USAFETAC/DS-90/233

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SURFACE OBSERVATION CLIMATIC SUMMARIES

FOR

SPANGDAHLEM AB, GERMANY

Prepared by

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

NOVEMBER 1990

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13. ABSTRACT: SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) PROVIDE STATISTICAL CLIMATIC SUMMARIES OF SURFACE WEATHER OBSERVATIONS TAKEN AND RECORDED AT SPECIFIED USAF, CIVILIAN AND FOREIGN OBSERVING STATIONS. HOURLY OBSERVATIONS ARE SUMMARIZED FROM A 10-YEAR PERIOD OF RECORD (POR). "SUMMARY OF DAY" (SOD) INFORMATION IS SUMMARIZED FROM ALL AVAILABLE DATA IN THE OL-A, USAFETAC CLIMATIC DATABASE.

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PREFACE

EFFECTIVE 1 JULY 1988, THE SURFACE OBSERVATION CLIMATIC SUMMARIES (SOCS) REPLACED TWO OTHER USAFETAC PRODUCTS OF LONG STANDING: THE RUSSWO (REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS) AND LISOCS (LIMITED SURFACE OBSERVATION CLIMATIC SUMMARY). RUSSWOS AND LISOCS NOW IN EXISTENCE WILL CONTINUE TO BE USED UNTIL THEY ARE EVENTUALLY REPLACED BY SOCS.

THIS PRODUCT HAS BEEN ISSUED IN OTHER FORMS UNDER SEVERAL OTHER NAMES. IT WAS INTRODUCED IN THE EARLY 1940'S AS THE "SFCSUM," OR "SURFACE SUMMARY." THE ORIGINAL "USSWO," OR "UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS," DEBUTED IN 1946. THE USSWO GRADUALLY EVOLVED INTO THE "RUSSWO" AND THE "LISOCS." IT FINALLY BECAME THE NEW "SURFACE OBSERVATION CLIMATIC SUMMARIES" OR "SOCS" IN JULY 1988.

THE SOCS (LIKE ITS PREDECESSORS) IS PREPARED BY USAFETAC'S OPERATING LOCATION A AT ASHEVILLE, NC 28801-2723. HERE, CLIMATOLOGISTS USE STATE-OF-THE-ART COMPUTER TECHNOLOGY TO SUMMARIZE WEATHER OBSERVATIONS COLLECTED FROM SELECTED MILITARY, CIVILIAN, AND FOREIGN REPORTING STATIONS. SUMMARIES ARE PREPARED FROM DATA THAT HAS BEEN COLLECTED, QUALITY-CONTROLLED, AND STORED IN OL-A'S WORLDWIDE SURFACE WEATHER OBSERVATION DATABASE.

ALTHOUGH PREVIOUS VERSIONS OF THIS PRODUCT ONLY OFFERED SIX PARTS, SOCS PROVIDES EIGHT (A-H). THE ADDITIONS ARE THE CROSSWIND AND HEATING-COOLING DEGREE DAY SUMMARIES. PRECEDING EACH PART IS A BRIEF DISCUSSION OF THAT PARTICULAR PART, A DESCRIPTION OF THE DATA, AND AN EXPLANATION OF HOW THE DATA IS PRESENTED.

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INTRODUCTION

STATION PERIOD OF RECORD.

HOURLY OBSERVATIONS: JAN 80 - DEC 89 (AIRWAYS).

SUMMARY OF DAY DATA: MAY 53 - FEB 90 (FULL TIME).

HOURS SUMMARIZED: 0000 LST THROUGH 2300 LST.

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

TERMS EXPLAINED:

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

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

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

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

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

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

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

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

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

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

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

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

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

ABBREVIATIONS USED:

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

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

* UTC REPLACED GMT ON 1 AUGUST 1988

NOTE: OL-A/USAFETAC DERIVES STATION LATITUDE/LONGITUDE COORDINATES AND AIRFIELD ELEVATION DATA FROM THE AWS MASTER STATION CATALOG. THIS INFORMATION IS PRESENTED ON THE AWS CLIMATIC BRIEF FOR EACH STATION. THE STATION DATA MAY DIFFER FROM INFORMATION CONTAINED IN THE SOCS STATION HISTORY (DATA SUPPLIED BY AWS UNITS). THE STATION DATA MAY ALSO VARY FROM DATA PRESENTED IN DOD FLIGHT INFORMATION PUBLICATIONS (FLIP).

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	FLD ELEV (FT)	CALL SIGN	WMO NMBR
106070	SPANGDAHLEM AB, GERMANY	N 49 59	E 006 42	1196	EDAD	10607

STATION LOCATION AND INSTRUMENTATION HISTORY

Nmbr of Loc	GEOGRAPHICAL LOCATION & NAME	Type of Station	At This Location From	At This Location To	LATITUDE	LONGITUDE	Elev Above MSL FLD (FT)	Elev Above MSL BARO (FT)	OBS PER DAY
1	Spangdahlem AB, Germany	AB	May 53	Mar 55	N 49 58	E 006 42	1187	1158	24
2	Same	Same	Apr 55	Feb 56	Same	Same	Same	1168	24
3	Same	Same	Mar 56	Feb 58	Same	Same	Same	1223	24
4	Same	Same	Mar 58	Jun 59	Same	Same	Same	1170	24
5	Same	Same	Jul 59	Oct 68	Same	Same	1196	1169	24
6	Same	Same	Nov 68	Jan 69	Same	Same	Same	Same	12
7	Same	Same	Feb 69	Mar 69	Same	Same	Same	Same	24
8	Same	Same	Apr 69	Jun 69	Same	Same	Same	Same	14
9	Same	Same	Jul 69	Nov 69	Same	Same	Same	Same	21
10	Same	Same	Dec 69	Jun 71	Same	Same	Same	Same	24
11	Same	Same	Jul 71	Oct 71	Same	Same	Same	Same	10
12	Same	Same	Nov 71	Dec 71	Same	Same	Same	Same	24
13	Same	Same	Jan 72	Jan 79	N 49 59	Same	Same	1188	24
14	Same	Same	Feb 79	Jan 88	Same	Same	Same	Same	24

Nmbr of Loc	Date of Change	SURFACE WIND EQUIPMENT INFORMATION: LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
1	May 53	Atop BaseOps bldg	AN/GMQ-1	ML204B	68 ft	
2	Apr 55	On roof of rnwy ROS	Same	Same	21 ft	
3	Mar 56	Atop remote ROS	Same	Same	25 ft	
4	Mar 58	Atop control tower	Same	Same	90 ft	
5	Jul 59	On platform atop ROS	Same	Same	20 ft	
6	Mar 61	On roof of ROS	Same	Same	50 ft	
7	Mar 62	500' fm ctrlin,1000'fm td pt of rnwy 23	AN/GMQ-11	RO-2	13 ft	
8	Oct 63	1. 500' fm ctr,1000' fm td pt of rnwy 23	AN/GMQ-20	RO-362	Same	
		2. 500' fm ctr,400' fm td pt of rnwy 05	Same		Same	
9	Feb 78	1. Same	Same	Same	7 ft	
		2. Same			22 ft	
10	Jan 88	1. Same	Same	Same	7 ft	
		2. Same	Same		22 ft	

```
PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT              AAAAAA
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT             AAAAAAAA
PP      PP     AA     AA    RR     RR        TT                 AA     AA
PP      PP     AA     AA    RR     RR        TT                 AA     AA
PPPPPPPPP      AA     AA    RRRRRRRRR        TT                 AA     AA
PPPPPPPP       AAAAAAAAAA   RRRRRRRR         TT                 AAAAAAAAAA
PP             AAAAAAAAAA   RR    RR         TT                 AAAAAAAAAA
PP             AA     AA    RR     RR        TT                 AA     AA
PP             AA     AA    RR      RR       TT                 AA     AA
PP             AA     AA    RR       RR      TT                 AA     AA
```

A - 1 - 1

PART A

ATMOSPHERIC PHENOMENA SUMMARIES

THIS PART SUMMARIZES SPECIFIED ATMOSPHERIC PHENOMENA IN CATEGORIES AS FOLLOWS:

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

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

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

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

HAIL: ALL OCCURRENCES OF HAIL.

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

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

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

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

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

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

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

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY.

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

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

SPECIFIED PHENOMENA--PERCENT OCCURRENCE FREQUENCY (POF).
THIS TABLE IS THE ONLY ONE IN PART A THAT IS PRODUCED FROM SUMMARY OF DAY DATA. DATA IS SUMMARIZED MONTHLY AND ANNUALLY FOR ALL YEARS COMBINED.

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

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

NOTE 1: REPORTING PRACTICES HAVE CHANGED WITH TIME. METAR AND SYNOPTIC REPORTING STATIONS RECORD (ON AWS FORMS 10/10A) AND TRANSMIT LONGLINE ONLY THE HIGHEST ORDER ATMOSPHERIC PHENOMENA THAT AFFECTS VISIBILITY. METAR STATIONS STARTED THIS PROCEDURE IN JANUARY 1968, BUT SYNOPTIC STATIONS ALWAYS DID IT THAT WAY. IN JANUARY 1970, METAR STATIONS STARTED RECORDING ALL ATMOSPHERIC PHENOMENA THAT AFFECTED VISIBILITY, BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE RECORDED OBSERVATION INCLUDED RAIN, FOG AND HAZE, ONLY THE RAIN WAS TRANSMITTED. BECAUSE OF THESE PROCEDURES, THE USAFETAC DATABASE WOULD SHOW ONLY RAIN AS AN OBSTRUCTION. THEREFORE, THE OBSTRUCTION TO VISION (AND TO A LESSER EXTENT, PRECIPITATION) SUMMARIES FOR METAR AND SYNOPTIC STATIONS ARE HIGHLY QUESTIONABLE.

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

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

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

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		17.7	1.0	15.5		34.1	28.7	1.7			64.6	917
03-05		20.4	2.8	12.8		36.0	30.8	.8	.1		67.8	921
06-08		20.6	3.5	12.3		36.4	29.7	1.3			67.3	924
09-11		18.5	2.4	14.2		35.1	31.2	3.1			69.4	924
12-14		17.1	1.1	15.8		34.0	23.9	7.8			65.7	924
15-17		17.3	.3	13.2		30.8	19.9	10.2			60.9	924
18-20	.1	18.4	.3	12.1		30.8	21.1	7.4			59.4	918
21-23		19.7	.7	12.9		33.2	22.5	5.3			61.1	918
ALL HOURS	.0	18.7	1.5	13.6		33.8	26.0	4.7	.0		64.5	7370

MONTH: FEB

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		12.0	.1	10.5		22.6	25.4	9.1			57.1	849
03-05		11.0		11.5	.1	22.6	28.2	9.3			60.1	849
06-08		12.0	.1	11.4		23.6	32.4	9.0			64.9	849
09-11		11.4	.4	14.7		26.5	29.4	14.6			70.6	849
12-14		13.4	.4	11.7		25.4	17.1	19.1			61.6	849
15-17		11.4	.2	9.0		20.6	13.1	19.0			52.7	849
18-20		11.3		11.0		22.3	15.3	15.7			53.2	849
21-23		12.6	.4	10.1		23.1	19.0	10.4			52.4	849
ALL HOURS		11.9	.2	11.2	.0	23.3	22.5	13.3			59.1	6792

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		17.2		5.1		22.3	18.6	6.1			47.0	930
03-05		18.1		7.3		25.4	25.9	6.0			57.3	930
06-08		20.3		8.1		28.4	34.8	5.8			69.0	930
09-11		19.5		8.0		27.4	26.2	12.3			65.9	930
12-14		18.8		5.2		24.0	9.6	16.8			50.3	930
15-17	.1	18.5		4.4		22.9	4.5	15.3			42.7	930
18-20	.3	19.8	.1	3.1		23.0	6.5	12.4			41.9	929
21-23		16.5	.3	2.7		19.5	10.9	6.5			36.8	930
ALL HOURS	.1	18.6	.1	5.5		24.1	17.1	10.1			51.4	7439

MONTH: APR

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.1	12.8		2.7		15.4	12.3	2.8			30.6	900
03-05		15.7		4.2		19.9	20.7	2.2			42.8	900
06-08		14.9		4.1		19.0	31.3	5.1			55.4	900
09-11		13.6		4.6		18.1	13.1	9.8			41.0	900
12-14	.2	15.2		4.2	.1	19.6	4.0	6.1			29.7	900
15-17	.1	15.9		3.6		19.4	3.8	5.6			28.8	900
18-20	.4	15.7		3.0		18.7	4.8	5.1			28.6	900
21-23	.3	13.7		2.1		15.8	7.0	2.8			25.6	900
ALL HOURS	.2	14.7		3.6	.0	18.2	12.1	4.9			35.3	7200

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.1	12.3				12.3	12.8	1.0			26.0	930
03-05	.1	12.7				12.7	24.3	.8			37.7	930
06-08	.1	15.7				15.7	27.8	3.2			46.8	930
09-11	.1	14.3				14.3	8.9	6.7			29.9	930
12-14	.5	14.2				14.2	3.0	3.5			20.8	930
15-17	1.4	14.6				14.6	1.8	2.4			18.8	930
18-20	2.5	15.1			.1	15.2	2.0	2.5			19.7	930
21-23	.8	12.9				12.9	4.9	1.0			18.8	930
ALL HOURS	.7	14.0			.0	14.0	10.7	2.6			27.3	7440

MONTH: JUN

00-02	1.7	10.2				10.2	12.3	1.3			23.9	900
03-05	.9	13.7				13.7	30.8	1.4			45.9	900
06-08		11.8				11.8	33.2	4.9			49.9	900
09-11	.3	11.7				11.7	10.7	5.7			28.0	900
12-14	1.1	12.6				12.6	1.4	4.3			18.3	900
15-17	2.7	14.0				14.0	1.3	3.9			19.2	900
18-20	2.2	12.3				12.3	2.3	4.0			18.7	900
21-23	1.9	10.4				10.4	5.0	3.1			18.6	900
ALL HOURS	1.3	12.1				12.1	12.1	3.6			27.8	7200

A - 2 - 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.7	8.9				8.9	10.5	1.9			21.3	840
03-05	.5	9.9				9.9	26.8	.6			37.3	840
06-08	.6	12.7				12.7	28.8	3.6			45.1	858
09-11	.2	10.5				10.5	7.9	7.0			25.4	858
12-14	.9	10.8				10.8	.5	4.2			15.5	858
15-17	1.5	8.6				8.6	.2	2.2			11.1	858
18-20	2.3	7.9				7.9	1.6	3.7			13.3	856
21-23	1.3	8.0				8.0	4.1	3.5			15.7	849
ALL HOURS	1.0	9.7				9.7	10.0	3.4			23.1	6817

MONTH: AUG

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.2	7.4				7.4	15.7	1.6			24.6	837
03-05	1.0	9.0				9.0	27.2	1.6			37.8	837
06-08	.1	9.3				9.3	37.6	4.2			51.1	837
09-11	.2	9.0				9.0	14.2	9.4			32.6	837
12-14	.5	6.9				6.9	3.6	5.1			15.7	837
15-17	.5	7.9				7.9	2.3	4.3			14.5	837
18-20	.8	8.8				8.8	3.2	2.7			14.8	837
21-23	1.2	7.8				7.8	5.9	1.4			15.1	837
ALL HOURS	.6	8.3				8.3	13.7	3.8			25.8	6696

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02	.5	6.5				6.5	23.0	.7			30.2	810
03-05	.1	8.2				8.2	32.8	.1			41.1	815
06-08	.4	9.1				9.1	47.0	1.6			57.7	823
09-11	.2	9.9				9.9	22.5	12.0			44.5	825
12-14	.4	10.7				10.7	4.0	13.1			27.8	825
15-17	.9	12.1				12.1	1.3	8.0			21.4	821
18-20	1.4	12.6				12.6	3.3	6.3			22.2	810
21-23	.4	9.8				9.8	10.7	2.2			22.7	810
ALL HOURS	.5	9.9				9.9	18.1	5.5			33.5	6539

MONTH: OCT

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		14.4				14.4	32.2	.3		.1	47.0	905
03-05	.1	18.0				18.0	38.2				56.3	910
06-08		21.9				21.9	46.4	.2			68.6	926
09-11		19.2		.1		19.4	39.1	4.7			63.2	930
12-14		17.3				17.3	16.1	10.1			43.5	930
15-17		16.7				16.7	9.4	11.0			37.0	930
18-20		15.1				15.1	14.3	6.8			36.1	930
21-23		15.6				15.6	21.4	1.1			38.1	928
ALL HOURS	.0	17.3		.0		17.3	27.1	4.3		.0	48.7	7389

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF HOURS WITH VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		16.2	1.1	3.4		20.8	28.7	.6			50.1	870
03-05		16.5	.1	3.2		19.9	35.6	.3			55.8	871
06-08		19.2	.3	4.8		24.3	38.0	.5			62.7	877
09-11		16.3	.2	5.0		21.5	39.2	4.0			64.6	885
12-14		14.8		5.3		20.1	26.6	5.5			52.2	885
15-17		14.7		5.2		19.9	20.0	7.7			47.6	885
18-20	.1	15.6	.2	4.9	.1	20.9	21.2	1.5			43.6	871
21-23	.1	17.5	1.0	4.3		22.8	23.9	.3			47.1	867
ALL HOURS	.0	16.3	.4	4.5	.0	21.3	29.2	2.6			53.0	7011

MONTH: DEC

HOURS (LST)	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
00-02		19.8	2.3	6.5		28.5	26.7	.5			55.7	880
03-05		22.6	2.0	6.1		30.7	28.8	.7			60.2	886
06-08		20.4	1.1	7.7		29.3	30.7	.3			60.3	892
09-11	.1	19.3	1.1	7.4		27.8	36.2	2.2			66.2	903
12-14		18.1	.1	9.0		27.2	30.4	4.8			62.4	904
15-17		22.8	.8	7.6		31.1	25.8	5.1			62.0	900
18-20	.1	23.9	1.0	5.4		30.3	24.9	1.5			56.8	870
21-23		21.8	1.7	5.7		29.3	25.6	1.0			56.0	870
ALL HOURS	.0	21.1	1.3	6.9		29.3	28.7	2.0			60.0	7105

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF VARIOUS ATMOSPHERIC PHENOMENA
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 HOURS: ALL

MONTH	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN	.0	18.7	1.5	13.6		33.8	26.0	4.7	.0		64.5	7370
FEB		11.9	.2	11.2	.0	23.3	22.5	13.3			59.1	6792
MAR	.1	18.6	.1	5.5		24.1	17.1	10.1			51.4	7439
APR	.2	14.7		3.6	.0	18.2	12.1	4.9			35.3	7200
MAY	.7	14.0			.0	14.0	10.7	2.6			27.3	7440
JUN	1.3	12.1				12.1	12.1	3.6			27.8	7200
JUL	1.0	9.7				9.7	10.0	3.4			23.1	6817
AUG	.6	8.3				8.3	13.7	3.8			25.8	6696
SEP	.5	9.9				9.9	18.1	5.5			33.5	6539
OCT	.0	17.3		.0		17.3	27.1	4.3		.0	48.7	7389
NOV	.0	16.3	.4	4.5	.0	21.3	29.2	2.6			53.0	7011
DEC	.0	21.1	1.3	6.9		29.3	28.7	2.0			60.0	7105
ANNUAL	.4	14.5	.3	3.8	.0	18.6	19.0	5.1	.0	.0	42.6	84998

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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

MONTH	TSTMS	LIQUID PRECIP	FREEZ PRECIP	FROZEN PRECIP	HAIL	ALL PRECIP	FOG	SMOKE &/OR HAZE	BLOWING SNOW	DUST &/OR SAND	ALL OBST TO VSN	TOTAL NO. OF OBS
JAN	.9	54.5	7.5	43.4	.6	76.0	75.2	45.5	.6		96.4	1137
FEB	.7	46.9	3.1	38.3	.7	66.7	68.1	55.5	.3		94.2	1045
MAR	1.9	54.2	.3	27.1	1.3	65.8	60.9	56.6	.1		93.7	1116
APR	3.7	56.5	.1	15.5	2.6	61.0	52.4	48.3			84.5	1052
MAY	12.3	62.1		1.3	2.1	62.1	50.4	41.0		.1	82.2	1120
JUN	15.8	60.4		.2	1.6	60.4	56.9	44.3			83.3	1094
JUL	14.6	53.1			.7	53.1	54.8	44.7			80.4	1104
AUG	12.2	54.5			.4	54.5	61.4	44.2			83.1	1104
SEP	6.7	50.1		.1	.3	50.1	70.3	53.3			88.2	1065
OCT	1.5	54.9		1.4	.2	55.2	77.1	50.2			92.5	1131
NOV	.7	62.2	2.5	18.0	.1	69.0	75.9	43.1			95.6	1075
DEC	.5	60.2	7.2	33.1	.5	73.4	75.8	37.9			95.7	1129
ANNUAL	6.0	55.9	1.7	14.9	.9	62.3	65.0	47.0	.1	.0	89.2	13172

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF THUNDERSTORMS
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
00-02				.1	.1	1.7	.7	.2	.5			
03-05					.1	.9	.5	1.0	.1	.1		
06-08					.1		.6	.1	.4			
09-11					.1	.3	.2	.2	.2			.1
12-14				.2	.5	1.1	.9	.5	.4			
15-17			.1	.1	1.4	2.7	1.5	.5	.9			
18-20	.1		.3	.4	2.5	2.2	2.3	.8	1.4		.1	.1
21-23				.3	.8	1.9	1.3	1.2	.4		.1	
ALL HOURS	.0		.1	.2	.7	1.3	1.0	.6	.5	.0	.0	.0
TOTAL OBS	7370	6792	7439	7200	7440	7200	6817	6696	6539	7389	7011	7105

A - 4 - 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: ALL

PHENOMENA	CALM	VARIABLE	300 - 029	030 - 079	080 - 139	140 - 209	210 - 299	NO OF OBS
TSTMS							100.0	1
LIQUID PRECIP	4.1	.4	1.9	.5	1.1	7.0	85.0	1379
FREEZING PRECIP	22.5		3.6	7.2	7.2	.9	58.6	111
FROZEN PRECIP	6.2	1.3	6.9	19.6	11.2	3.1	51.7	900
FOG	25.5	.1	3.2	14.3	20.4	2.0	34.6	1915
FOG WITH VIS GE 1/2 MILES	23.4	.1	2.6	15.9	21.4	2.3	34.2	1452
TOTAL OBS	944	34	443	900	823	285	3941	7370

MONTH: FEB HOURS: ALL

TSTMS								
LIQUID PRECIP	3.3	1.9	4.0	4.2	6.4	6.4	73.8	809
FREEZING PRECIP				15.4	38.5		46.2	13
FROZEN PRECIP	15.9	1.0	19.2	32.2	5.8	1.7	24.3	709
FOG	22.8		6.2	21.5	18.3	2.3	28.9	1527
FOG WITH VIS GE 1/2 MILES	22.0		5.9	25.9	21.1	2.1	22.9	1218
TOTAL OBS	878	52	533	1598	1366	194	2171	6792

A - 5 - 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: ALL

PHENOMENA	CALM	VARIABLE	300 - 029	030 - 079	080 - 139	140 - 209	210 - 299	NO OF OBS
TSTMS			50.0				50.0	4
LIQUID PRECIP	4.1	.6	6.7	1.4	3.4	10.9	72.9	1380
FREEZING PRECIP							100.0	4
FROZEN PRECIP	5.2	.6	14.4	3.7	6.6	4.0	65.5	348
FOG	28.7	.2	8.8	20.2	10.8	1.9	29.4	1284
FOG WITH VIS GE 1/2 MILES	28.3	.2	8.7	20.0	11.0	2.1	29.8	1202
TOTAL OBS	1113	53	702	864	790	460	3457	7439

MONTH: APR HOURS: ALL

PHENOMENA	CALM	VARIABLE	300 - 029	030 - 079	080 - 139	140 - 209	210 - 299	NO OF OBS
TSTMS				9.1		18.2	72.7	11
LIQUID PRECIP	8.9	1.2	15.0	8.6	4.7	10.2	51.4	1048
FREEZING PRECIP								
FROZEN PRECIP	12.2	1.0	33.7	9.7	2.6	3.6	37.2	196
FOG	29.8	.2	15.9	19.8	10.4	1.4	22.5	873
FOG WITH VIS GE 1/2 MILES	28.7	.2	16.2	20.6	10.3	1.4	22.5	832
TOTAL OBS	1179	72	1213	1298	955	481	2002	7200

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: ALL

PHENOMENA	CALM	VARIABLE	300 - 029	030 - 079	080 - 139	140 - 209	210 - 299	NO OF OBS
TSTMS	1.9		13.5	11.5	17.3	17.3	38.5	52
LIQUID PRECIP	12.5	.8	13.9	12.2	5.2	7.2	48.2	1006
FREEZING PRECIP								
FROZEN PRECIP								
FOG	32.4	.1	9.4	14.6	10.7	3.8	29.1	797
FOG WITH VIS GE 1/2 MILES	32.2	.1	9.7	14.6	9.8	3.8	29.8	765
TOTAL OBS	1491	48	884	1309	990	455	2263	7440

MONTH: JUN HOURS: ALL

TSTMS	9.3	1.0	27.8	7.2	9.3	7.2	38.1	97
LIQUID PRECIP	9.7	2.1	13.6	5.8	3.0	4.0	61.8	824
FREEZING PRECIP								
FROZEN PRECIP								
FOG	40.0	.2	8.8	10.0	5.7	2.5	32.7	874
FOG WITH VIS GE 1/2 MILES	37.8	.2	9.0	10.6	5.9	2.5	34.0	814
TOTAL OBS	1274	128	1026	1005	542	244	2981	7200

A - 5 - 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: ALL

PHENOMENA	CALM	VARIABLE	300 - 029	030 - 079	080 - 139	140 - 209	210 - 299	NO OF OBS
TSTMS	7.2		14.5	11.6	4.3	11.6	50.7	69
LIQUID PRECIP	5.6	2.9	9.4	4.2	5.0	6.5	66.5	626
FREEZING PRECIP								
FROZEN PRECIP								
FOG	39.2	.1	14.9	9.2	6.0	1.5	29.1	684
FOG WITH VIS GE 1/2 MILES	38.4	.2	14.0	9.7	6.3	1.5	29.8	648
TOTAL OBS	1274	82	1011	784	692	332	2642	6817

MONTH: AUG HOURS: ALL

TSTMS	15.8		13.2	13.2	2.6	5.3	50.0	38
LIQUID PRECIP	8.7	.6	13.3	5.5	6.1	4.4	61.4	526
FREEZING PRECIP								
FROZEN PRECIP								
FOG	42.1	.1	9.8	7.6	8.6	2.0	29.8	927
FOG WITH VIS GE 1/2 MILES	40.8	.1	10.3	7.3	8.8	2.1	30.5	825
TOTAL OBS	1519	52	843	580	630	276	2796	6696

A - 5 - 4

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: ALL

PHENOMENA	CALM	VARIABLE	300 - 029	030 - 079	080 - 139	140 - 209	210 - 299	NO OF OBS
TSTMS	11.8		14.7	8.8	8.8	11.8	44.1	34
LIQUID PRECIP	6.4	.8	7.7	11.1	5.0	7.9	61.2	623
FREEZING PRECIP								
FROZEN PRECIP								
FOG	44.2		5.6	13.5	11.8	1.4	23.5	1184
FOG WITH VIS GE 1/2 MILES	44.3		4.5	15.4	11.0	1.5	23.3	1008
TOTAL OBS	1535	40	541	778	747	348	2550	6539

MONTH: OCT HOURS: ALL

TSTMS							100.0	1
LIQUID PRECIP	4.8	.5	4.3	4.1	8.3	11.5	66.4	1278
FREEZING PRECIP								
FROZEN PRECIP								
FOG	30.5	.0	4.8	17.8	16.7	2.3	27.8	2002
FOG WITH VIS GE 1/2 MILES	28.7	.1	4.7	19.3	17.2	2.6	27.4	1660
TOTAL OBS	1267	42	458	920	988	434	3280	7389

A - 5 - 5

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: ALL

PHENOMENA	CALM	VARIABLE	300 - 029	030 - 079	080 - 139	140 - 209	210 - 299	NO OF OBS
TSTMS							100.0	2
LIQUID PRECIP	5.9	.9	5.1	1.2	4.5	8.2	74.1	1145
FREEZING PRECIP	48.1		14.8			7.4	29.6	27
FROZEN PRECIP	11.3	.7	13.7	24.6	5.8	1.7	42.3	293
FOG	33.6	.1	4.5	13.5	13.1	3.2	32.1	2044
FOG WITH VIS GE 1/2 MILES	27.9	.1	4.6	16.1	13.7	3.5	34.1	1560
TOTAL OBS	1252	33	457	994	886	329	3060	7011

MONTH: DEC HOURS: ALL

TSTMS							100.0	2
LIQUID PRECIP	7.6	.7	2.8	2.5	4.5	4.2	77.7	1495
FREEZING PRECIP	28.9				22.2	4.4	44.4	90
FROZEN PRECIP	8.1	1.7	8.8	6.6	17.6	4.9	52.2	408
FOG	22.2		4.8	8.4	13.9	4.4	46.3	2038
FOG WITH VIS GE 1/2 MILES	19.4		4.7	10.7	15.2	4.7	45.3	1482
TOTAL OBS	1048	27	451	622	766	267	3923	7104

A - 5 - 6

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTHS: ALL

PHENOMENA	CALM	VARIABLE	300 - 029	030 - 079	080 - 139	140 - 209	210 - 299	NO OF OBS
TSTMS	8.0	.3	18.0	9.6	8.0	10.3	45.7	311
LIQUID PRECIP	6.6	1.0	7.3	4.5	4.6	7.6	68.3	12139
FREEZING PRECIP	26.1		3.3	4.1	13.5	2.9	50.2	245
FROZEN PRECIP	9.7	1.1	13.7	18.7	9.1	3.0	44.7	2854
FOG	31.0	.1	6.8	14.4	13.5	2.5	31.6	16149
FOG WITH VIS GE 1/2 MILES	29.5	.1	7.0	16.1	13.8	2.6	30.9	13466
TOTAL OBS	14774	663	8562	11652	10175	4105	35066	84997

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT          BBBBBBBBB
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT          BBBBBBBBBB
PP      PP     AA     AA    RR      RR        TT              BB      BB
PP      PP     AA     AA    RR      RR        TT              BB      BB
PPPPPPPPP      AA     AA    RRRRRRRRR         TT              BBBBBBBBBB
PPPPPPPP       AAAAAAAAAA   RRRRRRRR          TT              BBBBBBBBBB
PP             AAAAAAAAAA   RR    RR          TT              BB      BB
PP             AA     AA    RR     RR         TT              BB      BB
PP             AA     AA    RR      RR        TT              BBBBBBBBBB
PP             AA     AA    RR       RR       TT              BBBBBBBBB
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PART B

PRECIPITATION, SNOWFALL, SNOW DEPTH SUMMARIES

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

PERCENT OCCURRENCE FREQUENCY.

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

MONTHLY TOTALS.

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

DAILY EXTREMES.

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

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

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

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

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

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

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

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

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

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

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

CONVERSIONS:

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

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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	23.2	32.2	33.9	38.6	37.4	40.1	46.8	44.3	48.2	43.5	31.5	25.7	37.0
TRACE	19.8	20.5	19.6	19.8	17.1	15.6	12.1	13.4	14.2	15.2	19.4	22.0	17.4
.01	6.5	5.5	5.0	3.7	5.4	4.5	4.8	5.7	4.5	4.7	5.6	6.7	5.2
.02-.05	15.4	11.5	13.0	13.7	11.5	9.6	9.8	10.0	8.7	11.4	11.9	12.8	11.6
.06-.10	11.1	9.4	8.2	8.1	7.1	7.8	6.3	5.4	6.0	6.9	8.8	9.1	7.8
.11-.25	15.5	11.6	13.2	10.5	10.6	11.4	9.9	11.2	9.5	9.8	12.5	13.5	11.6
.26-.50	5.5	7.3	5.8	4.1	7.6	6.9	5.9	7.0	5.4	5.6	7.2	7.2	6.3
.51-1.00	2.6	2.1	1.2	1.3	2.7	3.3	3.5	2.4	3.1	2.4	2.6	2.3	2.5
1.01-2.50	.3	.1	.2	.2	.5	.8	.8	.6	.5	.5	.4	.7	.5
2.51-5.00											.1		.0
5.01-10.00													
10.01-20.00													
OVER 20.00													
DAYS WITH MEAS AMTS	56.9	47.4	46.5	41.6	45.6	44.3	41.1	42.3	37.6	41.3	49.1	52.3	45.6
TOTAL NO. OF OBSERVATIONS	1140	1045	1116	1062	1102	1078	1108	1097	1055	1117	1080	1124	13124

B - 2 - 1

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
53					*	2.79*	2.37	1.39	1.21	.70	.21	.95	9.62*
54	1.70	1.12	1.73	.93	1.63	2.01	3.22	3.54	4.22	2.72	2.05	2.94	27.81
55	2.02	2.75	.95	.42	2.24	3.47	2.01	1.60	1.18	1.32	.99	3.53	22.48
56	2.51	.46	1.60	1.60	2.76	3.29	5.02	3.30	2.01	1.72	1.12	2.10	27.49
57	1.55	5.19	2.64	.83	.74	3.81	3.84	1.83	3.10	.96	.71	1.52	26.72
58	4.54	4.18	.89	2.43	6.45	2.17	1.64	4.50	2.15	2.08	1.91	4.17	37.11
59	3.93	.22	1.81	1.66	1.49	1.57	1.66	2.60	.10	1.21	1.65	3.61	21.51
60	4.87	2.13	1.10	1.21	2.97	3.42	2.92	3.92	2.26	2.59	3.51	3.00	33.90
61	3.21	1.45	.55	1.21	2.15	3.96	3.51	1.41	2.04	2.83	2.26	2.32	26.90
62	1.75	2.57	2.05	1.03	1.82	.11	.80	1.40	1.40	.39	1.58	2.27	17.17
63	1.26	1.10	1.87	1.14	1.78	2.20	.96	2.54	1.06	1.79	3.44	.15	19.29
64	1.05	.93	1.70	1.41	1.39	1.48	1.11	1.44	1.51	2.79	3.47	2.12	20.40
65	4.64	.74	2.13	2.37	2.65	2.44	3.44	2.22	2.86	.44	3.63	5.79	33.35
66	1.74	2.69	1.53	3.42	1.37	4.24	6.25	2.14	.62	3.51	3.28	4.29	35.08
67	.83	1.12	1.99	1.08	4.02	1.51	2.74	1.87	3.26	3.02	2.24	3.09	26.77
68	2.39	2.22	1.28	1.02	2.37	1.58	3.35	6.16	5.52	1.49	.72*	.92*	29.02*
69	1.17*	3.04	1.93	1.30*	.71*	1.88*	1.07*	3.28*	.05*	.07*	1.18*	1.11	16.79*
70	2.42	4.99	3.25	1.88*	2.89	4.20	3.05	1.21	1.72	2.76	2.28	2.26	32.91*
71	1.56	1.10	.95	.93	2.62	3.60	.94*	2.25*	1.02*	1.19*	2.59	.58	19.33*
72	1.22	.94	1.57	1.99	3.83	1.83	3.60	2.56	1.74	.48	3.56	.45	23.77
73	1.15	3.52	.37	1.23	2.39	.74	1.50	1.15	1.54	2.96	2.61	2.62	21.78
74	1.69	1.28	1.95	.49	2.61	3.61	1.86	2.05	3.38	4.09	4.31	3.34	30.66
75	3.23	.58	2.58	1.94	1.33	1.30	1.96	2.61	3.32	.38	3.84	.63	23.70
76	2.44	1.04	.84	.56	1.15	.41	2.76	.40	1.73	2.52	5.02	2.14	21.01
77	4.32	5.08	2.01	2.83	2.28	2.98	3.20	4.34	.91	2.33	4.41	2.54	37.23
78	1.78	1.74	3.35	.69	3.31	2.30	2.28	1.33	2.00	.42	.44	4.88	24.52
79	1.56	1.48	4.39	2.67	3.33	4.10	1.35	3.00	2.09	2.01	3.07	5.18	34.23
80	1.96	1.79	1.71	1.21	2.55	3.42	4.35	2.26	1.08	1.72	1.93	2.59	26.57
81	3.98	.93	3.43	2.71	1.56	3.91	1.65	2.22	3.56	3.76	1.84	4.63	34.18
82	2.74	.41	1.60	1.21	1.99	3.57	.74	1.60	1.55	2.52	1.90	2.40	22.23
83	1.85	1.98	1.21	2.46	4.85	1.34	.63	.72	1.63	.97	1.60	1.87	21.11
84	4.71	2.91	1.44	1.42	4.18	1.80	.19*			2.82	1.83	1.15	22.45*
85	2.14	.84	1.82	1.92	1.29	3.52	1.92	2.00	1.30	.61	2.62	1.79	21.77

B - 2 - 2A

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
86	3.70	.13	4.13	2.39	2.40	2.00	2.53	1.31	3.30	3.28	2.26	3.59	31.02
87	1.62	2.69	2.57	1.49	2.35	4.91	4.40	2.22	3.61	5.43	3.76	1.31	36.36
88	4.94	3.12	3.81	.96	2.67	.79	2.56	1.29	2.89	4.37	1.38	3.46	32.24
89	.89	3.02	2.70	3.72	1.45	2.13	3.72	2.85	2.31	2.41	2.26	6.25	33.71
90	3.24	4.99											8.23*
LEAST	.83	.13	.37	.42	.74	.11	.63	.40	.10	.38	.21	.15	17.17
GREATEST	4.94	5.19	4.39	3.72	6.45	4.91	6.25	6.16	5.52	5.43	5.02	6.25	37.23
MEAN	2.53	2.07	1.98	1.60	2.48	2.56	2.61	2.26	2.18	2.15	2.44	2.68	27.49
MEDIAN	2.08	1.74	1.82	1.32	2.37	2.30	2.55	2.10	2.01	2.33	2.26	2.47	26.77
SD	1.262	1.451	.977	.837	1.156	1.243	1.295	1.186	1.137	1.259	1.159	1.511	5.981
TOTAL OBS	1140	1045	1116	1062	1102	1078	1108	1097	1055	1117	1080	1124	13124

THE GREATEST VALUE OF 6.45 OCCURRED ON 05/58

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

B - 2 - 2B

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
53					*	1.32*	.55	.85	.47	.33	.10	.22	1.32*
54	.38	.34	.49	.50	.43	.48	.78	.55	.72	.63	.36	.80	.80
55	.61	.46	.22	.12	.34	1.18	1.08	1.04	.31	.51	.31	.76	1.18
56	.39	.13	.62	.46	.67	.64	1.46	.51	.74	.36	.45	.38	1.46
57	.32	.96	1.19	.57	.18	1.01	.77	.30	.47	.46	.27	.47	1.19
58	.76	.54	.30	1.05	1.12	.50	.89	.88	1.25	.51	.55	.42	1.25
59	.87	.21	.43	.27	.28	.30	.79	.87	.09	.42	.53	1.12	1.12
60	.74	.70	.25	.19	1.19	1.60	.55	.48	1.10	.46	.69	1.25	1.60
61	.67	.24	.23	.19	.42	1.23	.84	.35	.85	.90	.36	.40	1.23
62	.72	.72	.58	.33	.31	.11	.27	.51	.32	.18	.51	.51	.72
63	.38	.21	.72	.49	.51	.47	.54	.79	.23	.77	.68	.10	.79
64	.25	.24	.76	.47	.38	.35	.36	.33	.36	.65	.90	.47	.90
65	.77	.15	.55	.34	.55	.51	.93	.41	.92	.35	.66	.88	.93
66	.38	.43	.24	.43	.40	.88	1.63	.49	.26	1.28	1.31	.95	1.63
67	.28	.30	.42	.33	1.12	.41	.89	.34	1.23	.84	.73	1.09	1.23
68	.34	.45	.32	.40	.50	.41	1.21	1.44	.82	.26	.45*	.32*	1.44*
69	.23*	.88	.40	.35*	.53*	.67*	.52*	.61*	.02*	.05*	.40*	.32	.88*
70	.45	.57	.60	.89*	1.21	1.67	.91	.43	.61	1.09	.31	.45	1.67*
71	.42	.22	.20	.55	.73	.93	.73*	.56*	.46*	.30*	.56	.20	.93*
72	.21	.47	.54	.36	.93	.63	.93	.81	1.32	.23	1.19	.22	1.32
73	.21	.90	.26	.24	.40	.22	.30	.27	.52	1.10	.83	.67	1.10
74	.29	.41	.39	.27	1.42	1.00	.46	.85	.66	.79	.59	.63	1.42
75	.71	.36	.55	.36	.36	.23	.69	1.12	1.35	.12	1.11	.44	1.35
76	.42	.44	.22	.16	.23	.38	.62	.10	.55	.56	2.96	.49	2.96
77	1.77	1.15	.44	.63	.61	.81	1.01	1.15	.27	.74	1.27	.41	1.77
78	.28	.37	.54	.17	.71	.51	.49	.84	.52	.14	.18	1.20	1.20
79	.28	.35	.69	.73	.57	1.54	.80	.79	.97	.81	.55	1.39	1.54
80	.54	.46	.37	.51	1.11	.53	.79	1.15	.42	.67	.48	.52	1.15
81	1.60	.50	.51	1.63	.30	.79	.50	.87	.92	.61	.80	1.17	1.63
82	.54	.15	.28	.71	.63	1.03	.22	.52	.37	.48	.40	.41	1.03
83	.45	.36	.28	.55	.85	.44	.13	.43	.46	.19	.71	.38	.85
84	.69	.62	.41	.68	.78	.63	.15*			.87	.57	.45	.87*
85	.37	.30	.44	.41	.30	.62	.67	.49	.70	.26	.56	.50	.70

B - 2 - 3A

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY PRECIPITATION AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
86	.88	.07	1.26	.63	.75	.71	1.20	.50	.81	.93	.53	.95	1.26
87	1.02	.56	.40	.30	.68	1.18	.75	.55	.93	1.59	.87	.52	1.59
88	.74	.69	.46	.49	.50	.22	.38	.26	.79	1.30	.64	1.71	1.71
89	.39	.63	.50	.70	.57	.45	1.81	.81	.71	.52	.91	1.56	1.81
90	.93	.94											.94*
GREATEST	1.77	1.15	1.26	1.63	1.42	1.67	1.81	1.44	1.35	1.59	2.96	1.71	2.96
TOTAL OBS	1140	1045	1116	1062	1102	1078	1108	1097	1055	1117	1080	1124	13124

THE GREATEST VALUE OF 2.96 OCCURRED ON 11/30/76

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

B - 2 - 3B

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	55.4	60.8	72.8	83.8	98.7	99.8	100.0	100.0	99.9	98.7	81.9	66.0	84.8
TRACE	21.4	20.4	15.6	11.2	1.0	.2			.1	1.1	10.6	18.8	8.4
0.1-0.4	10.4	7.1	4.8	3.2	.2					.2	3.1	7.0	3.0
0.5-1.4	8.3	7.5	4.7	.9	.1						3.0	5.2	2.5
1.5-2.4	2.0	2.5	1.5	.3	.1						.6	2.0	.8
2.5-3.4	1.8	1.1	.4	.3							.5	.5	.4
3.5-4.4	.4	.3	.2	.1							.2	.1	.1
4.5-6.4	.2	.3	.1	.1							.2	.3	.1
6.5-10.4	.2	.2											.0
10.5-15.4				.1								.1	.0
15.5-25.4													
25.5-50.4													
OVER 50.4													
DAYS WITH MEAS AMTS	23.2	18.9	11.6	5.0	.4					.2	7.6	15.2	6.9
TOTAL NO. OF OBSERVATIONS	1139	1045	1116	1063	1120	1099	1111	1099	1055	1119	1086	1128	13180

B - 3 - 1

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
53					.0*	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE*
54	6.0	1.0	1.4	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.5	8.9
55	3.4	14.8	5.1	TRACE	.0	.0	.0	.0	.0	.3	1.1	.5	25.2
56	3.4	3.9	.3	.8	.0	.0	.0	.0	.0	.0	1.1	1.8	11.3
57	4.7	7.2	.0	TRACE	1.4	.0	.0	.0	.0	.0	TRACE	1.4	14.7
58	5.0	6.4	5.3	1.8	.0	.0	.0	.0	.0	.0	TRACE	2.6	21.1
59	17.1	TRACE	.3	.3	.0	.0	.0	.0	.0	.0	TRACE	.4	18.1
60	9.3	5.5	TRACE	.3	.0	.0	.0	.0	.0	.0	TRACE	14.1	29.2
61	6.3	4.1	.4	.0	.0	.0	.0	.0	.0	.0	2.5	TRACE	13.3
62	.5	13.1	8.1	.3	.0	.0	.0	.0	.0	TRACE	10.3	6.1	38.4
63	8.5	11.0	1.6	TRACE	.0	.0	.0	.0	.0	.0	.0	1.7	22.8
64	6.4	1.2	1.8	TRACE	.0	.0	.0	.0	.0	TRACE	.0	7.0	16.4
65	7.5	8.7	2.5	TRACE	.0	.0	.0	.0	TRACE	.0	7.5	6.8	33.0
66	3.1	TRACE	6.2	TRACE	.0	.0	.0	.0	.0	TRACE	9.0	8.5	26.8
67	7.3	.7	.7	.9	.1	.0	.0	.0	.0	.0	1.3	10.2	21.2
68	24.0	8.4	2.4	.1	.0	.0	.0	.0	.0	.0	.4*	9.7*	45.0*
69	.2*	25.1	1.1	.3*	.0*	.0*	.0*	.0*	.0*	.0*	1.5*	7.0	35.2*
70	10.6	12.0	16.1	.5*	.0	.0	.0	.0	.0	.0	1.3	10.8	51.3*
71	.8	3.8	6.5	.0	.0	.0	.0*	.0*	.0*	.0*	4.4	TRACE	15.5*
72	10.4	.6	1.9	.3	.0	.0	.0	.0	.0	.0	4.9	.1	18.2
73	3.4	18.8	.6	2.8	TRACE	.0	.0	.0	.0	.2	2.3	6.9	35.0
74	TRACE	1.3	5.0	.0	TRACE	.0	.0	.0	.0	TRACE	.3	2.6	9.2
75	.1	TRACE	12.2	8.5	TRACE	TRACE	.0	.0	.0	TRACE	TRACE	.8	21.6
76	2.4	6.7	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.3	7.9	17.3
77	15.6	TRACE	.3	.4	.0	.0	.0	.0	.0	.0	1.8	2.8	20.9
78	7.2	9.7	2.6	.7	.0	.0	.0	.0	.0	.0	.2	3.5	23.9
79	13.7	2.4	1.4	3.2	2.0	.0	.0	.0	.0	.0	1.0	4.4	28.1
80	2.0	TRACE	TRACE	.2	.0	.0	.0	.0	.0	.0	5.0	12.2	19.4
81	15.2	2.6	2.7	21.0	TRACE	.0	.0	.0	.0	TRACE	3.0	15.9	60.4
82	9.1	.3	3.0	.9	TRACE	.0	.0	.0	.0	.0	TRACE	1.9	15.2
83	7.2	8.1	2.1	.2	.0	.0	.0	.0	.0	.0	.1	.5	18.2
84	16.6	7.8	3.9	6.0	.0	.0	.0*			.0	.0	1.7	36.0*
85	12.7	2.5	4.3	1.8	TRACE	.0	.0	.0	.0	.0	12.7	.4	34.4

B - 3 - 2A

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

TOTAL MONTHLY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
86	9.0	1.1	.4	1.5	.0	.0	.0	.0	.0	.0	.0	8.1	20.1
87	2.3	9.6	6.6	TRACE	TRACE	.0	.0	.0	.0	.0	2.3	TRACE	20.8
88	2.7	9.9	5.4	.3	.0	.0	.0	.0	.0	.0	3.2	TRACE	21.5
89	TRACE	1.4	.8	.1	.0	.0	.0	.0	.0	.0	TRACE	TRACE	2.3
90	TRACE	TRACE											TRACE*
LEAST	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.3
GREATEST	24.0	25.1	16.1	21.0	2.0	TRACE	.0	.0	TRACE	.3	12.7	15.9	60.4
MEAN	7.0	5.7	3.1	1.5	.1	TRACE	.0	.0	TRACE	TRACE	2.2	4.1	22.1
MEDIAN	6.4	3.9	2.0	.3	.0	.0	.0	.0	.0	.0	1.0	2.3	20.9
SD	5.781	5.890	3.551	3.888	.407	.000	.000	.000	.000	.060	3.236	4.479	10.706
TOTAL OBS	1139	1045	1116	1063	1120	1099	1111	1099	1055	1119	1086	1128	13180

THE GREATEST VALUE OF 25.1 OCCURRED ON 02/69

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

B - 3 - 2B

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
53					.0*	TRACE	.0	.0	.0	.0	.0	TRACE	TRACE*
54	3.5	.5	1.0	TRACE	.0	.0	.0	.0	.0	.0	TRACE	.5	3.5
55	1.8	2.9	3.1	TRACE	.0	.0	.0	.0	.0	.3	1.1	.3	3.1
56	.9	1.3	.3	.6	.0	.0	.0	.0	.0	.0	1.1	.7	1.3
57	3.0	3.0	.0	TRACE	1.3	.0	.0	.0	.0	.0	TRACE	.4	3.0
58	2.0	2.3	3.0	1.4	.0	.0	.0	.0	.0	.0	TRACE	2.0	3.0
59	3.0	TRACE	.3	.3	.0	.0	.0	.0	.0	.0	TRACE	.3	3.0
60	1.4	2.2	TRACE	.3	.0	.0	.0	.0	.0	.0	TRACE	11.9	11.9
61	2.8	1.4	.3	.0	.0	.0	.0	.0	.0	.0	2.3	TRACE	2.8
62	.4	4.1	2.4	.3	.0	.0	.0	.0	.0	TRACE	5.1	2.3	5.1
63	3.3	2.1	1.5	TRACE	.0	.0	.0	.0	.0	.0	.0	.8	3.3
64	2.9	.7	1.0	TRACE	.0	.0	.0	.0	.0	TRACE	.0	2.5	2.9
65	3.2	3.3	1.2	TRACE	.0	.0	.0	.0	TRACE	.0	2.7	3.0	3.3
66	1.1	TRACE	1.9	TRACE	.0	.0	.0	.0	.0	TRACE	5.1	2.0	5.1
67	2.6	.4	.5	.5	.1	.0	.0	.0	.0	.0	1.3	4.6	4.6
68	7.1	5.6	2.2	.1	.0	.0	.0	.0	.0	.0	.4*	5.1*	7.1*
69	.2*	7.2	.4	.3*	.0*	.0*	.0*	.0*	.0*	.0*	.7*	1.7	7.2*
70	3.0	2.3	4.3	.3*	.0	.0	.0	.0	.0	.0	.7	3.2	4.3*
71	.5	1.9	2.0	.0	.0	.0	.0*	.0*	.0*	.0*	1.9	TRACE	2.0*
72	2.6	.4	1.4	.2	.0	.0	.0	.0	.0	.0	2.5	.1	2.6
73	1.3	5.3	.5	.9	TRACE	.0	.0	.0	.0	.2	1.2	3.7	5.3
74	TRACE	.8	1.6	.0	TRACE	.0	.0	.0	.0	TRACE	.3	1.3	1.6
75	.1	TRACE	4.8	2.5	TRACE	TRACE	.0	.0	.0	TRACE	TRACE	.7	4.8
76	1.5	4.4	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.3	1.9	4.4
77	5.0	TRACE	.3	.4	.0	.0	.0	.0	.0	.0	.7	1.4	5.0
78	1.9	2.2	.8	.4	.0	.0	.0	.0	.0	.0	.2	2.2	2.2
79	4.0	.9	.9	3.2	2.0	.0	.0	.0	.0	.0	1.0	1.8	4.0
80	1.4	TRACE	TRACE	.1	.0	.0	.0	.0	.0	.0	3.9	5.0	5.0
81	3.7	1.0	2.0	15.1	TRACE	.0	.0	.0	.0	TRACE	2.1	2.9	15.1
82	5.4	.3	1.0	.8	TRACE	.0	.0	.0	.0	.0	TRACE	1.0	5.4
83	3.2	2.2	1.5	.2	.0	.0	.0	.0	.0	.0	.1	.3	3.2
84	3.3	3.8	2.3	3.6	.0	.0	.0*			.0	.0	1.5	3.8*
85	3.7	1.9	2.8	1.6	TRACE	.0	.0	.0	.0	.0	3.6	.3	3.7

B - 3 - 3A

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

EXTREME DAILY SNOWFALL AMOUNTS IN INCHES
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
86	2.9	.7	.3	.9	.0	.0	.0	.0	.0	.0	.0	3.3	3.3
87	.7	3.3	2.0	TRACE	TRACE	.0	.0	.0	.0	.0	1.7	TRACE	3.3
88	1.4	3.1	2.3	.3	.0	.0	.0	.0	.0	.0	2.7	TRACE	3.1
89	TRACE	.6	.8	.1	.0	.0	.0	.0	.0	.0	TRACE	TRACE	.8
90	TRACE	TRACE											TRACE*
GREATEST	7.1	7.2	4.8	15.1	2.0	TRACE	.0	.0	TRACE	.3	5.1	11.9	15.1
TOTAL OBS	1139	1045	1116	1063	1120	1099	1111	1099	1055	1119	1086	1128	13180

THE GREATEST VALUE OF 15.1 OCCURRED ON 04/27/81

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

B - 3 - 3B

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

AMOUNTS (INCHES)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NONE	53.2	57.6	80.3	98.1	99.8	100.0	100.0	100.0	100.0	100.0	92.3	72.2	87.7
TRACE	15.9	19.4	11.5	1.3	.1						4.4	16.1	5.7
1	8.1	6.4	2.7	.2	.1						1.1	4.3	1.9
2	5.7	4.5	1.2	.1							1.0	2.8	1.3
3	4.8	3.2	1.7								.4	2.1	1.0
4-6	9.5	7.0	2.2	.1							.7	2.0	1.8
7-12	2.8	1.7	.3	.2								.6	.5
13-24		.1											.0
25-36													
37-48													
49-60													
61-120													
OVER 120													
DAYS WITH MEAS AMTS	30.8	23.0	8.2	.6	.1						3.3	11.8	6.5
TOTAL NO. OF OBSERVATIONS	1018	932	990	947	996	983	987	978	937	1001	970	1003	11742

