.8	93.8	93.8	93.8	93.8
IV 1200	69.1	84.4	88.3	89.8	92.2	93.0	94.1	94.1	94.1	94.1	94.9	94.9	94.9	94.9	94.9	94.9
IV 1000	69.5	85.2	89.1	90.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
IV 900	69.5	85.2	89.1	90.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
IV 800	69.5	85.2	89.1	90.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
IV 700	69.5	85.2	89.1	90.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
IV 600	69.5	85.2	89.1	90.6	93.0	93.8	94.9	94.9	94.9	94.9	95.7	95.7	95.7	95.7	95.7	95.7
IV 500	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
IV 400	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
IV 300	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
IV 200	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
IV 100	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1
IV 0	69.5	85.6	89.5	91.0	93.4	94.5	95.7	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS 256

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-92

YEARS

FLB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L S Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	38.6	58.1	59.5	61.9	63.3	64.2	65.6	66.1	66.1	66.1	67.0	67.0	67.0	67.0	67.0	67.0
IV 20000	32.5	61.9	63.3	65.6	67.0	67.9	69.3	69.8	69.8	69.8	70.7	70.7	70.7	70.7	70.7	70.7
IV 18000	35.5	61.9	63.3	65.6	67.0	67.9	69.3	69.8	69.8	69.8	70.7	70.7	70.7	70.7	70.7	70.7
IV 16000	39.5	61.9	63.3	65.6	67.0	67.9	69.3	69.8	69.8	69.8	70.7	70.7	70.7	70.7	70.7	70.7
IV 14000	39.5	61.9	63.7	66.1	67.4	68.4	69.8	70.2	70.2	70.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 12000	47.5	62.8	64.7	67.0	68.4	69.3	70.7	71.2	71.2	71.2	72.1	72.1	72.1	72.1	72.1	72.1
IV 10000	42.3	65.6	67.4	69.8	71.2	72.1	73.5	74.0	74.0	74.0	74.9	74.9	74.9	74.9	74.9	74.9
IV 9000	42.3	65.6	67.4	69.8	71.2	72.1	73.5	74.0	74.0	74.0	74.9	74.9	74.9	74.9	74.9	74.9
IV 8000	43.7	67.4	69.3	71.6	73.0	74.0	75.4	75.8	75.8	75.8	76.7	76.7	76.7	76.7	76.7	76.7
IV 7000	44.2	67.9	69.8	72.1	73.5	74.4	75.8	76.3	76.3	76.3	77.2	77.2	77.2	77.2	77.2	77.2
IV 6000	44.2	67.9	69.8	72.1	73.5	74.4	75.8	76.3	76.3	76.3	77.2	77.2	77.2	77.2	77.2	77.2
IV 5000	44.2	68.4	70.2	72.6	74.0	74.9	76.3	76.7	76.7	76.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 4500	44.2	68.4	70.2	72.6	74.0	74.9	76.3	76.7	76.7	76.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 4000	44.7	68.8	70.7	73.0	74.4	75.4	76.7	77.2	77.2	77.2	78.1	78.1	78.1	78.1	78.1	78.1
IV 3500	45.6	69.8	71.6	74.0	75.4	76.3	77.7	78.1	78.1	78.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 3000	46.5	71.6	73.5	75.8	77.2	78.1	79.5	80.0	80.0	80.0	80.9	80.9	80.9	80.9	80.9	80.9
IV 2500	47.4	74.0	75.8	78.1	79.5	80.5	81.9	82.3	82.3	82.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 2000	49.3	77.2	79.1	81.4	83.3	84.2	85.6	86.1	86.1	86.1	87.0	87.0	87.0	87.0	87.0	87.0
IV 1800	47.3	77.2	79.1	81.4	83.3	84.2	85.6	86.1	86.1	86.1	87.0	87.0	87.0	87.0	87.0	87.0
IV 1500	50.7	81.4	83.3	86.1	87.9	88.8	90.2	90.7	90.7	90.7	91.6	91.6	91.6	91.6	91.6	91.6
IV 1200	51.2	83.3	85.1	87.9	89.8	90.7	92.1	92.6	92.6	92.6	93.5	93.5	93.5	93.5	93.5	93.5
IV 1000	51.2	84.7	87.0	89.8	92.1	93.0	94.4	94.9	94.9	94.9	95.8	95.8	95.8	95.8	95.8	95.8
IV 900	51.2	84.7	87.0	89.8	92.1	93.0	94.4	94.9	94.9	94.9	95.8	95.8	95.8	95.8	95.8	95.8
IV 800	51.6	85.1	87.4	90.2	92.6	93.5	94.9	95.4	95.4	95.4	96.3	96.3	96.3	96.3	96.3	96.3
IV 700	51.6	85.1	87.9	90.7	93.5	94.4	95.8	96.3	96.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2
IV 600	51.6	85.1	87.9	90.7	93.5	94.4	95.8	96.3	96.3	96.3	97.2	97.2	97.2	97.2	97.2	97.2
IV 500	51.6	85.6	88.4	91.2	94.0	95.4	96.7	97.2	97.2	97.2	98.1	98.1	98.1	98.1	98.1	98.1
IV 400	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.0	99.0	99.0	99.0	99.0	99.0
IV 300	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.0	99.0	99.0	99.0	99.0	99.0
IV 200	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.0	99.0	99.0	99.0	99.0	99.0
IV 100	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.0	99.0	99.0	99.0	99.0	99.0
IV 0	52.1	86.5	89.3	92.1	94.9	96.3	97.7	98.1	98.1	98.1	99.0	99.0	99.0	99.0	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 215

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-74, 76, 8, -02

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.8	52.5	54.7	57.9	57.9	57.9	61.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 20000	16.2	52.6	57.9	61.1	61.1	61.1	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IV 18000	16.8	52.6	57.9	61.1	61.1	61.1	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IV 16000	16.8	52.6	57.9	61.1	61.1	61.1	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IV 14000	16.8	52.6	57.9	61.1	61.1	61.1	64.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IV 12000	17.5	53.7	59.4	62.1	62.1	62.1	65.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
IV 10000	19.1	54.7	60.0	63.2	63.2	63.2	66.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
IV 9000	19.0	54.7	60.0	63.2	63.2	63.2	66.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
IV 8000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 7000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 6000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 5000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 4500	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 4000	21.1	57.9	63.2	66.3	66.3	66.3	69.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 3500	24.2	62.1	67.4	70.5	70.5	70.5	73.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
IV 3000	27.4	67.4	72.6	75.8	75.8	75.8	79.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 2500	27.4	68.4	73.7	76.8	76.8	76.8	80.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 2000	27.4	71.6	76.8	80.0	80.0	80.0	83.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV 1800	27.4	71.6	76.8	80.0	80.0	80.0	83.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV 1500	27.4	73.7	80.0	83.2	83.2	83.2	86.3	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 1200	27.4	76.8	83.2	86.3	86.3	86.3	89.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 1000	27.4	80.0	86.3	89.5	89.5	89.5	92.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 900	27.4	80.0	86.3	89.5	89.5	89.5	92.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 800	28.4	81.1	87.4	90.5	90.5	90.5	93.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 700	28.4	81.1	87.4	90.5	90.5	90.5	93.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 600	28.4	81.1	87.4	90.5	90.5	90.5	93.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 500	28.4	81.1	87.4	90.5	90.5	90.5	93.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
IV 400	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 300	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 200	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 100	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 0	28.4	82.1	88.4	92.6	92.6	92.6	96.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0

TOTAL NUMBER OF OBSERVATIONS

95

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

FEH

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¾	≥ 0
NO CEILING	43.3	57.4	59.4	60.0	62.1	62.8	64.1	65.1	65.1	65.3	65.6	65.6	65.6	65.6	65.7	65.7
IV 20000	46.1	61.6	64.0	65.5	67.1	67.9	69.3	70.3	70.3	70.5	70.8	70.8	70.8	70.8	70.9	70.9
IV 18000	46.1	61.6	64.0	65.5	67.1	67.9	69.4	70.4	70.4	70.6	70.9	70.9	70.9	70.9	71.0	71.0
IV 16000	46.1	61.6	64.0	65.5	67.1	67.9	69.4	70.4	70.4	70.6	70.9	70.9	70.9	70.9	71.0	71.0
IV 14000	46.5	62.2	64.8	66.3	68.0	68.8	70.3	71.3	71.3	71.6	71.9	71.9	71.9	71.9	71.9	71.9
IV 12000	49.1	63.9	66.6	68.2	69.9	70.7	72.2	73.1	73.1	73.4	73.8	73.8	73.8	73.8	73.9	73.9
IV 10000	49.0	65.0	67.8	69.4	71.2	72.0	73.4	74.4	74.4	74.7	75.1	75.1	75.1	75.1	75.2	75.2
IV 9000	49.0	65.0	67.8	69.4	71.2	72.0	73.4	74.4	74.4	74.7	75.1	75.1	75.1	75.1	75.2	75.2
IV 8000	50.3	66.5	69.4	71.0	72.8	73.6	75.0	76.0	76.0	76.3	76.7	76.7	76.7	76.7	76.7	76.7
IV 7000	50.5	66.7	69.6	71.2	73.0	73.8	75.2	76.2	76.2	76.5	76.9	76.9	76.9	76.9	77.0	77.0
IV 6000	51.0	67.3	70.1	71.7	73.5	74.3	75.8	76.7	76.7	77.0	77.4	77.4	77.4	77.4	77.5	77.5
IV 5000	51.0	67.3	70.1	71.7	73.5	74.3	75.8	76.7	76.7	77.0	77.4	77.4	77.4	77.4	77.5	77.5
IV 4500	51.4	67.9	70.9	72.5	74.3	75.1	76.5	77.5	77.5	77.8	78.2	78.2	78.2	78.2	78.2	78.2
IV 4000	52.0	68.5	71.6	73.1	74.9	75.8	77.2	78.2	78.2	78.5	78.8	78.8	78.8	78.8	78.9	78.9
IV 3500	53.1	67.6	72.8	74.4	76.2	77.0	78.5	79.4	79.4	79.7	80.1	80.1	80.1	80.1	80.2	80.2
IV 3000	54.6	71.8	75.1	76.7	78.5	79.4	80.9	81.8	81.8	82.1	82.5	82.5	82.5	82.5	82.6	82.7
IV 2500	56.2	74.0	77.3	79.0	80.9	81.8	83.2	84.2	84.2	84.5	84.8	84.8	84.8	84.8	84.9	85.0
IV 2000	57.5	76.1	79.6	81.2	83.3	84.2	85.6	86.6	86.6	86.9	87.2	87.2	87.2	87.2	87.3	87.4
IV 1800	57.5	76.4	79.8	81.5	83.5	84.4	85.8	86.9	86.9	87.2	87.5	87.5	87.5	87.5	87.6	87.7
IV 1500	59.1	78.9	82.6	84.5	86.7	87.6	89.1	90.2	90.2	90.5	90.8	90.8	90.8	90.8	90.9	91.0
IV 1200	59.4	80.3	84.0	86.0	88.1	89.0	90.6	91.7	91.7	92.1	92.6	92.6	92.6	92.6	92.6	92.7
IV 1000	59.9	81.9	85.7	87.9	90.4	91.4	93.1	94.3	94.3	94.7	95.3	95.3	95.3	95.3	95.4	95.4
IV 900	60.1	82.1	85.9	88.1	90.5	91.5	93.2	94.5	94.5	95.0	95.5	95.5	95.5	95.5	95.6	95.7
IV 800	60.2	82.4	86.3	88.6	91.1	92.2	94.1	95.4	95.4	95.9	96.4	96.4	96.4	96.4	96.6	96.6
IV 700	60.2	82.4	86.4	88.7	91.2	92.3	94.2	95.5	95.5	96.0	96.6	96.6	96.6	96.7	96.8	96.9
IV 600	60.2	82.4	86.4	88.7	91.3	92.5	94.4	95.7	95.8	96.3	96.5	96.9	97.0	97.0	97.1	97.2
IV 500	60.2	82.6	86.6	89.0	91.7	92.9	94.8	96.3	96.3	96.8	97.5	97.5	97.7	97.7	97.8	97.8
IV 400	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.5	98.3	98.3	98.4	98.4	98.5	98.6
IV 300	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.5	98.4	98.4	98.6	98.6	98.7	98.7
IV 200	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.7	98.6	98.6	98.8	98.8	98.9	99.0
IV 100	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.7	98.6	98.6	98.9	98.9	99.3	99.3
IV 0	60.4	82.9	86.9	89.4	92.0	93.2	95.3	96.9	97.0	97.7	98.7	98.7	99.0	99.0	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 1332

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

YEARS

MONTH

03

HOURLY (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																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7 17
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

YEARS

MAP
NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (LST)

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

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

7
HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	33.5	46.2	48.7	49.1	50.2	50.9	51.3	51.3	51.3	51.6	52.0	52.0	52.0	52.0	53.1	53.1
≥ 20000	36.4	50.2	53.5	53.8	54.9	55.6	56.0	56.0	56.0	56.4	56.7	56.7	56.7	56.7	57.8	57.8
IV 18000	36.4	50.2	53.5	53.8	54.9	55.6	56.0	56.0	56.0	56.4	56.7	56.7	56.7	56.7	57.8	57.8
IV 16000	36.4	50.2	53.5	53.8	54.9	55.6	56.0	56.0	56.0	56.4	56.7	56.7	56.7	56.7	57.8	57.8
IV 14000	36.7	51.3	54.2	54.9	56.0	56.7	57.1	57.1	57.1	57.5	57.8	57.8	57.8	57.8	58.9	58.9
IV 12000	36.7	51.3	54.2	54.9	56.0	56.7	57.1	57.1	57.1	57.5	57.8	57.8	57.8	57.8	58.9	58.9
IV 10000	36.7	51.6	55.3	56.0	57.5	58.2	58.6	58.6	58.6	58.9	59.3	59.3	59.3	59.3	60.4	60.4
IV 9000	36.7	51.6	55.3	56.0	57.5	58.2	58.6	58.6	58.6	58.9	59.3	59.3	59.3	59.3	60.4	60.4
IV 8000	38.2	53.1	56.7	57.5	58.9	59.6	60.0	60.0	60.0	60.4	60.7	60.7	60.7	60.7	61.8	61.8
IV 7000	38.2	53.1	56.7	57.5	58.9	59.6	60.0	60.0	60.0	60.4	60.7	60.7	60.7	60.7	61.8	61.8
IV 6000	38.9	53.6	57.5	58.2	60.0	60.7	61.1	61.1	61.1	61.5	61.8	61.8	61.8	61.8	62.9	62.9
IV 5000	39.9	53.6	57.5	58.2	60.0	60.7	61.1	61.1	61.1	61.5	61.8	61.8	61.8	61.8	62.9	62.9
IV 4500	39.3	54.0	58.2	58.9	60.7	61.5	61.8	61.8	61.8	62.2	62.6	62.6	62.6	62.6	63.6	63.6
IV 4000	42.2	57.5	61.1	61.8	63.6	64.4	64.7	64.7	64.7	65.1	65.5	65.5	65.5	65.5	66.6	66.6
IV 3500	43.6	57.6	63.3	64.0	65.8	66.6	66.9	66.9	66.9	67.3	67.6	67.6	67.6	67.6	68.7	68.7
IV 3000	45.8	63.0	67.6	68.4	70.2	70.9	71.3	71.3	71.3	72.0	72.4	72.4	72.4	72.4	73.5	73.5
IV 2500	48.1	67.3	71.6	72.7	74.6	75.3	75.6	75.6	75.6	76.3	76.7	76.7	76.7	76.7	77.8	77.8
IV 2000	53.1	73.1	77.5	78.6	80.4	81.1	81.5	81.5	81.5	82.2	82.6	82.6	82.6	82.6	83.6	83.6
IV 1800	53.8	74.2	78.6	79.6	81.5	82.2	82.6	82.6	82.6	83.3	83.6	83.6	83.6	83.6	84.7	84.7
IV 1600	55.6	74.4	80.7	82.2	84.4	85.5	85.8	85.8	85.8	86.6	86.9	86.9	86.9	86.9	88.0	88.0
IV 1500	55.6	74.4	80.7	82.2	84.4	85.5	85.8	85.8	85.8	86.6	86.9	86.9	86.9	86.9	88.0	88.0
IV 1200	55.6	77.1	81.5	82.9	85.5	86.9	87.3	87.3	87.3	88.0	88.4	88.4	88.4	88.4	89.5	89.5
IV 1000	56.0	77.8	83.6	85.5	88.0	90.2	90.6	90.6	90.6	91.3	91.6	91.6	91.6	91.6	92.7	92.7
IV 900	56.0	78.2	84.4	86.2	88.7	90.9	91.3	91.3	91.3	92.0	92.4	92.4	92.4	92.4	93.5	93.5
IV 800	56.0	78.2	84.4	86.9	89.5	91.6	92.4	92.4	92.4	93.1	93.5	93.5	93.5	93.5	94.6	94.6
IV 700	56.0	78.6	85.1	87.3	90.2	92.4	93.1	93.1	93.1	93.8	94.2	94.2	94.2	94.2	95.3	95.3
IV 600	56.0	78.6	85.5	87.6	90.6	92.7	93.5	93.5	93.5	94.2	94.6	94.6	94.6	94.6	95.7	95.7
IV 500	56.0	78.6	85.5	87.6	90.6	93.1	94.2	94.2	94.2	94.9	95.3	95.3	95.3	95.3	96.4	96.4
IV 400	56.0	78.6	85.5	87.6	90.6	93.1	94.2	94.2	94.2	94.9	95.3	95.3	95.3	95.3	96.4	96.4
IV 300	56.0	78.6	85.5	87.6	90.6	93.1	94.2	94.2	94.2	94.9	95.3	95.3	95.3	95.3	96.4	96.4
IV 200	56.0	78.6	85.5	87.6	90.6	93.1	94.2	94.2	94.2	94.9	95.3	95.3	95.3	95.3	96.4	96.4
IV 100	56.0	78.6	85.5	87.6	90.6	93.1	94.2	94.2	94.2	94.9	95.3	95.3	95.3	95.3	96.4	96.4
IV 0	56.0	78.6	85.5	87.6	90.6	93.1	94.2	94.2	94.2	94.9	95.3	95.3	95.3	95.3	96.4	96.4

TOTAL NUMBER OF OBSERVATIONS 275

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-92

FAK
NORTH

STATION

STATION NAME

YEARS

HOURLY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0	
NO CEILING	45.2	53.6	56.9	57.9	59.6	59.9	60.3	60.3	60.3	60.3	60.6	60.6	60.6	60.6	60.6	60.6
≥ 2000	46.6	56.9	60.3	62.0	63.7	64.4	64.4	64.4	64.4	64.4	64.7	64.7	64.7	64.7	64.7	64.7
IV 1800	46.6	56.9	60.3	62.0	63.7	64.4	64.7	64.7	64.7	64.7	65.1	65.1	65.1	65.1	65.1	65.1
IV 1600	46.6	56.9	60.3	62.0	63.7	64.4	64.7	64.7	64.7	64.7	65.1	65.1	65.1	65.1	65.1	65.1
IV 1400	47.3	56.6	62.0	63.7	65.4	66.1	66.4	66.4	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8
IV 1200	48.0	57.3	63.4	65.1	66.8	67.5	67.8	67.8	67.8	67.8	68.2	68.2	68.2	68.2	68.2	68.2
IV 1000	49.3	57.6	63.7	65.4	67.1	67.8	68.2	68.2	68.2	68.2	68.5	68.5	68.5	68.5	68.5	68.5
IV 900	49.3	57.6	63.7	65.4	67.1	67.8	68.2	68.2	68.2	68.2	68.5	68.5	68.5	68.5	68.5	68.5
IV 800	49.3	57.6	63.7	65.4	67.1	67.8	68.2	68.2	68.2	68.2	68.5	68.5	68.5	68.5	68.5	68.5
IV 700	49.3	57.6	63.7	65.4	67.1	67.8	68.2	68.2	68.2	68.2	68.5	68.5	68.5	68.5	68.5	68.5
IV 600	49.3	57.6	63.7	65.4	67.1	67.8	68.2	68.2	68.2	68.2	68.5	68.5	68.5	68.5	68.5	68.5
IV 500	49.3	57.6	63.7	65.4	67.1	67.8	68.2	68.2	68.2	68.2	68.5	68.5	68.5	68.5	68.5	68.5
IV 450	51.4	63.0	67.1	69.6	70.6	71.2	71.6	71.6	71.6	71.6	71.9	71.9	71.9	71.9	71.9	71.9
IV 400	54.5	66.1	70.2	72.3	74.0	74.7	75.0	75.0	75.0	75.0	75.3	75.3	75.3	75.3	75.3	75.3
IV 350	56.5	68.2	72.3	74.3	76.0	76.7	77.1	77.1	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4
IV 300	59.6	71.6	75.7	77.7	79.5	80.1	80.5	80.5	80.5	80.5	80.8	80.8	80.8	80.8	80.8	80.8
IV 250	61.3	75.7	79.8	81.9	83.6	84.3	84.6	84.6	84.6	84.6	84.9	84.9	84.9	84.9	84.9	84.9
IV 200	64.7	79.8	84.6	86.6	88.4	89.1	89.4	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7
IV 180	65.1	80.1	84.9	87.3	89.0	89.7	90.1	90.1	90.1	90.1	90.4	90.4	90.4	90.4	90.4	90.4
IV 150	66.8	81.9	87.3	89.7	91.9	92.5	93.2	93.2	93.2	93.2	93.5	93.5	93.5	93.5	93.5	93.5
IV 120	67.1	82.2	88.0	90.8	92.8	93.5	94.2	94.5	94.5	94.5	94.9	94.9	94.9	94.9	94.9	94.9
IV 100	67.5	82.9	89.0	92.5	94.9	95.6	96.2	96.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9
IV 900	67.5	82.9	89.0	92.5	94.9	95.6	96.2	96.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9
IV 800	67.5	82.9	89.0	92.5	94.9	95.6	96.2	96.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9
IV 700	67.5	82.9	89.0	92.5	94.9	95.6	96.2	96.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9
IV 600	67.5	82.9	89.0	92.5	94.9	95.6	96.2	96.6	96.6	96.6	96.9	96.9	96.9	96.9	96.9	96.9
IV 500	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6
IV 400	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6
IV 300	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6
IV 200	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6
IV 100	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6
IV 0	67.8	83.2	90.1	93.5	96.6	97.3	98.0	98.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 92

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-80

STATION

STATION NAME

YEARS

MAP NORTH

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	≥ ¼	≥ 0
NO CEILING	52.7	52.3	64.0	64.7	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
IV 20000	55.9	67.1	69.2	69.9	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 18000	56.9	67.1	69.2	69.9	70.6	70.6	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 16000	55.9	67.1	69.2	69.9	70.6	70.6	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 14000	57.9	69.8	70.9	71.0	72.3	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 12000	58.2	69.5	71.9	72.6	73.3	73.3	73.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
IV 10000	59.6	71.2	74.0	74.7	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 9000	59.6	71.2	74.0	74.7	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 8000	60.3	72.3	75.0	75.7	76.4	76.4	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 7000	60.3	72.3	75.0	75.7	76.4	76.4	76.4	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 6000	61.0	73.3	75.7	76.4	77.1	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 5000	61.0	73.3	75.7	76.4	77.1	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 4500	61.0	73.3	75.7	76.4	77.1	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 4000	61.0	73.3	75.7	76.4	77.1	77.1	77.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 3500	62.3	75.3	78.1	78.8	79.5	79.5	79.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 3000	62.3	75.3	78.1	78.8	79.5	79.5	79.5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
IV 2500	64.4	77.4	80.1	80.8	81.5	81.5	81.5	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 2000	64.4	77.4	80.1	80.8	81.5	81.5	81.5	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 1800	65.8	81.9	84.6	85.3	86.0	86.0	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 1500	65.8	81.9	84.6	85.3	86.0	86.0	86.0	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 1200	71.6	85.3	88.0	88.7	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 1000	71.6	85.3	88.0	88.7	89.4	89.4	89.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 900	73.3	87.3	90.1	90.8	91.4	91.4	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 800	73.3	87.3	90.1	90.8	91.4	91.4	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 700	74.3	89.0	91.8	92.5	93.5	93.5	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 600	74.3	89.0	91.8	92.5	93.5	93.5	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 500	75.7	90.8	93.2	93.8	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 400	75.7	90.8	93.2	93.8	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 300	75.7	90.8	93.2	93.8	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 200	75.7	90.8	93.2	93.8	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 100	75.7	90.8	93.2	93.8	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 0	75.7	90.8	93.2	93.8	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6

TOTAL NUMBER OF OBSERVATIONS

57

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-77

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 20000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 18000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 16000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 14000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 12000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 10000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 9000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 8000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 7000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 6000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 5000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 4500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 4000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 3500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 3000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 2500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 2000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 1800	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 1500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 1200	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 1000	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 900	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 800	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 700	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 600	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 500	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 400	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 300	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 200	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 100	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV IV 0	54.1	62.2	62.9	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6

TOTAL NUMBER OF OBSERVATIONS

13

DIRNAVOCEANMET SMOS

NO 4150 438

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
IMPERIAL BEACH CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC OCT 83

94

UNCLASSIFIED

F/G 4/2

DU

The table consists of 10 columns and 10 rows. The first row contains some faint, illegible markings. The remaining 9 rows are almost entirely blacked out, obscuring the data. Only a few small white specks are visible within the grid cells.



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13 15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEAR

YEAR

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	48.7	63.9	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
IV 20000	50.8	63.7	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
IV 18000	50.8	64.1	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
IV 14000	50.8	64.9	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 12000	50.8	66.1	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
IV 10000	51.6	67.7	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 9000	51.6	67.7	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 8000	52.8	69.4	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 7000	53.2	71.0	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
IV 6000	54.4	71.8	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 5000	54.8	73.0	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 4500	55.2	73.4	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
IV 4000	57.7	76.6	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
IV 3500	58.1	77.0	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
IV 3000	59.3	79.8	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 2500	62.1	83.9	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 2000	65.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 1800	65.3	88.7	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 1500	69.2	92.3	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 1200	69.8	93.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IV 1000	69.8	95.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 900	69.8	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 800	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 700	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 600	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 500	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 400	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 300	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 200	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IV 100	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
0	69.8	96.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 293

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

2715
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74, 78-82
YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¼	≥ 0
NO CEILING ≥ 20000	38.9	55.0	55.0	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	56.5
IVV 18000 14000	38.9	56.5	56.5	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	58.0
IVV 14000 12000	38.9	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.8
IVV 10000 9000	38.9	58.8	58.8	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	60.3
IVV 8000 7000	39.7	60.3	60.3	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.8
IVV 6000 5000	40.5	63.4	63.4	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.9
IVV 4500 4000	42.0	65.7	65.7	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	67.2
IVV 3500 3000	42.8	67.2	67.2	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	68.7
IVV 2500 2000	48.9	76.3	77.1	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	78.6
IVV 1800 1500	51.2	80.9	81.7	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	83.2
IVV 1200 1000	55.7	87.0	87.8	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	90.1
IVV 900 800	55.7	94.7	95.4	96.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.5
IVV 700 600	55.7	94.7	95.4	96.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.5
IVV 500 400	55.7	94.7	95.4	96.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	98.5
IVV 300 200	55.7	95.4	96.2	97.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100.0
IVV 100 0	55.7	95.4	96.2	97.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 131

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MONTH

MAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0	
NO CEILING	46.1	56.9	58.5	59.1	59.8	60.0	60.1	60.1	60.1	60.1	60.2	60.3	60.3	60.3	60.3	60.5	60.6
W 20000	49.2	64.8	62.7	63.5	64.1	64.3	64.4	64.4	64.4	64.4	64.5	64.6	64.6	64.6	64.6	64.8	64.9
W 18000	49.2	60.8	62.7	63.5	64.1	64.4	64.5	64.6	64.6	64.6	64.8	64.8	64.8	64.8	64.8	65.0	65.0
W 16000	49.2	60.9	62.8	63.5	64.2	64.4	64.5	64.6	64.6	64.7	64.8	64.8	64.8	64.8	64.8	65.0	65.1
W 14000	49.7	62.1	64.0	64.8	65.3	65.8	65.9	65.9	65.9	66.0	66.1	66.1	66.1	66.1	66.1	66.3	66.4
W 12000	50.2	63.1	65.3	66.1	66.8	67.1	67.2	67.3	67.3	67.3	67.5	67.5	67.5	67.5	67.5	67.7	67.7
W 10000	50.9	64.2	66.4	67.2	67.9	68.2	68.3	68.4	68.4	68.4	68.6	68.6	68.6	68.6	68.6	68.8	68.8
W 9000	51.0	64.2	66.5	67.3	68.0	68.2	68.4	68.4	68.4	68.5	68.6	68.6	68.6	68.6	68.6	68.8	68.9
W 8000	52.1	65.8	68.0	68.8	69.5	69.8	69.9	70.0	70.0	70.0	70.2	70.2	70.2	70.2	70.2	70.4	70.4
W 7000	52.3	66.3	68.6	69.4	70.1	70.4	70.5	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.9	71.0
W 6000	52.7	66.8	69.0	69.8	70.6	70.9	71.0	71.1	71.1	71.1	71.3	71.3	71.3	71.3	71.3	71.5	71.5
W 5000	53.5	67.8	70.0	70.8	71.6	71.9	72.0	72.1	72.1	72.1	72.3	72.3	72.3	72.3	72.3	72.5	72.5
W 4000	54.0	68.4	70.7	71.5	72.3	72.5	72.7	72.7	72.7	72.8	72.9	72.9	72.9	72.9	72.9	73.1	73.2
W 3000	54.0	68.4	70.7	71.5	72.3	72.5	72.7	72.7	72.7	72.8	72.9	72.9	72.9	72.9	72.9	73.1	73.2
W 2000	55.4	70.7	73.0	73.8	74.6	74.9	75.0	75.1	75.1	75.2	75.3	75.3	75.3	75.3	75.3	75.5	75.5
W 1800	57.3	72.2	74.5	75.4	76.1	76.4	76.5	76.6	76.6	76.7	76.8	76.8	76.8	76.8	76.8	77.0	77.1
W 1600	59.8	75.6	78.0	78.8	79.6	79.9	80.0	80.1	80.1	80.2	80.3	80.3	80.3	80.3	80.3	80.5	80.6
W 1400	62.5	79.5	82.0	82.9	83.7	84.0	84.1	84.2	84.2	84.3	84.4	84.4	84.4	84.4	84.4	84.6	84.7
W 1200	65.4	83.2	85.8	86.7	87.5	87.8	88.0	88.1	88.1	88.2	88.3	88.3	88.3	88.3	88.3	88.5	88.6
W 1000	65.7	83.8	86.2	87.2	88.1	88.3	88.4	88.6	88.6	88.6	88.8	88.8	88.8	88.8	88.8	89.0	89.0
W 900	67.7	86.1	88.9	89.9	91.0	91.4	91.6	91.7	91.7	91.8	91.9	91.9	91.9	91.9	91.9	92.1	92.2
W 800	68.4	87.4	90.3	91.3	92.4	93.1	93.4	93.6	93.6	93.6	93.8	93.8	93.8	93.8	93.8	94.0	94.0
W 700	68.6	88.4	91.9	93.2	94.5	95.3	95.5	95.8	95.8	95.9	96.1	96.1	96.1	96.1	96.1	96.3	96.3
W 600	68.6	88.6	92.1	93.4	94.9	95.6	95.9	96.1	96.1	96.3	96.4	96.4	96.4	96.4	96.4	96.6	96.7
W 500	68.6	88.8	92.5	94.0	95.5	96.3	96.7	96.9	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.4	97.4
W 400	68.6	89.0	92.6	94.2	95.9	96.7	97.0	97.3	97.3	97.5	97.6	97.6	97.6	97.6	97.6	97.8	97.9
W 300	68.7	89.0	92.8	94.6	96.1	96.8	97.2	97.5	97.5	97.7	97.8	97.8	97.8	97.8	97.8	98.0	98.1
W 200	68.8	89.1	93.0	94.8	96.5	97.2	97.7	98.0	98.0	98.2	98.4	98.4	98.4	98.4	98.4	98.6	98.6
W 100	68.8	89.2	93.0	94.8	96.5	97.4	97.8	98.2	98.2	98.5	98.7	98.7	98.7	98.7	98.7	98.9	98.9
W 0	68.8	89.2	93.0	94.8	96.5	97.4	97.8	98.2	98.2	98.5	98.8	98.8	98.8	98.8	98.8	99.0	99.0
W 0	68.8	89.2	93.0	94.8	96.5	97.4	97.8	98.2	98.2	98.5	98.8	98.8	98.8	98.8	98.8	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 1521

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

78
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	≥ ¼	≥ 0
NO CEILING	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 20000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 18000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 16000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 14000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 12000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 10000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 9000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 8000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 7000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 6000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	33.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 3

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

74

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04

HOURS (L.S.T.)

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

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¾	≥ 0
NO CEILING	25.9	39.6	44.1	45.6	45.9	46.7	47.0	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 20000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IN 18000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IN 14000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IN 10000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IN 8000	26.7	41.9	46.3	47.8	48.2	48.9	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IN 7000	27.0	43.0	47.4	48.9	49.3	50.0	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
IN 6000	27.0	43.0	47.4	48.9	49.3	50.0	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IN 5000	27.4	43.7	48.2	49.6	50.0	50.7	51.1	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
IN 4500	28.2	44.8	49.3	50.7	51.1	51.9	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
IN 4000	28.5	45.6	50.0	51.5	51.9	52.6	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IN 3500	29.3	46.3	50.7	52.2	52.6	53.3	53.7	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IN 3000	30.7	48.9	53.3	54.8	55.2	55.9	56.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
IN 2500	37.0	56.3	61.1	63.0	63.3	64.1	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
IN 2000	41.9	63.7	68.9	70.7	71.5	72.2	72.6	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
IN 1800	42.6	64.8	70.0	71.9	72.6	73.3	73.7	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
IN 1500	45.6	70.0	76.3	78.2	78.9	79.6	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IN 1200	46.3	72.6	78.9	81.4	83.3	84.1	84.8	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IN 1000	46.7	74.8	81.9	84.1	86.3	87.8	88.9	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IN 900	46.7	74.8	81.9	84.1	86.3	87.8	88.9	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IN 800	47.0	75.9	83.3	85.9	89.3	90.7	91.9	93.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IN 700	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IN 600	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IN 500	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IN 400	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IN 300	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IN 200	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
IN 100	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
0	47.0	75.9	83.3	86.3	90.7	92.2	93.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4

TOTAL NUMBER OF OBSERVATIONS 270

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION 015 IMPERIAL BEACH, CALIFORNIA STATION NAME 73-82 YEARS APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
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	43.4	56.0	60.9	61.9	64.1	64.1	64.4	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	
≥ 20000	44.1	59.1	61.9	63.0	65.1	65.1	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	
18000	44.1	59.1	61.9	63.0	65.1	65.1	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	
16000	44.1	59.1	61.9	63.0	65.1	65.1	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	
14000	44.1	59.1	61.9	63.0	65.1	65.1	65.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	
12000	44.9	59.9	62.3	63.4	65.5	65.5	65.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	
10000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
9000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
8000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
7000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
6000	45.6	60.5	63.4	64.4	66.6	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	
5000	47.3	62.6	65.5	66.6	68.7	68.7	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	
4500	47.7	63.0	65.8	66.9	69.0	69.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	
4000	48.8	64.1	66.9	68.0	70.1	70.1	70.5	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	
3500	50.5	66.2	69.0	70.1	72.2	72.2	72.6	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	
3000	50.9	66.6	69.4	70.5	72.6	72.6	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	
2500	56.6	74.7	77.6	78.7	80.8	80.8	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	
2000	59.8	78.3	81.1	82.2	84.3	84.3	84.7	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	
1800	59.8	80.1	82.9	84.0	86.1	86.1	86.5	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	
1600	61.6	83.6	87.5	89.3	91.5	91.5	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	
1400	61.9	84.7	89.7	90.8	94.0	94.0	94.7	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	
1200	62.3	85.1	89.3	91.1	94.3	94.3	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
1000	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
900	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
800	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
700	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
600	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
500	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
400	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
300	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
200	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
100	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	
0	62.3	85.1	89.7	91.8	95.4	95.4	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	

TOTAL NUMBER OF OBSERVATIONS 201

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	54.5	69.0	72.2	75.1	76.2	76.2	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
≥ 20000	57.7	73.3	76.9	79.7	80.8	80.8	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IVIV 18000	57.7	73.3	76.9	79.7	80.8	80.8	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IVIV 16000	57.7	73.3	76.9	79.7	80.8	80.8	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IVIV 14000	58.3	73.7	77.2	80.1	81.1	81.1	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IVIV 12000	58.7	74.9	77.9	80.8	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IVIV 10000	59.1	74.7	78.3	81.1	82.2	82.2	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IVIV 9000	59.1	74.7	78.3	81.1	82.2	82.2	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
IVIV 8000	60.9	76.5	80.1	82.9	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IVIV 7000	61.6	77.2	80.8	83.6	84.7	84.7	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IVIV 6000	61.9	77.6	81.1	84.0	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IVIV 5000	61.9	77.6	81.1	84.0	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IVIV 4500	62.3	77.9	81.5	84.3	85.4	85.4	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
IVIV 4000	63.4	79.0	82.6	85.4	86.5	86.5	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IVIV 3500	64.4	80.1	83.6	86.5	87.5	87.5	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IVIV 3000	65.5	81.5	85.1	87.9	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IVIV 2500	69.0	85.1	88.6	91.5	92.5	92.5	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IVIV 2000	70.1	87.2	90.8	93.6	94.7	94.7	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IVIV 1800	70.5	87.5	91.1	94.0	95.0	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IVIV 1500	71.5	89.3	93.2	96.1	97.2	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IVIV 1200	71.5	90.0	94.0	96.8	97.9	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IVIV 1000	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVIV 900	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVIV 800	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVIV 700	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVIV 600	71.5	90.0	94.3	97.2	98.2	98.2	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IVIV 500	71.5	90.0	94.3	97.2	98.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IVIV 400	71.5	90.0	94.3	97.2	98.2	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IVIV 300	71.5	90.0	94.3	97.2	98.2	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 200	71.5	90.0	94.3	97.2	98.2	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 100	71.5	90.0	94.3	97.2	98.2	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 0	71.5	90.0	94.3	97.2	98.2	98.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 281

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
6395

STATION NAME
IMPERIAL BEACH, CALIFORNIA

YEARS
73-82

MONTH
APR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	59.1	69.9	71.8	72.5	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 20000	61.0	72.5	74.4	75.1	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 18000	61.0	72.5	74.4	75.1	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 14000	61.0	72.5	74.4	75.1	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 14000	62.5	74.0	75.8	76.6	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 12000	62.8	74.4	76.2	77.0	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 10000	63.6	75.1	77.0	77.7	78.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 9000	63.6	75.1	77.0	77.7	78.4	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
IV 8000	64.3	75.8	77.7	78.4	79.2	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 7000	65.1	76.6	78.4	79.2	79.9	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 4000	65.1	76.6	78.4	79.2	79.9	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 5000	65.8	77.3	79.2	79.9	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 4500	65.8	77.3	79.2	79.9	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
IV 4000	66.5	78.1	79.9	80.7	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 3500	67.7	79.6	81.4	82.2	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 3000	68.7	79.9	81.8	82.5	83.3	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
IV 2500	72.1	84.4	86.3	87.1	87.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
IV 2000	74.4	87.0	88.9	89.6	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 1800	74.4	87.0	88.9	89.6	90.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
IV 1500	76.2	90.3	92.2	92.9	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 1200	76.6	91.1	92.9	93.7	94.4	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
IV 1000	76.6	93.3	95.2	95.9	96.7	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 900	77.0	93.7	95.5	96.3	97.0	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 800	77.0	94.4	96.3	97.0	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 700	77.0	94.4	96.3	97.0	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 600	77.0	94.4	96.3	97.0	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 500	77.0	94.4	96.3	97.0	97.8	98.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
IV 400	77.3	94.8	97.0	97.8	98.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	77.3	94.8	97.0	97.8	98.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	77.3	94.8	97.0	97.8	98.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	77.3	94.8	97.0	97.8	98.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	77.3	94.8	97.0	97.8	98.5	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 269

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3.15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
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	≥ 5/16	≥ ¼	≥ 0	
NO CEILING	45.9	61.4	63.8	64.2	65.1	65.0	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.9	65.9	65.9
IV 20000	46.8	63.0	65.5	65.9	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.5
IV 18000	46.8	63.0	65.5	65.9	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.5
IV 16000	46.8	63.0	65.5	65.9	66.7	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.5	67.5	67.5
IV 14000	47.2	63.4	65.9	66.3	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
IV 12000	47.2	63.4	65.9	66.3	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
IV 10000	47.2	63.4	65.9	66.3	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
IV 9000	47.2	63.4	65.9	66.3	67.1	67.1	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.9	67.9	67.9
IV 8000	48.4	65.0	67.5	67.9	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.5	69.5	69.5
IV 7000	48.4	65.0	67.5	67.9	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.5	69.5	69.5
IV 6000	48.8	65.9	68.3	68.7	69.5	69.5	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.3	70.3	70.3
IV 5000	49.2	66.3	68.7	69.1	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.7	70.7	70.7
IV 4500	49.2	66.3	68.7	69.1	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.7	70.7	70.7
IV 4000	50.4	67.5	69.9	70.3	71.1	71.1	71.5	71.5	71.5	71.5	71.5	71.5	71.5	72.0	72.0	72.0
IV 3500	52.4	69.9	72.4	72.8	73.6	73.6	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.4	74.4	74.4
IV 3000	54.4	72.4	74.8	75.2	76.0	76.0	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.8	76.8	76.8
IV 2500	58.1	76.4	78.5	78.9	79.7	79.7	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.5	80.5	80.5
IV 2000	62.2	80.9	83.3	83.7	84.6	84.6	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.4	85.4	85.4
IV 1800	63.0	82.1	84.6	85.0	85.8	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.6	86.6	86.6
IV 1500	65.0	87.4	89.8	90.2	91.1	91.1	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.9	91.9	91.9
IV 1200	65.9	89.4	91.9	92.3	93.1	93.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.9	93.9	93.9
IV 1000	67.5	92.3	94.7	95.3	96.3	96.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.2	97.2	97.2
IV 900	67.5	93.1	95.9	96.3	97.6	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.8	98.8	98.8
IV 800	67.5	93.1	95.9	96.3	97.6	97.6	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.8	98.8	98.8
IV 700	67.5	93.1	95.9	97.2	98.0	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.2	99.2	99.2
IV 600	67.5	93.1	95.9	97.2	98.0	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.2	99.2	99.2
IV 500	67.5	93.1	95.9	97.2	98.0	98.0	98.8	98.8	98.8	98.8	98.8	98.8	98.8	99.2	99.2	99.2
IV 400	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 300	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 200	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 100	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6
IV 0	67.5	93.1	95.9	97.6	98.4	98.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 206

DIRNAVOCEANMET SMSO

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION: IMPERIAL BEACH, CALIFORNIA YEARS: 73-74, 78-82 MONTH: APR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T): 22

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	32.9	56.4	58.6	58.6	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000	33.6	57.1	59.3	59.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IVIV 18000	33.6	57.1	59.3	59.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IVIV 16000	33.6	57.1	59.3	59.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IVIV 14000	34.3	57.9	60.0	60.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IVIV 12000	34.3	57.9	60.0	60.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IVIV 10000	34.3	57.9	60.0	60.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IVIV 9000	34.3	57.9	60.0	60.0	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
IVIV 8000	35.0	59.3	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IVIV 7000	35.0	59.3	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IVIV 6000	35.0	59.3	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IVIV 5000	35.0	59.3	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IVIV 4500	35.0	59.3	61.4	61.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IVIV 4000	36.4	60.7	62.9	62.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IVIV 3500	36.4	60.7	62.9	62.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IVIV 3000	36.4	60.7	62.9	62.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IVIV 2500	42.1	68.6	70.7	70.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IVIV 2000	42.1	68.6	70.7	70.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IVIV 1800	45.0	74.3	76.4	76.4	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
IVIV 1500	47.1	81.4	84.3	84.3	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
IVIV 1200	49.3	88.6	92.1	92.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IVIV 1000	49.3	91.4	95.7	95.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IVIV 900	49.3	91.4	95.7	95.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IVIV 800	49.3	91.4	95.7	95.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IVIV 700	49.3	91.4	95.7	95.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IVIV 600	49.3	91.4	95.7	95.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IVIV 500	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 400	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 300	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 200	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 100	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 0	49.3	92.1	98.6	98.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 140

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-80

YEARS

APR

MORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
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	44.6	57.4	62.3	63.5	64.6	64.8	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 20000	46.7	62.6	64.6	65.8	66.9	67.1	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.6	67.6
IV 18000	46.7	61.6	64.6	65.8	66.9	67.1	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 16000	46.7	61.6	64.6	65.8	66.9	67.1	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
IV 14000	46.5	62.1	65.1	66.3	67.3	67.5	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.1	68.1
IV 12000	46.6	62.4	65.3	66.5	67.6	67.8	68.1	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
IV 10000	47.2	62.8	65.7	66.9	68.0	68.2	68.5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8
IV 9000	47.2	62.8	65.7	66.9	68.0	68.2	68.5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.8	68.8
IV 8000	47.9	63.8	66.7	67.9	69.0	69.2	69.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.8	69.8
IV 7000	48.3	64.3	67.2	68.4	69.5	69.7	70.0	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
IV 6000	48.4	64.4	67.3	68.5	69.6	69.8	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.4	70.4
IV 5000	49.7	65.1	68.0	69.2	70.3	70.5	70.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 4500	49.2	65.4	68.3	69.5	70.6	70.8	71.2	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.4	71.4
IV 4000	50.2	66.4	69.4	70.6	71.6	71.8	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.4	72.4
IV 3500	51.6	68.0	71.0	72.2	73.2	73.4	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0
IV 3000	52.7	69.5	72.4	73.6	74.7	74.9	75.3	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.5	75.5
IV 2500	57.1	74.8	77.8	79.1	80.2	80.4	80.7	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.9	80.9
IV 2000	60.1	78.9	82.0	83.3	84.4	84.6	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.2	85.2
IV 1800	61.4	79.8	82.9	84.2	85.3	85.5	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.1	86.1
IV 1500	62.4	80.9	84.0	85.3	86.4	86.6	87.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.2	87.2
IV 1200	63.7	85.9	89.0	90.3	91.4	91.6	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.2	92.2
IV 1000	63.4	87.3	90.4	91.7	92.8	93.0	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.6	93.6
IV 900	63.5	87.5	90.6	91.9	93.0	93.2	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.8	93.8
IV 800	63.5	88.0	91.1	92.4	93.5	93.7	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3
IV 700	63.5	88.0	91.1	92.4	93.5	93.7	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3
IV 600	63.5	88.0	91.1	92.4	93.5	93.7	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3
IV 500	63.5	88.1	91.2	92.5	93.6	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4	94.4
IV 400	63.6	88.1	91.2	92.5	93.6	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4	94.4
IV 300	63.6	88.1	91.2	92.5	93.6	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4	94.4
IV 200	63.6	88.1	91.2	92.5	93.6	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4	94.4
IV 100	63.6	88.1	91.2	92.5	93.6	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4	94.4
IV 0	63.6	88.1	91.2	92.5	93.6	93.8	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.4	94.4

TOTAL NUMBER OF OBSERVATIONS 1491

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

74

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

02
HOURS (L S Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200		50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1000		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		50.0	50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7-55
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74
YEAR

4AY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

24
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 IV 20000															
IV 18000 IV 16000															
IV 14000 IV 12000															
IV 10000 IV 9000															
IV 8000 IV 7000															
IV 6000 IV 5000															
IV 4500 IV 4000															
IV 3500 IV 3000															
IV 2500 IV 2000				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1800 IV 1500				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1200 IV 1000				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 900 IV 800		50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700 IV 600		50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500 IV 400		50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300 IV 200		50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100 0		50.0	50.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION 3115

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

57
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	12.2	17.8	21.2	22.7	23.9	23.4	23.4	23.7	23.7	24.5	24.5	24.5	24.5	24.5	24.5	24.5
IV 20000	13.0	20.5	21.9	23.4	23.7	24.1	24.1	24.5	24.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
IV 16000	13.0	20.5	21.9	23.4	23.7	24.1	24.1	24.5	24.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
IV 14000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 12000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 10000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 9000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 8000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 7000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 6000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 5000	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 4500	13.3	20.9	22.3	23.7	24.1	24.5	24.5	24.8	24.8	25.5	25.5	25.5	25.5	25.5	25.5	25.5
IV 4000	13.7	21.2	22.7	24.1	24.5	24.8	24.8	25.2	25.2	25.9	25.9	25.9	25.9	25.9	25.9	25.9
IV 3500	15.1	22.7	24.1	25.5	25.9	26.3	26.3	26.6	26.6	27.3	27.3	27.3	27.3	27.3	27.3	27.3
IV 3000	18.7	26.3	27.7	29.1	29.5	29.9	29.9	30.2	30.2	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 2500	24.8	33.1	34.5	36.0	36.3	36.7	36.7	37.1	37.1	37.8	37.8	37.8	37.8	37.8	37.8	37.8
IV 2000	29.9	42.1	43.9	45.3	45.7	46.0	46.0	46.4	46.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1800	31.3	44.2	46.0	47.5	47.8	48.2	48.2	48.6	48.6	49.3	49.3	49.3	49.3	49.3	49.3	49.3
IV 1500	32.9	56.8	61.2	63.0	63.3	63.7	63.7	64.3	64.3	64.8	64.8	64.8	64.8	64.8	64.8	64.8
IV 1200	41.0	60.1	67.3	70.1	70.5	70.9	70.9	71.2	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IV 1000	42.8	65.1	74.5	79.1	80.2	80.9	81.7	82.0	82.4	83.1	83.1	83.1	83.1	83.1	83.1	83.1
IV 900	42.8	65.1	74.5	79.1	80.9	81.7	82.4	82.7	83.1	83.8	83.8	83.8	83.8	83.8	83.8	83.8
IV 800	42.8	65.8	76.6	81.3	84.5	85.3	86.1	86.9	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9
IV 700	42.8	65.8	76.6	81.3	84.9	86.5	87.4	87.9	88.5	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 600	42.8	65.8	76.6	81.3	84.9	86.5	87.4	87.9	88.5	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 500	42.8	65.8	76.6	81.3	85.6	87.2	87.8	88.2	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 400	42.8	65.8	76.6	81.3	85.6	87.2	87.8	88.2	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 300	42.8	65.8	76.6	81.3	86.0	87.6	88.2	88.6	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 200	42.8	65.8	76.6	81.3	86.0	87.6	88.2	88.6	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 100	42.8	65.8	76.6	81.3	86.0	87.6	88.2	88.6	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
IV 0	42.8	65.8	76.6	81.3	86.0	87.6	88.2	88.6	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7

TOTAL NUMBER OF OBSERVATIONS 278

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

73-15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	28.1	41.0	45.3	46.4	47.1	47.1	47.8	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
≥ 20000	28.8	42.1	46.1	47.1	47.8	47.8	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IVIV 18000	28.8	42.1	46.0	47.1	47.8	47.8	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
16000	29.8	42.1	46.0	47.1	47.8	47.8	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
IVIV 14000	29.8	42.1	46.0	47.1	47.8	47.8	48.6	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9
12000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IVIV 10000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
9000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IVIV 8000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
7000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IVIV 6000	29.5	42.8	46.8	47.8	48.6	48.6	49.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
5000	29.9	43.2	47.1	48.2	48.9	48.9	49.6	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IVIV 4500	30.6	43.9	47.8	48.9	49.6	49.6	50.4	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
4000	31.3	44.6	48.6	49.6	50.4	50.4	51.1	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IVIV 3500	34.9	46.2	52.2	53.2	54.0	54.0	54.7	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
3000	37.1	51.4	55.4	56.5	57.2	57.2	57.9	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
IVIV 2500	41.4	57.2	61.2	62.2	63.0	63.0	63.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
2000	44.2	62.2	66.2	67.3	68.0	68.0	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IVIV 1800	44.6	63.0	67.3	68.4	69.1	69.1	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
1500	50.7	71.2	76.3	77.7	78.4	78.4	79.1	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
IVIV 1200	52.5	73.7	79.9	81.7	83.1	83.5	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1000	52.5	75.9	84.2	86.7	88.9	89.6	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IVIV 900	52.9	75.9	84.2	86.7	89.6	90.3	91.0	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
800	53.2	76.6	84.9	87.4	91.0	92.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
IVIV 700	53.2	76.6	84.9	88.1	92.5	93.9	94.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
400	53.2	76.6	85.3	88.5	92.8	94.2	95.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IVIV 500	53.2	76.6	85.6	88.9	93.5	95.0	96.0	97.1	97.1	97.8	97.8	97.8	97.8	97.8	97.8	97.8
400	53.2	76.6	85.6	88.9	93.9	95.3	96.4	97.5	97.5	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IVIV 300	53.2	76.6	85.6	88.9	93.9	95.3	97.1	98.6	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3
200	53.2	76.6	85.6	88.9	93.9	95.3	97.1	98.6	98.6	99.3	99.3	99.3	99.3	100.0	100.0	100.0
IVIV 100	53.2	76.6	85.6	88.9	93.9	95.3	97.1	98.6	98.6	99.3	99.3	99.3	99.3	100.0	100.0	100.0
0	53.2	76.6	85.6	88.9	93.9	95.3	97.1	98.6	98.6	99.3	99.3	99.3	99.3	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 278

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

73 15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
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	45.7	59.7	62.6	64.4	65.8	65.8	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	
≥ 20000	47.1	61.2	64.0	65.8	67.3	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	
IVV 18000	47.1	61.2	64.0	65.8	67.3	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	
IVV 14000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	
IVV 12000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	
IVV 10000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	
IVV 9000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	
IVV 8000	47.5	61.5	64.4	66.2	67.6	67.6	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	
IVV 7000	47.8	61.9	64.8	66.6	68.0	68.0	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	
IVV 6000	47.8	62.2	65.1	66.9	68.4	68.4	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	
IVV 5000	48.2	62.6	65.5	67.3	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
IVV 4500	48.2	62.6	65.5	67.3	68.7	68.7	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	
IVV 4000	48.9	63.3	66.2	68.0	69.4	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	
IVV 3500	50.4	65.1	68.0	69.8	71.2	71.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	
IVV 3000	51.8	67.1	70.1	71.9	73.4	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	
IVV 2500	55.6	71.9	74.8	76.6	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	
IVV 2000	58.6	75.9	78.8	80.6	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	
IVV 1800	58.6	75.9	78.8	80.6	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	
IVV 1500	60.8	79.5	83.1	85.3	86.7	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	
IVV 1200	63.3	84.2	88.1	90.7	92.5	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	
IVV 1000	63.3	85.3	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	
IVV 900	63.3	85.3	91.0	93.5	95.7	95.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	
IVV 800	63.3	85.6	91.4	93.9	96.4	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	
IVV 700	63.3	85.6	91.4	94.2	96.8	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	
IVV 600	63.3	85.6	91.4	94.6	97.1	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	
IVV 500	63.3	85.6	91.4	94.6	97.1	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	
IVV 400	63.3	85.6	91.4	94.6	97.1	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	
IVV 300	63.3	85.6	91.4	94.6	97.5	97.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
IVV 200	63.3	85.6	91.4	94.6	97.5	97.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
IVV 100	63.3	85.6	91.4	94.6	97.5	97.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	
IVV 0	63.3	85.6	91.4	94.6	97.5	97.5	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	

TOTAL NUMBER OF OBSERVATIONS 278

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	
NO CEILING	42.6	54.6	56.6	57.4	58.3	59.1	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
≥ 20000	43.8	55.8	57.9	58.7	59.5	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IVV 18000	43.8	55.8	57.9	58.7	59.5	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
16000	43.8	55.8	57.9	58.7	59.5	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
IVV 14000	44.2	56.2	58.3	59.1	59.9	60.7	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
12000	44.2	56.2	58.3	59.1	59.9	60.7	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
IVV 10000	44.6	56.6	58.7	59.5	60.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
9000	44.6	56.6	58.7	59.5	60.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IVV 8000	44.6	56.6	58.7	59.5	60.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
7000	44.6	56.6	58.7	59.5	60.3	61.2	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
IVV 6000	45.0	57.0	59.1	59.9	60.7	61.6	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
5000	45.0	57.0	59.5	60.3	61.2	62.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IVV 4500	45.0	57.0	59.5	60.3	61.2	62.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
4000	46.3	58.3	60.3	61.2	62.0	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IVV 3500	49.4	60.3	62.4	63.2	64.1	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
3000	51.2	63.2	65.3	66.1	66.9	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
IVV 2500	56.6	69.8	71.9	72.7	73.6	74.4	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2000	59.1	73.6	75.6	76.5	77.3	78.1	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IVV 1800	60.3	76.0	78.1	79.9	79.8	80.6	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
1500	63.6	81.0	83.9	84.7	86.0	86.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IVV 1200	64.5	83.5	87.2	88.3	89.3	90.1	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
1000	64.9	86.6	90.9	91.7	93.4	94.2	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IVV 900	64.9	87.2	91.3	92.2	94.2	95.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
800	64.9	88.0	92.2	93.8	96.3	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IVV 700	65.3	88.4	92.6	94.2	96.7	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
600	65.3	88.4	92.6	94.6	97.1	97.9	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
IVV 500	65.3	88.4	92.6	94.6	97.1	97.9	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
400	65.3	88.4	92.6	95.0	97.9	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IVV 300	65.3	88.4	92.6	95.0	98.4	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200	65.3	88.4	92.6	95.0	98.4	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVV 100	65.3	88.4	92.6	95.0	98.4	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	65.3	88.4	92.6	95.0	98.4	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 242

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION 15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
WEA

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	
NO CEILING	29.4	35.8	41.1	42.4	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
≥ 20000	31.2	41.6	42.9	44.2	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
IV 18000	31.2	41.6	42.9	44.2	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
IV 14000	31.2	41.6	42.9	44.2	44.6	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
IV 12000	32.0	42.4	43.7	45.0	45.5	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
IV 10000	32.5	42.9	44.2	45.5	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
IV 9000	32.5	42.9	44.2	45.5	45.9	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
IV 8000	32.9	43.3	44.6	45.9	46.3	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IV 7000	32.9	43.3	44.6	45.9	46.3	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IV 6000	32.9	43.3	44.6	45.9	46.3	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
IV 5000	34.2	44.6	45.9	47.2	47.6	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 4500	34.2	45.0	46.3	47.6	48.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 4000	34.2	45.0	46.3	47.6	48.1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
IV 3500	34.6	45.9	47.2	48.5	48.9	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
IV 3000	35.9	47.2	48.5	49.8	50.2	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
IV 2500	38.5	51.1	52.4	53.7	54.1	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 2000	44.6	58.4	59.7	61.0	61.5	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 1800	45.0	59.7	61.0	62.3	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 1500	50.7	72.3	73.6	75.0	75.5	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 1200	58.4	81.5	82.8	84.2	84.7	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IV 1000	60.7	85.3	86.7	88.1	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 900	60.6	86.2	87.6	89.0	89.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV 800	60.6	86.6	88.0	89.4	89.9	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 700	61.5	87.9	89.3	90.7	91.2	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 600	61.5	88.3	89.7	91.1	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 500	61.5	88.3	89.7	91.1	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 400	61.5	88.3	89.7	91.1	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 300	61.5	88.3	89.7	91.1	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 200	61.5	88.3	89.7	91.1	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 100	61.5	88.3	89.7	91.1	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 0	61.5	88.3	89.7	91.1	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2

TOTAL NUMBER OF OBSERVATIONS 231

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7-15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-74,78-82
YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L O T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¼	≥ 0
NO CEILING	27.7	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
≥ 2000	23.7	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 10000	23.0	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 14000	23.0	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 14000	23.0	34.1	35.6	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 12000	23.7	34.0	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 10000	23.7	34.0	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 9000	23.7	34.0	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 8000	23.7	34.0	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 7000	23.7	34.0	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 6000	23.7	34.0	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 5000	23.7	34.0	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 4000	23.7	34.0	36.3	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
IV 3000	24.4	36.3	37.0	38.5	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
IV 2000	24.4	36.3	37.0	38.5	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
IV 1000	25.2	37.0	38.5	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 500	25.2	37.0	38.5	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
IV 0	25.9	40.7	42.2	43.0	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
IV 2500	31.9	43.7	45.2	45.9	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
IV 2000	33.3	51.9	53.3	54.1	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 1800	33.3	52.6	54.8	55.6	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1500	40.7	68.2	70.4	71.1	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 1200	44.4	74.3	82.2	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 1000	45.9	83.7	88.2	89.6	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IV 900	45.9	85.9	91.1	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 800	45.9	87.4	92.6	94.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 700	45.9	87.4	92.6	94.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
IV 600	46.7	88.2	93.3	95.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 500	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	46.7	88.2	93.3	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 135

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7:15
STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MAY

ALL
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	30.5	41.9	44.2	45.4	46.2	46.4	46.7	46.8	46.8	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 20000	31.5	43.1	45.2	46.5	47.2	47.5	47.8	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 18000	31.5	43.0	45.2	46.5	47.2	47.5	47.8	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 16000	31.5	43.0	45.2	46.5	47.2	47.5	47.8	47.9	47.9	48.1	48.1	48.1	48.1	48.1	48.1	48.1
IV 14000	31.7	43.2	45.4	46.7	47.4	47.7	48.0	48.1	48.1	48.3	48.3	48.3	48.3	48.3	48.3	48.3
IV 12000	32.1	43.5	45.8	47.0	47.8	48.1	48.3	48.5	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6
IV 10000	32.2	43.6	45.9	47.2	47.9	48.2	48.5	48.6	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8
IV 9000	32.2	43.6	45.9	47.2	47.9	48.2	48.5	48.6	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8
IV 8000	32.3	43.7	46.0	47.2	48.0	48.3	48.6	48.7	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8
IV 7000	32.4	43.9	46.1	47.4	48.1	48.4	48.7	48.8	48.8	49.0	49.0	49.0	49.0	49.0	49.0	49.0
IV 6000	32.4	44.0	46.3	47.5	48.3	48.6	48.8	49.0	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1
IV 5000	32.5	44.5	46.8	48.0	48.8	49.0	49.3	49.5	49.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6
IV 4800	33.1	44.7	47.0	48.2	49.0	49.2	49.5	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8
IV 4600	33.6	45.2	47.5	48.8	49.5	49.8	50.1	50.2	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4
IV 3500	35.3	47.0	49.3	51.6	51.3	51.6	51.9	52.0	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 3000	37.7	49.8	52.1	53.3	54.1	54.9	54.6	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9
IV 2500	42.1	55.1	57.4	58.6	59.4	59.7	60.0	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 2000	45.6	61.1	63.5	64.7	65.6	65.8	66.1	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4
IV 1800	46.3	62.4	64.9	66.2	66.9	67.2	67.5	67.6	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8
IV 1500	52.2	71.4	74.8	76.4	77.2	77.5	77.7	77.9	77.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0
IV 1200	54.4	76.2	80.7	82.6	83.7	84.0	84.3	84.4	84.5	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 1000	55.5	77.5	85.7	88.2	89.7	90.2	90.6	90.8	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 900	55.5	77.9	86.2	88.9	90.8	91.3	91.7	91.9	92.0	92.1	92.1	92.1	92.1	92.1	92.1	92.1
IV 800	55.5	81.7	87.2	90.0	92.5	93.3	93.9	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5
IV 700	55.7	81.3	87.6	90.5	93.2	94.3	95.1	95.3	95.4	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 600	55.7	81.1	87.8	90.9	94.0	95.3	96.3	96.7	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 500	55.7	81.1	87.9	91.1	94.5	96.0	97.2	97.7	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 400	55.7	81.1	87.9	91.2	94.7	96.3	97.6	98.2	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 300	55.7	81.1	87.9	91.2	95.0	96.6	98.1	98.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 200	55.7	81.1	87.9	91.2	95.0	96.6	98.1	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 100	55.7	81.1	87.9	91.2	95.0	96.6	98.1	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 0	55.7	81.1	87.9	91.2	95.0	96.6	98.1	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 1486

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7 15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

YEARS

JUN
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	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4800																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
IV 0																

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
1315

STATION NAME
IMPERIAL BEACH, CALIFORNIA

YEARS

MONTH
JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T)
24

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

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

27

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	3.9	9.5	14.8	19.1	20.1	21.9	23.0	23.0	23.0	23.3	23.3	23.3	23.3	23.3	23.3	23.3
≥ 20000	3.9	9.5	14.8	19.1	20.1	21.9	23.0	23.0	23.0	23.3	23.3	23.3	23.3	23.3	23.3	23.3
IV 18000	4.2	9.9	15.2	19.4	20.5	22.3	23.3	23.3	23.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
IV 16000	4.2	9.9	15.2	19.4	20.5	22.3	23.3	23.3	23.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
IV 14000	4.2	9.9	15.2	19.4	20.5	22.3	23.3	23.3	23.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
IV 12000	4.2	9.9	15.2	19.4	20.5	22.3	23.3	23.3	23.3	23.7	23.7	23.7	23.7	23.7	23.7	23.7
IV 10000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 9000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 8000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 7000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 6000	4.2	9.9	15.6	19.8	20.9	22.6	23.7	23.7	23.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0
IV 5000	4.2	10.3	15.9	20.1	21.2	23.0	24.0	24.0	24.0	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 4500	4.7	10.3	15.9	20.1	21.2	23.0	24.0	24.0	24.0	24.4	24.4	24.4	24.4	24.4	24.4	24.4
IV 4000	5.0	11.0	16.6	20.9	21.9	23.7	24.7	24.7	24.7	25.1	25.1	25.1	25.1	25.1	25.1	25.1
IV 3500	5.3	11.7	17.3	21.6	22.6	24.4	25.4	25.4	25.4	25.8	25.8	25.8	25.8	25.8	25.8	25.8
IV 3000	6.7	13.1	18.7	23.0	24.0	25.8	26.9	26.9	26.9	27.2	27.2	27.2	27.2	27.2	27.2	27.2
IV 2500	17.6	18.4	24.0	28.3	29.3	31.1	32.2	32.2	32.2	32.6	32.6	32.6	32.6	32.6	32.6	32.6
IV 2000	13.8	22.6	28.3	32.9	33.9	35.7	36.8	36.8	36.8	37.1	37.1	37.1	37.1	37.1	37.1	37.1
IV 1800	13.8	23.3	29.0	33.6	34.6	36.4	37.5	37.5	37.5	37.8	37.8	37.8	37.8	37.8	37.8	37.8
IV 1500	17.7	32.9	39.2	44.2	45.9	48.1	49.1	49.1	49.1	49.5	49.5	49.5	49.5	49.5	49.5	49.5
IV 1200	18.4	37.5	45.2	51.2	53.7	56.2	57.2	57.2	57.2	57.6	57.6	57.6	57.6	57.6	57.6	57.6
IV 1000	18.7	40.1	51.2	60.8	64.3	67.8	69.6	69.6	69.6	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IV 900	18.7	41.3	52.3	63.3	67.1	70.7	72.4	72.4	72.4	72.8	72.8	72.8	72.8	72.8	72.8	72.8
IV 800	18.7	41.7	53.7	65.4	72.1	76.7	79.5	79.9	79.9	80.6	80.9	80.9	80.9	80.9	80.9	80.9
IV 700	18.7	42.1	54.1	66.8	74.2	79.2	83.0	84.1	84.1	84.8	85.2	85.2	85.2	85.2	85.2	85.2
IV 600	18.7	42.1	54.8	67.8	75.6	80.9	85.5	87.3	87.3	88.0	88.3	88.3	88.3	88.3	88.3	88.3
IV 500	18.7	42.1	54.8	68.9	77.4	83.4	89.1	91.2	91.2	91.9	92.2	92.2	92.2	92.2	92.2	92.2
IV 400	18.7	42.1	54.8	68.9	77.7	83.8	90.1	92.6	92.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0
IV 300	18.7	42.1	54.8	68.9	77.7	83.8	90.1	93.6	94.0	95.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 200	18.7	42.1	54.8	68.9	77.7	83.8	90.1	93.6	94.0	95.4	96.8	96.8	96.8	96.8	96.8	96.8
IV 100	18.7	42.1	54.8	68.9	77.7	83.8	90.1	93.6	94.0	95.4	97.2	97.2	97.2	97.2	97.2	97.2
IV 0	18.7	42.1	54.8	68.9	77.7	83.8	90.1	93.6	94.0	95.4	97.2	97.2	97.2	97.2	97.2	97.2

TOTAL NUMBER OF OBSERVATIONS 283

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

JULY

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	≥ ¼	≥ 0
NO CEILING	19.4	41.3	49.8	55.5	58.3	59.4	59.4	60.1	60.1	60.8	60.8	60.8	61.1	61.1	61.1	61.1
IV 20000	19.4	41.3	50.2	55.5	58.3	59.4	59.7	60.4	60.4	61.1	61.1	61.1	61.5	61.5	61.5	61.5
IV 18000	19.4	41.3	50.2	55.5	58.3	59.4	59.7	60.4	60.4	61.1	61.1	61.1	61.5	61.5	61.5	61.5
IV 16000	19.4	41.3	50.2	55.5	58.3	59.4	59.7	60.4	60.4	61.1	61.1	61.1	61.5	61.5	61.5	61.5
IV 14000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8	61.8
IV 12000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8	61.8
IV 10000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8	61.8
IV 9000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8	61.8
IV 8000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8	61.8
IV 7000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8	61.8
IV 6000	19.4	41.7	50.5	56.2	58.7	59.7	60.1	60.8	60.8	61.5	61.5	61.5	61.8	61.8	61.8	61.8
IV 5000	19.4	42.1	50.9	56.5	59.7	60.1	60.4	61.1	61.1	61.8	61.8	61.8	62.2	62.2	62.2	62.2
IV 4500	19.4	42.1	50.9	56.5	59.7	60.1	60.4	61.1	61.1	61.8	61.8	61.8	62.2	62.2	62.2	62.2
IV 4000	20.5	42.5	51.6	57.2	59.7	60.8	61.1	61.5	61.5	62.5	62.5	62.5	62.9	62.9	62.9	62.9
IV 3500	20.5	42.5	51.6	57.2	59.7	60.8	61.1	61.5	61.5	62.5	62.5	62.5	62.9	62.9	62.9	62.9
IV 3000	21.2	43.5	52.7	58.3	60.8	61.8	62.2	62.9	62.9	63.6	63.6	63.6	64.0	64.0	64.0	64.0
IV 2500	23.3	46.6	55.5	61.1	63.6	64.7	65.0	65.7	65.7	66.4	66.4	66.4	66.8	66.8	66.8	66.8
IV 2000	24.7	49.1	58.7	63.6	66.1	67.1	67.5	68.2	68.2	68.9	68.9	68.9	69.3	69.3	69.3	69.3
IV 1800	25.1	49.8	59.0	64.7	67.1	68.2	68.6	69.3	69.3	70.0	70.0	70.0	70.3	70.3	70.3	70.3
IV 1500	27.6	55.8	66.8	73.9	76.3	77.4	77.7	78.5	78.5	79.2	79.2	79.2	79.5	79.5	79.5	79.5
IV 1200	27.9	58.3	70.3	77.4	80.2	81.3	81.6	82.3	82.3	83.0	83.0	83.0	83.4	83.4	83.4	83.4
IV 1000	28.6	57.7	72.8	80.6	84.5	85.9	86.6	87.3	87.3	88.0	88.0	88.0	88.3	88.3	88.3	88.3
IV 900	28.6	57.7	73.9	81.6	85.5	86.9	88.3	89.1	89.1	89.8	89.8	89.8	90.1	90.1	90.1	90.1
IV 800	28.6	60.1	74.2	83.0	87.3	89.4	91.2	91.9	91.9	92.9	92.9	92.9	93.3	93.3	93.3	93.3
IV 700	29.0	60.4	74.9	83.8	88.7	90.1	91.9	92.6	92.6	93.6	93.6	93.6	94.0	94.0	94.0	94.0
IV 600	29.0	60.4	74.9	83.8	89.1	91.5	93.3	94.0	94.0	95.1	95.1	95.1	95.4	95.4	95.4	95.4
IV 500	29.0	60.4	74.9	83.8	90.8	93.6	95.4	96.5	96.5	97.9	97.9	97.9	98.2	98.2	98.2	98.2
IV 400	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.2	97.2	98.6	98.6	98.6	98.9	98.9	98.9	98.9
IV 300	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.5	97.5	98.9	98.9	98.9	99.3	99.3	99.3	99.3
IV 200	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.5	97.5	98.9	98.9	98.9	99.7	99.7	99.7	99.7
IV 100	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.5	97.5	98.9	98.9	98.9	100.0	100.0	100.0	100.0
IV 0	29.0	60.4	74.9	83.8	91.2	94.0	96.1	97.5	97.5	98.9	98.9	98.9	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

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (C S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	33.3	61.4	66.7	69.9	71.9	70.9	71.6	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 20000	34.7	62.4	67.7	70.9	72.0	72.0	72.7	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 18000	34.8	62.8	68.0	71.3	72.3	72.3	73.1	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 16000	34.4	63.1	68.4	71.6	72.7	72.7	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 14000	34.4	63.1	68.4	71.6	72.7	72.7	73.4	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 12000	34.4	63.5	68.8	72.0	73.1	73.1	73.8	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
IV 10000	34.8	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 9000	34.4	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 8000	34.8	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 7000	34.4	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 6000	34.8	63.8	69.2	72.3	73.4	73.4	74.1	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 5000	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
IV 4500	35.1	64.2	69.5	72.7	73.8	73.8	74.5	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
IV 4000	35.2	64.9	70.2	73.4	74.5	74.5	75.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV 3500	35.4	64.9	70.2	73.4	74.5	74.5	75.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV 3000	35.4	65.3	70.6	73.8	74.8	74.8	75.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
IV 2500	36.9	66.3	71.6	74.8	75.9	75.9	76.6	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 2000	38.3	68.4	73.8	77.3	78.4	78.4	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 1800	39.7	69.2	74.5	78.0	79.1	79.1	79.8	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
IV 1500	40.8	72.7	79.1	82.0	83.7	83.7	84.4	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
IV 1200	41.1	73.4	80.5	84.4	85.5	85.5	86.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 1000	42.6	76.4	86.9	90.8	92.6	92.6	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 900	42.6	76.7	87.2	91.1	92.9	92.9	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 800	42.6	77.4	87.9	92.2	94.0	94.0	94.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 700	42.6	77.6	88.3	92.6	94.7	95.7	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 600	42.6	77.8	88.7	92.9	95.0	96.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 500	42.6	77.8	88.7	93.3	95.8	96.8	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 400	42.6	77.8	88.7	93.3	96.1	97.5	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 300	42.6	77.8	88.7	93.3	96.1	97.5	98.9	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	42.6	77.8	88.7	93.3	96.1	97.5	98.9	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	42.6	77.8	88.7	93.3	96.1	97.5	98.9	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	42.6	77.8	88.7	93.3	96.1	97.5	98.9	99.7	99.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 152

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	35.9	61.7	64.9	66.5	66.9	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 20000	35.9	61.7	65.7	67.3	67.7	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
IV 18000	35.9	62.1	65.7	67.3	67.7	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
IV 16000	35.9	62.5	66.1	67.7	68.2	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 14000	35.9	62.5	66.1	67.7	68.2	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 12000	35.9	62.5	66.1	67.7	68.2	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 10000	35.9	63.3	66.9	68.6	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IV 9000	35.9	63.3	66.9	68.6	69.0	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
IV 8000	35.9	63.7	67.3	69.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 7000	35.9	63.7	67.3	69.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 6000	35.9	63.7	67.3	69.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 5000	35.9	63.7	67.3	69.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 4500	35.9	63.7	67.3	69.0	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
IV 4000	37.1	64.5	65.2	69.8	70.2	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 3500	37.5	65.3	69.0	70.6	71.0	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
IV 3000	39.7	66.5	71.2	71.8	72.2	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 2500	39.7	67.3	71.8	72.6	73.0	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 2000	47.7	69.0	72.6	74.2	74.6	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 1800	47.7	70.2	73.8	75.4	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 1500	43.2	73.4	77.0	80.7	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IV 1200	44.4	77.8	81.9	83.3	83.9	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
IV 1000	45.4	84.7	91.1	93.2	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
IV 900	45.4	85.1	91.9	94.0	94.4	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 800	45.4	85.5	92.3	95.2	95.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 700	45.4	85.9	92.7	96.0	96.4	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 600	45.4	85.9	92.7	96.4	97.6	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
IV 500	45.4	85.9	92.7	96.4	97.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	45.4	85.9	92.7	96.4	97.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	45.4	85.9	92.7	96.4	97.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	45.4	85.9	92.7	96.4	97.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	45.4	85.9	92.7	96.4	97.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	45.4	85.9	92.7	96.4	97.6	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 249

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JUN

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	≥ 5/16	≥ ¼	≥ 0
NO CEILING	32.4	55.0	57.1	57.1	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	58.0	58.0	58.0
≥ 20000	33.2	56.3	58.4	58.4	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	59.2	59.2	59.2
IV 18000	33.2	56.7	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.7	59.7	59.7
IV 16000	33.2	56.7	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.7	59.7	59.7
IV 14000	33.2	56.7	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.7	59.7	59.7
IV 12000	33.2	56.7	58.8	58.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.7	59.7	59.7
IV 10000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1
IV 9000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1
IV 8000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1
IV 7000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1
IV 6000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1
IV 5000	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1
IV 4500	33.6	57.1	59.2	59.2	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	60.1	60.1	60.1
IV 4000	34.0	57.6	59.7	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.5	60.5	60.5
IV 3500	34.5	58.0	60.1	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.9	60.9	60.9
IV 3000	34.5	58.0	60.1	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.9	60.9	60.9
IV 2500	35.7	59.7	61.8	61.8	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.6	62.6	62.6
IV 2000	37.4	61.8	63.9	63.9	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.7	64.7	64.7
IV 1800	37.8	62.6	64.7	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.6	65.6	65.6
IV 1500	43.0	70.0	73.5	73.5	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.4	74.4	74.4
IV 1200	45.0	73.5	76.9	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	78.2	78.2	78.2
IV 1000	45.8	80.7	87.7	87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	88.2	88.2	88.2
IV 900	46.2	81.9	88.7	89.5	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.8	90.8	90.8
IV 800	46.2	84.5	91.6	92.9	93.7	94.1	94.5	94.5	94.5	94.5	94.5	94.5	95.0	95.0	95.0
IV 700	46.2	84.5	92.4	93.7	95.0	95.4	95.8	95.8	95.8	95.8	95.8	95.8	96.2	96.2	96.2
IV 600	46.2	84.5	92.4	93.7	95.0	95.4	95.8	95.8	95.8	95.8	95.8	95.8	96.2	96.2	96.2
IV 500	46.2	84.5	92.4	93.7	95.0	95.4	95.8	96.6	96.6	96.6	96.6	96.6	97.1	97.1	97.1
IV 400	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	97.5	97.5	97.5
IV 300	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	97.5	97.5	97.5
IV 200	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	98.3	98.3	98.3
IV 100	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	98.3	98.3	99.2
IV 0	46.2	84.5	92.9	94.1	95.4	95.8	96.2	97.1	97.1	97.1	97.1	97.1	98.3	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS

638

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-77-87

YEARS

MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.8	44.0	47.1	49.3	49.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000	17.8	44.0	47.1	49.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 18000	17.8	44.0	47.1	49.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
IV 16000	17.8	44.0	47.8	50.3	51.0	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
IV 14000	17.8	45.2	48.4	51.0	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 12000	17.8	45.2	46.4	51.0	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
IV 10000	18.5	45.9	49.0	51.6	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
IV 9000	18.5	45.9	49.0	51.6	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
IV 8000	18.5	45.9	49.0	51.6	52.2	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
IV 7000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 6000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 5000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 4500	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 4000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 3500	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 3000	18.5	46.5	49.7	52.2	52.9	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 2500	21.8	51.0	54.1	56.7	57.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
IV 2000	24.2	55.4	58.6	61.2	61.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
IV 1800	24.2	55.4	58.6	61.2	61.8	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
IV 1500	28.0	67.4	73.3	75.8	76.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IV 1200	28.0	73.3	77.1	79.0	80.7	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
IV 1000	28.7	78.3	84.7	89.2	89.8	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
IV 900	28.7	79.0	86.0	90.5	91.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
IV 800	28.7	81.5	88.5	94.3	94.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
IV 700	28.7	82.2	89.8	96.2	97.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 600	28.7	82.2	89.8	96.2	97.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 500	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	28.7	82.2	89.8	96.2	97.5	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 157

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
15

IMPERIAL BEACH, CALIFORNIA

73-82

YEAR
JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	23.7	44.9	49.8	52.7	53.9	54.9	54.9	55.1	55.1	55.3	55.3	55.3	55.5	55.5	55.5	55.5
IV 20000	24.7	45.4	50.4	53.4	54.5	55.2	55.6	55.8	55.8	56.0	56.0	56.0	56.1	56.1	56.1	56.1
IV 18000	24.1	45.6	50.6	53.6	54.7	55.4	55.8	56.0	56.0	56.2	56.2	56.2	56.3	56.3	56.3	56.3
IV 16000	24.2	45.8	50.8	53.8	54.9	55.6	56.0	56.2	56.2	56.4	56.4	56.4	56.5	56.5	56.5	56.5
IV 14000	24.2	45.9	50.9	53.9	55.0	55.7	56.1	56.3	56.3	56.5	56.5	56.5	56.6	56.6	56.6	56.6
IV 12000	24.3	46.0	51.0	54.0	55.1	55.8	56.2	56.4	56.4	56.6	56.6	56.6	56.7	56.7	56.7	56.7
IV 10000	24.4	46.3	51.4	54.4	55.5	56.2	56.6	56.8	56.8	57.0	57.0	57.0	57.1	57.1	57.1	57.1
IV 9000	24.4	46.3	51.4	54.4	55.5	56.2	56.6	56.8	56.8	57.0	57.0	57.0	57.1	57.1	57.1	57.1
IV 8000	24.4	46.4	51.4	54.5	55.5	56.3	56.7	56.9	56.9	57.1	57.1	57.1	57.2	57.2	57.2	57.2
IV 7000	24.4	46.5	51.5	54.5	55.6	56.3	56.7	56.9	56.9	57.1	57.1	57.1	57.3	57.3	57.3	57.3
IV 6000	24.4	46.5	51.5	54.5	55.6	56.3	56.7	56.9	56.9	57.1	57.1	57.1	57.3	57.3	57.3	57.3
IV 5000	24.6	46.7	51.7	54.7	55.8	56.5	56.9	57.1	57.1	57.3	57.3	57.3	57.5	57.5	57.5	57.5
IV 4500	24.6	46.7	51.7	54.7	55.8	56.5	56.9	57.1	57.1	57.3	57.3	57.3	57.5	57.5	57.5	57.5
IV 4000	25.2	47.3	52.3	55.3	56.4	57.1	57.6	57.8	57.8	58.0	58.0	58.0	58.1	58.1	58.1	58.1
IV 3500	25.4	47.6	52.7	55.7	56.7	57.5	57.9	58.1	58.1	58.3	58.3	58.3	58.4	58.4	58.4	58.4
IV 3000	26.0	48.4	53.4	56.4	57.5	58.2	58.6	58.8	58.8	59.0	59.0	59.0	59.2	59.2	59.2	59.2
IV 2500	27.8	51.0	56.0	59.0	60.1	60.8	61.2	61.4	61.4	61.6	61.6	61.6	61.8	61.8	61.8	61.8
IV 2000	29.9	53.7	58.8	61.9	63.0	63.7	64.1	64.3	64.3	64.5	64.5	64.5	64.7	64.7	64.7	64.7
IV 1800	30.1	54.5	59.6	62.7	63.8	64.5	64.9	65.1	65.1	65.3	65.3	65.3	65.5	65.5	65.5	65.5
IV 1500	33.3	64.7	67.7	71.2	72.4	73.2	73.6	73.8	73.8	74.0	74.0	74.0	74.1	74.1	74.1	74.1
IV 1200	34.1	64.5	71.2	75.0	76.4	77.3	77.7	77.9	77.9	78.1	78.1	78.1	78.2	78.2	78.2	78.2
IV 1000	35.1	64.0	77.9	82.8	84.8	85.9	86.5	86.7	86.7	86.9	86.9	86.9	87.1	87.1	87.1	87.1
IV 900	35.1	69.6	78.9	84.2	86.2	87.8	88.2	88.4	88.4	88.6	88.6	88.6	88.7	88.7	88.7	88.7
IV 800	35.1	70.6	80.2	86.2	88.9	90.7	91.8	92.1	92.1	92.4	92.5	92.5	92.6	92.6	92.6	92.6
IV 700	35.2	71.0	80.8	87.1	90.1	92.2	93.5	93.9	93.9	94.2	94.3	94.3	94.4	94.4	94.4	94.4
IV 600	35.2	71.0	81.0	87.5	90.9	93.1	94.6	95.2	95.2	95.5	95.6	95.6	95.7	95.7	95.7	95.7
IV 500	35.2	71.0	81.0	87.7	91.6	94.0	95.7	96.7	96.7	97.1	97.1	97.1	97.3	97.3	97.3	97.3
IV 400	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.5	97.5	98.0	98.1	98.1	98.3	98.3	98.3	98.3
IV 300	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.8	97.9	98.4	98.6	98.6	98.9	98.9	98.9	98.9
IV 200	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.8	97.9	98.5	98.7	98.7	99.4	99.4	99.5	99.5
IV 100	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.8	97.9	98.5	98.8	98.8	99.6	99.6	99.8	99.8
IV 0	35.2	71.0	81.1	87.8	92.0	94.4	96.5	97.8	97.9	98.5	98.8	98.8	99.6	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1491

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73

YEARS

JUL

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	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 14000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7 30
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

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

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

13-82

YEAR

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

27

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0.10	≥ 0	
NO CEILING	3.2	9.9	12.4	17.3	18.4	19.1	19.8	19.8	19.8	20.1	20.1	20.1	20.1	20.4	20.4	20.4
≥ 20000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5	20.5
IVV 18000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5	20.5
IVV 16000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5	20.5
IVV 14000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5	20.5
IVV 12000	3.2	9.9	12.4	17.7	18.7	19.4	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.5	20.5	20.5
IVV 10000	3.2	10.6	13.1	18.4	19.4	20.1	20.9	20.9	20.9	21.2	21.2	21.2	21.2	21.2	21.2	21.2
IVV 9000	3.2	10.6	13.1	18.4	19.4	20.1	20.9	20.9	20.9	21.2	21.2	21.2	21.2	21.2	21.2	21.2
IVV 8000	3.2	11.0	13.4	18.7	19.8	20.5	21.2	21.2	21.2	21.6	21.6	21.6	21.6	21.6	21.6	21.6
IVV 7000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9	21.9
IVV 6000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9	21.9
IVV 5000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9	21.9
IVV 4500	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9	21.9
IVV 4000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9	21.9
IVV 3500	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9	21.9
IVV 3000	3.2	11.3	13.8	19.1	20.1	20.9	21.6	21.6	21.6	21.9	21.9	21.9	21.9	21.9	21.9	21.9
IVV 2500	3.2	11.3	14.1	19.4	20.5	21.2	21.9	21.9	21.9	22.3	22.3	22.3	22.3	22.3	22.3	22.3
IVV 2000	3.5	11.7	14.5	19.8	20.9	21.6	22.3	22.3	22.3	22.6	22.6	22.6	22.6	22.6	22.6	22.6
IVV 1800	5.7	19.1	23.3	29.0	30.0	30.7	31.5	31.8	31.8	32.2	32.2	32.2	32.2	32.2	32.2	32.2
IVV 1600	7.8	25.8	30.7	37.8	38.9	39.6	40.3	40.6	40.6	41.0	41.0	41.0	41.0	41.0	41.0	41.0
IVV 1400	8.5	34.3	42.8	50.9	55.1	57.2	58.0	58.3	58.3	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IVV 1200	9.8	35.3	44.2	54.1	58.7	60.8	61.8	62.2	62.2	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IVV 1000	9.8	37.5	47.8	61.4	68.9	72.4	75.8	76.7	76.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
IVV 900	9.8	37.5	48.1	62.2	71.7	75.6	81.6	83.4	83.4	84.5	84.5	84.5	84.5	84.5	84.5	84.5
IVV 800	9.8	37.8	48.8	63.8	73.5	78.1	85.2	87.3	87.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
IVV 700	9.8	37.8	48.8	64.7	74.6	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IVV 600	9.8	37.8	48.8	64.7	74.6	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IVV 500	9.8	37.8	48.8	64.7	74.6	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IVV 400	9.8	37.8	48.8	64.7	74.6	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IVV 300	9.8	37.8	48.8	64.7	74.6	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IVV 200	9.8	37.8	48.8	64.7	74.6	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IVV 100	9.8	37.8	48.8	64.7	74.6	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IVV 0	9.8	37.8	48.8	64.7	74.6	79.2	86.9	91.2	91.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2