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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
53					0*	0	0	0	0	0	0	TRACE	TRACE*
54	4	1	TRACE	0	0	0	0	0	0	0	TRACE	1	4
55	2	8	7	0	0	0	0	0	0	0	TRACE	TRACE	8
56	3	4	TRACE	0	0	0	0	0	0	0	TRACE	1	4
57	4	3	0	0	1	0	0	0	0	0	TRACE	TRACE	4
58	4	4	3	TRACE	0	0	0	0	0	0	0	1	4
59	5	TRACE	TRACE	0	0	0	0	0	0	0	0	0	5
60	5	3	TRACE	0	0	0	0	0	0	0	0	11	11
61	3	1	0	0	0	0	0	0	0	0	TRACE	TRACE	3
62	TRACE	6	5	0	0	0	0	0	0	0	6	1	6
63	5	6	3	0	0	0	0	0	0	0	0	TRACE	6
64	*	*	*	*	*	*	*	*	*	*	*	*	*
65	*	*	*	*	*	*	*	*	*	*	*	*	*
66	*	*	*	*	*	*	*	*	*	*	*	*	*
67	*	*	*	*	*	*	*	*	*	*	*	*	*
68	8	1	TRACE	0	0	0	0	0	0	0	TRACE*	6*	8*
69	6	14	TRACE	TRACE*	0*	0*	0*	0*	0*	0*	2*	4	14*
70	6	3	8	0*	0	0	0	0	0	0	TRACE	5	8*
71	5	1	3	0	0	0	0*	0*	0*	0*	1	0	5*
72	4	2	0	0	0	0	0	0	0	0	3	0	4
73	1	6	TRACE	TRACE	0	0	0	0	0	0	2	5	6
74	0	TRACE	2	0	0	0	0	0	0	0	0	1	2
75	0	0	6	4	0	0	0	0	0	0	0	TRACE	6
76	3	5	TRACE	0	0	0	0	0	0	0	0	1	5
77	6	TRACE	0	TRACE	0	0	0	0	0	0	0	TRACE	6
78	2	7	TRACE	0	0	0	0	0	0	0	TRACE	1	7
79	12	2	TRACE	1	TRACE	0	0	0	0	0	1	1	12
80	2	0	TRACE	0	0	0	0	0	0	0	1	4	4
81	4	1	TRACE	12	0	0	0	0	0	0	2	6	12
82	7	TRACE	TRACE	TRACE	0	0	0	0	0	0	0	1	7
83	1	6	TRACE	0	0	0	0	0	0	0	0	TRACE	6
84	8	4	5	TRACE	0	0	0*			0	0	TRACE	8*
85	8	2	3	0	0	0	0	0	0	0	5	1	8

B - 4 - 2A

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
86	2	1	TRACE	TRACE	0	0	0	0	0	0	0	4	4
87	1	5	2	0	0	0	0	0	0	0	2	0	5
88	TRACE	3	5	0	0	0	0	0	0	0	2	0	5
89	TRACE	TRACE	0	TRACE	0	0	0	0	0	0	0	TRACE	TRACE
90	0	0											0*
GREATEST	12*	14*	8*	12*	1*	0*	0*	0*	0*	0*	6*	11*	14*
TOTAL OBS	1018	932	990	947	996	983	987	978	937	1001	970	1003	11742

THE GREATEST VALUE OF 14 OCCURRED ON 02/12/69

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

B - 4 - 2B

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY

PERIOD OF RECORD: 5305-9002
SNOW-YEAR: 1 AUG - 31 JUL

SNOW-YEAR	FIRST SNOWFALL	FIRST MEASURABLE SNOWFALL	FIRST MEASURABLE SNOW DEPTH	LAST SNOWFALL	LAST MEASURABLE SNOWFALL	LAST MEASURABLE SNOW DEPTH
52 - 53	JUN 02			JUN 02		
53 - 54	DEC 19	JAN 01	JAN 03	APR 19	MAR 05	FEB 10
54 - 55	NOV 10	DEC 25	DEC 25	APR 16	MAR 21	MAR 17
55 - 56	OCT 28	OCT 28	JAN 09	APR 20	APR 17	FEB 28
56 - 57	NOV 23	NOV 29	DEC 23	MAY 07	MAY 07	MAY 05
57 - 58	NOV 22	DEC 07	JAN 21	APR 17	APR 17	MAR 15
58 - 59	NOV 02	DEC 09	DEC 09	APR 20	APR 07	JAN 20
59 - 60	NOV 12	DEC 08	JAN 12	APR 29	APR 26	FEB 20
60 - 61	NOV 06	DEC 10	DEC 21	MAR 28	MAR 21	FEB 04
61 - 62	NOV 03	NOV 05	FEB 01	APR 30	APR 14	MAR 09
62 - 63	OCT 30	NOV 11	NOV 20	APR 05	MAR 26	MAR 07
63 - 64	DEC 10	DEC 13		APR 08	MAR 19	
64 - 65	OCT 24	DEC 03		APR 27	MAR 08	
65 - 66	SEP 04	NOV 13		APR 14	MAR 30	
66 - 67	OCT 24	NOV 04		MAY 02	MAY 02	
67 - 68	NOV 07	NOV 27	JAN 01	APR 14	APR 04	FEB 23
68 - 69	NOV 19	NOV 19	DEC 16	APR 17	APR 15	FEB 25
69 - 70	NOV 17	NOV 24	NOV 25	APR 30	APR 30	MAR 16
70 - 71	NOV 09	NOV 16	DEC 22	MAR 27	MAR 12	MAR 08
71 - 72	NOV 19	NOV 19	NOV 23	APR 28	APR 11	FEB 03
72 - 73	NOV 15	NOV 16	NOV 17	MAY 07	APR 20	FEB 25
73 - 74	OCT 18	OCT 18	NOV 29	MAY 06	MAR 14	MAR 05
74 - 75	OCT 01	NOV 30	DEC 13	JUN 03	APR 09	APR 04
75 - 76	OCT 10	DEC 13	JAN 26	APR 25	FEB 14	FEB 18
76 - 77	NOV 23	NOV 23	DEC 11	APR 16	APR 14	JAN 22
77 - 78	NOV 12	NOV 12	JAN 04	APR 16	APR 16	FEB 22
78 - 79	NOV 27	NOV 28	DEC 20	MAY 05	MAY 04	APR 04
79 - 80	NOV 12	NOV 18	NOV 18	APR 26	APR 25	JAN 04
80 - 81	NOV 04	NOV 28	NOV 29	MAY 04	APR 27	APR 29

B - 5 - 1A

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

FIRST AND LAST DAYS OF OCCURRENCE BY SNOW-YEAR
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY

PERIOD OF RECORD: 5305-9002
SNOW-YEAR: 1 AUG - 31 JUL

SNOW-YEAR	FIRST SNOWFALL	FIRST MEASURABLE SNOWFALL	FIRST MEASURABLE SNOW DEPTH	LAST SNOWFALL	LAST MEASURABLE SNOWFALL	LAST MEASURABLE SNOW DEPTH
81 - 82	OCT 23	NOV 11	NOV 30	MAY 01	APR 10	JAN 29
82 - 83	NOV 16	DEC 10	DEC 23	APR 13	APR 03	FEB 19
83 - 84	NOV 15	NOV 30	JAN 06	APR 16	APR 06	MAR 05
84 - 85	DEC 18	DEC 26	JAN 02	MAY 04	APR 29	MAR 20
85 - 86	NOV 02	NOV 19	NOV 21	APR 19	APR 11	FEB 11
86 - 87	DEC 13	DEC 19	DEC 23	MAY 15	MAR 19	MAR 20
87 - 88	NOV 12	NOV 25	NOV 25	APR 09	APR 09	MAR 06
88 - 89	NOV 20	NOV 20	NOV 21	APR 27	APR 05	NOV 23
89 - 90	NOV 27			FEB 28		
MEDIAN-DATE	NOV 12	NOV 26	DEC 20	APR 22	APR 09	FEB 26

B - 5 - 1B

```
PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT              CCCCCC
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT             CCCCCCCC
PP      PP    AA      AA    RR      RR        TT                CC      CC
PP      PP    AA      AA    RR      RR        TT                CC
PPPPPPPPP     AA      AA    RRRRRRRRR         TT                CC
PPPPPPPP      AAAAAAAAAA    RRRRRRRR          TT                CC
PP            AAAAAAAAAA    RR    RR          TT                CC
PP            AA      AA    RR     RR         TT                CC      CC
PP            AA      AA    RR      RR        TT                CCCCCCCC
PP            AA      AA    RR       RR       TT                 CCCCCC
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C - 1 - 1

PART C

SURFACE WIND SUMMARIES

PEAK WINDS.

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

PEAK WINDS--PERCENT OCCURRENCE FREQUENCY.

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

WIND DIRECTION VS WIND SPEED--PERCENT OCCURRENCE FREQUENCY.

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

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

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

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

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

CONVERSION: 1 KNOT = .514791 METERS PER SECOND

C - 1 - 2

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
53					*	*	*	*	*	*	*	*	*
54	*	*	*	*	*	*	*	*	*	*	*	*	*
55	*	*	*	*	*	*	*	*	*	*	*	*	*
56	*	*	*	*	*	*	*	*	*	*	*	*	*
57	*	*	*	*	*	*	*	*	*	*	*	*	*
58	*	*	*	*	*	*	*	*	*	*	*	*	*
59	*	*	*	*	*	*	*	*	*	*	*	*	*
60	*	*	*	*	*	*	*	*	*	*	*	*	*
61	*	*	*	*	SSE*23	SW *25	W 32	W 29	W 32	SW 31	ENE 27	W 41	W *41
62	W 62	WSW 42	SW *34	SSW*35	W *34	WSW*33	W *27	SW *30	SW 39	E 24	E 24	W 41	W *62
63	ENE 30	E 24	WSW 32	ENE 28	W 29	ENE 29	SW 26	WSW 35	W 31	SW 28	WSW 40	NE 25	WSW 40
64	E 23	W *22	E 31	WSW 35	E 31	NW 28	W 30	S 29	WSW 29	SW 47	SW 34	SW 31	SW *47
65	WSW 42	W 29	WNW 32	WSW 30	WSW 35	SSW 34	WSW 28	W 25	SW 32	E 22	WSW 51	W 43	WSW 51
66	W 49	SW 39	W 45	SW 31	SW 30	SW 27	S *27	E 25	WSW 27	WSW 26	W 32	SW 38	W *49
67	SW 24	W 44	WNW 37	WNW 28	W 38	WSW 37	NW *37	W 36	SSW*26	*	SSW 29	W 35	W *44
68	W 36	SSW 32	W 41	WSW 39	WSW*26	W 24	27/ 38	26/ 33	24/ 27	22/ 26	24/*24	*	W *41
69	28/*28	26/ 31	26/ 31	25/*34	*	09/*25	28/*30	08/*22	08/*20	24/*22	23/*46	08/ 32	23/*46
70	09/ 37	29/ 48	28/ 34	33/*40	32/ 28	05/ 31	28/ 50	03/*20	25/ 34	29/ 37	27/ 42	07/ 31	28/*50
71	22/ 40	20/ 42	02/ 36	23/ 30	22/ 26	28/ 31	06/*18	*	*	*	25/ 33	09/ 32	20/*42
72	07/ 30	22/ 28	25/ 38	27/ 34	24/ 37	25/ 26	09/ 39	22/ 30	07/ 30	10/ 25	27/ 47	20/ 27	27/ 47
73	32/ 22	24/ 34	36/ 26	28/ 37	10/ 32	07/ 29	25/ 26	20/ 24	23/ 27	07/ 30	29/ 32	32/ 40	32/ 40
74	23/ 42	26/ 48	22/ 34	04/ 27	07/ 26	20/ 28	26/ 33	23/ 31	22/ 31	22/ 31	25/ 36	25/ 35	26/ 48
75	23/ 29	09/ 28	05/ 26	22/ 27	06/ 30	26/ 28	21/ 25	24/ 22	25/ 34	07/ 26	25/ 39	23/ 32	25/ 39
76	27/ 40	08/ 25	26/ 25	03/ 26	29/ 25	27/ 25	27/ 24	12/ 25	27/ 23	21/ 22	21/ 40	23/ 33	27/ 40
77	26/ 30	23/ 33	25/ 30	28/ 32	22/ 28	23/ 30	24/ 23	20/ 24	06/ 23	33/ 24	23/ 41	29/ 32	23/ 41
78	30/ 34	10/ 31	24/ 38	07/ 24	32/ 25	10/ 30	24/ 25	33/ 19	28/ 26	03/ 20	23/ 16	25/ 42	25/ 42
79	24/ 28	10/ 27	24/ 38	24/ 31	25/ 38	01/ 32	30/ 40	23/ 28	22/ 18	10/ 27	24/ 43	25/ 42	24/ 43
80	22/ 32	21/ 29	23/ 31	29/ 32	09/ 33	27/ 26	26/ 24	09/ 32	23/ 23	23/ 33	25/ 31	24/ 31	09/ 33
81	25/ 38	30/ 32	26/ 35	10/ 26	21/ 23	24/ 23	10/ 22	24/ 21	23/ 30	27/ 35	34/ 32	23/ 39	23/ 39
82	23/ 31	08/ 23	27/ 41	02/ 31	23/ 28	28/ 23	09/ 24	25/ 27	22/ 27	22/ 33	27/ 28	24/ 44	24/ 44
83	23/ 38	23/ 43	27/ 37	21/ 41	22/ 31	19/ 32	25/ 26	23/ 30	23/ 34	21/ 43	23/ 49	29/ 29	23/ 49
84	28/ 40	22/ 29	21/ 35	36/ 26	19/ 36	24/ 22	31/*21			25/ 32	24/ 40	21/*20	28/*40
85	22/ 24	08/ 26	24/ 30	24/ 32	27/ 23	23/ 22	27/ 41	24/ 32	30/ 25	09/ 26	22/ 34	27/ 36	27/ 41

C - 2 - 1A

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

PEAK SURFACE WINDS IN KNOTS
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
86	25/ 49	06/ 26	28/ 46	04/ 36	22/ 26	24/ 39	28/ 23	24/ 33	26/ 27	24/ 48	24/ 30	27/ 43	25/ 49
87	28/ 33	05/ 23	24/ 40	08/ 25	31/ 31	24/ 40	21/ 38	09/ 26	23/ 26	19/ 38	22/ 43	06/ 23	22/ 43
88	29/ 44	22/ 40	26/ 40	30/ 26	24/ 32	18/ 23	21/ 44	24/ 28	22/ 44	22/ 36	02/ 29	32/ 47	32/ 47
89	21/ 24	23/ 26	24/ 30	06/ 26	22/ 25	25/ 29	09/ 35	28/ 34	08/ 21	25/ 34	24/ 31	28/ 60	28/ 60
90	26/ 90	29/ 81											26/*90
GREATEST	26/ 90	29/ 81	28/ 46	21/ 41	W 38	24/ 40	28/ 50	W 36	22/ 44	24/ 48	WSW 51	28/ 60	26/ 90
TOTAL OBS	884	807	861	799	844	830	813	795	764	809	810	853	9869

THE PEAK WIND OF 90 FROM 26/ OCCURRED ON 01/25/90

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

C - 2 - 1B

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

MONTH	WIND SPEEDS IN KNOTS											MEAN	MEDIAN	TOTAL
	CALM-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	WIND	WIND	OBS
JAN	.7	15.2	26.9	22.1	17.3	9.6	5.0	1.7	1.4	.1	.1	17.3	16.0	884
FEB	.9	13.4	25.9	27.3	18.0	7.9	2.7	1.5	1.9	.4	.2	17.3	16.0	807
MAR	.3	8.9	26.2	25.2	22.0	9.5	5.1	1.9	.8	.0	.0	18.1	17.0	861
APR	.0	5.1	30.0	32.8	19.8	8.0	3.1	.9	.3	.0	.0	17.4	17.0	799
MAY	.2	7.2	27.1	36.1	20.0	7.0	1.7	.6	.0	.0	.0	16.8	16.0	844
JUN	.2	8.0	34.7	32.9	17.8	4.8	1.2	.2	.1	.0	.0	16.1	16.0	830
JUL	.0	10.8	32.8	32.5	16.2	5.0	1.5	.6	.4	.1	.0	16.0	15.0	813
AUG	.3	12.3	34.6	31.4	15.3	4.7	1.1	.3	.0	.0	.0	15.4	15.0	795
SEP	.4	16.4	35.7	24.2	13.9	6.7	2.4	.3	.1	.0	.0	15.3	14.0	764
OCT	.7	20.1	30.3	23.9	15.3	5.9	2.5	.7	.5	.0	.0	15.3	14.0	809
NOV	1.9	18.0	25.7	21.0	17.5	8.5	4.7	.9	1.7	.1	.0	16.7	15.5	810
DEC	1.6	16.6	24.4	22.5	17.7	8.7	4.7	2.0	1.6	.1	.0	17.1	16.0	853
ANNUAL	.6	12.7	29.4	27.6	17.6	7.2	3.0	1.0	.7	.1	.0	16.6	16.0	9869

C - 3 - 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.2	1.1										1.3	6.3	7.0
020-040	.8	.5	.3	.2								1.9	7.2	6.0
050-070	3.4	5.3	2.2	.4								11.3	6.6	6.0
(E) 080-100	6.2	2.2	.4									8.8	4.0	3.0
110-130	.3											.3	2.0	1.0
140-160	.3	.1										.4	3.3	3.5
(S) 170-190	.8	.4	.8									2.0	6.5	6.0
200-220	1.4	4.5	1.7	.8								8.4	8.1	7.0
230-250	8.1	12.4	8.6	2.3	.1							31.5	7.8	7.0
(W) 260-280	4.7	3.3	3.3	.5								11.8	6.7	6.0
290-310	2.9	.9	.8	.1								4.7	5.1	3.0
320-340	.9	.2	.2									1.3	4.3	3.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	16.2	//////	//////
TOTALS	30.0	30.9	18.3	4.3	.1							100.0	5.7	6.0

TOTAL NUMBER OF OBSERVATIONS 917

C - 4 - 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.3	.1									1.3	4.8	4.0
020-040	.9	.7	.3	.1								2.0	5.8	5.0
050-070	4.5	3.8	1.6	.9								10.7	6.4	5.0
(E) 080-100	5.6	4.1	.4									10.2	4.3	4.0
110-130	.7	.2										.9	2.9	2.0
140-160	.2											.2	2.0	2.0
(S) 170-190	.4	.7	.8	.1								2.0	8.0	8.5
200-220	2.3	4.0	2.0	.5	.2							9.0	7.8	7.0
230-250	9.0	13.4	8.6	1.5	.1							32.6	7.5	8.0
(W) 260-280	5.2	2.7	2.4	.5								10.9	6.2	5.0
290-310	2.6	.4	.9	.1								4.0	5.1	3.0
320-340	.7	.9	.3									1.8	5.5	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	14.4	////	////
TOTALS	33.0	31.2	17.4	3.7	.3							100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 921

C - 4 - 2

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.4	.2									1.4	4.8	4.0
020-040	.3	.8	.2	.1								1.4	7.1	6.0
050-070	4.2	3.9	1.9	.6								10.7	6.6	6.0
(E) 080-100	6.6	3.0	.4									10.1	4.2	4.0
110-130	1.4											1.4	2.5	2.0
140-160	.2	.1	.1									.4	5.5	5.0
(S) 170-190	.3	.5	.8	.2								1.8	8.6	10.0
200-220	1.7	3.9	2.9	.8	.3							9.6	8.8	8.0
230-250	7.9	13.1	7.1	1.6								29.8	7.4	7.0
(W) 260-280	5.6	4.2	1.5									11.4	5.3	5.0
290-310	2.6	.4	.8									3.8	4.6	3.0
320-340	1.4	.6	.2									2.3	4.7	3.0
VARIABLE			.2									.2	11.0	11.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	15.7	//////////	
TOTALS	33.0	30.9	16.3	3.3	.3							100.0	5.5	6.0

TOTAL NUMBER OF OBSERVATIONS 924

C - 4 - 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.3	.3	.2									.9	6.1	5.0
020-040	.6	.5	.2									1.4	5.3	5.0
050-070	3.5	5.2	1.9	.6	.1							11.4	6.8	6.0
(E) 080-100	6.2	3.4	1.1	.4								11.0	5.3	4.0
110-130	1.0	.1										1.1	2.3	2.0
140-160	.1	.4	.1									.6	6.2	5.5
(S) 170-190	.9	.8	.5									2.2	6.6	6.5
200-220	1.8	3.5	3.2	.9	.3							9.7	8.8	8.5
230-250	6.8	14.1	8.2	2.7								31.8	8.1	8.0
(W) 260-280	6.3	4.3	.8									11.4	4.7	4.0
290-310	2.3	.9	1.0	.1								4.2	5.4	4.0
320-340	1.1	.5	.2									1.8	4.9	4.0
VARIABLE		.1	.2									.3	10.7	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	12.1	//////////	//////////
TOTALS	30.9	34.1	17.6	4.7	.4							100.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS 924

C - 4 - 4

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.3	.9	.6									1.8	8.3	8.0
020-040	.5	1.3	.4									2.3	6.5	6.0
050-070	2.7	2.5	2.6	.6								8.4	7.5	7.0
(E) 080-100	5.4	4.5	1.8	.4								12.2	5.8	5.0
110-130	2.5	.3										2.8	3.2	3.0
140-160	.3		.3									.6	7.2	7.0
(S) 170-190	.4	.6	.4	.1								1.6	7.8	8.0
200-220	1.5	3.7	3.1	1.0	.1							9.4	9.1	9.0
230-250	6.2	13.7	11.1	1.9	.6							33.7	8.6	8.0
(W) 260-280	6.4	4.8	1.4	.3								12.9	5.4	5.0
290-310	2.5	2.1	.2	.2								5.0	4.8	4.5
320-340	1.1	.9										1.9	4.1	4.0
VARIABLE		.5	.5									1.1	9.7	9.5
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	6.2	//////////	//////////
TOTALS	29.8	35.8	22.4	4.5	.7							100.0	6.8	7.0

TOTAL NUMBER OF OBSERVATIONS 924

C - 4 - 5

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	1.0	.8									2.8	6.3	6.0
020-040	1.3	1.3	.5									3.1	5.6	5.0
050-070	2.1	4.7	2.4	.6								9.7	7.7	7.5
(E) 080-100	4.5	2.7	1.1	.4								8.8	5.4	4.0
110-130	1.9	.3										2.3	3.1	3.0
140-160	.3		.1									.4	4.3	2.5
(S) 170-190	1.9	.8	.3	.1								3.1	4.6	3.0
200-220	2.3	4.1	2.8	.6	.2							10.1	8.0	8.0
230-250	6.5	13.4	10.4	1.5	.1							31.9	8.0	8.0
(W) 260-280	3.8	4.5	1.7	.3	.1							10.5	6.4	6.0
290-310	2.8	1.5	.9	.1								5.3	5.1	4.0
320-340	1.8	.5										2.4	2.8	3.0
VARIABLE		.1	.6									.8	11.1	11.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	8.8	//////////	//////////
TOTALS	30.3	34.9	21.6	3.6	.4							100.0	6.3	6.0

TOTAL NUMBER OF OBSERVATIONS 924

C - 4 - 6

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.8	.3									2.0	5.3	5.5
020-040	.3	.7	.2									1.2	6.5	6.0
050-070	4.8	3.8	2.3	.7								11.5	6.4	5.0
(E) 080-100	4.8	3.1	1.3	.4								9.6	5.6	4.5
110-130	.5	.1										.7	2.7	2.0
140-160	.3		.1	.1								.5	6.6	2.0
(S) 170-190	.7	.5	.5									1.7	6.6	7.0
200-220	3.2	3.9	3.5	1.1	.1							11.8	8.3	8.0
230-250	7.7	13.4	6.9	1.2			.1					29.3	7.3	7.0
(W) 260-280	4.8	3.8	1.5	.7	.1							10.9	6.2	5.0
290-310	2.7	.5	.7			.2						4.1	5.7	3.0
320-340	2.1	.4		.1								2.6	3.1	2.0
VARIABLE			.5	.1	.1							.8	13.6	12.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	13.3	//////////	//////////
TOTALS	32.8	31.0	17.8	4.4	.3	.2	.1					100.0	5.8	6.0

TOTAL NUMBER OF OBSERVATIONS 918

C - 4 - 7

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.4										1.2	4.2	3.0
020-040	.5	.8	.3	.2								1.9	7.5	6.0
050-070	4.8	4.8	2.6	.5	.1							12.9	6.5	6.0
(E) 080-100	5.2	2.6	.5	.2								8.6	4.7	4.0
110-130	.5											.5	1.8	2.0
140-160	.4	.1										.5	3.0	4.0
(S) 170-190	1.1	.9	.5	.1								2.6	6.0	5.0
200-220	1.6	2.3	2.5	.9								7.3	8.7	8.0
230-250	7.7	14.9	7.6	2.1	.3	.1						32.8	7.9	7.0
(W) 260-280	5.0	3.3	2.0	.7		.1	.1					11.1	6.5	5.0
290-310	1.6	.8	.1	.2	.2							2.9	6.1	4.0
320-340	.9	.1	.3									1.3	5.7	4.0
VARIABLE	.1		.2	.2								.5	11.8	12.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	15.8	//////	//////
TOTALS	30.2	31.0	16.6	5.1	.6	.2	.1					100.0	5.9	6.0

TOTAL NUMBER OF OBSERVATIONS 918

C - 4 - 8

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: ALL

DIRECTION	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND
(N) 350-010	.7	.7	.3									1.6	5.9	6.0
020-040	.7	.8	.3	.1								1.9	6.4	6.0
050-070	3.7	4.2	2.2	.6	.0							10.8	6.8	6.0
(E) 080-100	5.6	3.2	.9	.2								9.9	4.9	4.0
110-130	1.1	.1										1.2	2.8	2.0
140-160	.3	.1	.1	.0								.5	5.1	4.0
(S) 170-190	.8	.7	.6	.1								2.1	6.6	6.0
200-220	2.0	3.7	2.7	.8	.2							9.4	8.5	8.0
230-250	7.5	13.6	8.6	1.9	.2	.0	.0					31.7	7.8	8.0
(W) 260-280	5.2	3.9	1.8	.4	.0	.0	.0					11.3	5.9	5.0
290-310	2.5	.9	.7	.1	.0	.0						4.3	5.2	3.5
320-340	1.2	.5	.2	.0								1.9	4.2	3.0
VARIABLE	.0	.1	.3	.0	.0							.5	11.3	10.5
CALM	////	////	////	////	////	////	////	////	////	////	////	12.8	////	////
TOTALS	31.3	32.5	18.7	4.2	.4							100.0	5.9	6.0

TOTAL NUMBER OF OBSERVATIONS 7370

C - 4 - 9

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: ALL

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

DIRECTION	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND
(N) 350-010	.4	.4	.1									.9	5.8	5.5
020-040	.7	.5	.2									1.4	5.1	4.5
050-070	2.9	3.7	1.1	.2								8.0	5.7	5.0
(E) 080-100	5.6	2.4	.6	.1								8.7	4.3	4.0
110-130	1.1	.1										1.2	2.7	2.0
140-160	.2	.2	.1	.0								.5	6.6	5.0
(S) 170-190	.8	.7	.9	.2								2.6	7.6	8.0
200-220	2.4	6.0	4.7	1.3	.4							14.7	8.9	8.0
230-250	7.9	18.2	11.3	2.6	.3							40.4	8.2	8.0
(W) 260-280	4.1	3.1	.9	.2	.1							8.4	5.5	5.0
290-310	1.2	.5	.3			.0						2.1	4.9	4.0
320-340	.4	.3	.2	.0								.9	6.2	5.5
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	10.2	////	////
TOTALS	27.7	36.1	20.4	4.6	.8							100.0	6.4	7.0

TOTAL NUMBER OF OBSERVATIONS 3053

C - 4 - 10

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	1.2	.4									3.2	5.0	4.0
020-040	1.3	.7	.7									2.7	6.3	6.0
050-070	9.2	9.5	4.4	.5								23.6	6.2	6.0
(E) 080-100	7.9	5.5	3.2	.5								17.1	5.8	5.0
110-130	.6											.6	2.6	3.0
140-160	.1											.1	1.0	1.0
(S) 170-190	1.3	.2	.4									1.9	4.1	3.0
200-220	.9	1.9	1.2	.8	.4							5.2	9.5	8.5
230-250	3.9	6.9	2.9	1.1	.4							15.2	7.5	7.0
(W) 260-280	5.1	2.9	.8									8.8	4.5	4.0
290-310	2.5	.7	.1									3.3	3.4	2.0
320-340	1.3	.2										1.5	3.2	2.0
VARIABLE			.2	.1								.4	12.7	12.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	16.5	//////////	//////////
TOTALS	35.7	29.7	14.3	3.0	.8							100.0	5.1	5.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 11

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.7	.7									2.4	6.9	6.5
020-040	1.5	1.6	.7									3.9	5.6	5.0
050-070	8.6	10.8	4.4	.4								24.1	6.3	6.0
(E) 080-100	8.2	4.2	3.2	.5								16.1	5.8	4.0
110-130		.1										.1	7.0	7.0
140-160	.4											.4	1.7	2.0
(S) 170-190	.4	.7	.1									1.2	5.9	7.0
200-220	.9	1.6	1.3	.4	.2							4.5	9.2	9.0
230-250	5.2	6.2	3.7	.9	.5							16.5	7.8	7.0
(W) 260-280	4.1	1.9	1.2									7.2	5.2	4.0
290-310	2.5	.6	.2									3.3	3.1	2.0
320-340	1.3	.7	.2									2.2	4.6	4.0
VARIABLE		.1	.5									.6	12.0	14.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.6	//////////	//////////
TOTALS	34.0	29.2	16.2	2.2	.7							100.0	5.3	6.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 12

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.2	1.1	.6									1.9	7.2	7.5
020-040	2.0	2.0	.6									4.6	5.5	5.0
050-070	6.4	10.0	4.7	.2								21.3	6.7	6.0
(E) 080-100	7.4	4.5	3.9	.2								16.0	6.1	6.0
110-130	.7											.7	2.7	2.5
140-160		.2										.2	7.0	7.0
(S) 170-190	.5	.4	.1									.9	5.4	4.5
200-220	.9	2.0	2.0	.5								5.4	8.5	8.0
230-250	4.2	6.0	2.7	1.1	.2							14.3	7.7	8.0
(W) 260-280	4.7	3.1	1.5									9.3	5.7	4.0
290-310	2.1	.6	.2									2.9	3.9	3.0
320-340	2.1	.4	.1									2.6	3.2	2.0
VARIABLE		.4	.6									.9	10.6	11.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	18.8	//////////	//////////
TOTALS	31.2	30.7	17.0	2.0	.2							100.0	5.3	6.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 13

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.5	.5									3.2	5.6	7.0
020-040	1.1	1.8	.6									3.4	6.4	6.0
050-070	2.9	9.7	4.9	1.3								18.8	8.1	8.0
(E) 080-100	6.9	8.0	6.5	.6								22.0	7.1	7.0
110-130	.5		.1									.6	4.8	4.0
140-160	.2											.2	2.0	2.0
(S) 170-190	.2	.4										.6	5.0	6.0
200-220	.6	2.4	2.1	.5								5.5	9.1	9.0
230-250	5.4	7.3	4.1	1.1	.1	.2						18.3	7.5	7.0
(W) 260-280	4.6	4.1	.9	.1								9.8	5.3	5.0
290-310	1.6	1.4	.4									3.4	5.1	5.0
320-340	1.1	.8										1.9	4.3	4.0
VARIABLE		.5	.4									.8	9.7	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.4	//////////	//////////
TOTALS	26.3	37.9	20.5	3.6	.1	.2						100.0	6.3	7.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 14

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.4	1.2	.6									2.1	7.9	7.5
020-040	1.4	1.4	.5									3.3	6.1	6.0
050-070	2.9	8.0	6.0	.7								17.7	8.1	8.0
(E) 080-100	4.6	8.7	7.9	.9	.1							22.3	8.1	8.0
110-130	1.5	1.2	.6									3.3	5.7	5.0
140-160	.8	.4										1.2	3.5	2.5
(S) 170-190	.6	.6	.2									1.4	5.5	5.5
200-220	.7	2.1	1.6	.9								5.4	9.6	9.0
230-250	3.8	7.4	4.8	.9	.1							17.1	7.8	7.0
(W) 260-280	5.3	4.6	2.1	.7								12.7	6.3	5.5
290-310	2.4	1.5	.9	.1								4.9	5.9	5.5
320-340	.9	.8	.4									2.1	5.7	5.0
VARIABLE		.8	.7	.2								1.8	10.6	10.0
CALM	////	////	////	////	////	////	////	////	////	////	////	4.7	////	////
TOTALS	25.3	38.7	26.3	4.4	.2							100.0	7.2	7.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 15

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	1.2	.8									2.9	6.7	7.0
020-040	1.8	3.3	.2	.1								5.4	6.0	6.0
050-070	3.1	10.8	5.3	.2								19.4	7.6	8.0
(E) 080-100	5.2	6.5	4.9	1.2								17.8	7.6	8.0
110-130	2.4	1.1	.4	.1								3.9	4.8	4.0
140-160	1.1	.1	.1									1.3	3.3	2.0
(S) 170-190	.9	.6	.2									1.8	5.1	4.0
200-220	2.8	2.7	1.2	.7								7.4	6.9	7.0
230-250	5.1	6.4	4.4	1.2	.1							17.1	7.3	7.0
(W) 260-280	4.2	4.0	2.0	.1								10.4	6.0	5.5
290-310	1.4	2.2	1.3	.2								5.2	7.2	7.5
320-340	.9	.7										1.6	4.4	4.0
VARIABLE	.1	.8	.1	.1								1.2	8.3	8.0
CALM	////	////	////	////	////	////	////	////	////	////	////	4.6	////	////
TOTALS	29.9	40.4	20.9	3.9	.1							100.0	6.6	7.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 16

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.4	.9	.2									3.5	4.0	3.0
020-040	2.8	2.6	.2									5.7	4.8	4.5
050-070	5.1	10.2	3.9									19.2	6.6	6.0
(E) 080-100	6.4	8.6	3.5	.5								19.0	6.6	6.0
110-130	.8	.1										.9	2.4	2.0
140-160	.8	.6										1.4	3.8	3.5
(S) 170-190	1.2	.1										1.3	2.5	2.0
200-220	2.1	1.8	.7	.6								5.2	6.8	5.0
230-250	6.0	6.9	3.4	.4	.1							16.8	6.8	6.0
(W) 260-280	3.1	2.1	1.4	.1								6.7	5.9	6.0
290-310	2.8	1.5	.2									4.6	4.0	3.0
320-340	1.4	.4	.2									2.0	4.5	4.0
VARIABLE		.1	.4									.5	11.3	12.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	13.2	//////////	
TOTALS	34.9	35.9	14.1	1.6	.1							100.0	5.3	6.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 17

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	1.3	.1									3.5	4.2	3.5
020-040	1.9	.9	.5									3.3	4.9	4.0
050-070	6.4	9.3	4.2	.2								20.1	6.6	6.0
(E) 080-100	7.5	7.7	2.9	.6								18.7	6.1	6.0
110-130	1.6	.1										1.8	2.6	3.0
140-160	.4	.2										.6	3.6	2.0
(S) 170-190	.5	.7	.2									1.4	5.4	5.0
200-220	1.9	1.9	1.4	.2								5.4	7.0	6.0
230-250	4.6	6.7	3.3	.5								15.1	7.0	7.0
(W) 260-280	5.1	2.8	1.3	.1								9.3	5.2	4.0
290-310	2.4	.9	.1									3.4	4.2	4.0
320-340	.6		.1									.7	3.2	2.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	16.6	//////	//////
TOTALS	35.0	32.5	14.1	1.6								100.0	5.0	6.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 18

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: ALL

DIRECTION	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND
(N) 350-010	1.2	1.1	.5									2.8	5.7	5.0
020-040	1.7	1.8	.5	.0								4.0	5.6	5.0
050-070	5.6	9.8	4.7	.4								20.5	7.0	7.0
(E) 080-100	6.8	6.7	4.5	.6	.0							18.6	6.7	6.0
110-130	1.0	.3	.1	.0								1.5	4.3	4.0
140-160	.5	.2	.0									.7	3.5	2.0
(S) 170-190	.7	.5	.2									1.3	4.8	4.0
200-220	1.4	2.0	1.4	.6	.1							5.5	8.2	8.0
230-250	4.8	6.7	3.7	.9	.2	.0						16.3	7.4	7.0
(W) 260-280	4.5	3.2	1.4	.1								9.3	5.6	5.0
290-310	2.2	1.2	.4	.0								3.9	4.8	4.0
320-340	1.2	.5	.1									1.8	4.2	4.0
VARIABLE	.0	.3	.4	.1								.8	10.3	10.0
CALM	////	////	////	////	////	////	////	////	////	////	////	12.9	////	////
TOTALS	31.6	34.3	17.9	2.7	.3							100.0	5.7	6.0

TOTAL NUMBER OF OBSERVATIONS 6792

C - 4 - 19

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	.8	.4									2.7	5.0	4.0
020-040	1.6	1.7	1.0									4.3	6.4	7.0
050-070	4.7	7.1	3.1									15.0	6.5	6.0
(E) 080-100	5.8	5.5	2.2	.0								13.6	5.6	5.0
110-130	1.2	.3	.2									1.8	4.2	3.0
140-160	.4	.4										.8	4.3	4.0
(S) 170-190	.8	.6	.1									1.5	4.7	4.0
200-220	1.5	3.5	2.4	1.2	.1							8.7	8.8	8.0
230-250	5.1	10.8	7.8	1.1	.2							25.0	8.1	8.0
(W) 260-280	3.6	3.3	2.2	.2								9.3	6.5	6.0
290-310	2.2	.7	.1	.1								3.1	4.3	3.0
320-340	.9	.2										1.1	3.5	3.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	13.2	//////	//////
TOTALS	29.3	34.9	19.5	2.6	.3							100.0	5.9	6.0

TOTAL NUMBER OF OBSERVATIONS 2037

C - 4 - 20

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	.5	.2									2.7	3.8	3.0
020-040	2.3	1.0	.1									3.3	4.0	4.0
050-070	5.4	3.9	1.3	.1								10.6	5.2	4.0
(E) 080-100	5.5	1.7	.3									7.5	3.9	3.0
110-130	.6	.1										.8	3.4	4.0
140-160	1.0											1.0	2.6	2.0
(S) 170-190	1.1	1.0										2.0	4.3	4.0
200-220	2.0	4.2	2.0	.2	.3							8.8	8.0	8.0
230-250	5.4	10.5	8.2	.6								24.7	7.6	7.0
(W) 260-280	5.6	2.5	1.2	.1								9.4	4.7	4.0
290-310	2.6	1.0	.5	.1								4.2	4.6	3.0
320-340	1.3	.3	.1	.1								1.8	4.5	3.0
VARIABLE		.1										.1	9.0	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	23.0	//////////	//////////
TOTALS	34.7	26.8	13.9	1.2	.3							100.0	4.5	5.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 21

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	.9	.3									2.9	4.7	4.0
020-040	2.4	1.3										3.7	3.8	3.0
050-070	6.6	3.0	1.2									10.8	4.6	4.0
(E) 080-100	5.7	1.5	.4	.2								7.8	3.9	3.0
110-130	.1	.1										.2	6.0	6.0
140-160	.9											.9	2.5	2.0
(S) 170-190	.6	.5	.2	.1								1.5	5.8	5.0
200-220	2.7	4.3	3.3	.8								11.1	7.9	8.0
230-250	6.1	12.7	6.2	1.0	.1							26.1	7.4	7.0
(W) 260-280	5.4	1.3	1.4	.2								8.3	4.9	3.0
290-310	2.4	.9	.3	.1								3.7	4.9	4.0
320-340	.5											.5	2.0	2.0
VARIABLE				.1								.1	16.0	16.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	22.5	//////////	//////////
TOTALS	35.1	26.5	13.3	2.5	.1							100.0	4.6	5.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 22

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	.8	.1									2.0	4.5	3.0
020-040	1.4	1.6	.1									3.1	4.7	5.0
050-070	7.0	3.4	1.6	.1								12.2	5.0	4.0
(E) 080-100	5.6	1.8	.5									8.0	4.0	3.0
110-130	.4											.4	2.0	2.0
140-160	.2	.2										.4	4.0	3.5
(S) 170-190	1.0	1.7	.1									2.8	5.2	5.0
200-220	1.7	4.8	3.2	.4	.1							10.3	8.4	8.0
230-250	5.6	10.4	8.1	1.0	.3							25.4	8.0	8.0
(W) 260-280	5.1	2.3	1.5	.1								8.9	5.0	4.0
290-310	2.8	1.1	.3	.2								4.4	4.7	3.0
320-340	1.1	.3										1.4	2.8	2.0
VARIABLE			.2									.2	14.0	14.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	20.4	//////	//////
TOTALS	33.1	28.4	15.7	1.8	.4							100.0	5.0	6.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 23

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.3	.9	.1									1.3	6.4	6.5
020-040	.8	1.3	.3									2.4	6.2	6.0
050-070	3.7	4.0	2.7	.4								10.8	6.8	7.0
(E) 080-100	7.2	5.2	.8									13.1	4.8	4.0
110-130	1.2	.5										1.7	3.9	3.5
140-160	.8	.1	.1	.1								1.1	5.6	4.0
(S) 170-190	1.3	.8	.1	.1								2.3	5.0	4.0
200-220	1.5	4.5	5.1	1.6	.1							12.8	9.5	10.0
230-250	5.8	9.4	10.2	2.5	.3							28.2	8.9	9.0
(W) 260-280	4.3	3.0	2.3	.1								9.7	6.0	5.0
290-310	2.0	2.4	.1	.1								4.6	5.0	5.0
320-340	1.2	1.0	.3	.1								2.6	5.8	5.5
VARIABLE	.1	.2	.5	.1								1.0	9.9	10.0
CALM	////	////	////	////	////	////	////	////	////	////	////	8.6	////	////
TOTALS	30.2	33.3	22.6	5.1	.4							100.0	6.6	7.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 24

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.6	1.2	.4									2.3	6.5	6.0
020-040	.2	1.5	.4									2.2	7.6	7.0
050-070	1.9	3.7	1.4	.2								7.2	7.0	7.0
(E) 080-100	4.3	4.9	1.3									10.5	5.5	5.0
110-130	2.7	1.2										3.9	3.8	4.0
140-160	1.3	.9	.1									2.3	4.1	3.0
(S) 170-190	.9	1.4	.6									2.9	6.4	7.0
200-220	1.8	5.1	4.3	2.3	.2	.1						13.8	10.0	9.5
230-250	3.1	9.4	11.5	4.2	.2							28.4	9.8	10.0
(W) 260-280	2.8	5.3	3.2	.2		.1						11.6	7.6	7.5
290-310	1.6	3.2	1.3									6.1	6.7	6.0
320-340	1.7	1.4	.1	.1								3.3	5.1	4.0
VARIABLE	.1	1.5	.6	.1	.1							2.5	9.4	9.0
CALM	////	////	////	////	////	////	////	////	////	////	////	3.1	////	////
TOTALS	23.0	40.7	25.2	7.1	.5	.2						100.0	7.7	8.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 25

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	1.4	.6									3.0	6.3	6.0
020-040	.9	1.1	.6	.1								2.7	6.8	6.0
050-070	1.4	4.5	1.4									7.3	6.9	7.0
(E) 080-100	3.3	4.3	1.2									8.8	5.7	6.0
110-130	1.1	.9	.2									2.2	4.8	4.5
140-160	.6	.6										1.3	4.4	4.0
(S) 170-190	1.7	2.6	1.4									5.7	6.5	6.0
200-220	1.7	5.1	3.7	.9	.3	.1						11.7	9.1	8.0
230-250	3.4	9.4	10.8	2.8	.2							26.6	9.3	10.0
(W) 260-280	2.8	5.2	2.4	.2		.2						10.8	7.5	8.0
290-310	3.2	4.4	1.4	.1								9.1	6.2	6.0
320-340	2.5	1.9	.5									4.9	5.3	4.5
VARIABLE		.6	.6	.1								1.4	9.8	10.0
CALM	////	////	////	////	////	////	////	////	////	////	////	4.5	////	////
TOTALS	23.6	42.0	24.8	4.2	.5	.3						100.0	7.2	7.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 26

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	1.5										4.2	4.4	4.0
020-040	2.2	1.5	.2									3.9	4.8	4.0
050-070	5.2	2.2	1.0									8.3	4.8	4.0
(E) 080-100	4.5	3.0	.3									7.9	4.2	4.0
110-130	1.7	.3										2.0	2.5	2.0
140-160	.9	.4										1.3	4.1	3.0
(S) 170-190	2.8	2.2	.2									5.2	4.6	4.0
200-220	3.1	4.0	2.5	.4	.3							10.3	7.4	6.0
230-250	5.7	10.7	5.9	1.4	.5							24.2	8.0	8.0
(W) 260-280	3.4	2.8	1.1	.6	.1							8.1	6.6	5.0
290-310	3.3	2.4	.4	.1								6.2	4.9	4.0
320-340	2.4	.6										3.0	3.6	4.0
VARIABLE		.1	.1									.2	10.0	10.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	15.2	//////	//////
TOTALS	37.9	31.7	11.7	2.5	.9							100.0	5.1	5.0

TOTAL NUMBER OF OBSERVATIONS 929

C - 4 - 27

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	.6	.1									2.6	4.0	3.0
020-040	2.3	1.7	.6									4.6	5.1	5.0
050-070	5.5	3.0	.5									9.0	4.5	4.0
(E) 080-100	5.9	2.5	.3	.1								8.8	3.8	3.0
110-130	1.2	.1										1.3	2.0	1.5
140-160	1.2	.1										1.3	3.0	3.0
(S) 170-190	1.7	.6	.1									2.5	3.6	3.0
200-220	1.0	5.1	2.0	.9	.4							9.4	9.0	8.0
230-250	6.1	9.7	5.4	1.6	.2							23.0	7.6	7.0
(W) 260-280	3.8	2.7	.8	.4	.1							7.7	5.9	5.0
290-310	3.3	1.3	.4	.2								5.3	4.6	3.0
320-340	1.5	.4										1.9	3.1	2.0
VARIABLE			.2									.2	11.5	11.5
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	22.4	//////////	//////////
TOTALS	35.3	27.8	10.4	3.2	.7							100.0	4.6	5.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 28

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.0	.2									2.6	4.9	4.0
020-040	1.5	1.4	.3	.0								3.2	5.2	5.0
050-070	4.6	3.5	1.4	.1								9.5	5.5	5.0
(E) 080-100	5.3	3.1	.6	.0								9.1	4.6	4.0
110-130	1.1	.4	.0									1.6	3.6	3.0
140-160	.8	.3	.0	.0								1.2	3.9	3.0
(S) 170-190	1.4	1.3	.3	.0								3.1	5.3	5.0
200-220	1.9	4.6	3.3	.9	.2	.0						11.0	8.7	8.0
230-250	5.2	10.3	8.3	1.9	.2							25.8	8.4	8.0
(W) 260-280	4.1	3.1	1.7	.3	.0	.0						9.3	6.1	5.0
290-310	2.7	2.1	.6	.1								5.5	5.3	5.0
320-340	1.5	.8	.1	.0								2.4	4.5	4.0
VARIABLE	.0	.3	.3	.1	.0							.7	10.0	10.0
CALM	////	////	////	////	////	////	////	////	////	////	////	15.0	////	////
TOTALS	31.5	32.2	17.1	3.4	.4							100.0	5.7	6.0

TOTAL NUMBER OF OBSERVATIONS 7439

C - 4 - 29

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	1.3	.1									2.3	5.2	5.0
020-040	1.6	1.8	.2	.0								3.7	5.4	5.0
050-070	3.9	2.3	.8	.1								7.2	5.2	4.0
(E) 080-100	4.3	2.6	.1									7.0	3.8	3.0
110-130	1.1	.2										1.3	3.0	3.0
140-160	1.0	.3										1.3	3.5	3.0
(S) 170-190	1.0	1.4	.3									2.6	5.6	5.0
200-220	1.9	6.2	5.9	1.6	.2	.0						15.9	9.4	9.0
230-250	5.4	15.4	12.3	1.9	.2							35.3	8.5	8.0
(W) 260-280	3.0	2.4	1.9	.2								7.5	6.4	6.0
290-310	1.6	1.1	.4	.1								3.3	5.5	5.0
320-340	.9	.4	.0	.1								1.5	4.9	4.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.3	//////////	
TOTALS	26.6	35.4	22.0	4.0	.4							100.0	6.4	7.0

TOTAL NUMBER OF OBSERVATIONS 2061

C - 4 - 30

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.1	2.6	.7									5.3	5.6	5.0
020-040	2.0	2.3	.8	.1								5.2	5.7	6.0
050-070	7.7	6.6	1.7	.3								16.2	5.4	5.0
(E) 080-100	5.9	2.0	.6	.1								8.6	4.0	3.0
110-130	.8	.1										.9	2.5	2.0
140-160	.3											.3	3.0	3.0
(S) 170-190	.9	.4	.1									1.4	4.7	4.0
200-220	2.0	3.0	1.0	.1								6.1	6.2	6.0
230-250	4.6	3.8	1.4		.1							9.9	5.4	5.0
(W) 260-280	6.4	2.4	.2									9.1	3.5	3.0
290-310	3.3	.8										4.1	3.3	3.0
320-340	1.8	.2		.1								2.1	3.5	3.0
VARIABLE		.1	.2	.2								.6	12.8	12.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	30.1	//////	//////
TOTALS	37.8	24.3	6.7	.9	.1							100.0	3.4	4.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 31

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	2.7	.3									5.7	4.8	5.0
020-040	1.4	2.1	1.1									4.7	6.8	8.0
050-070	6.9	7.0	2.4									16.3	5.7	5.0
(E) 080-100	5.4	1.4	.9									7.8	4.2	3.0
110-130	.8											.8	1.7	2.0
140-160	.6	.2										.8	3.6	2.0
(S) 170-190	2.0	.3										2.3	3.2	3.0
200-220	1.4	2.3	1.1									4.9	7.0	8.0
230-250	4.3	5.2	1.1	.2	.1							11.0	5.8	5.0
(W) 260-280	6.1	2.6	.2									8.9	3.6	3.0
290-310	3.2	1.0										4.2	3.3	3.0
320-340	1.4	.4										1.9	3.5	4.0
VARIABLE		.1		.2								.3	13.7	16.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	30.4	//////////	//////////
TOTALS	36.2	25.3	7.1	.4	.1							100.0	3.5	4.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 32

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	1.3	.2	.3								3.1	6.4	5.5
020-040	1.6	1.7	.8									4.0	5.9	6.5
050-070	5.0	7.8	2.3	.2								15.3	6.4	6.0
(E) 080-100	8.0	3.2	1.0	.3								12.6	4.6	3.0
110-130	.4											.4	2.5	2.5
140-160	.8	.1										.9	2.9	2.5
(S) 170-190	1.3	.1	.2									1.7	4.3	3.0
200-220	2.1	2.7	1.6	.1								6.4	6.8	6.0
230-250	4.3	5.4	2.1									11.9	6.0	6.0
(W) 260-280	6.9	2.4	.2									9.6	3.5	3.0
290-310	3.4	1.1										4.6	3.3	3.0
320-340	2.1	1.4										3.6	4.0	4.0
VARIABLE			.2									.2	10.0	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	25.8	//////////	//////////
TOTALS	37.1	27.2	8.6	.9								100.0	3.9	4.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 33

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	1.4	1.7	.2								4.4	7.9	6.0
020-040	1.4	2.3	1.0	.1								4.9	6.9	7.5
050-070	2.8	5.0	4.9	.4								13.1	8.0	8.0
(E) 080-100	5.7	7.7	3.1	.4								16.9	6.5	6.0
110-130	2.3	1.3	.1									3.8	4.2	4.0
140-160	1.1	.1										1.2	3.1	3.0
(S) 170-190	1.3	1.1	.6									3.0	5.6	6.0
200-220	2.1	4.2	2.4	.4								9.2	7.7	8.0
230-250	4.7	6.1	4.3									15.1	6.8	7.0
(W) 260-280	3.8	4.8	1.1									9.7	5.5	5.0
290-310	2.2	3.4	.3									6.0	5.1	5.0
320-340	1.4	2.1	.7									4.2	5.4	5.5
VARIABLE		1.2	.2									1.4	7.9	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	7.0	//////////	//////////
TOTALS	29.9	40.7	20.4	1.5								100.0	6.1	6.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 34

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	1.7	1.7	.4								5.2	7.9	8.0
020-040	.8	2.9	1.9									5.6	7.8	8.0
050-070	2.4	4.9	4.2	.2								11.8	7.9	8.0
(E) 080-100	3.0	5.8	3.0	.1								11.9	7.0	7.0
110-130	1.6	2.3										3.9	4.9	5.0
140-160	1.9	1.2	.1									3.2	4.5	4.0
(S) 170-190	1.0	3.6	.9	.3								5.8	7.2	6.5
200-220	2.1	3.7	3.7	.6								10.0	8.4	8.0
230-250	3.6	4.7	5.3	.4								14.0	7.5	7.0
(W) 260-280	3.0	3.6	1.8									8.3	6.0	6.0
290-310	2.1	4.0	.8									6.9	6.1	6.0
320-340	2.6	4.2	.8									7.6	5.8	5.5
VARIABLE		1.8	1.4									3.2	8.7	9.0
CALM	////	////	////	////	////	////	////	////	////	////	////	2.7	////	////
TOTALS	25.5	44.4	25.6	2.0								100.0	6.9	7.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 35

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.6	2.4	2.1	.2								7.3	6.9	6.5
020-040	2.1	3.6	2.1									7.8	7.0	7.0
050-070	1.9	5.7	4.1	.1								11.8	7.9	8.0
(E) 080-100	3.4	5.3	2.0									10.8	6.3	6.0
110-130	1.3	1.2	.2	.1								2.9	5.4	5.0
140-160	2.1	.8	.1									3.0	4.1	3.0
(S) 170-190	2 2	3.1	1.2									6.6	6.3	6.0
200-220	2.7	3.3	2.2	.2								8.4	7.3	7.0
230-250	4.1	4.7	3.1	.1								12.0	6.7	6.0
(W) 260-280	2.3	5.2	.9									8.4	6.1	6.0
290-310	1.9	5.0	.8									7.7	6.0	6.0
320-340	2.6	4.7	1.7									8.9	6.5	7.0
VARIABLE		.8	1.1									1.9	9.3	10.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	2.6	//////	//////
TOTALS	29.2	45.8	21.6	.7								100.0	6.5	6.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 36

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.7	4.3	1.0									9.0	5.6	5.0
020-040	3.7	5.8	1.0	.1								10.6	5.8	5.0
050-070	4.6	6.2	1.2	.2								12.2	5.9	6.0
(E) 080-100	5.4	4.0	.6									10.0	4.6	4.0
110-130	2.4	.8	.1									3.3	3.8	3.0
140-160	1.3	.4										1.8	3.7	3.5
(S) 170-190	2.1	1.2	.7	.1								4.1	5.8	4.0
200-220	2.8	1.6	2.0	.1								6.4	6.8	6.0
230-250	4.3	3.9	.7	.1								9.0	5.3	5.0
(W) 260-280	3.7	2.4										6.1	4.1	4.0
290-310	3.6	4.7	.4									8.7	4.9	5.0
320-340	2.8	3.4	.7	.1								7.0	5.3	5.0
VARIABLE		.2	.1									.3	8.0	7.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	11.4	//////////	//////////
TOTALS	40.4	38.9	8.5	.7								100.0	4.7	5.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 37

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.8	3.8	.3									8.9	4.5	4.0
020-040	3.0	5.4	.3	.1								8.9	5.6	6.0
050-070	6.4	6.0	1.6	.2								14.2	5.5	5.0
(E) 080-100	7.7	2.0	.6									10.2	3.4	3.0
110-130	1.2	.2										1.4	3.2	2.0
140-160	.6	.2										.8	3.1	2.0
(S) 170-190	1.8	.2	.2									2.2	3.8	3.0
200-220	2.1	2.2	1.3	.1								5.8	6.6	6.5
230-250	5.4	2.9	1.2									9.6	4.8	4.0
(W) 260-280	5.2	1.2										6.4	3.2	2.5
290-310	3.8	2.8	.2									6.8	3.9	4.0
320-340	2.6	1.0	.2									3.8	3.9	3.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	21.0	//////	//////
TOTALS	44.6	27.9	5.9	.4								100.0	3.6	4.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 38

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.4	2.5	1.0	.2								6.1	6.0	5.0
020-040	2.0	3.3	1.1	.1								6.4	6.4	6.0
050-070	4.7	6.1	2.8	.2								13.9	6.5	6.0
(E) 080-100	5.6	3.9	1.5	.1								11.1	5.3	4.0
110-130	1.4	.8	.1	.0								2.2	4.2	4.0
140-160	1.1	.4	.0									1.5	3.8	3.0
(S) 170-190	1.6	1.3	.5	.1								3.4	5.7	5.0
200-220	2.2	2.9	1.9	.2								7.2	7.2	7.0
230-250	4.4	4.6	2.4	.1	.0							11.6	6.2	6.0
(W) 260-280	4.7	3.1	.6									8.3	4.5	4.0
290-310	2.9	2.8	.3									6.1	4.7	5.0
320-340	2.2	2.2	.5	.0								4.9	5.3	5.0
VARIABLE		.5	.4	.1								1.0	9.2	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	16.4	//////////	//////////
TOTALS	35.2	34.4	13.1	1.1								100.0	4.8	5.0

TOTAL NUMBER OF OBSERVATIONS 7200

C - 4 - 39

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.8	2.3	.7	.2								5.0	6.3	6.0
020-040	3.3	4.1	.7									8.2	5.5	5.0
050-070	2.8	4.1	2.8	.5								10.2	7.5	7.0
(E) 080-100	2.8	1.9	.3	.3								5.4	5.3	4.0
110-130	.6	.1										.7	2.5	2.0
140-160	.4											.4	2.2	2.0
(S) 170-190	2.1	1.0	.3									3.4	4.9	4.0
200-220	3.2	4.7	3.3	.5								11.7	7.8	8.0
230-250	5.7	8.2	3.6		.1							17.6	6.3	6.0
(W) 260-280	5.9	5.9	.7									12.5	4.7	5.0
290-310	2.8	4.0	.2									7.0	5.0	5.0
320-340	2.1	1.8										4.0	4.3	4.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.9	////	////
TOTALS	33.5	38.1	12.6	1.5	.1							100.0	5.1	6.0

TOTAL NUMBER OF OBSERVATIONS 1212

C - 4 - 40

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	1.7	.1									3.8	4.3	4.0
020-040	2.8	1.5	.8									5.1	5.1	4.0
050-070	9.2	6.7	.5									16.5	4.5	4.0
(E) 080-100	5.5	.6	.2									6.3	3.0	2.0
110-130	.1	.2										.3	4.7	5.0
140-160	.5											.5	1.6	2.0
(S) 170-190	.5	.4	.1									1.1	5.0	4.5
200-220	2.5	2.0	1.0									5.5	5.7	6.0
230-250	6.5	4.2	.3									11.0	4.5	4.0
(W) 260-280	4.3	.8										5.1	2.9	2.0
290-310	2.3	.4										2.7	2.7	2.0
320-340	2.0	.6										2.7	3.2	2.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	39.6	//////////	//////////
TOTALS	38.1	19.1	3.0									100.0	2.5	4.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 41

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	1.1	.2									2.4	5.0	5.0
020-040	2.0	2.4	.1									4.5	4.6	5.0
050-070	10.1	8.5	.6									19.2	4.6	4.0
(E) 080-100	4.6	1.0	.2									5.8	3.4	3.0
110-130	.8											.8	2.1	2.0
140-160	.3											.3	1.3	1.0
(S) 170-190	.4	.4	.1									1.0	5.2	5.0
200-220	1.5	3.2	.8									5.5	6.3	6.0
230-250	6.5	5.5	.6									12.6	4.8	4.0
(W) 260-280	4.3	1.0	.1									5.4	2.9	2.0
290-310	3.1	.4										3.5	2.6	2.0
320-340	1.1	1.1										2.2	4.1	4.5
VARIABLE		.1										.1	7.0	7.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	36.8	//////////	//////////
TOTALS	35.8	24.7	2.7									100.0	2.8	4.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 42

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	1.4	.3									2.5	6.4	6.0
020-040	1.4	1.8	.2									3.4	5.4	5.0
050-070	7.6	8.9	2.6									19.1	5.7	5.0
(E) 080-100	9.5	4.2	.5									14.2	3.9	3.0
110-130	.3											.3	2.3	2.0
140-160	.9											.9	2.5	2.0
(S) 170-190	1.1	.4	.2									1.7	4.6	4.0
200-220	2.7	3.9	1.3									7.8	6.4	6.0
230-250	7.6	7.4	.9	.1								16.0	4.9	5.0
(W) 260-280	4.5	2.0										6.6	3.4	3.0
290-310	2.7	.9										3.5	3.4	3.0
320-340	1.3	.6	.2									2.2	4.2	3.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	21.7	//////	//////
TOTALS	40.4	31.5	6.2	.1								100.0	3.8	4.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 43

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.6	1.5	.6									2.8	7.0	7.5
020-040	.4	1.6	.9									2.9	7.6	9.0
050-070	2.5	8.1	2.4	.1								13.0	7.0	7.0
(E) 080-100	5.7	8.3	3.0									17.0	6.1	6.0
110-130	3.5	1.1	.3									4.9	3.7	3.0
140-160	1.4	.2										1.6	2.7	2.0
(S) 170-190	1.9	1.8	.8									4.5	5.6	6.0
200-220	4.1	5.8	3.0	.2								13.1	6.5	6.0
230-250	6.2	7.0	3.3	.5								17.1	6.3	6.0
(W) 260-280	4.5	3.9	.3									8.7	4.5	4.0
290-310	2.2	1.5	.5									4.2	4.9	4.0
320-340	1.5	1.2	.1									2.8	4.5	4.0
VARIABLE		1.0	.2									1.2	8.0	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	6.1	//////////	//////////
TOTALS	34.5	43.0	15.4	.8								100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 44

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.4	1.4	1.1									2.9	7.7	8.0
020-040	1.1	2.5	.6									4.2	6.6	7.0
050-070	2.7	6.0	2.0									10.8	6.8	7.0
(E) 080-100	3.0	7.1	2.7	.1								12.9	6.7	6.0
110-130	2.3	2.9	.6									5.8	5.6	5.0
140-160	1.7	1.2	.1									3.0	4.4	4.0
(S) 170-190	1.7	1.6	.8	.1								4.2	6.3	6.0
200-220	3.0	5.6	3.4	.1								12.2	7.2	8.0
230-250	6.0	8.5	4.3	.2								19.0	6.8	6.0
(W) 260-280	5.2	4.4	1.0	.1								10.6	5.2	5.0
290-310	2.7	1.9	.4									5.1	5.0	4.0
320-340	1.9	1.7	.2									3.9	4.7	4.5
VARIABLE		1.6	.8									2.4	8.5	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	3.1	//////////	//////////
TOTALS	31.7	46.4	18.0	.6								100.0	6.2	6.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 45

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	3.1	.9									5.5	6.6	7.0
020-040	1.2	2.7	1.1									4.9	6.7	6.0
050-070	2.2	5.6	1.6									9.4	6.5	7.0
(E) 080-100	4.1	7.2	1.6	.1								13.0	6.3	6.0
110-130	2.7	1.8	.5									5.1	4.8	4.0
140-160	1.4	.8										2.2	3.4	3.0
(S) 170-190	2.2	2.2	1.0									5.3	5.8	6.0
200-220	3.7	4.7	2.8									11.2	6.6	7.0
230-250	5.3	7.0	4.5	.4	.1							17.3	7.0	7.0
(W) 260-280	3.3	3.5	.9									7.7	5.3	5.0
290-310	3.9	2.9	1.0									7.7	5.2	4.5
320-340	2.8	2.4	.2									5.4	4.6	4.0
VARIABLE	.1	1.0	.3									1.4	7.9	8.0
CALM	////	////	////	////	////	////	////	////	////	////	////	4.0	////	////
TOTALS	34.4	44.9	16.4	.5	.1							100.0	5.9	6.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 46

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.0	2.5	1.0	.1								6.6	5.6	5.0
020-040	3.2	3.7	.4									7.3	5.1	5.0
050-070	5.4	5.5	.8									11.6	5.1	5.0
(E) 080-100	5.1	4.1	.9									10.0	4.9	4.0
110-130	1.6	.6	.2	.1								2.6	4.4	4.0
140-160	1.3	.4										1.7	3.3	3.0
(S) 170-190	2.0	1.1	.3									3.4	4.7	4.0
200-220	2.8	3.8	1.0	.2								7.7	6.1	6.0
230-250	8.1	6.8	1.8									16.7	4.9	5.0
(W) 260-280	4.1	1.8										5.9	3.7	3.0
290-310	4.0	1.8										5.8	3.5	3.0
320-340	3.7	2.0	.1									5.8	3.9	3.0
VARIABLE		.1										.1	8.0	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	14.7	//////////	//////////
TOTALS	44.3	34.2	6.5	.4								100.0	4.1	4.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 47

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	3.0	.5	.1								6.3	5.0	5.0
020-040	4.4	3.3										7.7	4.2	4.0
050-070	9.2	4.5	.3									14.1	4.0	3.0
(E) 080-100	5.8	1.2										7.0	3.0	2.0
110-130	.4											.4	1.3	1.0
140-160	.2	.1										.3	3.0	2.0
(S) 170-190	1.4	.1										1.5	2.4	2.0
200-220	1.8	3.1	.6	.1								5.7	6.0	6.0
230-250	7.6	2.8	.4									10.9	3.8	3.0
(W) 260-280	4.2	1.2	.2									5.6	3.6	3.0
290-310	3.1	.2	.1									3.4	2.5	2.0