TOTAL NUMBER OF OBSERVATIONS 203

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7-15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 3½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.7	39.3	48.8	55.4	59.3	60.4	60.7	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 20000	14.7	40.0	50.2	56.8	60.7	61.8	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IVV 18000	14.7	40.0	50.2	56.8	60.7	61.8	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IVV 14000	15.1	40.0	50.9	57.5	61.8	62.8	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IVV 12000	15.1	40.7	51.2	57.9	62.5	63.5	63.9	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IVV 10000	15.1	41.0	51.9	59.0	63.5	64.6	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IVV 9000	15.1	41.0	51.9	59.0	63.5	64.6	64.9	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IVV 8000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 7000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 6000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 5000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 4500	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 4000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 3500	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 3000	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 2500	15.1	41.0	51.9	59.0	63.5	64.9	65.3	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IVV 2000	15.1	42.1	52.6	59.7	64.2	65.6	66.0	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
IVV 1800	16.1	42.5	53.0	60.0	64.6	66.0	66.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
IVV 1500	17.2	45.6	56.5	63.5	68.1	69.5	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
IVV 1200	19.3	49.8	61.4	69.1	74.0	75.4	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IVV 1000	19.7	53.3	66.3	75.1	81.8	83.2	84.2	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IVV 900	19.7	53.7	67.4	76.1	83.2	84.6	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IVV 800	19.7	54.4	68.1	77.2	84.2	86.0	88.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IVV 700	19.7	54.4	68.4	78.3	86.0	88.1	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IVV 600	19.7	54.4	68.4	79.0	86.7	89.1	91.9	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
IVV 500	19.7	54.4	68.4	79.0	87.4	90.9	94.0	95.1	95.1	96.5	96.8	96.8	96.8	96.8	96.8	96.8
IVV 400	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.5	96.5	97.9	98.3	98.3	98.3	98.3	98.3	98.3
IVV 300	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.8	96.8	99.3	99.7	99.7	99.7	99.7	99.7	99.7
IVV 200	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.8	96.8	99.3	99.7	99.7	100.0	100.0	100.0	100.0
IVV 100	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.8	96.8	99.3	99.7	99.7	100.0	100.0	100.0	100.0
IVV 0	19.7	54.7	68.8	79.3	87.7	91.9	95.4	96.8	96.8	99.3	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 285

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 3%	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1 1/8	≥ 1	≥ 3/4	≥ 1/2	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	29.4	61.0	67.0	71.9	74.7	74.7	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 20000	57.2	61.0	68.8	73.7	76.5	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 18000	50.2	61.0	68.8	73.7	76.5	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 16000	50.2	61.0	68.8	73.7	76.5	76.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 14000	51.2	62.5	69.8	75.1	77.9	77.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 12000	50.9	63.5	71.2	76.5	79.3	79.3	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
IV 10000	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 9000	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 8000	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 7000	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 6000	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 5000	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 4800	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 4000	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 3500	50.9	64.2	71.9	77.2	80.0	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
IV 3000	51.2	64.6	72.3	77.5	80.4	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 2500	51.2	64.6	72.3	77.5	80.4	80.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 2000	51.9	65.6	73.3	78.6	81.4	81.4	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
IV 1800	52.3	66.0	73.7	79.0	81.8	81.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 1500	52.6	67.4	75.1	80.4	83.2	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
IV 1200	54.7	67.5	77.2	82.8	85.6	85.6	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 1000	54.7	72.6	80.7	86.3	89.8	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 900	55.1	73.0	81.4	87.0	90.5	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 800	55.1	73.7	82.8	88.8	92.6	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 700	55.1	74.4	84.6	91.2	95.8	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
IV 600	55.1	74.7	85.3	92.3	98.3	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	55.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	55.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	55.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	55.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	55.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	55.1	74.7	85.6	93.0	98.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 485

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

JUL

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	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 3/16	≥ ¼	≥ 0	
NO CEILING	38.5	60.0	72.2	74.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	
≥ 20000	39.7	71.0	75.6	77.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	
IV 18000	39.7	71.0	75.6	77.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	
IV 16000	39.7	71.0	75.6	77.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	
IV 14000	39.7	71.0	76.1	78.2	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	
IV 12000	39.7	72.7	76.9	79.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	
IV 10000	39.7	73.9	78.2	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	
IV 9000	39.7	73.9	78.2	81.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	
IV 8000	39.7	73.9	78.2	80.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	
IV 7000	40.2	74.4	78.6	80.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
IV 6000	40.2	74.4	78.6	80.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	
IV 5000	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
IV 4500	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
IV 4000	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
IV 3500	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
IV 3000	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
IV 2500	40.6	74.8	79.1	81.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
IV 2000	41.5	76.1	81.3	82.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	
IV 1800	41.7	76.5	81.6	82.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	
IV 1500	42.7	77.4	81.6	83.8	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	
IV 1200	44.9	79.5	83.8	85.9	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	
IV 1000	47.3	83.8	88.0	90.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	
IV 900	47.4	84.6	89.3	91.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	
IV 800	49.7	86.8	91.9	94.4	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	
IV 700	48.7	87.2	92.3	95.3	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	
IV 600	49.2	87.6	92.7	95.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	
IV 500	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 400	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 300	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 200	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 100	49.2	88.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
IV 0	47.2	86.0	93.6	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TOTAL NUMBER OF OBSERVATIONS 234

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-92

YEARS

JUL

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	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	39.2	65.6	68.7	70.0	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
≥ 20000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 18000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 16000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 14000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 12000	39.2	67.0	70.0	71.4	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 10000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 9000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 8000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 7000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 6000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 5000	39.2	68.3	71.4	72.7	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IV 4500	39.2	68.7	71.8	73.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
IV 4000	39.2	68.7	71.8	73.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
IV 3500	39.2	68.7	71.8	73.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
IV 3000	39.2	68.7	71.8	73.1	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
IV 2500	39.2	69.2	72.3	73.6	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
IV 2000	39.7	70.0	73.1	74.5	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 1800	40.1	70.5	73.6	74.9	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 1500	41.0	72.7	76.2	77.5	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
IV 1200	42.7	75.8	79.3	80.6	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
IV 1000	47.1	83.7	87.2	88.6	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 900	47.6	85.9	89.9	91.2	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 800	48.0	86.3	90.8	92.1	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 700	48.0	87.2	92.1	93.8	96.5	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 600	48.1	88.6	93.8	95.2	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
IV 500	48.0	88.6	93.8	95.0	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400	48.0	88.6	94.3	96.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	48.0	88.6	94.3	96.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	48.0	88.6	94.3	96.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	48.0	88.6	94.3	96.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	48.0	88.6	94.3	96.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 227

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73, 77-82

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

72

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.7	57.0	61.8	66.0	67.3	67.3	67.3	67.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0
IV 2000	17.7	60.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 1800	17.7	60.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 1600	17.7	60.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 1400	17.7	60.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 1200	17.7	60.8	62.1	67.3	68.6	68.6	68.6	68.6	68.6	69.3	69.3	69.3	69.3	69.3	69.3	69.3
IV 1000	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 900	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 800	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 700	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 600	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 500	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 450	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 400	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 350	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 300	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 250	17.7	61.4	62.8	68.0	69.3	69.3	69.3	69.3	69.3	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 2000	18.3	62.8	64.1	69.3	70.6	70.6	70.6	70.6	70.6	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 1800	18.3	63.4	64.7	69.9	71.2	71.2	71.2	71.2	71.2	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 1600	18.3	63.4	64.7	69.9	71.2	71.2	71.2	71.2	71.2	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 1400	18.3	63.4	64.7	69.9	71.2	71.2	71.2	71.2	71.2	71.9	71.9	71.9	71.9	71.9	71.9	71.9
IV 1200	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 1000	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 900	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 800	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 700	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 600	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 500	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 450	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 400	20.3	64.1	65.4	70.6	71.9	71.9	71.9	71.9	71.9	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 300	21.6	62.4	66.9	76.5	77.8	77.8	77.8	77.8	77.8	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 200	21.6	62.4	66.9	76.5	77.8	77.8	77.8	77.8	77.8	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 100	21.6	62.4	66.9	76.5	77.8	77.8	77.8	77.8	77.8	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 0	21.6	62.4	66.9	76.5	77.8	77.8	77.8	77.8	77.8	78.5	78.5	78.5	78.5	78.5	78.5	78.5

TOTAL NUMBER OF OBSERVATIONS

153

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0	
NO CEILING	23.2	40.5	53.3	57.6	59.7	60.1	60.4	60.4	60.4	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
≥ 20000	23.6	41.7	54.8	59.2	61.3	61.7	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IVV 18000	23.6	41.7	54.8	59.2	61.3	61.7	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IVV 16000	23.6	41.7	54.8	59.2	61.3	61.7	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IVV 14000	23.6	50.0	55.3	59.7	61.9	62.2	62.5	62.5	62.5	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IVV 12000	23.7	50.5	55.8	60.2	62.5	62.8	63.1	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IVV 10000	23.7	51.3	56.6	61.1	63.4	63.7	64.0	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IVV 9000	23.8	51.3	56.6	61.1	63.4	63.7	64.0	64.0	64.0	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
IVV 8000	23.8	51.4	56.7	61.2	63.4	63.6	64.1	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
IVV 7000	23.8	51.5	56.8	61.3	63.6	64.1	64.2	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IVV 6000	23.9	51.5	56.8	61.3	63.6	64.0	64.2	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IVV 5000	23.9	51.6	57.0	61.4	63.7	64.1	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IVV 4500	23.9	51.6	57.0	61.4	63.7	64.1	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IVV 4000	23.9	51.6	57.0	61.4	63.7	64.1	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IVV 3500	23.9	51.6	57.0	61.4	63.7	64.1	64.4	64.4	64.4	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
IVV 3000	24.0	51.7	57.1	61.6	63.8	64.2	64.5	64.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IVV 2500	24.1	51.9	57.3	61.8	64.1	64.4	64.7	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
IVV 2000	24.7	52.7	58.1	62.6	64.9	65.3	65.5	65.7	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
IVV 1800	24.0	52.1	58.5	62.9	65.2	65.6	65.9	66.0	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IVV 1500	26.2	52.3	62.1	66.7	68.9	69.4	69.7	69.8	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IVV 1200	27.7	60.0	66.1	71.1	73.4	73.8	74.3	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
IVV 1000	29.2	65.5	72.7	76.3	82.1	82.8	83.2	83.4	83.4	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
IVV 900	29.4	66.4	74.0	79.0	83.9	84.6	85.1	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IVV 800	29.8	67.0	75.6	82.5	87.4	88.6	89.7	90.7	90.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IVV 700	29.8	68.4	76.9	84.3	89.7	91.1	92.7	93.1	93.1	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5
IVV 600	29.6	68.7	77.5	85.4	90.9	92.6	94.6	95.0	95.0	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IVV 500	29.8	68.7	77.9	86.2	92.1	93.9	96.2	97.2	97.2	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IVV 400	29.8	68.8	78.0	86.4	92.2	94.4	96.7	97.9	97.9	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IVV 300	29.8	68.8	78.0	86.4	92.2	94.5	96.8	98.2	98.3	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IVV 200	29.8	68.8	78.0	86.4	92.2	94.5	96.8	98.2	98.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVV 100	29.8	68.8	78.0	86.4	92.2	94.5	96.8	98.2	98.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5
IVV 0	29.8	68.8	78.0	86.4	92.2	94.5	96.8	98.2	98.3	99.3	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

1465

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73

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	≥ ¼	≥ 0
NO CEILING																
IV 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (LST)

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

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

97
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 3/16	≥ ¼	≥ 0	
NO CEILING	3.8	6.9	10.7	11.8	14.5	15.2	16.3	16.3	16.3	16.6	16.6	16.6	17.0	17.0	17.0	17.3
≥ 20000	3.8	7.3	11.1	12.1	14.9	15.6	16.6	16.6	16.6	17.0	17.0	17.0	17.3	17.3	17.3	17.7
IV 18000	3.8	7.3	11.1	12.1	14.9	15.6	16.6	16.6	16.6	17.0	17.0	17.0	17.3	17.3	17.3	17.7
IV 16000	3.8	7.3	11.1	12.1	14.9	15.6	16.6	16.6	16.6	17.0	17.0	17.0	17.3	17.3	17.3	17.7
IV 14000	3.8	7.3	11.1	12.1	15.2	15.9	17.0	17.0	17.0	17.3	17.3	17.3	17.7	17.7	17.7	18.0
IV 12000	3.8	8.3	11.8	12.8	15.9	16.6	17.7	17.7	17.7	18.0	18.0	18.0	18.3	18.3	18.3	18.7
IV 10000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.3	18.3	18.7	18.7	18.7	19.0	19.0	19.0	19.4
IV 9000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.3	18.3	18.7	18.7	18.7	19.0	19.0	19.0	19.4
IV 8000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.3	18.3	18.7	18.7	18.7	19.0	19.0	19.0	19.4
IV 7000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.3	18.3	18.7	18.7	18.7	19.0	19.0	19.0	19.4
IV 6000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
IV 5000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
IV 4500	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
IV 4000	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
IV 3500	3.8	8.3	12.1	13.2	16.6	17.3	18.3	18.7	18.7	19.0	19.0	19.0	19.4	19.4	19.4	19.7
IV 3000	4.5	7.0	12.8	13.8	17.3	18.0	19.0	19.4	19.4	19.7	19.7	19.7	20.1	20.1	20.1	20.4
IV 2500	6.6	11.4	15.2	16.3	19.7	20.4	21.5	21.8	21.8	22.2	22.2	22.2	22.5	22.5	22.5	22.8
IV 2000	9.7	14.9	18.7	19.7	23.2	23.9	24.9	25.3	25.3	25.6	25.6	25.6	26.0	26.0	26.0	26.3
IV 1800	10.4	15.6	19.4	20.4	23.9	24.6	25.6	26.0	26.0	26.3	26.3	26.3	26.6	26.6	26.6	27.0
IV 1500	13.2	23.9	29.8	31.1	34.6	35.3	36.3	36.7	36.7	37.0	37.0	37.0	37.4	37.4	37.4	37.7
IV 1200	14.5	30.5	37.4	41.2	45.3	46.0	47.1	47.4	47.4	47.8	47.8	47.8	48.1	48.1	48.1	48.4
IV 1000	15.6	36.7	49.1	57.1	64.7	66.1	67.5	67.8	67.8	68.2	68.2	68.2	68.5	68.5	68.5	68.9
IV 900	15.6	37.7	50.5	59.5	67.5	69.2	71.6	72.0	72.0	72.3	72.3	72.3	72.7	72.7	72.7	73.0
IV 800	15.6	38.8	53.3	62.6	74.7	77.9	82.0	83.0	83.0	83.4	83.4	83.4	83.7	83.7	83.7	84.1
IV 700	15.6	38.8	53.3	63.0	78.2	82.0	87.2	88.2	88.2	88.6	88.6	88.6	88.9	88.9	88.9	89.3
IV 600	15.6	38.8	53.3	63.0	78.9	83.0	88.9	90.0	90.0	90.7	90.7	90.7	91.0	91.0	91.0	91.4
IV 500	15.6	38.8	53.3	63.0	79.2	83.4	89.6	91.7	91.7	93.1	93.1	93.1	93.8	93.8	93.8	94.1
IV 400	15.6	38.8	53.3	63.0	79.2	84.1	90.7	92.7	92.7	94.1	94.1	94.1	95.2	95.2	95.2	95.9
IV 300	15.6	38.8	53.3	63.0	79.2	84.1	90.7	93.1	93.1	94.5	94.5	94.5	95.9	95.9	95.9	96.5
IV 200	15.6	38.8	53.3	63.0	79.2	84.1	90.7	93.1	93.1	94.5	94.5	94.5	96.9	96.9	96.9	97.2
IV 100	15.6	38.8	53.3	63.0	79.2	84.1	90.7	93.1	93.1	94.5	94.5	94.5	96.9	96.9	96.9	97.2
IV 0	15.6	38.8	53.3	63.0	79.2	84.1	90.7	93.1	93.1	94.5	94.5	94.5	96.9	96.9	96.9	97.2

TOTAL NUMBER OF OBSERVATIONS 289

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

13-82

AUG

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	19.7	45.3	58.1	61.9	65.1	66.4	68.2	68.5	68.5	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 20000	18.0	45.3	58.1	61.9	65.1	66.4	68.5	68.9	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 18000	19.0	45.3	58.1	61.9	65.1	66.4	68.5	68.9	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 14000	18.0	45.3	58.1	61.9	65.1	66.4	68.5	68.9	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 14000	18.0	45.3	58.1	61.9	65.1	66.4	68.5	68.9	68.9	69.6	69.6	69.6	69.6	69.6	69.6	69.6
IV 12000	18.0	45.7	58.5	62.6	65.7	67.5	69.6	69.9	69.9	70.6	70.6	70.6	70.6	70.6	70.6	70.6
IV 10000	18.0	45.7	58.8	63.0	66.8	68.5	70.6	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 9000	18.0	45.7	58.8	63.0	66.8	68.5	70.6	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 8000	18.0	45.7	58.8	63.0	66.8	68.5	70.6	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 7000	18.0	45.7	58.8	63.0	66.8	68.5	70.6	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 6000	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 5000	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 4500	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 4000	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 3500	18.3	46.0	59.2	63.3	67.1	68.9	70.9	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 3000	18.7	46.4	59.5	63.7	67.5	69.2	71.3	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
IV 2500	19.7	47.4	60.6	64.7	68.5	70.2	72.3	72.7	72.7	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 2000	20.4	48.4	62.3	66.4	70.2	72.0	74.1	74.4	74.4	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 1800	20.8	48.8	62.6	66.8	70.6	72.3	74.4	74.7	74.7	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 1500	23.5	52.6	67.1	72.7	76.5	78.2	80.3	80.6	80.6	81.3	81.3	81.3	81.3	81.3	81.3	81.3
IV 1200	23.5	53.6	68.5	75.1	79.2	81.0	83.0	83.4	83.4	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IV 1000	23.5	54.3	70.9	78.9	83.7	85.8	88.2	88.6	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 900	23.5	54.3	71.3	79.6	84.4	86.5	89.3	89.6	89.6	90.3	90.3	90.3	90.3	90.3	90.3	90.3
IV 800	23.5	54.3	72.3	80.6	86.5	89.3	92.4	92.7	92.7	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 700	23.5	54.3	72.7	81.0	87.2	90.7	94.1	94.5	94.5	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 600	23.5	54.3	72.7	81.0	87.5	91.7	95.2	95.9	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 500	23.5	54.7	73.4	81.7	88.2	92.4	95.9	96.5	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 400	23.5	55.0	73.7	82.0	88.6	92.7	96.2	96.9	96.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 300	23.5	55.0	73.7	82.0	88.6	92.7	96.5	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 200	23.5	55.0	73.7	82.0	88.6	92.7	96.5	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 100	23.5	55.0	73.7	82.0	88.6	92.7	96.5	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 0	23.5	55.0	73.7	82.0	88.6	92.7	96.5	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS

289

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

735
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-02
YEAR

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L.S.V.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	39.5	67.5	76.1	78.9	81.7	81.7	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
≥ 20000	41.1	68.5	77.2	80.3	83.0	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 18000	40.1	68.5	77.2	80.3	83.0	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 16000	40.1	68.5	77.2	80.3	83.0	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 14000	40.1	68.5	77.2	80.3	83.0	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
IV 12000	40.5	68.9	77.9	81.0	83.7	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IV 10000	41.2	69.6	78.6	82.0	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 9000	41.2	69.6	78.6	82.0	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
IV 8000	41.2	69.9	78.9	82.4	85.5	85.5	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 7000	41.2	69.9	78.9	82.4	85.5	85.5	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 6000	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 5000	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 4500	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 4000	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 3500	41.2	69.9	79.2	82.7	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 3000	41.5	70.2	79.6	83.0	86.2	86.2	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IV 2500	41.5	70.2	79.6	83.0	86.2	86.2	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
IV 2000	41.7	70.6	79.9	83.4	86.5	86.5	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 1800	41.9	70.6	79.9	83.4	86.5	86.5	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 1500	42.6	72.3	82.0	85.5	88.6	88.6	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
IV 1200	42.6	73.7	83.4	86.9	90.0	90.7	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
IV 1000	42.9	76.5	87.5	91.4	94.8	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 900	42.9	76.5	87.5	91.4	94.8	95.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 800	42.9	76.5	87.5	91.4	94.8	96.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 700	42.9	76.5	87.5	91.7	95.2	96.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 600	42.9	76.5	87.5	91.7	95.2	96.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 500	42.9	76.5	87.5	91.7	95.2	96.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 400	42.9	76.5	87.5	91.7	95.2	96.9	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 300	42.9	76.5	87.5	91.7	95.2	97.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 200	42.9	76.5	87.5	91.7	95.2	97.2	99.3	99.3	99.3	99.3	99.7	99.7	99.7	100.0	100.0	100.0
IV 100	42.9	76.5	87.5	91.7	95.2	97.2	99.3	99.3	99.3	99.7	99.7	99.7	100.0	100.0	100.0	100.0
IV 0	42.9	76.5	87.5	91.7	95.2	97.2	99.3	99.3	99.3	99.7	99.7	99.7	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 289

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MONTH

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0
NO CEILING	44.1	70.9	75.2	77.5	78.7	78.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
≥ 20000	46.1	72.1	76.7	79.1	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IVIV 18000	46.1	72.1	76.7	79.1	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IVIV 16000	46.1	72.1	76.7	79.1	80.2	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
IVIV 14000	46.1	73.6	78.3	80.6	81.8	81.8	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
IVIV 12000	46.1	74.4	79.1	81.4	82.6	82.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IVIV 10000	46.9	75.6	80.2	82.6	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IVIV 9000	46.9	75.6	80.2	82.6	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IVIV 8000	46.9	75.6	80.2	82.6	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IVIV 7000	46.9	75.6	80.2	82.6	83.7	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
IVIV 6000	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVIV 5000	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVIV 4500	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVIV 4000	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVIV 3500	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVIV 3000	46.9	75.6	80.2	83.0	84.5	84.5	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
IVIV 2500	47.3	76.0	80.6	83.3	84.9	84.9	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IVIV 2000	48.5	77.1	81.8	84.5	86.1	86.1	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IVIV 1800	48.8	77.5	82.2	84.9	86.4	86.4	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
IVIV 1500	49.6	78.7	83.3	86.1	87.6	87.6	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
IVIV 1200	52.3	83.0	87.6	90.7	92.6	92.6	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
IVIV 1000	53.5	85.7	90.3	93.4	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IVIV 900	53.5	85.7	90.3	93.4	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IVIV 800	53.5	85.7	90.3	93.4	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IVIV 700	53.5	86.4	91.1	94.6	97.7	98.1	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IVIV 600	53.5	86.4	91.1	95.0	98.1	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
IVIV 500	53.9	86.8	91.5	95.4	98.5	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IVIV 400	53.9	86.8	91.5	95.4	98.5	98.8	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IVIV 300	53.9	86.8	91.5	95.4	98.8	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 200	53.9	86.8	91.5	95.4	98.8	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 100	53.9	86.8	91.5	95.4	98.8	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IVIV 0	53.9	86.8	91.5	95.4	98.8	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
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	34.2	63.4	67.9	69.2	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
≥ 20000	34.6	67.5	70.4	71.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 18000	34.6	67.9	70.8	72.1	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
IV 14000	34.6	67.9	70.8	72.1	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
IV 14000	34.6	68.3	71.3	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
IV 12000	34.6	68.8	72.1	73.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 10000	35.0	69.6	72.9	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 9000	35.0	69.6	72.9	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 8000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 7000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 6000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 5000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 4500	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 4000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 3500	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 3000	35.0	69.6	72.9	74.2	75.0	75.0	75.0	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 2500	36.3	70.8	74.2	75.4	76.3	76.3	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
IV 2000	38.3	73.3	76.7	77.9	78.8	78.8	78.8	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
IV 1800	38.3	73.3	76.7	77.9	78.8	78.8	78.8	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
IV 1500	39.6	76.3	79.6	80.8	81.7	81.7	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 1200	41.3	78.8	82.9	84.6	85.8	85.8	85.8	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 1000	42.1	83.3	88.3	90.8	92.5	92.5	92.5	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
IV 900	42.1	83.8	89.6	92.9	94.6	95.0	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 800	42.1	85.0	90.8	94.2	96.3	96.7	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 700	42.1	85.4	91.3	94.6	97.1	97.5	97.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 600	42.1	85.4	91.3	94.6	97.5	97.9	97.9	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
IV 500	42.1	85.4	91.3	94.6	97.9	98.3	98.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400	42.5	85.8	91.7	95.0	98.3	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	42.5	85.8	91.7	95.0	98.3	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	42.5	85.8	91.7	95.0	98.3	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	42.5	85.8	91.7	95.0	98.3	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	42.5	85.8	91.7	95.0	98.3	98.8	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73, 77-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	18.7	49.3	51.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 20000	18.7	49.3	51.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 18000	18.7	49.0	51.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 16000	19.7	49.7	51.6	53.6	54.2	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
IV 14000	19.4	49.7	52.3	54.2	54.8	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
IV 12000	19.4	50.3	52.9	54.8	55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
IV 10000	19.4	51.6	54.2	56.1	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 9000	19.4	51.6	54.2	56.1	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 8000	19.4	51.6	54.2	56.1	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 7000	19.4	51.6	54.2	56.1	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 6000	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 5000	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 4500	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 4000	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 3500	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 3000	19.4	52.3	54.8	56.8	57.4	57.4	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
IV 2500	21.4	54.8	57.4	59.4	60.0	60.0	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IV 2000	22.6	55.5	58.1	60.0	60.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 1800	22.6	55.5	58.1	60.0	60.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 1500	25.2	65.2	67.7	69.7	70.3	70.3	70.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
IV 1200	25.2	70.3	72.9	75.5	76.8	76.8	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 1000	25.2	82.6	85.2	87.7	89.7	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
IV 900	25.2	82.6	87.1	90.3	92.3	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 800	25.2	83.9	89.0	92.3	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
IV 700	25.2	84.5	89.7	94.2	96.1	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 600	25.2	84.5	89.7	94.2	96.1	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
IV 500	25.2	85.2	90.3	94.8	96.8	97.4	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
IV 400	25.2	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	25.2	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	25.2	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	25.2	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	25.2	85.2	90.3	95.5	97.4	98.1	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L & Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	26.7	51.1	56.2	56.5	60.5	60.8	61.6	61.7	61.7	61.9	61.9	61.9	62.7	62.7	62.0	62.7
IV 20000	26.9	51.9	57.2	59.5	61.4	61.8	62.6	62.8	62.8	62.9	62.9	62.9	63.0	63.0	63.0	63.1
IV 18000	26.9	51.9	57.2	59.5	61.5	61.9	62.7	62.8	62.8	63.0	63.0	63.0	63.1	63.1	63.1	63.1
IV 16000	26.9	50.9	57.2	59.5	61.5	61.9	62.7	62.8	62.8	63.0	63.0	63.0	63.1	63.1	63.1	63.1
IV 14000	27.0	51.3	57.8	59.9	62.0	62.4	63.1	63.3	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.6
IV 12000	27.1	51.8	58.3	60.6	62.7	63.1	63.9	64.1	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.4
IV 10000	27.4	52.5	59.0	61.4	63.7	64.2	65.0	65.1	65.1	65.3	65.3	65.3	65.4	65.4	65.4	65.4
IV 9000	27.4	52.5	59.0	61.4	63.7	64.2	65.0	65.1	65.1	65.3	65.3	65.3	65.4	65.4	65.4	65.4
IV 8000	27.4	52.6	59.1	61.5	63.9	64.3	65.1	65.2	65.2	65.4	65.4	65.4	65.5	65.5	65.5	65.6
IV 7000	27.4	52.6	59.1	61.5	63.9	64.3	65.1	65.2	65.2	65.4	65.4	65.4	65.5	65.5	65.5	65.6
IV 6000	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.1
IV 5000	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.1
IV 4500	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.1
IV 4000	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.1
IV 3500	27.5	52.7	59.3	61.8	64.2	64.7	65.4	65.8	65.8	66.0	66.0	66.0	66.0	66.0	66.0	66.1
IV 3000	27.7	53.0	59.5	62.0	64.5	64.9	65.7	66.0	66.0	66.2	66.2	66.2	66.3	66.3	66.3	66.4
IV 2500	28.8	54.1	60.7	63.2	65.6	66.1	66.9	67.2	67.2	67.4	67.4	67.4	67.5	67.5	67.5	67.5
IV 2000	29.2	55.7	62.8	64.9	67.4	67.8	68.6	68.9	68.9	69.1	69.1	69.1	69.2	69.2	69.2	69.3
IV 1800	30.5	56.0	62.7	65.2	67.6	68.1	68.9	69.2	69.2	69.4	69.4	69.4	69.5	69.5	69.5	69.5
IV 1500	32.3	58.3	67.5	70.4	72.8	73.3	74.1	74.4	74.4	74.6	74.6	74.6	74.6	74.6	74.6	74.7
IV 1200	33.3	63.6	71.3	75.0	77.8	78.4	79.2	79.5	79.5	79.7	79.7	79.7	79.8	79.8	79.8	79.8
IV 1000	33.3	67.9	77.3	82.3	86.1	87.0	87.9	88.2	88.2	88.4	88.4	88.4	88.5	88.5	88.5	88.6
IV 900	33.9	68.1	78.1	83.5	87.5	88.4	89.6	90.0	90.0	90.1	90.1	90.1	90.2	90.2	90.2	90.3
IV 800	33.9	68.7	79.2	84.8	89.8	91.3	92.9	93.4	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.7
IV 700	33.9	68.9	79.6	85.4	91.3	93.2	95.1	95.6	95.6	95.8	95.8	95.8	95.9	95.9	95.9	95.9
IV 600	33.9	68.9	79.6	85.5	91.6	93.7	95.8	96.3	96.3	96.6	96.6	96.6	96.7	96.7	96.7	96.7
IV 500	34.7	69.1	79.8	85.7	92.0	94.1	96.7	97.4	97.4	97.8	97.8	97.8	97.9	97.9	97.9	98.0
IV 400	34.7	69.3	80.0	85.9	92.2	94.4	97.0	97.8	97.8	98.2	98.2	98.2	98.4	98.4	98.5	98.6
IV 300	34.7	69.3	80.0	85.9	92.2	94.5	97.2	98.0	98.0	98.5	98.5	98.5	98.7	98.7	98.7	98.8
IV 200	34.7	69.3	80.0	85.9	92.3	94.6	97.2	98.1	98.1	98.6	98.6	98.6	98.8	98.8	98.8	98.8
IV 100	34.7	69.3	80.0	85.9	92.3	94.6	97.2	98.1	98.1	98.6	98.6	98.6	98.8	98.8	98.8	98.8
IV 0	34.7	69.3	80.0	85.9	92.3	94.6	97.2	98.1	98.1	98.6	98.6	98.6	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS 1922

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BLACH, CALIFORNIA

STATION NAME

73

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

31
HOURS (L S T)

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

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

515
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

4
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 20000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 18000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 16000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 14000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 12000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 10000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 9000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 8000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 7000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 6000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 5000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 4500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 4000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 3500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 3000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 2500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 2000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1800	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1200	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 900	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 800	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 700	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 600	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 400	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 300	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 200	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 100	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION: IMPERIAL BEACH, CALIFORNIA YEAR: 77-82 MONTH: SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

17 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	9.2	10.5	22.4	25.4	26.1	26.5	27.6	28.3	28.3	29.0	29.0	29.0	27.4	29.4	29.8	29.4
≥ 20000	9.2	10.5	22.4	25.7	26.5	26.6	27.9	28.7	28.7	29.4	29.4	29.4	27.8	29.8	29.8	29.8
IV 18000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
IV 16000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
IV 14000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	29.8	29.8	29.8	29.8
IV 12000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	30.2	30.2	30.2	30.2
IV 10000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	31.6	31.6	31.6	31.6
IV 9000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	31.6	31.6	31.6	31.6
IV 8000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	31.6	31.6	31.6	31.6
IV 7000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	32.0	32.0	32.0	32.0
IV 6000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	32.4	32.4	32.4	32.4
IV 5000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	32.4	32.4	32.4	32.4
IV 4500	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	32.7	32.7	32.7	32.7
IV 4000	9.2	10.5	22.4	25.7	26.5	26.8	27.9	28.7	28.7	29.4	29.4	29.4	33.5	33.5	33.5	33.5
IV 3500	10.3	21.0	26.8	30.2	30.9	31.3	32.4	33.1	33.1	33.8	33.8	33.8	34.2	34.2	34.2	34.2
IV 3000	10.7	21.7	27.9	31.3	32.0	32.4	33.5	34.2	34.2	34.9	34.9	34.9	35.3	35.3	35.3	35.3
IV 2500	14.0	27.6	34.2	37.5	38.2	38.6	39.7	40.4	40.4	41.2	41.2	41.2	41.5	41.5	41.5	41.5
IV 2000	16.5	31.6	38.6	42.3	43.4	43.8	44.9	45.6	45.6	46.3	46.3	46.3	46.7	46.7	46.7	46.7
IV 1800	16.9	32.1	39.7	43.4	44.5	44.9	46.0	46.7	46.7	47.4	47.4	47.4	47.8	47.8	47.8	47.8
IV 1500	19.5	37.1	46.3	51.1	53.3	53.7	55.2	55.9	55.9	56.6	56.6	56.6	57.0	57.0	57.0	57.0
IV 1200	19.9	40.4	51.8	58.1	61.0	61.4	62.9	63.6	63.6	64.3	64.3	64.3	64.7	64.7	64.7	64.7
IV 1000	19.9	44.1	58.1	65.1	69.5	70.2	72.1	72.8	72.8	73.5	73.5	73.5	73.9	73.9	73.9	73.9
IV 900	19.9	44.5	58.8	66.2	71.0	71.7	73.5	74.3	74.3	75.0	75.0	75.0	75.4	75.4	75.4	75.4
IV 800	19.9	44.5	59.2	67.3	75.4	76.1	79.8	80.5	80.5	81.6	81.6	81.6	82.4	82.4	82.4	82.4
IV 700	20.2	44.9	59.9	68.4	76.8	77.6	82.0	83.8	83.8	84.9	84.9	84.9	85.7	85.7	85.7	85.7
IV 600	20.2	44.9	59.9	68.8	78.7	80.2	84.6	86.8	86.8	88.2	88.2	88.2	89.7	89.7	89.7	89.7
IV 500	20.2	44.9	59.9	68.8	79.0	80.9	85.7	89.7	89.7	90.8	90.8	90.8	91.2	91.2	91.2	91.2
IV 400	20.2	45.2	60.3	69.1	79.4	81.3	86.4	90.1	90.1	92.3	92.3	92.3	93.4	93.4	93.4	93.4
IV 300	20.2	45.2	60.3	69.1	79.4	81.3	86.8	90.8	90.8	93.0	93.0	93.0	94.1	94.1	94.1	94.1
IV 200	20.2	45.2	60.3	69.1	79.4	81.3	86.8	90.8	90.8	93.8	93.8	93.8	94.9	94.9	94.9	94.9
IV 100	20.2	45.2	60.3	69.1	79.4	81.3	86.8	90.8	90.8	93.8	93.8	93.8	97.1	97.1	97.1	97.1
IV 0	20.2	45.2	60.3	69.1	79.4	81.3	87.1	91.2	91.2	94.1	94.1	94.1	95.2	95.2	95.2	95.2

TOTAL NUMBER OF OBSERVATIONS 272

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.7	30.4	46.0	51.1	54.4	55.9	58.5	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
≥ 2000	17.7	31.1	46.7	52.2	55.5	57.0	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 18000	17.7	37.1	46.7	52.2	55.5	57.0	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 16000	17.7	37.1	46.7	52.2	55.5	57.0	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 14000	17.7	37.1	46.7	52.2	55.5	57.0	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
IV 12000	17.7	37.9	47.4	52.9	56.3	57.7	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
IV 10000	17.7	38.6	48.5	54.0	57.4	58.8	61.4	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IV 9000	17.7	38.6	48.5	54.0	57.4	58.8	61.4	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IV 8000	18.0	39.0	48.9	54.4	57.7	59.2	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 7000	18.0	39.0	48.9	54.4	57.7	59.2	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 6000	18.0	39.0	48.9	54.4	57.7	59.2	61.8	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 5000	18.4	39.3	49.3	54.8	58.1	59.6	62.1	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IV 4500	18.4	39.3	49.3	54.8	58.1	59.6	62.1	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IV 4000	18.8	39.7	49.6	55.2	58.5	59.9	62.5	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 3500	20.2	41.5	51.5	57.0	60.3	61.8	64.3	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 3000	21.7	43.8	53.7	59.6	62.9	64.3	66.9	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 2500	22.8	45.2	55.5	61.4	64.7	66.2	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 2000	25.4	51.8	62.9	68.8	72.1	73.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 1800	25.4	51.8	62.9	68.8	72.1	73.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
IV 1500	25.5	55.7	67.3	73.9	77.9	79.4	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
IV 1200	26.8	57.7	71.1	77.6	82.7	83.5	86.4	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 1000	27.9	59.2	72.4	80.2	85.7	87.1	90.4	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 900	27.9	59.2	72.8	80.5	86.7	87.5	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
IV 800	27.9	59.2	73.2	81.3	87.1	89.3	92.7	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 700	27.9	59.2	73.9	82.0	88.6	90.8	94.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 600	27.9	59.2	74.3	82.4	89.7	91.2	94.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 500	27.9	59.2	74.6	82.7	89.7	91.9	95.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 400	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 300	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 200	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 100	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 0	27.9	59.6	75.0	83.1	90.4	92.7	96.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8

TOTAL NUMBER OF OBSERVATIONS

272

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	31.5	55.2	62.5	64.7	66.5	67.3	68.4	68.4	69.4	69.1	69.1	69.1	69.1	69.1	69.1	69.1
IV 20000	31.6	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 18000	31.5	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 16000	31.6	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 14000	31.6	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 12000	31.6	57.4	65.1	67.3	69.1	69.9	71.3	71.3	71.3	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 10000	31.6	58.1	66.2	68.8	70.6	71.3	72.8	72.8	72.8	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 9000	31.6	58.1	66.2	68.8	70.6	71.3	72.8	72.8	72.8	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 8000	31.6	58.5	66.5	69.5	71.3	72.1	73.5	73.5	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 7000	31.6	58.5	66.5	69.5	71.3	72.1	73.5	73.5	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 6000	31.6	58.5	66.5	69.5	71.3	72.1	73.5	73.5	73.5	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 5000	32.1	57.2	67.3	70.2	72.1	72.8	74.3	74.3	74.3	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4500	32.0	57.2	67.3	70.2	72.1	72.8	74.3	74.3	74.3	75.0	75.0	75.0	75.0	75.0	75.0	75.0
IV 4000	32.4	57.6	67.7	70.6	72.4	73.2	74.6	74.6	74.6	75.4	75.4	75.4	75.4	75.4	75.4	75.4
IV 3500	33.1	60.3	68.4	71.3	73.2	73.9	75.4	75.4	75.4	76.1	76.1	76.1	76.1	76.1	76.1	76.1
IV 3000	35.3	63.2	71.3	74.3	76.1	76.8	78.3	78.3	78.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 2500	35.7	64.7	72.8	75.7	77.6	78.3	79.8	79.8	79.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 2000	36.8	66.9	75.0	77.9	80.2	80.9	82.4	82.4	82.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5
IV 1800	36.2	67.3	75.4	78.3	80.5	81.3	82.7	82.7	82.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
IV 1500	37.9	67.9	78.3	81.3	83.8	84.6	86.0	86.0	86.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 1200	37.9	71.7	81.3	84.2	87.1	87.9	89.3	89.3	89.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IV 1000	38.2	72.8	83.5	86.4	89.1	90.8	92.3	92.3	92.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
IV 900	38.2	72.8	83.8	87.1	90.4	91.2	93.0	93.0	93.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 800	38.6	73.2	84.9	88.2	91.5	92.3	94.1	94.5	94.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 700	38.6	73.2	84.9	88.2	92.3	93.0	94.9	95.2	95.2	96.7	96.7	96.7	96.7	96.7	96.7	96.7
IV 600	38.6	73.2	85.3	88.6	92.7	93.6	95.6	96.0	96.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 500	38.6	73.2	85.7	88.6	92.7	93.6	95.6	96.0	96.0	97.4	97.4	97.4	97.4	97.4	97.4	97.4
IV 400	38.6	73.5	85.7	89.0	93.7	94.1	96.0	96.3	96.3	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 300	38.6	73.5	85.7	89.0	93.4	94.5	96.7	96.7	96.7	98.2	98.5	98.5	98.5	98.5	98.5	98.5
IV 200	38.6	73.5	85.7	89.0	93.4	94.5	96.7	97.1	97.1	98.5	98.9	98.9	98.9	98.9	98.9	98.9
IV 100	38.6	73.5	85.7	89.3	93.8	94.9	97.1	97.4	97.4	98.9	99.3	99.3	99.3	99.3	99.3	99.3
IV 0	38.6	73.5	85.7	89.3	93.8	94.9	97.1	97.4	97.4	98.9	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS 272

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

13-97

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	34.3	63.1	62.1	62.9	71.6	70.6	71.9	72.3	72.3	72.8	72.8	72.8	73.2	73.2	73.2	73.7
≥ 2000	35.7	64.3	69.8	71.0	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 1800	35.7	64.3	69.8	71.0	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 1600	35.7	64.3	69.8	71.0	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 1400	35.7	64.3	69.8	71.0	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 1200	35.7	64.3	69.8	71.0	72.3	72.3	73.6	74.0	74.0	74.5	74.5	74.5	74.9	74.9	74.9	74.9
≥ 1000	37.5	67.7	73.2	74.5	76.2	76.2	77.5	77.9	77.9	78.3	78.3	78.3	78.7	78.7	78.7	78.7
≥ 900	37.5	67.7	73.2	74.5	76.2	76.2	77.5	77.9	77.9	78.3	78.3	78.3	78.7	78.7	78.7	78.7
≥ 800	37.5	68.1	73.6	75.3	77.0	77.0	78.3	78.7	78.7	79.2	79.2	79.2	79.6	79.6	79.6	79.6
≥ 700	37.5	68.1	73.6	75.3	77.0	77.0	78.3	78.7	78.7	79.2	79.2	79.2	79.6	79.6	79.6	79.6
≥ 600	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 500	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 450	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 400	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 350	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 300	37.5	68.5	74.0	75.7	77.5	77.5	78.7	79.2	79.2	79.6	79.6	79.6	80.0	80.0	80.0	80.0
≥ 2500	41.4	72.3	77.9	79.0	81.3	81.3	82.6	83.0	83.0	83.4	83.4	83.4	83.8	83.8	83.8	83.8
≥ 2000	42.1	74.5	80.7	81.7	83.4	83.4	84.7	85.1	85.1	85.5	85.5	85.5	85.9	85.9	85.9	85.9
≥ 1800	42.1	74.5	80.7	81.7	83.4	83.4	84.7	85.1	85.1	85.5	85.5	85.5	85.9	85.9	85.9	85.9
≥ 1500	44.3	78.3	84.7	85.4	88.1	88.1	89.4	89.8	89.8	90.2	90.2	90.2	90.6	90.6	90.6	90.6
≥ 1200	44.7	80.9	87.7	88.8	91.5	91.5	92.8	93.2	93.2	93.6	93.6	93.6	94.0	94.0	94.0	94.0
≥ 1000	45.5	83.1	90.6	92.8	94.5	94.5	95.7	96.2	96.2	96.6	96.6	96.6	97.0	97.0	97.0	97.0
≥ 900	45.5	83.1	91.1	93.2	94.9	94.9	96.2	96.6	96.6	97.0	97.0	97.0	97.4	97.4	97.4	97.4
≥ 800	45.5	83.1	91.9	94.4	95.7	95.7	97.0	97.4	97.4	97.8	97.8	97.8	98.2	98.2	98.2	98.2
≥ 700	45.5	84.3	92.3	94.5	96.2	96.2	97.5	98.3	98.3	98.7	98.7	98.7	99.1	99.1	99.1	99.1
≥ 600	45.5	84.3	92.3	94.5	96.2	96.2	97.5	98.3	98.3	98.7	98.7	98.7	99.1	99.1	99.1	99.1
≥ 500	45.5	84.3	92.3	94.5	96.2	96.2	97.5	98.3	98.3	98.7	98.7	98.7	99.1	99.1	99.1	99.1
≥ 400	45.5	84.3	92.3	94.5	96.2	96.2	97.5	98.3	98.3	98.7	98.7	98.7	99.1	99.1	99.1	99.1
≥ 300	45.5	84.3	92.3	94.5	96.6	96.6	98.3	98.7	98.7	99.1	99.1	99.1	99.5	99.5	99.5	99.5
≥ 200	45.5	84.3	92.3	94.5	96.6	96.6	98.3	98.7	98.7	99.1	99.1	99.1	99.5	99.5	99.5	99.5
≥ 100	45.5	84.3	92.3	94.5	96.6	96.6	98.3	98.7	98.7	99.1	99.1	99.1	99.5	99.5	99.5	99.5
≥ 0	45.5	84.3	92.3	94.5	96.6	96.6	98.3	98.7	98.7	99.1	99.1	99.1	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	23.5	56.6	67.2	61.5	64.6	64.6	64.6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
IV 20000	23.5	56.6	62.7	63.3	66.4	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 18000	23.5	56.6	62.0	63.3	66.4	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 16000	23.5	56.6	62.0	63.3	66.4	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 14000	24.3	58.7	63.7	65.0	68.1	68.1	68.1	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 12000	24.3	58.7	63.7	65.0	68.1	68.1	68.1	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 10000	24.3	58.7	63.7	65.0	68.1	68.1	68.1	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 9000	24.3	58.7	63.7	65.0	68.1	68.1	68.1	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
IV 8000	24.3	60.2	64.6	65.9	69.0	69.0	69.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 7000	24.3	60.2	64.6	65.9	69.0	69.0	69.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 6000	24.3	60.2	64.6	65.9	69.0	69.0	69.0	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
IV 5000	24.3	60.6	65.0	66.4	69.5	69.5	69.5	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 4500	24.3	60.6	65.0	66.4	69.5	69.5	69.5	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 4000	24.3	61.1	65.5	66.8	69.9	69.9	69.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
IV 3500	25.7	61.5	61.9	67.3	70.4	70.4	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 3000	26.1	62.8	67.3	69.6	71.7	71.7	71.7	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
IV 2500	26.5	64.2	68.6	69.9	73.0	73.0	73.0	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
IV 2000	26.8	67.3	71.7	73.0	76.1	76.1	76.1	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
IV 1800	27.2	67.7	72.1	73.5	76.6	76.6	76.6	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
IV 1500	27.7	73.9	78.8	80.1	83.2	83.2	83.2	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
IV 1200	27.5	77.2	84.5	85.8	88.9	88.9	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
IV 1000	27.7	77.7	88.9	91.6	95.1	95.1	95.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
IV 900	27.5	83.6	91.3	93.4	97.4	97.4	97.4	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
IV 800	27.5	83.6	90.7	93.8	97.8	97.8	97.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 700	27.5	84.1	91.6	95.1	99.1	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 600	27.5	84.1	91.6	95.1	99.1	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 500	27.5	84.1	91.6	95.1	99.1	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 400	27.5	84.1	91.6	95.1	99.1	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 300	27.5	84.1	91.6	95.1	99.1	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 200	27.5	84.1	91.6	95.1	99.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	27.5	84.1	91.6	95.1	99.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	27.5	84.1	91.6	95.1	99.1	99.1	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