320-340	1.8	.9										2.7	3.4	3.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	34.3	////	////
TOTALS	42.6	20.4	2.1	.2								100.0	2.6	3.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 48

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	2.0	.6	.0								4.1	5.8	6.0
020-040	2.1	2.4	.5									5.0	5.4	5.0
050-070	6.1	6.7	1.4	.0								14.2	5.4	5.0
(E) 080-100	5.4	4.2	1.1	.0								10.8	5.1	4.0
110-130	1.5	.8	.2	.0								2.5	4.5	4.0
140-160	1.0	.3	.0									1.3	3.3	3.0
(S) 170-190	1.4	1.0	.4	.0								2.8	5.3	5.0
200-220	2.8	4.0	1.7	.1								8.6	6.5	6.0
230-250	6.7	6.1	2.0	.2	.0							15.1	5.6	5.0
(W) 260-280	4.3	2.3	.3	.0								6.9	4.1	4.0
290-310	3.0	1.3	.3									4.5	4.0	4.0
320-340	2.0	1.3	.1									3.4	4.1	4.0
VARIABLE	.0	.5	.2									.6	8.2	8.0
CALM	////	////	////	////	////	////	////	////	////	////	////	20.0	////	////
TOTALS	37.8	32.9	8.8	.3								100.0	4.2	5.0

TOTAL NUMBER OF OBSERVATIONS 7440

C - 4 - 49

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	1.8	.8									3.5	6.9	6.0
020-040	.7	2.6	.8									4.0	7.0	7.0
050-070	2.8	5.4	.8									8.9	5.7	6.0
(E) 080-100	3.3	1.9	.2									5.5	4.4	4.0
110-130	.8	.2										1.0	3.3	3.0
140-160	.4	.1										.6	2.6	2.0
(S) 170-190	1.6	.6	.6									2.7	4.8	3.5
200-220	3.9	9.2	3.0	.1								16.2	6.8	7.0
230-250	9.0	13.8	2.7	.1								25.7	5.9	6.0
(W) 260-280	6.3	3.8	.3									10.4	4.3	4.0
290-310	3.1	1.3	.3									4.8	4.0	4.0
320-340	1.5	1.8	.1									3.3	4.9	5.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.5	////	////
TOTALS	34.3	42.5	9.6	.2								100.0	4.9	5.0

TOTAL NUMBER OF OBSERVATIONS 896

C - 4 - 50

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.9	.3										3.2	2.6	2.0
020-040	2.9	1.8										4.7	3.8	3.0
050-070	7.0	3.2	.1									10.3	3.6	3.0
(E) 080-100	3.6	.3	.3									4.2	3.0	2.0
110-130	1.0											1.0	1.3	1.0
140-160	.2											.2	3.0	3.0
(S) 170-190	1.0	.2										1.2	2.2	1.0
200-220	1.3	1.7	.2									3.2	4.7	5.0
230-250	11.0	5.1	.6									16.7	4.0	3.0
(W) 260-280	9.3	2.4										11.8	3.0	2.5
290-310	4.6	.6										5.1	2.5	2.0
320-340	2.1	.3										2.4	3.0	2.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	35.9	//////	//////
TOTALS	46.9	15.9	1.2									100.0	2.2	3.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 51

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	.4	.1									2.9	3.3	3.0
020-040	1.9	.8	.1									2.8	4.0	4.0
050-070	8.1	2.2	.3									10.7	3.3	3.0
(E) 080-100	4.7	.7										5.3	2.6	2.0
110-130	.8											.8	1.6	1.0
140-160	.4											.4	1.0	1.0
(S) 170-190	.4											.4	1.5	1.5
200-220	2.2	1.4										3.7	3.9	4.0
230-250	11.3	6.9	.8	.2	.1							19.3	4.5	4.0
(W) 260-280	9.2	1.6	.1									10.9	2.8	2.0
290-310	4.4	.7										5.1	2.3	2.0
320-340	2.2	.2										2.4	3.0	3.5
VARIABLE		.1										.1	7.0	7.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	35.1	//////////	//////////
TOTALS	47.9	15.0	1.4	.2	.1							100.0	2.2	3.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 52

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	.4	.2									1.8	4.6	3.5
020-040	1.9	1.1	.3									3.3	4.9	4.0
050-070	7.4	4.8	.4	.1								12.8	4.2	4.0
(E) 080-100	6.9	1.2	.2									8.3	3.2	2.0
110-130	.7											.7	1.5	1.5
140-160	.4											.4	1.8	1.5
(S) 170-190	1.2	.2										1.4	3.1	3.0
200-220	2.9	3.0	.2									6.1	4.7	5.0
230-250	11.4	8.8	1.1	.1								21.4	4.8	4.0
(W) 260-280	10.1	3.1	.4									13.7	3.6	3.0
290-310	3.1	1.1										4.2	3.6	3.0
320-340	2.0	.8										2.8	3.7	3.0
VARIABLE		.7	.4									1.1	8.9	9.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	21.9	//////	//////
TOTALS	49.1	25.2	3.2	.2								100.0	3.3	4.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 53

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.3	1.9	.1									2.3	5.7	6.0
020-040	.9	1.9	.1	.1								3.0	5.7	6.0
050-070	2.8	6.0	1.8									10.6	6.5	6.0
(E) 080-100	4.7	4.1	.6									9.3	4.8	4.5
110-130	2.9	.2										3.1	3.0	3.0
140-160	1.7											1.7	2.6	2.0
(S) 170-190	1.2	.2										1.4	3.2	3.0
200-220	2.8	5.1	1.9	.1								9.9	6.7	6.0
230-250	9.1	10.8	4.2									24.1	6.0	6.0
(W) 260-280	6.7	5.3	1.1									13.1	4.8	4.0
290-310	3.6	3.0	.2									6.8	4.5	4.0
320-340	2.4	1.3										3.8	4.0	4.0
VARIABLE	.2	2.8	1.2									4.2	8.5	8.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	6.7	//////	//////
TOTALS	39.3	42.6	11.2	.2								100.0	5.2	5.0

TOTAL NUMBER OF OBSERVATIONS 900

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	1.0	.1									2.1	5.2	5.0
020-040	1.7	2.3	.9									4.9	5.8	5.0
050-070	2.0	5.4	1.3									8.8	6.5	6.0
(E) 080-100	3.4	2.2	.9									6.6	5.4	4.0
110-130	2.0	.8										2.8	3.6	3.0
140-160	1.2	.1	.1									1.4	2.9	2.0
(S) 170-190	1.7	.8		.2								2.7	4.8	4.0
200-220	2.7	5.2	1.4	.1		.1						9.6	6.6	6.0
230-250	6.4	12.7	5.0	.1								24.2	6.6	7.0
(W) 260-280	4.8	8.7	.9									14.3	5.7	6.0
290-310	3.9	5.3	.3									9.6	5.1	5.0
320-340	3.2	2.6										5.8	4.4	4.0
VARIABLE	.1	3.0	1.7									4.8	8.7	8.0
CALM	////	////	////	////	////	////	////	////	////	////	////	2.6	////	////
TOTALS	34.1	50.1	12.6	.4		.1						100.0	5.8	6.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 55

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	1.1	.3									3.8	4.4	4.0
020-040	2.1	2.6	.4									5.1	5.7	5.0
050-070	2.8	6.4	1.8									11.0	6.6	6.0
(E) 080-100	2.7	2.2	.2									5.1	5.1	4.0
110-130	2.1	.2	.1									2.4	3.4	3.0
140-160	1.4											1.4	2.2	2.0
(S) 170-190	1.4	.7	.2									2.3	4.0	3.0
200-220	2.4	3.3	1.3	.1								7.2	6.3	6.0
230-250	6.4	12.3	3.1									21.9	6.4	6.0
(W) 260-280	4.9	9.2	2.2									16.3	6.0	6.0
290-310	4.8	5.4	.3									10.6	5.1	5.0
320-340	3.1	3.7	.1									6.9	4.8	5.0
VARIABLE		2.2	.9									3.1	8.6	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	2.8	//////////	//////////
TOTALS	36.4	49.3	10.9	.1								100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 56

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.6	3.4	.3									7.3	4.8	5.0
020-040	4.3	4.6	.3									9.2	5.1	5.0
050-070	5.0	5.0	.3									10.3	4.9	5.0
(E) 080-100	3.0	.8	.1									3.9	3.6	3.0
110-130	1.4											1.4	1.4	1.0
140-160	.8	.1										.9	2.4	2.0
(S) 170-190	1.4	.2										1.7	2.7	2.0
200-220	3.7	2.7	.1									6.4	4.3	4.0
230-250	8.4	11.3	1.1									20.9	5.1	5.0
(W) 260-280	6.8	5.1	.6									12.4	4.5	4.0
290-310	6.3	3.3	.1									9.8	3.7	4.0
320-340	4.0	1.9										5.9	4.0	4.0
VARIABLE		.8										.8	7.4	7.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	9.0	//////////	//////////
TOTALS	48.7	39.2	2.9									100.0	4.1	4.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 57

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	4.6	2.0										6.6	3.5	4.0
020-040	7.2	2.6										9.8	3.6	3.5
050-070	7.8	1.8										9.6	3.2	3.0
(E) 080-100	4.0	.6	.1									4.7	3.0	3.0
110-130	.6											.6	1.4	1.0
140-160	.8											.8	1.4	1.0
(S) 170-190	.6		.1									.7	4.3	3.5
200-220	3.1	1.1	.2									4.4	3.7	3.0
230-250	9.0	4.9	.3									14.2	3.9	4.0
(W) 260-280	8.3	2.2	.1									10.7	3.2	3.0
290-310	4.7	.7										5.3	2.7	2.0
320-340	4.0	1.0										5.0	2.9	3.0
VARIABLE		.1										.1	7.0	7.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	27.7	//////////	//////////
TOTALS	54.7	17.0	.8									100.0	2.4	3.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 58

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: ALL

DIRECTION	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
(DEGREES)												%	WIND	WIND
(N) 350-010	2.3	1.3	.2									3.7	4.2	4.0
020-040	2.9	2.2	.3	.0								5.3	4.7	4.0
050-070	5.4	4.4	.8	.0								10.5	4.8	4.0
(E) 080-100	4.1	1.5	.3									5.9	3.9	3.0
110-130	1.4	.2	.0									1.6	2.7	2.0
140-160	.9	.0	.0									.9	2.3	2.0
(S) 170-190	1.1	.3	.0	.0								1.5	3.5	3.0
200-220	2.6	2.9	.7	.0		.0						6.3	5.5	5.0
230-250	9.2	9.1	2.0	.1	.0							20.3	5.3	5.0
(W) 260-280	7.5	4.7	.7									12.9	4.3	4.0
290-310	4.4	2.5	.1									7.1	4.0	4.0
320-340	2.9	1.5	.0									4.4	3.9	4.0
VARIABLE	.0	1.2	.5									1.8	8.5	8.0
CALM	////	////	////	////	////	////	////	////	////	////	////	17.7	////	////
TOTALS	44.7	31.8	5.6	.1								100.0	3.8	4.0

TOTAL NUMBER OF OBSERVATIONS 7200

C - 4 - 59

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	1.0										1.7	4.3	5.0
020-040	1.7	1.1	.1									3.0	4.2	4.0
050-070	3.0	2.6	.2									5.8	4.5	4.0
(E) 080-100	2.9	.6										3.4	2.6	2.0
110-130	.9											.9	1.5	1.5
140-160	.7											.7	1.5	1.0
(S) 170-190	1.5	.6										2.1	3.4	3.0
200-220	3.6	6.2	.5									10.3	5.5	5.0
230-250	14.3	14.8	4.6									33.6	5.6	5.0
(W) 260-280	9.6	5.9	1.6									17.1	4.5	4.0
290-310	2.5	1.0	.2									3.8	3.8	4.0
320-340	1.7	.6										2.3	3.2	2.5
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	15.4	//////	//////
TOTALS	43.1	34.4	7.2									100.0	4.1	4.0

TOTAL NUMBER OF OBSERVATIONS 877

C - 4 - 60

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.1	.2										3.3	2.7	3.0
020-040	2.6	1.4										4.0	3.9	3.5
050-070	6.2	3.8	.1									10.1	4.1	4.0
(E) 080-100	4.8	.7	.1									5.6	3.1	3.0
110-130	.8	.2										1.1	2.2	1.0
140-160	.7	.1										.8	2.6	2.0
(S) 170-190	1.0	.4	.1									1.4	3.1	1.5
200-220	1.8	1.3	.5									3.6	4.9	4.5
230-250	9.6	4.8	.5									14.9	4.0	4.0
(W) 260-280	7.3	1.7										8.9	3.0	2.0
290-310	6.4	.6										7.0	2.3	2.0
320-340	3.1	.1										3.2	1.9	2.0
VARIABLE		.1										.1	7.0	7.0
CALM	////	////	////	////	////	////	////	////	////	////	////	35.8	////	////
TOTALS	47.4	15.4	1.3									100.0	2.2	3.0

TOTAL NUMBER OF OBSERVATIONS 840

C - 4 - 61

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.2	.2										3.5	2.6	2.0
020-040	1.8	1.0										2.7	3.9	3.0
050-070	6.0	4.9	.2									11.1	4.4	4.0
(E) 080-100	3.7	1.2										4.9	3.5	3.0
110-130	.7											.7	2.0	2.0
140-160	.2	.1										.4	3.7	3.0
(S) 170-190	.5	.4										.8	3.7	4.0
200-220	2.4	1.8	.2									4.4	4.2	4.0
230-250	9.6	6.4	.2									16.3	4.1	4.0
(W) 260-280	7.3	2.4	.1									9.8	3.5	3.0
290-310	4.0	.6										4.6	2.5	2.0
320-340	2.6											2.6	1.9	2.0
VARIABLE		.1										.1	8.0	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	38.1	//////////	//////////
TOTALS	42.0	19.1	.7									100.0	2.3	3.0

TOTAL NUMBER OF OBSERVATIONS 840

C - 4 - 62

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	.6										2.0	3.4	3.0
020-040	1.9	1.6										3.5	3.9	4.0
050-070	5.2	6.1	.3									11.7	5.1	5.0
(E) 080-100	5.1	2.6	.5									8.2	4.1	4.0
110-130	.8	.1										.9	2.1	2.0
140-160	.3	.2										.6	4.2	4.0
(S) 170-190	1.2	.6										1.7	3.8	4.0
200-220	1.5	2.8	1.5									5.8	6.7	7.0
230-250	8.2	10.6	.5									19.2	5.0	5.0
(W) 260-280	7.1	4.2	.1									11.4	4.1	4.0
290-310	4.2	1.3										5.5	2.9	2.0
320-340	2.3	.1										2.4	2.2	2.0
VARIABLE		.2	.1									.3	9.0	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	26.7	//////////	//////////
TOTALS	39.2	31.0	3.0									100.0	3.3	4.0

TOTAL NUMBER OF OBSERVATIONS 858

C - 4 - 63

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.6	.7	.1									2.4	4.3	4.0
020-040	1.6	1.2	.2									3.0	4.8	4.0
050-070	2.3	5.2	.5									8.0	5.8	6.0
(E) 080-100	5.5	6.8	1.0									13.3	5.3	5.0
110-130	2.6	1.0										3.6	3.4	3.0
140-160	1.0	.1										1.2	2.6	2.0
(S) 170-190	1.7	.2	.5									2.4	3.9	2.0
200-220	2.2	3.5	3.4	.2								9.3	7.6	7.0
230-250	8.4	12.4	2.9									23.7	5.9	6.0
(W) 260-280	6.1	6.6	1.0									13.8	5.0	5.0
290-310	3.5	2.7	.1									6.3	4.5	4.0
320-340	2.8	1.3	.1									4.2	4.1	4.0
VARIABLE		1.9	.5									2.3	8.5	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	6.4	//////////	//////////
TOTALS	39.3	43.6	10.3	.2								100.0	5.1	5.0

TOTAL NUMBER OF OBSERVATIONS 858

C - 4 - 64

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	1.3	.1									3.6	4.3	4.0
020-040	1.3	2.0	.3									3.6	5.6	6.0
050-070	2.0	3.5	.2									5.7	5.6	6.0
(E) 080-100	2.7	4.0	1.5	.1								8.3	6.3	6.0
110-130	2.8	1.2	.1	.1								4.2	4.3	4.0
140-160	1.9	1.9										3.7	4.4	4.5
(S) 170-190	1.9	1.2	.2									3.3	4.7	4.0
200-220	2.3	4.5	2.4	.7								10.0	7.8	8.0
230-250	5.6	12.0	5.1	.3								23.1	7.1	7.0
(W) 260-280	4.0	8.6	.9									13.5	5.8	6.0
290-310	3.0	5.0	.2									8.3	5.2	5.0
320-340	2.9	3.5	.1									6.5	4.9	5.0
VARIABLE	.2	2.7	1.4									4.3	8.1	8.0
CALM	////	////	////	////	////	////	////	////	////	////	////	1.9	////	////
TOTALS	32.8	51.4	12.5	1.2								100.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS 858

C - 4 - 65

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	2.6	.1									3.6	5.5	6.0
020-040	2.3	1.6	.3									4.3	4.8	4.0
050-070	3.3	3.3	.3									6.9	5.1	5.0
(E) 080-100	3.0	4.1	1.3									8.4	5.9	6.0
110-130	1.9	1.4	.3									3.6	4.6	4.0
140-160	2.4	.9										3.4	3.8	4.0
(S) 170-190	.9	2.2	.3									3.5	5.7	6.0
200-220	2.8	4.2	2.9	.7	.1							10.7	7.8	8.0
230-250	4.3	12.2	3.4	.3								20.3	6.9	7.0
(W) 260-280	3.4	6.9	.9									11.2	5.6	5.0
290-310	3.5	6.6	.5									10.6	5.5	6.0
320-340	2.9	4.4	.6									7.9	5.4	5.5
VARIABLE	.1	1.2	.6									1.9	8.6	8.0
CALM	////	////	////	////	////	////	////	////	////	////	////	3.7	////	////
TOTALS	31.7	51.6	11.5	1.0	.1							100.0	5.8	6.0

TOTAL NUMBER OF OBSERVATIONS 858

C - 4 - 66

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.3	2.5	.4									6.1	4.8	4.0
020-040	4.1	2.7										6.8	4.3	4.0
050-070	3.3	2.8	.6									6.7	5.0	5.0
(E) 080-100	6.3	2.5	.4									9.1	4.3	4.0
110-130	2.0	.6										2.6	3.5	3.0
140-160	.8	.5										1.3	3.7	3.0
(S) 170-190	1.1	.9										2.0	4.4	4.0
200-220	2.6	2.5	1.2	.2	.1							6.5	6.6	6.0
230-250	7.6	11.0	1.9	.1								20.6	5.7	5.5
(W) 260-280	4.8	5.0	.5	.1								10.4	5.0	5.0
290-310	5.7	4.4	.4									10.5	4.4	4.0
320-340	4.0	3.3	.2									7.5	4.5	4.0
VARIABLE		.4	.1									.5	8.5	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	9.6	//////////	//////////
TOTALS	45.6	39.1	5.7	.4	.1							100.0	4.5	4.0

TOTAL NUMBER OF OBSERVATIONS 856

C - 4 - 67

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	5.1	1.2										6.2	3.0	2.0
020-040	2.8	2.6	.1									5.5	4.4	4.0
050-070	9.1	2.2										11.3	3.4	3.0
(E) 080-100	4.5	.7										5.2	3.0	2.5
110-130	1.3	.1										1.4	2.7	2.0
140-160	.7											.7	1.5	1.0
(S) 170-190	1.3	.4										1.6	3.4	2.5
200-220	1.8	.7	.5	.1								3.1	5.3	4.0
230-250	8.8	6.2	.2									15.3	4.1	4.0
(W) 260-280	7.7	2.4	.1									10.1	3.3	2.0
290-310	6.5	1.3										7.8	2.9	2.0
320-340	3.4	.1										3.5	2.2	2.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	28.2	////	////
TOTALS	53.0	17.9	.9	.1								100.0	2.5	3.0

TOTAL NUMBER OF OBSERVATIONS 849

C - 4 - 68

TING LOCATION "A"
TAC, ASHEVILLE NC

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

ON NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: ALL

RECTION	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL	MEAN	MEDIAN
EGREES)												%	WIND	WIND
50-010	2.6	1.2	.1									3.8	3.8	3.0
20-040	2.3	1.8	.1									4.2	4.4	4.0
50-070	4.7	4.0	.3									8.9	4.7	4.0
80-100	4.4	2.8	.6	.0								7.9	4.7	4.0
10-130	1.6	.6	.1	.0								2.3	3.6	3.0
40-160	1.0	.5										1.5	3.7	3.0
70-190	1.2	.8	.1									2.1	4.4	4.0
00-220	2.2	2.7	1.6	.2	.0							6.7	6.9	7.0
30-250	7.8	9.5	1.8	.1								19.2	5.5	5.0
60-280	5.9	4.7	.5	.0								11.1	4.5	4.0
90-310	4.6	2.8	.1									7.6	4.0	4.0
20-340	3.0	1.6	.1									4.8	4.0	3.0
RIABLE	.0	.8	.3									1.2	8.3	8.0
ALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	18.7	//////////	//////////
TALS	41.3	33.8	5.7	.3								100.0	4.0	4.0

TOTAL NUMBER OF OBSERVATIONS 6817

C - 4 - 69

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.9	.3										2.2	3.4	3.0
020-040	1.2	.3										1.6	3.0	3.0
050-070	.6	1.4	.2									2.2	5.7	6.0
(E) 080-100	1.4	.6										2.0	3.7	3.0
110-130	.9	.3										1.2	.	4.0
140-160	.5	.5										.9	3.8	4.5
(S) 170-190	1.2	.6										1.9	3.8	3.5
200-220	2.8	5.1	2.6	.5								11.1	7.0	7.0
230-250	11.1	27.6	6.1	.2								44.9	6.4	6.0
(W) 260-280	4.8	7.5	.6									12.9	5.4	6.0
290-310	2.6	.9										3.6	3.3	2.0
320-340	2.5	.3										2.8	2.4	2.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	12.8	//////	//////
TOTALS	31.5	45.4	9.5	.7								100.0	5.0	6.0

TOTAL NUMBER OF OBSERVATIONS 642

C - 4 - 70

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	.4										1.6	3.2	3.0
020-040	1.3	.6										1.9	3.7	3.0
050-070	6.0	1.6										7.5	3.1	3.0
(E) 080-100	6.2	.4										6.6	2.3	2.0
110-130	.7											.7	1.5	1.0
140-160	.5											.5	2.3	2.0
(S) 170-190	.4											.4	2.0	1.0
200-220	1.6	1.3										2.9	4.9	4.0
230-250	8.8	5.4	.7	.5								15.4	4.9	4.0
(W) 260-280	7.6	.8										8.5	2.5	2.0
290-310	6.0	.7	.2									6.9	2.7	2.0
320-340	2.3											2.3	2.2	2.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	44.9	//////	//////
TOTALS	42.6	11.2	.9	.5								100.0	1.9	3.0

TOTAL NUMBER OF OBSERVATIONS 837

C - 4 - 71

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	.2										1.2	2.9	2.0
020-040	.6	.4										1.0	3.4	2.0
050-070	6.9	1.0										7.9	2.7	2.0
(E) 080-100	5.7	.7										6.5	2.5	2.0
110-130	.7	.1										.8	1.9	1.0
140-160														
(S) 170-190	.1	.2										.4	5.3	6.0
200-220	.5	1.3	.1	.1								2.0	5.7	5.0
230-250	7.4	6.9	.6	.2								15.2	5.0	5.0
(W) 260-280	11.8	1.0	.1									12.9	2.5	2.0
290-310	5.6	1.1										6.7	2.6	2.0
320-340	1.6											1.6	1.8	2.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	44.0	////	////
TOTALS	41.9	12.9	.8	.3								100.0	1.9	3.0

TOTAL NUMBER OF OBSERVATIONS 837

C - 4 - 72

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	.5										1.7	3.4	3.0
020-040	1.6	.2										1.8	2.9	3.0
050-070	6.0	2.9										8.8	3.6	3.0
(E) 080-100	7.4	1.2										8.6	2.9	3.0
110-130	1.0											1.0	1.6	1.0
140-160	.6											.6	1.8	1.0
(S) 170-190	.4	.5										.8	4.3	5.0
200-220	1.7	1.8	.5									3.9	5.5	6.0
230-250	8.0	7.8	1.7	.4								17.8	5.5	5.0
(W) 260-280	11.5	3.3	.4									15.2	3.4	3.0
290-310	4.7	1.2										5.9	2.9	2.0
320-340	2.0	.4										2.4	2.7	2.0
VARIABLE		.1										.1	7.0	7.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	31.4	//////////	//////////
TOTALS	46.1	19.9	2.6	.4								100.0	2.7	3.0

TOTAL NUMBER OF OBSERVATIONS 837

C - 4 - 73

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	1.1										1.6	5.1	5.0
020-040	1.0	1.4	.1									2.5	5.3	5.0
050-070	2.0	3.5	.1									5.6	5.3	5.0
(E) 080-100	9.3	5.3										14.6	3.9	3.5
110-130	4.4	.6	.1									5.1	2.7	2.0
140-160	1.7	.5										2.2	2.6	2.0
(S) 170-190	1.1	.4	.1									1.6	3.3	2.0
200-220	3.8	2.7	1.3	.1								8.0	5.6	6.0
230-250	9.1	12.9	4.9	.4								27.2	6.3	6.0
(W) 260-280	7.2	6.5	.8									14.5	4.8	5.0
290-310	2.7	3.1	.2									6.1	4.7	5.0
320-340	2.0	1.3	.1									3.5	4.5	4.0
VARIABLE		.7										.7	8.2	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	6.9	//////////	//////////
TOTALS	44.8	40.0	7.7	.5								100.0	4.7	5.0

TOTAL NUMBER OF OBSERVATIONS 837

C - 4 - 74

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	1.4	.1									2.0	5.8	6.0
020-040	1.8	1.0	.1									2.9	4.6	4.0
050-070	1.6	2.5	.6									4.7	5.8	6.0
(E) 080-100	1.7	2.7	.2									4.7	5.1	5.0
110-130	2.9	2.0	.1									5.0	4.6	4.0
140-160	2.9	.2										3.1	2.6	2.0
(S) 170-190	1.9	1.2	.5									3.6	5.3	4.0
200-220	4.4	3.2	3.5	.5								11.6	6.9	6.0
230-250	5.4	15.7	8.0	.6								29.6	7.5	7.0
(W) 260-280	5.5	6.5	1.9									13.9	5.6	5.0
290-310	3.7	4.7	1.0									9.3	5.3	5.0
320-340	1.8	3.0										4.8	5.2	5.0
VARIABLE		1.8	.8									2.6	8.7	8.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	2.3	//////	//////
TOTALS	34.1	45.9	16.8	1.1								100.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS 837

C - 4 - 75

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.2	1.4	.4									3.9	4.7	4.0
020-040	1.6	1.1	.7									3.3	5.4	5.0
050-070	1.9	2.3	.5									4.7	5.6	5.0
(E) 080-100	2.9	1.9	.1									4.9	4.4	4.0
110-130	2.6	.8	.2									3.7	3.9	3.0
140-160	1.9	1.0										2.9	3.5	3.0
(S) 170-190	2.5	1.2	.2									3.9	4.1	3.0
200-220	3.9	5.0	3.0	.1								12.1	6.5	6.0
230-250	6.1	15.1	4.7	.6	.1							26.5	7.0	7.0
(W) 260-280	5.7	6.3	1.3									13.4	5.5	5.0
290-310	2.9	5.9	.6									9.3	5.7	6.0
320-340	1.9	4.5	.8									7.3	5.9	6.0
VARIABLE		1.2	.8									2.0	8.8	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	2.0	//////////	
TOTALS	36.1	47.7	13.3	.7	.1							100.0	5.8	6.0

TOTAL NUMBER OF OBSERVATIONS 837

C - 4 - 76

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	3.1	1.0	.2									4.3	3.6	3.0
020-040	2.3	1.6	.5									4.3	5.1	4.0
050-070	4.3	2.2										6.5	3.6	3.0
(E) 080-100	3.9	1.2										5.1	3.7	4.0
110-130	2.0	.2										2.3	2.7	3.0
140-160	1.2	.2										1.4	2.8	2.0
(S) 170-190	1.1	.1										1.2	2.2	2.0
200-220	3.1	2.9	.7									6.7	4.9	5.0
230-250	8.6	9.2	2.3									20.1	5.4	5.0
(W) 260-280	7.0	4.4	.1									11.6	3.9	4.0
290-310	7.4	3.8	.6									11.8	4.0	3.0
320-340	6.0	3.2	.4									9.6	3.9	4.0
VARIABLE		.6										.6	7.8	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	14.6	//////////	
TOTALS	50.0	30.6	4.8									100.0	3.7	4.0

TOTAL NUMBER OF OBSERVATIONS 837

C - 4 - 77

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.6	.7										3.3	3.0	2.0
020-040	3.7	1.7	.5									5.9	4.4	4.0
050-070	6.9	1.4										8.4	3.3	3.0
(E) 080-100	4.5	.2										4.8	2.4	2.0
110-130	.8	.1										1.0	2.1	2.0
140-160	.4											.4	3.0	3.0
(S) 170-190	.8											.8	1.7	1.0
200-220	1.4	2.3	.7	.1								4.5	6.5	6.0
230-250	9.0	4.5	.6									14.1	4.0	4.0
(W) 260-280	9.4	.8										10.3	2.6	2.0
290-310	6.3	1.1										7.4	2.7	2.0
320-340	3.5	.2										3.7	2.0	2.0
VARIABLE		.1										.1	7.0	7.0
CALM	////	////	////	////	////	////	////	////	////	////	////	35.4	////	////
TOTALS	49.3	13.1	1.8	.1								100.0	2.2	3.0

TOTAL NUMBER OF OBSERVATIONS 837

C - 4 - 78

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	.8	.1									2.4	4.0	3.0
020-040	1.7	1.0	.2									2.9	4.6	4.0
050-070	4.5	2.2	.1									6.8	3.9	3.0
(E) 080-100	5.2	1.7	.0									7.0	3.4	3.0
110-130	1.9	.5	.1									2.4	3.3	3.0
140-160	1.1	.2										1.4	2.8	2.0
(S) 170-190	1.0	.4	.1									1.6	4.0	3.0
200-220	2.6	2.6	1.2	.1								6.5	6.1	6.0
230-250	7.8	9.7	2.9	.3	.0							20.7	6.0	6.0
(W) 260-280	8.2	3.7	.6									12.5	4.0	3.0
290-310	4.9	2.7	.3									7.9	4.0	3.0
320-340	2.6	1.6	.2									4.4	4.1	4.0
VARIABLE		.6	.2									.8	8.5	8.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	22.7	//////	//////
TOTALS	43.0	27.7	6.0	.4								100.0	3.6	4.0

TOTAL NUMBER OF OBSERVATIONS 6696

C - 4 - 79

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.3	.6										2.8	2.9	2.0
020-040	1.6	.4										2.0	3.0	2.0
050-070	2.4	1.4										3.8	3.5	3.0
(E) 080-100	4.2	.1										4.4	2.1	2.0
110-130	1.4	.1	.1									1.7	3.0	2.0
140-160	.6											.6	1.0	1.0
(S) 170-190	1.4	.1										1.6	2.0	1.0
200-220	2.5	2.7	1.3									6.5	5.8	5.0
230-250	10.6	14.9	4.8	.7								31.0	6.3	6.0
(W) 260-280	10.2	4.0	.6									14.7	3.7	3.0
290-310	3.8	1.4	.3									5.5	4.1	3.0
320-340	2.1	.4										2.5	2.8	2.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	22.9	//////////	//////////
TOTALS	43.1	26.1	7.1	.7								100.0	3.6	4.0

TOTAL NUMBER OF OBSERVATIONS 707

C - 4 - 80

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 00-02

DIRECTION (DEGREE	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	.5										2.2	3.6	3.0
020-040	2.5	.2										2.7	2.6	2.0
050-070	8.1	3.2	.1									11.5	3.3	3.0
(E) 080-100	4.8											4.8	2.2	2.0
110-130	1.1											1.1	1.8	2.0
140-160	.4											.4	3.0	3.0
(S) 170-190	.5	.7	.1									1.4	5.5	6.0
200-220	1.4	1.9	1.1									4.3	6.4	6.0
230-250	6.5	7.2	2.5	.1								16.3	5.8	5.0
(W) 260-280	6.3	1.5	.4									8.1	3.5	3.0
290-310	3.8	.1										4.0	1.9	2.0
320-340	1.7	.2										2.0	2.8	2.0
VARIABLE														
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	41.2	//////	//////
TOTALS	38.8	15.5	4.2	.1								100.0	2.4	3.0

TOTAL NUMBER OF OBSERVATIONS 810

C - 4 - 81

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.0	.5										2.5	3.3	2.0
020-040	2.0	.7										2.7	3.4	3.0
050-070	7.5	3.1	.2									10.8	3.6	3.0
(E) 080-100	7.0	.5										7.5	2.6	2.0
110-130	.1											.1	3.0	3.0
140-160		.1										.1	5.0	5.0
(S) 170-190	1.0	.1										1.1	2.2	2.0
200-220	1.7	1.7	1.6	.1								5.2	7.1	7.0
230-250	6.6	9.6	2.7									18.9	6.1	6.0
(W) 260-280	3.8	1.8	.1									5.8	3.8	3.0
290-310	2.7	.1	.4									3.2	3.2	2.0
320-340	1.5	.5										2.0	2.9	2.5
VARIABLE		.1		.2								.4	13.7	15.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	39.9	//////	//////
TOTALS	35.9	18.8	5.0	.3								100.0	2.7	4.0

TOTAL NUMBER OF OBSERVATIONS 815

C - 4 - 82

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	.9										1.8	4.3	4.0
020-040	1.2	1.0										2.2	4.4	4.0
050-070	6.8	4.0	.4									11.2	4.1	4.0
(E) 080-100	6.8	1.8										8.6	3.0	2.0
110-130	.6											.6	1.6	1.0
140-160	.2											.2	1.0	1.0
(S) 170-190	.2	.1										.4	3.7	4.0
200-220	1.7	3.9	1.3	.2	.1							7.3	7.4	7.0
230-250	5.6	9.8	3.2	.1								18.7	6.4	6.0
(W) 260-280	5.7	2.1	.6									8.4	4.1	4.0
290-310	3.4	.2										3.6	2.3	2.0
320-340	2.1	.2										2.3	2.5	2.0
VARIABLE				.1								.1	15.0	15.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	34.5	//////	//////
TOTALS	35.3	24.0	5.5	.4	.1							100.0	3.2	4.0

TOTAL NUMBER OF OBSERVATIONS 823

C - 4 - 83

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	1.3										2.2	5.7	6.0
020-040	1.0	1.3	.1									2.4	5.9	6.0
050-070	3.4	5.6	.6									9.6	5.5	6.0
(E) 080-100	10.5	5.7	.8									17.1	4.2	4.0
110-130	2.2	.5										2.7	3.0	3.0
140-160	1.0	.2	.1									1.3	4.1	3.0
(S) 170-190	1.8	1.0	.1									2.9	3.9	4.0
200-220	3.2	4.0	2.7	.5								10.3	7.2	7.0
230-250	5.8	11.6	7.2	.7								25.3	7.3	7.0
(W) 260-280	6.2	3.4	.7									10.3	4.6	3.0
290-310	2.3	.6										2.9	3.0	2.0
320-340	1.5	.5										1.9	3.6	4.0
VARIABLE		.6	.1		.1							.8	9.4	8.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	10.2	//////	//////
TOTALS	39.7	36.3	12.4	1.2	.1							100.0	5.1	5.0

TOTAL NUMBER OF OBSERVATIONS 825

C - 4 - 84

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	2.5	.1									3.5	5.8	6.0
020-040	.2	2.5										2.8	6.6	7.0
050-070	2.4	3.4	.8									6.7	5.6	5.0
(E) 080-100	4.2	5.1	.8									10.2	5.3	5.0
110-130	2.5	1.8	.1									4.5	4.5	4.0
140-160	2.3	.7	.1									3.2	3.9	3.0
(S) 170-190	3.5	2.3	.2									6.1	4.4	4.0
200-220	2.8	4.4	3.4	.6								11.2	7.7	8.0
230-250	8.0	12.2	9.6	1.1	.1							31.0	7.6	8.0
(W) 260-280	4.0	4.5	1.7									10.2	5.7	5.0
290-310	2.4	1.6	.1									4.1	4.2	4.0
320-340	1.1	.6										1.7	4.1	4.0
VARIABLE		1.2	1.0	.1								2.3	9.5	9.0
CALM	////	////	////	////	////	////	////	////	////	////	////	2.7	////	////
TOTALS	34.2	42.8	17.9	1.8	.1							100.0	6.1	6.0

TOTAL NUMBER OF OBSERVATIONS 825

C - 4 - 85

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	2.6	.4									3.7	6.3	6.0
020-040	1.3	2.1										3.4	5.0	5.0
050-070	2.7	4.4	.4									7.4	5.3	5.0
(E) 080-100	5.1	2.9	.9									8.9	4.4	3.0
110-130	4.5	1.1		.1								5.7	3.2	3.0
140-160	3.3	1.0										4.3	3.3	3.0
(S) 170-190	2.3	2.2	.4	.2								5.1	5.3	5.0
200-220	2.8	4.6	2.6	.6	.1							10.7	7.5	6.0
230-250	7.1	12.8	8.4	.5								28.7	7.1	7.0
(W) 260-280	5.1	4.5	1.0									10.6	5.1	5.0
290-310	2.6	1.9	.2									4.8	4.9	4.0
320-340	.7	.7										1.5	4.9	4.5
VARIABLE		.9	.1	.1								1.1	9.0	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	4.1	//////////	//////////
TOTALS	38.2	41.7	14.4	1.5	.1							100.0	5.6	5.0

TOTAL NUMBER OF OBSERVATIONS 821

C - 4 - 86

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.6	1.5										4.1	3.9	3.0
020-040	4.6	2.5										7.0	4.0	4.0
050-070	5.9	2.6										8.5	3.6	4.0
(E) 080-100	6.5	1.7										8.3	3.2	3.0
110-130	1.9											1.9	1.9	2.0
140-160	.5											.5	2.5	2.5
(S) 170-190	1.1	.6	.4									2.1	5.2	4.0
200-220	3.5	2.7	2.1									8.3	6.1	6.0
230-250	8.3	10.6	3.2	.1								22.2	5.9	6.0
(W) 260-280	4.1	2.6	.6	.1								7.4	4.4	4.0
290-310	4.2	.9										5.1	2.8	2.0
320-340	3.0	.2										3.2	2.3	2.0
VARIABLE		.1										.1	6.0	6.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	21.4	//////////	//////////
TOTALS	46.2	26.0	6.3	.2								100.0	3.5	4.0

TOTAL NUMBER OF OBSERVATIONS 810

C - 4 - 87

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	2.7	.9										3.6	3.1	3.0
020-040	3.1	1.2										4.3	3.4	3.0
050-070	9.0	2.7	.1									11.9	3.4	3.0
(E) 080-100	6.7	1.0	.1									7.8	2.9	2.0
110-130	1.2	.2										1.5	2.1	2.0
140-160	.4											.4	2.0	2.0
(S) 170-190	.6	.5										1.1	4.3	4.0
200-220	1.0	2.0	1.7	.1								4.8	8.3	8.0
230-250	7.0	7.9	3.1									18.0	5.9	5.0
(W) 260-280	6.5	1.6	.2									8.4	3.2	2.5
290-310	2.1	.2	.1									2.5	2.4	2.0
320-340	1.4											1.4	1.4	1.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	34.4	////	////
TOTALS	41.7	18.2	5.3	.1								100.0	2.8	3.0

TOTAL NUMBER OF OBSERVATIONS 810

C - 4 - 88

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: ALL

DIRECTION	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(DEGREES)														
(N) 350-010	1.5	1.3	.1									2.9	4.6	4.0
020-040	2.0	1.5	.0									3.4	4.3	4.0
050-070	5.7	3.6	.3									9.7	4.2	4.0
(E) 080-100	6.5	2.4	.3									9.2	3.7	3.0
110-130	1.8	.5	.0	.0								2.3	3.1	3.0
140-160	1.0	.3	.0									1.3	3.4	3.0
(S) 170-190	1.4	.9	.2	.0								2.5	4.6	4.0
200-220	2.2	3.2	2.1	.3	.0							7.8	7.2	7.0
230-250	6.9	10.2	5.0	.3	.0							22.4	6.7	6.0
(W) 260-280	5.2	2.8	.7	.0								8.7	4.4	4.0
290-310	2.9	.7	.1									3.8	3.2	2.0
320-340	1.6	.4										2.0	3.0	2.0
VARIABLE		.4	.2	.1	.0							.6	9.7	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	23.5	//////////	//////////
TOTALS	38.7	28.2	9.0	.7								100.0	3.9	4.0

TOTAL NUMBER OF OBSERVATIONS 6539

C - 4 - 89

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.7										1.4	4.0	3.0
020-040	1.8	1.1										2.9	3.7	3.0
050-070	4.8	4.9	.5									10.2	4.8	5.0
(E) 080-100	4.2	1.0										5.1	3.1	3.0
110-130	.6											.6	2.2	2.5
140-160	.4	.1										.5	2.8	3.0
(S) 170-190	1.0	1.0	.1									2.0	4.7	5.0
200-220	2.1	5.2	2.5	.2	.1							10.1	7.5	8.0
230-250	6.7	17.7	8.1	.1								32.5	7.3	8.0
(W) 260-280	4.8	2.8	1.2									8.8	4.9	4.0
290-310	2.2	.2										2.4	2.3	2.0
320-340	1.4	.4										1.8	2.7	2.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	21.5	////	////
TOTALS	30.8	35.1	12.4	.3	.1							100.0	4.6	6.0

TOTAL NUMBER OF OBSERVATIONS 1036

C - 4 - 90

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.3										1.2	3.1	3.0
020-040	2.2	.4										2.7	2.6	2.0
050-070	8.6	4.4	.9									13.9	4.2	3.0
(E) 080-100	6.9	2.0	.3									9.2	3.8	3.0
110-130	.8											.8	2.1	2.0
140-160	.4			.1								.6	4.8	2.0
(S) 170-190	.3	.2	.6	.1	.1							1.3	10.1	11.0
200-220	1.5	2.5	1.9	.4	.1							6.5	8.0	7.0
230-250	7.0	10.3	6.3	.9	.3							24.8	7.3	7.0
(W) 260-280	5.4	.9	.6	.1								7.0	4.0	3.0
290-310	2.1	1.0	.1	.1								3.3	3.8	2.5
320-340	1.5	.3										1.9	2.8	2.0
VARIABLE		.1	.3									.4	11.0	11.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	26.5	//////////	//////////
TOTALS	37.6	22.4	11.0	1.7	.5							100.0	4.1	4.0

TOTAL NUMBER OF OBSERVATIONS 905

C - 4 - 91

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.3										1.2	3.6	3.0
020-040	1.5	1.2										2.7	3.8	4.0
050-070	9.1	2.6	.7									12.4	3.7	3.0
(E) 080-100	5.1	2.7	1.0									8.8	4.8	4.0
110-130	1.0	.1										1.1	2.7	3.0
140-160	.1											.1	1.0	1.0
(S) 170-190	.8	.7	.4	.2								2.1	7.0	5.0
200-220	1.4	2.6	1.4	.7	.7							6.8	9.4	7.5
230-250	7.7	10.1	6.2	1.5	.1							25.6	7.3	7.0
(W) 260-280	6.9	1.1	.5	.2								8.8	4.0	3.0
290-310	4.3	.3	.1									4.7	2.7	2.0
320-340	1.4	.3										1.8	3.1	3.0
VARIABLE		.1										.1	7.0	7.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	23.7	//////////	//////////
TOTALS	40.2	22.1	10.3	2.6	.8							100.0	4.2	4.0

TOTAL NUMBER OF OBSERVATIONS 910

C - 4 - 92

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	.2	.1									.9	3.9	2.5
020-040	1.8	.4										2.3	2.7	2.0
050-070	7.1	4.2	.8									12.1	4.4	4.0
(E) 080-100	4.9	3.9	1.3									10.0	5.0	5.0
110-130	1.1											1.1	1.9	2.0
140-160	.6	.1										.8	3.6	4.0
(S) 170-190	1.2	.8	.2	.1								2.3	5.3	4.0
200-220	1.8	4.5	2.6	1.1	.2							10.3	8.6	8.0
230-250	7.9	9.6	6.0	1.1	.1							24.7	7.2	7.0
(W) 260-280	6.6	.2	.2	.3	.1							7.5	3.6	2.0
290-310	3.1	.4	.1	.1								3.8	3.2	3.0
320-340	2.1	.3										2.4	2.7	2.0
VARIABLE		.2	.3									.5	10.0	10.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	21.5	//////	//////
TOTALS	38.7	24.8	11.6	2.7	.4							100.0	4.5	5.0

TOTAL NUMBER OF OBSERVATIONS 926

C - 4 - 93

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.4	.6										1.1	4.3	5.0
020-040	.8	1.5										2.3	5.3	5.0
050-070	3.8	4.3	1.6									9.7	5.9	6.0
(E) 080-100	9.1	5.7	2.3									17.1	5.1	4.0
110-130	1.9	.3										2.3	3.1	3.0
140-160	.4	.1										.5	2.2	2.0
(S) 170-190	1.6	1.1	.3									3.0	5.1	4.0
200-220	2.4	3.8	4.7	1.3	.4							12.6	9.2	10.0
230-250	6.5	10.2	6.9	1.9	.3							25.8	7.9	8.0
(W) 260-280	5.5	3.2	.8	.6	.1							10.2	5.4	4.0
290-310	2.0	1.1										3.1	4.0	3.0
320-340	.9	.9	.1									1.8	4.9	6.0
VARIABLE		.5	.4									1.0	9.0	8.0
CALM	//											9.6	//////////	
TOTALS	35.3	33.3	17.1	3.8	.8							100.0	5.9	6.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 94

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.3	.8	.1									1.2	5.8	6.0
020-040	.4	1.3	.1									1.8	5.7	6.0
050-070	2.8	3.1	.5									6.5	5.5	5.0
(E) 080-100	5.8	7.0	2.3	.2								15.3	6.0	5.0
110-130	2.2	1.2										3.3	3.7	4.0
140-160	1.0	.1										1.1	2.3	2.0
(S) 170-190	1.5	1.3	.3									3.1	5.2	5.0
200-220	3.0	5.1	4.4	1.9	.4							14.8	8.9	9.0
230-250	6.2	10.6	8.7	2.7	.5							28.8	8.5	8.0
(W) 260-280	4.6	4.1	2.5	.5								11.7	6.5	6.0
290-310	1.7	1.1		.2								3.0	5.2	4.0
320-340	1.4	1.0	.2									2.6	4.8	4.0
VARIABLE		.5	1.2									1.7	10.4	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	5.1	//////////	//////////
TOTALS	30.9	37.2	20.3	5.5	.9							100.0	6.7	6.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 95

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	1.3										2.2	4.8	5.0
020-040	2.0	1.6	.2									3.9	4.6	4.0
050-070	2.2	3.5	.9									6.6	5.8	6.0
(E) 080-100	4.0	5.1	2.3									11.3	6.3	6.0
110-130	3.0	.8										3.8	3.4	3.0
140-160	1.4	.2										1.6	2.6	2.0
(S) 170-190	2.5	1.3	.9									4.6	5.4	4.0
200-220	3.5	6.5	2.5	1.0	.2							13.7	7.4	7.0
230-250	7.8	13.0	7.2	1.4	.4	.1						30.0	7.7	8.0
(W) 260-280	3.7	3.2	1.5	.4		.1						8.9	6.6	6.0
290-310	2.6	1.9	.2	.1								4.8	4.8	4.0
320-340	1.4	.4										1.8	3.2	2.0
VARIABLE		.1	.4	.1								.6	11.5	11.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	6.2	//////////	//////////
TOTALS	35.0	38.9	16.1	3.0	.6	.2						100.0	6.1	6.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 96

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	.8	.1									2.6	4.0	4.0
020-040	2.9	1.4										4.3	3.7	3.5
050-070	5.6	4.3	.8									10.6	4.7	4.0
(E) 080-100	4.8	4.5	1.0									10.3	5.2	5.0
110-130	1.2	.2										1.4	2.4	2.0
140-160	1.0	.2										1.2	2.7	2.0
(S) 170-190	3.0	.6	.4	.3	.1							4.5	5.2	3.0
200-220	[illegible]	2.4	1.6		.2							8.1	6.1	5.0
230-250	8.2	12.0	3.7	.8								24.6	6.6	6.0
(W) 260-280	2.7	2.6	.8	.2	.2							6.5	6.2	5.5
290-310	3.2	1.2	.3	.1								4.8	4.2	4.0
320-340	.6	.4										1.1	3.3	2.0
VARIABLE				.1								.1	16.0	16.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	19.9	//////	//////
TOTALS	38.8	30.6	8.7	1.5	.5							100.0	4.4	5.0

TOTAL NUMBER OF OBSERVATIONS 930

C - 4 - 97

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	.6	.1									1.3	4.9	5.0
020-040	1.0	1.2										2.2	4.1	5.0
050-070	7.0	4.5	.6									12.2	4.3	4.0
(E) 080-100	5.4	3.8	.5									9.7	4.6	4.0
110-130	1.1	.3										1.4	3.3	3.0
140-160	1.0	.1	.1									1.2	3.5	3.0
(S) 170-190	1.4	.4	.1	.3								2.3	5.6	3.0
200-220	2.4	2.9	1.8	.4	.2							7.8	7.5	7.0
230-250	8.0	9.8	6.9	.4	.1							25.2	6.9	7.0
(W) 260-280	4.1	1.8	.6	.3								6.9	5.0	4.0
290-310	2.2	.8										2.9	3.1	3.0
320-340	1.7	.2										1.9	2.4	2.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	25.1	////	////
TOTALS	35.8	26.4	10.7	1.4	.3							100.0	4.1	5.0

TOTAL NUMBER OF OBSERVATIONS 928

C - 4 - 98

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.6	.1									1.4	4.3	4.0
020-040	1.6	1.1	.0									2.8	4.0	4.0
050-070	5.8	3.9	.8									10.5	4.7	4.0
(E) 080-100	5.7	4.3	1.4	.0								11.5	5.2	4.5
110-130	1.5	.4										1.9	3.1	3.0
140-160	.7	.1	.0	.0								.9	3.0	2.0
(S) 170-190	1.5	.8	.4	.1	.0							2.9	5.7	4.0
200-220	2.5	3.8	2.6	.9	.3							10.1	8.2	8.0
230-250	7.4	10.7	6.5	1.3	.2	.0						26.2	7.5	7.0
(W) 260-280	4.9	2.2	.9	.4	.1	.0						8.4	5.3	4.0
290-310	2.7	1.0	.1	.1								3.8	3.9	3.0
320-340	1.4	.5	.0									1.9	3.5	3.0
VARIABLE		.2	.3	.0								.6	10.3	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.1	//////////	//////////
TOTALS	36.5	29.6	13.1	2.8	.6							100.0	5.0	5.0

TOTAL NUMBER OF OBSERVATIONS 7389

C - 4 - 99

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.1		.0									.1	4.0	1.0
020-040	1.0	.5										1.5	3.7	3.0
050-070	6.1	3.8	1.3									11.2	4.8	4.0
(E) 080-100	4.6	3.6	1.6									9.9	5.4	5.0
110-130	1.2	.1										1.4	2.7	2.0
140-160	.5	.1		.0								.7	4.0	4.0
(S) 170-190	1.3	1.1	.2	.1	.0							2.9	6.4	5.0
200-220	2.3	5.5	4.0	1.6	.5							13.9	9.1	8.0
230-250	8.8	13.8	8.8	1.6	.5	.0						33.7	7.7	7.0
(W) 260-280	4.3	1.8	.8	.2	.0							7.2	5.3	4.0
290-310	1.2	.4	.1									1.7	3.8	3.0
320-340	.8	.2										1.0	2.8	2.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	14.7	//////////	//////////
TOTALS	32.2	30.9	16.8	3.5	1.0							100.0	5.7	6.0

TOTAL NUMBER OF OBSERVATIONS 2008

C - 4 - 100

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.7	.2	.2									2.2	3.3	2.0
020-040	1.5	1.3	.6	.3								3.7	6.6	6.0
050-070	5.1	5.6	2.2	.7	.1							13.7	6.4	6.0
(E) 080-100	6.8	2.1	.7									9.5	4.1	3.0
110-130	.6											.6	2.2	2.0
140-160	.5											.5	2.5	2.5
(S) 170-190	1.3	.5										1.7	3.1	2.0
200-220	1.7	3.3	2.3	.7	.1							8.2	8.2	8.0
230-250	6.9	10.8	4.9	.9	.2							23.8	7.0	7.0
(W) 260-280	4.8	3.2	.7	.1								8.9	4.8	4.0
290-310	1.7	1.1	.2	.1								3.2	4.8	3.5
320-340	.8	.7	.1									1.6	4.6	4.0
VARIABLE		.1										.1	8.0	8.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	22.4	//////////	//////////
TOTALS	33.4	28.9	11.9	2.8	.4							100.0	4.6	5.0

TOTAL NUMBER OF OBSERVATIONS 870

C - 4 - 101

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.2	.1									1.1	4.5	3.5
020-040	1.4	1.3	.9									3.6	6.1	6.0
050-070	5.5	5.1	2.6	.2								13.4	6.0	6.0
(E) 080-100	5.3	2.2	1.3	.1								8.8	4.8	4.0
110-130	.3	.2										.6	3.6	4.0
140-160	.5	.1										.6	2.0	1.0
(S) 170-190	1.5	.9										2.4	3.8	4.0
200-220	1.1	3.6	2.0	.8		.1						7.6	8.5	8.0
230-250	6.1	9.9	5.4	1.0		.2						22.6	7.3	7.0
(W) 260-280	6.5	2.6	.6									9.8	4.1	3.0
290-310	2.8	1.5										4.2	3.9	3.0
320-340	1.6											1.6	2.1	2.0
VARIABLE				.1								.1	15.0	15.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	23.5	//////	//////
TOTALS	33.4	27.6	12.9	2.2		.3						100.0	4.5	5.0

TOTAL NUMBER OF OBSERVATIONS 871

C - 4 - 102

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.6	.1									1.5	5.0	3.0
020-040	1.0	.8	.5	.2								2.5	6.6	5.5
050-070	5.4	4.7	3.9	.1								14.0	6.8	6.0
(E) 080-100	6.0	1.8	.8	.1								8.8	4.4	4.0
110-130	1.1	.2										1.4	2.1	1.5
140-160	.5	.1										.6	3.0	2.0
(S) 170-190	1.3	.7			.1							2.1	4.8	3.5
200-220	1.9	3.9	2.4	.6								8.8	8.0	8.0
230-250	6.0	10.6	5.5	.6	.1							22.8	6.9	6.0
(W) 260-280	6.3	2.4	.7	.1								9.5	4.2	3.0
290-310	3.2	.8	.1									4.1	3.0	2.0
320-340	1.3	.2										1.5	2.5	2.0
VARIABLE			.2									.2	11.0	11.0
CALM												22.3		
TOTALS	34.8	26.8	14.2	1.7	.2							100.0	4.6	5.0

TOTAL NUMBER OF OBSERVATIONS 877

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.3	.8										1.1	4.7	5.0
020-040	.9	1.1	.8									2.8	7.0	8.0
050-070	3.2	4.0	3.7	.3								11.2	7.3	7.0
(E) 080-100	6.0	2.1	2.8	.2								11.2	5.9	4.0
110-130	2.3	.2										2.5	2.4	2.0
140-160	.8											.8	3.1	3.0
(S) 170-190	.8	1.0	.1									1.9	5.4	6.0
200-220	1.8	3.6	3.6	.5	.1							9.6	8.5	9.0
230-250	8.1	12.0	7.6	.5	.3							28.5	7.2	7.0
(W) 260-280	5.1	3.1	.6									8.7	4.6	4.0
290-310	2.3	1.0										3.3	3.3	3.0
320-340	.9	.5										1.4	3.1	2.0
VARIABLE		.1		.1								.2	12.0	12.0
CALM												16.8		
TOTALS	32.5	29.5	19.2	1.6	.4							100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 885

C - 4 - 104

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.3	.7	.5									1.5	7.4	8.0
020-040	.5	1.0	1.0	.1								2.6	8.3	8.0
050-070	1.5	5.1	2.7	.2								9.5	7.7	7.0
(E) 080-100	6.3	3.6	2.4	.7								13.0	5.9	5.0
110-130	3.2	.3										3.5	2.6	2.0
140-160	.9	.1										1.0	2.4	2.0
(S) 170-190	1.0	1.8	.3									3.2	5.8	6.0
200-220	2.5	2.8	4.2	.2								9.7	7.8	8.0
230-250	5.2	11.4	10.8	.8	.2	.1						28.6	8.2	8.0
(W) 260-280	5.6	4.0	1.7	.2								11.5	5.6	5.0
290-310	3.4	1.9	.1									5.4	3.8	3.0
320-340	.7	1.0	.2									1.9	5.6	5.0