226

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73,77-82

SLP
MONTH

STATION

STATION NAME

YEARS

72

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	15.5	47.9	51.4	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.9	54.9
IV 20000	16.2	50.0	54.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.8	57.8
IV 18000	16.2	50.0	54.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.8	57.8
IV 16000	16.2	50.0	54.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.8	57.8
IV 14000	16.2	50.0	54.2	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.8	57.8
IV 12000	16.2	51.4	55.6	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	59.2	59.2
IV 10000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9
IV 9000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9
IV 8000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9
IV 7000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9
IV 6000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9
IV 5000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9
IV 4500	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9
IV 4000	16.2	52.1	56.3	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9
IV 3500	16.2	52.0	57.0	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	60.6	60.6
IV 3000	17.6	53.5	57.0	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	61.3	61.3
IV 2500	17.6	54.2	58.5	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	62.0	62.0
IV 2000	20.4	57.8	62.7	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	65.5	65.5
IV 1800	20.4	58.5	62.7	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	66.2	66.2
IV 1500	23.2	66.2	70.4	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.9	73.9
IV 1200	24.7	75.9	78.2	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
IV 1000	25.1	82.4	87.3	92.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 900	25.1	82.4	87.3	92.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	94.4	94.4
IV 800	25.1	83.8	89.4	94.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.5	96.5
IV 700	25.1	83.8	89.4	94.4	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	96.5	96.5
IV 600	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 500	25.1	84.5	90.1	95.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.9	97.9
IV 400	25.1	84.5	90.1	95.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.6	98.6
IV 300	25.1	84.5	90.1	95.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.6	98.6
IV 200	25.1	84.5	90.1	95.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.6	98.6
IV 100	25.1	84.5	90.1	95.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.6	98.6
IV 0	25.1	84.5	90.1	95.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 142

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-92

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	22.2	44.9	51.1	53.7	55.6	56.1	57.2	57.7	57.7	58.0	58.0	58.0	58.2	58.2	59.2	59.2
≥ 20000	22.6	46.1	52.5	55.3	57.2	57.7	58.9	59.4	59.4	59.7	59.7	59.7	59.9	59.9	59.9	59.9
IV 18000	22.6	46.1	52.5	55.3	57.2	57.7	58.9	59.4	59.4	59.7	59.7	59.7	59.9	59.9	59.9	59.9
IV 16000	22.6	46.1	52.5	55.3	57.2	57.7	58.9	59.4	59.4	59.7	59.7	59.7	59.9	59.9	59.9	59.9
IV 14000	22.6	46.2	52.6	55.4	57.3	57.8	59.0	59.4	59.4	59.8	59.8	59.8	59.9	59.9	60.0	60.0
IV 12000	22.8	47.1	53.5	56.3	58.2	58.7	59.9	60.3	60.3	60.6	60.6	60.6	60.8	60.8	60.8	60.8
IV 10000	22.9	48.0	54.5	57.5	59.4	59.9	61.0	61.5	61.5	61.8	61.9	61.8	62.0	62.0	62.0	62.0
IV 9000	22.9	48.0	54.5	57.5	59.4	59.9	61.0	61.5	61.5	61.8	61.9	61.8	62.0	62.0	62.0	62.0
IV 8000	23.1	48.3	54.9	58.0	59.9	60.4	61.6	62.0	62.0	62.4	62.4	62.4	62.5	62.5	62.5	62.6
IV 7000	23.1	48.4	55.0	58.1	60.0	60.5	61.7	62.1	62.1	62.5	62.5	62.5	62.6	62.6	62.6	62.7
IV 6000	23.1	48.5	55.1	58.2	60.1	60.6	61.7	62.2	62.2	62.5	62.5	62.5	62.7	62.7	62.7	62.7
IV 5000	23.2	48.8	55.4	58.5	60.4	60.9	62.1	62.5	62.5	62.9	62.9	62.9	63.0	63.0	63.1	63.1
IV 4500	23.2	48.8	55.4	58.5	60.4	60.9	62.1	62.5	62.5	62.9	62.9	62.9	63.0	63.0	63.1	63.1
IV 4000	23.6	49.2	55.8	58.9	60.8	61.3	62.5	62.9	62.9	63.3	63.3	63.3	63.4	63.4	63.5	63.5
IV 3500	24.3	50.1	56.7	59.8	61.7	62.2	63.4	63.8	63.8	64.1	64.1	64.1	64.3	64.3	64.4	64.4
IV 3000	25.5	51.8	58.5	61.7	63.6	64.1	65.3	65.7	65.7	66.1	66.1	66.1	66.2	66.2	66.3	66.3
IV 2500	26.6	53.9	60.8	63.9	65.8	66.3	67.5	67.9	67.9	68.4	68.4	68.4	68.5	68.5	68.6	68.6
IV 2000	28.7	57.5	64.5	67.7	69.6	70.3	71.5	71.9	71.9	72.3	72.3	72.3	72.4	72.4	72.5	72.5
IV 1800	28.8	58.0	65.1	68.4	70.4	70.9	72.1	72.5	72.5	72.9	72.9	72.9	73.1	73.1	73.1	73.1
IV 1500	30.5	62.4	70.3	73.9	76.4	76.9	78.1	78.6	78.6	79.0	79.0	79.0	79.1	79.1	79.2	79.2
IV 1200	30.9	65.9	74.8	78.8	81.5	82.0	83.3	83.8	83.8	84.2	84.2	84.2	84.3	84.3	84.4	84.4
IV 1000	31.7	68.9	78.8	83.6	87.1	87.6	89.1	89.5	89.5	89.9	89.9	89.9	90.1	90.1	90.2	90.2
IV 900	31.7	69.1	79.4	84.3	88.0	88.5	90.1	90.5	90.5	90.9	90.9	90.9	91.1	91.1	91.1	91.1
IV 800	31.8	69.4	80.2	85.3	89.7	90.4	92.3	92.8	92.8	93.3	93.4	93.4	93.5	93.5	93.6	93.6
IV 700	31.9	69.6	80.7	86.0	90.7	91.4	93.5	94.3	94.3	94.9	94.9	94.9	95.1	95.1	95.2	95.2
IV 600	31.9	69.7	80.9	86.3	91.3	92.2	94.3	95.2	95.2	95.9	96.0	96.0	96.1	96.1	96.2	96.2
IV 500	31.9	69.7	80.9	86.4	91.5	92.5	94.7	95.9	95.9	96.8	96.8	96.8	97.0	97.0	97.1	97.1
IV 400	31.9	69.9	81.2	86.6	91.8	92.8	95.2	96.4	96.4	97.4	97.5	97.5	97.7	97.7	97.8	97.8
IV 300	31.9	69.9	81.2	86.6	92.0	93.0	95.4	96.8	96.8	97.8	98.0	98.0	98.2	98.2	98.3	98.3
IV 200	31.9	69.9	81.2	86.6	92.0	93.0	95.5	97.1	97.1	98.2	98.5	98.5	98.9	98.9	99.2	99.2
IV 100	31.9	69.9	81.2	86.6	92.1	93.0	95.6	97.2	97.2	98.3	98.6	98.6	99.2	99.2	99.7	99.9
IV 0	31.9	69.9	81.2	86.6	92.1	93.0	95.6	97.3	97.3	98.4	98.7	98.7	99.3	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 1422

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7 15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

YEARS

OCT
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	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
IV 20000															
IV 18000															
IV 16000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
IV 6000															
IV 5000															
IV 4500															
IV 4000															
IV 3500															
IV 3000															
IV 2500															
IV 2000															
IV 1800															
IV 1500															
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

715
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

YEARS

067
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
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															
IV 18000															
IV 14000															
IV 14000															
IV 12000															
IV 10000															
IV 9000															
IV 8000															
IV 7000															
IV 6000															
IV 5000															
IV 4500															
IV 4000															
IV 3500															
IV 3000															
IV 2500															
IV 2000															
IV 1800															
IV 1500															
IV 1200															
IV 1000															
IV 900															
IV 800															
IV 700															
IV 600															
IV 500															
IV 400															
IV 300															
IV 200															
IV 100															
IV 0															

TOTAL NUMBER OF OBSERVATIONS _____

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-87

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

77

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	17.8	31.4	33.7	36.2	39.9	41.3	43.5	43.8	43.8	44.9	45.3	45.3	46.4	46.4	46.4	46.7
≥ 20000	18.5	31.5	34.8	37.3	41.3	43.1	45.3	45.7	45.7	46.7	47.1	47.1	48.2	48.2	48.2	48.6
IN 18000	18.5	31.5	34.8	37.3	41.3	43.1	45.3	45.7	45.7	46.7	47.1	47.1	48.2	48.2	48.2	48.6
IN 16000	18.5	31.5	34.8	37.3	41.3	43.1	45.3	45.7	45.7	46.7	47.1	47.1	48.2	48.2	48.2	48.6
IN 14000	18.5	31.5	34.8	37.3	41.3	43.1	45.3	45.7	45.7	46.7	47.1	47.1	48.2	48.2	48.2	48.6
IN 12000	18.5	31.5	34.8	37.3	41.3	43.1	45.7	46.0	46.0	47.1	47.5	47.5	48.6	48.6	48.6	48.9
IN 10000	18.8	31.9	35.5	38.4	42.8	44.6	47.1	47.5	47.5	48.6	48.9	48.9	50.0	50.0	50.0	50.4
IN 9000	18.8	31.9	35.5	38.4	42.8	44.6	47.1	47.5	47.5	48.6	48.9	48.9	50.0	50.0	50.0	50.4
IN 8000	18.8	33.0	36.6	39.5	43.8	45.7	48.2	48.6	48.6	49.6	50.0	50.0	51.1	51.1	51.1	51.5
IN 7000	19.2	33.7	37.0	39.9	44.2	46.0	48.6	48.9	48.9	50.0	50.4	50.4	51.5	51.5	51.5	51.8
IN 6000	19.2	33.7	37.3	40.2	44.6	46.4	48.9	49.3	49.3	50.4	50.7	50.7	51.8	51.8	51.8	52.2
IN 5000	19.2	33.7	37.3	40.2	44.6	46.7	49.3	49.6	49.6	50.7	51.1	51.1	52.2	52.2	52.2	52.5
IN 4500	19.6	34.1	37.7	40.9	45.3	47.1	49.6	50.0	50.0	51.1	51.5	51.5	52.5	52.5	52.5	52.9
IN 4000	19.6	34.1	37.7	40.9	45.3	47.1	49.6	50.0	50.0	51.1	51.5	51.5	52.5	52.5	52.5	52.9
IN 3500	19.6	34.4	38.0	41.3	45.7	47.5	50.0	50.4	50.4	51.5	51.9	51.9	52.9	52.9	52.9	53.3
IN 3000	21.7	35.9	39.9	43.1	47.5	49.3	51.8	52.2	52.2	53.3	53.6	53.6	54.7	54.7	54.7	55.1
IN 2500	23.6	39.9	44.2	47.8	52.2	54.0	56.5	56.9	56.9	58.0	58.3	58.3	59.4	59.4	59.4	59.8
IN 2000	26.1	44.9	49.6	53.3	57.6	59.4	62.3	62.7	62.7	63.8	64.1	64.1	65.2	65.2	65.2	65.6
IN 1800	26.5	45.7	50.7	54.4	58.7	60.5	63.4	63.8	63.8	64.9	65.2	65.2	66.3	66.3	66.3	66.7
IN 1500	27.5	47.5	54.0	58.0	62.7	64.5	67.4	68.1	68.1	69.2	69.6	69.6	70.7	70.7	70.7	71.0
IN 1200	29.0	49.3	56.2	60.1	65.6	67.4	70.3	71.0	71.0	72.0	73.2	73.2	74.3	74.3	74.3	74.6
IN 1000	29.4	50.0	57.3	61.2	67.8	70.3	74.6	75.7	75.7	78.6	79.0	79.0	80.1	80.1	80.1	80.4
IN 900	29.7	50.4	57.6	62.0	69.2	71.7	76.1	77.2	77.2	80.1	80.4	80.4	81.5	81.5	81.5	81.9
IN 800	29.7	50.4	57.6	62.0	69.9	72.5	78.6	82.3	82.3	85.5	85.9	85.9	88.0	88.0	88.0	88.3
IN 700	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.0	83.0	87.0	87.3	87.3	89.9	89.9	89.9	90.6
IN 600	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.0	83.0	87.0	87.7	87.7	90.2	90.2	90.6	90.9
IN 500	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.3	83.3	87.7	88.4	88.4	91.3	91.3	91.7	92.0
IN 400	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.3	83.3	87.7	88.8	88.8	91.7	91.7	92.4	92.8
IN 300	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.7	83.7	88.0	89.9	89.9	92.8	93.1	94.2	95.3
IN 200	29.7	50.4	58.0	62.3	70.7	73.2	79.4	83.7	83.7	88.0	89.9	89.9	93.5	94.2	95.7	97.1
IN 100	29.7	50.4	58.0	62.7	71.0	73.6	79.7	84.1	84.1	88.4	90.2	90.2	94.2	94.9	97.1	98.9
IN 0	29.7	50.4	58.0	62.7	71.0	73.6	79.7	84.1	84.1	88.4	90.2	90.2	94.2	94.9	97.1	98.9

TOTAL NUMBER OF OBSERVATIONS

276

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	26.7	34.8	49.1	54.1	58.7	60.1	64.1	65.8	65.8	66.2	66.2	66.2	66.2	66.2	66.6	66.6
IV 20000	27.1	41.6	52.3	57.3	61.9	63.4	67.3	69.0	69.0	69.4	69.4	69.4	69.4	69.8	69.8	70.1
IV 18000	27.1	42.0	52.7	57.7	62.3	63.7	67.6	69.4	69.4	69.8	70.1	70.1	70.1	70.1	70.5	70.5
IV 16000	27.1	42.0	52.7	57.7	62.3	63.7	67.6	69.4	69.4	69.8	70.1	70.1	70.1	70.1	70.5	70.5
IV 14000	27.1	42.0	52.7	57.7	62.3	63.7	67.6	69.4	69.4	69.8	70.1	70.1	70.1	70.1	70.5	70.5
IV 12000	27.1	42.0	52.7	57.7	62.3	63.7	67.6	69.4	69.4	69.8	70.1	70.1	70.1	70.1	70.5	70.5
IV 10000	27.4	43.1	53.7	58.7	63.7	65.1	69.0	70.8	70.8	71.2	71.5	71.5	71.5	71.5	71.9	71.9
IV 9000	27.4	43.1	53.7	58.7	63.7	65.1	69.0	70.8	70.8	71.2	71.5	71.5	71.5	71.5	71.9	71.9
IV 8000	27.8	43.4	54.5	59.4	64.4	65.8	69.8	71.5	71.5	71.9	72.2	72.2	72.2	72.2	72.6	72.6
IV 7000	28.1	43.8	54.8	59.8	64.8	66.2	70.1	71.9	71.9	72.2	72.6	72.6	72.6	72.6	73.0	73.0
IV 6000	28.1	43.8	54.8	59.8	64.8	66.2	70.1	71.9	71.9	72.2	72.6	72.6	72.6	72.6	73.0	73.0
IV 5000	28.1	44.1	55.2	61.1	66.1	66.6	70.5	72.2	72.2	72.6	73.0	73.0	73.0	73.0	73.3	73.3
IV 4500	28.8	44.8	55.9	61.9	66.8	67.3	71.2	73.0	73.0	73.3	73.7	73.7	73.7	73.7	74.0	74.0
IV 4000	28.8	44.8	56.2	61.2	66.2	67.6	71.5	73.3	73.3	73.7	74.0	74.0	74.0	74.0	74.4	74.4
IV 3500	28.8	44.8	56.2	61.2	66.2	67.6	71.5	73.3	73.3	73.7	74.0	74.0	74.0	74.0	74.4	74.4
IV 3000	30.3	46.3	57.7	62.6	67.6	69.0	73.0	74.7	74.7	75.1	75.4	75.4	75.4	75.4	75.8	75.8
IV 2500	31.3	48.4	60.1	65.1	70.1	71.5	75.4	77.2	77.2	77.6	77.9	77.9	77.9	77.9	78.3	78.3
IV 2000	33.1	51.3	63.0	68.0	73.0	74.4	78.3	80.1	80.1	80.4	80.8	80.8	80.8	80.8	81.1	81.1
IV 1800	33.1	51.6	63.7	68.7	73.7	75.1	79.0	80.8	80.8	81.1	81.5	81.5	81.5	81.5	81.9	81.9
IV 1500	35.6	55.2	68.0	73.3	78.7	80.1	84.3	86.1	86.1	86.5	86.8	86.8	86.8	86.8	87.2	87.2
IV 1200	35.6	55.2	68.7	74.4	79.7	81.1	85.4	87.2	87.2	87.5	87.9	87.9	87.9	87.9	88.3	88.3
IV 1000	35.9	55.9	69.4	75.1	80.8	82.9	88.3	90.4	90.4	90.8	91.1	91.1	91.1	91.1	91.5	91.5
IV 900	35.9	55.9	69.4	75.1	81.5	83.6	89.3	91.8	91.8	92.2	92.5	92.5	92.5	92.5	92.9	92.9
IV 800	35.9	55.9	69.8	75.4	81.9	84.0	90.4	92.9	92.9	93.2	93.6	93.6	93.6	93.6	94.0	94.0
IV 700	35.9	55.9	69.8	75.4	81.9	84.3	90.8	94.0	94.0	94.3	94.7	94.7	94.7	94.7	95.0	95.0
IV 600	35.9	55.9	69.8	75.4	81.9	84.3	91.1	94.7	94.7	95.0	95.7	95.7	95.7	95.7	96.1	96.1
IV 500	35.9	55.9	69.8	75.4	81.9	84.7	91.5	95.4	95.4	95.7	96.8	96.8	96.8	96.8	97.2	97.2
IV 400	35.9	55.9	69.8	75.4	81.9	84.7	91.5	95.7	95.7	96.4	97.5	97.5	97.5	97.5	97.9	97.9
IV 300	35.9	55.9	69.8	75.4	81.9	84.7	91.5	96.1	96.1	96.8	98.2	98.2	98.2	98.2	98.9	98.9
IV 200	35.9	55.9	69.8	75.4	81.9	84.7	91.5	96.1	96.1	96.8	98.2	98.2	98.2	98.2	98.9	98.9
IV 100	35.9	55.9	69.8	75.4	81.9	84.7	91.5	96.1	96.1	96.8	98.2	98.2	98.2	98.2	98.9	98.9
IV 0	35.9	55.9	69.8	75.4	81.9	84.7	91.5	96.1	96.1	96.8	98.2	98.2	98.2	98.2	98.9	98.9

TOTAL NUMBER OF OBSERVATIONS 281

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

3 15
STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
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	37.7	53.7	59.8	63.7	71.2	71.9	74.0	75.4	75.4	75.4	75.4	75.4	75.8	75.8	75.8	75.9
≥ 20000	39.2	56.6	63.7	67.6	75.4	75.8	78.3	80.1	80.1	80.1	80.1	80.1	80.4	80.4	80.4	80.4
IVN 18000	39.2	56.6	63.7	68.0	75.4	76.2	78.7	80.4	80.4	80.4	80.4	80.4	80.8	80.8	80.8	80.8
IVN 16000	39.2	56.6	63.7	68.0	75.4	76.2	78.7	80.4	80.4	80.4	80.4	80.4	80.8	80.8	80.8	80.8
IVN 14000	39.2	56.6	63.7	68.0	75.4	76.2	78.7	80.4	80.4	80.4	80.4	80.4	80.8	80.8	80.8	80.8
IVN 12000	39.9	56.4	65.5	70.1	77.6	78.7	81.1	82.9	82.9	82.9	82.9	82.9	83.3	83.3	83.3	83.3
IVN 10000	39.9	54.1	66.6	71.2	79.0	80.1	82.6	84.3	84.3	84.3	84.3	84.3	84.7	84.7	84.7	84.7
IVN 9000	39.9	54.1	66.6	71.2	79.0	80.1	82.6	84.3	84.3	84.3	84.3	84.3	84.7	84.7	84.7	84.7
IVN 8000	39.9	54.1	66.6	71.2	79.0	80.1	82.6	84.3	84.3	84.3	84.3	84.3	84.7	84.7	84.7	84.7
IVN 7000	40.2	54.4	66.9	71.5	79.4	80.4	82.9	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.1	85.1
IVN 6000	40.2	54.4	66.9	71.5	79.4	80.4	82.9	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.1	85.1
IVN 5000	40.2	54.4	66.9	71.5	79.4	80.4	82.9	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.1	85.1
IVN 4500	40.2	54.4	66.9	71.5	79.4	80.4	82.9	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.1	85.1
IVN 4000	40.6	60.5	68.0	72.6	80.4	81.5	84.0	85.8	85.8	85.8	85.8	85.8	86.1	86.1	86.1	86.1
IVN 3500	41.3	61.2	68.7	73.3	81.1	82.2	84.7	86.5	86.5	86.5	86.5	86.5	86.8	86.8	86.8	86.8
IVN 3000	42.7	62.6	70.1	74.7	82.6	83.6	86.1	87.9	87.9	87.9	87.9	87.9	88.3	88.3	88.3	88.3
IVN 2500	42.7	62.6	70.1	74.7	82.6	83.6	86.1	87.9	87.9	87.9	87.9	87.9	88.3	88.3	88.3	88.3
IVN 2000	43.1	63.4	71.2	75.8	83.6	84.7	87.2	89.0	89.0	89.0	89.0	89.0	89.3	89.3	89.3	89.3
IVN 1800	43.1	63.4	71.2	75.8	83.6	84.7	87.2	89.0	89.0	89.0	89.0	89.0	89.3	89.3	89.3	89.3
IVN 1500	44.1	65.1	73.0	77.6	85.4	86.5	89.0	90.8	90.8	90.8	90.8	90.8	91.1	91.1	91.1	91.1
IVN 1200	44.1	65.1	73.0	77.6	85.4	86.5	89.0	91.5	91.5	91.5	91.5	91.5	91.8	91.8	91.8	91.8
IVN 1000	44.8	66.2	75.1	80.1	87.9	89.0	91.5	93.6	93.6	93.6	93.6	93.6	94.0	94.0	94.0	94.0
IVN 900	44.8	66.2	75.1	80.1	87.9	89.0	91.5	93.6	93.6	93.6	93.6	93.6	94.0	94.0	94.0	94.0
IVN 800	44.8	66.2	75.4	80.4	88.3	89.3	91.8	94.3	94.3	94.3	94.3	94.3	94.7	94.7	94.7	94.7
IVN 700	44.8	66.2	75.4	80.4	88.3	89.3	92.2	95.0	95.0	95.0	95.0	95.0	95.4	95.4	95.4	95.4
IVN 600	44.8	66.2	75.4	80.4	88.3	89.3	92.9	96.8	96.8	96.8	96.8	96.8	97.2	97.2	97.2	97.2
IVN 500	44.8	66.6	75.8	80.8	88.6	89.7	93.6	97.5	97.5	97.5	97.5	97.5	97.9	97.9	97.9	97.9
IVN 400	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	97.9	97.9	98.2	98.2	98.2	98.2
IVN 300	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	98.2	98.2	98.6	98.6	98.6	98.6
IVN 200	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	98.2	98.2	98.6	98.6	98.6	98.6
IVN 100	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	98.2	98.2	98.6	98.6	98.6	98.6
IVN 0	44.8	66.6	75.8	80.8	88.6	89.7	94.0	97.9	97.9	97.9	98.2	98.2	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 281

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-87

YEARS

MONTH

10
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	≥ ¾	≥ ¾	≥ 5/16	≥ ¼	≥ 0	
NO CEILING	39.6	57.0	65.3	69.0	74.7	75.9	77.6	78.4	78.4	78.4	78.4	78.4	78.4	78.8	78.8	78.8	78.8
≥ 20000	42.9	63.3	69.8	74.3	79.6	81.2	82.9	84.1	84.1	84.1	84.1	84.1	84.1	84.5	84.5	84.5	84.5
IV 18000	42.9	63.3	69.8	74.3	79.6	81.2	82.9	84.1	84.1	84.1	84.1	84.1	84.1	84.5	84.5	84.5	84.5
IV 16000	42.9	63.3	69.8	74.3	79.6	81.2	82.9	84.1	84.1	84.1	84.1	84.1	84.1	84.5	84.5	84.5	84.5
IV 14000	43.3	63.7	70.0	75.1	80.4	82.0	83.7	84.9	84.9	84.9	84.9	84.9	84.9	85.3	85.3	85.3	85.3
IV 12000	43.3	64.1	71.1	75.5	81.2	82.9	84.5	85.7	85.7	85.7	85.7	85.7	85.7	86.1	86.1	86.1	86.1
IV 10000	43.7	64.5	72.2	76.7	82.5	84.1	85.7	86.9	86.9	86.9	86.9	86.9	86.9	87.4	87.4	87.4	87.4
IV 9000	43.7	64.5	72.2	76.7	82.5	84.1	85.7	86.9	86.9	86.9	86.9	86.9	86.9	87.4	87.4	87.4	87.4
IV 8000	44.5	65.3	73.1	77.6	83.3	84.9	86.5	87.8	87.8	87.8	87.8	87.8	87.8	88.2	88.2	88.2	88.2
IV 7000	44.5	65.3	73.1	77.6	83.3	84.9	86.5	87.8	87.8	87.8	87.8	87.8	87.8	88.2	88.2	88.2	88.2
IV 6000	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6	88.6
IV 5000	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6	88.6
IV 4500	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6	88.6
IV 4000	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6	88.6
IV 3500	44.9	65.7	73.5	78.0	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.6	88.6	88.6	88.6
IV 3000	45.7	66.5	74.3	78.8	84.5	86.5	88.2	89.4	89.4	89.4	89.4	89.4	89.4	89.8	89.8	89.8	89.8
IV 2500	46.1	67.4	75.1	79.6	85.3	87.4	89.0	90.2	90.2	90.2	90.2	90.2	90.2	90.6	90.6	90.6	90.6
IV 2000	47.8	69.4	77.1	81.6	87.4	89.4	91.1	92.2	92.2	92.2	92.2	92.2	92.2	92.7	92.7	92.7	92.7
IV 1800	48.2	69.8	77.6	82.0	87.8	89.8	91.4	92.7	92.7	92.7	92.7	92.7	92.7	93.1	93.1	93.1	93.1
IV 1500	48.8	71.4	79.2	83.7	89.4	91.4	93.1	94.3	94.3	94.3	94.3	94.3	94.3	94.7	94.7	94.7	94.7
IV 1200	49.4	73.5	81.2	85.7	91.4	93.5	95.1	96.3	96.3	96.3	96.3	96.3	96.3	96.7	96.7	96.7	96.7
IV 1000	49.4	73.5	81.6	86.1	92.7	94.7	96.3	97.6	97.6	97.6	97.6	97.6	97.6	98.0	98.0	98.0	98.0
IV 900	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 800	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 700	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 600	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 500	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 400	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 300	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 200	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 100	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4
IV 0	49.4	73.5	81.6	86.1	93.1	95.1	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.4	98.4	98.4	98.4

TOTAL NUMBER OF OBSERVATIONS 245

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

017

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	≥ ¼	≥ 5/16	≥ 0	
NO CEILING	25.7	56.2	63.7	66.8	70.4	70.8	71.2	71.7	72.1	72.6	72.6	72.6	73.0	73.0	73.0	73.0
≥ 20000	26.1	56.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
IV 18000	26.1	58.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
IV 16000	26.1	58.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
IV 14000	26.1	58.9	67.3	70.8	74.3	74.8	75.2	75.7	76.1	76.6	76.6	76.6	77.0	77.0	77.0	77.0
IV 12000	26.1	59.7	68.6	72.1	75.7	76.1	76.6	77.0	77.4	77.9	77.9	77.9	78.3	78.3	78.3	78.3
IV 10000	27.1	60.6	69.5	73.0	76.6	77.0	77.4	77.9	78.3	78.8	78.8	78.8	79.2	79.2	79.2	79.2
IV 9000	27.1	60.6	69.5	73.0	76.6	77.0	77.4	77.9	78.3	78.8	78.8	78.8	79.2	79.2	79.2	79.2
IV 8000	27.0	61.1	69.9	73.5	77.0	77.4	77.9	78.3	78.8	79.2	79.2	79.2	79.7	79.7	79.7	79.7
IV 7000	27.0	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
IV 6000	27.9	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
IV 5000	27.9	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
IV 4500	27.9	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
IV 4000	27.9	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
IV 3500	27.9	62.4	71.2	74.8	78.3	78.8	79.2	79.7	80.1	80.5	80.5	80.5	81.0	81.0	81.0	81.0
IV 3000	28.8	63.7	72.6	76.1	79.7	80.1	80.5	81.0	81.4	81.9	81.9	81.9	82.3	82.3	82.3	82.3
IV 2500	29.7	65.0	73.9	77.4	81.0	81.4	81.9	82.3	82.7	83.2	83.2	83.2	83.6	83.6	83.6	83.6
IV 2000	31.0	67.3	76.1	79.7	83.2	83.6	84.1	84.5	85.0	85.4	85.4	85.4	85.8	85.8	85.8	85.8
IV 1800	31.0	68.1	77.4	81.0	84.5	85.0	85.4	85.8	86.3	86.7	86.7	86.7	87.2	87.2	87.2	87.2
IV 1500	31.0	71.2	81.4	85.0	88.5	88.9	89.4	89.8	90.3	90.7	90.7	90.7	91.2	91.2	91.2	91.2
IV 1200	31.0	72.1	82.3	85.8	89.4	89.8	90.3	90.7	91.2	91.6	91.6	91.6	92.1	92.1	92.1	92.1
IV 1000	31.0	73.5	85.4	88.9	93.8	94.3	94.7	95.1	95.6	96.0	96.0	96.0	96.5	96.5	96.5	96.5
IV 900	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 800	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 700	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 600	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 500	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 400	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 300	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 200	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 100	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9
IV 0	31.0	73.5	85.4	88.9	94.3	94.7	95.1	95.6	96.0	96.5	96.5	96.5	96.9	96.9	96.9	96.9

TOTAL NUMBER OF OBSERVATIONS 226

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73,77-82

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

72
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	20.9	43.3	46.1	47.5	49.7	49.7	50.4	50.4	50.4	51.1	51.8	51.8	51.8	51.8	51.8	51.8
IV 20000	20.6	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 18000	20.6	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 16000	20.6	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 14000	20.6	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 12000	20.6	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 10000	20.6	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 9000	20.6	46.1	50.4	51.8	53.9	53.9	54.6	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0
IV 8000	21.3	47.5	51.8	53.2	55.3	55.3	56.0	56.0	56.0	56.7	57.5	57.5	57.5	57.5	57.5	57.5
IV 7000	22.0	47.7	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 6000	22.7	47.7	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 5000	22.7	47.7	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 4500	22.7	47.7	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 4000	22.0	47.7	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 3500	22.0	47.7	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 3000	22.0	47.7	53.9	55.3	57.5	57.5	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6
IV 2500	23.4	52.5	56.7	58.2	60.3	60.3	61.0	61.0	61.0	61.7	62.4	62.4	62.4	62.4	62.4	62.4
IV 2000	26.2	56.7	61.0	62.4	64.5	64.5	65.3	65.3	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7
IV 1800	26.2	56.7	61.0	62.4	64.5	64.5	65.3	65.3	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7
IV 1500	27.0	61.0	65.3	67.4	69.5	69.5	70.2	70.2	70.2	70.9	71.6	71.6	71.6	71.6	71.6	71.6
IV 1200	27.7	64.5	69.5	72.3	74.5	74.5	75.2	75.2	75.2	75.9	76.6	76.6	76.6	76.6	76.6	76.6
IV 1000	28.4	68.8	77.3	81.0	85.1	85.1	86.5	86.5	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9
IV 900	28.4	69.5	78.0	82.3	85.8	85.8	87.2	87.2	87.2	87.9	88.7	88.7	88.7	88.7	88.7	88.7
IV 800	28.4	73.2	78.7	83.0	86.5	86.5	88.7	88.7	88.7	89.4	90.1	90.1	90.1	90.1	90.1	90.1
IV 700	28.4	70.9	79.4	83.7	88.7	88.7	90.8	90.8	90.8	91.5	92.2	92.2	92.2	92.2	92.2	92.2
IV 600	28.4	70.9	79.4	83.7	88.7	88.7	92.2	93.6	93.6	94.3	95.0	95.0	95.0	95.0	95.0	95.0
IV 500	28.4	70.9	80.1	84.4	89.4	89.4	93.6	95.0	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5
IV 400	28.4	70.9	80.1	84.4	89.4	89.4	93.6	95.0	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5
IV 300	28.4	70.9	80.1	84.4	89.4	89.4	94.3	95.7	95.7	97.2	97.9	97.9	97.9	97.9	97.9	97.9
IV 200	28.4	70.9	80.1	84.4	89.4	89.4	94.3	95.7	95.7	97.9	98.6	98.6	98.6	98.6	98.6	98.6
IV 100	28.4	70.9	80.1	84.4	89.4	89.4	94.3	95.7	95.7	97.9	98.6	98.6	98.6	98.6	98.6	98.6
IV 0	28.4	70.9	80.1	84.4	89.4	89.4	94.3	95.7	95.7	97.9	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-82

YEARS

MONTH

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	28.3	46.6	53.0	58.6	61.2	62.1	64.1	65.0	65.1	65.5	65.7	65.7	66.1	66.2	66.1	66.7
≥ 20000	29.7	49.4	56.2	59.9	64.7	65.8	67.9	68.9	69.7	69.4	69.6	69.6	70.0	70.0	70.1	70.1
IV 18000	29.7	49.5	56.3	60.1	64.8	65.9	68.0	69.0	69.1	69.5	69.7	69.7	70.1	70.1	70.2	70.3
IV 16000	29.7	49.5	56.3	60.1	64.8	65.9	68.0	69.0	69.1	69.5	69.7	69.7	70.1	70.1	70.2	70.3
IV 14000	29.7	49.5	56.5	60.2	65.0	66.1	68.1	69.2	69.2	69.7	69.9	69.9	70.3	70.3	70.3	70.4
IV 12000	29.9	50.1	57.1	60.9	65.7	66.9	69.0	70.1	70.1	70.6	70.8	70.8	71.2	71.2	71.2	71.3
IV 10000	30.2	50.7	58.0	61.9	66.9	68.1	70.2	71.2	71.3	71.7	71.9	71.9	72.3	72.3	72.4	72.5
IV 9000	30.2	50.7	58.0	61.9	66.9	68.1	70.2	71.2	71.3	71.7	71.9	71.9	72.3	72.3	72.4	72.5
IV 8000	30.5	51.3	58.7	62.6	67.6	68.8	70.9	71.9	72.0	72.4	72.6	72.6	73.0	73.0	73.1	73.2
IV 7000	30.8	51.9	59.3	63.2	68.2	69.4	71.5	72.6	72.6	73.0	73.2	73.2	73.7	73.7	73.7	73.8
IV 6000	31.0	52.1	59.5	63.3	68.3	69.5	71.7	72.7	72.8	73.2	73.4	73.4	73.8	73.8	73.9	73.9
IV 5000	31.3	52.1	59.5	63.5	68.5	69.7	71.9	72.9	73.0	73.4	73.6	73.6	74.0	74.0	74.1	74.1
IV 4500	31.2	52.3	59.7	63.7	68.7	69.9	72.1	73.1	73.2	73.6	73.8	73.8	74.2	74.2	74.3	74.3
IV 4000	31.2	52.6	60.0	63.9	69.7	70.2	72.3	73.4	73.5	73.9	74.1	74.1	74.5	74.5	74.6	74.6
IV 3500	31.4	52.8	60.2	64.1	69.2	70.4	72.6	73.6	73.7	74.1	74.3	74.3	74.7	74.7	74.8	74.8
IV 3000	32.4	53.9	61.5	65.4	70.4	71.7	73.8	74.8	74.9	75.3	75.5	75.5	75.9	75.9	76.0	76.1
IV 2500	33.5	55.7	63.4	67.4	72.4	73.7	75.8	76.8	76.9	77.3	77.5	77.5	77.9	77.9	78.0	78.1
IV 2000	35.2	58.5	66.3	70.3	75.3	76.6	78.8	79.8	79.9	80.3	80.5	80.5	80.9	80.9	81.0	81.0
IV 1800	35.3	58.9	66.9	70.9	75.9	77.2	79.4	80.4	80.5	80.9	81.1	81.1	81.5	81.5	81.6	81.7
IV 1500	36.6	61.5	70.0	74.2	79.4	80.6	82.9	84.0	84.1	84.5	84.7	84.7	85.1	85.1	85.2	85.2
IV 1200	37.0	62.6	71.5	75.9	81.2	82.5	84.8	85.9	85.9	86.5	86.7	86.7	87.1	87.1	87.2	87.2
IV 1000	37.3	63.7	73.5	78.0	84.1	85.7	88.5	89.8	89.9	90.6	90.8	90.8	91.2	91.2	91.3	91.4
IV 900	37.4	63.9	73.7	78.3	84.8	86.3	89.2	90.6	90.6	91.4	91.6	91.6	92.0	92.0	92.1	92.1
IV 800	37.4	63.9	73.9	78.5	85.1	86.6	89.1	92.1	92.1	93.0	93.2	93.2	93.6	93.6	93.9	94.0
IV 700	37.4	64.0	74.0	78.6	85.5	87.0	90.6	92.8	92.8	93.8	94.0	94.0	94.7	94.7	94.8	94.9
IV 600	37.4	64.0	74.0	78.6	85.5	87.1	91.1	93.7	93.7	94.7	95.0	95.0	95.7	95.7	95.9	95.9
IV 500	37.4	64.1	74.1	78.8	85.7	87.3	91.5	94.2	94.3	95.4	95.8	95.8	96.6	96.6	96.7	96.8
IV 400	37.4	64.1	74.1	78.8	85.7	87.3	91.5	94.3	94.4	95.7	96.1	96.1	97.0	97.0	97.2	97.2
IV 300	37.4	64.1	74.1	78.8	85.7	87.3	91.7	94.6	94.7	96.1	96.8	96.8	97.7	97.9	98.1	98.3
IV 200	37.4	64.1	74.1	78.8	85.7	87.3	91.7	94.6	94.7	96.2	97.1	97.1	98.2	98.5	99.0	99.2
IV 100	37.4	64.1	74.2	78.8	85.7	87.4	91.7	94.7	94.8	96.3	97.1	97.1	98.3	98.6	99.4	99.7
IV 0	37.4	64.1	74.2	78.8	85.7	87.4	91.7	94.7	94.8	96.3	97.1	97.1	98.3	98.6	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

1450

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73

NOV

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	≥ ¼	≥ 0
NO CEILING	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 20000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 18000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 16000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 14000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 12000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 10000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 9000	40.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
IV 8000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 7000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 6000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	40.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

5

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION SPENTAL LACH, CALIFORNIA YEARS 73 NOV 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	66.7	83.3	83.3	83.3	83.3	83.3	87.5	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 20000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 18000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 16000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 14000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 12000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 10000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 9000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 8000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 7000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 6000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 5000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 4500	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 4000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 3500	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 3000	66.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 2500	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	83.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 6

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

7
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	43.4	56.2	67.6	63.1	65.7	65.5	66.3	66.7	66.7	68.3	68.3	68.3	69.1	69.1	69.5	69.5
IV 20000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 18000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 16000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 14000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 12000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 10000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 9000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 8000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 7000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 6000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 5000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 4500	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 4000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 3500	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 3000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 2500	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 2000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 1800	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 1500	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 1200	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 1000	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 900	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 800	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 700	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 600	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 500	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 400	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 300	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 200	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 100	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1
IV 0	45.4	57.4	63.9	66.3	68.3	68.7	69.9	70.3	70.3	71.9	71.9	71.9	72.7	72.7	73.1	73.1