VARIABLE		.6	.3	.1								1.0	10.0	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	7.6	//////////	//////////
TOTALS	31.1	34.3	24.2	2.3	.2	.1						100.0	6.3	6.0

TOTAL NUMBER OF OBSERVATIONS 885

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	1.0	.6									2.3	6.8	6.0
020-040	.8	1.2	.3	.1								2.5	6.5	6.0
050-070	2.1	4.3	2.1	.2								8.8	7.4	7.0
(E) 080-100	7.1	3.4	2.0	.2								12.8	5.4	4.0
110-130	2.7	.3										3.1	2.3	2.0
140-160	.8	.3	.1									1.2	4.1	3.0
(S) 170-190	2.4	.8	1.0									4.2	5.4	4.0
200-220	1.6	3.5	2.3	.3	.1							7.8	8.1	8.0
230-250	6.4	10.8	8.5	.6	.1							26.4	7.5	8.0
(W) 260-280	5.0	4.3	1.1		.1							10.5	5.1	5.0
290-310	3.5	2.0	.5									6.0	4.3	4.0
320-340	1.1	.5										1.6	3.8	3.5
VARIABLE		.2	.7									.9	10.3	10.0
CALM	////	////	////	////	////	////	////	////	////	////	////	12.0	////	////
TOTALS	34.2	32.6	19.2	1.4	.3							100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 885

C - 4 - 106

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.4	.6	.2									2.2	4.9	4.0
020-040	1.5	1.6	.7	.2								4.0	6.1	5.0
050-070	3.7	4.8	2.6	.5								11.6	6.9	6.0
(E) 080-100	5.5	3.8	1.5	.1								10.9	5.4	4.0
110-130	1.7	.3										2.1	3.0	3.0
140-160	1.5	.1										1.6	2.4	2.0
(S) 170-190	1.0	.5	.5	.1								2.1	5.8	4.5
200-220	1.1	4.0	2.4	.3								7.9	8.0	7.0
230-250	9.0	8.6	7.1	.5								25.1	6.6	6.0
(W) 260-280	4.2	3.1	1.0									8.4	4.8	4.0
290-310	1.8	1.7	.2									3.8	4.6	5.0
320-340	1.1	.1										1.3	2.5	2.0
VARIABLE		.3	.2	.1								.7	10.5	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	18.4	//////////	//////////
TOTALS	33.5	29.5	16.4	1.8								100.0	4.9	5.0

TOTAL NUMBER OF OBSERVATIONS 871

C - 4 - 107

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	.7	.1									1.8	4.2	3.5
020-040	1.4	1.4	.9	.1								3.8	6.6	6.0
050-070	4.4	5.7	2.1	.9								13.0	6.8	6.0
(E) 080-100	7.0	3.0	1.6	.1								11.8	4.9	4.0
110-130	.6											.6	1.6	1.0
140-160	.2	.1										.3	4.0	2.0
(S) 170-190	.7	.3	.2									1.3	5.4	4.0
200-220	1.8	4.8	2.1	.3								9.1	7.5	8.0
230-250	6.9	10.6	5.7	.8	.1							24.1	6.9	6.0
(W) 260-280	4.6	3.8	.6									9.0	4.4	4.0
290-310	1.5	1.5	.1									3.1	4.6	5.0
320-340	.7	.5	.3									1.5	5.5	6.0
VARIABLE		.1	.3									.5	11.5	12.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	20.1	//////////	//////////
TOTALS	30.8	32.5	14.0	2.2	.1							100.0	4.9	6.0

TOTAL NUMBER OF OBSERVATIONS 867

C - 4 - 108

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.6	.2									1.7	5.1	4.0
020-040	1.1	1.2	.7	.1								3.2	6.7	6.0
050-070	3.8	4.9	2.8	.4	.0							11.9	6.8	6.0
(E) 080-100	6.3	2.8	1.6	.2								10.9	5.2	4.0
110-130	1.6	.2										1.8	2.5	2.0
140-160	.7	.1	.0									.8	2.9	2.0
(S) 170-190	1.2	.8	.3	.0	.0							2.4	5.0	4.0
200-220	1.7	3.7	2.7	.5	.0	.0						8.6	8.1	8.0
230-250	6.8	10.6	6.9	.7	.1	.0						25.3	7.2	7.0
(W) 260-280	5.3	3.3	.9	.1	.0							9.5	4.7	4.0
290-310	2.5	1.5	.2	.0								4.2	4.0	3.0
320-340	1.0	.4	.1									1.5	3.8	3.0
VARIABLE		.2	.2	.1								.5	10.6	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	17.9	//////////	//////////
TOTALS	32.9	30.3	16.6	2.1	.1							100.0	5.1	6.0

TOTAL NUMBER OF OBSERVATIONS 7011

C - 4 - 109

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.8	.1	.1									1.1	3.2	2.0
020-040	1.1	1.0	.4									2.5	5.5	5.0
050-070	2.8	2.1	1.6	.3	.0							6.9	6.5	6.0
(E) 080-100	4.5	1.5	.4	.0								6.4	3.8	3.0
110-130	1.1											1.1	1.9	1.5
140-160	.9	.1										1.0	2.6	2.0
(S) 170-190	1.4	1.2	.1									2.7	4.7	4.0
200-220	2.7	5.6	4.7	.5	.0	.0						13.6	8.1	8.0
230-250	7.4	16.2	13.0	1.0	.1							37.6	7.8	8.0
(W) 260-280	4.8	3.3	.9		.0							9.0	4.8	4.0
290-310	1.8	1.0	.1	.0								3.0	4.1	3.0
320-340	.6	.1	.1									.9	3.4	2.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	14.4	////	////
TOTALS	29.9	32.2	21.4	1.8	.1							100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS 2197

C - 4 - 110

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 00-02

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	.3	.2									1.6	4.8	4.0
020-040	1.1	.3										1.5	3.8	3.0
050-070	5.0	3.3	.5									8.7	4.3	4.0
(E) 080-100	4.8	1.9	.9									7.6	4.7	4.0
110-130	1.1	.5										1.6	3.4	3.0
140-160	.7	.1										.8	2.6	2.0
(S) 170-190	.3	.8										1.1	4.9	5.0
200-220	2.4	2.0	2.5	.8								7.7	8.1	8.0
230-250	8.8	13.5	5.0	1.5	.2							29.0	6.9	6.0
(W) 260-280	6.3	4.2	3.0	.6								14.0	6.3	5.0
290-310	3.6	2.0	.3	.3	.1							6.5	5.1	3.0
320-340	1.1	.6										1.7	3.7	3.0
VARIABLE		.1	.6	.1								.8	11.7	11.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	17.4	//////	//////
TOTALS	36.2	29.6	13.0	3.3	.3							100.0	5.0	5.0

TOTAL NUMBER OF OBSERVATIONS 880

C - 4 - 111

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 03-05

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.2	.3	.2									1.8	4.6	4.0
020-040	1.2	.1										1.4	2.8	3.0
050-070	3.7	4.5	.6									8.8	5.3	5.5
(E) 080-100	4.6	1.7	.9	.1								7.3	5.0	4.0
110-130	1.1											1.1	2.2	2.5
140-160	.5											.5	2.0	2.0
(S) 170-190	.9	1.0	.1									2.0	4.9	5.5
200-220	1.8	2.1	2.1	.8	.3							7.2	8.8	8.0
230-250	8.8	12.6	6.2	1.0	.1							28.8	6.9	7.0
(W) 260-280	8.5	5.0	2.9	.6	.2							17.2	5.8	5.0
290-310	2.4	.8	.3	.2	.2							4.0	5.9	4.0
320-340	.6											.6	3.0	3.0
VARIABLE			.7	.1								.8	11.6	12.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	18.6	//////	//////
TOTALS	35.3	28.1	14.0	2.8	.8							100.0	5.0	5.0

TOTAL NUMBER OF OBSERVATIONS 886

C - 4 - 112

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 06-08

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.0	.4										1.5	3.4	3.0
020-040	.2	.1	.1									.4	4.3	3.0
050-070	3.5	3.8	.7									8.0	5.6	6.0
(E) 080-100	4.5	1.8	.7	.1								7.1	4.7	4.0
110-130	2.0											2.0	1.9	2.0
140-160	1.0	.1	.1									1.2	3.7	3.0
(S) 170-190	1.1	.6	.1									1.8	3.7	3.0
200-220	1.5	3.1	1.7	.3		.1						6.7	7.7	8.0
230-250	11.1	12.6	6.1	.9	.4							31.1	6.7	6.0
(W) 260-280	7.2	5.0	2.4	.6	.1	.2						15.5	6.3	5.0
290-310	3.9	1.6	.4	.2								6.2	4.2	3.0
320-340	1.8	.4										2.2	3.6	4.0
VARIABLE			.3									.3	10.3	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	16.0	//////////	//////////
TOTALS	38.8	29.5	12.6	2.1	.5	.3						100.0	4.9	5.0

TOTAL NUMBER OF OBSERVATIONS 892

C - 4 - 113

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 09-11

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.4	.2										.7	4.7	4.0
020-040	.7	.6										1.2	3.8	3.0
050-070	3.9	2.3	.4	.1								6.8	4.7	4.0
(E) 080-100	6.0	2.7	1.4									10.1	5.0	4.0
110-130	2.0	.2										2.2	2.3	2.0
140-160	.9		.1									1.0	2.9	2.0
(S) 170-190	1.0	.6	.1	.2								1.9	5.6	4.0
200-220	2.9	4.4	1.3	.3								9.0	6.4	6.0
230-250	8.9	12.4	8.0	1.2	.2							30.7	7.2	7.0
(W) 260-280	9.2	4.3	2.4	.4	.2	.1						16.7	5.8	4.0
290-310	3.3	1.2	.6	.1								5.2	5.2	4.0
320-340	1.2	.3										1.6	3.5	4.0
VARIABLE			.1									.1	10.0	10.0
CALM												13.0		
TOTALS	40.4	29.2	14.4	2.3	.4	.1						100.0	5.2	5.0

TOTAL NUMBER OF OBSERVATIONS 903

C - 4 - 114

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 12-14

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.1	1.3	.6	.1								3.1	6.5	6.0
020-040	.9	.4										1.3	3.3	3.0
050-070	2.8	2.7	.7									6.1	5.0	5.0
(E) 080-100	7.1	3.9	.8									11.7	4.5	4.0
110-130	1.9											1.9	2.6	3.0
140-160	.7											.7	1.8	1.5
(S) 170-190	1.2	.7										1.9	3.8	3.0
200-220	2.5	4.2	2.8	.4								10.0	7.4	7.0
230-250	8.1	14.9	8.1	1.7	.2							33.0	7.5	7.0
(W) 260-280	5.2	5.1	2.3	1.1	.3							14.0	7.3	7.0
290-310	2.9	1.7	.6									5.1	4.7	4.0
320-340	1.1	1.0										2.1	4.3	4.0
VARIABLE			.2									.2	10.0	10.0
CALM	////	////	////	////	////	////	////	////	////	////	////	9.0	////	////
TOTALS	35.5	35.9	16.1	3.3	.5							100.0	5.8	6.0

TOTAL NUMBER OF OBSERVATIONS 904

C - 4 - 115

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 15-17

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.6	.8										1.3	4.4	5.0
020-040	1.2	.3	.1									1.7	3.9	3.0
050-070	5.3	2.7	.2									8.2	4.3	4.0
(E) 080-100	5.2	3.2	.3									8.8	4.3	4.0
110-130	1.4	.8	.1									2.3	3.9	3.0
140-160	1.1	.1										1.2	2.7	2.0
(S) 170-190	.8	.9										1.7	5.0	5.0
200-220	2.2	4.0	3.2	.2								9.7	7.6	7.0
230-250	8.9	12.6	8.0	.8	.1							30.3	7.1	7.0
(W) 260-280	3.8	5.4	2.0	1.1	.3							12.7	7.5	6.5
290-310	2.9	1.7	.7	.2								5.4	5.5	4.0
320-340	2.3	1.1	.2									3.7	4.5	4.0
VARIABLE		.1	.1									.2	10.0	10.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	12.8	//////////	//////////
TOTALS	35.7	33.7	14.9	2.3	.4							100.0	5.4	6.0

TOTAL NUMBER OF OBSERVATIONS 900

C - 4 - 116

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 18-20

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	1.0										2.0	5.2	5.0
020-040	1.1	.8										2.0	4.3	4.0
050-070	4.4	3.3	.1									7.8	4.2	4.0
(E) 080-100	5.4	3.1	.3									8.9	4.1	3.0
110-130	1.8	.8										2.6	3.5	2.0
140-160	.7											.7	2.7	3.0
(S) 170-190	.6	.7	.3									1.6	6.2	7.5
200-220	1.1	2.5	3.1	.1								6.9	8.2	8.5
230-250	9.8	15.6	4.9	1.6	.1							32.1	6.9	6.0
(W) 260-280	4.6	5.1	.9	.9	.2							11.7	6.7	6.0
290-310	3.7	1.3	1.0	.2	.2							6.4	5.9	4.0
320-340	1.0	.2		.1								1.4	4.4	3.0
VARIABLE		.1			.2							.3	16.0	20.0
CALM	////	////	////	////	////	////	////	////	////	////	////	15.6	////	////
TOTALS	35.1	34.5	10.6	2.9	.7							100.0	5.1	5.0

TOTAL NUMBER OF OBSERVATIONS 870

C - 4 - 117

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 21-23

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.7	.1	.3									1.1	5.0	3.5
020-040	1.0	.5	.1									1.6	4.3	4.0
050-070	4.4	3.0										7.4	3.8	3.5
(E) 080-100	5.3	2.8	.3									8.4	4.3	3.0
110-130	2.2	.3										2.5	2.6	2.0
140-160	.5	.1										.6	3.6	3.0
(S) 170-190	.2	.3	.1									.7	5.7	6.5
200-220	2.0	3.4	2.9	.2								8.5	7.9	8.0
230-250	9.9	13.2	5.4	1.4	.3							30.2	6.9	7.0
(W) 260-280	6.2	5.4	2.2	.6	.1							14.5	6.0	5.0
290-310	3.3	1.3	1.0	.1	.6							6.3	6.9	4.0
320-340	1.3	.8										2.1	3.8	3.0
VARIABLE		.1	.1									.2	9.0	9.0
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	15.9	//////////	//////////
TOTALS	37.0	31.3	12.4	2.3	1.0							100.0	5.1	5.0

TOTAL NUMBER OF OBSERVATIONS 870

C - 4 - 118

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.6	.2	.0								1.6	5.1	4.0
020-040	.9	.4	.0									1.4	3.8	3.0
050-070	4.1	3.2	.4	.0								7.7	4.6	4.0
(E) 080-100	5.4	2.6	.7	.0								8.7	4.6	4.0
110-130	1.7	.3	.0									2.0	2.8	2.0
140-160	.7	.1	.0									.8	2.8	2.0
(S) 170-190	.8	.7	.1	.0								1.6	4.9	5.0
200-220	2.1	3.3	2.4	.4	.0	.0						8.2	7.7	8.0
230-250	9.3	13.4	6.5	1.3	.2							30.6	7.0	7.0
(W) 260-280	6.4	4.9	2.3	.7	.2	.0						14.5	6.4	5.0
290-310	3.3	1.4	.6	.2	.1							5.6	5.4	4.0
320-340	1.3	.6	.0	.0								1.9	4.0	4.0
VARIABLE		.1	.3	.0	.0							.4	11.5	10.0
CALM	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	//////	14.8	//////////	
TOTALS	36.9	31.6	13.5	2.6	.5							100.0	5.2	5.0

TOTAL NUMBER OF OBSERVATIONS 7105

C - 4 - 119

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.5	.3	.2									1.0	5.4	4.0
020-040	.6	.1	.0									.7	3.1	2.0
050-070	2.8	2.5	.7									5.9	5.2	5.0
(E) 080-100	5.0	2.2	1.2	.0								8.5	5.0	4.0
110-130	1.6	.3										1.9	3.1	3.0
140-160	1.1		.0									1.2	2.6	3.0
(S) 170-190	1.3	.9	.1	.1								2.4	4.5	4.0
200-220	2.5	5.3	4.0	.6	.1	.0						12.6	8.2	8.0
230-250	9.6	17.3	9.7	1.9	.4							38.9	7.6	7.0
(W) 260-280	4.9	3.8	2.3	.5	.2							11.7	6.5	6.0
290-310	2.3	1.0	.6	.1	.0							4.0	5.4	3.0
320-340	.7	.1										.7	2.8	2.0
VARIABLE														
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	10.5	//////////	//////////
TOTALS	32.9	33.8	18.8	3.2	.7							100.0	6.0	6.0

TOTAL NUMBER OF OBSERVATIONS 2677

C - 4 - 120

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: ALL HOURS: ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	1.5	1.1	.3	.0								2.9	5.0	4.0
020-040	1.7	1.6	.4	.0								3.7	5.2	5.0
050-070	4.9	4.7	1.5	.2	.0							11.3	5.6	5.0
(E) 080-100	5.5	3.3	1.1	.1	.0							10.0	5.0	4.0
110-130	1.5	.4	.0	.0								1.9	3.4	3.0
140-160	.8	.2	.0	.0								1.1	3.4	3.0
(S) 170-190	1.2	.8	.3	.0	.0							2.3	5.1	4.0
200-220	2.2	3.3	2.0	.4	.1	.0						8.0	7.5	7.0
230-250	7.0	9.5	4.8	.8	.1	.0	.0					22.1	6.9	6.0
(W) 260-280	5.5	3.5	1.0	.2	.0	.0	.0					10.2	5.0	4.0
290-310	3.2	1.7	.3	.0	.0	.0						5.3	4.4	4.0
320-340	1.8	1.0	.1	.0								2.9	4.2	4.0
VARIABLE	.0	.4	.3	.0	.0							.8	9.4	9.0
CALM	////	////	////	////	////	////	////	////	////	////	////	17.4	////	////
TOTALS	36.8	31.5	12.1	1.7	.2							100.0	4.8	5.0

TOTAL NUMBER OF OBSERVATIONS: 84998

C - 4 - 121

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: ALL HOURS: ALL

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

DIRECTION (DEGREES)	WIND SPEED IN KNOTS 1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-49	50-64	GE 65	TOTAL %	MEAN WIND	MEDIAN WIND
(N) 350-010	.9	.7	.2	.0								1.7	5.1	5.0
020-040	1.3	1.1	.3	.0								2.7	5.2	5.0
050-070	3.5	3.5	1.3	.1	.0							8.4	5.7	5.0
(E) 080-100	4.5	2.4	.7	.1								7.7	4.6	4.0
110-130	1.1	.2	.0									1.3	2.9	2.0
140-160	.6	.1	.0	.0								.8	3.4	3.0
(S) 170-190	1.2	.9	.3	.1	.0							2.4	5.4	5.0
200-220	2.5	5.4	3.7	.9	.2	.0						12.7	8.3	8.0
230-250	7.9	15.5	9.0	1.3	.2	.0						34.0	7.6	7.0
(W) 260-280	4.9	3.5	1.3	.2	.0							9.9	5.4	5.0
290-310	2.0	1.0	.3	.0	.0	.0						3.3	4.5	4.0
320-340	1.0	.4	.0	.0								1.5	3.9	3.0
VARIABLE														
CALM	////	////	////	////	////	////	////	////	////	////	////	13.4	////	////
TOTALS	31.4	34.7	17.1	2.7	.4							100.0	5.6	6.0

TOTAL NUMBER OF OBSERVATIONS: 19403

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PPPPPPPP        AAAAAA        RRRRRRRR        TTTTTTTTTT        DDDDDDDD
PPPPPPPPP      AAAAAAAA       RRRRRRRRR       TTTTTTTTTT        DDDDDDDDD
PP      PP     AA      AA     RR      RR          TT            DD      DD
PP      PP     AA      AA     RR      RR          TT            DD      DD
PPPPPPPPP      AA      AA     RRRRRRRRR           TT            DD      DD
PPPPPPPP       AAAAAAAAAA     RRRRRRRR            TT            DD      DD
PP             AAAAAAAAAA     RR    RR            TT            DD      DD
PP             AA      AA     RR     RR           TT            DD      DD
PP             AA      AA     RR      RR          TT            DDDDDDDDD
PP             AA      AA     RR       RR         TT            DDDDDDDDD
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PART D

CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

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

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

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

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

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

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

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

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

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

0/8.....CLEAR

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

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

8/8.....OVERCAST

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

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	11.5	11.9	14.6	15.7	16.4	17.1	18.2	19.3	19.4	20.4	20.6	20.9	21.3	21.4	21.7	22.0
GE 20000	12.3	12.8	15.5	16.6	17.2	18.0	19.1	20.3	20.4	21.4	21.6	21.9	22.2	22.4	22.7	23.0
GE 18000	12.3	12.8	15.5	16.6	17.2	18.0	19.1	20.3	20.4	21.4	21.6	21.9	22.2	22.4	22.7	23.0
GE 16000	12.3	12.8	15.5	16.6	17.2	18.0	19.1	20.3	20.4	21.4	21.6	21.9	22.2	22.4	22.7	23.0
GE 14000	12.3	12.8	15.5	16.6	17.2	18.0	19.1	20.3	20.4	21.4	21.6	21.9	22.2	22.4	22.7	23.0
GE 12000	12.4	12.9	15.6	16.7	17.3	18.1	19.2	20.4	20.5	21.5	21.7	22.0	22.4	22.5	22.8	23.1
GE 10000	13.1	13.5	16.4	17.4	18.1	18.9	20.0	21.2	21.3	22.2	22.5	22.8	23.1	23.2	23.6	23.9
GE 9000	13.6	14.1	17.0	18.1	18.8	19.5	20.6	21.8	21.9	22.9	23.1	23.4	23.8	23.9	24.2	24.5
GE 8000	14.8	15.3	18.3	19.4	20.6	21.4	22.5	23.7	23.8	24.8	25.0	25.3	25.6	25.7	26.1	26.4
GE 7000	14.8	15.3	18.4	19.5	20.7	21.5	22.7	23.9	24.0	25.0	25.2	25.5	25.8	26.0	26.3	26.6
GE 6000	15.2	15.6	18.9	20.0	21.2	21.9	23.1	24.3	24.4	25.4	25.6	26.0	26.3	26.4	26.7	27.0
GE 5000	15.3	15.7	19.1	20.2	21.4	22.1	23.3	24.5	24.6	25.6	25.8	26.2	26.5	26.6	26.9	27.3
GE 4500	16.6	17.0	20.4	21.5	22.7	23.4	24.6	25.8	26.0	26.9	27.2	27.6	27.9	28.0	28.4	28.7
GE 4000	17.7	18.1	21.6	22.7	23.9	24.6	26.1	27.3	27.4	28.4	28.6	29.0	29.3	29.4	29.8	30.1
GE 3500	19.6	20.2	23.8	24.9	26.1	26.8	28.2	29.4	29.6	30.5	30.8	31.2	31.5	31.6	32.0	32.3
GE 3000	22.5	23.0	26.9	28.1	29.4	30.2	31.6	33.0	33.2	34.1	34.4	34.8	35.1	35.2	35.6	35.9
GE 2500	23.9	24.5	28.6	29.8	31.1	31.8	33.3	34.7	34.8	35.8	36.0	36.5	36.9	37.0	37.3	37.6
GE 2000	28.1	29.0	33.4	34.7	36.2	37.0	38.5	40.5	40.6	41.5	41.9	42.4	42.7	42.9	43.2	43.5
GE 1800	30.1	31.0	35.4	37.1	38.9	39.7	41.2	43.4	43.5	44.6	44.9	45.5	45.8	45.9	46.2	46.6
GE 1500	34.1	35.0	40.1	42.0	44.5	45.5	47.2	49.4	49.5	50.6	50.9	51.5	51.8	52.0	52.3	52.7
GE 1200	38.1	39.1	44.6	46.6	49.2	50.3	52.0	54.2	54.3	55.9	56.3	56.8	57.1	57.4	57.8	58.1
GE 1000	41.3	42.7	48.9	50.8	54.1	55.4	57.1	59.3	59.4	61.1	61.4	61.9	62.3	62.5	62.9	63.2
GE 900	41.9	43.3	49.5	51.5	54.9	56.2	58.0	60.2	60.5	62.4	62.7	63.2	63.6	63.8	64.2	64.6
GE 800	43.3	44.7	51.3	53.2	56.7	58.0	60.0	62.3	62.6	64.6	65.0	65.5	65.9	66.1	66.5	66.8
GE 700	45.8	47.2	54.5	57.0	60.6	62.2	64.7	67.0	67.6	69.8	70.4	71.0	71.3	71.5	72.0	72.3
GE 600	46.9	48.3	56.9	59.5	63.5	65.0	67.8	70.1	70.9	73.1	74.0	74.8	75.1	75.4	75.8	76.1
GE 500	48.1	49.5	58.6	61.4	66.2	68.0	71.2	73.8	75.0	77.3	78.6	79.4	79.7	80.0	80.5	80.8
GE 400	48.9	50.3	59.8	62.6	68.4	70.6	73.8	76.6	77.9	80.6	82.2	83.0	83.3	83.9	84.3	84.6
GE 300	49.0	50.4	60.1	62.9	68.8	71.0	75.1	78.2	79.7	82.9	84.5	85.4	85.7	86.4	86.8	87.1
GE 200	49.0	50.4	60.1	63.1	69.1	71.3	75.9	79.2	80.8	84.1	86.4	87.7	88.4	89.5	90.4	90.9
GE 100	49.0	50.4	60.1	63.1	69.1	71.3	75.9	79.2	80.8	84.3	87.1	88.9	90.0	91.6	94.4	99.5
GE 000	49.0	50.4	60.1	63.1	69.1	71.3	75.9	79.2	80.8	84.3	87.1	88.9	90.1	91.7	94.5	100.0

TOTAL NUMBER OF OBSERVATIONS 917

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	12.4	12.9	16.4	17.3	18.1	19.3	19.5	20.2	20.3	20.8	21.6	21.8	21.9	22.6	22.8	22.9
GE 20000	13.1	13.7	17.2	18.1	19.0	20.3	20.5	21.2	21.3	21.8	22.6	22.8	22.9	23.6	23.8	23.9
GE 18000	13.1	13.7	17.2	18.1	19.0	20.3	20.5	21.2	21.3	21.8	22.6	22.8	22.9	23.6	23.8	23.9
GE 16000	13.1	13.7	17.2	18.1	19.0	20.3	20.5	21.2	21.3	21.8	22.6	22.8	22.9	23.6	23.8	23.9
GE 14000	13.1	13.7	17.2	18.1	19.0	20.3	20.5	21.2	21.3	21.8	22.6	22.8	22.9	23.6	23.8	23.9
GE 12000	13.1	13.7	17.2	18.1	19.0	20.3	20.5	21.2	21.3	21.8	22.6	22.8	22.9	23.6	23.8	23.9
GE 10000	13.6	14.1	17.7	18.7	19.5	20.8	21.1	21.7	21.8	22.4	23.1	23.3	23.5	24.1	24.3	24.4
GE 9000	13.8	14.3	18.1	19.3	20.2	21.5	21.7	22.4	22.5	23.0	23.8	24.0	24.1	24.8	25.0	25.1
GE 8000	15.0	15.6	19.7	20.8	21.8	23.1	23.5	24.1	24.2	25.0	25.7	26.0	26.1	26.7	26.9	27.0
GE 7000	15.1	15.7	19.8	21.0	21.9	23.2	23.6	24.2	24.3	25.1	25.8	26.1	26.2	26.8	27.0	27.1
GE 6000	15.3	16.0	20.1	21.3	22.3	23.6	23.9	24.5	24.6	25.4	26.2	26.4	26.5	27.1	27.4	27.5
GE 5000	15.4	16.1	20.2	21.4	22.4	23.7	24.0	24.6	24.8	25.5	26.3	26.5	26.6	27.3	27.5	27.6
GE 4500	16.2	16.8	21.2	22.4	23.7	25.0	25.3	26.0	26.1	26.8	27.6	27.9	28.1	28.8	29.0	29.1
GE 4000	16.8	17.5	21.8	23.0	24.3	25.6	26.2	26.8	26.9	27.7	28.4	28.8	29.0	29.6	29.9	30.0
GE 3500	18.1	19.0	23.3	24.5	26.0	27.3	27.8	28.4	28.6	29.3	30.1	30.4	30.6	31.3	31.5	31.6
GE 3000	20.6	21.6	26.3	27.6	29.3	30.6	31.2	31.9	32.0	32.8	33.6	33.9	34.1	34.7	35.0	35.1
GE 2500	21.5	22.5	27.1	28.4	30.2	31.5	32.4	33.1	33.2	34.0	34.7	35.1	35.3	35.9	36.2	36.3
GE 2000	25.5	26.5	31.8	33.1	34.9	36.2	37.0	38.1	38.2	39.0	39.7	40.1	40.3	40.9	41.2	41.3
GE 1800	26.6	27.6	33.2	34.5	36.8	38.4	39.5	40.7	40.8	41.6	42.3	42.7	42.9	43.5	43.8	43.9
GE 1500	30.7	31.7	37.5	38.8	41.6	43.9	45.0	46.8	47.1	48.0	48.9	49.2	49.4	50.1	50.3	50.4
GE 1200	34.3	35.4	41.5	43.0	45.8	48.1	49.3	51.1	51.5	52.7	53.5	53.9	54.1	54.7	54.9	55.0
GE 1000	37.9	39.0	45.2	46.8	49.8	52.4	53.9	55.7	56.1	57.3	58.2	58.5	58.7	59.4	59.6	59.7
GE 900	38.8	39.8	46.3	48.1	51.1	53.7	55.2	57.0	57.5	58.7	59.9	60.3	60.5	61.1	61.3	61.5
GE 800	39.8	40.9	47.4	49.3	52.4	55.0	56.6	58.4	59.0	60.3	61.7	62.0	62.2	62.9	63.1	63.2
GE 700	42.0	43.2	50.7	52.8	56.6	59.8	61.9	63.8	64.6	65.9	67.4	67.8	68.0	68.6	68.8	68.9
GE 600	43.2	44.4	52.9	55.0	59.1	62.3	64.5	66.4	67.3	68.6	70.2	70.6	70.8	71.4	71.7	71.8
GE 500	44.0	45.3	54.9	57.2	62.2	65.7	68.2	70.5	71.4	73.1	74.8	75.1	75.6	76.2	76.4	76.5
GE 400	44.8	46.1	56.0	58.3	64.1	68.0	71.3	73.9	75.0	76.7	78.6	78.9	79.5	80.1	80.3	80.5
GE 300	44.8	46.1	56.5	58.8	65.0	69.2	73.1	75.7	77.0	78.9	81.2	81.5	82.1	82.7	83.1	83.2
GE 200	44.8	46.1	56.5	59.1	65.7	69.9	73.8	76.5	78.4	80.7	83.2	83.8	84.8	86.4	87.4	87.6
GE 100	44.8	46.1	56.5	59.1	65.8	70.1	74.3	77.0	78.9	81.3	84.0	85.5	86.5	89.4	93.9	99.5
GE 000	44.8	46.1	56.5	59.1	65.8	70.1	74.3	77.0	78.9	81.3	84.0	85.6	86.6	89.5	94.0	100.0

TOTAL NUMBER OF OBSERVATIONS 921

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	11.4	11.6	14.2	14.9	16.7	17.2	17.5	17.7	18.1	18.4	18.7	19.2	19.2	19.6	20.0	20.0
GE 20000	13.2	13.4	16.1	17.0	18.8	19.4	19.7	19.9	20.2	20.6	20.9	21.3	21.3	21.8	22.2	22.2
GE 18000	13.2	13.4	16.1	17.0	18.8	19.4	19.7	19.9	20.2	20.6	20.9	21.3	21.3	21.8	22.2	22.2
GE 16000	13.2	13.4	16.1	17.0	18.8	19.4	19.7	19.9	20.2	20.6	20.9	21.3	21.3	21.8	22.2	22.2
GE 14000	13.2	13.4	16.1	17.0	18.8	19.4	19.7	19.9	20.2	20.6	20.9	21.3	21.3	21.8	22.2	22.2
GE 12000	13.2	13.4	16.1	17.0	18.8	19.4	19.7	19.9	20.2	20.6	20.9	21.3	21.3	21.8	22.2	22.2
GE 10000	13.3	13.5	16.2	17.1	19.0	19.6	19.9	20.1	20.5	20.9	21.2	21.6	21.6	22.1	22.5	22.5
GE 9000	13.7	14.0	16.8	17.6	19.6	20.1	20.5	20.7	21.0	21.4	21.8	22.2	22.2	22.6	23.1	23.1
GE 8000	14.7	15.0	17.9	18.7	20.7	21.2	21.5	21.9	22.2	22.7	23.2	23.6	23.6	24.0	24.5	24.5
GE 7000	14.7	15.0	18.0	18.8	20.8	21.3	21.6	22.0	22.3	22.9	23.4	23.8	23.8	24.2	24.7	24.7
GE 6000	14.7	15.0	18.2	19.0	21.0	21.5	21.9	22.2	22.5	23.2	23.6	24.0	24.0	24.5	24.9	24.9
GE 5000	14.8	15.2	18.3	19.2	21.1	21.6	22.0	22.3	22.6	23.3	23.7	24.1	24.1	24.6	25.0	25.0
GE 4500	15.7	16.0	19.7	20.6	22.5	23.1	23.4	23.7	24.0	24.9	25.3	25.8	25.8	26.2	26.6	26.6
GE 4000	16.3	16.7	20.5	21.5	23.5	24.0	24.4	24.7	25.0	25.9	26.3	26.7	26.7	27.2	27.6	27.6
GE 3500	18.2	18.5	22.6	23.7	25.6	26.2	26.5	26.8	27.2	28.0	28.5	28.9	28.9	29.3	29.8	29.8
GE 3000	20.2	20.7	25.2	26.3	28.2	29.0	29.3	30.1	30.5	31.4	31.8	32.4	32.4	32.8	33.2	33.2
GE 2500	21.3	21.8	26.6	27.8	29.8	30.7	31.1	31.8	32.3	33.1	33.5	34.1	34.1	34.5	35.0	35.0
GE 2000	25.0	25.5	31.2	32.5	34.4	35.4	35.8	36.6	37.0	37.9	38.3	38.9	38.9	39.3	39.7	39.7
GE 1800	26.2	26.9	33.0	34.3	36.3	37.2	38.0	38.7	39.4	40.3	40.8	41.3	41.3	41.8	42.2	42.2
GE 1500	30.2	31.0	37.2	38.7	41.8	42.9	43.8	44.8	45.5	46.3	46.9	47.4	47.4	47.8	48.3	48.3
GE 1200	34.5	35.3	41.8	43.3	46.8	48.2	49.5	50.5	51.2	52.3	52.8	53.4	53.4	53.8	54.2	54.2
GE 1000	38.3	39.1	46.2	47.9	51.6	53.2	54.8	56.1	56.7	58.0	58.5	59.2	59.2	59.6	60.1	60.1
GE 900	39.8	40.6	47.8	49.7	53.5	55.1	56.6	58.0	58.7	60.1	60.8	61.5	61.5	61.9	62.3	62.3
GE 800	41.6	42.3	49.9	51.7	55.6	57.5	59.0	60.4	61.3	62.8	63.9	64.5	64.5	64.9	65.4	65.4
GE 700	43.3	44.3	52.2	54.4	58.7	60.5	62.3	63.7	64.7	66.2	67.3	68.0	68.0	68.4	68.8	68.8
GE 600	43.7	44.7	53.0	55.5	59.7	61.9	63.9	65.4	66.3	67.9	69.0	69.7	69.7	70.1	70.6	70.6
GE 500	44.9	45.9	56.1	58.8	63.6	65.8	67.9	69.7	71.1	72.7	74.5	75.1	75.1	75.5	76.0	76.0
GE 400	45.5	46.4	56.8	59.5	65.3	67.5	70.1	72.4	73.8	75.5	77.3	77.9	77.9	78.4	78.8	78.8
GE 300	45.7	46.6	57.0	59.8	66.0	68.6	71.3	74.0	75.6	77.6	80.7	81.4	81.7	82.3	82.8	82.8
GE 200	45.7	46.6	57.0	60.0	66.2	68.8	71.9	75.0	76.8	79.0	83.0	84.2	85.5	87.1	88.5	88.6
GE 100	45.7	46.6	57.0	60.0	66.5	69.0	72.1	75.2	77.1	79.3	83.8	85.4	87.2	90.0	94.2	99.1
GE 000	45.7	46.6	57.0	60.0	66.5	69.0	72.1	75.2	77.1	79.3	83.8	85.4	87.2	90.0	94.2	100.0

TOTAL NUMBER OF OBSERVATIONS 924

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	8.5	8.8	10.6	11.5	13.9	14.0	15.0	15.0	15.3	15.3	15.8	16.0	16.1	16.5	16.6	16.8
GE 20000	9.6	9.8	12.0	12.9	15.3	15.4	16.5	16.5	16.7	16.9	17.4	17.6	17.7	18.1	18.3	18.5
GE 18000	9.6	9.8	12.0	12.9	15.3	15.4	16.5	16.5	16.7	16.9	17.4	17.6	17.7	18.1	18.3	18.5
GE 16000	9.6	9.8	12.0	12.9	15.3	15.4	16.5	16.5	16.7	16.9	17.4	17.6	17.7	18.1	18.3	18.5
GE 14000	9.6	9.8	12.0	12.9	15.3	15.4	16.5	16.5	16.7	16.9	17.4	17.6	17.7	18.1	18.3	18.5
GE 12000	9.7	10.0	12.1	13.0	15.4	15.5	16.6	16.7	16.9	17.1	17.6	17.9	18.0	18.3	18.5	18.7
GE 10000	10.8	11.0	13.7	14.6	17.1	17.2	18.3	18.4	18.6	18.8	19.4	19.6	19.7	20.0	20.2	20.5
GE 9000	11.3	11.5	14.3	15.4	17.9	18.0	19.0	19.2	19.4	19.6	20.1	20.3	20.5	20.8	21.0	21.2
GE 8000	12.2	12.6	15.4	16.5	19.3	19.9	21.0	21.2	21.4	21.8	22.3	22.5	22.6	22.9	23.2	23.4
GE 7000	12.3	12.7	16.1	17.2	20.0	20.7	21.8	22.0	22.2	22.6	23.2	23.4	23.5	23.8	24.0	24.2
GE 6000	12.4	12.8	16.2	17.3	20.1	20.8	21.9	22.1	22.3	22.7	23.3	23.5	23.6	23.9	24.1	24.4
GE 5000	12.9	13.2	16.8	17.9	20.7	21.3	22.4	22.6	22.9	23.5	24.0	24.2	24.4	24.7	24.9	25.1
GE 4500	13.5	13.9	17.5	18.6	21.4	22.1	23.3	23.5	23.9	24.7	25.2	25.4	25.5	25.9	26.1	26.3
GE 4000	14.4	14.7	18.5	19.7	22.8	23.6	24.9	25.2	25.6	26.5	27.1	27.3	27.4	27.7	27.9	28.1
GE 3500	16.1	16.6	20.7	21.9	25.0	25.8	27.2	27.6	28.2	29.2	29.8	30.0	30.2	30.5	30.7	31.0
GE 3000	17.1	17.5	22.7	24.1	27.4	28.1	29.7	30.1	30.8	31.8	32.4	32.6	32.8	33.1	33.3	33.5
GE 2500	18.8	19.3	24.9	26.3	29.7	30.4	32.0	32.7	33.4	34.5	35.1	35.3	35.5	35.8	36.0	36.3
GE 2000	22.5	23.6	29.8	31.2	34.8	36.0	37.7	38.9	39.6	41.3	42.0	42.2	42.4	42.7	43.0	43.2
GE 1800	23.3	24.5	30.7	32.1	35.8	37.0	38.6	39.8	40.7	42.4	43.1	43.3	43.5	43.8	44.0	44.3
GE 1500	27.9	29.4	36.3	38.0	42.2	43.4	45.1	46.6	47.7	49.7	50.4	50.6	50.9	51.2	51.4	51.6
GE 1200	31.5	33.0	40.8	42.5	47.2	48.4	50.2	51.8	52.9	55.0	55.7	56.0	56.2	56.5	56.7	56.9
GE 1000	33.4	35.0	44.0	45.8	50.9	52.3	54.3	56.1	57.1	59.6	60.4	60.6	60.8	61.1	61.4	61.6
GE 900	35.2	36.7	46.5	48.4	53.6	55.0	57.1	59.0	60.1	62.6	63.4	63.6	63.9	64.3	64.5	64.7
GE 800	36.1	37.7	47.8	49.8	55.1	56.6	59.3	61.3	62.4	65.2	66.2	66.6	66.8	67.2	67.4	67.6
GE 700	37.2	38.7	49.7	52.2	58.3	60.4	63.5	65.6	66.8	69.7	70.9	71.2	71.5	72.0	72.3	72.5
GE 600	38.0	39.5	50.9	53.4	60.0	62.0	65.3	67.5	68.7	71.6	73.2	73.5	73.8	74.4	74.7	74.9
GE 500	38.6	40.2	52.2	54.7	62.2	64.7	68.2	70.7	72.0	75.0	77.2	77.5	77.9	78.5	78.8	79.0
GE 400	39.0	40.5	52.8	55.4	63.2	65.7	69.6	72.4	74.5	77.9	80.7	81.1	81.5	82.0	82.4	82.6
GE 300	39.0	40.5	53.0	55.8	64.0	66.6	70.7	74.2	76.9	81.0	84.4	85.0	85.4	86.1	86.8	87.1
GE 200	39.0	40.5	53.0	55.8	64.0	66.7	70.8	74.7	77.5	81.6	85.5	86.4	87.1	89.3	90.7	91.7
GE 100	39.0	40.5	53.0	55.8	64.0	66.7	70.8	74.7	77.5	81.6	85.7	86.6	87.6	90.2	93.4	98.6
GE 000	39.0	40.5	53.0	55.8	64.0	66.7	70.8	74.7	77.5	81.6	85.7	86.6	87.6	90.2	93.4	100.0

TOTAL NUMBER OF OBSERVATIONS 924

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	7.6	8.1	11.0	12.0	14.5	14.7	15.5	15.9	16.1	16.6	16.7	16.7	16.8	16.8	16.9	17.2
GE 20000	9.0	9.5	12.4	13.5	16.2	16.5	17.3	17.7	18.0	18.4	18.5	18.5	18.6	18.6	18.7	19.0
GE 18000	9.0	9.5	12.4	13.5	16.2	16.5	17.3	17.7	18.0	18.4	18.5	18.5	18.6	18.6	18.7	19.0
GE 16000	9.0	9.5	12.4	13.5	16.2	16.5	17.3	17.7	18.0	18.4	18.5	18.5	18.6	18.6	18.7	19.0
GE 14000	9.2	9.7	12.7	13.7	16.5	16.7	17.5	18.0	18.2	18.6	18.7	18.7	18.8	18.8	18.9	19.3
GE 12000	9.2	9.7	12.7	13.7	16.5	16.7	17.5	18.3	18.5	18.9	19.0	19.0	19.2	19.2	19.3	19.6
GE 10000	10.6	11.1	14.1	15.2	17.9	18.2	19.0	19.8	20.0	20.5	20.6	20.6	20.7	20.7	20.8	21.1
GE 9000	10.8	11.4	14.6	16.1	19.0	19.4	20.2	21.0	21.2	21.6	21.8	21.8	21.9	21.9	22.0	22.3
GE 8000	12.1	12.7	16.2	18.1	21.2	21.6	22.8	23.6	23.8	24.2	24.4	24.4	24.5	24.5	24.6	24.9
GE 7000	12.7	13.2	16.9	18.7	22.0	22.5	23.7	24.6	24.8	25.2	25.3	25.3	25.4	25.4	25.5	25.9
GE 6000	12.7	13.2	16.9	18.7	22.1	22.6	23.8	24.7	24.9	25.3	25.4	25.4	25.5	25.5	25.6	26.0
GE 5000	12.9	13.4	17.1	18.9	22.5	23.1	24.2	25.1	25.3	25.8	25.9	25.9	26.0	26.0	26.1	26.4
GE 4500	13.2	13.7	17.4	19.3	22.8	23.4	24.6	25.4	25.6	26.1	26.2	26.2	26.3	26.3	26.4	26.7
GE 4000	14.1	14.6	18.6	20.6	24.4	24.9	26.2	27.1	27.3	27.7	27.8	27.8	27.9	27.9	28.0	28.4
GE 3500	15.4	16.0	20.1	22.2	26.1	26.7	28.0	28.9	29.1	29.5	29.7	29.7	29.8	29.8	29.9	30.2
GE 3000	18.8	19.8	24.8	26.9	31.1	31.7	33.2	34.1	34.3	34.7	34.8	34.8	35.0	35.0	35.1	35.4
GE 2500	20.7	21.8	26.7	29.1	33.5	34.2	35.8	36.8	37.2	37.8	37.9	37.9	38.0	38.0	38.1	38.4
GE 2000	25.5	26.9	32.3	35.1	39.6	40.4	42.2	43.6	44.4	45.1	45.2	45.2	45.3	45.3	45.5	45.8
GE 1800	27.3	28.7	34.2	37.0	41.6	42.3	44.2	45.8	46.5	47.3	47.4	47.4	47.5	47.5	47.6	47.9
GE 1500	31.4	33.0	39.7	42.5	47.6	48.7	50.6	52.4	53.1	54.0	54.2	54.2	54.3	54.3	54.4	54.8
GE 1200	35.0	36.8	43.7	46.6	51.9	53.0	55.1	56.9	57.7	58.7	58.9	58.9	59.0	59.0	59.1	59.4
GE 1000	38.2	40.2	48.7	51.8	57.9	59.0	61.3	63.2	64.1	65.6	65.8	65.8	65.9	65.9	66.0	66.3
GE 900	39.1	41.0	50.4	53.6	59.6	60.8	63.1	65.0	65.9	67.6	68.1	68.1	68.2	68.2	68.3	68.6
GE 800	40.0	42.1	51.8	55.1	61.5	63.1	65.4	67.5	68.4	70.2	70.9	70.9	71.0	71.0	71.1	71.4
GE 700	40.7	42.9	53.6	56.8	63.5	65.5	68.1	70.5	71.6	73.9	74.9	74.9	75.0	75.0	75.1	75.4
GE 600	41.2	43.5	54.7	58.0	65.0	67.1	69.9	72.3	73.7	76.1	77.2	77.2	77.3	77.4	77.5	77.8
GE 500	42.0	44.3	56.5	60.5	68.8	71.1	74.5	77.1	78.6	81.2	82.4	82.4	82.6	82.8	82.9	83.2
GE 400	42.1	44.4	56.6	60.9	69.8	72.3	76.1	79.3	81.3	84.2	85.6	86.0	86.3	86.5	86.6	86.9
GE 300	42.1	44.5	56.9	61.3	70.3	72.8	76.9	80.4	83.2	86.7	88.4	89.5	89.7	90.4	90.5	90.9
GE 200	42.1	44.5	56.9	61.3	70.3	72.8	77.1	80.5	83.3	87.2	89.0	90.5	90.8	91.7	92.5	93.6
GE 100	42.1	44.5	56.9	61.3	70.3	72.8	77.1	80.5	83.3	87.2	89.2	91.0	91.7	92.9	95.2	99.0
GE 000	42.1	44.5	56.9	61.3	70.3	72.8	77.1	80.5	83.3	87.2	89.2	91.0	91.7	92.9	95.2	100.0

TOTAL NUMBER OF OBSERVATIONS 924

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	10.4	10.6	13.6	14.4	16.6	17.2	17.6	17.6	18.2	18.7	18.8	18.8	18.8	18.8	18.9	19.0
GE 20000	12.1	12.3	15.9	16.7	19.6	20.2	20.8	20.8	21.3	21.9	22.0	22.0	22.0	22.0	22.1	22.2
GE 18000	12.3	12.6	16.1	16.9	19.8	20.5	21.0	21.0	21.5	22.1	22.2	22.2	22.2	22.2	22.3	22.4
GE 16000	12.3	12.6	16.1	16.9	19.8	20.5	21.0	21.0	21.5	22.1	22.2	22.2	22.2	22.2	22.3	22.4
GE 14000	12.4	12.7	16.2	17.0	19.9	20.6	21.1	21.1	21.6	22.2	22.3	22.3	22.3	22.3	22.4	22.5
GE 12000	12.9	13.1	16.7	17.4	20.3	21.0	21.5	21.8	22.3	22.8	22.9	22.9	22.9	22.9	23.1	23.2
GE 10000	13.4	13.7	17.5	18.4	21.3	22.0	22.5	22.8	23.4	23.9	24.0	24.0	24.0	24.0	24.1	24.2
GE 9000	13.6	14.0	17.7	18.7	21.6	22.3	22.9	23.3	23.8	24.4	24.5	24.5	24.5	24.5	24.6	24.7
GE 8000	14.7	15.0	19.3	20.2	23.7	24.4	25.0	25.3	25.9	26.4	26.5	26.5	26.5	26.5	26.6	26.7
GE 7000	15.4	15.7	19.9	20.9	24.4	25.0	25.9	26.2	26.7	27.3	27.4	27.4	27.4	27.4	27.5	27.6
GE 6000	15.4	15.7	19.9	20.9	24.4	25.0	25.9	26.2	26.7	27.3	27.4	27.4	27.4	27.4	27.5	27.6
GE 5000	15.7	16.0	20.2	21.2	24.7	25.4	26.5	26.8	27.4	27.9	28.0	28.0	28.0	28.0	28.1	28.2
GE 4500	16.2	16.6	21.1	22.1	25.5	26.3	27.4	27.7	28.2	28.8	28.9	28.9	28.9	28.9	29.0	29.1
GE 4000	17.2	17.5	22.1	23.1	26.5	27.3	28.4	28.7	29.2	29.8	29.9	29.9	29.9	29.9	30.0	30.1
GE 3500	19.5	19.9	24.6	25.5	29.0	30.0	31.1	31.4	31.9	32.5	32.6	32.6	32.6	32.6	32.7	32.8
GE 3000	24.8	25.4	30.5	31.5	35.5	36.6	37.8	38.2	38.7	39.3	39.4	39.4	39.4	39.4	39.5	39.6
GE 2500	26.9	28.0	34.3	35.6	39.7	40.8	42.2	42.6	43.2	43.7	43.8	43.8	43.8	43.8	43.9	44.0
GE 2000	32.1	33.4	40.3	41.9	46.4	47.7	49.2	50.1	50.6	51.2	51.3	51.4	51.4	51.4	51.5	51.6
GE 1800	34.2	35.6	42.7	44.4	48.9	50.2	51.7	52.6	53.1	53.7	53.8	53.9	53.9	53.9	54.0	54.1
GE 1500	38.4	40.2	48.6	50.3	55.4	56.7	58.5	59.5	60.2	60.7	60.9	61.0	61.0	61.0	61.1	61.3
GE 1200	41.2	43.1	52.4	54.3	59.7	61.1	63.1	64.3	65.0	65.6	65.8	65.9	65.9	65.9	66.0	66.1
GE 1000	43.3	45.1	54.9	57.5	63.9	65.4	67.5	68.7	69.5	70.6	70.9	71.0	71.0	71.0	71.1	71.2
GE 900	44.4	46.3	56.1	58.8	65.3	66.8	68.9	70.1	70.9	72.0	72.3	72.4	72.4	72.4	72.5	72.6
GE 800	44.7	46.6	56.7	59.6	66.3	67.9	70.0	71.2	72.2	73.3	73.7	73.8	73.8	73.8	73.9	74.0
GE 700	45.2	47.2	58.2	61.3	68.0	69.7	72.4	73.8	75.0	76.6	77.7	77.8	77.8	77.9	78.0	78.1
GE 600	45.6	47.7	59.5	62.8	69.6	71.3	74.1	75.6	76.8	78.5	79.8	79.9	80.1	80.2	80.3	80.4
GE 500	46.3	48.5	60.9	65.0	72.6	75.1	78.2	80.0	81.3	83.0	84.8	85.1	85.3	85.4	85.5	85.6
GE 400	46.5	48.8	61.6	65.7	73.8	76.4	79.7	81.5	83.4	85.7	88.1	88.3	88.7	88.9	89.0	89.1
GE 300	46.5	48.8	61.6	65.7	73.8	76.5	80.2	82.0	84.2	86.7	89.4	89.6	90.2	90.5	90.6	90.7
GE 200	46.5	48.8	61.6	65.7	73.8	76.7	80.7	82.9	85.3	89.2	92.0	92.4	93.5	95.1	95.9	96.1
GE 100	46.5	48.8	61.6	65.7	73.8	76.7	80.7	82.9	85.3	89.2	92.1	92.5	93.8	95.8	97.6	99.7
GE 000	46.5	48.8	61.6	65.7	73.8	76.7	80.7	82.9	85.3	89.2	92.1	92.5	93.8	95.8	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 924

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	14.8	15.3	18.5	19.4	21.2	21.6	22.4	22.4	22.7	23.5	23.6	23.7	23.7	23.9	23.9	23.9
GE 20000	16.3	16.8	20.0	21.0	23.1	23.4	24.5	24.5	24.7	25.6	25.7	25.8	25.8	25.9	25.9	25.9
GE 18000	16.3	16.8	20.0	21.0	23.1	23.4	24.5	24.5	24.7	25.6	25.7	25.8	25.8	25.9	25.9	25.9
GE 16000	16.3	16.8	20.0	21.0	23.1	23.4	24.5	24.5	24.7	25.6	25.7	25.8	25.8	25.9	25.9	25.9
GE 14000	16.3	16.8	20.2	21.1	23.2	23.5	24.6	24.6	24.8	25.7	25.8	25.9	25.9	26.0	26.0	26.0
GE 12000	16.3	16.8	20.2	21.1	23.2	23.5	24.6	24.6	24.8	25.7	25.8	25.9	25.9	26.0	26.0	26.0
GE 10000	16.8	17.2	20.6	21.7	23.7	24.3	25.4	25.4	25.6	26.5	26.6	26.7	26.7	26.8	26.8	26.8
GE 9000	17.2	17.6	21.2	22.5	24.7	25.3	26.5	26.5	26.7	27.6	27.7	27.8	27.8	27.9	27.9	27.9
GE 8000	18.5	19.1	22.7	24.2	26.4	26.9	28.1	28.1	28.3	29.2	29.3	29.4	29.4	29.5	29.5	29.5
GE 7000	18.6	19.2	22.8	24.3	26.5	27.0	28.4	28.4	28.6	29.5	29.6	29.7	29.7	29.8	29.8	29.8
GE 6000	18.8	19.4	23.0	24.5	26.8	27.3	28.8	28.8	29.0	29.8	30.0	30.1	30.1	30.2	30.2	30.2
GE 5000	19.0	19.5	23.2	24.7	27.0	27.6	29.0	29.0	29.2	30.1	30.2	30.3	30.3	30.4	30.4	30.4
GE 4500	19.2	19.7	23.4	24.9	27.2	27.9	29.3	29.3	29.5	30.4	30.5	30.6	30.6	30.7	30.7	30.7
GE 4000	20.2	20.7	24.7	26.3	28.5	29.2	30.7	30.7	30.9	31.8	31.9	32.0	32.0	32.1	32.1	32.1
GE 3500	23.6	24.2	28.2	29.7	32.0	32.8	34.3	34.3	34.5	35.4	35.5	35.6	35.6	35.7	35.7	35.7
GE 3000	28.3	28.9	33.7	35.2	37.6	38.3	40.0	40.1	40.3	41.2	41.3	41.4	41.4	41.5	41.5	41.5
GE 2500	30.7	31.6	36.8	38.6	41.0	41.7	43.7	43.9	44.2	45.1	45.2	45.3	45.3	45.4	45.4	45.4
GE 2000	36.3	37.3	43.2	45.2	47.7	48.5	50.4	50.8	51.2	52.2	52.3	52.4	52.4	52.5	52.5	52.5
GE 1800	36.9	37.9	44.4	46.6	49.5	50.2	52.2	52.6	53.1	54.1	54.4	54.5	54.5	54.6	54.6	54.6
GE 1500	40.7	41.9	49.7	52.0	55.4	56.3	58.6	59.3	59.7	60.8	61.2	61.3	61.3	61.4	61.4	61.4
GE 1200	42.8	44.2	52.4	54.8	58.5	59.5	62.0	63.0	63.4	64.7	65.3	65.4	65.4	65.5	65.5	65.5
GE 1000	44.8	46.2	55.4	58.3	62.7	63.8	66.6	67.5	68.1	69.8	70.5	70.6	70.6	70.7	70.7	70.7
GE 900	45.3	46.7	56.6	59.6	64.5	65.6	68.3	69.3	69.8	71.6	72.2	72.3	72.3	72.4	72.4	72.4
GE 800	45.8	47.3	57.2	60.1	65.0	66.1	69.0	69.9	70.5	72.3	73.0	73.3	73.3	73.4	73.4	73.4
GE 700	48.1	49.8	60.2	63.3	68.7	69.9	73.0	74.1	74.6	76.7	77.6	78.0	78.0	78.1	78.1	78.1
GE 600	49.1	50.9	61.7	64.7	70.6	71.8	75.4	76.6	77.1	79.4	80.6	81.0	81.2	81.4	81.4	81.4
GE 500	49.7	51.4	62.5	65.7	72.0	73.4	77.8	79.1	79.7	82.0	83.7	84.1	84.2	84.4	84.4	84.4
GE 400	50.3	52.1	63.6	67.0	74.2	75.6	80.6	81.9	83.0	85.8	87.6	88.2	88.3	88.6	88.6	88.6
GE 300	50.3	52.1	63.6	67.1	74.5	76.0	81.8	83.3	84.4	87.3	89.4	90.4	91.0	91.3	91.3	91.3
GE 200	50.3	52.1	63.7	67.2	74.7	76.3	82.1	83.7	85.0	87.9	90.2	91.5	92.6	93.9	94.6	94.9
GE 100	50.4	52.2	63.8	67.3	74.8	76.4	82.4	83.9	85.2	88.2	90.8	92.2	93.6	95.2	97.4	99.7
GE 000	50.4	52.2	63.8	67.3	74.8	76.4	82.4	83.9	85.2	88.2	90.8	92.2	93.6	95.2	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS 918

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	14.4	15.1	17.4	18.6	19.9	20.4	21.1	22.3	22.3	22.8	23.1	23.1	23.2	23.2	23.3	23.4
GE 20000	15.3	16.0	18.4	19.6	21.0	21.5	22.2	23.5	23.5	24.0	24.3	24.3	24.4	24.4	24.5	24.6
GE 18000	15.3	16.0	18.4	19.6	21.0	21.5	22.2	23.5	23.5	24.0	24.3	24.3	24.4	24.4	24.5	24.6
GE 16000	15.3	16.0	18.4	19.6	21.0	21.5	22.2	23.5	23.5	24.0	24.3	24.3	24.4	24.4	24.5	24.6
GE 14000	15.3	16.0	18.4	19.6	21.0	21.5	22.2	23.5	23.5	24.0	24.3	24.3	24.4	24.4	24.5	24.6
GE 12000	15.5	16.2	18.6	19.8	21.2	21.7	22.4	23.7	23.7	24.2	24.5	24.5	24.6	24.6	24.7	24.8
GE 10000	15.5	16.2	19.0	20.2	22.0	22.4	23.2	24.5	24.5	24.9	25.3	25.3	25.4	25.4	25.5	25.6
GE 9000	16.2	17.0	20.2	21.5	23.3	23.7	24.5	25.8	25.8	26.3	26.6	26.6	26.7	26.7	26.8	26.9
GE 8000	17.8	18.5	21.9	23.3	25.3	25.7	26.7	28.0	28.0	28.4	28.8	28.8	28.9	28.9	29.0	29.1
GE 7000	18.1	18.8	22.2	23.6	25.6	26.0	27.0	28.3	28.3	28.8	29.1	29.1	29.2	29.2	29.3	29.4
GE 6000	18.2	19.0	22.3	23.7	25.7	26.1	27.2	28.5	28.5	29.0	29.3	29.3	29.4	29.4	29.5	29.6
GE 5000	18.8	19.7	23.1	24.5	26.5	26.9	28.0	29.3	29.3	29.7	30.1	30.1	30.2	30.2	30.3	30.4
GE 4500	19.6	20.5	24.1	25.5	27.5	27.9	29.0	30.3	30.3	30.7	31.0	31.0	31.2	31.2	31.3	31.4
GE 4000	20.5	21.4	25.1	26.5	28.5	29.0	30.1	31.4	31.4	31.8	32.1	32.1	32.2	32.2	32.4	32.5
GE 3500	22.7	23.5	27.6	29.1	31.2	31.6	32.7	34.0	34.0	34.4	34.7	34.7	34.9	34.9	35.0	35.1
GE 3000	26.6	27.7	31.9	33.4	35.6	36.2	37.4	38.7	38.7	39.1	39.4	39.4	39.5	39.5	39.7	39.8
GE 2500	29.2	30.4	34.6	36.2	38.5	39.0	40.2	41.5	41.5	41.9	42.3	42.3	42.4	42.4	42.5	42.6
GE 2000	34.2	35.6	40.7	42.6	45.4	46.0	47.3	48.9	48.9	49.5	50.1	50.1	50.2	50.2	50.3	50.4
GE 1800	35.2	36.6	42.2	44.2	47.1	47.6	48.9	50.5	50.5	51.1	51.7	51.7	51.9	51.9	52.0	52.1
GE 1500	39.4	41.1	46.8	49.2	52.3	52.8	54.2	56.0	56.3	56.9	57.7	57.7	57.8	57.8	58.0	58.1
GE 1200	42.9	44.6	51.0	53.4	56.4	57.3	58.7	60.5	60.8	61.7	62.5	62.5	62.6	62.6	62.7	62.9
GE 1000	46.1	47.9	54.8	57.3	60.7	61.5	63.0	64.8	65.4	66.7	67.5	67.8	67.9	67.9	68.0	68.1
GE 900	47.1	48.9	56.6	59.2	62.9	63.7	65.1	67.0	67.5	68.8	69.7	69.9	70.0	70.0	70.2	70.3
GE 800	47.9	49.9	57.7	60.2	64.1	64.9	66.4	68.4	69.1	70.4	71.2	71.5	71.6	71.6	71.7	71.8
GE 700	50.2	52.2	60.8	63.5	67.8	68.6	70.3	72.2	72.9	74.3	75.4	75.6	75.7	75.7	75.8	75.9
GE 600	50.8	52.7	61.7	64.8	69.3	70.2	72.1	74.3	74.9	76.4	77.6	78.1	78.2	78.2	78.3	78.4
GE 500	51.3	53.3	62.7	66.2	71.6	72.8	75.2	77.5	78.3	80.2	82.1	82.7	82.8	82.9	83.0	83.1
GE 400	52.1	54.0	63.9	67.5	73.9	75.3	78.5	80.9	82.1	84.6	86.7	87.3	87.4	87.6	87.7	87.8
GE 300	52.1	54.0	64.1	67.6	74.2	75.6	79.2	81.8	83.2	85.9	88.5	89.9	90.2	90.7	90.8	91.0
GE 200	52.1	54.0	64.1	67.6	74.4	75.8	79.6	82.7	84.4	87.3	90.0	91.6	91.9	92.9	93.9	94.2
GE 100	52.1	54.0	64.1	67.6	74.4	75.8	79.6	82.7	84.4	87.5	90.5	92.3	92.7	93.9	96.1	99.8
GE 000	52.1	54.0	64.1	67.6	74.4	75.8	79.6	82.7	84.4	87.5	90.5	92.3	92.7	93.9	96.1	100.0

TOTAL NUMBER OF OBSERVATIONS 918

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	11.4	11.8	14.5	15.5	17.2	17.7	18.4	18.8	19.0	19.6	19.9	20.0	20.1	20.3	20.5	20.7
GE 20000	12.6	13.0	15.9	16.9	18.8	19.3	20.1	20.5	20.8	21.3	21.6	21.8	21.9	22.1	22.3	22.4
GE 18000	12.6	13.1	16.0	16.9	18.8	19.3	20.1	20.6	20.8	21.3	21.6	21.8	21.9	22.1	22.3	22.4
GE 16000	12.6	13.1	16.0	16.9	18.8	19.3	20.1	20.6	20.8	21.3	21.6	21.8	21.9	22.1	22.3	22.4
GE 14000	12.7	13.1	16.0	17.0	18.9	19.4	20.1	20.6	20.8	21.4	21.7	21.9	22.0	22.2	22.3	22.5
GE 12000	12.8	13.2	16.1	17.1	19.0	19.5	20.3	20.8	21.0	21.6	21.9	22.0	22.1	22.3	22.5	22.7
GE 10000	13.4	13.8	16.9	17.9	19.8	20.4	21.2	21.7	22.0	22.5	22.8	23.0	23.1	23.3	23.5	23.6
GE 9000	13.8	14.2	17.5	18.7	20.6	21.2	22.0	22.6	22.8	23.3	23.6	23.8	23.9	24.1	24.3	24.5
GE 8000	15.0	15.5	18.9	20.1	22.4	23.0	23.9	24.5	24.7	25.3	25.6	25.8	25.9	26.1	26.3	26.4
GE 7000	15.2	15.7	19.3	20.5	22.7	23.4	24.3	24.9	25.2	25.8	26.1	26.3	26.4	26.6	26.8	26.9
GE 6000	15.3	15.8	19.4	20.7	22.9	23.6	24.5	25.2	25.4	26.0	26.3	26.5	26.6	26.8	27.0	27.1
GE 5000	15.6	16.1	19.7	21.0	23.3	24.0	24.9	25.5	25.8	26.4	26.7	26.9	27.0	27.2	27.4	27.5
GE 4500	16.3	16.8	20.6	21.8	24.2	24.9	25.8	26.5	26.7	27.4	27.7	27.9	28.0	28.2	28.4	28.6
GE 4000	17.1	17.6	21.6	22.9	25.3	26.0	27.1	27.7	28.0	28.7	29.0	29.2	29.3	29.5	29.7	29.9
GE 3500	19.1	19.7	23.9	25.2	27.6	28.4	29.5	30.1	30.4	31.1	31.4	31.6	31.8	32.0	32.1	32.3
GE 3000	22.4	23.1	27.7	29.1	31.8	32.6	33.8	34.5	34.8	35.5	35.9	36.1	36.2	36.4	36.6	36.7
GE 2500	24.1	25.0	30.0	31.5	34.2	35.0	36.3	37.1	37.5	38.2	38.6	38.8	38.9	39.1	39.3	39.4
GE 2000	28.7	29.7	35.3	37.0	39.9	40.9	42.3	43.4	43.8	44.7	45.1	45.3	45.5	45.7	45.8	46.0
GE 1800	30.0	31.1	37.0	38.8	41.8	42.8	44.3	45.5	46.0	46.9	47.3	47.5	47.7	47.9	48.0	48.2
GE 1500	34.1	35.4	42.0	43.9	47.6	48.8	50.4	51.8	52.4	53.4	53.9	54.1	54.2	54.5	54.7	54.8
GE 1200	37.5	38.9	46.0	48.1	51.9	53.2	55.0	56.5	57.1	58.3	58.8	59.1	59.2	59.4	59.6	59.8
GE 1000	40.4	41.9	49.8	52.0	56.4	57.9	59.8	61.4	62.0	63.6	64.2	64.4	64.5	64.8	65.0	65.1
GE 900	41.4	42.9	51.2	53.6	58.2	59.6	61.5	63.2	63.9	65.5	66.1	66.4	66.5	66.8	67.0	67.1
GE 800	42.4	43.9	52.5	54.9	59.6	61.1	63.2	64.9	65.7	67.4	68.2	68.5	68.6	68.9	69.1	69.2
GE 700	44.1	45.7	55.0	57.7	62.8	64.6	67.0	68.8	69.7	71.6	72.7	73.0	73.2	73.4	73.6	73.8
GE 600	44.8	46.5	56.4	59.2	64.6	66.4	69.1	71.0	72.0	73.9	75.2	75.6	75.8	76.1	76.3	76.4
GE 500	45.6	47.3	58.0	61.2	67.4	69.6	72.6	74.8	75.9	78.1	79.8	80.2	80.4	80.7	80.9	81.1
GE 400	46.1	47.8	58.9	62.1	69.1	71.4	75.0	77.4	78.9	81.4	83.4	83.8	84.1	84.5	84.7	84.8
GE 300	46.2	47.9	59.1	62.4	69.6	72.0	76.0	78.7	80.5	83.4	85.8	86.6	87.0	87.5	87.8	88.0
GE 200	46.2	47.9	59.1	62.5	69.8	72.3	76.5	79.4	81.4	84.6	87.4	88.5	89.3	90.7	91.7	92.2
GE 100	46.2	47.9	59.1	62.5	69.8	72.4	76.6	79.5	81.6	84.8	87.9	89.3	90.4	92.4	95.3	99.3
GE 000	46.2	47.9	59.1	62.5	69.8	72.4	76.6	79.5	81.6	84.8	87.9	89.3	90.4	92.4	95.3	100.0