TOTAL NUMBER OF OBSERVATIONS

249

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

11
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	47.0	61.0	65.5	67.8	71.5	72.0	73.9	74.2	74.2	74.2	74.6	74.6	74.6	74.6	74.6	74.6
≥ 20000	48.1	63.6	68.2	70.5	74.2	75.0	77.3	77.7	77.7	78.0	78.4	78.4	78.4	78.4	78.4	78.4
IVM 18000	48.1	63.6	68.2	70.5	74.2	75.0	77.3	77.7	77.7	78.0	78.4	78.4	78.4	78.4	78.4	78.4
IVM 16000	48.1	63.6	68.2	70.5	74.2	75.0	77.3	77.7	77.7	78.0	78.4	78.4	78.4	78.4	78.4	78.4
IVM 14000	48.1	63.6	68.2	70.5	74.2	75.0	77.3	77.7	77.7	78.0	78.4	78.4	78.4	78.4	78.4	78.4
IVM 12000	48.1	64.0	68.9	71.2	75.1	75.8	78.0	78.4	78.4	78.8	79.2	79.2	79.2	79.2	79.2	79.2
IVM 10000	48.1	64.8	69.7	72.0	75.8	76.5	78.8	79.2	79.2	79.6	79.9	79.9	79.9	79.9	79.9	79.9
IVM 9000	48.1	64.8	69.7	72.0	75.8	76.5	78.8	79.2	79.2	79.6	79.9	79.9	79.9	79.9	79.9	79.9
IVM 8000	48.1	64.8	70.1	72.4	76.1	76.9	79.2	79.6	79.6	79.9	80.3	80.3	80.3	80.3	80.3	80.3
IVM 7000	48.1	65.2	70.5	72.7	76.5	77.3	79.6	79.9	79.9	80.3	80.7	80.7	80.7	80.7	80.7	80.7
IVM 6000	48.5	65.2	70.5	72.7	76.5	77.3	79.6	79.9	79.9	80.3	80.7	80.7	80.7	80.7	80.7	80.7
IVM 5000	48.5	65.2	70.5	72.7	76.5	77.3	79.6	79.9	79.9	80.3	80.7	80.7	80.7	80.7	80.7	80.7
IVM 4500	48.9	65.5	70.8	73.1	76.9	77.7	79.9	80.3	80.3	80.7	81.1	81.1	81.1	81.1	81.1	81.1
IVM 4000	48.9	65.5	70.8	73.1	76.9	77.7	79.9	80.3	80.3	80.7	81.1	81.1	81.1	81.1	81.1	81.1
IVM 3500	49.2	65.9	71.2	73.4	77.7	78.4	80.7	81.1	81.1	81.4	81.8	81.8	81.8	81.8	81.8	81.8
IVM 3000	49.7	67.1	72.4	75.4	79.2	79.9	82.2	82.6	82.6	83.0	83.3	83.3	83.3	83.3	83.3	83.3
IVM 2500	51.0	69.3	74.6	77.7	81.4	82.2	84.5	84.9	84.9	85.2	85.6	85.6	85.6	85.6	85.6	85.6
IVM 2000	52.7	70.8	76.5	79.9	83.7	84.9	87.1	87.5	87.5	87.9	88.3	88.3	88.3	88.3	88.3	88.3
IVM 1800	53.0	71.2	76.9	80.3	84.1	85.2	87.5	87.9	87.9	88.3	88.6	88.6	88.6	88.6	88.6	88.6
IVM 1500	54.6	73.1	76.8	82.2	86.4	87.5	90.2	90.5	90.5	91.3	91.7	91.7	91.7	91.7	91.7	91.7
IVM 1200	54.6	73.9	79.6	83.7	87.9	89.0	92.1	92.4	92.4	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IVM 1000	54.6	74.2	81.3	84.5	89.4	90.5	94.3	94.7	94.7	95.5	95.8	95.8	95.8	95.8	95.8	95.8
IVM 900	54.6	74.2	81.3	84.5	89.4	90.5	94.3	94.7	94.7	95.5	95.8	95.8	95.8	95.8	95.8	95.8
IVM 800	54.6	74.2	81.3	84.5	89.4	90.5	94.3	95.1	95.1	95.8	96.2	96.2	96.2	96.2	96.2	96.2
IVM 700	54.6	74.2	81.3	84.5	89.4	90.5	94.3	95.8	95.8	96.6	97.0	97.0	97.0	97.0	97.0	97.0
IVM 600	54.6	74.2	81.3	84.5	89.4	90.5	94.3	96.2	96.2	97.0	97.4	97.4	97.4	97.4	97.4	97.4
IVM 500	54.6	74.2	81.3	84.5	89.4	90.5	94.3	97.0	97.0	97.7	98.1	98.1	98.1	98.1	98.1	98.1
IVM 400	54.6	74.2	81.3	85.2	90.2	91.3	95.1	97.4	97.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5
IVM 300	54.6	74.2	81.3	85.2	90.2	91.3	95.1	97.4	97.4	98.5	98.9	98.9	98.9	98.9	98.9	98.9
IVM 200	54.6	74.2	81.3	85.2	90.2	91.3	95.1	97.4	97.4	98.5	99.2	99.2	99.2	99.2	99.2	99.2
IVM 100	54.6	74.2	81.3	85.2	90.2	91.3	95.1	97.4	97.4	98.5	99.2	99.2	99.2	99.2	99.2	99.2
IVM 0	54.6	74.2	81.3	85.2	90.2	91.3	95.1	97.4	97.4	98.5	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS 264

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	48.5	62.1	65.9	68.6	71.6	72.4	73.9	75.4	75.4	75.8	76.1	76.1	76.1	76.1	76.1	76.1
≥ 20000	51.7	67.8	71.6	75.0	78.4	79.2	80.7	82.2	82.2	82.6	83.0	83.0	83.0	83.0	83.0	83.0
IV 18000	51.9	67.8	71.6	75.0	78.4	79.2	80.7	82.2	82.2	82.6	83.0	83.0	83.0	83.0	83.0	83.0
IV 16000	51.7	67.8	71.6	75.0	78.4	79.2	80.7	82.2	82.2	82.6	83.0	83.0	83.0	83.0	83.0	83.0
IV 14000	52.7	68.6	72.4	75.8	79.2	79.9	81.4	83.0	83.0	83.3	83.7	84.1	84.5	84.5	84.5	84.5
IV 12000	53.8	70.1	74.2	77.7	81.1	81.8	83.3	84.9	84.9	85.6	86.0	86.0	86.0	86.0	86.0	86.0
IV 10000	53.8	70.1	74.2	77.7	81.1	81.8	83.3	84.9	84.9	85.6	86.0	86.0	86.0	86.0	86.0	86.0
IV 9000	53.8	70.1	74.2	77.7	81.1	81.8	83.3	84.9	84.9	85.6	86.0	86.0	86.0	86.0	86.0	86.0
IV 8000	54.6	70.8	75.0	78.4	81.8	82.6	84.1	85.6	85.6	86.4	86.7	86.7	86.7	86.7	86.7	86.7
IV 7000	54.6	70.8	75.0	78.4	81.8	82.6	84.1	85.6	85.6	86.4	86.7	86.7	86.7	86.7	86.7	86.7
IV 6000	54.6	70.8	75.0	78.4	81.8	82.6	84.1	85.6	85.6	86.4	86.7	86.7	86.7	86.7	86.7	86.7
IV 5000	54.6	70.8	75.0	78.4	81.8	82.6	84.1	85.6	85.6	86.4	86.7	86.7	86.7	86.7	86.7	86.7
IV 4500	55.3	71.6	75.8	79.2	82.6	83.3	84.9	86.4	86.4	87.1	87.5	87.5	87.5	87.5	87.5	87.5
IV 4000	55.7	72.0	76.1	79.6	83.1	83.7	85.2	86.7	86.7	87.5	87.9	87.9	87.9	87.9	87.9	87.9
IV 3500	56.8	73.1	77.3	80.7	84.1	84.9	86.4	87.9	87.9	88.6	89.0	89.0	89.0	89.0	89.0	89.0
IV 3000	57.2	73.5	77.7	81.1	84.5	85.2	86.7	88.3	88.3	89.0	89.4	89.4	89.4	89.4	89.4	89.4
IV 2500	58.7	75.4	79.6	83.0	86.4	87.1	88.6	90.2	90.2	90.9	91.3	91.3	91.3	91.3	91.3	91.3
IV 2000	60.7	77.3	81.4	85.2	88.6	89.4	90.9	92.4	92.4	93.2	93.6	93.6	93.6	93.6	93.6	93.6
IV 1800	60.6	77.7	81.8	85.6	89.4	90.2	91.7	93.2	93.2	93.9	94.3	94.3	94.3	94.3	94.3	94.3
IV 1500	61.0	78.8	83.3	87.1	91.3	92.1	93.6	95.1	95.1	95.8	96.2	96.2	96.2	96.2	96.2	96.2
IV 1200	61.0	78.8	83.3	87.1	91.7	92.4	94.3	95.8	95.8	96.6	97.0	97.0	97.0	97.0	97.0	97.0
IV 1000	61.0	79.6	84.5	88.3	92.8	93.6	95.5	97.4	97.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5
IV 900	61.0	79.6	84.5	88.3	92.8	93.6	95.5	97.4	97.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5
IV 800	61.0	79.6	84.5	88.3	92.8	93.6	95.5	97.4	97.4	98.1	98.5	98.5	98.5	98.5	98.5	98.5
IV 700	61.0	79.9	84.9	88.6	93.2	94.3	96.2	98.1	98.1	98.9	99.2	99.2	99.2	99.2	99.2	99.2
IV 600	61.0	79.9	84.9	88.6	93.2	94.3	96.2	98.1	98.1	98.9	99.2	99.2	99.2	99.2	99.2	99.2
IV 500	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
IV 400	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
IV 300	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.5	98.5	99.2	99.6	99.6	99.6	99.6	99.6	99.6
IV 200	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.9	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.9	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	61.0	79.9	84.9	88.6	93.2	94.3	96.6	98.9	98.9	99.6	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 264

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

NOV

MOUTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
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	51.9	65.9	73.5	74.6	75.8	76.9	78.4	78.8	78.8	77.2	79.6	79.6	79.9	79.9	79.9	79.9
IN 20000	56.1	71.6	79.9	81.1	82.2	83.3	84.9	85.2	85.2	85.6	86.7	86.7	86.4	86.4	86.4	86.4
IN 18000	55.1	71.6	79.9	81.1	82.2	83.3	84.9	85.2	85.2	85.6	86.7	86.7	86.4	86.4	86.4	86.4
IN 16000	56.1	71.6	79.9	81.1	82.2	83.3	84.9	85.2	85.2	85.6	86.7	86.7	86.4	86.4	86.4	86.4
IN 14000	56.8	72.4	80.7	81.8	83.0	84.1	85.6	86.0	86.0	86.4	86.7	86.7	87.1	87.1	87.1	87.1
IN 12000	56.8	73.1	81.8	83.1	84.1	85.2	86.7	87.1	87.1	87.5	87.9	87.9	88.3	88.3	88.3	88.3
IN 10000	57.6	74.2	83.0	84.1	85.2	86.4	87.9	88.3	88.3	88.6	89.0	89.0	89.4	89.4	89.4	89.4
IN 9000	57.6	74.6	83.3	84.1	85.2	86.4	87.9	88.3	88.3	88.6	89.0	89.0	89.4	89.4	89.4	89.4
IN 8000	58.0	74.6	83.3	84.5	85.6	86.7	88.3	88.6	88.6	89.0	89.4	89.4	89.8	89.8	89.8	89.8
IN 7000	58.0	74.6	83.3	84.5	85.6	86.7	88.3	88.6	88.6	89.0	89.4	89.4	89.8	89.8	89.8	89.8
IN 6000	58.7	74.6	83.3	84.5	85.6	86.7	88.3	88.6	88.6	89.0	89.4	89.4	89.8	89.8	89.8	89.8
IN 5000	59.1	75.8	84.5	85.6	86.7	87.9	89.4	89.8	89.8	90.2	90.5	90.5	90.9	90.9	90.9	90.9
IN 4500	59.1	75.8	84.5	85.6	86.7	87.9	89.4	89.8	89.8	90.2	90.5	90.5	90.9	90.9	90.9	90.9
IN 4000	59.1	75.8	84.5	85.6	86.7	87.9	89.4	89.8	89.8	90.2	90.5	90.5	90.9	90.9	90.9	90.9
IN 3500	57.5	76.1	84.9	86.0	87.1	88.3	89.8	90.2	90.2	90.5	90.9	90.9	91.3	91.3	91.3	91.3
IN 3000	57.5	76.1	84.9	86.0	87.1	88.3	89.8	90.2	90.2	90.5	90.9	90.9	91.3	91.3	91.3	91.3
IN 2500	57.9	76.5	85.2	86.4	87.5	88.6	90.2	90.5	90.5	90.9	91.3	91.3	91.7	91.7	91.7	91.7
IN 2000	61.4	78.4	87.1	88.3	89.4	90.5	92.1	92.4	92.4	92.8	93.2	93.2	93.6	93.6	93.6	93.6
IN 1800	51.4	76.4	87.1	88.3	89.4	90.5	92.1	92.4	92.4	92.8	93.2	93.2	93.6	93.6	93.6	93.6
IN 1500	62.1	79.6	88.6	89.8	91.3	92.4	93.9	94.3	94.3	94.7	95.1	95.1	95.5	95.5	95.5	95.5
IN 1200	62.5	79.9	89.8	90.9	92.4	93.9	95.1	95.5	95.5	95.8	96.2	96.2	96.6	96.6	96.6	96.6
IN 1000	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9	98.9
IN 900	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9	98.9
IN 800	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9	98.9
IN 700	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9	98.9
IN 600	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9	98.9
IN 500	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9	98.9
IN 400	62.5	80.3	90.5	92.1	93.9	95.1	97.0	97.7	97.7	98.1	98.5	98.5	98.9	98.9	98.9	98.9
IN 300	62.5	80.3	90.5	92.1	93.9	95.1	97.0	98.1	98.1	98.5	99.2	99.2	99.6	99.6	99.6	99.6
IN 200	62.5	80.3	90.5	92.1	93.9	95.1	97.0	98.1	98.1	98.5	99.2	99.2	99.6	99.6	99.6	99.6
IN 100	62.5	80.3	90.5	92.1	93.9	95.1	97.0	98.1	98.1	98.5	99.2	99.2	99.6	99.6	99.6	99.6
IN 0	62.5	80.3	90.5	92.1	93.9	95.1	97.0	98.1	98.1	98.5	99.2	99.2	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 264

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	37.4	61.6	64.4	65.7	69.1	70.4	70.8	71.3	71.3	71.8	72.2	72.2	72.2	72.2	72.7	73.2
≥ 20000	31.0	63.4	66.2	67.6	70.8	72.2	72.7	73.2	73.2	73.6	74.1	74.1	74.1	74.1	74.5	75.0
≥ 18000	31.0	63.4	66.2	67.6	70.8	72.2	72.7	73.2	73.2	73.6	74.1	74.1	74.1	74.1	74.5	75.0
≥ 16000	31.5	63.9	66.7	68.1	71.3	72.7	73.2	73.6	73.6	74.1	74.5	74.5	74.5	74.5	75.0	75.5
≥ 14000	31.9	65.3	68.1	69.4	72.7	74.1	74.5	75.0	75.0	75.5	75.9	75.9	75.9	75.9	76.4	76.9
≥ 12000	31.9	65.7	68.5	70.4	73.6	75.0	75.5	75.9	75.9	76.4	76.7	76.9	76.9	76.9	77.3	77.8
≥ 10000	31.9	66.7	69.4	71.3	74.5	75.9	76.4	76.9	76.9	77.3	77.8	77.8	77.8	77.8	78.2	78.7
≥ 9000	31.9	66.7	69.4	71.3	74.5	75.9	76.4	76.9	76.9	77.3	77.8	77.8	77.8	77.8	78.2	79.7
≥ 8000	32.4	67.1	69.9	71.8	75.0	76.4	76.9	77.3	77.3	77.8	78.2	78.2	78.2	78.2	78.7	79.2
≥ 7000	32.4	67.1	69.9	71.8	75.0	76.4	76.9	77.3	77.3	77.8	78.2	78.2	78.2	78.2	79.7	79.2
≥ 6000	32.4	67.1	69.9	71.8	75.0	76.4	76.9	77.3	77.3	77.8	78.2	78.2	78.2	78.2	78.7	79.2
≥ 5000	33.8	66.5	71.3	73.2	76.4	77.8	78.2	78.7	78.7	79.2	79.6	79.6	79.6	79.6	80.1	80.6
≥ 4500	33.8	69.0	71.8	73.6	76.9	78.2	78.7	79.2	79.2	79.6	80.1	80.1	80.1	80.1	80.6	81.0
≥ 4000	33.8	69.0	71.8	73.6	76.9	78.2	78.7	79.2	79.2	79.6	80.1	80.1	80.1	80.1	80.6	81.0
≥ 3500	33.8	69.4	72.2	74.1	77.3	78.7	79.2	79.6	79.6	80.1	80.6	80.6	80.6	80.6	81.0	81.5
≥ 3000	34.3	69.9	72.7	74.5	77.8	79.2	79.6	80.1	80.1	80.6	81.0	81.0	81.0	81.0	81.5	81.9
≥ 2500	35.7	72.2	75.7	76.9	80.1	81.5	81.9	82.4	82.4	82.9	83.3	83.3	83.3	83.3	83.8	84.3
≥ 2000	36.6	75.0	77.8	79.6	82.9	84.3	84.7	85.2	85.2	85.7	86.1	86.1	86.1	86.1	86.6	87.0
≥ 1800	36.6	75.0	77.8	79.6	82.9	84.3	84.7	85.2	85.2	85.7	86.1	86.1	86.1	86.1	86.6	87.0
≥ 1500	37.7	76.9	80.6	82.9	86.1	87.5	88.0	88.4	88.4	88.9	89.4	89.4	89.4	89.4	89.8	90.3
≥ 1200	37.7	77.8	81.5	84.3	87.5	88.9	89.4	89.8	89.8	90.3	90.7	90.7	90.7	90.7	91.2	91.7
≥ 1000	37.5	79.2	83.3	86.1	90.3	91.7	92.1	92.6	92.6	93.1	93.5	93.5	93.5	93.5	94.0	94.4
≥ 900	37.5	79.2	83.3	86.1	90.3	91.7	92.1	92.6	92.6	93.1	93.5	93.5	93.5	93.5	94.0	94.4
≥ 800	37.5	79.6	84.3	87.0	91.2	92.6	93.1	93.5	93.5	94.0	94.4	94.4	94.4	94.4	94.9	95.4
≥ 700	37.5	79.6	84.3	87.5	91.7	93.1	93.5	94.0	94.0	94.4	94.9	94.9	94.9	94.9	95.4	95.8
≥ 600	37.5	79.6	84.3	87.5	91.7	93.1	93.5	94.0	94.0	94.4	94.9	94.9	94.9	94.9	95.4	95.8
≥ 500	37.5	79.6	84.3	87.5	91.7	93.5	94.0	94.4	94.4	94.9	95.4	95.4	95.4	95.4	95.8	96.3
≥ 400	37.5	79.6	84.3	87.5	91.7	93.5	94.4	94.9	94.9	95.4	95.8	95.8	95.8	95.8	96.3	96.8
≥ 300	37.5	79.6	84.3	87.5	92.1	94.0	94.9	95.8	95.8	96.3	96.8	96.8	96.8	96.8	97.2	97.7
≥ 200	37.5	79.6	84.3	87.5	92.1	94.0	94.9	95.8	95.8	96.3	96.8	96.8	96.8	96.8	97.2	97.7
≥ 100	37.5	79.6	84.3	87.5	92.1	94.0	94.9	95.8	95.8	96.3	96.8	96.8	96.8	97.2	97.2	98.6
≥ 0	37.5	79.6	84.3	87.5	92.1	94.0	94.9	95.8	95.8	96.3	96.8	96.8	97.2	97.2	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 216

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73, 77-82

MOY

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0	
NO CEILING	27.6	53.2	59.6	62.4	65.3	65.3	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.8	68.8	69.5	69.5
≥ 20000	22.7	54.9	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3	72.3
IV 18000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3	72.3
IV 16000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3	72.3
IV 14000	22.0	56.0	62.4	65.3	68.1	68.1	70.9	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3	72.3
IV 12000	22.0	56.7	63.1	66.7	69.5	69.5	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.1	73.1	73.8	73.8
IV 10000	22.0	56.2	64.5	68.1	70.9	70.9	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.5	74.5	75.2	75.2
IV 9000	22.0	56.2	64.5	68.1	70.9	70.9	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.5	74.5	75.2	75.2
IV 8000	22.0	56.2	64.5	68.1	70.9	70.9	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.5	74.5	75.2	75.2
IV 7000	22.0	56.2	64.5	68.1	70.9	70.9	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.5	74.5	75.2	75.2
IV 6000	22.0	56.2	64.5	68.1	70.9	70.9	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.5	74.5	75.2	75.2
IV 5000	22.0	56.2	64.5	68.1	70.9	70.9	73.8	73.8	73.8	73.8	73.8	73.8	73.8	74.5	74.5	75.2	75.2
IV 4500	22.0	58.9	65.3	68.8	71.6	71.6	74.5	74.5	74.5	74.5	74.5	74.5	74.5	75.2	75.2	75.9	75.9
IV 4000	22.7	59.6	66.0	69.5	72.3	72.3	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.9	75.9	76.6	76.6
IV 3500	22.7	60.3	66.7	70.2	73.1	73.1	75.9	75.9	75.9	75.9	75.9	75.9	75.9	76.6	76.6	77.3	77.3
IV 3000	24.8	62.4	68.8	72.3	75.2	75.2	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.7	78.7	79.4	79.4
IV 2500	24.8	63.1	69.5	73.1	75.9	75.9	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.4	79.4	80.1	80.1
IV 2000	24.8	65.3	71.6	75.2	78.0	78.0	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.6	81.6	82.3	82.3
IV 1800	24.8	65.3	71.6	75.2	78.0	78.0	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.6	81.6	82.3	82.3
IV 1500	25.5	67.5	75.9	79.4	82.3	82.3	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.8	85.8	86.5	86.5
IV 1200	25.5	70.9	77.3	81.0	84.4	84.4	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.9	87.9	88.7	88.7
IV 1000	26.2	73.8	80.1	86.5	90.1	90.1	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.6	93.6	94.3	94.3
IV 900	26.2	73.8	80.1	86.5	90.1	90.1	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.6	93.6	94.3	94.3
IV 800	26.2	73.8	80.1	86.5	90.1	90.1	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.6	93.6	94.3	94.3
IV 700	26.2	74.5	80.9	87.2	90.8	90.8	93.6	93.6	93.6	93.6	93.6	93.6	93.6	94.3	94.3	95.0	95.0
IV 600	26.2	74.5	80.9	87.2	90.8	90.8	93.6	93.6	93.6	93.6	93.6	93.6	93.6	94.3	94.3	95.0	95.0
IV 500	26.2	74.5	80.9	87.2	90.8	90.8	93.6	93.6	93.6	93.6	93.6	93.6	93.6	94.3	94.3	95.0	95.0
IV 400	26.2	74.5	80.9	87.2	90.8	90.8	93.6	93.6	93.6	93.6	93.6	93.6	93.6	94.3	94.3	95.0	95.0
IV 300	26.2	75.2	81.6	87.9	91.5	91.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.7	95.7
IV 200	26.2	75.2	81.6	87.9	91.5	91.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.7	95.7
IV 100	26.2	75.2	81.6	87.9	91.5	91.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.7	95.7
IV 0	26.2	75.2	81.6	87.9	91.5	91.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.7	95.7

TOTAL NUMBER OF OBSERVATIONS

101

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

5 15
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73-82
YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¾	≥ 0
NO CEILING	42.4	65.8	65.6	67.0	70.3	71.0	72.4	73.0	73.7	73.5	73.7	73.7	74.0	74.0	74.2	74.3
≥ 20000	44.6	64.5	69.5	71.7	74.4	75.2	76.7	77.3	77.3	77.9	78.1	78.1	78.4	78.4	79.6	78.7
IVIV 18000	44.6	64.5	69.5	71.7	74.4	75.2	76.7	77.3	77.3	77.9	78.1	78.1	78.4	78.4	79.6	78.7
IVIV 16000	44.6	64.5	69.5	71.7	74.4	75.2	76.7	77.3	77.3	77.9	78.1	78.1	78.4	78.4	79.6	78.7
IVIV 14000	45.0	65.2	70.2	72.4	75.1	75.9	77.4	78.3	78.3	78.6	78.9	78.9	79.1	79.1	79.4	79.4
IVIV 12000	45.1	65.7	71.0	73.3	76.0	76.8	78.4	79.0	79.0	79.6	79.8	79.8	80.1	80.1	80.3	80.4
IVIV 10000	45.4	66.6	71.8	74.2	76.9	77.7	79.4	79.9	79.9	80.6	80.8	80.8	81.1	81.1	81.3	81.4
IVIV 9000	45.4	66.6	71.8	74.2	76.9	77.7	79.4	79.9	79.9	80.6	80.8	80.8	81.1	81.1	81.3	81.4
IVIV 8000	45.7	67.0	72.3	74.7	77.4	78.2	79.8	80.4	80.4	81.1	81.3	81.3	81.6	81.6	81.8	81.9
IVIV 7000	45.8	67.1	72.4	74.8	77.5	78.3	79.9	80.5	80.5	81.1	81.4	81.4	81.7	81.7	81.9	82.0
IVIV 6000	45.9	67.1	72.4	74.8	77.5	78.3	79.9	80.5	80.5	81.1	81.4	81.4	81.7	81.7	81.9	82.0
IVIV 5000	46.2	67.5	72.8	75.2	77.9	78.7	80.3	80.9	80.9	81.6	81.8	81.8	82.1	82.1	82.3	82.4
IVIV 4500	46.4	67.9	73.2	75.6	78.3	79.1	80.7	81.3	81.3	81.9	82.2	82.2	82.5	82.5	82.7	82.8
IVIV 4000	46.6	68.1	73.4	75.8	78.5	79.3	80.9	81.5	81.5	82.1	82.4	82.4	82.7	82.7	82.9	83.0
IVIV 3500	47.1	68.6	74.0	76.4	79.1	79.9	81.6	82.1	82.1	82.8	83.1	83.1	83.3	83.3	83.5	83.6
IVIV 3000	47.6	69.3	74.7	77.2	79.9	80.7	82.3	82.9	82.9	83.5	83.8	83.8	84.1	84.1	84.3	84.4
IVIV 2500	49.0	71.0	76.4	78.9	81.6	82.4	84.0	84.6	84.6	85.2	85.5	85.5	85.8	85.8	86.0	86.1
IVIV 2000	50.2	73.0	78.5	81.2	84.0	84.8	86.4	87.0	87.0	87.7	87.9	87.9	88.2	88.2	88.4	88.5
IVIV 1800	50.3	73.2	78.6	81.3	84.2	85.0	86.7	87.2	87.2	87.9	88.2	88.2	88.4	88.4	88.6	88.7
IVIV 1500	51.1	75.0	81.0	83.6	86.8	87.7	89.5	90.1	90.1	90.8	91.1	91.1	91.3	91.3	91.5	91.6
IVIV 1200	51.2	75.7	81.8	84.9	88.0	89.0	90.9	91.6	91.6	92.3	92.6	92.6	92.9	92.9	93.1	93.2
IVIV 1000	51.5	76.7	83.1	86.4	90.1	91.1	93.3	94.2	94.2	95.0	95.2	95.2	95.5	95.5	95.7	95.8
IVIV 900	51.5	76.7	83.1	86.4	90.1	91.1	93.3	94.2	94.2	95.0	95.2	95.2	95.5	95.5	95.7	95.8
IVIV 800	51.5	76.8	83.3	86.6	90.3	91.5	93.7	94.7	94.7	95.5	95.7	95.7	96.0	96.0	96.2	96.3
IVIV 700	51.5	76.9	83.4	86.8	90.5	91.8	94.0	95.1	95.1	95.9	96.2	96.2	96.5	96.5	96.7	96.8
IVIV 600	51.5	76.9	83.5	86.9	90.6	91.8	94.0	95.4	95.4	96.2	96.5	96.5	96.7	96.7	97.0	97.1
IVIV 500	51.5	76.9	83.5	86.9	90.6	91.9	94.3	95.8	95.8	96.6	96.9	96.9	97.2	97.2	97.4	97.5
IVIV 400	51.5	76.9	83.5	86.9	90.6	92.0	94.4	96.0	96.0	96.8	97.2	97.2	97.5	97.5	97.7	97.8
IVIV 300	51.5	77.0	83.6	87.0	90.8	92.1	94.5	96.2	96.2	97.2	97.6	97.6	98.1	98.1	98.3	98.4
IVIV 200	51.5	77.0	83.6	87.0	90.8	92.1	94.5	96.4	96.4	97.3	97.8	97.8	98.4	98.4	98.6	98.7
IVIV 100	51.5	77.0	83.6	87.0	90.8	92.1	94.5	96.4	96.4	97.3	97.8	97.8	98.4	98.4	98.6	98.7
IVIV 0	51.5	77.0	83.6	87.0	90.8	92.1	94.5	96.4	96.4	97.3	97.8	97.8	98.4	98.4	98.6	98.7

TOTAL NUMBER OF OBSERVATIONS 1409

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7 15
STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 3/16	≥ ¼	≥ 0	
NO CEILING	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 20000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 18000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 16000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 14000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 12000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 10000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 9000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 8000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 7000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 6000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 5000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 4500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 4000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 3500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 3000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 2500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 2000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1800	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1200	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 1000	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 900	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 800	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 700	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 600	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 500	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 400	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 300	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 200	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 100	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
IV 0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

7315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

73
YEARS

YEARS

DLC
MONTH

PERCENTAGE FREQUENCY OF OCCURENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

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

TOTAL NUMBER OF OBSERVATIONS 1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

27
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	49.2	54.9	62.7	63.6	65.5	65.5	65.9	66.3	66.3	67.4	67.4	67.4	68.2	68.2	68.2	69.4
≥ 20000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IV 18000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IV 16000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IV 14000	51.6	62.4	65.5	67.4	69.8	70.2	70.5	70.9	70.9	72.1	72.1	72.1	72.9	72.9	72.9	74.0
IV 12000	51.9	63.2	66.3	67.4	70.2	70.5	70.9	71.3	71.3	72.9	72.9	72.9	73.6	73.6	73.6	74.8
IV 10000	52.7	64.3	67.4	69.4	71.3	71.7	72.1	72.5	72.5	74.0	74.0	74.0	74.8	74.8	74.8	76.0
IV 9000	52.7	64.3	67.4	69.4	71.3	71.7	72.1	72.5	72.5	74.0	74.0	74.0	74.8	74.8	74.8	76.0
IV 8000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 7000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 6000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IV 5000	53.4	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
IV 4500	53.4	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
IV 4000	53.4	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
IV 3500	53.4	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
IV 3000	54.7	66.7	70.2	71.7	74.0	74.4	74.8	75.2	75.2	76.7	76.7	76.7	77.5	77.5	77.5	78.7
IV 2500	55.4	67.4	71.9	72.5	75.2	75.6	76.0	76.4	76.4	77.9	77.9	77.9	78.7	78.7	78.7	79.8
IV 2000	55.4	67.4	72.1	73.6	76.4	76.7	77.5	77.9	77.9	79.5	79.5	79.5	80.2	80.2	80.2	81.4
IV 1800	56.2	68.2	72.5	74.0	76.7	77.1	77.9	78.3	78.3	79.8	79.8	79.8	80.6	80.6	80.6	81.8
IV 1500	57.4	70.5	75.6	77.1	81.0	82.2	83.0	83.7	83.7	85.3	85.7	85.7	86.4	86.4	86.4	87.6
IV 1200	57.8	71.3	76.7	78.3	82.6	83.7	84.9	85.7	85.7	87.6	88.0	88.0	88.8	88.8	88.8	89.9
IV 1000	57.8	71.7	77.1	79.1	83.7	84.9	86.4	87.6	87.6	89.5	89.9	89.9	90.7	90.7	90.7	91.9
IV 900	57.8	71.7	77.1	79.1	83.7	84.9	86.4	87.6	87.6	89.5	89.9	89.9	90.7	90.7	90.7	91.9
IV 800	57.8	71.7	77.5	79.8	84.5	85.7	87.2	88.8	88.8	91.1	91.5	91.5	92.3	92.3	92.3	93.4
IV 700	57.8	71.7	77.9	79.8	84.5	85.7	87.2	88.8	88.8	91.1	91.5	91.5	92.3	92.3	92.3	93.4
IV 600	57.8	71.7	77.9	79.8	84.5	86.1	87.6	89.5	89.5	91.9	92.3	92.3	93.0	93.0	93.0	94.2
IV 500	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IV 400	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IV 300	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IV 200	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IV 100	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IV 0	57.8	71.7	78.7	80.6	85.3	86.8	88.4	90.7	90.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4

TOTAL NUMBER OF OBSERVATIONS 258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

73-5
STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82
YEARS

YEARS

DEC
MONTH

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	49.2	53.9	62.7	63.6	65.5	65.5	65.9	66.3	66.3	67.4	67.4	67.4	68.2	68.2	68.2	69.4
≥ 20000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IVV 18000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
16000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
IVV 14000	51.6	62.4	65.5	67.1	69.4	69.8	70.2	70.5	70.5	71.7	71.7	71.7	72.5	72.5	72.5	73.6
12000	51.9	63.2	66.3	67.4	70.2	70.5	70.9	71.3	71.3	72.9	72.9	72.9	73.6	73.6	73.6	74.8
IVV 10000	52.7	64.3	67.4	69.4	71.3	71.7	72.1	72.5	72.5	74.0	74.0	74.0	74.8	74.8	74.8	76.0
9000	52.7	64.3	67.4	69.4	71.3	71.7	72.1	72.5	72.5	74.0	74.0	74.0	74.8	74.8	74.8	76.0
IVV 8000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
7000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
IVV 6000	53.1	64.7	67.8	69.4	71.7	72.1	72.5	72.9	72.9	74.4	74.4	74.4	75.2	75.2	75.2	76.4
5000	53.9	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
IVV 4500	53.9	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
4000	53.9	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
IVV 3500	53.9	65.5	68.6	70.2	72.5	72.9	73.3	73.6	73.6	75.2	75.2	75.2	76.0	76.0	76.0	77.1
3000	54.7	66.7	70.2	71.7	74.0	74.4	74.8	75.2	75.2	76.7	76.7	76.7	77.5	77.5	77.5	78.7
IVV 2500	55.4	67.4	71.9	72.5	75.2	75.6	76.0	76.4	76.4	77.9	77.9	77.9	78.7	78.7	78.7	79.8
2000	55.4	67.4	71.9	72.5	75.2	75.6	76.0	76.4	76.4	77.9	77.9	77.9	78.7	78.7	78.7	79.8
IVV 1800	56.2	68.2	72.5	74.0	76.7	77.1	77.9	78.3	78.3	79.8	79.8	79.8	80.6	80.6	80.6	81.8
1500	57.4	70.5	75.6	77.1	81.0	82.2	83.0	83.7	83.7	85.3	85.7	85.7	86.4	86.4	86.4	87.6
IVV 1200	57.8	71.3	76.7	78.3	82.6	83.7	84.9	85.7	85.7	87.6	88.0	88.0	88.8	88.8	88.8	89.9
1000	57.8	71.3	76.7	78.3	82.6	83.7	84.9	85.7	85.7	87.6	88.0	88.0	88.8	88.8	88.8	89.9
IVV 900	57.8	71.7	77.1	79.1	83.7	84.9	86.4	87.6	87.6	89.5	89.9	89.9	90.7	90.7	90.7	91.9
800	57.8	71.7	77.1	79.1	83.7	84.9	86.4	87.6	87.6	89.5	89.9	89.9	90.7	90.7	90.7	91.9
IVV 700	57.8	71.7	77.9	79.8	84.5	85.7	87.2	88.8	88.8	91.1	91.5	91.5	92.3	92.3	92.3	93.4
600	57.8	71.7	77.9	79.8	84.5	85.7	87.2	88.8	88.8	91.1	91.5	91.5	92.3	92.3	92.3	93.4
IVV 500	57.8	71.7	78.7	80.6	85.3	86.8	88.4	89.7	89.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
400	57.8	71.7	78.7	80.6	85.3	86.8	88.4	89.7	89.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IVV 300	57.8	71.7	78.7	80.6	85.3	86.8	88.4	89.7	89.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
200	57.8	71.7	78.7	80.6	85.3	86.8	88.4	89.7	89.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
IVV 100	57.8	71.7	78.7	80.6	85.3	86.8	88.4	89.7	89.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4
0	57.8	71.7	78.7	80.6	85.3	86.8	88.4	89.7	89.7	93.0	93.4	93.4	94.2	94.2	94.2	95.4

TOTAL NUMBER OF OBSERVATIONS 258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-87

YEARS

DLC

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	¾	¾	¾	¾	≥ 0
NO CEILING	43.3	57.8	65.7	66.6	68.7	69.4	70.9	70.9	70.9	72.4	72.4	72.4	72.4	72.4	72.8	72.8
IV 20000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.4	78.4	78.4
IV 18000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.4	78.4	78.4
IV 16000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.4	78.4	78.4
IV 14000	47.0	61.9	69.8	71.6	73.5	74.3	76.1	76.5	76.5	78.0	78.0	78.0	78.0	78.4	78.4	78.4
IV 12000	47.0	63.1	71.9	72.8	75.1	75.8	77.6	78.4	78.4	79.9	79.9	79.9	79.9	80.2	80.2	80.2
IV 10000	49.1	63.4	71.3	73.1	75.4	76.1	78.0	78.7	78.7	80.2	80.2	80.2	80.2	80.6	80.6	80.6
IV 9000	49.1	64.6	72.4	74.3	76.5	77.2	79.1	79.9	79.9	81.3	81.3	81.3	81.3	81.7	81.7	81.7
IV 8000	49.6	64.9	72.8	74.6	76.9	77.6	79.5	80.2	80.2	81.7	81.7	81.7	81.7	82.1	82.1	82.1
IV 7000	49.6	64.9	72.8	74.6	76.9	77.6	79.5	80.2	80.2	81.7	81.7	81.7	81.7	82.1	82.1	82.1
IV 6000	51.7	65.2	73.1	75.0	77.2	78.0	79.9	80.6	80.6	82.1	82.1	82.1	82.1	82.5	82.5	82.5
IV 5000	50.0	65.7	73.5	75.4	77.6	78.4	80.2	81.0	81.0	82.5	82.5	82.5	82.5	82.9	82.9	82.9
IV 4500	50.0	65.7	73.5	75.4	77.6	78.4	80.2	81.0	81.0	82.5	82.5	82.5	82.5	82.9	82.9	82.9
IV 4000	50.0	66.0	73.9	75.8	78.0	78.7	80.6	81.3	81.3	82.8	82.8	82.8	82.8	83.2	83.2	83.2
IV 3500	51.5	67.2	75.4	77.2	79.5	80.2	82.1	82.8	82.8	84.3	84.3	84.3	84.3	84.7	84.7	84.7
IV 3000	53.0	67.4	77.6	79.5	81.7	82.5	84.3	85.1	85.1	86.6	86.6	86.6	86.6	86.9	86.9	86.9
IV 2500	55.2	71.3	79.5	81.3	83.6	84.3	86.2	86.9	86.9	88.4	88.4	88.4	88.4	88.8	88.8	88.8
IV 2000	55.6	72.4	81.1	82.8	85.1	85.8	87.7	88.4	88.4	89.9	89.9	89.9	89.9	90.3	90.3	90.3
IV 1800	58.3	73.4	81.7	83.6	85.8	86.9	88.8	89.6	89.6	91.1	91.1	91.1	91.1	91.4	91.4	91.4
IV 1500	57.1	75.4	84.7	86.6	88.8	89.9	91.8	92.5	92.5	94.0	94.0	94.0	94.0	94.4	94.4	94.4
IV 1200	57.1	75.4	85.1	86.9	89.2	90.3	92.2	92.9	92.9	94.4	94.4	94.4	94.4	94.8	94.8	94.8
IV 1000	58.6	76.9	85.6	88.4	91.4	92.5	94.4	95.2	95.2	96.6	96.6	96.6	96.6	97.0	97.0	97.0
IV 900	58.6	76.9	86.6	88.4	91.4	92.5	94.4	95.2	95.2	96.6	96.6	96.6	96.6	97.0	97.0	97.0
IV 800	58.6	76.9	86.6	88.4	91.4	92.5	94.4	95.2	95.2	97.0	97.0	97.0	97.0	97.4	97.4	97.4
IV 700	58.6	76.9	86.6	88.4	91.4	92.5	94.4	95.5	95.5	97.4	97.4	97.4	97.4	97.8	97.8	97.8
IV 600	58.6	76.9	86.6	88.4	91.4	92.5	94.4	95.5	95.5	97.8	97.8	97.8	97.8	98.1	98.1	98.1
IV 500	58.6	76.9	86.6	88.4	91.4	92.5	94.4	95.9	95.9	98.1	98.1	98.1	98.1	98.5	98.5	98.5
IV 400	58.6	76.9	86.6	88.4	91.4	92.5	94.4	95.9	95.9	98.1	98.1	98.1	98.1	98.5	98.5	98.5
IV 300	58.6	76.9	86.6	88.4	91.4	92.5	94.4	95.9	95.9	98.1	98.1	98.1	98.1	98.5	98.5	98.5
IV 200	58.6	76.9	86.6	88.4	91.4	92.5	94.4	95.9	95.9	98.5	98.5	98.5	98.5	99.3	99.3	99.3
IV 100	58.6	76.9	86.6	88.4	91.4	92.5	94.4	96.3	96.3	98.9	98.9	98.9	98.9	99.6	99.6	99.6
IV 0	58.6	76.9	86.6	88.4	91.4	92.5	94.4	96.3	96.3	98.9	98.9	98.9	98.9	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 258

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

73-87

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
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	5.8	6.1	6.3	6.7	71.3	72.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	74.3
IV 20000	5.6	6.2	72.4	75.0	78.4	79.1	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.7	82.1
IV 18000	5.6	6.2	72.4	75.0	78.4	79.1	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.7	81.7	82.1
IV 16000	5.6	6.2	72.4	75.0	78.4	79.1	81.0	81.3	81.3	81.3	81.3	81.3	81.3	81.7	81.7	82.1
IV 14000	56.7	67.5	72.8	75.4	78.7	79.5	81.3	81.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.5
IV 12000	56.3	66.3	73.9	76.9	80.2	81.0	82.8	83.2	83.2	83.2	83.2	83.2	83.2	83.6	83.6	84.0
IV 10000	56.7	69.0	74.6	77.6	81.0	81.7	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.3	84.3	84.7
IV 9000	56.7	69.0	74.6	77.6	81.0	81.7	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.3	84.3	84.7
IV 8000	56.7	69.0	74.6	77.6	81.0	81.7	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.3	84.3	84.7
IV 7000	56.7	69.0	74.6	77.6	81.0	81.7	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.3	84.3	84.7
IV 6000	56.7	69.0	74.6	77.6	81.0	81.7	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.3	84.3	84.7
IV 5000	56.7	69.0	74.6	77.6	81.0	81.7	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.3	84.3	84.7
IV 4500	56.7	69.0	74.6	77.6	81.0	81.7	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.3	84.3	84.7
IV 4000	57.5	69.6	75.4	78.4	81.7	82.5	84.3	84.7	84.7	84.7	84.7	84.7	84.7	85.1	85.1	85.5
IV 3500	58.2	70.5	76.1	79.1	82.5	83.2	85.1	85.5	85.5	85.5	85.5	85.5	85.5	85.8	85.8	86.2
IV 3000	58.5	72.6	78.4	81.3	84.7	85.5	87.3	87.7	87.7	87.7	87.7	87.7	87.7	88.1	88.1	88.4
IV 2500	61.2	73.5	79.5	82.5	85.8	86.6	88.4	88.8	88.8	88.8	88.8	88.8	88.8	89.2	89.2	89.6
IV 2000	61.6	75.0	81.3	84.3	87.7	88.4	90.3	90.7	90.7	90.7	90.7	90.7	90.7	91.0	91.0	91.4
IV 1800	62.3	75.8	82.1	85.1	88.4	89.2	91.0	91.4	91.4	91.4	91.4	91.4	91.4	91.8	91.8	92.2
IV 1500	62.7	77.6	84.3	87.3	90.7	91.4	93.3	93.7	93.7	93.7	93.7	93.7	93.7	94.0	94.0	94.4
IV 1200	62.7	73.3	84.7	87.7	91.0	91.8	93.7	94.0	94.0	94.0	94.0	94.0	94.0	94.4	94.4	94.8
IV 1000	63.1	79.1	86.2	89.2	92.5	93.3	95.2	95.5	95.5	95.5	95.5	95.5	95.5	95.9	95.9	96.3
IV 900	63.4	79.5	86.6	89.6	92.9	93.7	95.5	95.9	95.9	95.9	95.9	95.9	95.9	96.3	96.3	96.6
IV 800	63.8	79.9	86.9	89.9	93.3	94.0	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.6	96.6	97.0
IV 700	63.8	79.9	86.9	89.9	93.3	94.0	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.6	96.6	97.0
IV 600	63.8	79.9	86.9	89.9	93.3	94.0	95.9	96.3	96.3	96.3	96.3	96.3	96.3	96.6	96.6	97.0
IV 500	63.8	80.2	87.3	90.3	93.7	94.4	96.3	97.4	97.4	97.4	97.4	97.4	97.4	97.8	97.8	98.1
IV 400	63.8	80.2	87.3	90.3	93.7	94.4	96.3	97.4	97.4	97.4	97.4	97.4	97.4	97.8	97.8	98.1
IV 300	63.8	80.2	87.3	90.3	93.7	94.4	96.3	97.4	97.4	97.4	97.4	97.4	97.4	97.8	97.8	98.1
IV 200	63.8	80.2	87.3	90.3	93.7	94.4	96.3	97.4	97.4	97.4	97.4	97.4	97.4	97.8	97.8	98.1
IV 100	63.8	80.2	87.3	90.3	93.7	94.4	96.3	97.4	97.4	97.4	97.4	97.4	97.4	97.8	97.8	98.1
IV 0	63.8	80.2	87.3	90.3	93.7	94.4	96.3	97.4	97.4	97.4	97.4	97.4	97.4	97.8	97.8	98.1

TOTAL NUMBER OF OBSERVATIONS

268

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-81

D.L.C.

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
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	57.2	60.7	65.2	67.1	69.7	71.4	71.2	71.5	71.5	71.9	72.3	72.3	72.7	72.7	73.0	
IV 20000	57.3	60.3	64.5	70.4	79.9	80.5	82.0	82.4	82.4	82.6	81.2	83.2	83.5	83.9	83.5	
IV 18000	57.3	64.3	74.5	78.4	79.8	80.5	82.7	82.4	82.4	82.8	83.2	83.2	83.5	83.9	83.9	
IV 16000	57.3	69.3	74.9	76.8	80.7	80.9	82.4	82.6	82.8	83.2	83.5	83.5	83.9	83.7	84.1	
IV 14000	57.7	69.7	75.3	77.2	80.5	81.3	82.8	83.2	83.2	83.5	83.9	83.9	84.3	84.3	84.6	
IV 12000	58.8	72.2	76.8	78.7	82.1	82.8	84.3	85.0	85.0	85.4	85.4	85.8	86.1	86.1	86.5	
IV 10000	59.3	73.5	77.2	79.0	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.9	
IV 9000	59.3	71.5	77.2	79.1	82.4	83.2	84.6	85.4	85.4	85.8	86.1	86.1	86.5	86.5	86.9	
IV 8000	59.6	72.3	77.9	79.8	83.2	83.9	85.4	86.1	86.1	86.5	86.9	86.9	87.3	87.3	87.6	
IV 7000	59.5	72.3	77.9	79.8	83.2	83.9	85.4	86.1	86.1	86.5	86.9	86.9	87.3	87.3	87.6	
IV 6000	59.6	72.3	77.9	79.8	83.2	83.9	85.4	86.1	86.1	86.5	86.9	86.9	87.3	87.3	87.6	
IV 5000	59.9	72.7	78.3	80.2	83.5	84.3	85.8	86.5	86.5	86.9	87.3	87.3	87.6	87.6	88.0	
IV 4500	59.9	72.7	78.3	80.2	83.5	84.3	85.8	86.5	86.5	86.9	87.3	87.3	87.6	87.6	88.0	
IV 4000	59.9	72.7	78.3	80.2	83.5	84.3	85.8	86.5	86.5	86.9	87.3	87.3	87.6	87.6	88.0	
IV 3500	59.9	72.7	78.3	80.2	83.5	84.3	85.8	86.5	86.5	86.9	87.3	87.3	87.6	87.6	88.0	
IV 3000	60.1	73.4	79.1	81.0	84.3	85.0	86.5	87.3	87.3	87.6	88.0	88.0	88.4	88.4	88.8	
IV 2500	61.4	74.2	79.8	81.7	85.1	85.8	87.3	88.0	88.0	88.4	88.8	88.8	89.2	89.2	89.6	
IV 2000	62.6	76.0	81.7	83.5	86.9	87.6	89.1	89.9	89.9	90.3	90.6	91.0	91.4	91.4	91.8	
IV 1800	62.6	76.0	81.7	83.5	86.9	87.6	89.1	89.9	89.9	90.3	90.6	91.0	91.4	91.4	91.8	
IV 1500	64.4	78.2	84.3	86.1	89.5	90.3	91.8	92.5	92.5	92.9	93.3	93.7	94.1	94.1	94.5	
IV 1200	65.5	79.4	85.4	87.3	90.6	91.4	92.9	93.6	93.6	94.0	94.4	94.8	95.2	95.2	95.6	
IV 1000	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 900	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 800	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 700	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 600	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 500	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 400	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 300	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 200	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 100	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	
IV 0	65.7	80.2	86.1	88.0	91.8	92.5	94.0	94.8	94.8	95.1	95.5	95.9	96.3	96.3	96.7	

TOTAL NUMBER OF OBSERVATIONS

67

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

DEC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

14
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	33.7	57.1	61.8	64.2	68.4	68.4	68.9	69.8	69.8	70.8	70.8	70.3	71.7	71.7	71.7	72.2
≥ 20000	33.5	57.9	64.8	67.0	72.2	72.2	73.1	74.5	74.5	75.5	75.5	75.5	76.4	76.4	76.4	76.9
IVIV 18000	33.5	57.9	64.8	67.0	72.2	72.2	73.1	74.5	74.5	75.5	75.5	75.5	76.4	76.4	76.4	76.9
IVIV 16000	33.5	57.9	65.1	67.5	72.6	72.6	73.6	75.0	75.0	75.9	75.9	75.9	76.9	76.9	76.9	77.4
IVIV 14000	33.5	57.9	65.1	67.5	72.6	72.6	73.6	75.0	75.0	75.9	75.9	75.9	76.9	76.9	76.9	77.4
IVIV 12000	34.4	61.0	66.7	68.4	74.1	74.1	75.0	76.4	76.4	77.4	77.4	77.4	78.3	78.3	78.3	78.8
IVIV 10000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IVIV 9000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IVIV 8000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IVIV 7000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IVIV 6000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IVIV 5000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IVIV 4500	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IVIV 4000	34.4	61.0	67.1	69.3	75.0	75.0	75.9	77.4	77.4	78.3	78.3	78.3	79.3	79.3	79.3	79.7
IVIV 3500	35.4	62.7	67.9	70.3	75.9	75.9	76.9	78.3	78.3	79.3	79.3	79.3	80.2	80.2	80.2	80.7
IVIV 3000	35.4	62.7	67.9	70.3	75.9	75.9	76.9	78.3	78.3	79.3	79.3	79.3	80.2	80.2	80.2	80.7
IVIV 2500	37.3	64.6	69.8	72.2	77.8	77.8	78.8	80.2	80.2	81.1	81.1	81.1	82.1	82.1	82.1	82.6
IVIV 2000	37.7	67.5	72.6	75.0	80.7	80.7	81.6	83.0	83.0	84.0	84.0	84.0	84.9	84.9	84.9	85.4
IVIV 1800	37.7	67.5	72.6	75.0	80.7	80.7	81.6	83.0	83.0	84.0	84.0	84.0	84.9	84.9	84.9	85.4
IVIV 1500	37.7	67.5	72.6	75.0	80.7	80.7	81.6	83.0	83.0	84.0	84.0	84.0	84.9	84.9	84.9	85.4
IVIV 1200	39.6	73.1	78.3	80.7	86.3	86.3	87.3	88.7	88.7	89.6	89.6	89.6	90.6	90.6	90.6	91.1
IVIV 1000	39.6	73.1	78.3	80.7	86.3	86.3	87.3	88.7	88.7	89.6	89.6	89.6	90.6	90.6	90.6	91.1
IVIV 900	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 800	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 700	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 600	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 500	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 400	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 300	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 200	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 100	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4
IVIV 0	41.7	74.5	81.7	83.0	88.7	88.7	89.6	91.0	91.0	92.0	92.0	92.0	92.9	92.9	92.9	93.4

TOTAL NUMBER OF OBSERVATIONS 412

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73, 77-87

DLC

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

72

HOURLY (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	24.9	47.0	49.2	52.4	56.4	56.4	56.4	57.1	57.1	57.9	58.7	58.7	58.7	58.7	60.3	60.3
≥ 20000	25.4	50.8	52.4	56.4	60.3	60.3	61.1	61.9	61.9	64.3	65.1	65.1	65.1	65.1	66.7	66.7
IVV 18000	25.4	50.8	52.4	56.4	60.3	60.3	61.1	61.9	61.9	64.3	65.1	65.1	65.1	65.1	66.7	66.7
IVV 16000	25.4	50.8	52.4	57.1	61.1	61.1	61.9	62.7	62.7	65.1	65.9	65.9	65.9	65.9	67.5	67.5
IVV 14000	25.4	50.8	52.4	57.1	61.1	61.1	61.9	62.7	62.7	65.1	65.9	65.9	65.9	65.9	67.5	67.5
IVV 12000	25.4	51.6	53.2	57.9	62.7	62.7	63.5	64.3	64.3	66.7	67.5	67.5	67.5	67.5	69.1	69.1
IVV 10000	25.4	51.6	53.2	57.9	62.7	62.7	63.5	64.3	64.3	66.7	67.5	67.5	67.5	67.5	69.1	69.1
IVV 9000	25.4	51.6	53.2	57.9	62.7	62.7	63.5	64.3	64.3	66.7	67.5	67.5	67.5	67.5	69.1	69.1
IVV 8000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
IVV 7000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
IVV 6000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
IVV 5000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
IVV 4500	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
IVV 4000	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
IVV 3500	27.0	54.0	55.6	60.3	65.1	65.1	65.9	66.7	66.7	69.1	69.8	69.8	69.8	69.8	71.4	71.4
IVV 3000	27.0	55.6	57.1	61.9	66.7	66.7	67.5	68.3	68.3	70.6	71.4	71.4	71.4	71.4	73.0	73.0
IVV 2500	29.6	58.7	61.3	65.1	69.8	69.8	70.6	71.4	71.4	73.8	74.6	74.6	74.6	74.6	76.2	76.2
IVV 2000	30.2	62.7	64.3	69.1	73.8	73.8	74.6	75.4	75.4	77.8	78.6	78.6	78.6	78.6	80.2	80.2
IVV 1800	30.2	62.7	64.3	69.1	73.8	73.8	74.6	75.4	75.4	77.8	78.6	78.6	78.6	78.6	80.2	80.2
IVV 1500	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 1200	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 1000	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 900	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 800	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 700	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 600	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 500	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 400	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 300	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 200	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 100	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5
IVV 0	31.0	65.3	69.8	74.6	80.2	80.2	81.0	81.8	81.8	84.1	84.9	84.9	84.9	84.9	86.5	86.5

TOTAL NUMBER OF OBSERVATIONS 126

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

IMPERIAL BEACH, CALIFORNIA

STATION NAME

73-82

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	43.2	50.0	62.8	64.8	67.6	68.1	68.9	69.3	69.3	70.0	70.2	71.2	71.6	71.7	71.8	71.7
≥ 20000	47.4	63.1	68.1	71.3	73.5	74.0	75.3	75.8	75.8	76.8	76.9	76.9	77.3	77.4	77.5	78.0
IV 18000	47.4	63.1	68.2	71.5	73.7	74.2	75.5	76.0	76.0	77.0	77.1	77.1	77.5	77.6	77.8	78.2
IV 16000	47.4	63.1	68.2	71.5	73.7	74.2	75.5	76.0	76.0	77.0	77.1	77.1	77.5	77.6	77.8	78.2
IV 14000	47.6	63.3	68.4	71.7	73.9	74.4	75.7	76.3	76.3	77.2	77.3	77.3	77.8	77.8	78.0	78.4
IV 12000	48.2	64.7	69.4	71.8	75.2	75.7	77.0	77.7	77.7	78.7	78.8	78.8	79.2	79.3	79.5	79.9
IV 10000	48.8	64.9	70.0	72.4	75.8	76.3	77.6	78.3	78.3	79.3	79.5	79.5	79.9	80.0	80.1	80.5
IV 9000	48.8	65.1	70.3	72.6	76.2	76.5	77.8	78.5	78.5	79.5	79.7	79.7	80.1	80.2	80.3	80.7
IV 8000	49.1	65.6	71.8	73.1	76.5	77.1	78.3	79.0	79.1	80.0	80.2	80.2	80.6	80.7	80.9	81.3
IV 7000	49.1	65.6	71.8	73.1	76.5	77.1	78.3	79.0	79.1	80.0	80.2	80.2	80.6	80.7	80.9	81.3
IV 6000	49.2	65.7	71.8	73.2	76.6	77.1	78.4	79.1	79.1	80.1	80.2	80.2	80.7	80.8	81.0	81.4
IV 5000	49.4	66.0	71.1	73.5	76.9	77.4	78.7	79.4	79.4	80.4	80.5	80.5	81.0	81.1	81.2	81.7
IV 4500	49.4	66.0	71.1	73.5	76.9	77.4	78.7	79.4	79.4	80.4	80.5	80.5	81.0	81.1	81.2	81.7
IV 4000	49.8	66.3	71.5	73.8	77.3	77.8	79.0	79.7	79.7	80.7	80.9	80.9	81.3	81.5	81.6	82.1
IV 3500	50.1	66.7	71.9	74.3	77.7	78.2	79.5	80.2	80.2	81.2	81.3	81.3	81.7	81.9	82.1	82.5
IV 3000	51.4	68.2	73.5	75.8	79.2	79.7	81.0	81.7	81.7	82.7	82.9	82.9	83.3	83.5	83.6	84.0
IV 2500	52.4	68.4	74.8	77.1	80.6	81.1	82.4	83.1	83.1	84.1	84.2	84.2	84.7	84.8	85.0	85.4
IV 2000	53.1	71.1	76.8	79.1	82.6	83.1	84.5	85.2	85.2	86.2	86.3	86.3	86.7	86.9	87.0	87.5
IV 1800	53.4	71.5	77.2	79.5	83.4	83.6	85.0	85.7	85.7	86.7	86.8	86.8	87.2	87.4	87.5	88.0
IV 1500	54.6	74.2	80.2	82.6	86.4	87.1	88.5	89.2	89.2	90.2	90.4	90.4	90.9	91.1	91.2	91.7
IV 1200	54.9	75.0	81.2	83.5	87.5	88.2	89.6	90.4	90.4	91.5	91.7	91.7	92.2	92.3	92.5	92.9
IV 1000	55.4	75.6	82.3	84.7	89.0	89.7	91.2	92.1	92.1	93.2	93.4	93.4	93.9	94.0	94.2	94.7
IV 900	55.6	76.0	82.5	84.9	89.2	89.9	91.4	92.2	92.2	93.4	93.6	93.6	94.0	94.2	94.4	94.8
IV 800	55.6	76.3	83.0	85.4	89.7	90.4	91.9	92.9	92.9	94.3	94.5	94.5	94.9	95.1	95.3	95.7
IV 700	55.6	76.3	83.0	85.4	89.7	90.4	91.9	92.9	92.9	94.4	94.6	94.6	95.0	95.2	95.4	95.8
IV 600	55.7	76.3	83.0	85.5	89.7	90.5	92.1	93.2	93.2	94.7	94.9	94.9	95.4	95.5	95.7	96.2
IV 500	55.7	76.4	83.2	85.7	90.2	90.9	92.7	94.2	94.2	95.8	96.0	96.0	96.5	96.7	96.9	97.3
IV 400	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.3	94.3	95.9	96.2	96.2	96.7	96.8	97.0	97.4
IV 300	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.3	94.3	96.0	96.2	96.2	96.8	96.9	97.3	97.7
IV 200	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.4	94.4	96.2	96.4	96.4	97.1	97.2	97.7	98.3
IV 100	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.4	94.4	96.2	96.4	96.4	97.2	97.4	98.0	99.0
IV 0	55.7	76.5	83.3	85.8	90.2	91.0	92.7	94.4	94.4	96.2	96.4	96.4	97.2	97.4	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 1402

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

IMPERIAL BEACH, CALIFORNIA

73-82

ALL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	34.2	52.2	56.2	58.4	60.2	60.7	61.4	61.9	61.8	62.0	62.1	62.1	62.2	62.3	62.3	62.4
≥ 20000	35.6	54.6	59.1	61.5	63.2	63.7	64.5	64.9	64.9	65.2	65.3	65.3	65.4	65.4	65.5	65.6
IV 18000	36.6	54.9	59.2	61.4	63.3	63.8	64.6	65.1	65.2	65.3	65.4	65.4	65.5	65.5	65.6	65.6
IV 16000	36.6	54.9	59.2	61.4	63.3	63.8	64.7	65.2	65.3	65.3	65.4	65.4	65.5	65.6	65.6	65.7
IV 14000	36.8	55.3	59.6	61.9	63.8	64.3	65.2	65.5	65.5	65.8	65.9	65.9	66.1	66.1	66.1	66.2
IV 12000	37.2	55.9	60.3	62.6	64.6	65.1	66.0	66.4	66.4	66.7	66.9	66.8	66.9	66.9	67.0	67.0
IV 10000	37.6	56.7	61.2	63.5	65.5	66.0	66.9	67.3	67.3	67.6	67.7	67.7	67.8	67.8	67.9	67.9
IV 9000	37.7	56.7	61.2	63.5	65.5	66.0	66.9	67.3	67.3	67.6	67.7	67.7	67.8	67.8	67.9	68.0
IV 8000	38.2	57.4	61.9	64.3	66.3	66.8	67.7	68.1	68.1	68.4	68.5	68.5	68.6	68.6	68.7	68.7
IV 7000	38.3	57.7	62.2	64.5	66.5	67.0	67.9	68.3	68.3	68.6	68.7	68.7	68.8	68.8	68.9	69.0
IV 6000	38.4	57.8	62.4	64.7	66.7	67.2	68.1	68.5	68.5	68.8	68.9	68.9	69.1	69.1	69.1	69.2
IV 5000	38.5	58.3	62.8	65.1	67.1	67.7	68.6	69.0	69.0	69.3	69.4	69.4	69.5	69.5	69.6	69.6
IV 4500	38.9	58.4	63.0	65.3	67.3	67.9	68.7	69.1	69.2	69.5	69.6	69.6	69.7	69.7	69.8	69.8
IV 4000	39.5	58.1	63.7	66.0	68.1	68.6	69.5	69.9	69.9	70.2	70.3	70.3	70.4	70.4	70.5	70.6
IV 3500	40.3	60.0	64.6	66.9	69.3	69.5	70.4	70.8	70.8	71.1	71.2	71.2	71.3	71.3	71.4	71.5
IV 3000	41.5	61.6	66.2	68.9	70.6	71.1	72.0	72.4	72.4	72.7	72.8	72.8	73.0	73.0	73.0	73.1
IV 2500	43.3	64.1	68.8	71.2	73.3	73.8	74.7	75.1	75.1	75.4	75.5	75.5	75.6	75.6	75.7	75.8
IV 2000	45.3	67.0	71.8	74.2	76.3	76.8	77.7	78.2	78.2	78.5	78.6	78.6	78.7	78.7	78.8	78.9
IV 1800	45.6	67.5	72.3	74.7	76.9	77.4	78.3	78.7	78.7	79.0	79.1	79.1	79.3	79.3	79.3	79.4
IV 1500	47.6	71.4	76.7	79.3	81.6	82.2	83.1	83.6	83.6	83.9	84.1	84.1	84.1	84.2	84.2	84.3
IV 1200	48.3	73.6	79.3	82.2	84.6	85.3	86.3	86.7	86.7	87.1	87.2	87.2	87.3	87.4	87.4	87.5
IV 1000	48.9	75.0	82.6	86.0	89.0	89.8	90.9	91.4	91.4	91.8	92.0	92.0	92.1	92.1	92.2	92.2
IV 900	49.1	76.3	83.1	86.5	89.6	90.5	91.7	92.2	92.2	92.6	92.7	92.7	92.7	92.9	92.9	93.0
IV 800	49.1	76.7	83.7	87.4	90.9	92.0	93.4	94.1	94.1	94.5	94.7	94.7	94.8	94.8	94.9	95.0
IV 700	49.1	76.9	84.1	87.9	91.6	92.8	94.4	95.1	95.1	95.6	95.7	95.7	95.9	95.9	96.0	96.0
IV 600	49.1	76.9	84.2	88.1	92.0	93.3	95.0	95.8	95.8	96.4	96.5	96.5	96.7	96.7	96.8	96.8
IV 500	49.1	77.0	84.3	88.3	92.4	93.8	95.7	96.7	96.7	97.3	97.5	97.5	97.7	97.7	97.8	97.9
IV 400	49.1	77.1	84.4	88.5	92.6	94.0	96.0	97.1	97.1	97.8	98.0	98.0	98.2	98.2	98.3	98.4
IV 300	49.1	77.1	84.4	88.5	92.6	94.1	96.1	97.3	97.4	98.1	98.4	98.4	98.7	98.7	98.9	99.0
IV 200	49.1	77.1	84.4	88.5	92.7	94.1	96.1	97.4	97.4	98.2	98.6	98.6	99.0	99.1	99.3	99.4
IV 100	49.1	77.1	84.4	88.5	92.7	94.1	96.1	97.4	97.5	98.3	98.6	98.6	99.1	99.2	99.5	99.7
IV 0	49.1	77.1	84.4	88.5	92.7	94.1	96.1	97.4	97.5	98.3	98.6	98.6	99.1	99.2	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS

17419

DIRNAVOCEANMET SMOS

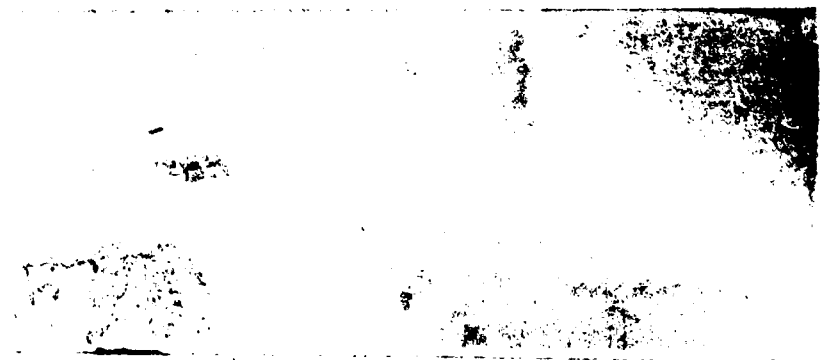
SKY COVER

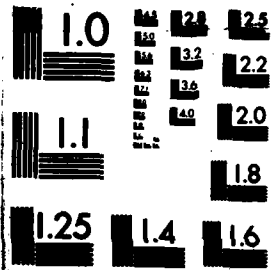
STATION 4115 IMPERIAL BEACH, CALIFORNIA PERIOD 73-80 MONTH 1981
STATION NAME PERIOD MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.		
		0	1	2	3	4	5	6	7	8	9			10	
	01														
	02														
	07	24.6			20.7							15.2	35.5	5.9	276
	11	30.6			29.9							15.3	24.2	4.7	291
	13	33.4			35.6							15.7	14.9	4.0	291
	16	38.9			32.7							17.1	11.4	5.7	245
	17	42.0			25.2							16.8	15.9	3.9	228
	22	24.6			24.8							12.1	36.3	5.7	141
TOTALS		32.4			28.2							15.4	24.0	4.7	1457

NAVWEASERVCOM





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

5010-108-01

SKY COVER

93115 IMPERIAL BEACH, CALIFORNIA

73-82

ALL

STATION

STATION NAME

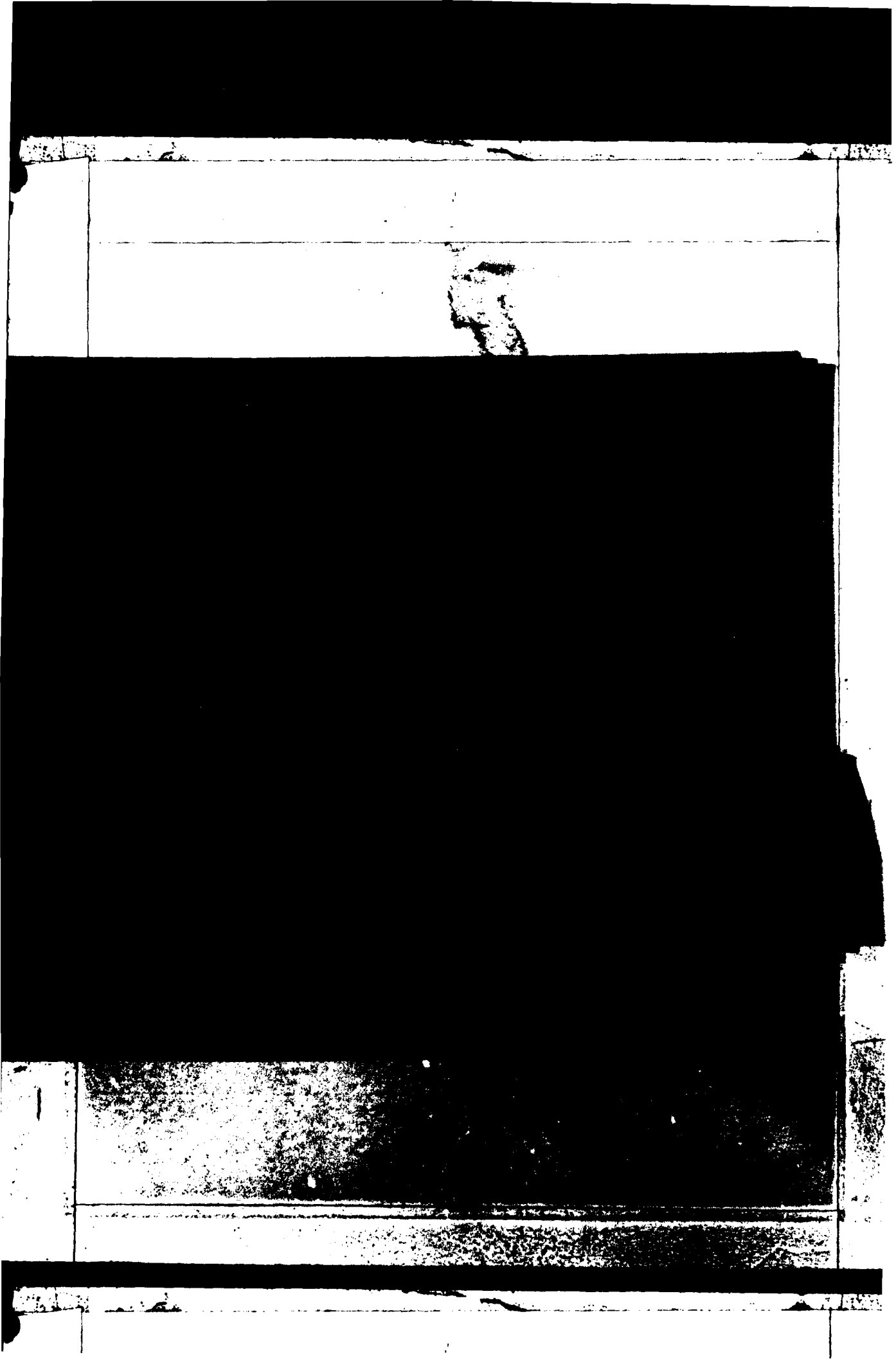
PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	25.9			23.7						28.5	21.9	5.5	1465
FEB		37.2			29.4						18.4	20.0	4.4	1332
MAR		27.1			25.4						25.1	22.5	5.3	1521
APR		24.2			39.8						16.1	15.9	5.3	1491
MAY		15.0			16.1						15.4	53.6	7.2	1446
JUN		23.3			26.3						16.9	33.6	5.7	1491
JUL		21.6			24.4						14.1	38.0	5.9	1468
AUG		19.1			23.8						12.1	44.9	6.3	1522
SEP		26.6			32.8						12.3	28.4	4.9	1422
OCT		32.4			28.2						15.4	24.0	4.7	1450
NOV		44.6			26.1						12.7	16.7	3.6	1409
DEC		46.3			19.1						13.1	21.6	3.9	1402
TOTALS		28.9			24.0						18.7	28.4	5.1	17419

NAVWEASERVCOM



NOCD, Federal Building
Asheville, N. C.

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables 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 available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
 - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. 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 (σ_x). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six 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 1946. 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 and again 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 10% classes, plus the mean relative humidity and total number of observations in two tables.

- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 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 years are also combined for this summary.

6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9599-9799

JANUARY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	53.3	11.8	62.2	16.8	76	24.4	1981	44.4	6.9	35	1.7	1976
2	52.7	11.5	62.0	16.7	76	24.4	1980	43.4	6.3	32	.0	1976
3	52.7	11.5	62.5	16.9	72	22.2	1956	42.9	6.1	34	1.1	1976*
4	53.1	11.7	62.6	17.0	76	24.4	1969	43.5	6.4	30	-1.1	1971
5	53.8	12.1	63.6	17.6	70	25.5	1969	44.0	6.7	29	-1.7	1971
6	54.3	12.4	63.9	17.7	75	23.9	1958	44.7	7.1	35	1.7	1971
7	54.6	12.6	64.4	18.0	80	27.8	1962	44.8	7.1	26	-3.3	1971
8	53.5	12.2	63.1	17.3	74	23.3	1978	44.8	7.1	31	-.6	1971
9	54.4	12.4	63.2	17.3	72	22.2	1962*	45.7	7.6	35	1.7	1946
10	54.1	12.8	63.6	17.6	74	23.3	1981	46.2	7.9	37	2.8	1946
11	54.5	12.5	63.0	17.2	75	23.9	1981	46.0	7.8	36	2.2	1972
12	54.7	12.7	63.2	17.3	74	23.3	1968	46.4	8.0	37	2.8	1972
13	55.4	13.0	65.0	18.3	81	27.2	1969	45.9	7.7	27	-2.8	1963
14	55.7	13.3	65.4	18.6	81	27.2	1975	46.3	7.9	34	1.1	1963
15	54.5	12.7	64.5	18.1	70	26.1	1976	45.1	7.3	27	-2.8	1947
16	54.7	13.2	65.4	18.6	86	30.0	1976	46.0	7.8	34	1.1	1947
17	55.1	13.3	65.7	18.7	83	28.3	1977	46.5	8.1	36	2.2	1947
18	55.4	13.0	64.8	18.2	7	25.6	1977*	46.3	7.9	39	3.3	1963*
19	55.2	12.9	63.7	17.6	81	27.2	1961	46.7	8.2	39	3.9	1949
20	54.7	12.6	63.3	17.8	79	26.1	1976	46.0	7.8	35	1.7	1949
21	54.7	12.7	63.0	17.2	82	27.8	1976	46.7	8.2	36	2.2	1949
22	54.0	12.2	62.6	17.0	77	25.7	1976	45.4	7.4	35	1.7	1949
23	54.0	12.2	62.6	17.0	91	26.7	1968	45.5	7.5	37	2.8	1947
24	54.0	12.2	62.4	16.9	77	25.7	1968	45.6	7.6	39	3.9	1947
25	54.3	12.4	61.7	16.5	72	22.2	1977	47.0	8.3	37	2.8	1966
26	54.7	12.7	62.1	16.7	70	21.1	1977	47.4	8.6	39	3.9	1976*
27	55.1	12.8	63.4	17.8	76	24.4	1971	46.8	8.2	39	3.9	1979*
28	54.8	12.7	63.6	17.6	81	27.2	1976	45.6	7.6	29	-1.7	1949
29	54.1	12.7	63.8	17.7	70	25.6	1971*	45.7	7.6	35	1.7	1979
30	54.0	12.2	62.7	17.1	70	26.1	1971	45.3	7.4	34	1.1	1946
31	53.6	12.0	62.9	17.2	70	25.6	1962	44.3	6.8	28	-2.2	1946
Monthly	54.5	12.5	63.4	17.4	86	30.0	1976	45.5	7.5	26	-3.3	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9999-9999

FEBRUARY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	50.0	12.0	63.3	17.0	77	26.1	1958	46.8	8.2	35	1.7	1946
2	50.2	12.9	63.5	17.5	76	24.4	1963	46.8	8.2	35	1.7	1946
3	50.3	13.3	65.6	18.7	83	28.7	1963	46.4	8.0	36	2.2	1956
4	50.3	13.2	65.0	18.3	81	26.7	1978	46.7	8.2	35	1.7	1956
5	50.0	12.8	63.1	17.3	76	24.4	1977	46.8	8.2	36	2.2	1946
6	50.0	12.8	62.8	17.1	73	21.1	1977*	47.2	8.4	32	.0	1946
7	49.2	12.3	61.9	16.6	73	21.1	1970	46.6	8.1	37	2.8	1974
8	50.2	12.9	62.6	17.0	74	23.7	1967	47.8	8.8	40	4.4	1964*
9	50.0	13.3	63.7	17.6	73	22.8	1980*	48.3	9.1	35	1.7	1956
10	50.4	13.0	64.2	17.9	76	24.4	1971	46.6	8.1	35	1.7	1956*
11	50.2	13.4	64.4	18.0	73	25.6	1977*	47.9	8.8	36	2.2	1956
12	50.2	13.4	64.8	18.2	76	25.6	1977*	47.6	8.7	37	2.8	1956*
13	50.9	13.3	64.0	17.8	81	27.2	1977	47.9	8.8	37	2.8	1946
14	50.4	13.0	63.4	17.4	76	24.4	1981	47.4	8.6	35	1.7	1946
15	50.7	13.2	63.9	17.7	79	26.1	1981	47.8	8.6	36	2.2	1977
16	50.4	13.0	63.1	17.3	77	25.0	1977	47.8	8.8	38	3.3	1974*
17	50.1	12.8	63.2	17.3	79	26.1	1981	47.1	8.4	36	2.2	1956
18	50.3	12.9	63.6	17.6	77	25.0	1981	47.0	8.3	39	3.9	1946
19	50.7	13.2	64.4	18.0	81	27.2	1982	47.1	8.4	40	4.4	1956
20	50.2	12.9	63.2	17.3	74	23.3	1964	47.2	8.4	38	3.3	1956
21	50.0	13.3	64.5	18.1	81	26.7	1981	47.5	8.6	38	3.3	1971
22	50.0	13.3	64.1	17.8	81	26.7	1976	48.0	8.9	33	.6	1975
23	50.2	13.4	65.4	18.6	76	24.4	1976	46.9	8.3	41	5.0	1975*
24	50.4	13.6	64.8	18.2	81	26.7	1974	48.0	8.9	38	3.3	1960
25	50.7	13.2	63.8	17.7	82	27.9	1974	47.6	8.7	39	3.9	1977
26	50.1	12.8	62.7	17.1	80	26.7	1980	47.5	8.6	40	4.4	1977
27	49.6	12.6	63.0	17.2	73	22.8	1980*	46.1	7.8	38	3.3	1971
28	50.1	13.4	64.0	17.8	74	23.6	1967	48.2	9.0	39	3.9	1962
29	50.0	13.3	62.1	16.7	67	19.4	1980	49.9	9.9	42	5.6	1956
30												
31												
Monthly	50.5	13.1	63.8	17.7	83	28.7	1963	47.3	8.5	32	.0	1946

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1946-1947 1949-1949 9999-9999

MARCH

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	56.2	13.4	63.1	17.3	77	25.0	1967	49.3	9.6	39	3.9	1956
2	55.1	12.8	62.2	16.8	68	20.0	1980	47.9	8.8	33	.6	1971
3	54.9	12.7	62.7	17.1	77	25.0	1968	47.2	8.4	35	1.7	1971
4	55.4	13.0	63.5	17.5	77	26.1	1968	47.2	8.4	35	1.7	1966
5	55.6	13.1	63.8	17.7	77	25.6	1959	47.4	8.6	40	4.4	1958
6	55.4	13.2	63.8	17.7	8	26.7	1979	47.7	8.7	40	4.4	1976
7	55.4	13.0	63.9	17.7	83	28.7	1979	46.9	8.3	36	2.2	1956
8	55.3	12.9	63.0	17.2	77	25.0	1946	47.6	8.7	35	3.3	1956
9	55.2	12.9	62.4	16.9	72	22.7	1946	48.0	8.9	38	3.3	1956
10	55.0	12.8	61.7	16.5	66	18.9	1981*	48.2	9.0	39	3.9	1956
11	55.3	12.9	62.9	17.2	84	28.9	1959	47.7	8.7	40	4.4	1977
12	55.7	13.2	63.4	17.4	7	25.6	1959	48.0	8.9	40	4.4	1977
13	56.2	13.3	63.5	17.5	73	25.6	1947	48.5	9.2	35	3.3	1956
14	55.3	12.9	63.5	17.5	75	23.9	1947	47.1	8.4	37	2.8	1962
15	54.9	12.7	62.9	17.2	75	23.9	1978	46.8	8.2	39	3.9	1962*
16	57.1	13.9	65.3	18.5	87	30.6	1978	48.9	9.4	41	5.0	1962*
17	57.0	13.9	64.8	18.2	93	33.0	1978	49.2	9.6	44	6.7	1971*
18	56.2	13.4	63.1	17.3	77	25.0	1960	49.3	9.6	4	4.4	1956
19	57.1	13.9	63.9	17.7	81	27.2	1960	50.3	10.2	42	5.6	1963
20	56.4	13.6	63.6	17.7	75	23.9	1959	49.0	9.4	43	6.1	1977*
21	57.1	13.9	64.3	17.9	7	25.6	1976	50.0	10.0	44	6.7	1966
22	57.0	13.9	63.9	17.7	79	26.1	1976	50.1	10.1	40	4.4	1957
23	56.8	13.8	63.6	17.6	74	25.6	1966	50.0	10.0	37	2.8	1957
24	57.1	13.9	64.2	17.9	71	21.7	1978*	49.9	9.9	41	5.0	1962
25	57.2	14.0	64.3	17.9	82	27.8	1947	50.0	10.0	41	5.0	1977
26	56.7	13.8	64.2	17.9	75	23.9	1969	49.6	9.8	40	4.4	1977
27	57.5	14.2	64.0	17.8	75	23.9	1969	51.0	10.6	42	5.6	1975
28	57.3	14.0	63.8	17.7	69	20.6	1978	50.6	10.3	47	8.3	1972*
29	56.6	13.7	64.2	17.9	75	23.9	1980	49.0	9.4	40	4.4	1975
30	56.7	13.7	63.7	17.6	72	22.2	1979	49.7	9.8	41	5.0	1967
31	57.3	14.1	64.0	17.8	72	22.2	1976	50.7	10.4	41	5.0	1977
Monthly	56.2	13.4	63.6	17.6	93	33.9	1978	48.8	9.3	33	.6	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

APRIL

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	57.2	14.0	63.8	17.7	77	26.1	1959	50.5	10.3	43	6.1	1945
2	57.4	14.1	64.5	18.1	82	27.8	1960	50.2	10.1	41	5.0	1976
3	56.7	13.8	64.5	18.1	81	27.2	1960	49.2	9.6	36	2.2	1945
4	57.7	14.3	66.2	19.0	77	26.1	1971	49.2	9.6	34	1.1	1945
5	57.5	14.7	67.0	19.4	77	25.6	1981*	50.0	10.0	40	4.4	1945
6	57.7	14.4	64.5	18.1	72	22.2	1945	51.2	10.7	40	4.4	1945
7	57.6	14.2	64.7	18.2	74	24.4	1962*	50.5	10.3	43	6.1	1945
8	58.1	14.5	65.7	18.7	77	26.1	1980	50.5	10.3	39	3.9	1948
9	58.6	14.8	65.6	18.7	83	31.1	1963	51.7	10.9	45	7.2	1967*
10	58.5	14.7	65.4	18.6	77	25.6	1968	51.6	10.9	44	6.7	1945
11	58.4	14.7	65.6	18.7	77	26.1	1946	51.2	10.7	43	6.1	1945
12	58.9	14.9	66.3	19.1	90	32.2	1947	51.5	10.6	41	5.0	1948
13	58.7	14.8	66.2	19.0	89	31.7	1947	51.3	10.7	40	4.4	1948
14	54.1	15.1	67.1	19.5	83	28.3	1964	51.1	10.6	39	3.9	1945
15	59.7	15.4	67.4	19.7	83	29.3	1958	52.0	11.1	41	5.0	1945
16	58.8	14.9	64.8	18.2	82	27.8	1948	52.8	11.6	42	5.6	1945
17	58.8	14.9	64.8	18.2	72	22.2	1948	52.8	11.6	42	5.6	1976
18	58.4	14.7	64.2	17.9	69	20.6	1969	52.6	11.4	42	5.6	1976
19	58.4	14.7	65.2	19.4	74	23.3	1965	51.7	10.9	41	5.0	1945
20	58.6	14.8	65.3	18.5	74	23.3	1958	51.9	11.1	44	6.7	1966
21	58.2	14.6	64.7	18.2	75	23.9	1958	51.8	11.0	42	5.6	1977
22	56.6	14.8	65.0	18.3	72	22.2	1977	52.2	11.2	44	6.7	1963
23	58.9	14.9	65.5	18.6	71	21.7	1968	52.3	11.3	45	7.2	1967
24	58.8	14.9	65.7	18.7	72	22.2	1978*	51.9	11.1	46	7.8	1963*
25	58.9	14.9	65.6	18.7	71	21.7	1978	52.2	11.2	45	7.2	1948
26	59.1	15.1	65.2	18.4	77	21.1	1969	53.0	11.7	46	7.8	1967
27	59.5	15.3	65.7	18.7	74	23.3	1969	53.3	11.8	41	5.0	1971
28	59.9	15.5	66.5	19.2	74	23.3	1980*	53.4	11.9	44	6.7	1971
29	59.8	15.4	65.9	18.8	74	23.3	1981	53.8	12.1	45	7.2	1970
30	59.9	15.5	66.1	18.9	71	21.7	1974*	53.6	12.0	42	5.6	1948
31												
Monthly	58.6	14.8	65.5	18.6	90	32.2	1947	51.7	10.9	34	1.1	1945

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

MAY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	60.7	15.9	66.8	19.3	75	23.9	1980	54.6	12.6	44	6.7	1967
2	60.6	15.9	67.0	19.4	77	25.0	1980*	54.3	12.4	46	7.8	1967
3	60.9	16.1	66.7	19.3	78	25.6	1970	55.2	12.9	47	8.3	1943
4	60.7	15.9	66.2	19.0	71	21.7	1958	55.1	12.8	50	10.0	1948
5	60.7	15.9	66.0	18.9	75	23.9	1978	55.4	13.0	49	9.4	1959
6	60.8	16.1	66.7	19.3	72	22.2	1978*	55.1	12.8	44	6.7	1967
7	61.0	16.1	67.1	19.5	73	22.8	1978	54.9	12.7	48	8.9	1968*
8	61.7	16.5	67.7	19.8	83	28.3	1978	55.7	13.2	47	9.4	1979*
9	61.5	16.4	67.5	19.7	78	25.6	1978	55.5	13.1	47	8.3	1964
10	61.3	16.3	66.7	19.3	74	23.3	1981	55.9	13.3	48	8.9	1979
11	61.0	16.1	66.7	19.3	75	23.9	1979*	55.3	12.9	50	10.0	1948
12	60.9	16.1	66.8	19.3	81	27.2	1979	55.0	12.8	46	7.8	1967
13	61.4	16.3	67.9	19.9	91	32.8	1979	54.8	12.7	46	7.8	1956
14	61.7	16.5	67.6	19.8	82	27.8	1956	55.8	13.2	49	9.4	1967
15	62.2	16.8	68.2	20.1	86	30.0	1956	56.1	13.4	47	8.3	1968
16	61.7	16.6	68.5	20.3	92	33.3	1967	55.4	13.0	50	10.0	1968*
17	61.7	16.5	68.2	20.1	88	31.1	1956	55.2	12.9	46	7.8	1971
18	62.3	16.7	67.6	19.8	83	28.3	1978	56.3	13.5	47	8.3	1971
19	61.9	16.6	67.4	19.7	80	26.7	1978	56.4	13.6	52	11.1	1977*
20	61.5	16.4	66.9	19.4	75	23.9	1980	56.0	13.3	50	10.0	1948
21	61.7	16.5	67.1	19.5	73	22.8	1979	56.2	13.4	46	7.8	1948
22	61.9	16.6	67.1	19.5	83	28.3	1958	56.6	13.7	49	9.4	1971*
23	61.7	16.5	66.6	19.2	74	23.3	1979	56.9	13.8	53	11.7	1976*
24	61.8	16.6	66.7	19.3	72	22.2	1981*	56.9	13.8	50	10.0	1978
25	61.9	16.6	67.2	19.6	74	23.3	1980	56.7	13.7	49	9.4	1980
26	62.3	16.8	67.5	19.7	75	23.9	1981	57.1	13.9	52	11.1	1980
27	62.5	16.9	67.7	19.8	73	22.8	1981*	57.3	14.1	51	10.6	1971*
28	62.2	16.8	67.9	19.9	79	26.1	1980	56.6	13.7	48	8.9	1971
29	62.2	16.8	67.2	19.6	73	22.8	1980	57.2	14.0	48	8.9	1971
30	62.7	17.1	67.6	19.8	77	25.0	1978	57.7	14.3	52	11.1	1961
31	62.8	17.1	67.3	19.6	75	23.9	1978	58.3	14.6	52	11.1	1957
Monthly	61.6	16.4	67.2	19.6	92	33.3	1967	56.0	13.3	44	6.7	1967