TOTAL NUMBER OF OBSERVATIONS 7370

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	24.6	25.3	31.8	33.1	36.0	36.7	37.8	37.8	37.8	37.8	37.9	37.9	38.0	38.2	38.3	38.3
GE 20000	27.1	27.8	35.3	36.7	39.9	40.6	41.8	42.0	42.0	42.2	42.3	42.3	42.4	42.5	42.6	42.6
GE 18000	27.2	27.9	35.5	36.9	40.0	40.8	41.9	42.2	42.2	42.3	42.4	42.4	42.5	42.6	42.8	42.8
GE 16000	27.2	27.9	35.5	36.9	40.0	40.8	41.9	42.2	42.2	42.3	42.4	42.4	42.5	42.6	42.8	42.8
GE 14000	27.2	27.9	35.5	36.9	40.0	40.8	41.9	42.2	42.2	42.3	42.4	42.4	42.5	42.6	42.8	42.8
GE 12000	27.2	27.9	35.5	36.9	40.0	40.8	41.9	42.2	42.2	42.3	42.4	42.4	42.5	42.6	42.8	42.8
GE 10000	27.8	28.5	36.0	37.5	40.6	41.3	42.5	42.8	42.8	42.9	43.0	43.0	43.1	43.2	43.3	43.3
GE 9000	28.5	29.3	37.1	38.6	41.8	42.5	43.7	43.9	43.9	44.1	44.2	44.2	44.3	44.4	44.6	44.6
GE 8000	29.3	30.2	38.0	39.6	42.9	43.6	44.8	45.3	45.3	45.5	45.6	45.6	45.7	45.8	46.1	46.1
GE 7000	29.8	30.6	38.8	40.3	43.9	44.8	45.9	46.5	46.5	46.6	46.8	46.8	46.9	47.0	47.2	47.2
GE 6000	30.0	30.9	39.0	40.5	44.2	45.0	46.2	46.8	46.8	46.9	47.0	47.0	47.1	47.2	47.5	47.5
GE 5000	30.4	31.2	39.6	41.1	44.8	45.6	46.8	47.3	47.3	47.5	47.6	47.6	47.7	47.8	48.1	48.1
GE 4500	31.1	32.0	40.4	41.9	45.7	46.5	47.9	48.5	48.5	48.6	48.8	48.8	48.9	49.0	49.2	49.2
GE 4000	32.4	33.5	41.9	43.5	47.3	48.2	49.6	50.2	50.2	50.3	50.4	50.4	50.5	50.6	50.9	50.9
GE 3500	33.7	34.7	43.9	45.5	49.7	50.5	52.1	52.7	52.7	52.8	52.9	52.9	53.0	53.1	53.4	53.4
GE 3000	35.9	37.0	46.6	48.3	52.5	53.6	55.6	56.4	56.4	56.5	56.7	56.7	56.8	56.9	57.1	57.1
GE 2500	37.0	38.2	48.2	49.8	54.2	55.2	57.8	58.8	58.8	58.9	59.0	59.0	59.1	59.2	59.5	59.5
GE 2000	39.7	41.0	52.7	54.3	58.9	60.0	62.5	63.6	63.6	63.7	63.8	63.8	64.0	64.1	64.3	64.3
GE 1800	41.0	42.5	54.3	55.9	60.8	61.8	64.4	66.0	66.0	66.1	66.2	66.2	66.3	66.4	66.7	66.7
GE 1500	43.0	44.6	57.0	58.8	63.7	64.8	67.5	69.0	69.3	69.4	69.5	69.5	69.6	69.7	70.0	70.0
GE 1200	44.3	45.9	59.5	61.5	66.8	68.2	70.9	72.8	73.1	73.5	73.6	73.6	73.7	73.9	74.1	74.1
GE 1000	45.6	47.2	61.4	63.5	69.6	71.0	74.0	76.0	76.8	77.3	77.5	77.5	77.6	77.7	78.0	78.0
GE 900	46.8	48.5	62.8	65.0	71.3	72.8	75.7	77.9	78.8	79.3	79.5	79.5	79.6	79.7	80.0	80.0
GE 800	47.5	49.2	63.8	66.2	73.0	74.6	77.5	79.6	80.6	81.0	81.4	81.4	81.5	81.6	81.9	81.9
GE 700	48.6	50.4	65.3	67.7	74.8	76.3	79.3	81.6	82.8	83.3	83.6	83.6	83.7	83.9	84.1	84.1
GE 600	48.8	50.5	66.2	68.7	75.9	77.4	80.3	83.0	84.2	84.7	85.4	85.4	85.5	85.6	85.9	85.9
GE 500	49.1	50.9	67.0	69.6	77.3	78.9	82.6	85.4	86.6	87.0	87.9	87.9	88.0	88.1	88.3	88.3
GE 400	49.4	51.1	67.4	70.1	78.1	79.7	84.0	87.0	88.5	89.2	90.3	90.3	90.5	90.8	91.0	91.0
GE 300	49.5	51.2	67.6	70.4	78.6	80.2	84.6	87.6	89.2	89.9	91.3	91.5	91.8	92.1	92.3	92.3
GE 200	49.5	51.2	67.7	70.7	78.8	80.4	84.9	88.5	90.0	90.8	92.7	93.2	93.6	94.3	94.9	95.3
GE 100	49.5	51.2	67.7	70.7	78.8	80.4	85.0	88.8	90.3	91.3	93.2	93.9	94.5	95.2	96.1	99.6
GE 000	49.5	51.2	67.7	70.7	78.8	80.4	85.0	88.8	90.3	91.3	93.2	93.9	94.5	95.2	96.1	100.0

TOTAL NUMBER OF OBSERVATIONS 849

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	17.7	18.3	26.3	27.6	30.9	31.0	33.0	33.6	33.6	33.6	33.6	33.6	33.6	33.7	33.8	34.2
GE 20000	19.9	20.5	30.2	31.6	34.9	35.1	37.1	37.9	37.9	38.0	38.0	38.0	38.0	38.2	38.3	38.8
GE 18000	20.1	20.7	30.4	31.8	35.1	35.3	37.3	38.2	38.2	38.3	38.3	38.3	38.3	38.4	38.5	39.0
GE 16000	20.1	20.7	30.4	31.8	35.1	35.3	37.3	38.2	38.2	38.3	38.3	38.3	38.3	38.4	38.5	39.0
GE 14000	20.1	20.7	30.4	31.8	35.1	35.3	37.3	38.2	38.2	38.3	38.3	38.3	38.3	38.4	38.5	39.0
GE 12000	20.3	20.8	30.5	31.9	35.2	35.5	37.5	38.3	38.3	38.4	38.4	38.4	38.4	38.5	38.6	39.1
GE 10000	21.6	22.3	32.0	33.5	36.7	37.0	39.1	39.9	39.9	40.2	40.2	40.2	40.2	40.3	40.4	40.9
GE 9000	21.7	22.4	32.4	33.8	37.1	37.3	39.5	40.3	40.3	40.5	40.5	40.5	40.5	40.6	40.8	41.2
GE 8000	22.5	23.2	33.2	34.6	37.9	38.2	40.3	41.1	41.1	41.7	41.7	41.7	41.7	41.8	41.9	42.4
GE 7000	22.9	23.6	33.6	35.0	38.6	38.9	41.0	41.8	41.8	42.4	42.4	42.4	42.4	42.5	42.6	43.1
GE 6000	23.0	23.7	33.7	35.1	38.8	39.0	41.1	41.9	41.9	42.5	42.5	42.5	42.5	42.6	42.8	43.2
GE 5000	23.3	24.0	34.0	35.5	39.1	39.3	41.5	42.3	42.3	42.9	42.9	42.9	42.9	43.0	43.1	43.6
GE 4500	23.7	24.4	34.4	35.8	39.5	39.7	41.8	42.6	42.6	43.2	43.2	43.2	43.2	43.3	43.5	43.9
GE 4000	25.7	26.5	36.9	38.3	41.9	42.2	44.3	45.1	45.1	45.7	45.7	45.7	45.7	45.8	45.9	46.4
GE 3500	27.8	28.6	39.5	40.9	44.8	45.0	47.6	48.4	48.4	49.0	49.0	49.0	49.0	49.1	49.2	49.7
GE 3000	29.6	30.5	41.6	43.2	47.2	47.5	50.3	51.2	51.5	52.2	52.2	52.2	52.2	52.3	52.4	52.9
GE 2500	30.2	31.1	42.6	44.3	48.6	48.9	51.8	52.8	53.0	53.7	53.8	53.8	53.8	53.9	54.1	54.5
GE 2000	34.2	35.2	48.4	50.2	54.9	55.1	58.2	59.1	59.4	60.1	60.2	60.2	60.2	60.3	60.4	60.9
GE 1800	35.8	36.9	50.2	51.9	56.7	57.0	60.1	61.4	61.7	62.4	62.5	62.5	62.5	62.7	62.8	63.3
GE 1500	38.5	39.6	54.4	56.2	61.5	62.0	65.0	66.8	67.5	68.2	68.4	68.4	68.4	68.6	68.7	69.1
GE 1200	41.2	42.4	58.1	59.8	65.1	65.6	68.7	70.8	71.7	72.4	72.7	72.7	72.7	72.8	72.9	73.4
GE 1000	43.2	44.4	61.1	63.3	69.4	70.0	73.1	75.6	76.7	77.5	77.7	77.7	77.7	77.9	78.0	78.4
GE 900	44.4	45.6	62.4	64.5	70.9	71.5	74.7	77.3	78.3	79.2	79.4	79.4	79.4	79.5	79.6	80.2
GE 800	44.6	45.8	62.7	65.0	71.7	72.6	75.7	78.3	79.4	80.6	80.9	80.9	80.9	81.0	81.2	81.7
GE 700	45.0	46.3	63.1	65.6	72.6	73.5	76.7	79.3	80.4	81.6	82.1	82.1	82.1	82.2	82.3	82.9
GE 600	45.7	47.0	64.2	66.7	73.6	74.6	78.0	80.7	81.9	83.0	83.5	83.5	83.5	83.6	83.7	84.3
GE 500	46.3	47.6	65.1	67.7	75.4	76.3	80.2	83.3	84.6	85.9	86.5	86.6	86.6	86.7	86.8	87.4
GE 400	46.4	47.7	65.4	68.1	76.3	77.3	81.5	84.7	86.3	87.8	88.5	88.6	88.7	88.8	88.9	89.5
GE 300	46.6	47.9	65.8	68.6	77.1	78.2	82.6	85.9	87.8	89.4	90.6	90.7	91.0	91.3	91.4	92.0
GE 200	46.6	47.9	65.8	68.6	77.1	78.2	82.6	86.1	88.2	89.9	91.4	91.8	92.2	92.5	93.3	94.1
GE 100	46.6	47.9	65.8	68.6	77.3	78.3	82.7	86.2	88.5	90.5	92.1	92.5	92.9	93.3	94.2	99.6
GE 000	46.6	47.9	65.8	68.6	77.3	78.3	82.7	86.2	88.5	90.5	92.1	92.5	92.9	93.3	94.2	100.0

TOTAL NUMBER OF OBSERVATIONS 849

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	15.4	15.7	21.8	23.1	26.1	27.3	28.7	30.7	31.2	31.2	31.9	32.0	32.0	32.0	32.6	32.6
GE 20000	16.1	16.4	23.1	24.6	27.9	29.3	31.0	33.0	33.8	33.8	34.5	34.6	34.6	34.6	35.2	35.3
GE 18000	16.4	16.6	23.3	24.9	28.3	29.7	31.3	33.3	34.2	34.2	34.9	35.0	35.0	35.0	35.6	35.7
GE 16000	16.4	16.6	23.3	24.9	28.3	29.7	31.3	33.3	34.2	34.2	34.9	35.0	35.0	35.0	35.6	35.7
GE 14000	16.4	16.6	23.3	24.9	28.3	29.7	31.3	33.3	34.2	34.2	34.9	35.0	35.0	35.0	35.6	35.7
GE 12000	16.6	16.8	23.6	25.1	28.5	29.9	31.6	33.6	34.4	34.4	35.1	35.2	35.2	35.2	35.8	35.9
GE 10000	17.8	18.1	25.3	26.9	30.4	31.9	33.6	35.6	36.4	36.4	37.1	37.2	37.2	37.2	37.8	37.9
GE 9000	18.4	18.8	26.0	27.6	31.1	32.6	34.3	36.3	37.1	37.1	37.8	37.9	37.9	37.9	38.5	38.6
GE 8000	19.1	19.6	27.3	28.9	32.5	34.0	35.8	37.9	38.8	38.8	39.5	39.6	39.6	39.6	40.2	40.3
GE 7000	19.3	19.8	27.7	29.2	33.2	34.7	36.5	38.6	39.5	39.5	40.2	40.3	40.3	40.3	40.9	41.0
GE 6000	19.3	19.8	27.8	29.3	33.3	34.9	36.6	38.8	39.6	39.6	40.3	40.4	40.4	40.4	41.0	41.1
GE 5000	20.0	20.5	28.5	30.0	34.0	35.6	37.5	39.6	40.4	40.4	41.1	41.2	41.2	41.2	41.8	41.9
GE 4500	20.3	20.7	28.7	30.4	34.4	35.9	37.8	39.9	40.8	40.8	41.5	41.6	41.6	41.6	42.2	42.3
GE 4000	21.0	21.4	30.2	31.8	35.8	37.5	39.3	41.5	42.3	42.3	43.0	43.1	43.1	43.1	43.7	43.8
GE 3500	23.7	24.1	33.5	35.2	39.9	41.6	43.5	45.6	46.4	46.4	47.1	47.2	47.2	47.2	47.8	47.9
GE 3000	25.7	26.3	35.9	37.8	42.6	44.5	46.4	48.6	49.5	49.5	50.3	50.4	50.4	50.4	51.0	51.1
GE 2500	26.7	27.3	37.1	39.0	43.8	45.7	47.8	50.1	51.0	51.1	51.9	52.1	52.1	52.1	52.7	52.8
GE 2000	31.3	32.2	42.6	44.9	50.1	52.3	54.7	56.9	57.8	58.3	59.1	59.2	59.2	59.2	59.8	60.0
GE 1800	32.7	33.6	44.2	46.5	51.9	54.3	56.7	58.9	59.8	60.3	61.1	61.2	61.2	61.2	61.8	62.0
GE 1500	36.0	36.9	48.5	51.0	56.7	59.4	61.8	64.4	65.7	66.4	67.3	67.4	67.4	67.4	68.0	68.1
GE 1200	37.9	38.8	51.6	54.3	60.3	63.5	66.3	69.3	70.6	71.4	72.4	72.6	72.6	72.6	73.1	73.3
GE 1000	39.7	40.5	53.6	56.3	63.0	66.2	69.3	72.3	74.1	75.3	76.4	76.6	76.6	76.6	77.1	77.3
GE 900	40.3	41.1	54.3	57.2	64.0	67.1	70.2	73.3	75.0	76.2	77.4	77.6	77.6	77.6	78.2	78.3
GE 800	40.9	41.8	55.2	58.5	65.7	68.9	72.1	75.1	76.9	78.1	79.3	79.5	79.5	79.5	80.1	80.2
GE 700	41.1	42.0	55.7	59.0	66.2	69.5	73.0	76.1	78.2	79.4	80.6	80.8	80.8	80.8	81.4	81.5
GE 600	41.7	42.6	56.3	59.6	66.9	70.2	73.7	76.9	79.2	80.3	81.7	82.0	82.0	82.0	82.6	82.7
GE 500	42.4	43.5	57.7	61.1	69.6	73.3	77.3	80.4	83.0	84.5	86.0	86.2	86.5	86.5	87.0	87.2
GE 400	42.8	43.8	58.4	61.8	70.4	74.2	78.3	81.6	84.3	85.9	87.5	87.9	88.2	88.2	88.8	88.9
GE 300	43.0	44.1	58.7	62.1	70.7	74.4	78.7	82.0	84.8	86.7	88.7	89.2	89.5	89.8	90.3	90.5
GE 200	43.0	44.1	58.7	62.1	70.9	74.7	78.9	82.2	85.2	87.2	89.4	90.2	90.8	91.2	92.1	92.9
GE 100	43.0	44.1	58.7	62.1	70.9	74.7	78.9	82.2	85.3	87.3	89.6	90.6	91.4	92.2	94.1	99.5
GE 000	43.0	44.1	58.7	62.1	70.9	74.7	78.9	82.2	85.3	87.3	89.6	90.6	91.5	92.3	94.2	100.0

TOTAL NUMBER OF OBSERVATIONS 849

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	13.9	14.1	22.0	23.0	25.6	28.6	29.9	31.8	33.1	34.0	34.3	34.4	34.5	34.5	34.5	34.9
GE 20000	14.8	15.1	23.4	24.9	27.8	31.0	32.4	34.3	35.7	36.6	36.9	37.0	37.1	37.1	37.1	37.5
GE 18000	14.8	15.1	23.4	24.9	27.8	31.0	32.4	34.3	35.7	36.6	36.9	37.0	37.1	37.1	37.1	37.5
GE 16000	14.8	15.1	23.4	24.9	27.8	31.0	32.4	34.3	35.7	36.6	36.9	37.0	37.1	37.1	37.1	37.5
GE 14000	14.8	15.1	23.4	24.9	27.8	31.0	32.4	34.3	35.7	36.6	36.9	37.0	37.1	37.1	37.1	37.5
GE 12000	14.8	15.1	23.8	25.2	28.2	31.3	32.7	34.6	36.0	37.0	37.2	37.3	37.5	37.5	37.5	37.8
GE 10000	15.4	15.7	24.5	26.0	29.1	32.3	33.8	35.7	37.2	38.2	38.4	38.5	38.6	38.6	38.6	39.0
GE 9000	16.1	16.4	25.4	27.2	30.3	33.5	35.0	37.0	38.5	39.6	39.8	39.9	40.0	40.0	40.0	40.4
GE 8000	16.4	16.6	26.3	28.2	31.6	34.9	36.5	38.6	40.2	41.2	41.5	41.6	41.7	41.7	41.7	42.0
GE 7000	16.8	17.1	26.9	28.7	32.5	35.8	37.5	39.6	41.1	42.2	42.4	42.5	42.6	42.6	42.6	43.0
GE 6000	16.8	17.1	27.6	29.4	33.2	36.5	38.2	40.3	41.8	42.9	43.1	43.2	43.3	43.3	43.3	43.7
GE 5000	17.0	17.2	27.7	29.6	33.6	36.9	38.5	40.6	42.2	43.2	43.5	43.6	43.7	43.7	43.7	44.1
GE 4500	17.2	17.4	28.3	30.4	34.4	37.7	39.5	41.7	43.2	44.3	44.5	44.6	44.8	44.8	44.8	45.1
GE 4000	17.9	18.1	29.4	31.8	35.8	39.2	41.0	43.2	44.8	45.8	46.1	46.2	46.3	46.3	46.3	46.6
GE 3500	19.8	20.0	31.4	34.0	38.0	41.5	43.2	45.5	47.0	48.1	48.3	48.4	48.5	48.5	48.5	48.9
GE 3000	22.6	23.0	34.6	37.2	41.5	44.9	46.6	48.9	50.4	51.5	51.7	51.8	51.9	51.9	51.9	52.3
GE 2500	23.6	23.9	36.0	38.6	43.0	46.6	48.6	51.0	52.5	53.7	53.9	54.1	54.2	54.2	54.2	54.5
GE 2000	28.0	28.6	41.1	44.3	48.8	52.5	54.8	57.1	58.7	60.0	60.3	60.4	60.5	60.5	60.5	60.9
GE 1800	29.4	30.0	42.9	46.3	50.8	54.5	56.8	59.2	60.8	62.1	62.4	62.5	62.7	62.7	62.7	63.0
GE 1500	31.7	32.5	45.8	49.4	54.3	58.2	60.4	63.4	65.0	66.7	67.1	67.3	67.4	67.4	67.4	67.7
GE 1200	32.6	33.5	47.1	50.6	56.1	60.1	62.9	66.3	68.1	70.0	70.7	70.8	71.0	71.0	71.0	71.4
GE 1000	33.7	34.7	48.6	52.4	58.0	62.7	66.0	69.6	71.5	74.0	75.0	75.1	75.4	75.4	75.4	75.7
GE 900	34.0	35.1	49.6	53.5	59.1	64.1	67.4	71.1	73.1	75.7	76.8	77.0	77.3	77.3	77.3	77.6
GE 800	34.3	35.3	49.9	53.8	59.5	64.7	68.1	72.0	74.0	76.8	77.9	78.1	78.3	78.3	78.3	78.7
GE 700	35.0	36.0	51.1	55.0	60.7	65.8	69.3	73.1	75.5	78.4	79.7	80.0	80.2	80.2	80.2	80.6
GE 600	35.3	36.4	51.9	55.8	62.0	67.4	71.1	75.3	77.9	80.9	82.6	82.8	83.0	83.0	83.0	83.4
GE 500	35.8	36.9	53.1	57.2	64.3	69.8	74.3	78.8	81.7	85.0	86.8	87.0	87.3	87.3	87.3	87.6
GE 400	35.9	37.0	53.4	57.6	65.1	70.8	75.4	80.0	83.2	86.7	88.5	88.7	88.9	88.9	88.9	89.3
GE 300	35.9	37.0	53.5	57.7	65.3	70.9	75.5	80.4	83.6	87.3	89.4	89.8	90.1	90.1	90.2	90.7
GE 200	35.9	37.0	53.5	57.7	65.3	70.9	75.5	80.8	84.0	87.9	90.5	90.9	92.2	92.6	93.1	94.2
GE 100	35.9	37.0	53.5	57.7	65.3	70.9	75.5	80.8	84.0	87.9	90.5	90.9	92.2	93.1	94.3	99.6
GE 000	35.9	37.0	53.5	57.7	65.3	70.9	75.5	80.8	84.0	87.9	90.5	90.9	92.2	93.1	94.3	100.0

TOTAL NUMBER OF OBSERVATIONS 849

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	19.2	19.4	24.9	26.7	29.4	31.6	32.9	33.8	34.2	34.5	34.5	34.6	34.6	34.6	34.6	34.6
GE 20000	20.7	21.0	27.3	29.8	32.7	35.0	36.3	37.6	37.9	38.3	38.3	38.4	38.4	38.4	38.4	38.4
GE 18000	20.7	21.0	27.3	29.8	32.7	35.0	36.3	37.6	37.9	38.3	38.3	38.4	38.4	38.4	38.4	38.4
GE 16000	20.7	21.0	27.3	29.8	32.7	35.0	36.3	37.6	37.9	38.3	38.3	38.4	38.4	38.4	38.4	38.4
GE 14000	20.7	21.0	27.3	29.8	32.7	35.0	36.3	37.6	37.9	38.3	38.3	38.4	38.4	38.4	38.4	38.4
GE 12000	20.7	21.0	27.3	29.8	32.7	35.0	36.3	37.6	37.9	38.3	38.3	38.4	38.4	38.4	38.4	38.4
GE 10000	21.8	22.0	28.5	31.0	33.9	36.2	37.5	38.8	39.1	39.5	39.5	39.6	39.6	39.6	39.6	39.6
GE 9000	21.9	22.4	29.1	31.6	34.5	36.7	38.0	39.3	39.7	40.0	40.0	40.2	40.2	40.2	40.2	40.2
GE 8000	22.5	23.0	30.0	32.5	35.5	37.7	39.0	40.3	40.8	41.2	41.2	41.3	41.3	41.3	41.3	41.3
GE 7000	22.7	23.2	30.6	33.3	36.6	38.9	40.2	41.5	41.9	42.4	42.4	42.5	42.5	42.5	42.5	42.5
GE 6000	22.7	23.2	30.7	33.5	36.7	39.0	40.3	41.6	42.0	42.5	42.5	42.6	42.6	42.6	42.6	42.6
GE 5000	22.9	23.3	31.0	33.7	37.0	39.2	40.9	42.2	42.6	43.1	43.2	43.3	43.3	43.3	43.3	43.3
GE 4500	23.6	24.0	31.8	34.5	37.9	40.2	41.8	43.1	43.6	44.1	44.2	44.3	44.3	44.3	44.3	44.3
GE 4000	24.4	25.0	34.2	37.0	40.8	43.0	45.0	46.3	46.8	47.2	47.3	47.5	47.5	47.5	47.5	47.5
GE 3500	26.0	26.6	36.2	39.1	42.9	45.2	47.2	48.5	49.0	49.5	49.6	49.7	49.7	49.7	49.7	49.7
GE 3000	29.6	30.3	40.5	43.8	48.1	50.5	52.7	53.9	54.4	54.9	55.0	55.1	55.1	55.1	55.1	55.1
GE 2500	32.2	33.0	43.7	47.1	51.6	54.1	56.4	57.7	58.2	58.7	58.8	58.9	58.9	58.9	58.9	58.9
GE 2000	35.7	36.6	47.9	51.5	56.5	59.1	61.7	63.0	63.5	64.0	64.1	64.2	64.2	64.2	64.2	64.2
GE 1800	37.2	38.3	50.2	53.7	58.8	61.5	64.1	65.5	66.0	66.5	66.7	66.8	66.8	66.8	66.8	66.8
GE 1500	40.8	41.9	54.3	58.0	63.4	66.4	69.3	70.8	71.3	71.8	72.0	72.1	72.1	72.1	72.1	72.1
GE 1200	42.5	43.7	56.1	59.8	66.0	69.3	72.4	74.1	74.6	75.1	75.3	75.4	75.4	75.4	75.4	75.4
GE 1000	44.9	46.1	58.8	62.9	69.3	72.8	76.1	77.9	78.3	79.0	79.5	79.6	79.6	79.6	79.6	79.6
GE 900	45.2	46.4	59.5	63.6	70.0	73.7	77.0	78.8	79.3	80.1	80.7	80.8	80.8	80.8	80.8	80.8
GE 800	46.1	47.3	60.5	64.8	71.1	74.9	78.2	80.1	80.6	81.4	82.0	82.1	82.1	82.1	82.1	82.1
GE 700	46.3	47.6	61.2	65.5	72.1	76.0	79.3	81.4	82.1	82.9	83.6	83.7	83.7	83.7	83.7	83.7
GE 600	46.6	47.9	62.0	66.4	73.1	77.1	80.7	82.9	83.6	84.6	85.4	85.5	85.5	85.5	85.5	85.5
GE 500	47.0	48.3	63.4	68.1	75.3	79.3	83.2	85.9	86.8	87.8	88.6	88.8	88.9	88.9	88.9	88.9
GE 400	47.0	48.3	63.5	68.4	76.3	80.6	84.5	87.5	88.5	89.5	90.5	90.7	90.9	90.9	90.9	90.9
GE 300	47.0	48.3	63.6	68.6	76.4	80.7	84.7	88.1	89.3	90.8	92.1	92.3	92.6	92.7	93.1	93.4
GE 200	47.0	48.3	63.6	68.6	76.4	80.7	84.7	88.1	89.6	91.2	92.8	93.4	93.9	94.1	94.6	95.3
GE 100	47.0	48.3	63.6	68.6	76.4	80.7	84.7	88.1	89.6	91.3	93.1	93.6	94.1	94.8	95.6	99.6
GE 000	47.0	48.3	63.6	68.6	76.4	80.7	84.7	88.1	89.6	91.3	93.1	93.6	94.1	94.8	95.6	100.0

TOTAL NUMBER OF OBSERVATIONS 849

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	21.1	21.7	27.1	27.7	30.3	31.3	32.3	32.4	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7
GE 20000	23.7	24.4	31.6	32.7	35.6	37.0	38.3	38.4	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 18000	23.7	24.4	31.6	32.7	35.6	37.0	38.3	38.4	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 16000	23.7	24.4	31.6	32.7	35.6	37.0	38.3	38.4	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 14000	23.8	24.5	31.7	32.9	35.7	37.1	38.4	38.5	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 12000	23.8	24.5	31.7	32.9	35.7	37.1	38.4	38.5	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 10000	24.9	25.6	33.3	34.5	37.3	38.8	40.0	40.2	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
GE 9000	25.4	26.1	33.9	35.1	38.2	39.6	41.0	41.1	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 8000	27.1	27.9	36.2	37.5	40.5	41.9	43.5	43.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 7000	27.4	28.3	36.6	38.2	41.3	42.8	44.3	44.4	44.8	44.9	45.0	45.0	45.0	45.0	45.0	45.0
GE 6000	27.4	28.3	37.0	38.5	41.7	43.1	44.6	44.8	45.1	45.2	45.3	45.3	45.3	45.3	45.3	45.3
GE 5000	27.4	28.3	37.1	38.6	41.8	43.2	45.0	45.1	45.5	45.6	45.7	45.7	45.7	45.7	45.7	45.7
GE 4500	28.2	29.0	37.9	39.5	42.6	44.1	45.8	45.9	46.3	46.4	46.5	46.5	46.5	46.5	46.5	46.5
GE 4000	29.4	30.3	39.7	41.2	44.4	45.8	47.6	47.7	48.1	48.2	48.4	48.4	48.4	48.4	48.4	48.4
GE 3500	31.6	32.4	41.9	43.7	46.9	48.3	50.1	50.2	50.5	50.6	50.9	50.9	50.9	50.9	50.9	50.9
GE 3000	36.3	37.2	47.8	49.6	52.8	54.3	56.1	56.2	56.5	56.7	57.1	57.1	57.1	57.1	57.1	57.1
GE 2500	39.1	40.0	51.4	53.2	56.5	58.1	59.8	60.0	60.3	60.4	60.9	60.9	60.9	60.9	60.9	60.9
GE 2000	42.8	43.7	56.5	58.4	62.5	64.1	66.1	66.2	66.5	66.9	67.4	67.4	67.4	67.4	67.4	67.4
GE 1800	44.4	45.3	59.1	61.1	65.5	67.3	69.3	69.5	69.8	70.2	70.7	70.7	70.7	70.7	70.7	70.7
GE 1500	47.5	48.4	62.9	65.0	70.0	72.0	74.3	74.8	75.1	75.6	76.2	76.2	76.2	76.2	76.2	76.2
GE 1200	50.5	51.5	66.5	69.0	74.4	76.8	79.2	79.6	80.0	80.4	81.0	81.0	81.0	81.0	81.0	81.0
GE 1000	52.4	53.4	69.0	71.6	77.4	79.9	82.2	82.8	83.3	83.9	84.5	84.5	84.5	84.5	84.5	84.5
GE 900	52.7	53.7	69.7	72.3	78.1	80.7	83.0	83.6	84.1	84.7	85.3	85.3	85.3	85.3	85.3	85.3
GE 800	53.2	54.3	70.9	73.5	79.4	82.0	84.5	85.4	86.0	86.7	87.3	87.4	87.4	87.4	87.4	87.4
GE 700	53.6	54.7	71.5	74.1	80.1	82.9	85.5	86.5	87.0	87.9	88.5	88.6	88.6	88.6	88.6	88.6
GE 600	53.6	54.7	71.6	74.8	80.9	83.7	86.3	87.5	88.1	88.9	89.5	89.6	89.6	89.6	89.6	89.6
GE 500	54.2	55.2	72.3	75.6	82.0	84.9	87.6	89.0	90.5	91.3	91.9	92.0	92.0	92.1	92.1	92.1
GE 400	54.3	55.4	72.6	75.9	82.7	85.6	88.3	90.1	91.6	92.6	93.2	93.4	93.4	93.5	93.5	93.5
GE 300	54.3	55.4	72.6	75.9	82.7	85.7	88.5	90.2	92.1	93.3	93.9	94.1	94.1	94.2	94.3	94.3
GE 200	54.3	55.4	72.6	75.9	82.7	85.7	88.5	90.2	92.1	93.8	94.7	95.1	95.1	95.4	96.0	96.0
GE 100	54.3	55.4	72.6	75.9	82.7	85.7	88.5	90.2	92.1	93.8	94.7	95.1	95.2	96.0	97.3	99.9
GE 000	54.3	55.4	72.6	75.9	82.7	85.7	88.5	90.2	92.1	93.8	94.7	95.1	95.2	96.0	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 849

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	24.0	24.7	30.5	31.4	32.6	33.6	33.9	34.6	34.7	35.1	35.1	35.1	35.1	35.1	35.1	35.1
GE 20000	27.8	28.5	35.3	36.4	38.3	39.5	39.9	40.9	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 18000	27.8	28.5	35.3	36.4	38.3	39.5	39.9	40.9	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 16000	27.8	28.5	35.3	36.4	38.3	39.5	39.9	40.9	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 14000	27.8	28.5	35.3	36.4	38.3	39.5	39.9	40.9	41.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 12000	27.8	28.6	35.5	36.5	38.5	39.7	40.2	41.1	41.2	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 10000	28.5	29.3	36.5	37.7	39.8	41.0	41.5	42.4	42.5	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 9000	28.9	29.7	36.9	38.2	40.3	41.5	41.9	42.9	43.0	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 8000	30.7	31.7	38.9	40.2	42.3	43.8	44.3	45.2	45.3	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 7000	31.3	32.3	39.6	40.9	43.0	44.5	45.0	45.9	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 6000	31.4	32.4	39.7	41.0	43.2	44.8	45.2	46.2	46.3	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 5000	31.7	32.6	40.4	41.7	44.1	45.6	46.4	47.3	47.5	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 4500	32.0	33.0	40.8	42.2	44.6	46.2	47.1	48.1	48.2	48.5	48.5	48.5	48.5	48.5	48.5	48.5
GE 4000	33.6	34.5	42.3	43.7	46.3	47.9	48.9	49.8	49.9	50.3	50.3	50.3	50.3	50.3	50.3	50.3
GE 3500	36.3	37.3	45.2	46.6	49.2	50.9	51.8	53.0	53.1	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 3000	39.6	40.8	49.2	50.6	53.7	55.5	56.4	57.6	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1
GE 2500	40.8	41.9	51.4	52.9	56.1	57.8	58.9	60.2	60.3	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 2000	44.4	45.7	56.4	58.5	62.4	64.5	65.6	66.9	67.0	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 1800	45.8	47.1	58.7	61.1	65.0	67.4	68.6	69.8	70.0	70.4	70.4	70.4	70.4	70.4	70.4	70.4
GE 1500	48.1	49.4	62.2	65.1	69.8	72.4	74.0	75.4	75.6	76.3	76.3	76.3	76.3	76.3	76.3	76.3
GE 1200	49.2	50.6	64.1	67.5	72.6	75.4	76.9	78.6	78.8	79.7	79.9	79.9	79.9	79.9	79.9	79.9
GE 1000	51.0	52.4	66.5	70.0	75.1	78.0	79.5	81.2	81.6	82.9	83.0	83.0	83.0	83.0	83.0	83.0
GE 900	51.6	53.0	67.1	70.6	76.1	78.9	80.4	82.2	82.8	84.1	84.2	84.2	84.2	84.2	84.2	84.2
GE 800	51.8	53.2	67.4	70.8	76.4	79.6	81.2	83.6	84.5	85.7	85.9	85.9	85.9	85.9	85.9	85.9
GE 700	52.5	53.9	68.4	71.8	77.5	80.9	82.6	85.0	85.9	87.2	87.4	87.5	87.5	87.5	87.5	87.5
GE 600	52.8	54.2	68.9	72.7	78.6	82.1	83.7	86.6	87.5	88.8	89.0	89.2	89.2	89.2	89.2	89.2
GE 500	53.1	54.5	69.6	73.4	79.4	83.2	84.8	87.8	89.0	90.8	91.3	91.5	91.5	91.5	91.5	91.5
GE 400	53.1	54.5	69.6	73.5	80.1	83.9	85.6	88.8	90.3	92.2	92.7	93.3	93.3	93.3	93.3	93.3
GE 300	53.1	54.5	69.6	73.5	80.3	84.1	86.5	89.9	91.5	93.6	94.1	94.7	94.7	94.8	94.8	94.8
GE 200	53.1	54.5	69.6	73.5	80.3	84.1	86.5	90.1	91.8	94.1	94.8	95.5	95.6	96.1	96.5	96.5
GE 100	53.1	54.5	69.6	73.5	80.3	84.1	86.5	90.1	91.8	94.1	95.1	95.8	95.9	96.5	97.4	99.3
GE 000	53.1	54.5	69.6	73.5	80.3	84.1	86.5	90.1	91.8	94.1	95.1	95.8	95.9	96.5	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS 849

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	27.4	28.0	33.2	34.5	36.5	37.2	37.9	38.3	38.3	38.3	38.8	38.8	38.9	38.9	38.9	39.0
GE 20000	31.2	31.8	37.8	39.2	41.8	42.6	43.5	43.9	43.9	43.9	44.4	44.4	44.5	44.5	44.5	44.6
GE 18000	31.2	31.8	37.8	39.2	41.8	42.6	43.5	43.9	43.9	43.9	44.4	44.4	44.5	44.5	44.5	44.6
GE 16000	31.2	31.8	37.8	39.2	41.8	42.6	43.5	43.9	43.9	43.9	44.4	44.4	44.5	44.5	44.5	44.6
GE 14000	31.2	31.8	37.8	39.2	41.8	42.6	43.5	43.9	43.9	43.9	44.4	44.4	44.5	44.5	44.5	44.6
GE 12000	31.6	32.2	38.2	39.6	42.2	43.0	43.8	44.3	44.3	44.3	44.8	44.8	44.9	44.9	44.9	45.0
GE 10000	32.0	32.6	38.6	40.0	42.6	43.5	44.3	44.8	44.8	44.8	45.2	45.2	45.3	45.3	45.3	45.5
GE 9000	32.2	32.7	38.8	40.2	42.8	43.6	44.4	44.9	44.9	44.9	45.3	45.3	45.5	45.5	45.5	45.6
GE 8000	33.9	34.5	40.5	41.9	44.5	45.5	46.4	46.9	46.9	46.9	47.3	47.3	47.5	47.5	47.5	47.6
GE 7000	34.0	34.6	40.8	42.2	44.8	45.7	46.6	47.1	47.1	47.1	47.6	47.6	47.7	47.7	47.7	47.8
GE 6000	34.2	34.7	40.9	42.3	44.9	45.8	46.8	47.2	47.2	47.2	47.7	47.7	47.8	47.8	47.8	47.9
GE 5000	34.2	34.7	40.9	42.3	44.9	46.1	47.0	47.5	47.5	47.5	47.9	47.9	48.1	48.1	48.1	48.2
GE 4500	34.9	35.6	41.9	43.3	45.9	47.1	48.1	48.5	48.5	48.5	49.0	49.0	49.1	49.1	49.1	49.2
GE 4000	36.7	37.5	43.9	45.3	48.1	49.2	50.2	50.6	50.6	50.6	51.1	51.1	51.2	51.2	51.2	51.4
GE 3500	38.3	39.0	45.9	47.5	50.2	51.5	52.4	53.0	53.0	53.0	53.5	53.5	53.6	53.6	53.6	53.7
GE 3000	41.1	41.8	49.2	50.8	53.8	55.4	56.3	56.9	56.9	56.9	57.4	57.4	57.5	57.5	57.5	57.6
GE 2500	42.8	43.6	51.8	53.7	56.8	58.3	59.5	60.1	60.1	60.1	60.5	60.5	60.7	60.7	60.7	60.8
GE 2000	46.1	47.0	55.8	58.0	61.0	62.8	64.1	64.7	64.7	64.7	65.1	65.1	65.3	65.3	65.3	65.4
GE 1800	47.1	48.1	57.4	59.7	62.9	64.8	66.1	66.7	66.7	66.7	67.1	67.1	67.3	67.3	67.3	67.4
GE 1500	49.1	50.1	59.8	62.3	65.7	67.6	69.4	70.2	70.3	70.3	70.9	70.9	71.0	71.0	71.0	71.1
GE 1200	50.8	51.7	63.1	65.6	69.5	71.6	73.6	74.7	74.9	75.3	75.9	76.0	76.1	76.1	76.1	76.2
GE 1000	52.4	53.5	65.4	68.1	72.3	74.4	76.6	77.6	78.0	78.6	79.2	79.3	79.4	79.4	79.4	79.5
GE 900	53.7	54.8	66.7	69.4	73.7	76.0	78.4	80.1	80.4	81.0	81.6	81.7	81.9	81.9	81.9	82.0
GE 800	53.9	55.0	67.1	70.0	74.8	77.4	79.9	81.5	82.1	82.7	83.4	83.5	83.6	83.6	83.6	83.7
GE 700	54.5	55.6	68.1	70.9	76.1	78.9	81.4	83.0	83.6	84.2	85.0	85.2	85.3	85.3	85.3	85.4
GE 600	55.1	56.2	68.9	71.7	77.0	80.2	82.7	84.7	85.3	85.9	86.7	86.8	86.9	86.9	86.9	87.0
GE 500	55.1	56.2	69.0	72.0	77.7	80.9	83.7	86.3	87.0	87.8	88.6	89.2	89.3	89.3	89.3	89.4
GE 400	55.2	56.3	69.4	72.6	78.7	81.9	84.8	87.5	88.2	89.2	90.2	90.8	90.9	91.0	91.0	91.2
GE 300	55.2	56.3	69.4	73.0	79.4	82.7	86.3	89.4	90.2	91.5	92.9	93.8	94.0	94.1	94.1	94.2
GE 200	55.2	56.3	69.4	73.0	79.4	82.7	86.3	89.5	90.3	91.9	93.4	94.3	94.6	94.7	95.4	95.8
GE 100	55.2	56.3	69.4	73.0	79.5	82.8	86.6	90.0	90.8	92.3	93.9	94.8	95.1	95.4	96.5	99.4
GE 000	55.2	56.3	69.4	73.0	79.5	82.8	86.6	90.0	90.8	92.3	93.9	94.8	95.1	95.4	96.5	100.0

TOTAL NUMBER OF OBSERVATIONS 849

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	20.4	20.9	27.2	28.4	30.9	32.2	33.3	34.1	34.5	34.7	34.8	34.9	34.9	35.0	35.1	35.2
GE 20000	22.7	23.2	30.5	32.0	34.9	36.3	37.5	38.5	38.9	39.1	39.3	39.4	39.4	39.4	39.5	39.7
GE 18000	22.7	23.2	30.6	32.1	35.0	36.4	37.6	38.6	39.0	39.2	39.4	39.4	39.5	39.5	39.6	39.8
GE 16000	22.7	23.2	30.6	32.1	35.0	36.4	37.6	38.6	39.0	39.2	39.4	39.4	39.5	39.5	39.6	39.8
GE 14000	22.8	23.3	30.6	32.1	35.0	36.4	37.6	38.6	39.0	39.2	39.4	39.5	39.5	39.5	39.6	39.8
GE 12000	22.9	23.4	30.7	32.2	35.1	36.5	37.8	38.8	39.1	39.4	39.6	39.6	39.7	39.7	39.8	39.9
GE 10000	23.7	24.3	31.9	33.4	36.3	37.7	39.0	40.0	40.4	40.7	40.8	40.9	40.9	41.0	41.1	41.2
GE 9000	24.1	24.7	32.4	34.0	37.0	38.4	39.7	40.7	41.1	41.4	41.6	41.6	41.7	41.7	41.8	41.9
GE 8000	25.2	25.8	33.8	35.4	38.5	39.9	41.3	42.4	42.8	43.1	43.3	43.3	43.4	43.4	43.5	43.7
GE 7000	25.5	26.2	34.3	36.0	39.3	40.8	42.1	43.2	43.6	43.9	44.1	44.2	44.2	44.3	44.4	44.5
GE 6000	25.6	26.3	34.5	36.2	39.5	41.0	42.4	43.4	43.8	44.2	44.4	44.4	44.5	44.5	44.6	44.8
GE 5000	25.9	26.5	34.9	36.6	39.9	41.4	42.9	44.0	44.4	44.7	45.0	45.0	45.1	45.1	45.2	45.3
GE 4500	26.4	27.0	35.5	37.2	40.6	42.2	43.7	44.8	45.2	45.6	45.8	45.8	45.9	45.9	46.0	46.1
GE 4000	27.6	28.3	37.3	39.1	42.6	44.1	45.7	46.8	47.2	47.6	47.8	47.8	47.9	47.9	48.0	48.2
GE 3500	29.6	30.4	39.7	41.6	45.2	46.8	48.5	49.6	50.0	50.4	50.6	50.6	50.7	50.7	50.8	51.0
GE 3000	32.5	33.3	43.2	45.2	49.0	50.8	52.5	53.7	54.2	54.5	54.8	54.8	54.9	54.9	55.0	55.2
GE 2500	34.0	34.9	45.3	47.3	51.3	53.1	55.1	56.3	56.8	57.2	57.4	57.5	57.5	57.6	57.7	57.8
GE 2000	37.8	38.8	50.2	52.5	56.9	58.8	61.0	62.2	62.6	63.1	63.4	63.5	63.5	63.6	63.7	63.8
GE 1800	39.2	40.2	52.1	54.5	59.0	61.1	63.2	64.6	65.1	65.6	65.9	65.9	66.0	66.0	66.1	66.3
GE 1500	41.8	42.9	55.6	58.2	63.1	65.3	67.7	69.3	70.0	70.6	71.0	71.0	71.1	71.1	71.2	71.3
GE 1200	43.6	44.8	58.3	61.0	66.3	68.8	71.4	73.3	74.0	74.7	75.2	75.2	75.3	75.3	75.4	75.6
GE 1000	45.4	46.5	60.6	63.5	69.3	71.9	74.6	76.6	77.5	78.5	79.1	79.2	79.2	79.3	79.4	79.5
GE 900	46.1	47.3	61.5	64.5	70.4	73.1	75.9	78.0	79.0	80.0	80.6	80.7	80.8	80.8	80.9	81.1
GE 800	46.5	47.8	62.2	65.3	71.5	74.3	77.1	79.5	80.5	81.6	82.2	82.3	82.4	82.4	82.6	82.7
GE 700	47.1	48.3	63.1	66.2	72.5	75.5	78.4	80.8	81.9	83.1	83.8	83.9	84.0	84.0	84.1	84.3
GE 600	47.5	48.7	63.8	67.0	73.5	76.6	79.6	82.2	83.5	84.6	85.5	85.6	85.7	85.7	85.8	86.0
GE 500	47.9	49.1	64.7	68.1	75.1	78.3	81.7	84.6	86.2	87.5	88.4	88.6	88.8	88.8	88.9	89.1
GE 400	48.0	49.3	64.9	68.5	76.0	79.2	82.8	85.9	87.6	89.1	90.2	90.5	90.6	90.7	90.8	91.0
GE 300	48.1	49.3	65.1	68.7	76.3	79.6	83.4	86.7	88.6	90.3	91.6	92.0	92.2	92.4	92.6	92.8
GE 200	48.1	49.3	65.1	68.7	76.4	79.7	83.5	86.9	88.9	90.8	92.5	93.1	93.5	93.9	94.5	95.0
GE 100	48.1	49.3	65.1	68.7	76.4	79.7	83.5	87.1	89.0	91.0	92.8	93.4	93.9	94.6	95.7	99.6
GE 000	48.1	49.3	65.1	68.7	76.4	79.7	83.5	87.1	89.0	91.0	92.8	93.4	93.9	94.6	95.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6792

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	21.8	22.3	26.9	27.4	29.6	31.0	31.6	31.8	31.8	31.8	32.2	32.2	32.2	32.3	32.3	32.3
GE 20000	26.0	26.7	32.0	32.6	35.1	36.7	37.6	37.8	37.8	37.8	38.2	38.2	38.2	38.3	38.3	38.3
GE 18000	26.0	26.7	32.0	32.6	35.1	36.7	37.6	37.8	37.8	37.8	38.2	38.2	38.2	38.3	38.3	38.3
GE 16000	26.0	26.7	32.0	32.6	35.1	36.7	37.6	37.8	37.8	37.8	38.2	38.2	38.2	38.3	38.3	38.3
GE 14000	26.0	26.7	32.0	32.6	35.1	36.7	37.6	37.8	37.8	37.8	38.2	38.2	38.2	38.3	38.3	38.3
GE 12000	26.1	26.8	32.2	32.9	35.5	37.1	38.1	38.3	38.3	38.3	38.6	38.6	38.6	38.7	38.7	38.7
GE 10000	26.9	27.8	33.2	34.0	36.8	38.4	39.4	39.6	39.6	39.6	39.9	39.9	39.9	40.0	40.0	40.0
GE 9000	27.3	28.3	33.9	34.6	37.4	39.0	40.0	40.2	40.2	40.2	40.5	40.5	40.5	40.6	40.6	40.6
GE 8000	28.9	29.9	35.8	36.6	40.1	41.7	42.7	42.9	42.9	42.9	43.2	43.2	43.2	43.3	43.3	43.3
GE 7000	29.4	30.3	36.3	37.1	40.6	42.3	43.3	43.5	43.5	43.5	43.9	43.9	43.9	44.0	44.0	44.0
GE 6000	29.4	30.3	36.3	37.1	40.6	42.3	43.3	43.5	43.5	43.5	43.9	43.9	43.9	44.0	44.0	44.0
GE 5000	30.5	31.5	37.5	38.3	41.8	43.4	44.5	44.7	44.7	44.7	45.1	45.1	45.1	45.2	45.2	45.2
GE 4500	32.4	33.4	39.7	40.4	44.0	45.6	46.7	46.9	46.9	46.9	47.3	47.3	47.3	47.4	47.4	47.4
GE 4000	34.9	36.2	42.8	43.5	47.4	49.0	50.1	50.4	50.4	50.4	50.9	50.9	50.9	51.0	51.0	51.0
GE 3500	37.4	38.8	45.7	46.6	50.4	52.0	53.1	53.5	53.5	53.5	54.0	54.0	54.0	54.1	54.1	54.1
GE 3000	43.4	45.1	52.5	53.7	57.6	59.2	60.5	61.2	61.2	61.2	61.7	61.7	61.8	61.9	61.9	61.9
GE 2500	44.8	46.6	54.7	56.0	60.0	61.6	63.1	63.8	63.8	63.8	64.3	64.3	64.4	64.5	64.5	64.5
GE 2000	49.6	51.5	60.8	62.2	66.7	68.4	70.3	71.0	71.0	71.0	71.5	71.5	71.6	71.7	71.7	71.7
GE 1800	51.6	53.7	63.0	64.5	69.0	70.8	72.7	73.3	73.3	73.3	73.9	73.9	74.0	74.1	74.1	74.1
GE 1500	54.3	56.3	66.3	67.8	72.4	74.2	76.1	76.8	76.8	76.8	77.3	77.3	77.4	77.5	77.5	77.5
GE 1200	56.9	59.1	69.8	71.4	76.5	78.3	80.2	80.9	80.9	80.9	81.5	81.5	81.6	81.7	81.7	81.7
GE 1000	59.5	61.7	73.0	74.7	80.0	81.9	83.9	84.6	84.6	84.9	85.6	85.6	85.7	85.8	85.8	85.8
GE 900	60.9	63.3	75.1	76.8	82.0	84.5	86.6	87.3	87.3	87.6	88.3	88.3	88.4	88.5	88.5	88.5
GE 800	61.4	63.9	75.7	77.4	82.7	85.2	87.2	88.1	88.1	88.4	89.0	89.0	89.1	89.2	89.2	89.2
GE 700	62.7	65.2	77.2	79.0	84.4	87.1	89.2	90.1	90.1	90.4	91.3	91.3	91.4	91.5	91.5	91.5
GE 600	63.1	65.6	77.7	79.6	85.3	88.0	90.1	91.0	91.0	91.3	92.2	92.2	92.3	92.4	92.4	92.4
GE 500	63.3	65.8	78.2	80.0	86.3	89.2	91.5	92.8	92.8	93.1	94.1	94.1	94.2	94.3	94.3	94.3
GE 400	63.7	66.1	78.5	80.3	86.7	89.6	92.3	93.7	93.7	94.0	95.6	95.7	95.8	96.2	96.2	96.2
GE 300	63.7	66.1	78.5	80.3	87.2	90.1	93.0	94.4	94.4	94.8	96.8	97.1	97.2	97.6	97.6	97.6
GE 200	63.7	66.1	78.5	80.3	87.2	90.1	93.2	95.2	95.2	95.6	97.6	98.5	98.7	99.1	99.4	99.4
GE 100	63.7	66.1	78.5	80.3	87.2	90.1	93.2	95.2	95.2	95.6	97.6	98.7	98.9	99.7	99.9	99.9
GE 000	63.7	66.1	78.5	80.3	87.2	90.1	93.2	95.2	95.2	95.6	97.6	98.7	98.9	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	17.3	17.6	23.8	24.5	27.2	28.0	28.7	29.5	30.1	30.6	31.3	31.4	31.4	31.4	31.5	31.5
GE 20000	21.3	21.6	28.1	29.1	32.0	33.0	33.8	34.5	35.2	35.7	36.3	36.5	36.5	36.5	36.6	36.6
GE 18000	21.3	21.6	28.1	29.1	32.0	33.0	33.8	34.5	35.2	35.7	36.3	36.5	36.5	36.5	36.6	36.6
GE 16000	21.3	21.6	28.1	29.1	32.0	33.0	33.8	34.5	35.2	35.7	36.3	36.5	36.5	36.5	36.6	36.6
GE 14000	21.3	21.6	28.1	29.1	32.0	33.0	33.8	34.5	35.2	35.7	36.3	36.5	36.5	36.5	36.6	36.6
GE 12000	21.6	21.9	28.4	29.5	32.4	33.3	34.1	34.8	35.5	36.0	36.7	36.8	36.8	36.8	36.9	36.9
GE 10000	22.5	22.8	29.2	30.3	33.3	34.3	35.1	35.8	36.5	37.0	37.6	37.7	37.7	37.7	37.8	37.8
GE 9000	22.6	22.9	29.8	30.9	33.9	34.8	35.6	36.3	37.0	37.5	38.2	38.3	38.3	38.3	38.4	38.4
GE 8000	23.0	23.3	30.3	31.4	35.5	36.6	37.5	38.3	38.9	39.5	40.1	40.2	40.2	40.2	40.3	40.3
GE 7000	23.0	23.3	30.3	31.4	35.5	36.6	37.5	38.4	39.0	39.6	40.2	40.3	40.3	40.3	40.4	40.4
GE 6000	23.1	23.4	30.4	31.5	35.6	36.7	37.6	38.5	39.1	39.7	40.3	40.4	40.4	40.4	40.5	40.5
GE 5000	23.8	24.1	31.2	32.3	36.3	37.4	38.4	39.2	39.9	40.4	41.1	41.2	41.2	41.2	41.3	41.3
GE 4500	24.7	25.1	32.3	33.3	37.4	38.5	39.5	40.3	41.0	41.5	42.2	42.3	42.3	42.3	42.4	42.4
GE 4000	27.1	27.4	35.2	36.2	40.3	41.4	42.9	43.8	44.4	44.9	45.6	45.7	45.7	45.7	45.8	45.8
GE 3500	29.4	29.7	37.7	38.9	43.1	44.3	45.8	46.9	47.5	48.2	48.8	48.9	49.0	49.0	49.1	49.1
GE 3000	32.8	33.1	41.9	43.2	47.7	48.9	50.4	51.8	52.5	53.1	53.9	54.0	54.1	54.1	54.2	54.2
GE 2500	34.9	35.4	44.6	45.9	50.4	51.6	53.1	54.5	55.2	55.8	56.6	56.7	56.8	56.8	56.9	56.9
GE 2000	39.8	40.4	50.2	51.8	56.3	58.0	59.7	61.2	61.8	62.5	63.2	63.3	63.4	63.4	63.5	63.5
GE 1800	40.8	41.4	51.2	52.9	57.6	59.2	61.0	62.5	63.1	63.8	64.5	64.6	64.7	64.7	64.8	64.8
GE 1500	44.5	45.2	55.7	57.5	63.0	64.7	66.5	68.2	69.0	69.7	70.4	70.5	70.6	70.6	70.8	70.8
GE 1200	47.8	48.5	60.0	61.9	67.6	69.4	71.2	73.3	74.2	74.8	75.6	75.7	75.8	75.8	75.9	75.9
GE 1000	49.8	50.4	62.8	64.8	70.9	72.6	74.8	77.2	78.1	78.8	79.6	79.7	79.8	79.8	79.9	79.9
GE 900	51.3	51.9	64.7	66.9	73.0	74.7	77.0	79.5	80.3	81.1	81.8	82.0	82.2	82.2	82.3	82.3
GE 800	52.4	53.0	65.9	68.2	74.6	76.5	78.8	81.3	82.2	82.9	83.7	83.9	84.0	84.0	84.1	84.1
GE 700	53.4	54.1	67.3	69.9	76.3	78.3	80.8	83.2	84.1	85.1	85.8	86.0	86.1	86.1	86.2	86.2
GE 600	53.8	54.4	68.3	71.0	78.0	79.9	82.8	85.3	86.1	87.1	87.8	88.1	88.2	88.2	88.3	88.3
GE 500	54.0	54.6	69.0	71.8	79.7	81.6	84.8	87.7	88.8	90.2	91.2	91.4	91.5	91.5	91.6	91.6
GE 400	54.2	54.8	69.2	72.2	80.5	82.7	86.7	90.0	91.2	92.7	93.7	93.9	94.0	94.0	94.5	94.5
GE 300	54.2	54.8	69.2	72.4	81.1	83.2	87.4	90.8	91.9	93.5	94.7	95.3	95.4	95.4	95.9	95.9
GE 200	54.2	54.8	69.2	72.4	81.2	83.3	88.0	91.5	92.7	94.5	96.0	97.2	97.3	97.8	98.9	98.9
GE 100	54.2	54.8	69.2	72.4	81.2	83.3	88.0	91.5	92.7	94.5	96.0	97.2	97.4	98.0	99.7	99.8
GE 000	54.2	54.8	69.2	72.4	81.2	83.3	88.0	91.5	92.7	94.5	96.0	97.2	97.4	98.0	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	10.2	10.3	14.8	15.5	18.9	20.4	21.0	21.7	22.6	23.1	23.4	23.5	23.9	24.2	24.3	24.4
GE 20000	12.5	12.6	17.8	18.8	22.6	24.3	25.2	25.9	26.8	27.4	27.7	27.8	28.2	28.5	28.6	28.8
GE 18000	12.5	12.6	17.8	18.8	22.6	24.3	25.2	25.9	26.8	27.4	27.7	27.8	28.2	28.5	28.6	28.8
GE 16000	12.5	12.6	17.8	18.8	22.6	24.3	25.2	25.9	26.8	27.4	27.7	27.8	28.2	28.5	28.6	28.8
GE 14000	12.5	12.6	17.8	18.8	22.6	24.3	25.2	25.9	26.8	27.4	27.7	27.8	28.2	28.5	28.6	28.8
GE 12000	12.5	12.6	17.8	18.8	22.6	24.3	25.2	25.9	26.8	27.4	27.7	27.8	28.2	28.5	28.6	28.8
GE 10000	12.9	13.0	18.8	19.8	23.7	25.6	26.8	27.5	28.4	29.0	29.4	29.5	29.8	30.1	30.2	30.4
GE 9000	13.3	13.4	19.2	20.4	24.3	26.3	27.5	28.3	29.1	29.8	30.1	30.2	30.5	30.9	31.0	31.2
GE 8000	14.8	14.9	21.2	22.5	26.8	28.9	30.8	31.7	32.6	33.2	33.7	33.9	34.2	34.5	34.6	34.8
GE 7000	14.9	15.1	21.4	22.7	27.0	29.1	31.3	32.3	33.1	33.8	34.2	34.4	34.7	35.1	35.2	35.4
GE 6000	14.9	15.1	21.4	22.7	27.0	29.1	31.3	32.3	33.1	33.8	34.2	34.4	34.7	35.1	35.2	35.4
GE 5000	15.5	15.6	21.9	23.2	27.5	29.7	31.8	32.8	33.7	34.3	34.7	34.9	35.3	35.6	35.7	35.9
GE 4500	16.0	16.1	22.5	23.8	28.3	30.4	32.6	33.5	34.4	35.1	35.5	35.7	36.0	36.3	36.5	36.7
GE 4000	17.0	17.1	23.4	24.8	29.6	31.9	34.1	35.2	36.3	37.0	37.4	37.6	38.0	38.3	38.4	38.6
GE 3500	18.9	19.1	25.7	27.1	31.8	34.3	36.5	37.5	38.7	39.4	39.8	40.0	40.3	40.6	40.8	41.0
GE 3000	21.7	21.9	28.8	30.2	35.6	38.1	40.2	41.3	42.6	43.3	43.8	44.0	44.3	44.7	44.8	45.1
GE 2500	23.9	24.1	31.8	33.5	39.1	41.6	43.8	44.8	46.1	46.9	47.3	47.5	47.8	48.3	48.4	48.6
GE 2000	27.5	28.0	36.8	38.7	44.8	47.4	49.7	50.8	52.0	53.0	53.4	53.7	54.0	54.4	54.5	54.7
GE 1800	28.8	29.4	38.3	40.3	46.7	49.4	51.6	52.9	54.2	55.2	55.6	55.8	56.1	56.7	56.8	57.0
GE 1500	32.0	32.8	42.7	45.1	51.9	54.8	57.2	58.6	59.9	61.0	61.5	61.7	62.0	62.7	62.8	63.0
GE 1200	34.3	35.1	45.4	48.2	55.5	58.8	61.3	63.2	64.5	65.6	66.1	66.3	66.7	67.3	67.4	67.6
GE 1000	35.7	36.5	47.7	51.1	59.2	62.6	65.3	67.5	68.8	69.9	70.4	70.6	71.0	71.6	71.7	71.9
GE 900	36.5	37.2	49.5	52.9	61.2	64.5	67.3	69.7	71.0	72.3	72.8	73.0	73.3	74.0	74.1	74.3
GE 800	37.2	38.0	50.5	54.1	62.8	66.1	69.2	71.7	73.0	74.3	74.8	75.1	75.4	76.0	76.1	76.3
GE 700	38.3	39.0	52.7	56.6	65.5	68.8	72.2	75.1	76.6	78.0	78.6	78.9	79.2	80.1	80.2	80.4
GE 600	38.9	39.7	54.0	58.1	67.5	71.2	74.6	77.6	79.2	80.9	81.5	81.8	82.2	83.0	83.1	83.3
GE 500	39.2	40.0	54.7	58.9	68.8	73.0	77.0	80.4	82.2	84.5	85.4	85.9	86.3	87.2	87.3	87.5
GE 400	39.4	40.1	55.2	59.5	70.1	74.7	79.5	83.3	85.4	87.7	88.7	89.4	89.9	90.8	91.0	91.5
GE 300	39.6	40.3	55.6	60.1	71.1	75.7	80.5	84.5	86.9	89.2	90.5	91.6	92.3	93.2	93.4	94.2
GE 200	39.6	40.3	55.6	60.1	71.4	76.0	81.0	85.2	87.5	90.3	91.7	93.4	94.3	95.8	96.2	97.2
GE 100	39.6	40.3	55.6	60.1	71.4	76.0	81.1	85.3	87.6	90.5	91.9	93.9	94.8	96.8	98.3	99.7
GE 000	39.6	40.3	55.6	60.1	71.4	76.0	81.1	85.3	87.6	90.5	91.9	93.9	94.8	96.8	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	9.6	9.7	14.8	15.8	19.1	19.6	21.1	21.8	22.2	22.8	23.0	23.1	23.2	23.2	23.3	23.3
GE 20000	12.6	12.8	19.0	20.4	24.8	25.4	27.3	28.2	28.5	29.1	29.4	29.5	29.6	29.6	29.7	29.7
GE 18000	12.7	12.9	19.1	20.5	24.9	25.5	27.4	28.3	28.6	29.2	29.5	29.6	29.7	29.7	29.8	29.8
GE 16000	12.7	12.9	19.1	20.5	24.9	25.5	27.4	28.3	28.6	29.2	29.5	29.6	29.7	29.7	29.8	29.8
GE 14000	12.8	13.0	19.2	20.6	25.1	25.6	27.5	28.4	28.7	29.4	29.6	29.7	29.8	29.8	29.9	29.9
GE 12000	12.9	13.1	19.4	20.8	25.2	25.7	27.6	28.5	28.8	29.5	29.7	29.8	29.9	29.9	30.0	30.0
GE 10000	13.5	13.8	20.2	21.6	26.2	27.1	29.1	30.2	30.5	31.2	31.4	31 5	31.6	31.6	31.7	31.7
GE 9000	13.9	14.1	20.5	22.4	27.0	28.0	30.0	31.1	31.4	32.0	32.4	32.5	32.6	32.6	32.7	32.7
GE 8000	15.2	15.4	22.0	23.9	28.8	30.1	32.5	34.1	34.4	35.1	35.4	35.7	35.9	36.0	36.1	36.1
GE 7000	15.2	15.4	22.0	23.9	28.9	30.3	32.8	34.4	34.7	35.4	35.8	36.1	36.3	36.5	36.6	36.6
GE 6000	15.2	15.4	22.0	23.9	28.9	30.3	32.8	34.4	34.7	35.4	35.8	36.1	36.3	36.5	36.6	36.6
GE 5000	15.5	15.7	22.6	24.4	29.5	31.1	33.5	35.2	35.5	36.1	36.6	36.9	37.1	37.2	37.3	37.3
GE 4500	15.7	15.9	22.9	24.8	30.0	31.6	34.1	35.8	36.1	36.8	37.2	37.5	37.7	37.8	38.0	38.0
GE 4000	17.1	17.4	24.7	26.9	32.0	33.8	36.2	38.0	38.5	39.1	39.6	39.9	40.1	40.2	40.3	40.3
GE 3500	18.8	19.2	26.9	29.1	34.5	36.2	38.7	40.4	41.0	41.6	42.0	42.4	42.6	42.7	42.8	42.8
GE 3000	22.7	23.2	31.3	34.0	39.7	41.5	44.0	45.8	46.5	47.1	47.5	47.8	48.1	48.2	48.3	48.3
GE 2500	25.2	25.7	34.2	36.9	42.7	44.5	47.0	48.8	49.6	50.2	50.6	51.0	51.2	51.3	51.4	51.4
GE 2000	29.2	29.8	38.6	41.5	47.8	49.9	52.7	54.5	55.3	55.9	56.3	56.8	57.0	57.1	57.2	57.2
GE 1800	31.3	31.8	40.9	43.8	50.3	52.4	55.2	57.1	57.8	58.5	58.9	59.4	59.6	59.7	59.8	59.8
GE 1500	35.6	36.2	45.9	48.9	56.7	58.9	61.7	63.9	64.6	65.5	66.1	66.6	66.8	66.9	67.0	67.0
GE 1200	37.7	38.4	48.9	52.3	60.8	63.7	66.5	68.8	69.6	70.4	71.2	71.6	71.8	71.9	72.0	72.0
GE 1000	39.4	40.1	51.8	55.3	64.6	67.7	71.2	74.0	74.7	75.6	76.3	76.8	77.0	77.1	77.2	77.2
GE 900	39.9	40.6	52.8	56.2	65.7	68.8	72.3	75.1	75.9	76.8	77.5	78.0	78.2	78.3	78.4	78.4
GE 800	40.6	41.4	54.2	57.7	67.8	71.1	74.6	77.6	78.8	79.7	80.4	80.9	81.1	81.2	81.3	81.3
GE 700	41.7	42.7	56.3	60.1	70.4	73.8	77.4	80.4	81.7	82.7	84.0	84.4	84.7	84.8	84.9	84.9
GE 600	42.2	43.1	57.5	61.5	72.6	76.3	80.2	83.2	84.5	85.7	87.0	87.5	87.8	88.0	88.1	88.1
GE 500	42.2	43.1	58.1	62.3	74.0	78.1	82.5	85.9	87.2	88.5	90.1	90.6	91.1	91.3	91.4	91.4
GE 400	42.6	43.5	58.6	63.1	75.4	79.7	84.5	88.4	89.8	91.2	92.9	93.4	94.0	94.2	94.3	94.4
GE 300	42.6	43.5	58.7	63.2	75.5	79.8	84.8	88.7	90.1	91.6	93.7	94.2	94.7	94.9	95.1	95.5
GE 200	42.6	43.5	58.7	63.2	75.5	79.8	84.8	88.7	90.1	91.8	94.2	95.1	95.8	96.2	96.5	97.3
GE 100	42.6	43.5	58.7	63.2	75.5	79.8	84.8	88.7	90.2	92.3	94.6	95.9	97.0	97.6	98.8	99.9
GE 000	42.6	43.5	58.7	63.2	75.5	79.8	84.8	88.7	90.2	92.3	94.6	95.9	97.0	97.6	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 930

D - 2 - 22

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	16.0	16.2	21.5	23.0	24.7	25.7	25.9	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
GE 20000	18.7	18.9	25.2	26.8	29.2	30.6	31.3	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
GE 18000	18.7	18.9	25.3	26.9	29.4	30.8	31.4	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
GE 16000	18.7	18.9	25.3	26.9	29.4	30.8	31.4	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
GE 14000	18.8	19.0	25.4	27.0	29.5	30.9	31.5	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
GE 12000	18.9	19.1	25.5	27.1	29.6	31.0	31.8	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 10000	20.0	20.2	26.6	28.3	30.8	32.2	33.0	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
GE 9000	20.1	20.4	26.8	28.8	31.3	32.8	33.7	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
GE 8000	20.5	20.9	27.5	29.6	32.5	34.4	35.4	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
GE 7000	20.5	20.9	27.5	29.6	32.7	34.6	35.6	36.1	36.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3
GE 6000	20.5	20.9	27.5	29.6	32.7	34.6	35.6	36.1	36.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3
GE 5000	21.0	21.3	28.3	30.3	33.7	35.8	36.8	37.3	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 4500	22.0	22.4	29.4	31.4	34.7	36.9	37.8	38.4	38.5	38.6	38.6	38.6	38.6	38.6	38.6	38.6
GE 4000	23.0	23.3	30.4	32.5	35.8	38.0	38.9	39.5	39.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 3500	27.8	28.4	35.6	37.6	41.1	43.2	44.2	44.7	44.8	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 3000	34.6	35.2	43.3	45.6	49.4	51.6	52.6	53.1	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 2500	40.0	40.8	49.2	51.6	55.6	57.8	58.8	59.4	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6
GE 2000	46.5	47.4	57.0	59.5	63.5	65.8	66.8	67.3	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 1800	48.4	49.6	59.6	62.0	66.1	68.4	69.5	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 1500	52.6	53.8	64.7	67.7	72.5	74.9	76.3	76.9	77.2	77.3	77.3	77.4	77.4	77.4	77.4	77.4
GE 1200	54.8	56.3	68.5	71.7	77.4	80.3	81.9	82.6	82.9	83.2	83.2	83.3	83.3	83.3	83.3	83.3
GE 1000	56.3	57.8	71.3	74.6	81.0	84.0	85.6	86.8	87.1	87.5	87.5	87.6	87.6	87.6	87.6	87.6
GE 900	57.4	59.1	72.9	76.2	82.7	85.7	87.4	88.6	88.9	89.4	89.5	89.6	89.6	89.6	89.6	89.6
GE 800	57.7	59.5	73.3	76.8	83.4	86.5	88.2	89.5	89.8	90.2	90.3	90.4	90.4	90.4	90.4	90.4
GE 700	58.5	60.2	74.8	78.4	85.5	88.6	90.3	91.6	91.9	92.5	92.7	92.8	92.8	92.8	92.8	92.8
GE 600	58.9	60.8	75.8	79.4	86.7	90.0	91.7	93.0	93.4	94.0	94.3	94.4	94.4	94.4	94.4	94.4
GE 500	59.1	61.0	76.3	80.1	87.6	91.2	93.2	94.8	95.3	95.9	96.6	96.7	96.7	96.7	96.7	96.7
GE 400	59.2	61.1	76.8	80.5	88.3	91.9	94.0	95.8	96.2	96.9	97.5	97.6	97.6	97.6	97.6	97.7
GE 300	59.2	61.1	76.8	80.5	88.4	92.2	94.4	96.5	96.9	97.6	98.3	98.5	98.5	98.5	98.5	98.6
GE 200	59.2	61.1	76.8	80.5	88.4	92.2	94.4	96.5	96.9	97.6	98.4	98.6	98.6	98.9	99.0	99.2
GE 100	59.2	61.1	76.8	80.5	88.4	92.2	94.4	96.5	96.9	97.7	98.6	98.9	98.9	99.6	99.7	99.9
GE 000	59.2	61.1	76.8	80.5	88.4	92.2	94.4	96.5	96.9	97.7	98.6	98.9	98.9	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	20.3	20.9	26.8	27.7	28.7	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
GE 20000	24.2	24.8	31.6	32.6	33.5	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