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

JUNE

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C		
1	62.8	17.1	67.7	19.8	74	23.3	57.9	14.4	46	7.8	1971	
2	62.6	17.0	67.6	19.8	72	22.2	57.6	14.2	47	6.3	1971	
3	63.1	17.3	67.7	19.8	73	22.5	58.5	14.7	51	10.6	1967	
4	63.2	17.3	67.9	19.9	77	25.0	58.5	14.7	52	11.1	1967	
5	63.4	17.4	68.4	20.2	79	26.1	58.3	14.6	49	9.4	1971	
6	63.4	17.4	67.7	19.8	76	24.4	59.0	15.0	54	12.2	1971	
7	63.4	17.4	68.1	20.1	76	24.4	58.6	14.8	53	11.7	1980	
8	63.1	17.3	67.8	19.9	77	25.0	58.4	14.7	54	12.2	1980	
9	63.1	17.3	67.9	19.9	83	28.3	58.4	14.7	51	10.6	1948	
10	63.9	17.7	68.7	20.4	91	32.8	59.1	15.1	51	10.6	1964	
11	63.8	17.7	68.7	20.4	85	29.4	58.9	14.9	53	11.7	1964	
12	64.3	17.9	69.2	20.7	80	26.7	59.3	15.2	56	13.3	1980*	
13	64.5	18.1	69.6	20.9	84	28.9	59.3	15.2	56	13.3	1980*	
14	63.9	17.7	69.2	20.7	82	27.8	58.8	14.9	53	11.7	1970	
15	64.3	17.9	69.7	20.9	92	33.3	58.8	14.9	52	11.1	1971	
16	64.0	17.8	69.3	20.7	94	34.4	59.1	15.1	54	12.2	1971*	
17	64.2	17.9	69.9	21.1	85	29.4	58.8	14.9	54	12.2	1979*	
18	64.7	18.2	69.6	20.9	89	31.7	59.8	15.4	51	10.6	1979	
19	64.7	18.2	69.6	20.9	82	27.8	59.7	15.4	56	13.3	1979*	
20	64.2	17.9	69.2	20.7	80	26.7	59.2	15.1	54	12.2	1948	
21	64.7	18.2	69.7	20.9	80	26.7	59.7	15.4	55	12.8	1971	
22	65.1	18.4	70.0	21.1	86	30.0	60.4	15.8	56	13.3	1971	
23	65.4	18.6	70.7	21.5	86	30.0	60.1	15.6	54	12.2	1971	
24	65.2	18.4	70.1	21.2	88	31.1	60.3	15.7	53	11.7	1963	
25	64.9	18.3	69.9	21.1	80	26.7	59.9	15.5	54	12.2	1975	
26	65.1	18.4	70.2	21.2	87	30.6	60.0	15.6	54	12.2	1963	
27	65.1	18.4	70.3	21.3	77	25.0	59.8	15.4	51	10.6	1965	
28	65.1	18.4	70.7	21.5	90	32.2	59.6	15.3	55	12.8	1965	
29	65.1	18.4	70.6	21.4	84	28.9	59.7	15.4	55	12.8	1963	
30	64.7	18.2	70.9	21.3	74	25.6	59.1	15.1	54	12.2	1964	
31												
Monthly	64.2	17.9	69.2	20.7	94	34.4	59.2	15.1	46	7.8	1971	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

JULY

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	65.2	18.4	70.3	21.3	81	27.2	1980	60.1	15.6	53	11.7	1968
2	65.7	18.7	70.8	21.6	77	25.2	1957	60.7	15.9	55	12.8	1964
3	65.6	18.7	70.6	21.4	78	25.6	1981	60.6	15.9	56	13.3	1971
4	65.8	18.8	70.7	21.5	79	26.1	1957	60.9	16.1	54	12.2	1977
5	65.6	18.7	70.7	21.5	82	27.8	1980	60.6	15.9	53	11.7	1968
6	66.0	18.9	70.9	21.6	76	24.4	1981	61.1	16.2	54	12.2	1968
7	66.3	19.1	71.4	21.9	81	26.7	1980	61.2	16.2	52	11.1	1948
8	66.6	19.2	72.0	22.2	83	28.1	1980	61.1	16.2	56	13.3	1979*
9	66.4	19.1	72.1	22.3	85	29.4	1980	60.6	15.9	52	11.1	1948
10	66.7	19.3	72.2	22.3	85	29.4	1980	61.2	16.2	55	12.8	1947
11	66.6	19.3	72.2	22.3	89	31.7	1980	61.3	16.3	55	12.8	1979
12	66.4	19.1	71.2	21.8	77	25.0	1968	61.6	16.4	55	12.8	1971
13	66.7	19.3	71.4	21.9	78	25.6	1980	61.9	16.6	56	13.3	1971
14	66.7	19.3	71.7	22.1	81	26.7	1980	61.8	16.6	57	13.9	1979*
15	67.3	19.6	72.3	22.4	89	31.7	1980	62.3	16.8	57	13.9	1971
16	66.7	19.4	71.6	22.0	89	31.7	1980	62.2	16.8	54	12.2	1971
17	67.0	19.4	71.8	22.1	82	27.8	1974	62.3	16.8	55	12.8	1969
18	67.2	19.6	72.1	22.3	79	26.1	1974	62.3	16.8	57	13.9	1969
19	67.4	19.9	72.4	22.4	85	29.4	1974	63.4	17.4	57	13.9	1947
20	67.7	19.8	72.7	22.6	85	29.4	1974	62.6	17.0	55	12.8	1973
21	67.7	19.8	72.2	22.3	83	28.1	1974	63.2	17.3	57	13.9	1973
22	67.6	19.8	72.1	22.3	79	26.1	1974	63.1	17.3	59	15.0	1971
23	68.1	20.1	72.6	22.6	83	28.3	1974	63.6	17.6	59	15.0	1973*
24	68.1	20.1	72.5	22.5	82	27.8	1974	63.6	17.6	58	14.4	1973
25	68.3	20.2	72.9	22.7	83	28.3	1974	63.6	17.6	58	14.4	1973
26	68.8	20.4	73.5	23.1	81	27.2	1974	64.1	17.8	58	14.4	1977*
27	69.2	20.7	74.2	23.4	81	27.2	1980*	64.1	17.8	57	13.9	1965
28	69.2	20.7	74.4	23.6	82	27.8	1980*	64.1	17.8	57	13.9	1979
29	69.6	20.9	74.5	23.6	90	32.2	1980	64.6	18.1	58	14.4	1971
30	69.9	21.1	75.4	24.1	96	35.6	1980	64.4	18.0	54	12.2	1948
31	69.6	20.9	74.9	23.8	86	30.1	1980	64.3	17.9	57	13.9	1978
Monthly	67.3	19.6	72.3	22.4	96	35.6	1980	62.3	16.8	52	11.1	1948

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

AUGUST

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C		
1	69.8	21.0	75.0	23.9	97	36.1	1987	64.6	18.1	59	15.0	1978
2	69.4	20.8	74.1	23.4	70	26.1	1980	64.6	18.1	58	14.4	1978
3	68.8	20.4	73.6	23.1	82	27.8	1980	64.1	17.8	58	14.4	1956
4	68.6	20.3	73.2	22.9	78	25.6	1980	64.0	17.8	56	13.3	1956
5	69.4	20.6	74.0	23.3	81	27.2	1980	64.0	17.8	58	14.4	1956
6	69.0	20.6	74.1	23.4	83	28.3	1980	63.9	17.7	58	14.4	1957
7	69.3	20.7	74.9	23.8	83	28.3	1980	63.8	17.7	58	14.4	1957
8	69.5	20.8	74.8	23.8	88	31.1	1980	64.1	17.8	56	13.3	1957
9	69.1	20.6	74.1	23.4	80	26.7	1968	64.1	17.8	58	14.4	1976
10	69.4	20.8	74.7	23.7	90	32.2	1980	64.2	17.9	58	14.4	1976
11	69.4	20.8	74.1	23.4	81	26.7	1980	64.7	18.2	59	15.0	1973
12	69.5	20.8	73.8	23.2	80	26.7	1980	65.2	18.4	60	15.6	1949
13	69.7	20.9	74.4	23.6	85	29.4	1965	65.1	18.4	60	15.6	1973
14	69.4	20.8	73.9	23.3	81	27.2	1980	64.9	18.3	60	15.6	1979
15	69.8	21.0	74.3	23.5	81	27.2	1970	65.3	18.5	60	15.6	1948
16	69.5	20.8	74.4	23.6	82	27.8	1970	64.6	18.1	59	15.0	1972
17	68.9	20.5	73.8	23.2	79	26.1	1970	64.0	17.8	58	14.4	1972
18	69.4	20.8	74.0	23.3	79	26.1	1968	64.7	18.2	55	12.8	1978
19	69.4	20.8	74.2	23.4	78	25.6	1966	64.6	18.1	55	12.8	1978
20	69.6	20.9	74.1	23.4	70	26.1	1973	65.0	18.3	60	15.6	1978
21	69.3	20.7	74.3	23.5	83	28.3	1982	64.3	17.9	58	14.4	1959
22	69.1	20.6	74.5	23.6	86	30.7	1972	63.7	17.6	57	13.9	1978
23	68.9	20.5	74.3	23.5	82	27.8	1968	63.5	17.5	55	12.8	1978
24	68.9	20.5	74.3	23.5	81	27.2	1968	63.6	17.6	53	11.7	1978
25	68.9	20.5	74.0	23.3	80	26.7	1968	63.7	17.6	55	12.8	1978
26	69.2	20.7	74.4	23.6	83	28.3	1957	64.1	17.8	55	12.8	1978
27	68.6	20.3	73.9	23.3	79	26.1	1981	63.4	17.4	56	14.4	1978
28	68.5	20.3	73.4	23.0	81	27.2	1988	63.7	17.6	58	14.4	1975
29	68.6	20.3	73.5	23.1	80	26.7	1987	63.8	17.7	58	14.4	1971
30	68.2	20.1	73.4	23.0	81	27.2	1972	63.0	17.2	56	13.3	1971
31	68.4	20.2	73.3	22.9	82	26.7	1987	63.6	17.6	58	14.4	1971
Monthly	69.1	20.6	74.1	23.4	97	36.1	1980	64.2	17.9	59	14.7	1978

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1982

SEPTEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	69.2	20.7	74.4	23.6	97	36.1	1967	64.0	17.8	58	14.4	1971
2	68.7	20.4	73.8	23.2	80	26.7	1982	63.6	17.6	57	13.9	1964
3	68.8	20.3	74.1	23.4	82	27.8	1982	63.1	17.3	54	12.2	1971
4	69.1	20.6	74.4	23.6	84	30.0	1961	63.8	17.7	52	11.1	1971
5	68.6	20.3	74.0	23.3	84	28.9	1961	63.4	17.4	56	13.3	1971
6	68.2	20.1	73.3	22.9	81	27.2	1974*	63.1	17.3	55	12.8	1970
7	68.5	20.3	73.6	23.1	91	32.4	1958	63.4	17.4	56	13.3	1973
8	68.0	20.0	73.9	23.3	80	26.7	1977*	62.2	16.8	55	12.8	1965
9	68.1	20.1	74.0	23.3	85	29.4	1956	62.3	16.8	54	12.2	1961
10	68.8	20.4	74.6	23.7	82	27.8	1960	63.0	17.2	56	13.3	1961
11	69.0	20.6	74.8	23.8	99	37.2	1959	63.1	17.3	56	13.3	1957
12	68.5	20.3	73.5	23.1	82	27.4	1963*	63.4	17.4	57	13.9	1957
13	67.7	19.8	72.5	22.5	80	26.7	1963	62.9	17.2	55	12.8	1972*
14	67.5	19.7	72.8	22.7	80	26.7	1979	62.2	16.8	52	11.1	1966
15	67.3	19.6	72.9	22.7	84	28.9	1979	61.8	16.6	55	12.8	1970*
16	68.1	20.1	73.7	23.2	95	38.0	1979	62.4	16.9	55	12.8	1970
17	67.7	19.8	72.8	22.7	84	28.9	1979	62.7	17.1	58	14.4	1977*
18	67.5	19.7	73.2	22.9	87	30.6	1979	61.7	16.8	54	12.2	1973
19	67.2	19.4	73.1	22.8	83	28.3	1979	60.9	16.1	52	11.1	1970
20	66.9	19.4	73.0	22.8	81	27.2	1978	60.8	16.0	52	11.1	1978*
21	67.1	19.5	72.8	22.7	82	27.8	1978	61.3	16.3	54	12.2	1965*
22	68.8	19.3	73.9	23.0	86	30.0	1978	60.3	15.7	55	12.8	1972*
23	68.0	20.0	75.2	24.0	107	41.7	1975	60.7	15.9	51	10.6	1970
24	68.1	20.1	74.7	23.7	103	39.4	1978	61.5	16.4	52	11.1	1970
25	67.8	19.9	74.6	23.7	93	33.9	1978	60.9	16.1	53	11.7	1945
26	67.6	19.8	74.6	23.7	108	42.2	1963	60.7	15.9	51	10.6	1965
27	69.2	20.1	74.2	23.4	100	37.8	1963	62.2	16.8	53	11.7	1971
28	67.7	19.8	74.1	23.4	92	33.3	1970	61.4	16.3	51	10.6	1971*
29	67.4	19.7	73.5	23.1	85	29.4	1945	61.3	16.3	52	11.1	1965
30	66.8	19.3	72.7	22.6	86	30.0	1945	61.0	16.1	55	12.8	1971
31												
Monthly	68.0	20.0	73.7	23.2	108	42.2	1963	62.2	16.8	51	10.6	1971*

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1956-1962

OCTOBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	DATE	
1	66.4	19.1	72.6	22.6	87	30.6	1965*	60.1	15.6	50	10.0	1971
2	66.6	19.2	73.3	22.9	92	33.3	1945	60.0	15.6	51	10.6	1971
3	65.4	18.6	71.7	22.1	74	25.6	1945	59.0	15.0	51	10.6	1971
4	65.4	18.6	71.9	22.2	80	26.7	1964	59.0	15.0	51	10.6	1973*
5	65.8	18.8	72.5	22.5	90	32.2	1960	59.2	15.1	53	11.7	1968*
6	66.3	19.1	72.9	22.5	87	31.7	1971	60.2	15.7	52	11.1	1967
7	65.5	18.8	72.5	22.5	85	29.4	1967	59.1	15.1	50	10.0	1957
8	64.8	18.2	71.9	22.2	82	27.8	1982*	57.6	14.2	45	7.2	1970
9	64.9	18.3	71.6	22.0	91	32.2	1982	58.1	14.5	50	10.0	1970
10	64.2	17.9	71.2	21.8	85	29.4	1971	57.2	14.0	49	9.4	1970
11	64.5	18.1	71.5	21.9	88	31.1	1982	57.6	14.2	49	9.4	1973*
12	63.8	17.7	70.2	21.2	81	27.2	1982	57.5	14.2	49	9.4	1973
13	64.1	17.8	71.1	21.7	81	27.2	1982	57.1	13.9	51	10.6	1973
14	65.6	18.7	73.0	22.8	105	40.6	1961	58.1	14.5	49	9.4	1961*
15	65.8	18.8	73.6	23.1	93	33.7	1961	57.9	14.0	49	9.4	1966
16	64.6	18.1	72.6	22.6	97	36.1	1958	56.6	13.7	49	9.4	1973
17	64.6	18.1	72.2	22.3	97	36.1	1958	56.9	13.8	48	8.9	1971
18	64.2	17.9	71.5	21.9	89	31.7	1958	56.8	13.8	48	8.9	1971
19	63.7	17.6	71.3	21.8	95	35.0	1964	56.1	13.4	48	8.9	1971
20	64.0	17.8	71.7	22.1	95	35.0	1964	56.3	13.5	48	8.9	1971
21	64.4	18.0	72.0	22.2	96	35.6	1965	56.7	13.7	49	9.4	1971
22	63.9	17.9	70.7	21.5	102	38.7	1965	56.0	13.3	48	8.9	1971
23	63.7	17.6	71.4	21.9	91	32.8	1965	56.0	13.3	49	9.4	1968
24	63.6	17.6	72.3	22.2	89	31.7	1965	55.0	12.8	46	8.9	1965
25	62.2	16.8	70.3	21.3	86	30.0	1966	54.0	12.2	46	7.8	1971*
26	62.1	16.7	69.3	20.8	79	26.1	1965	54.7	12.6	46	7.8	1970
27	61.9	16.6	69.4	20.8	80	26.7	1963	54.2	12.3	46	7.8	1971
28	62.7	17.1	70.1	21.2	85	29.4	1973	55.1	12.8	42	5.6	1970
29	61.0	16.1	69.3	20.7	80	26.7	1965	52.6	11.9	35	1.7	1971
30	61.7	16.5	71.0	21.7	85	29.4	1980	52.3	11.9	37	2.8	1971
31	61.2	16.2	70.2	21.2	88	31.1	1980	51.9	11.1	41	5.0	1972
Monthly	64.2	17.9	71.5	21.9	105	40.6	1961	56.8	13.8	35	1.7	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1955-1982

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C		
1	61.1	16.2	69.8	21.0	94	36.7	1966	52.3	11.3	39	3.9	1971
2	61.0	16.1	69.7	20.9	91	32.2	1966	52.3	11.3	45	7.2	1972*
3	60.6	15.9	68.9	20.5	90	32.2	1976	52.2	11.2	45	7.2	1972*
4	60.7	15.9	68.7	20.4	99	37.2	1976	52.6	11.4	41	5.0	1956
5	61.4	16.3	69.7	20.9	97	36.1	1976	53.0	11.7	42	5.6	1956
6	61.2	16.2	69.7	20.9	85	29.4	1976	52.7	11.5	43	6.1	1973
7	60.7	15.9	69.0	20.6	85	29.4	1956	52.4	11.3	40	4.4	1947
8	60.1	15.6	68.3	20.2	82	27.9	1956	51.8	11.0	43	6.1	1957
9	61.1	16.2	69.5	20.8	95	35.7	1956	52.6	11.4	42	5.6	1945
10	59.8	15.4	68.2	20.1	88	31.1	1956	51.8	11.0	42	5.6	1945
11	59.6	15.3	67.7	19.8	91	32.4	1976	51.7	10.9	42	5.6	1947
12	59.9	15.5	68.4	20.2	96	35.6	1976	51.5	10.8	43	6.1	1956
13	59.5	15.3	68.1	20.1	84	28.9	1975	51.0	10.6	40	4.4	1945
14	58.8	14.9	68.7	19.3	79	26.1	1970	51.0	10.6	42	5.6	1964
15	58.5	14.7	68.4	19.1	83	28.3	1970	50.7	10.4	36	2.2	1964
16	58.0	14.4	68.5	19.2	73	23.6	1976	49.5	9.7	36	2.2	1956
17	58.1	14.5	67.4	19.7	85	29.4	1976	48.9	9.4	41	5.0	1958
18	57.7	14.3	66.2	19.0	84	28.9	1976	49.1	9.5	41	5.0	1945
19	57.7	14.3	66.2	19.0	72	22.2	1969*	49.2	9.6	40	4.4	1964*
20	57.4	14.1	67.2	19.6	79	26.1	1969	47.7	8.7	38	3.3	1978*
21	58.0	14.4	67.5	19.7	79	26.1	1995	48.5	9.2	36	2.2	1956
22	56.7	13.7	65.8	18.8	76	24.4	1959	47.8	8.6	38	3.3	1945
23	56.9	13.8	66.5	19.2	75	23.9	1975	47.3	8.5	38	3.3	1947*
24	57.6	14.2	67.8	19.9	89	31.7	1976	47.4	8.6	38	3.3	1947
25	57.8	14.3	67.5	19.7	84	28.9	1977	48.1	8.9	41	5.0	1973*
26	58.3	14.6	67.4	19.7	85	29.4	1956	49.2	9.6	41	5.0	1955*
27	57.6	14.2	66.9	19.4	79	26.1	1980*	48.1	9.1	39	3.9	1945
28	57.6	14.2	67.6	19.8	89	26.7	1980*	47.5	8.6	35	1.7	1976
29	58.4	14.7	68.5	20.3	74	23.6	1977*	48.3	9.1	37	2.8	1957
30	58.1	14.6	67.8	19.7	79	26.1	1959	48.7	9.3	40	4.4	1975
31												
Monthly	59.0	15.0	67.8	19.9	99	37.7	1976	50.1	10.1	35	1.7	1976

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

IMPERIAL BEACH, CALIFORNIA

1945-1949 1955-1982

DECEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	57.2	14.0	66.5	19.2	87	26.7	1977*	48.0	8.9	39	3.9	1975*
2	57.8	14.3	67.4	19.7	83	26.3	1959	48.2	9.0	40	4.4	1945
3	56.6	13.7	66.2	19.0	83	26.3	1958	47.0	8.3	38	3.3	1956
4	56.4	13.6	64.9	18.3	87	26.7	1979	48.0	8.9	37	2.8	1973
5	57.1	13.9	65.5	18.6	81	27.2	1965	48.7	9.3	41	5.0	1973
6	56.1	13.4	64.8	18.2	84	28.9	1979	47.4	8.6	38	3.3	1968*
7	55.2	12.9	64.4	18.0	73	22.8	1959	46.0	7.8	32	.0	1978
8	55.1	12.8	64.3	17.9	75	23.9	1974*	45.9	7.7	30	-1.1	1978
9	49.6	12.6	63.2	17.3	80	26.7	1957	46.0	7.8	31	-.6	1956
10	55.0	12.9	63.8	17.7	77	25.0	1958	46.2	7.9	40	4.4	1978
11	55.5	13.1	64.5	18.1	79	26.1	1958	46.5	8.1	37	2.8	1947
12	54.8	12.7	64.6	18.1	78	25.6	1976	45.0	7.2	36	2.2	1947
13	54.4	12.6	64.3	17.9	79	26.1	1978	44.6	7.0	36	2.2	1947
14	53.9	12.2	64.1	17.8	79	26.1	1958	43.6	6.4	33	.6	1945
15	55.3	12.9	65.5	18.6	84	28.9	1958	45.1	7.3	39	3.9	1975*
16	55.4	13.0	65.4	18.6	81	27.2	1976	45.4	7.4	36	2.2	1975
17	55.3	12.9	64.6	18.1	79	26.1	1956	46.1	7.8	35	1.7	1945
18	49.6	12.6	62.9	17.2	73	22.8	1974*	46.3	7.9	35	1.7	1958
19	54.7	12.6	63.6	17.6	74	23.3	1959	46.0	7.8	37	2.8	1973
20	55.6	13.1	64.9	18.3	81	27.2	1960	46.4	8.0	37	2.8	1968
21	55.2	12.9	63.6	17.6	74	23.3	1977	46.7	8.2	33	.6	1968
22	54.7	12.7	62.9	17.2	77	25.0	1978	47.3	8.5	34	1.1	1968
23	55.3	12.9	63.8	17.7	74	23.3	1963	46.9	8.3	37	2.8	1968
24	54.9	12.7	63.9	17.7	74	23.3	1947	45.9	7.7	35	1.7	1974
25	55.3	12.9	64.9	18.3	72	25.6	1972*	45.6	7.6	33	.6	1974
26	49.4	12.4	63.4	17.4	74	25.6	1976	45.5	7.5	35	1.7	1974
27	54.8	12.7	63.9	17.7	82	27.8	1947	45.7	7.6	34	3.3	1974
28	54.5	12.5	62.8	17.1	74	23.3	1956	46.2	7.9	37	2.8	1966
29	54.5	12.5	63.3	17.4	85	29.4	1963	45.8	7.6	36	2.2	1966
30	53.3	11.8	63.0	17.2	87	30.6	1980	45.6	6.6	35	1.7	1971
31	54.6	12.6	64.6	18.1	71	25.6	1958	44.8	6.9	38	3.3	1955
Monthly	55.2	12.9	64.4	18.0	87	30.6	1980	46.1	7.8	39	-1.1	1978

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

95-97, 99-02
YEARS

YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
85				76		70	75	77	86	92		73	
86			77	79	70								
87				90	70		79		78	74	73		
88				82	70	71	74	73					
89	81											72	
90													
91	81											72	
92	72	66	72	67	88	75	74	79	85	79	95	79	95
93	69	78	72	69	70	89	79	83	76	80	79	80	89
94	78	79	66	83	83	75	77	79	91	97	78	84	97
95	74	69	84	79	72	73	82	78	99	80	82	83	99
96	74	69	81	82	75	72	79	77	82	90	74	81	90
97	83	74	76	81	71	72	75	80	86	105	81	70	105
98	82	66	66	76	70	71	72	77	80	82	69	70	82
99	80	83	70	86	69	71	73	77	108	80	76	85	108
00	75	74	79	83	69	70	76	76	75	95	81	67	95
01	80	77	71	74	69	67	71	85	82	102	73	81	102
02	75	73	78	75	71	75	77	79	80	86	98	73	98
03	74	78	77	69	92	71	79	80	97	95	74	76	97
04	80	78	79	88	72	71	84	82	91	85	76	76	91
05	78	75	75	74	70	71	74	77	74	79	80	76	80
06	74	76	70	72		73	77		95	79	83	71	
07	79	77	73	79	73	69	71	77		89	72	67	
08	71	78	71	73	72	75	80	86	78	75	71	78	86
09	67	73	66	78	77	80	73	79	87	85	69	75	87
10	70	82	69	78	70	77	85	79	81	87	96	75	96
11	81	72	69	66	67	69	74	73	107	81	84	74	107
12		80	79	70	71							82	
13	83	81	78	72	75						84		
14				72		82		77					
15		89	83	73	91	91	78	80	95	76	80	89	
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-82
YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
80	76	81	75	79	79	90	96	97	80	88			
81	76	80	68	78			78	81		78		71	
82													
MEAN	76.9	75.5	74.0	76.1	74.1	74.8	77.9	79.5	84.7	83.6	79.5	76.2	84.7
S. D.	4.36	4.86	5.28	4.88	6.93	6.85	5.27	4.76	9.71	8.38	8.09	5.40	6.88
TOTAL OBS.	74	70	80	90	80	75	80	77	69	78	69	77	622

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-82
YEARS

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45											92 29		MAX TEMP DAYS
46	71 29	68 27											MAX TEMP DAYS
47	73 22	72 23	82 30									82 30	MAX TEMP DAYS
55											78 22		MAX TEMP DAYS
70					78 26			82 21					MAX TEMP DAYS
71									81 28				MAX TEMP DAYS
76	86 30					78 11	0	75 14	77 27	83 30	99 29		MAX TEMP DAYS
77						73 27	82 30	79 19	80 22	80 28		80 25	MAX TEMP DAYS
78	75 29	81 27	93 30		83 28		79 29		103 27	90 29	75 28	74 26	MAX TEMP DAYS
79	70 30												MAX TEMP DAYS
80											80 29	87 29	MAX TEMP DAYS
81					75 29	94 26			81 29				MAX TEMP DAYS
82	62 4	81 13	68 15	72 10	72 24	70 6	72 19	83 18	82 7	90 25	78 9	68 16	MAX TEMP DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

5315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

45-49, 55-92
YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45				34		54		60	51	47		33	
46	28		41	48	48								
47				45	52		55		55	48	38		
48				39	46	51	52	58					
49	29												
55												36	
56	36	35	36	43	46	51	60	56	55	43	36	31	31
57	38	40	37	42	49	55	59	56	54	49	37	37	37
58	38	42	39	44	50	55	60	63	55	51	41	35	35
59	40	39	45	51	49	57	63	58	61	48	45	39	39
60	36	38	44	47	50	57	57	61	56	50	43	33	33
61	38	41	46	47	51	54	58	64	54	49	40	40	34
62	38	39	37	49	47	54	58	60	56	51	44	38	37
63	27	46	42	44	50	53	58	60	62	53	45	38	27
64	38	38	40	44	47	51	55	60	55	50	36	37	36
65	18	37	43	43	49	51	57	60	52	50	46	41	37
66	37	38	35	44	51	53	59	63	52	49	42	36	35
67	36	39	41	42	49	48	59	62	61	50	48	37	36
68	36	44	43	45	47	54	53	61	55	49	41	33	33
69	39	43	42	50	53	57	55	63	60	53	50	42	39
70	40	44	44	45		53	60		51	42	42	38	
71	26	36	33	41	46	46	54	56		35	39	33	
72	29	43	46	46	52	55	60	58	58	41	45	41	29
73	41	47	48	48	52	55	55	57	54	47	41	37	
74	39	37	40	44	54	54	59	62	61	56	45	33	33
75	39	33	40	48	48		55	58	60		38	36	
76		43	39	41	52								
77	39	36	40	42	50								
78				48									
79		39	38	46	48	51	55	59	57			40	
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

03115 IMPERIAL BEACH, CALIFORNIA 45-47, 55-82
STATION STATION NAME YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
50	45		45	46	49	53	60	57	58	50	44		
51	42	42	45	46			63	61		48		46	
52													
MEAN	37.5	40.0	40.9	44.0	49.2	53.3	57.6	59.8	56.1	48.2	42.1	37.1	34.7
S. D.	4.88	3.49	3.52	3.31	2.46	2.97	2.90	2.35	3.35	4.45	3.81	3.52	3.47
TOTAL OBS.	77	67	77	90	80	69	77	74	69	71	66	74	895

SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

3315 STATION IMPERIAL BEACH, CALIFORNIA STATION NAME 43-44, 55-82 YEARS

WINDS IN WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45							58 70				78 79		MIN TEMP DAYS
46		32 27											MIN TEMP DAYS
47	27 22	41 23	41 29									30 30	MIN TEMP DAYS
55											40 72		MIN TEMP DAYS
70					51 25			51 18					MIN TEMP DAYS
71									51 28				MIN TEMP DAYS
73			43 30										MIN TEMP DAYS
75						54 28				48 30			MIN TEMP DAYS
76	32 28					55 7		58 14	61 25	46 30	35 29	40 29	MIN TEMP DAYS
77						54 25	54 23	60 19	56 23	54 24	44 27	47 25	MIN TEMP DAYS
78	40 29	43 27	48 30		49 28	56 28	54 27	53 30	52 26	54 28	44 28	30 26	MIN TEMP DAYS
79	35 30									55 15	39 23		MIN TEMP DAYS
80		45 28										42 29	MIN TEMP DAYS
81					52 28	59 26			58 28				MIN TEMP DAYS
82	50 1	45 17	45 15	45 10	53 24	57 8	57 17	62 18	66 7	52 25	51 9	40 16	MIN TEMP DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

PSYCHROMETRIC SUMMARY

STATION IMPERIAL BEACH, CALIFORNIA

73-82

JAN

STATION

STATION NAME

YEARS

MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb	Dew Point
71													.1					3	3		
72														.1				2	2		
73														.1				8	8		
74																		7	7		
75																		12	12		
76																		14	14		
77																		30	30		
78																		78	78		
79																		135	135	5	7
80																		200	200	28	13
81																		231	231	66	30
82																		197	197	124	62
83																		149	149	229	106
84																		116	116	253	122
85																		87	87	173	159
86																		69	69	144	172
87																		36	36	107	151
88																		31	31	63	122
89																		25	25	48	114
90																		22	22	47	74
91																		6	6	32	65
92																		1	1	22	46
93																		1	1	17	43
94																		2	2	1	34
95																					17
96																					21
97																					24
98																					17
99																					4
100																					4
101																					1
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature															
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total									
Dry Bulb																					
Wet Bulb																					
Dew Point																					

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PSYCHROMETRIC SUMMARY

IMPERIAL BEACH, CALIFORNIA

73-42

JAN.

STATION

STATION NAME

YEARS

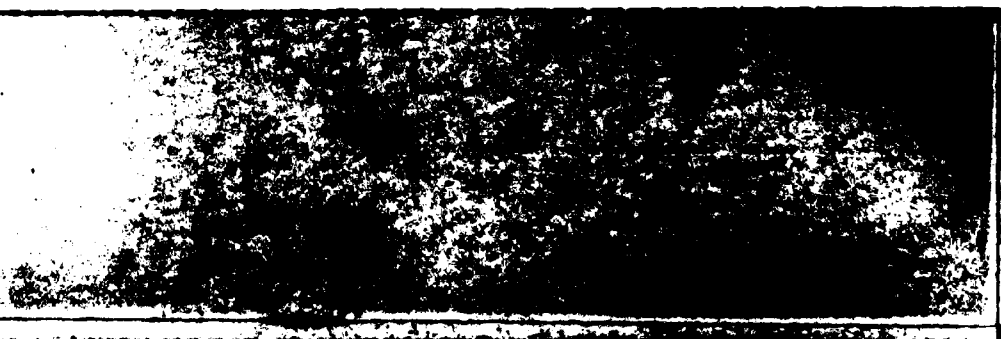
MONTH

PAGE 2

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb	Dew Point
70	7.0	6.6	2.2	1.1	3.2	8.7	4.2	3.6	2.3	1.2	.8	.5	.1	.1	.1	.1		1465	1465	1465	
71																					
72																					
73																					
74																					
75																					
76																					
77																					
78																					
79																					
80																					
81																					
82																					
83																					
84																					
85																					
86																					
87																					
88																					
89																					
90																					
91																					
92																					
93																					
94																					
95																					
96																					
97																					
98																					
99																					
100																					
Element (X)	Σx²		Σx		Σ	σ _x	No. Obs.		Mean No. of Hours with Temperature						Total						
Rel. Hum.	316602		99598		78.0	19.301	1465		≤0 F	≤32 F	≤67 F	≤75 F	≤80 F	≤93 F	748.0						
Dry Bulb	429558		84456		57.6	6.453	1465				39.1	10.7	2.0		748.0						
Wet Bulb	363407		75745		51.7	5.699	1465				1.0				748.0						
Dew Point	319368		67076		45.8	4.293	1465				73.6				748.0						

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PSYCHROMETRIC SUMMARY

STATION: 3115 IMPERIAL BEACH, CALIFORNIA

73-82

FEB

STATION NAME

STATION NAME

YEARS

MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.S./W.B.	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	Dry Bulb	Wet Bulb
7 / 73																		3	3	
7 / 77																		4	4	
7 / 75																		9	9	
7 / 72																		11	11	
7 / 74																		12	12	
7 / 69																		19	19	
6 / 67																		37	37	
6 / 63																		61	61	
6 / 65																		112	112	6
6 / 61																		195	195	60
6 / 59																		242	243	86
7 / 57																		180	180	162
5 / 55																		134	134	294
6 / 53																		99	99	239
2 / 51																		57	57	156
5 / 49																		68	68	130
5 / 47																		35	35	76
5 / 45																		22	22	55
5 / 43																		14	14	35
5 / 41																		10	10	20
5 / 39																		6	6	13
3 / 37																		1	1	13
2 / 35																				7
3 / 33																				22
2 / 31																				2
2 / 29																				10
1 / 27																				12
1 / 25																				6
1 / 23																				5
2 / 21																				10
1 / 19																				7
1 / 17																				5
1 / 15																				1
1 / 13																				1
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total								
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F									
Dry Bulb																				
Wet Bulb																				
Dew Point																				

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12/8 2097 84321

PSYCHROMETRIC SUMMARY

0115
IMPERIAL BEACH, CALIFORNIA
73-82
MAR

PAGE 1
 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb
67-80													.1		.1	.1		4	4	
67-81															.1			1	1	
67-79									.1									1	1	
67-77									.1	.1			.1					3	3	
67-75															.1			1	1	
67-73									.1	.2			.1					7	7	
67-71								.3		.1		.1	.1		.1			4	4	
67-69					.1	.2	.3	.2	.1	.2	.1	.1						22	22	
67-67				.1	.2	.4	.5	.1		.1								38	38	
67-65			.1	1.0	1.2	1.0	.2	.2			.1							66	66	
67-63		.1	.2	3.2	3.7	1.6	.3	.2	.1									143	143	
67-61		.6	1.3	5.3	6.2	2.3	.6	.1	.1									253	253	13
67-59	.1	2.0	2.7	5.2	3.7	1.9	1.0	.3	.1									291	291	79
67-57	.1	1.2	1.3	3.7	1.9	.8	.3	.1										211	211	192
67-55	.1	2.4	2.4	2.9	1.6	.5		.1										180	180	272
67-53	.2	2.2	3.2	1.6	.5	.4		.1										177	127	332
67-51		1.9	1.9	.7	.3	.1												70	70	251
67-49		.7	1.2	.3														36	36	169
67-47	.1	.7	.7	.3	.1		.1											28	28	99
67-45		.1	.2	.2						.1								10	10	60
67-43	.1	.3	.2		.1													11	11	22
67-41	.1	.1	.2	.1														8	8	17
67-39				.1	.1													2	2	8
67-37																				1
67-35																				4
67-33																				1
67-31																				
67-29																				10
67-27																				
67-25																				3
67-23																				
67-21																				5
67-19																				7
67-17																				2
Element (X)	ΣX^2	ΣX	\bar{X}	σ_X	No. Obs.	Mean No. of Hours with Temperature														
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total								
Dry Bulb																				
Wet Bulb																				
Dew Point																				

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1478 2037-84321

PSYCHROMETRIC SUMMARY

STATION
STATION NAME
YEAR
APR
MONTH

IMPERIAL BEACH, CALIFORNIA

73-82

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb
71											.1							1	1	
72																		2	2	
73											.1	.1						5	5	
74											.1	.1	.1					9	9	
75											.1	.2	.1					11	11	
76					.1	.1	.2											24	24	
77					1.7	2.4	1.5	.4	.1	.1								98	98	
78					2.1	3.9	2.7	.9										146	146	2
79		.1	1.0	4.0	5.0	2.9	.7			.1	.1							221	221	11
80		.2	1.5	5.3	6.2	2.0	.2	.2										246	246	47
81		1.8	4.1	5.8	4.8	1.4	.1											262	262	125
82		1.4	3.3	5.0	1.3	.5	.1			.1								217	217	238
83		1.3	4.2	3.2	1.5													152	152	329
84		.9	1.4	1.2	.5													60	60	346
85		.4	.9	.3	.1													24	24	214
86		.1	.1	.2														9	9	105
87			.5															3	3	57
88			.1															1	1	10
89																				7
90																				84
91																				63
92																				32
93																				14
94																				9
95																				2
96																				4
97																				2
98																				3
99																				1
100																				7
101																				1
TOTAL		6.4	19.4	30.7	5.4	11.5	2.8	.8	.4	.3	.5	.4	.1					1491	1491	1491
Element (X)	ΣX^2	ΣX		\bar{X}	σ_x	No. Obs.		Mean No. of Hours with Temperature						Total						
Dry Bulb	6947979	100067		67.1	12.374	1491		≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	720.7						
Wet Bulb	45326	8132		54.5	3.477	1491				72.4	9.2			720.0						
Dew Point	365785	73851		49.5	3.094	1491				6.1				720.0						

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PSYCHROMETRIC SUMMARY

IMPERIAL BEACH, CALIFORNIA

1952

MAY

STATION

STATION NAME

YEARS

SOUTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb	Dew Point						
72-75												.1										1	1			
73-76												.1										1	1			
74-77											.1	.1	.1	.1			.1					2	2			
75-78											.2	.1					.1					6	6			
76-79										.1	.3	.1	.1	.1	.1		.3					14	14			
77-80										.1	.6	.6	.5									25	25			
78-81			.1							.1	1.0	.2		.1								59	59			
79-82		.1	.6	3.1	3.0	4.2	.6	.1														163	168	1		
80-83		.1	1.2	5.5	7.7	7.5	.5															253	253	12	2	
81-84	.1	.6	4.4	6.9	9.9	1.4	.1	.1														255	255	44	4	
82-85		2.0	5.7	7.7	7.3	.3																258	258	129	15	
83-86		3.6	6.6	6.4	.3	.1																224	224	264	53	
84-87		2.4	3.7	3.5	.3																	144	144	438	105	
85-88		.3	.5	.4	.1																	71	21	324	257	
86-89		.1	.3																			6	6	145	299	
87-90			.1																			1	1	52	268	
88-91																								14	165	
89-92																									101	
90-93																									46	
91-94																									15	
92-95																									8	
93-96																									4	
94-97																									4	
95-98																									1	
96-99	.1	.2	23.3	331.0	21.0	10.5	2.2	.3	.6	.9	.1	.1	.1									1446	1446		1446	
TOTAL																							1446	1446	1446	
Element (X)	Σx^2	Σx	X	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total														
Ref. Num.	7320919	101579	70.2	11.32	1446	≥0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total														
Dry Bulb	3300918	91398	63.2	9.065	1446			146.1	16.5	1.0		740.3														
Wet Bulb	4769959	82943	57.4	2.467	1446			.5				700.0														
Dew Point	4871663	74521	52.9	3.923	1446			.5				799.0														

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PSYCHROMETRIC SUMMARY

115
IMPERIAL BEACH, CALIFORNIA
73-92
JUN
STATION STATION NAME YEAR MONTH

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb	Dew Point
70-71																		2	2		
71-72																		4	4		
72-73																		2	2		
73-74																		4	4		
74-75																		12	12		
75-76																		19	19		
76-77																		53	53		
77-78																		66	66	1	
78-79																		109	109	6	
79-80																		158	158	37	1
80-81																		225	225	78	21
81-82																		210	210	117	46
82-83																		262	262	206	44
83-84																		210	210	273	155
84-85																		135	135	311	248
85-86																		15	15	275	217
86-87																		1	1	150	211
87-88																				30	275
88-89																				3	137
89-90																					40
90-91																					25
91-92																					6
92-93																					2
93-94																					6
94-95																					1
95-96																					1
96-97																					1
97-98																					1
98-99																					1
99-100																					1
TOTAL																		1491	1491		1491
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature						Total									
Rel. Hum.	99267	103518	72.8	11.017	1491	≥0 F	≥32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total									
Dry Bulb	637865	92886	62.3	3.004	1491			317.7	60.2	11.1		720.0									
Wet Bulb	151009	9723	6.57	1.71	1491			16.9	.5			720.0									
Dew Point	445000	8400	5.63	0.876	1491			1.0	10.6			720.0									

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PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA YEAR: 71-72 MONTH: JUL
STATION NAME YEARS MONTH

PAGE 1
HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb
70-71										.1								1	1	
71-72								.1										1	1	
72-73										.1		.1						2	2	
73-74										.1								1	1	
74-75						.5				.1								6	6	
75-76				.1	.7	.1				.1								16	16	
76-77				.1	1.2	.4			.1	.1								29	29	
77-78			.1	.7	1.5	.7			.1									35	35	
78-79			.1	1.1	1.8	1.7			.1									70	70	4
79-80		.1	.5	3.3	5.7	1.8			.1									151	151	70
80-81		.1	1.3	4.6	6.1	1.9			.1									207	207	34
81-82		.3	2.2	5.8	5.0	.5												196	196	78
82-83		1.0	6.0	6.3	3.1	.5	.1											261	261	142
83-84	.1	2.7	4.9	4.2	1.7	.1												219	219	229
84-85		3.4	5.4	2.2	.3													173	173	363
85-86		1.9	1.9	1.1	.3													76	76	287
86-87	.1	.7	.2	.1	.1													19	19	232
87-88		.2																3	3	71
88-89		.1																2	2	23
89-90																				4
90-91																				1
91-92																				1
92-93																				4
93-94																				0
Totals	.1	11.0	22.0	22.4	25.4	8.7	1.0	.1	.1		.1							1465	1465	1465

Element (X)	Σx^2	Σx	\bar{x}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≥ 80 F	≥ 93 F	
Dry Bulb	4276106	107324	74.5	9.36	1466			494.6	158.1	20.8		744.0
Wet Bulb	5435277	93191	63.5	3.63	1466			140.9	12.7			744.0
Dew Point	5138007	89335	60.7	3.52	1466			98.1	2.0			744.0

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PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA YEARS: 1957 MONTH: AUG
PAGE 1
HOURS (LST)

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	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point				
80						.1												1	1						
79					.1	.1	.1											4	4						
78				.1	.4	.4	.1											17	17						
77				.1	1.4	.7	.1											37	37						
76				.3	3.4	1.7	.6											125	125	1					
75			.1	.3	1.1	.1	.1											237	237	2					
74		.1	2.1	6.4	3.9	1.1												210	210	17	1				
73		.7	4.7	8.8	3.4	.5												245	245	28	5				
72	.1	1.9	4.9	4.3	1.4	.1												257	257	200	52				
71		.7	4.7	1.6														201	201	392	157				
70	.1	.7	.4	1.6														120	120	475	273				
69	.1	2.2	.3															47	47	230	393				
68	.1	1.1	.1															17	17	127	297				
67		.1																4	4	38	201				
66																					117				
65																					18				
64	.1	14.6	24.0	30.4	20.9	7.0	1.5											1522	1522	1522	1522				
63																									
62																									
61																									
60																									
59																									
58																									
57																									
56																									
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10																									
9																									
8																									
7																									
6																									
5																									
4																									
3																									
2																									
1																									
0																									

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total	
Rel. Hum.	6047.7	114.94	75.0	10.71	1522	≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	740.7
Dry Bulb	3734.7	1037.0	69.0	4.74	1522			563.5	279.8	5.0		848.3
Wet Bulb	523.7	0773	4.02	2.21	1522			105.2	1.5			106.7
Dew Point	5027.5	9299	61.1	3.15	1522			23.2				23.2

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PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA YEARS: 1952 MONTH: _____

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	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		Dry Bulb	Wet Bulb	Dew Point	
72																	.1	1	1			
73																	.1	1	1			
74													.1				.1	1	1			
75												.1	.1				.1	1	1			
76							.1	.1		.1	.1	.1	.1				.1	1	1			
77					.1	.1	.1	.1	.1	.1	.1	.1	.1				.1	1	1			
78			.1	1.2	2.3	2.6	.4	.1									.1	1	1			
79			.1	1.1	4.3	2.5	.4										.1	1	1			
80		.1	1.3	5.3	3.7	2.1	.2	.1	.1	.1							.1	1	1			
81		.1	1.1	4.7	3.7	.2	.2	.1	.1	.1							.1	1	1			
82	.1	1.1	1.1	4.9	2.2	.4	.1	.1		.1							.1	1	1			
83	.1	1.1	1.1	4.9	.6	.1		.1	.1	.1							.1	1	1			
84	.1	1.1	1.1	2.5	.3					.1							.1	1	1			
85	.1	.4	.1	.1													.1	1	1			
86	.1	.1															.1	1	1			
87																						
88																						
89																						
90																						
91																						
92																						
93																						
94																						
95																						
96																						
97																						
98																						
99																						
100																						
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature																
Ref. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total										
Dry Bulb																						
Wet Bulb																						
Dew Point																						