GE 18000	24.4	25.1	31.8	32.8	33.8	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
GE 16000	24.4	25.1	31.8	32.8	33.8	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
GE 14000	24.4	25.1	32.0	33.0	34.0	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
GE 12000	24.8	25.5	32.5	33.4	34.4	34.6	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
GE 10000	26.0	26.7	33.7	34.6	35.7	35.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
GE 9000	26.2	26.9	34.0	34.9	36.0	36.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
GE 8000	27.8	28.5	36.1	37.4	38.8	39.2	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
GE 7000	28.1	28.7	36.5	37.8	39.6	40.2	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5
GE 6000	28.1	28.7	36.5	38.0	39.8	40.4	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 5000	28.3	29.0	36.9	38.4	40.2	40.9	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
GE 4500	29.0	29.8	38.0	39.5	41.3	41.9	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 4000	31.4	32.2	40.4	42.2	44.1	44.7	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 3500	35.7	36.5	45.3	47.0	48.9	49.6	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 3000	42.5	43.5	53.8	55.5	57.5	58.3	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
GE 2500	49.8	51.3	61.6	63.4	65.7	66.6	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 2000	55.9	57.7	68.5	70.4	73.1	74.1	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
GE 1800	57.4	59.2	70.1	72.0	74.7	75.8	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 1500	62.2	64.1	76.0	78.0	81.0	82.4	83.3	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8
GE 1200	64.5	66.6	79.6	81.5	85.1	86.8	88.0	88.3	88.3	88.3	88.4	88.4	88.4	88.4	88.4	88.4
GE 1000	65.9	68.1	82.0	84.3	88.3	90.2	91.5	91.9	91.9	92.0	92.2	92.2	92.2	92.2	92.2	92.2
GE 900	66.1	68.3	82.6	84.8	88.9	90.9	92.2	92.6	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8
GE 800	66.2	68.5	83.2	85.5	89.6	91.5	92.8	93.2	93.2	93.3	93.7	93.7	93.7	93.7	93.7	93.7
GE 700	66.5	68.7	83.9	86.1	90.4	92.6	93.9	94.4	94.4	94.5	94.9	94.9	94.9	94.9	94.9	94.9
GE 600	66.9	69.1	84.6	87.0	91.3	93.5	94.8	95.5	95.5	95.6	96.1	96.1	96.1	96.2	96.2	96.2
GE 500	67.0	69.2	85.2	87.6	92.2	94.5	95.8	96.6	96.6	97.0	97.5	97.5	97.5	97.6	97.6	97.6
GE 400	67.1	69.4	85.5	88.0	92.6	94.9	96.2	97.2	97.3	97.8	98.5	98.6	98.6	98.7	98.7	99.0
GE 300	67.1	69.4	85.5	88.0	92.6	94.9	96.2	97.3	97.4	98.0	98.7	98.8	98.8	98.9	98.9	99.2
GE 200	67.1	69.4	85.5	88.0	92.6	94.9	96.2	97.3	97.4	98.1	98.8	98.9	99.0	99.1	99.1	99.7
GE 100	67.1	69.4	85.5	88.0	92.6	94.9	96.2	97.3	97.4	98.1	98.8	98.9	99.0	99.5	99.5	100.0
GE 000	67.1	69.4	85.5	88.0	92.6	94.9	96.2	97.3	97.4	98.1	98.8	98.9	99.0	99.5	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	25.8	26.0	30.5	31.4	32.8	33.0	33.4	33.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
GE 20000	29.3	29.6	34.8	35.8	37.2	37.5	37.9	38.1	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
GE 18000	29.7	30.0	35.2	36.3	37.7	37.9	38.3	38.5	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 16000	29.7	30.0	35.2	36.3	37.7	37.9	38.3	38.5	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 14000	29.9	30.2	35.7	36.8	38.2	38.4	38.9	39.1	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
GE 12000	30.1	30.5	36.0	37.0	38.4	38.6	39.1	39.3	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
GE 10000	31.9	32.2	37.7	38.9	40.4	40.6	41.0	41.2	41.6	41.6	41.6	41.6	41.6	41.6	41.6	41.6
GE 9000	32.6	32.9	38.5	39.8	41.3	41.6	42.0	42.2	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
GE 8000	35.0	35.4	41.7	43.2	44.7	45.1	45.9	46.1	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 7000	36.2	36.6	42.9	44.6	46.4	46.8	47.8	48.0	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 6000	36.2	36.6	42.9	44.6	46.4	46.8	47.8	48.0	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.3
GE 5000	36.8	37.2	43.6	45.2	47.0	47.5	48.4	48.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
GE 4500	39.4	39.8	46.5	48.1	49.9	50.4	51.3	51.6	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
GE 4000	41.2	41.7	48.3	50.1	51.9	52.3	53.3	53.5	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
GE 3500	46.4	46.8	54.0	55.9	57.9	58.3	59.3	59.5	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
GE 3000	53.2	53.9	62.0	64.2	66.6	67.1	68.0	68.2	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 2500	56.9	57.8	66.2	68.4	71.4	71.8	72.8	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 2000	62.1	63.4	73.2	75.5	78.6	79.0	80.0	80.2	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
GE 1800	62.8	64.0	74.1	76.3	79.5	80.0	80.9	81.2	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 1500	64.6	65.9	77.1	79.3	82.7	83.2	84.2	84.6	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.1
GE 1200	66.4	67.7	80.1	82.5	85.9	86.8	88.2	88.8	89.1	89.2	89.3	89.3	89.3	89.3	89.3	89.3
GE 1000	67.4	68.8	81.7	84.1	87.8	88.7	90.1	90.7	91.1	91.2	91.3	91.3	91.3	91.3	91.3	91.3
GE 900	67.4	68.8	81.8	84.2	88.1	88.9	90.3	91.0	91.3	91.4	91.5	91.5	91.5	91.5	91.5	91.5
GE 800	67.8	69.2	83.0	85.4	89.5	90.3	91.7	92.4	92.7	92.8	93.0	93.0	93.0	93.0	93.0	93.0
GE 700	67.8	69.2	83.6	86.0	90.2	91.1	92.5	93.1	93.4	93.8	94.2	94.2	94.2	94.2	94.2	94.2
GE 600	68.0	69.4	84.5	87.1	91.7	92.6	94.0	94.7	95.0	95.5	96.2	96.3	96.3	96.3	96.3	96.3
GE 500	68.2	69.6	85.1	87.7	92.4	93.2	95.2	95.9	96.2	96.8	97.6	97.7	97.7	97.7	97.7	97.7
GE 400	68.2	69.6	85.1	87.7	92.4	93.2	95.2	95.9	96.2	97.1	98.0	98.3	98.5	98.5	98.6	98.8
GE 300	68.2	69.6	85.1	87.7	92.4	93.3	95.3	96.0	96.4	97.3	98.2	98.5	98.7	98.7	98.8	99.0
GE 200	68.2	69.6	85.1	87.7	92.4	93.3	95.3	96.0	96.4	97.4	98.3	98.7	99.4	99.5	99.6	99.9
GE 100	68.2	69.6	85.1	87.7	92.4	93.3	95.3	96.0	96.4	97.4	98.3	98.7	99.4	99.6	99.7	100.0
GE 000	68.2	69.6	85.1	87.7	92.4	93.3	95.3	96.0	96.4	97.4	98.3	98.7	99.4	99.6	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 929

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	29.7	30.2	33.4	34.6	36.3	36.9	37.0	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 20000	34.3	34.8	38.5	39.7	41.5	42.0	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 18000	34.3	34.8	38.5	39.7	41.5	42.0	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 16000	34.3	34.8	38.5	39.7	41.5	42.0	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
GE 14000	34.3	34.8	38.5	39.7	41.6	42.2	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
GE 12000	34.3	34.8	38.5	39.7	41.6	42.2	42.5	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
GE 10000	35.3	35.8	39.7	40.9	42.8	43.3	43.7	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 9000	36.2	36.8	40.8	41.9	43.9	44.4	44.7	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 8000	38.8	39.4	43.5	45.1	47.0	47.5	48.2	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
GE 7000	39.7	40.2	44.4	45.9	48.2	48.7	49.7	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
GE 6000	39.8	40.3	44.5	46.0	48.3	48.8	49.8	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 5000	40.2	40.8	44.9	46.5	48.7	49.2	50.2	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
GE 4500	43.0	43.5	47.7	49.2	51.5	52.0	53.0	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 4000	46.0	46.6	50.9	52.4	54.6	55.2	56.3	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 3500	50.3	50.9	55.3	56.8	59.0	59.6	60.8	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
GE 3000	56.5	57.2	62.3	64.4	66.7	67.2	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 2500	58.1	58.8	64.4	66.8	69.6	70.1	71.5	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
GE 2000	62.9	63.9	70.3	72.7	75.7	76.2	77.6	77.8	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
GE 1800	64.1	65.1	71.5	74.0	77.0	77.5	78.9	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
GE 1500	66.5	67.4	74.2	76.7	79.8	80.5	82.0	82.3	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 1200	69.2	70.2	77.5	80.1	83.2	84.2	85.8	86.0	86.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1000	71.2	72.2	80.1	82.8	86.2	87.2	88.8	89.0	89.1	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 900	71.7	72.7	80.9	83.8	87.3	88.3	89.9	90.1	90.2	90.6	90.8	90.8	90.8	90.8	90.8	90.8
GE 800	71.9	72.9	81.6	84.5	88.2	89.1	90.9	91.1	91.2	91.7	91.8	91.8	91.8	91.8	91.8	91.8
GE 700	72.6	73.5	82.4	85.3	89.0	90.0	91.7	91.9	92.0	92.7	92.8	92.8	92.8	92.8	92.8	92.8
GE 600	72.9	73.9	83.1	86.0	89.8	90.8	92.6	93.1	93.2	93.9	94.0	94.0	94.0	94.0	94.0	94.0
GE 500	73.1	74.1	83.3	86.2	90.5	91.8	93.8	94.4	94.8	95.5	95.6	95.6	95.6	95.6	95.6	95.6
GE 400	73.3	74.4	84.1	87.0	91.5	93.0	95.1	95.9	96.5	97.6	98.1	98.1	98.1	98.4	98.5	98.5
GE 300	73.3	74.4	84.2	87.1	91.9	93.5	95.8	96.8	97.3	98.5	98.9	98.9	98.9	99.2	99.4	99.4
GE 200	73.3	74.4	84.2	87.1	92.0	93.7	95.9	97.0	97.6	98.8	99.2	99.6	99.6	99.9	100.0	100.0
GE 100	73.3	74.4	84.2	87.1	92.0	93.7	95.9	97.0	97.6	98.8	99.2	99.6	99.6	99.9	100.0	100.0
GE 000	73.3	74.4	84.2	87.1	92.0	93.7	95.9	97.0	97.6	98.8	99.2	99.6	99.6	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	18.8	19.2	24.1	25.0	27.2	27.9	28.4	28.8	29.1	29.3	29.5	29.5	29.6	29.6	29.7	29.7
GE 20000	22.4	22.7	28.4	29.5	32.0	32.9	33.6	34.1	34.3	34.6	34.7	34.8	34.8	34.9	34.9	35.0
GE 18000	22.4	22.8	28.5	29.6	32.1	33.0	33.8	34.2	34.4	34.7	34.9	34.9	35.0	35.0	35.0	35.1
GE 16000	22.4	22.8	28.5	29.6	32.1	33.0	33.8	34.2	34.4	34.7	34.9	34.9	35.0	35.0	35.0	35.1
GE 14000	22.5	22.9	28.6	29.7	32.2	33.1	33.9	34.3	34.6	34.8	35.0	35.0	35.1	35.1	35.2	35.2
GE 12000	22.7	23.0	28.8	29.9	32.5	33.4	34.1	34.5	34.8	35.0	35.2	35.3	35.3	35.4	35.4	35.4
GE 10000	23.6	24.0	29.9	31.0	33.7	34.7	35.5	35.9	36.2	36.4	36.6	36.7	36.7	36.8	36.8	36.8
GE 9000	24.0	24.5	30.4	31.7	34.4	35.4	36.2	36.7	36.9	37.2	37.4	37.4	37.5	37.5	37.6	37.6
GE 8000	25.5	26.0	32.3	33.7	36.8	37.9	39.1	39.6	39.9	40.1	40.3	40.4	40.5	40.5	40.6	40.6
GE 7000	25.9	26.3	32.7	34.1	37.4	38.6	39.8	40.4	40.7	40.9	41.1	41.2	41.3	41.4	41.4	41.4
GE 6000	25.9	26.3	32.7	34.2	37.4	38.6	39.9	40.4	40.7	41.0	41.2	41.3	41.3	41.4	41.5	41.5
GE 5000	26.4	26.9	33.4	34.8	38.1	39.4	40.6	41.2	41.5	41.7	41.9	42.0	42.1	42.2	42.2	42.2
GE 4500	27.8	28.3	34.9	36.3	39.6	40.9	42.2	42.7	43.0	43.3	43.5	43.6	43.7	43.7	43.8	43.8
GE 4000	29.7	30.2	37.0	38.6	42.0	43.3	44.6	45.2	45.6	45.8	46.1	46.1	46.2	46.3	46.3	46.4
GE 3500	33.1	33.7	40.8	42.4	45.9	47.2	48.5	49.2	49.5	49.8	50.0	50.1	50.2	50.3	50.3	50.3
GE 3000	38.4	39.1	47.0	48.8	52.6	54.0	55.3	56.1	56.5	56.7	57.0	57.1	57.2	57.3	57.3	57.3
GE 2500	41.7	42.5	50.9	52.8	56.8	58.2	59.6	60.4	60.8	61.0	61.3	61.4	61.5	61.6	61.6	61.6
GE 2000	46.7	47.8	56.9	59.0	63.3	64.8	66.4	67.2	67.6	67.9	68.2	68.3	68.4	68.5	68.5	68.5
GE 1800	48.1	49.3	58.6	60.7	65.1	66.7	68.3	69.1	69.5	69.8	70.1	70.2	70.3	70.4	70.4	70.4
GE 1500	51.5	52.7	62.8	65.1	70.0	71.7	73.4	74.4	74.8	75.2	75.5	75.6	75.7	75.8	75.9	75.9
GE 1200	54.0	55.2	66.2	68.7	74.0	76.0	77.9	79.0	79.4	79.8	80.2	80.3	80.4	80.5	80.6	80.6
GE 1000	55.6	56.9	68.8	71.5	77.3	79.4	81.4	82.7	83.2	83.7	84.1	84.2	84.3	84.4	84.4	84.4
GE 900	56.4	57.7	70.0	72.7	78.6	80.8	82.9	84.2	84.7	85.2	85.6	85.7	85.8	85.9	86.0	86.0
GE 800	56.9	58.3	70.9	73.7	79.8	82.0	84.2	85.6	86.1	86.7	87.1	87.2	87.3	87.4	87.5	87.5
GE 700	57.7	59.1	72.3	75.2	81.5	83.8	86.0	87.5	88.0	88.7	89.3	89.4	89.5	89.7	89.7	89.7
GE 600	58.1	59.5	73.2	76.2	82.8	85.3	87.6	89.2	89.8	90.5	91.1	91.3	91.4	91.6	91.6	91.6
GE 500	58.3	59.7	73.7	76.8	83.9	86.6	89.2	91.1	91.7	92.7	93.5	93.7	93.8	94.0	94.0	94.1
GE 400	58.5	59.9	74.1	77.3	84.7	87.5	90.4	92.5	93.3	94.4	95.4	95.6	95.8	96.0	96.2	96.3
GE 300	58.5	59.9	74.2	77.4	85.0	87.8	90.9	93.1	93.9	95.1	96.2	96.6	96.8	97.1	97.2	97.4
GE 200	58.5	59.9	74.2	77.4	85.1	87.9	91.1	93.4	94.2	95.5	96.8	97.5	97.8	98.3	98.6	99.0
GE 100	58.5	59.9	74.2	77.4	85.1	87.9	91.1	93.4	94.3	95.6	96.9	97.7	98.1	98.8	99.4	99.9
GE 000	58.5	59.9	74.2	77.4	85.1	87.9	91.1	93.4	94.3	95.6	96.9	97.7	98.1	98.8	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 7439

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	40.5	41.5	42.8	43.8	45.2	45.2	45.6	45.7	45.9	45.9	45.9	45.9	45.9	45.9	46.2	46.2
GE 20000	45.1	46.3	48.6	49.7	51.3	51.4	51.9	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.5	52.5
GE 18000	45.1	46.3	48.6	49.7	51.3	51.4	51.9	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.5	52.5
GE 16000	45.1	46.3	48.6	49.7	51.3	51.4	51.9	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.5	52.5
GE 14000	45.1	46.3	48.6	49.7	51.3	51.4	51.9	52.1	52.3	52.3	52.3	52.3	52.3	52.3	52.5	52.5
GE 12000	45.2	46.4	48.7	49.8	51.4	51.5	52.1	52.2	52.4	52.4	52.4	52.4	52.4	52.4	52.6	52.6
GE 10000	47.6	48.8	51.4	52.5	54.1	54.2	54.7	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.3	55.3
GE 9000	47.9	49.2	51.9	53.3	54.9	55.1	55.6	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.2	56.2
GE 8000	50.5	51.7	54.5	55.8	57.6	58.1	58.6	58.7	59.2	59.2	59.2	59.3	59.3	59.3	59.5	59.5
GE 7000	50.5	51.7	54.6	56.0	57.7	58.2	58.8	59.0	59.4	59.4	59.4	59.5	59.5	59.5	59.7	59.7
GE 6000	50.7	51.9	54.9	56.3	58.1	58.5	59.2	59.3	59.7	59.7	59.7	59.8	59.8	59.8	60.1	60.1
GE 5000	52.7	53.9	57.1	58.4	60.2	60.6	61.3	61.4	61.8	61.8	61.8	62.0	62.0	62.0	62.2	62.2
GE 4500	54.5	55.8	59.3	60.7	62.5	63.0	63.6	63.7	64.2	64.2	64.2	64.3	64.3	64.3	64.5	64.5
GE 4000	59.1	60.4	64.4	66.1	68.1	68.5	69.2	69.3	69.7	69.7	69.7	69.9	69.9	69.9	70.1	70.1
GE 3500	62.3	63.7	68.4	70.3	72.4	73.0	73.6	74.0	74.5	74.5	74.5	74.6	74.6	74.6	74.9	74.9
GE 3000	65.0	66.5	71.6	73.5	75.9	76.6	77.3	77.6	78.2	78.2	78.2	78.3	78.3	78.3	78.5	78.5
GE 2500	66.6	68.2	74.0	75.9	78.2	79.0	79.6	80.0	80.5	80.5	80.5	80.6	80.6	80.6	80.9	80.9
GE 2000	68.1	69.7	75.8	77.6	80.2	81.1	81.8	82.1	82.6	82.6	82.6	82.8	82.8	82.8	83.1	83.1
GE 1800	68.5	70.3	76.4	78.3	81.0	81.9	82.6	83.1	83.6	83.6	83.6	83.8	83.8	83.8	84.1	84.1
GE 1500	71.1	73.0	79.6	81.5	84.2	85.1	86.0	86.4	87.1	87.1	87.1	87.2	87.2	87.2	87.5	87.5
GE 1200	71.6	73.5	80.3	82.2	85.4	86.3	87.2	87.7	88.3	88.3	88.3	88.4	88.4	88.4	88.8	88.8
GE 1000	73.6	75.6	83.0	84.9	88.7	89.5	90.5	91.1	91.8	91.8	91.8	91.9	91.9	91.9	92.2	92.2
GE 900	73.9	75.9	83.3	85.2	89.0	89.9	91.2	91.8	92.4	92.4	92.4	92.5	92.5	92.5	92.9	92.9
GE 800	74.2	76.2	84.1	86.1	90.0	90.9	92.3	93.0	93.8	94.1	94.1	94.2	94.2	94.2	94.5	94.5
GE 700	74.2	76.2	84.2	86.2	90.1	91.0	92.5	93.2	94.0	94.3	94.3	94.4	94.4	94.4	94.8	94.8
GE 600	74.2	76.2	84.3	86.5	90.5	91.4	93.1	93.8	94.7	95.3	95.3	95.4	95.4	95.4	95.8	95.8
GE 500	74.3	76.3	84.4	86.9	91.0	91.9	94.1	94.8	95.7	96.4	96.6	96.7	96.7	96.7	97.0	97.0
GE 400	74.4	76.4	84.6	87.2	91.3	92.2	94.5	95.2	96.3	97.1	97.2	97.3	97.3	97.3	97.7	97.7
GE 300	74.4	76.4	84.6	87.2	91.3	92.3	95.2	96.1	97.2	98.0	98.1	98.3	98.3	98.3	98.7	98.7
GE 200	74.4	76.4	84.6	87.2	91.3	92.3	95.2	96.1	97.2	98.1	98.2	98.4	98.6	99.6	99.9	99.9
GE 100	74.4	76.4	84.6	87.2	91.3	92.3	95.2	96.1	97.2	98.1	98.2	98.4	98.6	99.6	99.9	99.9
GE 000	74.4	76.4	84.6	87.2	91.3	92.3	95.2	96.1	97.2	98.1	98.2	98.4	98.6	99.7	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 899

D - 2 - 28

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	32.2	33.0	37.0	37.9	39.4	39.9	40.6	41.3	41.6	41.7	41.7	41.7	41.7	41.7	42.0	42.0
GE 20000	34.8	35.6	40.8	41.8	43.8	44.2	45.1	46.3	46.7	46.8	46.8	46.8	46.8	46.8	47.1	47.1
GE 18000	34.8	35.6	40.8	41.9	43.9	44.3	45.2	46.4	46.8	46.9	46.9	46.9	46.9	46.9	47.2	47.2
GE 16000	34.8	35.6	40.8	41.9	43.9	44.3	45.2	46.4	46.8	46.9	46.9	46.9	46.9	46.9	47.2	47.2
GE 14000	34.8	35.6	40.8	41.9	43.9	44.3	45.2	46.4	46.8	46.9	46.9	46.9	46.9	46.9	47.2	47.2
GE 12000	34.9	35.7	40.9	42.0	44.0	44.4	45.3	46.6	46.9	47.0	47.0	47.0	47.0	47.0	47.3	47.3
GE 10000	36.4	37.2	42.6	43.7	45.7	46.1	47.0	48.2	48.6	48.7	48.7	48.7	48.7	48.7	49.0	49.0
GE 9000	36.9	37.7	43.1	44.3	46.6	47.0	48.0	49.2	49.6	49.7	49.7	49.7	49.7	49.7	50.0	50.0
GE 8000	39.8	40.6	46.0	47.2	49.4	50.0	51.0	52.3	52.7	52.8	52.8	53.1	53.1	53.1	53.4	53.4
GE 7000	39.8	40.6	46.0	47.2	49.4	50.0	51.2	52.6	52.9	53.1	53.1	53.4	53.4	53.4	53.8	53.8
GE 6000	40.0	40.8	46.2	47.4	49.7	50.2	51.4	52.8	53.1	53.3	53.3	53.7	53.7	53.7	54.0	54.0
GE 5000	40.7	41.6	47.4	48.7	50.9	51.4	52.7	54.0	54.3	54.6	54.6	54.9	54.9	54.9	55.2	55.2
GE 4500	42.8	43.7	49.7	50.9	53.3	53.9	55.1	56.4	56.8	57.0	57.0	57.3	57.3	57.3	57.7	57.7
GE 4000	47.9	49.0	55.4	56.7	59.6	60.1	61.4	62.8	63.1	63.3	63.3	63.7	63.7	63.7	64.0	64.0
GE 3500	50.0	51.1	58.1	59.6	63.2	63.8	65.1	66.4	66.9	67.1	67.1	67.4	67.4	67.4	67.8	67.8
GE 3000	52.7	54.0	61.3	62.8	66.8	67.7	69.2	70.6	71.0	71.2	71.2	71.6	71.6	71.6	71.9	71.9
GE 2500	53.9	55.2	63.3	64.8	68.8	69.7	71.2	72.6	73.0	73.2	73.2	73.6	73.6	73.7	74.1	74.1
GE 2000	56.1	57.4	65.8	67.3	71.7	72.7	74.2	75.7	76.1	76.3	76.4	76.8	76.8	76.9	77.3	77.3
GE 1800	57.6	58.9	67.4	69.0	73.7	74.7	76.2	77.7	78.1	78.3	78.4	78.8	78.8	78.9	79.3	79.3
GE 1500	59.8	61.1	70.1	71.7	76.3	77.3	79.0	80.6	81.1	81.3	81.6	81.9	81.9	82.0	82.4	82.4
GE 1200	61.3	62.9	72.0	73.6	78.4	79.7	81.3	82.9	83.4	83.7	83.9	84.2	84.2	84.3	84.8	84.8
GE 1000	63.2	64.8	74.3	76.1	81.1	82.3	84.4	86.1	86.9	87.2	87.4	87.8	87.8	87.9	88.3	88.3
GE 900	63.9	65.4	75.3	77.2	82.3	83.7	85.9	87.6	88.4	88.8	89.0	89.3	89.3	89.4	89.9	89.9
GE 800	64.8	66.3	76.4	78.6	83.8	85.1	87.3	89.2	90.1	90.6	90.8	91.1	91.1	91.2	91.7	91.7
GE 700	64.8	66.3	76.7	79.0	84.3	85.8	88.2	90.1	91.0	91.4	91.7	92.0	92.0	92.1	92.6	92.6
GE 600	64.8	66.3	76.9	79.3	84.9	86.3	89.0	90.9	91.9	92.7	92.9	93.2	93.2	93.3	93.8	93.8
GE 500	64.9	66.4	77.1	79.6	85.6	87.1	90.1	92.1	93.1	94.2	94.4	94.8	94.8	94.9	95.3	95.3
GE 400	65.0	66.6	77.3	79.9	86.4	88.1	91.3	93.3	94.3	95.8	96.0	96.3	96.3	96.4	96.9	96.9
GE 300	65.0	66.6	77.4	80.0	86.7	88.4	91.7	94.2	95.2	97.0	97.2	97.9	97.9	98.0	98.4	98.4
GE 200	65.0	66.6	77.4	80.0	86.7	88.6	91.9	94.6	95.6	97.3	97.8	98.6	98.8	98.9	99.3	99.4
GE 100	65.0	66.6	77.4	80.0	86.7	88.6	91.9	94.6	95.6	97.3	97.9	98.7	98.9	99.0	99.8	100.0
GE 000	65.0	66.6	77.4	80.0	86.7	88.6	91.9	94.6	95.6	97.3	97.9	98.7	98.9	99.0	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	23.0	23.1	28.7	29.8	32.2	33.8	34.3	34.7	35.1	35.6	35.9	35.9	35.9	36.0	36.3	36.6
GE 20000	26.0	26.1	32.1	33.6	36.4	38.4	39.1	39.4	39.9	40.6	41.0	41.1	41.1	41.3	41.7	42.0
GE 18000	26.0	26.1	32.1	33.6	36.6	38.6	39.2	39.6	40.0	40.7	41.1	41.2	41.2	41.4	41.8	42.1
GE 16000	26.0	26.1	32.1	33.6	36.6	38.6	39.2	39.6	40.0	40.7	41.1	41.2	41.2	41.4	41.8	42.1
GE 14000	26.0	26.1	32.1	33.6	36.6	38.6	39.2	39.6	40.0	40.7	41.1	41.2	41.2	41.4	41.8	42.1
GE 12000	26.0	26.1	32.2	33.7	36.7	38.7	39.3	39.7	40.1	40.8	41.2	41.3	41.3	41.6	41.9	42.2
GE 10000	27.6	27.8	34.2	35.7	38.7	40.7	41.3	41.7	42.1	42.8	43.2	43.3	43.3	43.6	43.9	44.2
GE 9000	28.2	28.4	35.2	36.7	39.8	41.9	42.6	43.1	43.7	44.3	44.8	44.9	44.9	45.1	45.4	45.8
GE 8000	31.0	31.2	39.0	40.8	44.0	46.1	46.9	47.4	48.0	48.7	49.1	49.2	49.2	49.7	50.0	50.6
GE 7000	31.7	31.9	39.8	41.6	44.9	47.1	47.9	48.6	49.1	49.8	50.2	50.3	50.3	50.8	51.1	51.7
GE 6000	31.9	32.1	40.0	41.8	45.1	47.3	48.1	48.8	49.3	50.0	50.4	50.6	50.6	51.0	51.3	51.9
GE 5000	32.6	32.8	40.9	42.7	46.0	48.2	49.0	49.7	50.2	50.9	51.3	51.4	51.4	51.9	52.2	52.8
GE 4500	33.9	34.2	42.7	44.4	47.8	50.1	50.9	51.6	52.1	52.8	53.2	53.3	53.3	54.0	54.4	55.0
GE 4000	36.1	36.4	46.0	48.0	51.6	53.9	54.7	55.7	56.3	57.0	57.4	57.7	57.7	58.6	59.0	59.6
GE 3500	37.6	37.9	48.2	50.3	55.3	58.0	59.1	60.1	60.8	61.4	61.9	62.1	62.1	63.0	63.4	64.0
GE 3000	39.2	39.6	50.2	52.3	57.4	60.1	61.6	62.6	63.3	64.1	64.7	64.9	64.9	65.8	66.2	66.8
GE 2500	40.1	40.4	51.4	53.7	58.9	61.8	63.3	64.4	65.3	66.3	66.9	67.1	67.1	68.0	68.4	69.0
GE 2000	42.2	42.7	54.6	56.9	62.2	65.2	66.8	67.9	68.8	69.8	70.6	70.8	70.8	71.7	72.1	72.7
GE 1800	43.7	44.2	56.2	58.6	63.9	66.9	68.4	69.8	70.9	72.0	72.8	73.0	73.0	73.9	74.3	74.9
GE 1500	45.2	45.8	58.8	61.2	67.0	70.3	72.0	73.8	75.1	76.3	77.2	77.4	77.4	78.3	78.8	79.3
GE 1200	47.8	48.3	62.0	64.7	70.9	74.7	76.3	78.1	79.4	80.7	81.6	81.8	81.8	82.7	83.1	83.7
GE 1000	48.3	48.9	63.6	66.3	73.1	77.0	78.9	80.8	82.1	83.4	84.3	84.8	84.8	85.7	86.1	86.7
GE 900	48.8	49.3	64.7	67.6	74.3	78.3	80.3	82.2	83.6	84.9	85.8	86.2	86.2	87.1	87.6	88.1
GE 800	49.3	49.9	65.7	68.6	75.4	79.6	81.6	83.6	85.0	86.6	87.4	87.9	88.0	88.9	89.3	89.9
GE 700	49.9	50.4	66.4	69.6	77.0	81.4	83.7	85.8	87.2	88.9	89.8	90.2	90.3	91.2	91.7	92.2
GE 600	49.9	50.4	66.7	69.9	78.1	82.7	84.9	87.0	88.6	90.6	91.4	92.1	92.2	93.1	93.6	94.1
GE 500	49.9	50.4	66.8	70.0	78.7	83.2	85.7	88.0	89.7	92.0	92.9	93.6	93.7	94.6	95.0	95.6
GE 400	49.9	50.4	66.8	70.0	79.1	83.7	86.3	88.7	90.4	92.8	93.7	94.3	94.6	95.4	95.9	96.4
GE 300	49.9	50.4	66.8	70.0	79.1	83.7	86.4	88.9	90.8	93.4	94.4	95.2	95.4	96.3	96.8	97.3
GE 200	49.9	50.4	66.8	70.0	79.1	83.7	86.4	88.9	91.1	93.9	95.2	96.0	96.3	97.2	97.8	98.8
GE 100	49.9	50.4	66.8	70.0	79.1	83.7	86.4	88.9	91.2	94.0	95.3	96.1	96.4	97.4	98.2	100.0
GE 000	49.9	50.4	66.8	70.0	79.1	83.7	86.4	88.9	91.2	94.0	95.3	96.1	96.4	97.4	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	24.8	26.0	31.3	32.7	34.1	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
GE 20000	27.9	29.1	35.6	37.0	38.4	38.9	39.2	39.8	39.8	39.8	39.8	39.8	39.9	39.9	40.0	40.0
GE 18000	27.9	29.1	35.6	37.0	38.4	38.9	39.2	39.8	39.8	39.8	39.8	39.8	39.9	39.9	40.0	40.0
GE 16000	27.9	29.1	35.6	37.0	38.4	38.9	39.2	39.8	39.8	39.8	39.8	39.8	39.9	39.9	40.0	40.0
GE 14000	27.9	29.1	35.6	37.0	38.4	38.9	39.2	39.8	39.8	39.8	39.8	39.8	39.9	39.9	40.0	40.0
GE 12000	28.3	29.6	36.0	37.4	38.9	39.3	39.7	40.2	40.2	40.2	40.2	40.2	40.3	40.3	40.4	40.4
GE 10000	30.7	32.0	39.0	40.4	42.0	42.4	42.8	43.3	43.3	43.6	43.6	43.6	43.7	43.8	43.9	43.9
GE 9000	31.3	32.8	39.8	41.2	42.8	43.2	43.6	44.2	44.2	44.4	44.4	44.4	44.6	44.7	44.8	44.8
GE 8000	33.7	35.1	42.7	44.3	45.9	46.7	47.0	47.7	47.7	47.9	48.0	48.0	48.1	48.3	48.4	48.4
GE 7000	34.0	35.6	43.3	45.0	46.6	47.3	47.8	48.4	48.4	48.7	48.8	48.8	48.9	49.1	49.2	49.2
GE 6000	34.2	35.8	43.6	45.2	46.8	47.6	48.0	48.7	48.7	48.9	49.0	49.0	49.1	49.3	49.4	49.4
GE 5000	34.7	36.2	44.2	45.9	47.4	48.2	48.7	49.3	49.3	49.6	49.7	49.7	49.8	50.0	50.1	50.1
GE 4500	35.4	37.0	45.0	46.7	48.2	49.0	49.4	50.1	50.1	50.3	50.4	50.4	50.6	50.8	50.9	50.9
GE 4000	38.6	40.1	48.2	49.9	51.4	52.4	52.9	53.6	53.6	53.8	53.9	53.9	54.0	54.2	54.3	54.3
GE 3500	41.1	42.7	51.3	53.1	54.9	56.0	56.4	57.1	57.1	57.3	57.4	57.4	57.6	57.8	57.9	57.9
GE 3000	47.2	48.8	57.9	60.1	62.1	63.4	63.9	64.6	64.8	65.0	65.1	65.1	65.2	65.4	65.6	65.6
GE 2500	49.1	50.7	59.8	62.0	64.3	65.7	66.1	66.8	67.1	67.3	67.4	67.4	67.7	67.9	68.0	68.0
GE 2000	53.1	54.7	65.1	67.7	70.3	71.8	72.2	73.0	73.3	73.6	73.7	73.7	73.9	74.1	74.2	74.2
GE 1800	54.2	55.9	66.3	68.9	71.8	73.2	73.7	74.4	74.8	75.0	75.1	75.1	75.3	75.6	75.7	75.7
GE 1500	58.2	59.9	71.4	74.2	77.6	79.4	79.9	80.7	81.1	81.3	81.4	81.4	81.7	81.9	82.0	82.0
GE 1200	60.8	62.7	74.2	77.3	81.2	83.2	83.7	84.4	84.9	85.1	85.2	85.2	85.4	85.7	85.8	85.8
GE 1000	62.4	64.4	76.8	79.9	84.3	86.7	87.1	88.0	88.4	88.9	89.0	89.0	89.2	89.4	89.6	89.6
GE 900	63.0	65.0	77.7	80.9	85.4	88.0	88.6	89.7	90.4	90.9	91.0	91.0	91.2	91.4	91.6	91.6
GE 800	63.2	65.2	78.0	81.7	86.2	89.0	89.8	91.2	92.0	92.4	92.7	92.7	92.9	93.1	93.2	93.2
GE 700	63.6	65.7	79.0	82.8	87.3	90.4	91.2	92.9	93.8	94.2	94.6	94.6	94.9	95.1	95.2	95.2
GE 600	63.7	65.8	79.6	83.3	88.2	91.4	92.4	94.2	95.3	95.8	96.1	96.1	96.4	96.7	96.8	96.8
GE 500	63.7	65.8	79.8	83.7	88.7	91.9	92.9	94.8	96.2	97.0	97.3	97.3	97.7	97.9	98.0	98.0
GE 400	63.7	65.8	79.8	83.7	88.7	91.9	92.9	94.9	96.3	97.1	97.6	97.6	97.9	98.1	98.2	98.2
GE 300	63.7	65.8	79.8	83.8	88.9	92.2	93.4	95.6	97.0	97.9	98.4	98.4	98.9	99.1	99.2	99.2
GE 200	63.7	65.8	79.8	83.8	88.9	92.2	93.6	95.7	97.1	98.0	98.7	98.7	99.2	99.4	99.6	99.8
GE 100	63.7	65.8	79.8	83.8	88.9	92.2	93.6	95.7	97.1	98.0	98.7	98.7	99.2	99.4	99.7	100.0
GE 000	63.7	65.8	79.8	83.8	88.9	92.2	93.6	95.7	97.1	98.0	98.7	98.7	99.2	99.4	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	29.0	29.6	31.3	31.8	31.8	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
GE 20000	34.7	35.3	37.8	38.2	38.3	38.3	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
GE 18000	34.7	35.3	37.8	38.2	38.3	38.3	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
GE 16000	34.9	35.6	38.0	38.4	38.6	38.6	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9	38.9
GE 14000	34.9	35.6	38.0	38.4	38.6	38.7	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 12000	35.6	36.2	38.7	39.1	39.2	39.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
GE 10000	37.6	38.7	41.3	41.8	41.9	42.0	42.6	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
GE 9000	38.1	39.2	41.9	42.3	42.4	42.6	43.1	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 8000	40.8	42.1	45.1	45.6	45.7	45.9	46.4	46.7	46.7	46.7	46.8	46.8	46.8	46.8	46.8	46.8
GE 7000	41.1	42.7	45.7	46.1	46.2	46.4	47.0	47.3	47.3	47.3	47.4	47.4	47.4	47.4	47.4	47.4
GE 6000	41.1	42.7	45.7	46.1	46.2	46.4	47.0	47.3	47.3	47.3	47.4	47.4	47.4	47.4	47.4	47.4
GE 5000	41.9	43.4	46.4	46.9	47.0	47.2	47.8	48.1	48.1	48.1	48.2	48.2	48.2	48.2	48.2	48.2
GE 4500	43.2	44.8	47.9	48.3	48.4	48.7	49.2	49.6	49.6	49.6	49.7	49.7	49.7	49.7	49.7	49.7
GE 4000	47.9	49.4	52.8	53.2	53.3	53.6	54.1	54.4	54.4	54.4	54.6	54.6	54.6	54.6	54.6	54.6
GE 3500	53.7	55.2	58.9	59.3	59.7	59.9	60.4	60.8	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9
GE 3000	62.2	64.0	69.0	69.7	70.0	70.2	70.8	71.1	71.1	71.3	71.4	71.4	71.4	71.4	71.4	71.4
GE 2500	66.6	68.8	74.4	75.1	75.6	75.8	76.3	76.7	76.7	76.9	77.0	77.0	77.0	77.0	77.0	77.0
GE 2000	70.3	72.7	79.1	79.8	80.4	80.7	81.2	81.6	81.6	81.8	81.9	81.9	81.9	81.9	81.9	81.9
GE 1800	71.6	74.0	80.6	81.2	81.9	82.1	82.7	83.0	83.0	83.2	83.3	83.3	83.3	83.3	83.3	83.3
GE 1500	74.0	76.4	83.4	84.1	85.4	85.8	86.3	86.7	86.7	86.9	87.0	87.0	87.0	87.0	87.0	87.0
GE 1200	76.1	78.6	86.8	87.9	89.7	90.1	90.7	91.0	91.0	91.2	91.3	91.3	91.3	91.3	91.3	91.3
GE 1000	77.3	79.8	88.3	89.4	91.4	92.0	92.7	93.1	93.1	93.3	93.4	93.4	93.4	93.4	93.4	93.4
GE 900	77.8	80.3	89.3	90.6	92.6	93.1	94.1	94.7	94.7	94.9	95.1	95.1	95.1	95.1	95.1	95.1
GE 800	77.8	80.3	89.4	90.9	93.1	93.7	94.7	95.2	95.2	95.4	95.7	95.7	95.7	95.7	95.7	95.7
GE 700	78.2	80.8	90.1	92.0	94.7	95.3	96.3	97.2	97.2	97.4	97.7	97.7	97.7	97.7	97.7	97.7
GE 600	78.2	80.8	90.2	92.1	94.8	95.4	96.4	97.4	97.4	97.7	98.0	98.0	98.0	98.0	98.0	98.0
GE 500	78.2	80.8	90.8	92.9	95.7	96.3	97.3	98.4	98.4	98.7	99.0	99.0	99.0	99.0	99.0	99.0
GE 400	78.2	80.8	90.8	93.1	95.9	96.6	97.6	98.7	98.7	98.9	99.2	99.2	99.2	99.2	99.2	99.2
GE 300	78.2	80.8	90.8	93.1	95.9	96.6	97.6	98.7	98.9	99.1	99.4	99.4	99.4	99.4	99.6	99.6
GE 200	78.2	80.8	90.8	93.1	95.9	96.6	97.6	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.9	100.0
GE 100	78.2	80.8	90.8	93.1	95.9	96.6	97.6	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.9	100.0
GE 000	78.2	80.8	90.8	93.1	95.9	96.6	97.6	98.7	98.9	99.1	99.6	99.6	99.6	99.6	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	26.1	26.6	27.8	27.9	27.9	27.9	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
GE 20000	32.7	33.2	34.4	34.6	34.8	34.8	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
GE 18000	32.8	33.3	34.6	34.7	34.9	34.9	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
GE 16000	32.8	33.3	34.6	34.7	34.9	34.9	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
GE 14000	32.9	33.4	34.7	34.8	35.0	35.0	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
GE 12000	33.7	34.2	35.6	35.7	35.9	35.9	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
GE 10000	37.2	37.8	39.1	39.2	39.4	39.6	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
GE 9000	38.7	39.4	40.9	41.0	41.2	41.3	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8	41.8
GE 8000	42.2	43.0	44.8	45.0	45.2	45.3	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 7000	43.1	43.9	45.7	45.9	46.1	46.2	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
GE 6000	43.1	43.9	45.7	45.9	46.1	46.2	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
GE 5000	45.2	46.0	48.0	48.2	48.4	48.6	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 4500	48.1	48.9	50.9	51.1	51.3	51.4	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 4000	55.1	56.1	59.0	59.3	59.7	59.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 3500	62.1	63.2	66.7	67.1	67.6	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 3000	69.4	70.6	74.7	75.1	75.6	75.8	76.3	76.3	76.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 2500	71.9	73.3	77.6	78.0	78.6	79.0	79.6	79.6	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9
GE 2000	74.9	76.3	80.9	81.9	82.6	83.0	83.6	83.6	83.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
GE 1800	75.7	77.1	82.1	83.1	83.8	84.2	84.8	84.8	84.8	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 1500	77.8	79.3	86.1	87.2	88.3	88.8	89.7	89.7	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0
GE 1200	80.0	81.6	89.3	90.6	92.0	92.4	93.3	93.3	93.3	93.7	93.7	93.7	93.7	93.7	93.7	93.7
GE 1000	81.0	82.6	90.8	92.0	93.7	94.1	95.4	95.8	95.9	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 900	81.6	83.1	91.7	92.9	94.7	95.1	96.7	97.0	97.1	97.4	97.7	97.7	97.7	97.7	97.7	97.8
GE 800	81.7	83.2	91.9	93.1	94.9	95.3	97.0	97.3	97.4	97.8	98.0	98.0	98.0	98.0	98.0	98.1
GE 700	81.8	83.3	92.0	93.2	95.1	95.6	97.2	97.6	97.7	98.1	98.3	98.3	98.3	98.3	98.3	98.4
GE 600	81.8	83.3	92.0	93.3	95.2	95.7	97.4	98.1	98.2	98.7	98.9	98.9	98.9	98.9	98.9	99.0
GE 500	81.9	83.4	92.4	93.8	95.7	96.1	98.1	98.8	98.9	99.3	99.6	99.6	99.6	99.6	99.6	99.7
GE 400	81.9	83.4	92.4	93.8	95.7	96.1	98.1	98.8	98.9	99.3	99.6	99.6	99.6	99.6	99.6	99.7
GE 300	81.9	83.4	92.4	93.8	95.7	96.1	98.1	98.8	98.9	99.3	99.6	99.6	99.6	99.6	99.6	99.7
GE 200	81.9	83.4	92.6	93.9	95.8	96.2	98.2	98.9	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0
GE 100	81.9	83.4	92.6	93.9	95.8	96.2	98.2	98.9	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0
GE 000	81.9	83.4	92.6	93.9	95.8	96.2	98.2	98.9	99.0	99.4	99.7	99.7	99.7	99.7	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	34.9	35.8	37.6	37.7	37.8	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
GE 20000	42.3	43.6	45.7	46.1	46.2	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 18000	42.3	43.6	45.7	46.1	46.2	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 16000	42.3	43.6	45.7	46.1	46.2	46.4	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
GE 14000	42.4	43.7	45.8	46.2	46.3	46.6	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
GE 12000	43.2	44.6	46.7	47.1	47.2	47.4	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6	47.6
GE 10000	46.4	47.8	50.1	50.8	50.9	51.1	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 9000	47.0	48.7	51.3	52.0	52.2	52.4	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
GE 8000	50.8	52.6	55.6	56.3	56.6	57.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
GE 7000	52.2	54.0	57.0	57.8	58.2	58.7	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 6000	53.2	55.0	58.0	58.8	59.2	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 5000	54.9	56.7	59.9	60.7	61.1	61.6	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 4500	57.8	59.6	62.8	63.8	64.2	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
GE 4000	63.8	65.9	69.7	70.7	71.2	71.8	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
GE 3500	67.1	69.4	73.3	74.3	74.9	75.6	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 3000	72.1	74.7	78.6	79.7	80.3	81.0	81.7	81.8	81.8	82.1	82.3	82.3	82.3	82.3	82.3	82.3
GE 2500	73.4	76.1	80.3	81.6	82.3	83.0	83.8	83.9	83.9	84.2	84.4	84.4	84.4	84.4	84.4	84.4
GE 2000	75.4	78.1	82.9	84.4	85.3	86.3	87.1	87.3	87.3	87.7	87.9	87.9	87.9	87.9	87.9	87.9
GE 1800	75.9	78.6	83.3	84.9	85.8	86.8	87.6	87.8	87.8	88.1	88.3	88.3	88.3	88.3	88.3	88.3
GE 1500	76.8	79.4	85.1	86.8	88.0	89.0	89.9	90.1	90.1	90.4	90.7	90.7	90.7	90.7	90.7	90.7
GE 1200	77.3	80.0	86.8	88.6	90.0	91.1	92.0	92.2	92.3	92.7	92.9	92.9	92.9	92.9	92.9	92.9
GE 1000	77.9	80.6	87.7	89.4	91.0	92.1	93.2	93.7	93.8	94.2	94.4	94.4	94.4	94.4	94.4	94.4
GE 900	78.6	81.2	88.7	90.4	92.0	93.1	94.2	94.8	94.9	95.3	95.6	95.6	95.6	95.6	95.6	95.6
GE 800	78.7	81.3	88.8	90.6	92.4	93.6	94.7	95.2	95.3	95.8	96.0	96.0	96.0	96.0	96.0	96.0
GE 700	78.7	81.3	88.9	90.7	92.7	93.8	94.9	95.6	95.8	96.4	96.7	96.7	96.7	96.7	96.7	96.7
GE 600	78.8	81.4	89.2	91.1	93.1	94.2	95.3	96.0	96.2	97.2	97.4	97.4	97.4	97.4	97.4	97.4
GE 500	78.8	81.4	89.3	91.2	93.4	94.7	96.0	97.0	97.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4
GE 400	79.0	81.7	89.6	91.4	93.7	94.9	96.3	97.4	97.7	98.7	98.9	99.1	99.1	99.1	99.1	99.1
GE 300	79.0	81.7	89.6	91.4	93.7	94.9	96.3	97.7	97.9	99.0	99.4	99.7	99.7	99.7	99.7	99.7
GE 200	79.0	81.7	89.6	91.4	93.7	94.9	96.3	97.7	97.9	99.0	99.4	99.7	99.7	99.9	99.9	99.9
GE 100	79.0	81.7	89.6	91.4	93.7	94.9	96.3	97.7	97.9	99.0	99.4	99.8	99.8	100.0	100.0	100.0
GE 000	79.0	81.7	89.6	91.4	93.7	94.9	96.3	97.7	97.9	99.0	99.4	99.8	99.8	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

D - 2 - 34

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	42.7	43.6	45.7	46.6	46.7	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 20000	48.7	49.8	52.0	53.0	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 18000	48.7	49.8	52.0	53.0	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 16000	48.7	49.8	52.0	53.0	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 14000	48.7	49.8	52.0	53.0	53.2	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 12000	49.2	50.3	52.6	53.6	53.8	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 10000	52.4	53.6	55.8	56.8	57.0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 9000	53.4	54.6	57.2	58.3	58.6	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 8000	56.8	57.9	60.9	62.0	62.2	62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 7000	57.4	58.6	61.7	62.8	63.1	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 6000	57.8	58.9	62.0	63.1	63.4	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 5000	59.6	60.7	63.8	64.9	65.2	65.7	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
GE 4500	62.8	64.0	67.2	68.3	68.7	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
GE 4000	66.7	68.1	71.4	72.7	73.0	73.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
GE 3500	70.9	72.6	76.1	77.3	77.8	78.2	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 3000	73.9	75.7	79.7	81.0	81.6	82.0	82.1	82.2	82.3	82.3	82.4	82.4	82.4	82.4	82.4	82.4
GE 2500	75.9	77.7	82.0	83.3	83.9	84.3	84.4	84.6	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8
GE 2000	77.4	79.2	83.7	85.0	85.6	86.2	86.6	86.7	86.8	86.8	86.9	86.9	86.9	86.9	86.9	86.9
GE 1800	77.7	79.4	83.9	85.2	86.0	86.7	87.0	87.1	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3
GE 1500	79.7	81.4	86.6	87.9	88.7	89.3	89.8	89.9	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1
GE 1200	80.4	82.2	88.2	89.8	90.8	91.7	92.3	92.4	92.7	92.7	92.8	92.8	92.8	92.8	92.8	92.8
GE 1000	80.7	82.4	88.8	90.3	91.7	92.6	93.3	93.4	93.8	93.8	93.9	93.9	93.9	93.9	93.9	93.9
GE 900	81.0	82.9	89.2	90.8	92.2	93.1	93.9	94.0	94.3	94.3	94.4	94.4	94.4	94.4	94.4	94.4
GE 800	81.1	83.0	89.4	91.0	92.6	93.7	94.7	94.8	95.1	95.4	95.7	95.7	95.7	95.7	95.7	95.7
GE 700	81.4	83.3	89.9	91.4	93.0	94.1	95.2	95.4	96.0	96.3	96.7	96.7	96.7	96.7	96.7	96.7
GE 600	81.7	83.6	90.2	91.8	93.4	94.6	95.8	96.2	96.9	97.6	97.9	97.9	97.9	97.9	97.9	97.9
GE 500	81.7	83.6	90.2	91.9	93.8	94.9	96.1	96.7	97.3	98.0	98.3	98.3	98.3	98.3	98.3	98.3
GE 400	81.8	83.7	90.3	92.0	93.9	95.0	96.4	97.1	97.9	98.6	99.0	99.0	99.0	99.0	99.0	99.0
GE 300	81.8	83.7	90.3	92.0	93.9	95.0	96.4	97.1	97.9	98.7	99.2	99.2	99.2	99.2	99.2	99.2
GE 200	81.8	83.7	90.3	92.0	93.9	95.0	96.4	97.1	97.9	98.9	99.4	99.4	99.4	100.0	100.0	100.0
GE 100	81.8	83.7	90.3	92.0	93.9	95.0	96.4	97.1	97.9	98.9	99.4	99.4	99.4	100.0	100.0	100.0
GE 000	81.8	83.7	90.3	92.0	93.9	95.0	96.4	97.1	97.9	98.9	99.4	99.4	99.4	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

D - 2 - 35

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: APR HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	31.6	32.4	35.3	36.0	36.9	37.2	37.5	37.6	37.7	37.8	37.9	37.9	37.9	37.9	38.0	38.0
GE 20000	36.5	37.4	40.9	41.7	42.8	43.2	43.6	43.9	44.0	44.1	44.2	44.2	44.2	44.2	44.4	44.4
GE 18000	36.5	37.4	40.9	41.8	42.9	43.3	43.7	44.0	44.1	44.2	44.2	44.2	44.3	44.3	44.4	44.5
GE 16000	36.5	37.4	40.9	41.8	42.9	43.3	43.7	44.0	44.1	44.2	44.3	44.3	44.3	44.3	44.4	44.5
GE 14000	36.6	37.4	40.9	41.8	42.9	43.3	43.7	44.0	44.1	44.2	44.3	44.3	44.3	44.4	44.5	44.5
GE 12000	37.0	37.9	41.4	42.3	43.4	43.8	44.2	44.5	44.6	44.7	44.8	44.8	44.8	44.8	45.0	45.0
GE 10000	39.5	40.5	44.2	45.1	46.2	46.6	47.1	47.4	47.5	47.6	47.7	47.7	47.7	47.8	47.9	47.9
GE 9000	40.2	41.2	45.2	46.1	47.3	47.8	48.2	48.6	48.7	48.9	48.9	48.9	48.9	49.0	49.1	49.1
GE 8000	43.2	44.3	48.6	49.6	50.8	51.5	52.0	52.4	52.5	52.6	52.7	52.8	52.8	52.9	53.0	53.1
GE 7000	43.7	44.9	49.2	50.3	51.5	52.2	52.8	53.2	53.3	53.5	53.5	53.6	53.6	53.7	53.8	53.9
GE 6000	44.0	45.1	49.5	50.6	51.8	52.5	53.1	53.5	53.6	53.8	53.8	53.9	53.9	54.0	54.1	54.2
GE 5000	45.3	46.4	51.0	52.0	53.3	53.9	54.6	55.0	55.1	55.3	55.3	55.4	55.4	55.5	55.6	55.7
GE 4500	47.3	48.5	53.2	54.3	55.6	56.2	56.9	57.2	57.4	57.5	57.6	57.7	57.7	57.8	58.0	58.0
GE 4000	51.9	53.2	58.4	59.6	61.0	61.7	62.3	62.8	62.9	63.1	63.2	63.2	63.3	63.4	63.5	63.6
GE 3500	55.6	57.0	62.6	63.9	65.7	66.5	67.2	67.7	67.9	68.0	68.1	68.2	68.2	68.3	68.5	68.6
GE 3000	60.2	61.7	67.9	69.3	71.2	72.1	72.9	73.3	73.6	73.9	74.0	74.1	74.1	74.2	74.4	74.5
GE 2500	62.2	63.8	70.4	71.8	73.8	74.8	75.6	76.1	76.3	76.6	76.8	76.9	76.9	77.0	77.2	77.3
GE 2000	64.7	66.4	73.5	75.1	77.3	78.4	79.2	79.7	80.0	80.3	80.5	80.6	80.6	80.7	80.9	81.0
GE 1800	65.6	67.3	74.5	76.1	78.5	79.6	80.4	81.0	81.3	81.6	81.8	81.8	81.9	82.0	82.2	82.3
GE 1500	67.8	69.6	77.6	79.3	81.9	83.1	84.1	84.7	85.1	85.4	85.6	85.7	85.7	85.9	86.1	86.1
GE 1200	69.4	71.2	80.0	81.8	84.8	86.2	87.1	87.8	88.2	88.5	88.7	88.8	88.8	89.0	89.1	89.2
GE 1000	70.6	72.4	81.7	83.6	86.9	88.3	89.5	90.2	90.7	91.1	91.3	91.4	91.5	91.6	91.8	91.8
GE 900	71.1	72.9	82.5	84.4	87.8	89.3	90.6	91.5	92.0	92.4	92.6	92.7	92.8	92.9	93.1	93.2
GE 800	71.3	73.2	83.0	85.1	88.6	90.1	91.5	92.4	93.0	93.5	93.8	93.9	93.9	94.1	94.3	94.3
GE 700	71.6	73.4	83.4	85.6	89.3	90.9	92.4	93.5	94.1	94.7	95.0	95.1	95.1	95.3	95.4	95.5
GE 600	71.6	73.5	83.6	85.9	89.8	91.5	93.1	94.2	94.9	95.7	96.0	96.1	96.2	96.3	96.5	96.6
GE 500	71.7	73.5	83.9	86.2	90.3	92.0	93.8	95.1	95.8	96.7	97.1	97.2	97.3	97.4	97.6	97.7
GE 400	71.7	73.6	84.0	86.4	90.6	92.3	94.2	95.5	96.3	97.3	97.6	97.8	97.9	98.0	98.2	98.3
GE 300	71.7	73.6	84.0	86.4	90.6	92.4	94.4	95.9	96.7	97.8	98.2	98.5	98.6	98.7	98.9	99.0
GE 200	71.7	73.6	84.0	86.4	90.7	92.4	94.5	95.9	96.8	98.0	98.5	98.7	98.9	99.3	99.5	99.7
GE 100	71.7	73.6	84.0	86.4	90.7	92.4	94.5	95.9	96.8	98.0	98.5	98.8	98.9	99.3	99.6	100.0
GE 000	71.7	73.6	84.0	86.4	90.7	92.4	94.5	95.9	96.8	98.0	98.5	98.8	98.9	99.3	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 7199

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	41.3	42.0	44.3	44.5	45.4	45.4	45.8	45.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 20000	46.0	46.9	49.4	49.8	50.6	50.6	51.1	51.1	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3
GE 18000	46.0	46.9	49.4	49.8	50.6	50.6	51.1	51.1	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3
GE 16000	46.0	46.9	49.4	49.8	50.6	50.6	51.1	51.1	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3
GE 14000	46.0	46.9	49.4	49.8	50.6	50.6	51.1	51.1	51.2	51.2	51.3	51.3	51.3	51.3	51.3	51.3
GE 12000	46.1	47.0	49.5	49.9	50.9	51.0	51.4	51.4	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.6
GE 10000	49.5	50.3	53.3	53.9	55.1	55.3	55.7	55.7	55.8	55.9	56.0	56.0	56.0	56.0	56.0	56.0
GE 9000	50.1	51.0	54.1	54.6	56.0	56.2	56.7	56.7	56.8	57.0	57.1	57.1	57.1	57.1	57.1	57.1
GE 8000	55.2	56.3	59.7	60.2	61.6	61.8	62.3	62.3	62.4	62.6	62.7	62.7	62.7	62.7	62.7	62.7
GE 7000	55.6	56.8	60.1	60.6	62.0	62.3	62.7	62.7	62.8	63.0	63.1	63.1	63.1	63.1	63.1	63.1
GE 6000	55.9	57.1	60.4	61.0	62.4	62.6	63.0	63.0	63.1	63.3	63.4	63.4	63.4	63.4	63.4	63.4
GE 5000	58.7	60.2	63.7	64.2	65.6	65.8	66.3	66.3	66.5	66.7	66.8	66.8	66.8	66.8	66.8	66.8
GE 4500	60.6	62.2	65.8	66.3	68.0	68.4	68.9	69.0	69.1	69.4	69.5	69.5	69.5	69.5	69.5	69.5
GE 4000	64.4	66.1	70.8	71.3	73.2	73.7	74.3	74.4	74.5	74.7	74.8	74.8	74.8	74.8	74.8	74.8
GE 3500	67.4	69.1	74.2	75.1	77.1	77.6	78.4	78.5	78.6	78.8	78.9	78.9	78.9	78.9	78.9	78.9
GE 3000	70.1	72.0	78.2	79.0	81.3	82.0	82.9	83.0	83.1	83.4	83.5	83.7	83.7	83.7	83.7	83.7
GE 2500	70.5	72.5	78.7	79.6	81.8	82.6	83.4	83.5	83.7	84.0	84.1	84.2	84.2	84.2	84.2	84.2
GE 2000	71.8	73.9	80.1	81.0	83.3	84.1	84.9	85.1	85.2	85.5	85.6	85.7	85.7	85.7	85.7	85.7
GE 1800	72.7	74.7	81.0	81.8	84.2	84.9	85.8	85.9	86.0	86.3	86.5	86.6	86.6	86.6	86.6	86.6
GE 1500	75.2	77.2	83.7	84.6	87.3	88.2	89.1	89.2	89.4	89.7	89.8	89.9	89.9	89.9	89.9	89.9
GE 1200	76.6	78.7	85.6	86.8	89.6	90.4	91.4	91.5	91.6	91.9	92.0	92.3	92.3	92.3	92.3	92.3
GE 1000	77.4	79.6	86.9	88.4	91.5	92.6	93.5	93.8	93.9	94.2	94.3	94.5	94.5	94.5	94.5	94.5
GE 900	77.5	79.7	87.1	88.8	92.0	93.1	94.4	94.6	94.7	95.1	95.2	95.4	95.4	95.4	95.4	95.4
GE 800	77.6	79.8	87.4	89.4	92.8	94.0	95.3	95.5	95.6	95.9	96.0	96.2	96.2	96.2	96.2	96.2
GE 700	77.6	79.8	87.7	90.1	93.7	94.8	96.1	96.3	96.6	96.9	97.0	97.2	97.2	97.2	97.2	97.2
GE 600	77.7	79.9	88.1	90.5	94.2	95.8	97.1	97.4	97.7	98.1	98.2	98.4	98.4	98.6	98.6	98.6
GE 500	77.8	80.0	88.2	90.6	94.4	96.0	97.3	97.6	98.0	98.5	98.6	98.8	98.8	99.0	99.0	99.0
GE 400	77.8	80.0	88.2	90.6	94.4	96.0	97.5	97.8	98.2	98.8	98.9	99.1	99.1	99.4	99.4	99.5
GE 300	77.8	80.0	88.2	90.6	94.5	96.1	97.6	98.1	98.4	99.0	99.1	99.4	99.4	99.6	99.6	99.7
GE 200	77.8	80.0	88.2	90.6	94.5	96.1	97.6	98.1	98.4	99.0	99.1	99.4	99.4	99.6	99.6	99.7
GE 100	77.8	80.0	88.2	90.6	94.5	96.1	97.6	98.1	98.4	99.0	99.1	99.4	99.5	99.7	99.9	100.0
GE 000	77.8	80.0	88.2	90.6	94.5	96.1	97.6	98.1	98.4	99.0	99.1	99.4	99.5	99.7	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	34.6	35.5	39.5	40.2	41.6	41.6	41.8	42.4	42.6	43.0	43.0	43.0	43.2	43.3	43.5	43.7