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PSYCHROMETRIC SUMMARY

STATION: 3RD SEAL PLAZA, CALIF 4ND YEARS: 1952 MONTH: OCT

PAGE 1
HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb	Dew Point		
60														.1				1	1				
61														.1				4	4				
62													.1	.1				10	10				
63													.1	.2				12	13				
64													.1	.1				9	9				
65													.1	.1				21	23				
66				.1	.1								.1	.1				75	75				
67			.1	1.7	1.7	1.7	.1	.1	.1	.1			.1	.1				132	132				
68			.1	2.5	3.0	1.5	.4	.2	.1	.1	.1	.1						173	173				
69		.1	1.4	4.8	3.0	1.7	.4	.1	.1	.1								195	195				
70		.1	1.7	4.6	3.0	1.2	.1											212	212	170			
71		.1	1.7	3.8	3.7	1.7	.1			.1	.1							227	227	226			
72	.1	1.4	3.5	1.9	.4	.1	.1	.1										151	151	277			
73	.1	1.4	2.8	1.6	.1	.1	.1	.1										109	109	279			
74	.1	1.4	1.2	.1	.1													60	60	195			
75	.1	.1	.1	.1	.1													34	34	124			
76	.1	.1	.1	.1	.1	.1	.1											10	10	50			
77	.1	.1	.1	.1	.1													11	11	35			
78																		1	1	26			
79																				19			
80																				7			
81																				3			
82																				11			
83																				4			
84																				0			
85																				12			
86																				17			
87																				6			
88																				7			
89																				3			
90																				1			
Element (X)	ΣX^2		ΣX			\bar{X}	σ_x	No. Obs.		Mean No. of Hours with Temperature													
Rel. Hum.									≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≥93 F	Total								
Dry Bulb																							
Wet Bulb																							
Dew Point																							

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FORM 2097 54321

1078 2087 54321

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PSYCHROMETRIC SUMMARY

116
STATION

COMMERCIAL BEACH, CALIFORNIA
STATION NAME

73-72
YEARS

MONTH

007
MONTH

PAGE 2
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb	Dew Point		
	1.21	1.12	1.25	25.7	27.8	2.2	2.7	1.7	1.1	1.0	.8	.6	.7	.4	.1			1450	1450	1450			
Element (X)	$\sum x^2$		$\sum x$		\bar{x}	σ_x	No. Obs.		Mean No. of Hours with Temperature														
Rel. Hum.	742245		105022		71.5	26.13	145		≤0 F	≤32 F	≤67 F	≤73 F	≤80 F	≥93 F	Total								
Dry Bulb	116313		86356		65.8	5.15	145				225.8	69.3	10.8		748.7								
Wet Bulb	21587		86717		59.8	2.51	145				44.2				748.7								
Dew Point	42458		87225		55.1	7.45	145			23.1	3.6				748.7								

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PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA STATION NAME: 73-11 YEARS: NOV MONTH: NOV

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.S./W.B.	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		Dry Bulb	Wet Bulb	Dew Point
67																	.1	1	1		
68																	.1	1	1		
69																.1	.1	3	3		
70																.1	.1	1	1		
71																.1	.1	2	2		
72																.1	.1	3	3		
73																.1	.1	10	10		
74																.1	.1	12	13		
75																.1	.1	16	16		
76																.1	.1	19	19		
77																.1	.1	25	25		
78																.1	.1	37	37		
79																.1	.1	55	55		
80																.1	.1	101	101	3	
81																.1	.1	176	176	16	
82																.1	.1	189	189	31	
83																.1	.1	171	171	92	
84																.1	.1	140	140	200	
85																.1	.1	144	144	227	
86																.1	.1	96	96	205	
87																.1	.1	76	76	155	
88																.1	.1	50	50	123	
89																.1	.1	27	27	94	
90																.1	.1	18	18	73	
91																.1	.1	16	16	60	
92																.1	.1	12	12	75	
93																.1	.1	4	4	33	
94																.1	.1	3	3	13	
95																.1	.1			5	
96																.1	.1			34	
97																.1	.1			36	
98																.1	.1			1	
99																.1	.1			17	
100																.1	.1			14	
101																.1	.1			17	
102																.1	.1			11	
Element (X)	ΣX^2		ΣX		\bar{X}	σ_X	No. Obs.		Mean No. of Hours with Temperature												
Rel. Hum.									≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total						
Dry Bulb																					
Wet Bulb																					
Dew Point																					

NOV 2097-54321

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PSYCHROMETRIC SUMMARY

1916
IMPERIAL BEACH, CALIFORNIA
71-72
DEC

STATION
STATION NAME
YEARS
MONTH

PAGE 1
HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb	Dew Point
71-77																		1	1		
71-78																		1	1		
71-79																		3	3		
71-80																		3	3		
71-81																		10	10		
71-82																		17	17		
71-83																		14	14		
71-84																		37	37		
71-85																		56	56		
71-86																		103	103	1	
71-87																		154	154	2	1
71-88																		147	147	20	2
71-89																		178	178	79	25
71-90																		171	171	165	41
71-91																		123	123	195	94
71-92																		95	95	195	130
71-93																		82	82	187	138
71-94																		50	66	142	153
71-95																		40	40	124	123
71-96																		29	29	65	102
71-97																		36	36	62	70
71-98																		23	23	54	65
71-99																		7	7	40	56
72-00																		2	2	33	63
72-01																		2	2	18	25
72-02																		1	1	6	51
72-03																		1	1	4	40
72-04																				4	25
72-05																				1	31
72-06																				1	33
72-07																					11
72-08																					23
72-09																					17
72-10																					12
Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature															
Rel. Hum.						≤ 0 F	≤ 32 F	≤ 67 F	≤ 73 F	≤ 80 F	≤ 93 F	Total									
Dry Bulb																					
Wet Bulb																					
Dew Point																					

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PSYCHROMETRIC SUMMARY

STATION: IMPERIAL BEACH, CALIFORNIA STATION NAME: 73-42 YEARS: ALL

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)															TOTAL D.B./W.B.	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	Dry Bulb	Wet Bulb	Dew Point		
70																		1	1				
71																		1	1				
72																		1	1				
73																		1	1				
74																		1	1				
75																		1	1				
76																		1	1				
77																		1	1				
78																		1	1				
79																		1	1				
80																		1	1				
81																		1	1				
82																		1	1				
83																		1	1				
84																		1	1				
85																		1	1				
86																		1	1				
87																		1	1				
88																		1	1				
89																		1	1				
90																		1	1				
91																		1	1				
92																		1	1				
93																		1	1				
94																		1	1				
95																		1	1				
96																		1	1				
97																		1	1				
98																		1	1				
99																		1	1				
100																		1	1				
Element (X)	ΣX^2		ΣX			X	σ_x	No. Obs.					Mean No. of Hours with Temperature										
Rel. Hum.																							
Dry Bulb																							
Wet Bulb																							
Dew Point																							

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MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93115 IMPERIAL BEACH, CALIFORNIA

73-82

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
01	MEAN S. D. TOTAL OBS	55.7 /			57.3	63.5		62.0	63.0	57.0		47.8 4.722	45.0	54.1 6.975 19	
04	MEAN S. D. TOTAL OBS	52.0 5.244	49.0		58.0	62.0			63.0	60.5		47.0 4.336	46.0	52.0 7.130 19	
07	MEAN S. D. TOTAL OBS	49.8 5.827	50.7 5.400	52.7 4.898	57.1 3.624	61.1 3.279	64.4 4.935	66.7 5.037	66.6 3.809	66.2 4.061	60.7 4.219	54.0 5.684	49.3 6.142	58.5 8.112 3245	
10	MEAN S. D. TOTAL OBS	60.0 5.026	61.0 4.814	61.3 4.485	63.1 3.938	65.2 3.537	68.0 4.407	70.4 4.014	71.3 3.278	71.5 4.960	68.8 4.279	66.0 6.745	61.9 5.749	65.7 6.191 3338	
13	MEAN S. D. TOTAL OBS	62.2 4.983	62.8 4.569	62.2 3.990	64.1 3.264	66.3 3.104	69.3 4.305	71.9 3.663	72.7 2.885	73.0 4.668	70.0 4.005	66.7 5.822	63.6 5.763	67.1 5.836 3337	
16	MEAN S. D. TOTAL OBS	60.6 4.210	61.4 3.957	61.1 3.917	63.0 3.225	65.0 3.185	68.3 4.364	71.1 3.712	71.7 3.169	71.5 4.481	68.0 3.845	64.6 4.711	61.4 4.202	65.4 5.702 3081	
19	MEAN S. D. TOTAL OBS	55.9 3.624	56.5 3.452	56.6 3.299	58.0 2.958	60.1 2.576	63.8 4.114	66.6 3.868	66.7 2.871	66.5 3.409	63.0 3.290	59.4 4.254	55.7 4.331	60.8 5.440 2758	
22	MEAN S. D. TOTAL OBS	55.2 3.760	56.3 3.519	56.1 3.461	57.2 2.936	59.4 2.674	62.2 3.231	64.3 3.279	65.9 3.241	65.3 3.368	61.9 2.972	57.3 4.387	54.6 4.544	60.0 5.236 1622	
ALL HOURS	MEAN S. D. TOTAL OBS	57.6 6.454	58.5 6.180	58.7 5.421	60.8 4.459	63.2 4.066	66.3 5.086	68.9 4.767	69.5 4.280	69.3 5.245	68.8 5.352	61.7 7.309	58.2 7.305	63.3 7.099 17419	

NAVWEASERVCOM

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93115 IMPERIAL PEACH, CALIFORNIA

73-82

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
73	MEAN S. D. TOTAL OBS	50.0 8	 	 	50.7 1	59.5 2	 	60.0 1	62.0 1	56.0 1	 	45.2 4.207 5	43.0 2	50.6 6.518 19	
74	MEAN S. D. TOTAL OBS	46.4 5.814 5	46.0 1	 	50.0 1	59.5 2	 	 	62.0 1	53.0 2	 	44.7 4.457 6	39.0 1	49.5 7.229 19	
77	MEAN S. D. TOTAL OBS	45.7 6.468 269	47.1 5.889 263	48.9 4.839 275	52.2 3.460 270	56.4 2.671 278	59.9 3.779 283	62.8 3.918 283	63.1 3.076 289	61.7 3.796 272	56.2 5.537 276	48.1 5.715 249	43.8 6.366 258	54.1 8.268 3245	
11	MEAN S. D. TOTAL OBS	52.2 4.829 284	53.7 3.914 261	54.1 3.382 292	55.5 2.895 281	58.3 2.545 278	61.6 3.508 283	64.4 3.392 285	65.1 2.665 289	64.4 3.262 272	61.0 3.716 281	55.8 4.245 264	51.7 4.595 268	58.2 6.001 3338	
13	MEAN S. D. TOTAL OBS	54.6 4.095 224	55.7 3.158 261	54.9 3.197 292	56.4 3.027 281	58.9 2.495 278	62.1 3.501 282	64.7 3.304 285	65.6 2.461 289	65.2 2.962 272	62.4 3.300 281	57.7 3.897 264	54.8 4.021 268	59.5 5.341 3337	
15	MEAN S. D. TOTAL OBS	54.3 3.934 280	55.5 3.027 255	54.3 3.291 283	55.8 3.060 269	58.1 2.436 242	61.6 3.630 248	64.3 3.324 234	65.1 2.583 258	64.4 2.965 235	61.5 3.071 245	57.5 3.906 264	54.7 3.821 267	58.7 5.209 3080	
17	MEAN S. D. TOTAL OBS	51.7 4.061 233	52.6 3.588 215	51.9 3.448 248	53.3 2.897 244	55.7 2.479 231	59.4 3.308 238	62.2 3.389 227	62.9 2.593 240	62.0 2.867 226	58.8 3.234 224	54.4 3.931 216	50.9 4.818 212	56.3 5.501 2758	
22	MEAN S. D. TOTAL OBS	51.5 4.973 106	52.5 3.989 95	52.2 3.034 131	53.2 3.209 140	55.5 2.756 138	58.8 3.019 157	61.4 3.118 153	62.9 2.662 158	61.5 3.208 142	58.1 3.945 141	52.1 4.722 141	49.1 5.881 124	56.1 5.842 1622	
ALL HOURS	MEAN S. D. TOTAL OBS	51.7 5.700 1865	53.0 5.023 1333	52.8 4.190 1521	54.5 3.478 1491	57.4 2.861 1884	60.7 3.717 1891	63.5 3.633 1868	64.2 2.922 1522	63.4 3.555 1822	59.8 4.512 1450	54.4 5.651 1409	51.0 6.277 1402	57.3 6.457 17418	

NAVWEASERVCOM

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93115 IMPERIAL BEACH, CALIFORNIA 73-02

STATION	STATION NAME	YEARS												
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN S. D. TOTAL OBS	45.8 4			44.7 1	57.0 2		58.0 1	61.0 1	55.0 1		43.0 4.393 5	40.0 2	47.5 7.144 19
04	MEAN S. D. TOTAL OBS	40.6 8.849 5	42.0 1		43.0 1	56.0 2			61.0 1	44.5 2		42.3 5.820 6	29.0 1	44.1 9.947 19
07	MEAN S. D. TOTAL OBS	40.5 11.326 249	43.0 9.512 243	45.0 7.217 275	47.6 5.893 270	52.6 4.475 278	56.7 4.976 283	60.5 4.124 283	61.0 3.453 289	58.6 6.490 272	52.0 9.739 276	41.2 11.288 289	36.2 12.167 258	49.9 11.343 3245
10	MEAN S. D. TOTAL OBS	44.3 9.989 288	46.5 9.422 261	47.5 7.011 292	49.2 5.185 281	53.3 3.907 278	57.3 4.711 283	60.7 3.829 285	61.4 3.158 289	60.0 5.276 272	55.1 8.505 281	46.2 11.143 268	40.4 12.162 268	51.9 10.144 3338
11	MEAN S. D. TOTAL OBS	47.5 8.384 284	49.7 6.754 261	48.7 5.569 292	50.2 4.775 281	53.5 3.620 278	57.3 4.597 282	60.4 3.980 285	61.4 3.108 289	60.6 4.256 272	57.1 6.170 281	50.3 8.206 268	46.4 9.864 268	53.7 8.044 3337
14	MEAN S. D. TOTAL OBS	48.5 7.827 280	50.5 5.555 258	48.3 5.678 283	50.0 4.735 269	53.1 3.542 242	57.1 4.489 288	60.1 3.863 238	61.2 3.085 258	60.1 3.999 235	57.0 5.202 285	51.4 7.219 268	48.5 8.541 267	53.6 7.364 3080
17	MEAN S. D. TOTAL OBS	47.5 7.617 233	49.1 5.896 218	47.4 5.540 248	49.1 4.511 246	52.2 3.708 231	56.3 4.228 238	59.4 3.892 227	60.4 2.993 280	59.1 4.190 226	55.8 5.141 226	49.9 7.571 216	45.9 9.834 212	52.7 7.598 2758
22	MEAN S. D. TOTAL OBS	47.8 7.912 106	49.0 6.667 95	48.7 4.776 131	49.6 4.780 140	52.3 4.069 135	56.3 4.032 157	59.6 3.542 153	61.0 2.896 155	58.9 4.617 162	55.1 6.639 161	46.6 10.076 161	42.2 12.448 126	52.7 8.609 1622
ALL HOURS	MEAN S. D. TOTAL OBS	45.8 9.293 1468	47.8 8.028 1331	47.5 6.268 1521	49.3 5.095 1491	52.9 3.923 1466	56.9 4.576 1491	60.2 3.922 1464	61.1 3.153 1522	59.6 5.041 1422	55.3 7.491 1450	47.7 10.028 1409	43.3 11.636 1402	52.4 9.152 17418

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

02119

IMPERIAL BEACH, CALIFORNIA

77-82

MAR

STATION

STATION NAME

PERIOD

MONTH

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%			
MAR	01												
	02												
	03	100.0	99.6	98.2	97.5	93.3	90.9	74.9	43.6	12.0	76.8	275	
	04	100.0	98.3	95.2	91.4	82.2	58.6	31.5	13.0	1.7	63.2	242	
	05	100.0	99.7	98.6	95.2	83.2	60.6	24.0	9.9	1.4	63.0	292	
	06	100.0	99.6	98.6	96.1	87.3	64.7	30.0	9.2	1.1	64.4	293	
	07	100.0	99.6	99.6	99.2	94.8	84.3	62.5	19.8	2.4	72.4	248	
	08	100.0	99.2	99.2	99.2	98.5	91.8	79.4	37.4	9.2	77.3	131	
	09												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	31												
	TOTALS	100.0	99.3	98.2	96.4	90.7	75.0	50.4	22.2	4.6	69.5	1521	

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

3115

IMPERIAL BEACH, CALIFORNIA

73-82

NOV

STATION

STATION NAME

PERIOD

MONTH

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%		
NOV	01	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.0	20.0	86.2	5
	04	100.0	100.0	100.0	100.0	100.0	100.0	83.3	50.0	33.3	84.0	6
	07	99.2	97.2	89.6	82.7	74.3	66.7	53.8	29.7	12.9	66.6	249
	10	98.9	87.5	78.8	72.0	65.9	51.9	25.4	11.4	1.9	54.9	264
	13	100.0	95.8	90.2	82.6	74.6	61.0	25.0	8.7		59.2	264
	16	100.0	98.5	94.3	91.7	85.2	74.2	42.8	15.9	.8	65.9	264
	19	99.5	99.1	97.2	91.7	88.0	83.8	65.7	38.9	12.0	73.6	216
	22	99.3	95.7	93.6	90.8	85.8	82.3	66.7	30.5	10.6	71.4	141
TOTALS		99.6	96.7	93.0	88.9	84.7	77.7	57.8	33.1	11.4	70.2	1409

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

RELATIVE HUMIDITY

3115

IMPERIAL BEACH, CALIFORNIA

73-82

ALL

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	99.9	98.9	96.5	93.1	84.6	73.6	57.2	23.2	8.0	69.0	1465
FEB		99.9	99.0	96.8	93.7	89.5	80.3	65.3	29.7	10.8	72.6	1331
MAR		100.0	99.3	98.2	96.4	90.0	75.0	50.4	22.2	4.6	69.5	1521
APR		100.0	99.7	99.3	98.4	94.3	63.3	31.7	11.3	1.5	66.0	1491
MAY		100.0	100.0	99.6	99.0	97.3	87.0	63.6	35.2	1.2	74.0	1446
JUN		100.0	99.8	99.1	98.7	97.7	89.4	60.3	30.1	4.8	73.5	1491
JUL		100.0	100.0	100.0	99.9	99.6	96.5	70.0	43.7	4.0	76.9	1468
AUG		100.0	100.0	100.0	100.0	99.9	95.7	77.8	51.8	31.3	80.4	1522
SEP		100.0	99.7	92.6	91.5	90.2	85.1	67.6	44.0	21.8	74.8	1422
OCT		100.0	98.9	96.4	94.6	92.0	84.0	60.9	34.4	7.2	72.4	1450
NOV		99.6	96.7	93.0	88.9	84.2	77.7	57.8	33.1	11.4	70.2	1409
DEC		99.3	96.3	92.0	85.6	66.8	57.8	40.7	26.4	12.5	64.4	1402
TOTALS		99.9	99.0	97.0	95.0	90.5	80.5	58.6	32.1	9.9	72.0	17418

OCEANAV-SMOS

**PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION**

93115 IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 JANUARY ALL
STATION STATION NAME YEARS MONTH HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	50.0		50.0							2	.1
77 TO 81			50.0	25.0				25.0		4	.3
72 TO 76	20.8	4.2	8.3	20.8		4.2	4.2	33.3	4.2	24	1.6
67 TO 71	4.3	6.9	14.9	4.3	12.8	12.8	19.1	21.3	4.3	47	3.2
62 TO 66	4.9	2.0	8.5	2.3	14.3	13.0	28.3	22.5	4.2	307	21.0
57 TO 61	7.3	3.6	10.5	4.7	11.4	11.8	21.2	16.9	12.7	534	36.5
52 TO 56	5.1	4.5	24.5	10.2	9.6	6.4	11.1	11.1	17.5	314	21.4
47 TO 51	5.5	6.9	41.4	17.2	4.8	1.4	4.8	2.1	15.9	145	9.9
42 TO 46	4.3	17.1	63.7	7.1	1.4		1.4		2.9	70	4.8
37 TO 41		33.3	60.0						6.7	15	1.0
32 TO 36		33.3	66.7							3	.2
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	6.1	4.8	19.7	7.0	10.2	9.0	17.3	14.7	11.3	1465	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

2315
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

FEBRUARY
MONTH

ALL
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81			28.6	42.9			14.3	14.3		7	.5
72 TO 76	19.2	3.6	19.2	23.1			11.5	19.2	3.6	26	2.0
67 TO 71	8.1	8.1	8.1	12.9	3.2	6.5	24.2	24.2	4.8	67	4.7
62 TO 66	3.0	2.8	6.0	2.5	13.1	14.2	25.5	25.5	5.3	287	21.2
57 TO 61	8.7	3.6	7.6	4.5	12.1	7.2	23.4	24.2	6.7	529	39.7
52 TO 56	6.9	4.2	20.8	5.0	7.7	6.7	13.5	15.4	20.4	260	19.5
47 TO 51	.9	16.8	49.6	8.0	2.7	3.5	1.8	1.8	15.0	113	8.5
42 TO 46		18.2	70.5	2.3					9.1	44	3.3
37 TO 41		22.2	55.6						22.2	9	.7
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	6.7	5.5	16.1	5.3	9.5	7.7	18.9	19.7	10.6	1332	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

07115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

MARCH
MONTH

ALL
HOURS

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86			40.0	40.0			20.0			5	.3
77 TO 81		25.0	50.0			25.0				4	.3
72 TO 76	13.3	6.7	13.3	13.3		13.3	13.3	26.7		15	1.0
67 TO 71	6.2		3.3		9.8	16.4	37.7	24.6		61	4.0
62 TO 66	5.7	.3	2.8	1.9	9.7	18.9	38.4	19.8	2.5	318	20.9
57 TO 61	5.3	1.2	2.9	1.9	10.7	14.9	35.0	23.2	9.0	646	42.5
52 TO 56	4.6	3.5	17.6	6.3	8.4	8.6	22.5	14.1	14.4	347	22.8
47 TO 51	2.1	9.6	46.8	11.7	6.4		9.6	6.4	7.4	94	6.2
42 TO 46		10.7	64.3	10.7	3.6		7.1	3.6		29	1.8
37 TO 41		33.3	66.7							1	.2
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	5.1	2.4	10.6	3.8	9.3	13.1	30.4	18.9	6.4	1521	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

0115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

APRIL ALL
MONTH HOUR PERCENT

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81	3.3							56.7		3	.2
72 TO 76	10.5	15.8	10.5			5.3	26.3	26.3	5.3	19	1.3
67 TO 71			2.3		5.5	14.1	54.7	23.4		124	8.6
62 TO 66	1.4	.4	1.4	.4	3.5	16.3	47.6	27.0	1.9	485	32.5
57 TO 61	1.8	2.3	8.1	2.8	6.9	14.5	30.8	22.9	9.9	607	40.7
52 TO 56	2.7	1.3	22.7	5.8	7.1	8.9	19.1	19.6	12.9	275	15.1
47 TO 51		4.3	43.5	17.4	8.7		8.7	4.3	13.0	23	1.5
42 TO 46			100.0							1	.1
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.8	1.5	8.2	2.4	5.6	13.8	36.1	23.6	6.8	1491	100.0

NAYWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

0215 STATION IMPERIAL BEACH, CALIFORNIA JANUARY 1973-DECEMBER 1982 MAY ALL
STATION NAME YEARS MONTH HOUR U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	10.0									1	.1
77 TO 81			9.1			9.1	18.2	54.5	9.1	11	.8
72 TO 76	10.8		5.4		2.7	27.0	37.8	16.2		37	2.6
67 TO 71	.4	.4	1.7		1.3	25.5	53.2	16.6	.9	235	16.3
62 TO 66	.8	.6	2.4	.3	5.1	25.5	47.0	14.6	3.4	638	44.1
57 TO 61	1.6	1.2	4.2	3.4	10.3	17.9	32.9	18.5	9.9	496	34.3
52 TO 56	7.4		14.6	3.7	11.1	11.1	14.8	11.1	25.9	27	1.9
47 TO 51									100.0	1	.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	1.5	.8	3.3	1.4	6.4	22.5	42.0	16.5	5.7	1446	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

JUNE
MONTH

ALL
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96								100.0		1	.1
87 TO 91						20.0	20.0	40.0	20.0	5	.3
82 TO 86	28.6		14.3				14.3	14.3	28.6	7	.5
77 TO 81	5.9		8.8			11.8	47.6	23.5	2.9	30	2.3
72 TO 76	3.0	1.2	2.4		4.8	14.5	47.6	21.1	5.4	166	11.1
67 TO 71	2.2	.4	.7	.7	3.6	21.1	48.1	19.3	3.8	445	29.8
62 TO 66	3.1	1.7	1.5	1.2	5.3	19.5	41.8	18.0	8.0	589	39.5
57 TO 61	1.6	1.6		.8	9.9	16.9	28.0	23.5	17.7	243	16.3
52 TO 56									100.0	1	.1
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.7	1.2	1.3	.8	5.3	18.7	41.9	19.9	8.1	1491	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

3115
STATION

IMPECIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

JULY
MONTH

ALL
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		25.0							75.0	4	.3
82 TO 86						40.0	60.0			10	.7
77 TO 81	1.3		1.3		5.2	20.0	50.0	16.9	3.9	77	5.2
72 TO 76	.3	1.5	.6		2.7	15.0	60.9	16.4	1.0	330	22.5
67 TO 71	.5	.5	.9		4.9	18.0	51.9	18.6	5.0	555	37.0
62 TO 66	.7	1.1	1.1	.2	8.2	21.3	32.7	23.8	10.9	641	30.0
57 TO 61	2.0	2.0		2.0	10.2	22.4	16.3	16.3	28.6	49	3.3
52 TO 56								50.0	50.0	2	.1
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	.6	1.0	.7	.1	5.5	19.1	46.6	19.3	7.0	1468	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

AUGUST
MONTH

ALL
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86		100.0								1	.1
77 TO 81		1.7	1.7		6.9	32.8	51.7		5.2	58	3.0
72 TO 76	.6	.4		.2	3.0	17.1	51.7	23.9	3.0	468	30.7
67 TO 71	1.3	1.2	.7	1.2	3.6	15.2	40.1	28.7	8.1	606	39.0
62 TO 66	5.7	2.6	4.6	1.1	6.0	13.2	25.9	28.2	12.6	348	22.9
57 TO 61	7.3	2.4	14.6	4.9	12.2	9.0	7.3	12.2	29.3	41	2.7
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.2	1.4	1.8	.9	4.3	15.8	39.9	25.6	8.0	1522	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

4115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

SEPTEMBER
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 >											
117 TO 121											
112 TO 116											
107 TO 111				100.0						1	.1
102 TO 106											
97 TO 101			100.0							1	.1
92 TO 96								100.0		1	.1
87 TO 91	25.0					37.5		37.5		0	.6
82 TO 86	9.5		9.5	4.0		19.0	28.6	28.6		21	1.5
77 TO 81	3.9		5.3	1.3	2.6	11.8	51.3	22.4	1.3	76	5.3
72 TO 76	1.2	.6	1.5	.3	2.0	11.7	50.1	28.3	4.4	343	24.1
67 TO 71	2.9	2.1	2.1	.8	5.9	16.6	33.3	24.1	12.2	523	36.8
62 TO 66	5.3	3.1	7.6	1.8	9.9	9.9	24.9	21.4	16.0	393	27.6
57 TO 61		5.6	20.4	7.4	16.7	18.5	3.7	5.6	22.2	54	3.8
52 TO 56				100.0						1	.1
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	3.3	2.0	4.5	1.4	6.2	13.5	34.8	23.7	10.9	1422	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

OCTOBER
MONTH

ALL
HOURS LISTED

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91			100.0							1	.1
82 TO 86						14.3	14.3	71.4		7	.5
77 TO 81	20.7		10.3			10.3	17.2	37.9	3.4	29	2.0
72 TO 76	3.7	1.2	1.2	.6		13.4	19.6	38.4	1.8	164	11.3
67 TO 71	2.3	.9	1.8	.2	3.0	13.0	38.7	34.0	3.2	434	29.9
62 TO 66	4.9	2.5	6.8	2.6	5.3	12.1	23.2	21.5	21.1	530	36.6
57 TO 61	4.4	5.2	26.6	7.9	6.1	3.9	4.8	13.1	27.9	229	15.8
52 TO 56	4.0	22.0	50.0	6.0	2.0			2.0	14.0	50	3.4
47 TO 51		16.7	83.3							6	.4
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	4.1	3.0	9.7	2.6	3.9	11.3	28.7	25.9	13.9	1450	100.0

NAVWEASERYCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

03114
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

NOVEMBER
MONTH

ALL
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101			100.0							1	.1
92 TO 96				100.0						1	.1
87 TO 91			25.0	75.0						4	.3
82 TO 86		10.0	20.0	10.0			10.0	40.0	10.0	10	.7
77 TO 81	32.0	2.9	14.7			5.9	14.7	20.6	8.8	34	2.4
72 TO 76	19.4	1.6	9.7		1.6	11.3	24.2	29.0	3.2	62	4.4
67 TO 71	6.3	2.9	2.9	1.1	2.9	20.0	34.9	26.9	2.3	175	12.4
62 TO 66	9.3	2.9	6.6	2.9	5.3	14.2	24.1	26.5	8.2	452	32.1
57 TO 61	6.3	4.1	18.8	5.2	6.0	9.0	14.4	13.6	22.0	368	26.1
52 TO 56	5.0	13.9	34.2	8.9	4.0	4.0	6.4	6.9	18.8	202	14.3
47 TO 51	1.1	13.8	47.7	18.4	1.5	1.5	4.6	1.5	10.8	65	4.6
42 TO 46		10.3	75.9	6.9	3.4				3.4	29	2.1
37 TO 41		60.7	33.3							6	.4
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	7.9	5.7	17.2	4.9	4.9	10.6	10.8	18.8	12.3	1469	100.0

NAVWEASERVCOM

1028

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

93115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

DECEMBER
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91					100.0					1	.1
82 TO 86											
77 TO 81	28.6		28.6	28.6	14.3					7	.5
72 TO 76	12.5	9.4	18.0	6.3		12.5	6.3	31.3	3.1	32	2.3
67 TO 71	11.8	3.9	9.0	5.9		21.6	19.6	21.6	5.9	102	7.3
62 TO 66	8.1	2.1	12.6	1.0	7.2	11.4	26.9	23.1	6.9	334	23.8
57 TO 61	7.4	4.3	14.1	1.9	8.1	11.9	17.7	16.0	18.6	419	29.9
52 TO 56	4.5	7.9	27.8	7.9	4.5	3.8	7.9	9.8	25.9	266	19.0
47 TO 51	4.3	12.9	43.6	10.0	2.9		.7	2.1	23.6	140	10.0
42 TO 46		25.6	59.8	2.4	2.4	1.2			8.5	82	5.8
37 TO 41		20.0	73.3	6.7						15	1.1
32 TO 36			66.7						33.3	3	.2
27 TO 31			100.0							1	.1
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	6.7	6.8	22.6	4.4	5.6	8.9	14.8	14.6	15.3	1402	100.0

NAVWEASERVCOM

**PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION**

3115
STATION

IMPERIAL BEACH, CALIFORNIA
STATION NAME

JANUARY 1973-DECEMBER 1982
YEARS

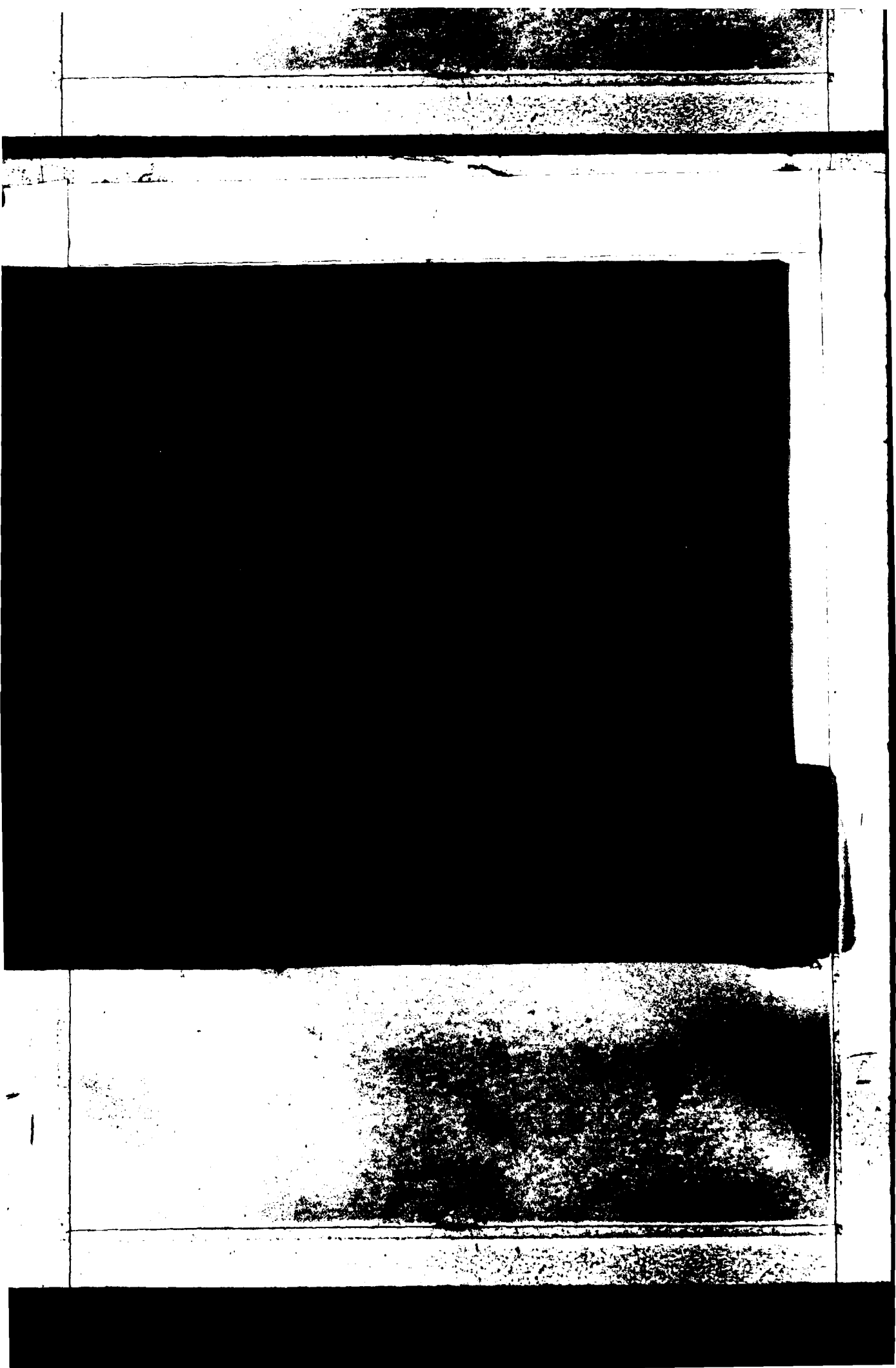
ALL
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111				100.0						1	.0
102 TO 106											
97 TO 101			100.0							2	.0
92 TO 96				33.3				66.7		3	.0
87 TO 91	6.7	4.3	8.7	13.0	4.3	17.4	4.3	21.7	17.4	23	.1
82 TO 86	9.4	3.1	12.5	6.3		14.1	25.0	25.0	4.7	64	.4
77 TO 81	7.6	.9	7.6	2.0	3.2	16.0	39.8	19.2	3.8	344	2.0
72 TO 76	3.1	1.4	2.3	1.1	2.4	14.4	47.5	24.7	3.1	1686	9.7
67 TO 71	2.4	1.3	1.9	1.0	4.1	17.7	41.7	24.3	5.6	3373	19.4
62 TO 66	4.2	1.8	4.7	1.5	7.2	16.5	33.5	22.1	8.6	5117	29.4
57 TO 61	5.0	2.8	9.3	3.5	9.5	12.6	24.5	19.4	13.3	4215	24.2
52 TO 56	4.8	5.9	24.5	7.3	7.0	6.3	13.5	12.6	18.1	1695	9.7
47 TO 51	3.2	11.4	45.5	12.4	3.9	1.2	4.1	2.7	15.5	987	5.4
42 TO 46	1.2	18.5	65.7	5.1	2.0	.4	1.2	.4	5.5	254	1.5
37 TO 41		31.3	60.4	2.1					6.3	48	.3
32 TO 36		16.7	66.7						16.7	6	.0
27 TO 31			100.0							1	.0
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-16 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	4.0	3.0	9.5	2.9	6.3	13.8	30.8	20.1	9.6	17419	100.0

NAVWEASERYCOM



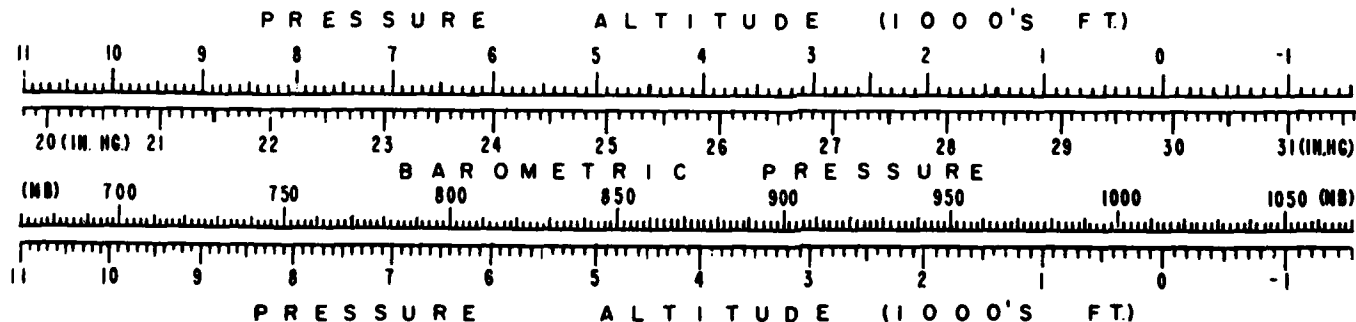
NOCN, Federal Building
Asheville, N. C.

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 3-hourly 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 1963 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

MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

23115 IMPERIAL BEACH, CALIFORNIA 73-82

STATION		STATION NAME												YEARS
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN S. D. TOTAL OBS	1020.7 4.634 8			1018.1 3	1013.9 2		1013.3 1	1012.8 1	1011.6 1		1020.1 3.266 5	1019.7 2	1018.0 4.174 19
04	MEAN S. D. TOTAL OBS	1020.8 4.158 5	1017.9 1		1018.4 1	1013.2 2			1013.3 1	1011.9 2		1019.5 2.983 4	1019.8 1	1017.9 4.339 19
07	MEAN S. D. TOTAL OBS	1018.5 3.689 249	1018.6 3.737 243	1016.8 3.783 275	1016.6 2.668 270	1014.9 2.394 278	1013.9 2.193 281	1014.1 2.011 283	1013.9 2.305 289	1013.3 2.520 272	1015.8 2.316 274	1017.7 3.332 249	1018.7 3.604 258	1016.0 3.509 3245
10	MEAN S. D. TOTAL OBS	1019.7 3.655 288	1019.5 3.737 241	1017.6 3.694 292	1017.2 2.608 281	1015.3 2.333 278	1014.3 2.207 283	1014.5 2.005 285	1014.4 2.311 289	1013.8 2.543 272	1016.3 2.298 281	1018.3 3.372 264	1019.7 3.678 268	1016.7 3.645 3338
13	MEAN S. D. TOTAL OBS	1017.6 3.486 288	1017.9 3.618 241	1016.6 3.561 292	1016.5 2.495 281	1014.9 2.313 278	1014.0 2.200 282	1014.1 1.979 285	1013.7 2.327 289	1012.8 2.565 272	1014.8 2.234 281	1016.5 3.265 264	1017.7 3.531 268	1015.6 3.301 3337
16	MEAN S. D. TOTAL OBS	1017.2 3.547 280	1017.2 3.642 258	1015.6 3.440 283	1015.6 2.430 249	1014.1 2.204 242	1013.2 2.176 288	1013.1 1.984 238	1012.7 2.323 288	1011.8 2.463 235	1014.3 2.279 245	1016.0 3.264 264	1017.2 3.492 247	1014.9 3.389 3081
19	MEAN S. D. TOTAL OBS	1017.9 3.638 233	1017.9 3.724 215	1016.0 3.900 288	1015.7 2.428 246	1014.3 2.232 231	1013.1 2.190 238	1013.0 2.027 227	1012.6 2.292 280	1012.2 2.413 224	1014.9 2.272 224	1016.8 3.208 216	1017.9 3.660 212	1015.2 3.510 2758
22	MEAN S. D. TOTAL OBS	1018.4 3.679 104	1017.3 4.271 95	1016.8 3.679 131	1016.3 2.268 180	1014.8 2.327 135	1014.1 2.052 187	1013.7 1.895 153	1013.0 2.322 155	1012.6 2.332 142	1015.4 2.224 141	1017.5 3.426 141	1018.1 3.972 126	1015.5 3.462 1622
ALL HOURS	MEAN S. D. TOTAL OBS	1018.2 3.714 1865	1018.2 3.813 1332	1016.6 3.659 1521	1016.4 2.569 1891	1014.7 2.348 1886	1013.8 2.225 1801	1013.8 2.067 1868	1013.5 2.404 1522	1012.8 2.582 1822	1015.3 2.374 1650	1017.1 3.404 1809	1018.3 3.731 1902	1015.7 3.527 17619

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MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

93115 IMPERIAL BEACH, CALIFORNIA

73-92

STATION		STATION NAME												YEARS
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN S. D. TOTAL OBS	30.115 .135 4			30.037	29.910		29.900	29.880	29.850		30.094	30.045	30.035 .121 19
	MEAN S. D. TOTAL OBS	30.118 .123 5	30.030		30.050	29.890		29.900	29.855			30.080	30.090	30.033 .129 19
	MEAN S. D. TOTAL OBS	30.048 .109 249	30.052 .111 243	29.998 .112 275	29.994 .079 270	29.942 .072 278	29.914 .065 283	29.920 .060 283	29.915 .069 289	29.895 .075 272	29.968 .070 276	30.025 .099 249	30.056 .110 258	29.975 .104 3245
	MEAN S. D. TOTAL OBS	30.046 .108 244	30.080 .111 241	30.021 .109 292	30.011 .077 281	29.956 .071 278	29.925 .066 283	29.932 .060 285	29.928 .069 289	29.909 .077 272	29.984 .069 281	30.044 .100 248	30.085 .109 248	29.996 .128 3338
12	MEAN S. D. TOTAL OBS	30.021 .103 244	30.033 .107 241	29.991 .106 292	29.989 .074 281	29.940 .069 278	29.916 .066 282	29.918 .059 285	29.909 .069 289	29.880 .076 272	29.941 .067 281	29.990 .097 249	30.025 .105 248	29.963 .098 3337
12	MEAN S. D. TOTAL OBS	30.010 .105 279	30.010 .108 254	29.964 .102 283	29.963 .072 249	29.919 .066 242	29.891 .066 248	29.888 .059 238	29.878 .069 258	29.852 .073 235	29.925 .068 245	29.976 .097 249	30.012 .103 247	29.943 .100 3080
19	MEAN S. D. TOTAL OBS	30.030 .108 233	30.030 .110 215	29.976 .103 248	29.965 .072 246	29.925 .067 231	29.889 .066 238	29.887 .060 227	29.876 .068 240	29.863 .072 224	29.944 .068 226	29.999 .096 216	30.033 .109 212	29.950 .124 2758
22	MEAN S. D. TOTAL OBS	30.046 .108 106	30.013 .126 95	29.997 .109 131	29.984 .068 140	29.940 .070 135	29.919 .063 187	29.907 .056 183	29.887 .070 155	29.874 .070 142	29.958 .067 141	30.020 .102 141	30.038 .118 124	29.960 .103 1622
ALL HOURS	MEAN S. D. TOTAL OBS	30.041 .110 1468	30.039 .113 1332	29.991 .108 1521	29.985 .076 1491	29.938 .070 1486	29.909 .067 1491	29.911 .062 1468	29.901 .072 1522	29.881 .077 1422	29.954 .071 1450	30.009 .101 1409	30.042 .111 1402	29.966 .104 17418

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