GE 20000	37.2	38.1	42.4	43.3	44.7	44.7	44.9	45.5	45.7	46.2	46.2	46.2	46.5	46.6	46.8	46.9
GE 18000	37.2	38.1	42.4	43.3	44.7	44.7	44.9	45.5	45.7	46.2	46.2	46.2	46.5	46.6	46.8	46.9
GE 16000	37.2	38.1	42.4	43.3	44.7	44.7	44.9	45.5	45.7	46.2	46.2	46.2	46.5	46.6	46.8	46.9
GE 14000	37.2	38.1	42.4	43.3	44.7	44.7	44.9	45.5	45.7	46.2	46.2	46.2	46.5	46.6	46.8	46.9
GE 12000	37.2	38.1	42.4	43.3	44.7	44.7	44.9	45.5	45.7	46.2	46.2	46.2	46.5	46.6	46.8	46.9
GE 10000	40.2	41.2	46.0	47.2	48.7	48.7	49.2	49.8	50.0	50.5	50.6	50.6	51.0	51.1	51.3	51.4
GE 9000	40.8	41.7	46.7	47.8	49.5	49.5	50.1	50.6	50.9	51.4	51.5	51.5	51.8	51.9	52.2	52.3
GE 8000	44.9	46.3	51.7	52.9	54.5	54.5	55.3	55.9	56.1	56.7	56.8	56.8	57.1	57.2	57.4	57.5
GE 7000	45.4	46.9	52.4	53.5	55.4	55.4	56.1	56.8	57.0	57.5	57.6	57.6	58.0	58.1	58.3	58.4
GE 6000	45.8	47.3	52.8	54.0	55.8	55.8	56.6	57.2	57.4	58.0	58.2	58.2	58.5	58.6	58.8	58.9
GE 5000	47.8	49.4	55.3	56.5	58.4	58.4	59.1	59.8	60.0	60.5	60.8	60.8	61.1	61.2	61.4	61.5
GE 4500	49.4	50.9	56.9	58.2	60.2	60.2	61.2	61.8	62.0	62.6	62.8	62.8	63.1	63.2	63.4	63.5
GE 4000	52.4	53.9	60.6	61.9	64.3	64.4	65.5	66.2	66.6	67.1	67.3	67.3	67.6	67.7	68.0	68.1
GE 3500	54.7	56.2	63.4	65.1	67.6	67.8	69.2	70.1	70.4	71.0	71.2	71.2	71.6	71.7	72.0	72.2
GE 3000	56.8	58.3	66.0	67.8	70.4	70.8	72.5	73.4	73.[illegible]	74.3	74.5	74.5	74.9	75.1	75.4	75.5
GE 2500	57.4	58.9	67.0	68.8	71.5	71.8	73.5	74.5	74.9	75.5	75.7	75.7	76.1	76.2	76.6	76.7
GE 2000	59.6	61.3	69.7	71.6	74.3	74.7	76.5	77.4	77.8	78.5	78.7	78.7	79.1	79.2	79.6	79.7
GE 1800	60.0	61.7	70.3	72.5	75.2	75.6	77.4	78.4	78.8	79.5	79.7	79.7	80.1	80.2	80.5	80.6
GE 1500	62.0	63.9	73.1	75.3	78.0	78.4	80.2	81.5	82.0	82.7	82.9	82.9	83.3	83.4	83.8	83.9
GE 1200	64.0	65.8	75.7	78.0	80.8	81.3	83.2	84.6	85.2	85.8	86.0	86.0	86.5	86.6	86.9	87.0
GE 1000	64.9	66.8	77.1	79.9	83.1	83.8	85.8	87.5	88.1	88.7	88.9	89.0	89.5	89.6	89.9	90.0
GE 900	65.2	67.0	77.4	80.3	83.8	84.4	86.6	88.3	88.8	89.5	89.7	89.8	90.2	90.4	90.8	90.9
GE 800	65.9	67.7	78.4	81.4	84.8	85.5	87.7	89.5	90.0	90.6	90.9	91.0	91.4	91.6	91.9	92.0
GE 700	66.1	68.0	78.7	81.7	85.2	85.8	88.1	89.8	90.3	91.1	91.3	91.4	92.0	92.3	92.6	92.7
GE 600	66.6	68.5	79.2	82.3	86.2	86.9	89.4	91.2	91.7	92.6	92.9	93.0	93.7	93.9	94.2	94.4
GE 500	66.7	68.6	79.5	82.6	86.9	87.6	90.2	92.0	92.7	94.0	94.3	94.6	95.3	95.5	95.8	96.0
GE 400	66.7	68.6	79.6	82.8	87.2	88.0	90.6	92.7	93.3	94.7	95.3	95.9	96.6	96.8	97.1	97.3
GE 300	66.7	68.6	79.6	82.8	87.2	88.1	90.9	93.2	94.0	95.6	96.1	96.8	97.4	97.7	98.1	98.3
GE 200	66.7	68.6	79.6	82.8	87.2	88.1	90.9	93.3	94.1	95.7	96.6	97.2	97.8	98.2	98.6	98.9
GE 100	66.7	68.6	79.6	82.8	87.2	88.1	90.9	93.3	94.1	95.7	96.6	97.2	97.8	98.6	99.1	100.0
GE 000	66.7	68.6	79.6	82.8	87.2	88.1	90.9	93.3	94.1	95.7	96.6	97.2	97.8	98.6	99.1	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	27.5	27.7	32.0	33.1	35.2	35.7	36.1	36.3	36.3	36.3	36.3	36.3	36.5	36.6	36.7	36.7
GE 20000	29.[illegible]	29.9	35.2	36.2	38.7	39.5	40.1	40.6	40.8	40.9	41.0	41.0	41.1	41.3	41.4	41.5
GE 18000	30.0	30.2	35.6	36.7	39.1	39.9	40.5	41.1	41.2	41.3	41.4	41.4	41.5	41.7	41.8	41.9
GE 16000	30.0	30.2	35.6	36.7	39.1	39.9	40.5	41.1	41.2	41.3	41.4	41.4	41.5	41.7	41.8	41.9
GE 14000	30.1	30.3	35.7	36.8	39.2	40.0	40.6	41.2	41.3	41.4	41.5	41.5	41.6	41.8	41.9	42.0
GE 12000	30.8	31.0	36.5	37.5	40.0	40.8	41.4	41.9	42.0	42.2	42.3	42.3	42.4	42.6	42.7	42.8
GE 10000	32.8	33.0	38.9	40.1	42.9	43.7	44.3	44.9	45.1	45.2	45.3	45.4	45.5	45.7	45.8	45.9
GE 9000	33.8	34.1	40.8	41.9	45.2	45.9	46.7	47.3	47.4	47.5	47.6	47.7	47.8	48.1	48.2	48.3
GE 8000	37.2	37.7	44.8	46.3	49.8	50.6	51.5	52.2	52.3	52.4	52.5	52.6	52.7	52.9	53.0	53.1
GE 7000	37.5	38.1	45.5	47.2	50.6	51.5	52.5	53.1	53.2	53.3	53.4	53.5	53.7	53.9	54.0	54.1
GE 6000	37.7	38.3	46.1	48.0	51.4	52.3	53.2	53.9	54.0	54.1	54.2	54.3	54.4	54.6	54.8	54.9
GE 5000	39.5	40.0	48.2	50.0	53.5	54.6	55.7	56.3	56.5	56.6	56.7	56.8	56.9	57.1	57.3	57.4
GE 4500	40.8	41.4	49.7	51.6	55.4	56.5	57.6	58.4	58.5	58.6	58.7	58.8	59.0	59.2	59.5	59.6
GE 4000	42.5	43.1	52.5	54.4	58.5	59.7	60.9	61.6	61.9	62.0	62.2	62.3	62.6	62.8	63.2	63.3
GE 3500	44.3	44.9	55.1	57.0	61.1	62.3	63.4	64.2	64.5	64.6	64.9	65.1	65.4	65.8	66.2	66.3
GE 3000	46.0	46.7	57.5	59.7	64.0	65.3	66.9	68.0	68.3	68.6	68.9	69.0	69.4	69.8	70.2	70.3
GE 2500	47.1	47.7	59.0	61.2	65.5	66.8	68.5	69.7	70.1	70.8	71.2	71.3	71.6	72.0	72.5	72.6
GE 2000	48.8	49.5	61.3	63.5	67.8	69.1	71.0	72.3	72.7	73.4	73.9	74.0	74.3	74.7	75.2	75.3
GE 1800	49.5	50.1	62.5	64.7	69.0	70.4	72.3	73.5	74.0	74.7	75.2	75.3	75.6	76.0	76.5	76.6
GE 1500	53.1	53.9	67.5	69.8	74.7	76.1	78.0	79.5	79.9	80.8	81.2	81.3	81.6	82.0	82.5	82.6
GE 1200	55.1	55.9	70.3	72.6	77.6	79.2	81.2	82.8	83.3	84.2	84.6	84.7	85.1	85.5	85.9	86.0
GE 1000	56.7	57.6	72.8	75.5	80.5	82.4	84.9	86.9	87.4	88.4	89.0	89.1	89.6	90.0	90.4	90.5
GE 900	56.7	57.6	72.8	75.6	81.1	83.0	85.6	87.6	88.4	89.5	90.2	90.3	90.8	91.2	91.6	91.7
GE 800	56.8	57.7	73.3	76.1	81.6	83.5	86.1	88.2	88.9	90.0	90.8	90.9	91.3	91.7	92.2	92.3
GE 700	57.5	58.5	74.4	77.2	83.0	84.9	87.8	90.0	90.8	91.8	92.6	92.8	93.2	93.7	94.1	94.2
GE 600	58.2	59.1	75.3	78.2	84.2	86.6	89.5	91.6	92.4	93.5	94.3	94.5	94.9	95.4	95.8	95.9
GE 500	58.6	59.6	76.0	78.9	85.2	87.5	90.8	93.0	93.8	94.9	95.7	95.9	96.3	96.8	97.2	97.3
GE 400	59.0	60.0	76.6	79.6	85.8	88.2	91.5	94.0	94.8	96.1	97.0	97.2	97.6	98.2	98.6	98.8
GE 300	59.0	60.0	76.6	79.6	85.9	88.3	91.7	94.3	95.2	96.5	97.4	97.6	98.1	98.6	99.0	99.2
GE 200	59.0	60.0	76.6	79.6	85.9	88.3	91.7	94.5	95.4	96.7	97.6	98.0	98.4	98.9	99.5	99.7
GE 100	59.0	60.0	76.6	79.6	85.9	88.3	91.7	94.5	95.4	96.7	97.6	98.0	98.4	99.0	99.7	100.0
GE 000	59.0	60.0	76.6	79.6	85.9	88.3	91.7	94.5	95.4	96.7	97.6	98.0	98.4	99.0	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	30.5	31.4	34.2	34.7	35.1	35.2	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
GE 20000	35.3	36.2	39.8	40.6	41.0	41.1	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 18000	35.3	36.2	39.8	40.6	41.0	41.1	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 16000	35.3	36.2	39.8	40.6	41.0	41.1	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 14000	35.3	36.2	39.8	40.6	41.0	41.1	41.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 12000	35.7	36.7	40.4	41.3	41.6	41.7	41.8	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
GE 10000	36.9	37.8	42.3	43.2	43.7	43.8	43.9	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
GE 9000	38.3	39.2	43.9	44.8	45.3	45.4	45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 8000	40.5	41.5	46.6	47.5	48.2	48.4	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
GE 7000	41.1	42.0	47.5	48.5	49.2	49.5	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
GE 6000	41.2	42.2	47.6	48.6	49.4	49.6	49.7	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
GE 5000	42.3	43.2	49.1	50.2	51.1	51.3	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
GE 4500	43.0	44.0	50.0	51.1	52.2	52.4	52.5	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 4000	46.5	47.4	53.7	54.9	56.2	56.5	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
GE 3500	49.7	50.6	57.1	58.5	60.0	60.2	60.4	60.6	60.8	60.8	60.9	60.9	60.9	60.9	60.9	60.9
GE 3000	56.0	57.1	63.9	65.4	66.9	67.2	67.5	67.7	67.9	68.0	68.1	68.1	68.1	68.1	68.1	68.1
GE 2500	59.1	60.3	67.3	68.8	70.6	71.2	71.5	71.7	71.8	71.9	72.0	72.0	72.0	72.0	72.0	72.0
GE 2000	63.0	64.3	72.2	73.9	75.7	76.3	76.8	77.1	77.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4
GE 1800	63.5	64.9	73.2	74.9	76.8	77.4	77.8	78.2	78.3	78.4	78.5	78.5	78.5	78.5	78.5	78.5
GE 1500	68.9	70.8	79.8	81.6	83.9	84.6	85.3	85.7	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0
GE 1200	71.9	73.8	83.7	85.7	88.4	89.1	90.0	90.5	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1
GE 1000	73.8	75.6	85.7	87.8	91.0	91.8	93.1	93.7	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3
GE 900	74.2	76.0	86.5	88.7	92.5	93.4	94.7	95.4	95.9	96.1	96.2	96.2	96.2	96.2	96.2	96.2
GE 800	74.2	76.0	86.8	89.0	93.0	94.0	95.3	96.0	96.6	96.8	96.9	96.9	96.9	96.9	96.9	96.9
GE 700	74.4	76.2	87.0	89.6	93.8	95.1	96.3	97.1	97.6	97.8	98.0	98.0	98.0	98.0	98.0	98.0
GE 600	74.5	76.3	87.3	89.9	94.2	95.5	96.9	97.6	98.2	98.4	98.5	98.5	98.5	98.5	98.5	98.5
GE 500	74.7	76.6	87.7	90.3	94.6	96.0	97.5	98.4	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2
GE 400	74.7	76.6	87.8	90.4	94.7	96.1	97.7	98.6	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5
GE 300	74.8	76.7	88.0	90.5	94.8	96.2	97.8	98.7	99.2	99.5	99.6	99.6	99.6	99.6	99.6	99.6
GE 200	74.8	76.7	88.1	90.6	94.9	96.3	98.0	98.8	99.4	99.6	99.7	99.7	99.7	100.0	100.0	100.0
GE 100	74.8	76.7	88.1	90.6	94.9	96.3	98.0	98.8	99.4	99.6	99.7	99.7	99.7	100.0	100.0	100.0
GE 000	74.8	76.7	88.1	90.6	94.9	96.3	98.0	98.8	99.4	99.6	99.7	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	28.2	29.1	29.7	29.7	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 20000	35.3	36.5	37.1	37.1	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
GE 18000	35.5	36.7	37.3	37.3	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 16000	35.5	36.7	37.3	37.3	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 14000	35.5	36.7	37.3	37.3	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 12000	36.1	37.3	38.0	38.0	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
GE 10000	38.4	39.8	40.8	40.8	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 9000	39.2	40.6	41.7	41.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
GE 8000	42.2	43.5	44.6	44.6	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
GE 7000	43.3	44.7	46.1	46.1	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
GE 6000	43.7	45.1	46.5	46.5	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
GE 5000	45.2	46.6	48.3	48.4	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 4500	47.0	48.6	50.6	50.8	51.3	51.3	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
GE 4000	51.3	52.9	55.4	55.5	56.0	56.0	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 3500	59.1	60.9	63.8	63.9	64.5	64.5	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 3000	68.0	69.8	73.1	73.2	74.0	74.0	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 2500	73.0	75.1	78.7	78.9	79.9	79.9	80.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
GE 2000	78.3	80.3	84.7	85.2	86.3	86.3	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 1800	80.2	82.3	87.2	87.6	88.8	88.8	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 1500	82.8	84.8	90.0	90.4	91.8	91.8	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
GE 1200	85.4	87.4	92.9	93.3	94.8	95.2	95.5	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1000	86.3	88.4	94.3	94.7	96.6	96.9	97.2	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 900	86.7	88.7	94.7	95.2	97.2	97.5	97.8	98.0	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 800	87.0	89.0	95.2	95.6	97.6	98.0	98.3	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
GE 700	87.1	89.1	95.5	95.9	98.0	98.4	98.7	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	87.1	89.1	95.5	95.9	98.0	98.4	98.9	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 500	87.3	89.4	95.7	96.1	98.2	98.6	99.1	99.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 400	87.3	89.4	95.7	96.1	98.2	98.6	99.1	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	87.3	89.4	95.7	96.1	98.2	98.6	99.2	99.5	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	87.3	89.4	95.7	96.1	98.2	98.6	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	87.3	89.4	95.7	96.1	98.2	98.6	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	87.3	89.4	95.7	96.1	98.2	98.6	99.2	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	27.6	28.2	28.6	28.7	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
GE 20000	34.6	35.8	36.6	36.7	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
GE 18000	35.2	36.3	37.1	37.2	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 16000	35.2	36.3	37.1	37.2	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 14000	35.4	36.6	37.3	37.4	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
GE 12000	35.9	37.1	37.8	38.0	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
GE 10000	40.1	41.4	42.4	42.7	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 9000	41.2	42.6	43.5	43.9	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 8000	44.9	46.3	47.4	47.7	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 7000	45.7	47.1	48.2	48.5	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 6000	46.2	47.6	48.7	49.0	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
GE 5000	48.8	50.2	51.6	51.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
GE 4500	51.4	52.8	54.5	54.8	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
GE 4000	60.4	62.3	64.1	64.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
GE 3500	70.1	72.5	74.6	75.1	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
GE 3000	77.5	80.1	82.5	83.0	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
GE 2500	81.5	84.1	86.7	87.5	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 2000	84.9	87.5	90.8	91.7	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1800	86.2	88.8	92.0	93.0	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
GE 1500	87.5	90.1	93.5	94.5	95.5	95.5	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1200	89.1	91.7	95.6	96.6	97.5	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 1000	89.6	92.2	96.2	97.5	98.9	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 900	89.6	92.2	96.3	97.6	99.0	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 800	89.6	92.2	96.3	97.7	99.1	99.1	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 700	89.6	92.2	96.5	97.8	99.4	99.4	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 600	89.6	92.2	96.5	98.0	99.5	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 500	89.6	92.2	96.5	98.0	99.5	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	89.6	92.2	96.5	98.0	99.5	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	89.6	92.2	96.5	98.0	99.5	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	89.6	92.2	96.5	98.0	99.5	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	89.6	92.2	96.5	98.0	99.5	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	89.6	92.2	96.5	98.0	99.5	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	36.1	37.2	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
GE 20000	44.7	46.0	47.0	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 18000	44.8	46.1	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 16000	44.8	46.1	47.1	47.1	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2	47.2
GE 14000	45.2	46.5	47.4	47.4	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
GE 12000	45.5	46.8	47.7	47.7	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
GE 10000	49.5	50.9	52.4	52.5	52.7	52.7	52.7	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 9000	51.5	53.0	54.5	54.6	54.8	54.8	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 8000	55.3	56.8	58.5	58.6	58.8	58.8	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
GE 7000	56.8	58.3	60.1	60.2	60.4	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 6000	57.0	58.5	60.3	60.4	60.6	60.6	60.6	60.6	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
GE 5000	60.0	61.5	63.5	63.7	63.9	63.9	63.9	63.9	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
GE 4500	63.8	65.3	67.8	68.0	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 4000	70.6	72.2	75.2	75.4	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 3500	74.9	76.5	79.6	79.8	80.5	80.5	80.5	80.5	80.6	80.6	80.8	80.8	80.8	80.8	80.8	80.8
GE 3000	80.5	82.2	85.4	85.8	87.0	87.1	87.1	87.1	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3
GE 2500	82.8	84.4	88.0	88.5	89.8	89.9	89.9	89.9	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.1
GE 2000	84.4	86.0	89.7	90.2	91.7	91.8	91.8	91.8	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0
GE 1800	84.9	86.7	90.3	90.9	92.4	92.5	92.6	92.7	92.8	92.8	92.9	92.9	92.9	92.9	92.9	92.9
GE 1500	85.9	87.7	92.0	92.7	94.4	94.7	94.9	95.1	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3
GE 1200	86.7	88.7	93.5	94.3	96.1	96.5	96.7	96.8	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0
GE 1000	87.1	89.1	94.7	95.7	97.5	98.1	98.6	98.7	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9
GE 900	87.2	89.2	94.9	96.0	97.8	98.4	98.9	99.0	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	87.2	89.2	95.2	96.2	98.1	98.6	99.1	99.2	99.4	99.4	99.5	99.5	99.5	99.5	99.5	99.5
GE 700	87.2	89.2	95.2	96.2	98.1	98.6	99.2	99.4	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 600	87.2	89.2	95.2	96.2	98.1	98.6	99.2	99.4	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	87.4	89.5	95.4	96.5	98.4	98.9	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	87.4	89.5	95.4	96.5	98.4	98.9	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	87.4	89.5	95.4	96.5	98.4	98.9	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	87.4	89.5	95.4	96.5	98.4	98.9	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	87.4	89.5	95.4	96.5	98.4	98.9	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	87.4	89.5	95.4	96.5	98.4	98.9	99.6	99.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	43.9	45.1	45.8	45.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 20000	49.2	50.6	51.5	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 18000	49.2	50.6	51.5	51.6	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
GE 16000	49.4	50.8	51.6	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 14000	49.4	50.8	51.6	51.7	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 12000	49.5	50.9	51.8	51.9	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
GE 10000	53.8	55.2	56.5	56.9	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 9000	54.9	56.3	57.6	58.1	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 8000	60.4	61.9	63.5	64.0	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 7000	61.6	63.1	64.7	65.2	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 6000	61.8	63.3	64.9	65.4	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 5000	64.8	66.6	68.3	68.7	69.0	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
GE 4500	67.4	69.4	71.2	71.6	72.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
GE 4000	72.3	74.4	77.2	77.7	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
GE 3500	76.5	78.6	81.9	82.5	82.9	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 3000	80.1	82.3	86.1	86.8	87.2	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
GE 2500	80.9	83.0	86.9	87.5	38.2	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
GE 2000	83.0	85.2	89.1	89.8	90.4	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
GE 1800	83.2	85.4	89.5	90.1	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1500	84.6	86.8	91.2	91.9	92.8	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.7	93.7	93.7
GE 1200	85.5	87.6	92.6	93.3	94.3	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.2	95.2	95.2
GE 1000	86.2	88.4	93.5	94.6	95.8	96.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.0	97.0
GE 900	86.2	88.4	94.0	95.3	96.5	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.8	97.8	97.8
GE 800	86.6	88.7	94.4	95.7	97.0	97.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.4	98.4	98.4
GE 700	86.6	88.7	94.8	96.1	97.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.9	98.9	98.9
GE 600	86.6	88.7	94.9	96.2	97.6	98.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	99.2	99.2	99.2
GE 500	86.7	88.8	95.1	96.3	97.7	98.7	98.9	98.9	99.0	99.0	99.0	99.0	99.0	99.4	99.4	99.4
GE 400	86.7	88.8	95.1	96.3	97.7	98.7	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.5	99.5	99.5
GE 300	86.7	88.8	95.1	96.3	97.7	98.8	99.1	99.1	99.4	99.4	99.5	99.6	99.6	99.9	99.9	99.9
GE 200	86.7	88.8	95.1	96.3	97.7	98.8	99.1	99.1	99.4	99.4	99.6	99.7	99.7	100.0	100.0	100.0
GE 100	86.7	88.8	95.1	96.3	97.7	98.8	99.1	99.1	99.4	99.4	99.6	99.7	99.7	100.0	100.0	100.0
GE 000	86.7	88.8	95.1	96.3	97.7	98.8	99.1	99.1	99.4	99.4	99.6	99.7	99.7	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	33.7	34.5	36.5	36.9	37.5	37.6	37.7	37.8	37.9	37.9	37.9	37.9	38.0	38.0	38.0	38.1
GE 20000	39.0	40.0	42.4	42.8	43.5	43.6	43.8	43.9	44.0	44.1	44.1	44.1	44.1	44.2	44.2	44.2
GE 18000	39.2	40.1	42.5	43.0	43.7	43.8	44.0	44.1	44.2	44.2	44.3	44.3	44.3	44.3	44.4	44.4
GE 16000	39.2	40.2	42.5	43.0	43.7	43.8	44.0	44.1	44.2	44.2	44.3	44.3	44.3	44.4	44.4	44.4
GE 14000	39.2	40.2	42.6	43.1	43.8	43.9	44.0	44.2	44.2	44.3	44.4	44.4	44.4	44.4	44.5	44.5
GE 12000	39.6	40.6	43.0	43.5	44.2	44.3	44.5	44.6	44.7	44.8	44.8	44.8	44.8	44.9	44.9	44.9
GE 10000	42.6	43.7	46.6	47.2	48.0	48.1	48.4	48.5	48.6	48.7	48.7	48.7	48.8	48.8	48.9	48.9
GE 9000	43.7	44.8	47.8	48.4	49.4	49.5	49.8	49.9	50.0	50.1	50.1	50.2	50.2	50.3	50.3	50.3
GE 8000	47.6	48.8	52.1	52.7	53.8	53.9	54.2	54.4	54.4	54.5	54.6	54.6	54.7	54.7	54.7	54.8
GE 7000	48.4	49.6	53.1	53.7	54.8	55.0	55.2	55.4	55.5	55.6	55.6	55.6	55.7	55.7	55.8	55.8
GE 6000	48.7	49.9	53.4	54.1	55.1	55.3	55.6	55.8	55.8	56.0	56.0	56.0	56.1	56.1	56.2	56.2
GE 5000	50.9	52.2	56.0	56.7	57.8	58.0	58.3	58.5	58.6	58.7	58.7	58.7	58.8	58.8	58.9	58.9
GE 4500	52.9	54.3	58.3	59.0	60.3	60.6	60.9	61.1	61.2	61.3	61.4	61.4	61.4	61 5	61.5	61.6
GE 4000	57.5	59.0	63.7	64.4	65.9	66.2	66.6	66.8	66.9	67.0	67.1	67.1	67.2	67.2	67.3	67.3
GE 3500	62.1	63.7	68.7	69.6	71.2	71.5	71.9	72.2	72.3	72.4	72.5	72.5	72.6	72.7	72.8	72.8
GE 3000	66.9	68.5	74.1	75.1	76.8	77.2	77.8	78.1	78.2	78.4	78.5	78.5	78.6	78.7	78.8	78.8
GE 2500	69.0	70.8	76.5	77.6	79.4	79.9	80.5	80.8	80.9	81.1	81.3	81.3	81.4	81.4	81.5	81.6
GE 2000	71.7	73.5	79.7	80.9	82.8	83.2	83.9	84.2	84.4	84.6	84.7	84.7	84.8	84.9	85.0	85.0
GE 1800	72.5	74.3	80.8	81.9	83.9	84.4	85.0	85.4	85.5	85.8	85.9	85.9	86.0	86.1	86.2	86.2
GE 1500	75.0	76.9	83.9	85.1	87.3	87.9	88.6	89.1	89.2	89.5	89.6	89.6	89.7	89.8	89.9	89.9
GE 1200	76.8	78.7	86.2	87.6	89.9	90.5	91.3	91.8	92.1	92.3	92.4	92.5	92.6	92.6	92.7	92.8
GE 1000	77.8	79.7	87.7	89.3	91.9	92.6	93.7	94.2	94.5	94.8	94.9	95.0	95.1	95.1	95.2	95.3
GE 900	77.9	79.9	88.0	89.7	92.5	93.3	94.4	95.0	95.3	95.6	95.7	95.8	95.9	96.0	96.1	96.1
GE 800	78.1	80.1	88.4	90.1	93.0	93.8	94.9	95.6	95.8	96.1	96.3	96.3	96.5	96.6	96.7	96.7
GE 700	78.3	80.2	88.7	90.6	93.5	94.4	95.6	96.2	96.5	96.9	97.0	97.1	97.2	97.3	97.4	97.5
GE 600	78.4	80.4	89.0	90.9	94.0	95.0	96.2	96.9	97.2	97.6	97.7	97.8	97.9	98.1	98.2	98.2
GE 500	78.6	80.6	89.2	91.2	94.4	95.4	96.7	97.4	97.7	98.1	98.3	98.4	98.5	98.7	98.8	98.8
GE 400	78.7	80.6	89.3	91.3	94.5	95.5	96.9	97.6	98.0	98.5	98.7	98.8	99.0	99.1	99.2	99.3
GE 300	78.7	80.6	89.4	91.3	94.5	95.6	97.0	97.8	98.2	98.7	99.0	99.1	99.2	99.4	99.5	99.6
GE 200	78.7	80.6	89.4	91.3	94.5	95.6	97.0	97.9	98.3	98.8	99.1	99.2	99.4	99.6	99.7	99.8
GE 100	78.7	80.6	89.4	91.3	94.5	95.6	97.0	97.9	98.3	98.8	99.1	99.2	99.4	99.7	99.8	100.0
GE 000	78.7	80.6	89.4	91.3	94.5	95.6	97.0	97.9	98.3	98.8	99.1	99.2	99.4	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 7440

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	40.1	41.1	44.7	45.0	46.1	46.1	46.6	46.7	46.8	46.8	46.9	46.9	46.9	47.0	47.0	47.2
GE 20000	44.4	45.4	49.9	50.3	51.6	51.6	52.1	52.2	52.3	52.3	52.4	52.4	52.4	52.6	52.6	52.8
GE 18000	44.4	45.4	49.9	50.3	51.6	51.6	52.1	52.2	52.3	52.3	52.4	52.4	52.4	52.6	52.6	52.8
GE 16000	44.4	45.4	49.9	50.3	51.6	51.6	52.1	52.2	52.3	52.3	52.4	52.4	52.4	52.6	52.6	52.8
GE 14000	44.4	45.4	49.9	50.3	51.6	51.6	52.1	52.2	52.3	52.3	52.4	52.4	52.4	52.6	52.6	52.8
GE 12000	44.8	45.8	50.3	50.8	52.0	52.0	52.6	52.7	52.8	52.8	52.9	52.9	52.9	53.0	53.0	53.2
GE 10000	47.9	48.9	53.9	54.3	55.8	55.8	56.3	56.4	56.6	56.7	56.8	56.8	56.8	56.9	56.9	57.1
GE 9000	48.8	49.8	55.0	55.4	56.9	56.9	57.4	57.6	57.7	57.8	57.9	57.9	57.9	58.0	58.0	58.2
GE 8000	52.7	53.7	59.2	59.7	61.2	61.2	61.8	61.9	62.0	62.1	62.2	62.2	62.2	62.3	62.3	62.6
GE 7000	54.4	55.4	61.0	61.4	63.0	63.0	63.6	63.7	63.8	63.9	64.0	64.0	64.0	64.1	64.1	64.3
GE 6000	54.7	55.9	61.4	61.9	63.4	63.4	64.0	64.1	64.2	64.3	64.4	64.4	64.4	64.6	64.6	64.8
GE 5000	57.3	58.7	64.4	64.9	66.4	66.4	67.0	67.1	67.2	67.3	67.4	67.4	67.4	67.6	67.6	67.8
GE 4500	61.2	62.7	68.7	69.2	71.1	71.1	72.0	72.1	72.2	72.4	72.6	72.6	72.6	72.7	72.7	72.9
GE 4000	65.8	67.3	73.6	74.1	76.3	76.4	77.3	77.4	77.6	77.8	77.9	77.9	78.1	78.2	78.2	78.4
GE 3500	69.0	70.9	77.2	78.0	80.2	80.3	81.2	81.3	81.4	81.7	81.8	81.8	82.0	82.1	82.1	82.3
GE 3000	71.4	73.3	80.4	81.4	83.7	83.8	84.7	85.1	85.2	85.4	85.6	85.6	85.8	85.9	85.9	86.1
GE 2500	72.1	74.0	81.3	82.4	84.7	84.8	85.7	86.1	86.2	86.4	86.6	86.6	86.8	86.9	86.9	87.1
GE 2000	73.8	75.7	83.1	84.2	86.4	86.7	87.8	88.2	88.3	88.6	88.7	88.7	88.9	89.0	89.0	89.2
GE 1800	73.9	75.8	83.3	84.4	86.7	86.9	88.0	88.4	88.6	88.8	88.9	88.9	89.1	89.2	89.2	89.4
GE 1500	76.0	77.9	85.7	86.8	89.0	89.2	90.3	90.9	91.0	91.2	91.3	91.3	91.6	91.7	91.7	91.9
GE 1200	76.9	78.8	86.7	87.8	90.1	90.3	91.6	92.1	92.2	92.4	92.6	92.6	92.8	92.9	92.9	93.1
GE 1000	78.3	80.2	88.4	89.7	92.0	92.2	93.4	94.0	94.1	94.3	94.4	94.4	94.7	94.8	94.8	95.0
GE 900	78.8	80.7	89.0	90.2	92.6	92.8	94.0	94.6	94.7	94.9	95.0	95.0	95.2	95.3	95.3	95.6
GE 800	78.8	80.7	89.0	90.2	92.7	92.9	94.1	94.7	94.8	95.0	95.1	95.1	95.3	95.4	95.4	95.7
GE 700	79.6	81.4	90.1	91.3	93.8	94.0	95.2	95.8	95.9	96.1	96.2	96.2	96.4	96.6	96.6	96.8
GE 600	79.8	81.7	90.3	91.7	94.1	94.4	95.7	96.3	96.4	96.7	96.8	96.8	97.0	97.1	97.1	97.3
GE 500	80.1	82.0	90.8	92.1	94.9	95.2	96.4	97.1	97.2	97.6	97.7	97.7	97.9	98.0	98.0	98.2
GE 400	80.3	82.2	91.1	92.4	95.3	95.9	97.1	97.8	97.9	98.2	98.3	98.3	98.6	98.7	98.7	98.9
GE 300	80.3	82.2	91.1	92.4	95.3	95.9	97.1	97.9	98.0	98.4	98.6	98.6	98.8	98.9	98.9	99.1
GE 200	80.3	82.2	91.1	92.4	95.3	95.9	97.2	98.0	98.1	98.6	98.7	98.8	99.0	99.1	99.2	99.4
GE 100	80.3	82.2	91.1	92.4	95.3	95.9	97.2	98.0	98.1	98.6	98.7	98.8	99.0	99.1	99.2	100.0
GE 000	80.3	82.2	91.1	92.4	95.3	95.9	97.2	98.0	98.1	98.6	98.7	98.8	99.0	99.1	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	24.2	24.8	31.0	32.2	35.0	35.6	36.6	37.4	37.7	37.9	37.9	38.0	38.0	38.2	38.3	38.7
GE 20000	27.0	27.6	34.3	35.8	39.3	39.9	41.2	42.2	42.4	42.8	42.9	43.0	43.0	43.2	43.3	43.7
GE 18000	27.0	27.6	34.3	35.8	39.3	39.9	41.2	42.2	42.4	42.8	42.9	43.0	43.0	43.2	43.3	43.7
GE 16000	27.0	27.6	34.3	35.8	39.3	39.9	41.2	42.2	42.4	42.8	42.9	43.0	43.0	43.2	43.3	43.7
GE 14000	27.0	27.6	34.3	35.8	39.3	39.9	41.2	42.2	42.4	42.8	42.9	43.0	43.0	43.2	43.3	43.7
GE 12000	27.2	27.8	34.6	36.0	39.6	40.2	41.6	42.6	42.8	43.1	43.2	43.3	43.3	43.6	43.7	44.0
GE 10000	28.8	29.3	36.6	38.3	42.3	43.2	44.8	45.8	46.0	46.4	46.6	46.7	46.7	47.0	47.1	47.7
GE 9000	30.1	30.7	38.6	40.3	44.4	45.3	46.9	47.9	48.1	48.6	48.7	48.8	48.8	49.1	49.2	49.8
GE 8000	33.6	34.2	42.4	44.2	48.4	49.3	51.0	52.0	52.2	52.7	52.8	52.9	52.9	53.2	53.3	53.9
GE 7000	34.2	34.9	43.2	45.0	49.2	50.1	51.8	52.9	53.1	53.6	53.7	53.8	53.8	54.1	54.2	54.8
GE 6000	34.6	35.2	43.6	45.3	49.6	50.4	52.1	53.2	53.4	53.9	54.0	54.1	54.1	54.4	54.6	55.1
GE 5000	36.8	37.6	46.0	47.9	52.1	53.1	54.8	55.9	56.1	56.6	56.8	56.9	56.9	57.2	57.3	58.1
GE 4500	38.8	39.6	48.8	50.7	55.4	56.6	58.4	59.6	59.8	60.2	60.4	60.6	60.6	60.9	61.0	61.8
GE 4000	41.7	42.4	52.7	54.7	59.8	60.9	62.9	64.1	64.4	64.9	65.1	65.2	65.2	65.6	65.7	66.6
GE 3500	44.1	45.0	55.8	57.8	63.2	64.3	66.3	67.8	68.1	68.6	68.8	68.9	68.9	69.2	69.3	70.2
GE 3000	48.0	48.9	60.7	63.3	68.9	70.2	72.3	74.0	74.3	74.9	75.1	75.2	75.2	75.6	75.7	76.6
GE 2500	49.2	50.2	62.2	65.0	70.6	71.9	74.1	75.8	76.1	76.8	77.0	77.1	77.1	77.4	77.6	78.4
GE 2000	50.8	51.8	63.9	66.7	72.6	73.9	76.2	77.9	78.2	78.9	79.1	79.2	79.2	79.6	79.7	80.6
GE 1800	51.3	52.3	64.7	67.4	73.3	74.7	77.0	78.7	79.0	79.7	79.9	80.0	80.0	80.3	80.4	81.3
GE 1500	53.1	54.1	66.9	69.7	75.9	77.2	79.6	81.2	81.6	82.2	82.4	82.6	82.6	82.9	83.0	83.9
GE 1200	54.7	55.7	68.8	71.6	77.9	79.2	81.8	83.4	83.8	84.4	84.7	84.8	84.8	85.1	85.2	86.1
GE 1000	56.1	57.1	70.7	73.4	80.0	81.3	83.9	85.6	85.9	86.6	86.8	86.9	86.9	87.2	87.3	88.2
GE 900	56.7	57.8	71.8	74.7	81.2	82.6	85.1	86.9	87.2	87.9	88.1	88.2	88.2	88.6	88.7	89.6
GE 800	57.4	58.6	72.9	75.8	82.4	84.0	86.7	88.4	88.8	89.4	89.7	89.8	89.8	90.1	90.2	91.1
GE 700	58.2	59.3	74.0	77.0	83.9	85.4	88.1	90.0	90.3	91.1	91.3	91.4	91.4	91.8	91.9	92.8
GE 600	58.7	59.8	74.6	77.6	84.4	86.0	88.7	90.6	90.9	91.7	92.0	92.1	92.1	92.4	92.6	93.4
GE 500	58.8	59.9	74.9	78.1	85.3	86.9	89.7	91.7	32.0	92.8	93.3	93.4	93.4	93.8	93.9	94.8
GE 400	59.0	60.1	75.1	78.4	85.8	87.6	90.6	92.6	93.4	94.4	95.0	95.1	95.2	95.6	95.8	96.7
GE 300	59.0	60.1	75.1	78.7	86.1	88.0	91.0	93.2	94.1	95.2	95.8	95.9	96.0	96.3	96.7	97.7
GE 200	59.0	60.1	75.1	78.9	86.3	88.2	91.3	93.7	94.6	96.0	96.6	96.8	96.9	97.2	97.6	98.9
GE 100	59.0	60.1	75.1	78.9	86.3	88.2	91.3	93.7	94.6	96.0	96.7	97.0	97.1	97.4	97.8	99.8
GE 000	59.0	60.1	75.1	78.9	86.3	88.2	91.3	93.7	94.6	96.0	96.7	97.1	97.2	97.6	98.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	18.8	19.3	25.9	26.6	29.0	29.9	30.4	31.4	31.6	31.6	31.7	31.7	31.7	31.9	31.9	32.1
GE 20000	21.9	22.4	30.0	30.9	34.0	35.1	36.1	37.4	37.8	37.9	38.1	38.1	38.1	38.3	38.4	39.0
GE 18000	21.9	22.4	30.0	30.9	34.0	35.1	36.1	37.4	37.8	37.9	38.1	38.1	38.1	38.3	38.4	39.0
GE 16000	21.9	22.4	30.0	30.9	34.0	35.1	36.1	37.4	37.8	37.9	38.1	38.1	38.1	38.3	38.4	39.0
GE 14000	22.1	22.7	30.3	31.3	34.6	35.7	36.7	38.0	38.3	38.4	38.7	38.7	38.7	38.9	39.0	39.6
GE 12000	22.3	22.9	30.7	31.7	35.1	36.2	37.2	38.6	38.9	39.0	39.2	39.2	39.2	39.4	39.6	40.1
GE 10000	24.9	25.4	33.4	34.4	38.3	39.8	40.8	42.4	42.9	43.4	43.7	43.7	43.7	44.0	44.1	44.7
GE 9000	25.9	26.6	34.9	36.0	40.1	41.6	42.7	44.3	44.8	45.3	45.6	45.6	45.6	45.9	46.0	46.7
GE 8000	28.2	28.9	37.9	39.1	43.6	45.1	46.2	47.9	48.4	49.0	49.2	49.2	49.2	49.6	49.7	50.3
GE 7000	28.8	29.4	38.7	40.0	44.7	46.3	47.4	49.2	49.8	50.3	50.6	50.6	50.6	50.9	51.0	51.7
GE 6000	28.8	29.4	38.7	40.0	44.8	46.4	47.6	49.4	50.0	50.7	50.9	50.9	50.9	51.2	51.3	52.0
GE 5000	29.7	30.4	40.0	41.7	46.7	48.4	49.8	51.7	52.2	52.9	53.1	53.1	53.1	53.4	53.6	54.2
GE 4500	31.1	31.9	41.7	43.6	48.7	50.8	52.1	54.0	54.6	55.2	55.4	55.4	55.4	55.8	55.9	56.6
GE 4000	33.8	34.7	44.8	46.8	52.0	54.1	55.4	57.7	58.3	59.0	59.3	59.3	59.3	59.7	59.8	60.4
GE 3500	36.0	36.9	47.7	49.7	55.1	57.2	58.6	61.2	61.9	62.6	62.9	62.9	62.9	63.2	63.3	64.0
GE 3000	39.0	39.9	52.0	54.1	60.3	62.7	64.0	66.7	67.4	68.2	68.6	68.6	68.6	68.9	69.0	69.7
GE 2500	40.1	41.0	53.2	55.3	61.7	64.0	65.4	68.1	68.9	69.7	70.0	70.0	70.0	70.3	70.4	71.1
GE 2000	42.2	43.1	55.6	57.9	64.6	67.0	68.4	71.1	71.9	72.7	73.0	73.0	73.0	73.3	73.4	74.1
GE 1800	42.8	43.7	56.2	58.6	65.4	68.0	69.4	72.2	73.0	73.8	74.1	74.1	74.1	74.4	74.6	75.2
GE 1500	44.9	45.8	59.3	62.2	69.4	72.0	73.4	76.2	77.2	78.0	78.3	78.3	78.3	78.7	78.8	79.4
GE 1200	46.3	47.2	61.1	64.1	71.4	74.1	75.8	78.6	79.6	80.3	80.7	80.8	80.8	81.1	81.2	81.9
GE 1000	48.2	49.1	63.2	66.3	73.8	76.6	78.4	81.4	82.4	83.2	83.6	83.7	83.7	84.0	84.1	84.8
GE 900	49.3	50.3	65.1	68.3	75.9	78.7	80.6	83.6	84.6	85.3	85.7	85.8	85.8	86.1	86.2	86.9
GE 800	50.1	51.1	66.4	69.8	77.3	80.1	82.0	85.1	86.1	86.9	87.2	87.3	87.3	87.7	87.8	88.4
GE 700	50.8	51.8	67.6	70.9	78.8	81.7	83.7	86.9	87.9	88.7	89.0	89.1	89.1	89.4	89.6	90.2
GE 600	51.0	52.0	68.2	71.9	80.0	82.9	84.9	88.1	89.2	90.0	90.3	90.4	90.6	90.9	91.0	91.7
GE 500	51.6	52.6	69.2	73.0	81.2	84.2	86.3	89.7	90.8	91.7	92.0	92.2	92.3	92.8	92.9	93.6
GE 400	51.8	52.8	69.7	73.4	81.9	85.4	87.8	91.8	93.3	94.3	94.9	95.1	95.2	95.7	95.8	96.6
GE 300	51.8	52.8	69.9	73.7	82.1	85.8	88.1	92.2	93.9	95.2	96.0	96.2	96.6	97.1	97.4	98.3
GE 200	51.8	52.8	69.9	73.7	82.1	85.8	88.1	92.2	93.9	95.3	96.2	96.6	97.0	97.7	98.1	99.6
GE 100	51.8	52.8	69.9	73.7	82.1	85.8	88.1	92.2	94.0	95.4	96.3	96.7	97.1	97.8	98.3	100.0
GE 000	51.8	52.8	69.9	73.7	82.1	85.8	88.1	92.2	94.0	95.4	96.3	96.7	97.1	97.8	98.3	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	29.0	29.8	31.3	31.6	32.4	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.8	32.8	32.8	32.8
GE 20000	34.0	34.9	37.1	37.6	38.8	39.1	39.6	39.6	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 18000	34.0	34.9	37.1	37.6	38.8	39.1	39.6	39.6	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 16000	34.0	34.9	37.1	37.6	38.8	39.1	39.6	39.6	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.8
GE 14000	34.6	35.4	37.8	38.2	39.4	39.8	40.2	40.2	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 12000	35.0	35.9	38.4	38.9	40.1	40.4	40.9	40.9	41.0	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 10000	36.3	37.4	40.3	41.1	42.3	42.7	43.2	43.2	43.3	43.6	43.6	43.6	43.6	43.7	43.7	43.7
GE 9000	36.9	38.0	41.1	41.9	43.1	43.4	44.0	44.0	44.1	44.3	44.3	44.3	44.3	44.4	44.4	44.4
GE 8000	37.8	38.9	42.8	43.6	44.8	45.1	45.7	45.7	45.8	46.0	46.0	46.0	46.0	46.1	46.1	46.1
GE 7000	38.4	39.6	43.4	44.2	45.4	45.9	46.4	46.4	46.6	46.8	46.8	46.8	46.8	46.9	46.9	46.9
GE 6000	38.7	39.8	43.8	44.6	45.8	46.2	46.8	46.8	46.9	47.1	47.1	47.1	47.1	47.2	47.2	47.2
GE 5000	39.7	40.8	45.2	46.0	47.2	47.7	48.2	48.2	48.3	48.6	48.6	48.6	48.6	48.7	48.7	48.7
GE 4500	41.4	42.6	47.2	48.1	49.4	49.9	50.4	50.4	50.6	50.8	50.8	50.8	50.8	50.9	50.9	50.9
GE 4000	44.0	45.1	49.8	50.7	52.0	52.4	53.0	53.0	53.1	53.3	53.3	53.3	53.3	53.4	53.4	53.4
GE 3500	47.6	48.9	53.8	54.8	56.2	56.7	57.2	57.2	57.3	57.6	57.6	57.6	57.6	57.7	57.7	57.7
GE 3000	55.8	57.2	62.8	64.3	66.4	66.9	67.6	67.6	67.7	67.9	67.9	67.9	67.9	68.0	68.0	68.0
GE 2500	57.8	59.3	65.1	66.7	68.8	69.2	70.0	70.0	70.1	70.3	70.3	70.3	70.3	70.4	70.4	70.4
GE 2000	62.6	64.1	71.1	72.9	75.1	75.6	76.3	76.3	76.4	76.7	76.7	76.7	76.7	76.8	76.8	76.8
GE 1800	63.6	65.1	72.2	74.0	76.2	76.7	77.4	77.4	77.6	77.8	77.8	77.8	77.8	77.9	77.9	77.9
GE 1500	66.4	68.0	76.6	78.4	80.8	81.2	82.1	82.1	82.3	82.6	82.6	82.6	82.6	82.7	82.7	82.7
GE 1200	70.8	72.3	82.0	84.1	86.7	87.1	88.0	88.0	88.2	88.4	88.4	88.4	88.4	88.6	88.6	88.6
GE 1000	72.0	73.6	84.0	86.1	88.7	89.2	90.1	90.2	90.4	90.7	90.7	90.7	90.7	90.8	90.8	90.8
GE 900	73.1	74.7	85.4	87.6	90.2	90.9	91.8	92.0	92.2	92.4	92.4	92.4	92.4	92.6	92.6	92.6
GE 800	73.8	75.3	86.9	89.0	91.8	92.4	93.4	93.8	94.0	94.2	94.2	94.2	94.2	94.3	94.3	94.3
GE 700	73.9	75.4	87.6	89.8	92.7	93.3	94.3	94.7	95.0	95.3	95.3	95.3	95.3	95.4	95.4	95.4
GE 600	74.4	76.0	88.6	90.8	93.8	94.8	95.9	96.4	96.8	97.4	97.6	97.6	97.6	97.7	97.7	97.7
GE 500	74.7	76.2	88.9	91.1	94.1	95.2	96.3	96.9	97.2	97.9	98.0	98.0	98.0	98.1	98.1	98.1
GE 400	74.7	76.2	88.9	91.1	94.2	95.4	96.8	97.4	97.9	98.6	98.7	98.8	98.8	99.0	99.0	99.0
GE 300	74.7	76.2	88.9	91.1	94.2	95.4	96.9	97.6	98.1	98.9	99.1	99.2	99.2	99.4	99.4	99.4
GE 200	74.7	76.2	88.9	91.1	94.2	95.4	96.9	97.8	98.3	99.1	99.3	99.4	99.4	99.9	99.9	99.9
GE 100	74.7	76.2	88.9	91.1	94.2	95.4	96.9	97.8	98.3	99.1	99.3	99.4	99.4	99.9	99.9	99.9
GE 000	74.7	76.2	88.9	91.1	94.2	95.4	96.9	97.8	98.3	99.1	99.3	99.6	99.6	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	26.8	27.6	27.8	28.1	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
GE 20000	33.4	34.3	35.0	35.4	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
GE 18000	33.4	34.3	35.0	35.4	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
GE 16000	33.4	34.3	35.0	35.4	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
GE 14000	33.9	34.8	35.4	35.9	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
GE 12000	34.2	35.1	35.8	36.2	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
GE 10000	36.9	38.0	39.0	39.4	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 9000	37.6	38.8	39.8	40.2	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 8000	40.2	41.4	43.0	43.4	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.6
GE 7000	40.8	42.0	43.6	44.0	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
GE 6000	41.0	42.2	43.8	44.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE 5000	43.4	44.8	46.6	47.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
GE 4500	46.1	47.4	49.3	49.8	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
GE 4000	53.2	54.7	56.7	[illegible]	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 3500	60.4	61.9	64.2	64.8	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
GE 3000	70.4	72.0	7[illegible].0	75.7	77.1	77.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 2500	75.8	77.3	80.9	81.6	83.0	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 2000	80.7	82.3	86.0	86.7	88.3	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 1800	81.6	83.3	87.1	87.8	89.4	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 1500	83.9	85.8	90.1	90.9	92.7	92.8	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
GE 1200	85.4	87.4	91.9	92.7	94.4	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 1000	86.7	88.7	93.6	94.3	96.3	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 900	86.8	88.8	94.2	95.1	97.1	97.2	97.6	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
GE 800	86.9	88.9	94.4	95.4	97.4	97.7	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
GE 700	87.0	89.0	94.8	95.8	97.8	98.0	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 600	87.1	89.1	95.3	96.3	98.4	98.8	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 500	87.1	89.1	95.7	96.7	98.8	99.1	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	87.1	89.1	95.7	96.7	98.8	99.1	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	87.1	89.1	95.7	96.7	98.8	99.1	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	87.1	89.1	95.7	96.7	98.8	99.1	99.4	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 100	87.1	89.1	95.7	96.7	98.8	99.1	99.4	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0
GE 000	87.1	89.1	95.7	96.7	98.8	99.1	99.4	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	27.9	28.7	29.7	30.1	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
GE 20000	34.7	35.6	36.6	37.0	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
GE 18000	34.9	35.8	36.8	37.2	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
GE 16000	34.9	35.8	36.8	37.2	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
GE 14000	34.9	35.8	36.8	37.2	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8
GE 12000	35.6	36.4	37.4	37.9	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
GE 10000	39.0	39.9	41.4	42.1	42.7	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 9000	39.9	40.8	42.3	43.0	43.6	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
GE 8000	45.3	46.2	47.9	48.7	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 7000	47.0	47.9	49.6	50.3	50.9	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
GE 6000	47.7	48.7	50.3	51.2	51.8	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
GE 5000	51.0	52.0	54.0	54.9	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 4500	55.2	56.2	58.3	59.2	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 4000	63.6	64.6	66.9	67.8	68.3	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
GE 3500	71.1	72.2	75.0	75.9	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
GE 3000	79.2	80.4	84.0	85.0	85.7	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 2500	82.6	83.9	87.7	88.7	89.4	89.6	89.6	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
GE 2000	85.7	87.0	90.9	91.9	92.7	92.8	92.8	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1
GE 1800	85.7	87.0	91.1	92.1	92.9	93.0	93.0	93.2	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3
GE 1500	87.2	88.6	93.4	94.6	95.3	95.4	95.4	95.8	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0
GE 1200	88.2	89.6	94.7	95.8	96.6	96.7	96.7	97.0	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
GE 1000	88.8	90.1	95.6	96.9	97.7	97.8	97.9	98.2	98.3	98.3	98.4	98.4	98.4	98.4	98.4	98.4
GE 900	88.9	90.2	95.8	97.1	97.9	98.0	98.1	98.4	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7
GE 800	89.0	90.3	95.9	97.2	98.0	98.1	98.2	98.6	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8
GE 700	89.2	90.6	96.2	97.6	98.3	98.4	98.6	98.9	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1
GE 600	89.3	90.7	96.8	98.1	98.9	99.0	99.1	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	89.3	90.7	96.9	98.2	99.1	99.3	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	89.3	90.7	96.9	98.2	99.1	99.3	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	89.3	90.7	96.9	98.2	99.1	99.3	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	89.3	90.7	96.9	98.2	99.1	99.3	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	89.3	90.7	96.9	98.2	99.1	99.3	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	89.3	90.7	96.9	98.2	99.1	99.3	99.4	99.8	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	34.2	34.9	35.9	36.0	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
GE 20000	41.9	42.9	44.3	44.9	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
GE 18000	42.1	43.1	44.6	45.1	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 16000	42.1	43.1	44.6	45.1	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 14000	42.1	43.1	44.6	45.1	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
GE 12000	42.8	43.9	45.3	45.9	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
GE 10000	46.8	48.1	49.8	50.4	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
GE 9000	48.3	49.7	51.7	52.3	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
GE 8000	52.9	54.4	56.8	57.4	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
GE 7000	54.6	56.1	58.4	59.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
GE 6000	55.0	56.6	58.9	59.6	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 5000	60.3	62.0	64.7	65.3	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
GE 4500	66.4	68.2	71.2	71.9	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 4000	72.7	74.6	78.1	78.9	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
GE 3500	77.0	79.0	82.8	83.6	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 3000	81.3	83.3	87.7	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
GE 2500	82.4	84.6	89.3	90.1	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
GE 2000	83.8	86.1	91.3	92.2	93.6	93.6	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8
GE 1800	84.1	86.4	92.1	93.0	94.3	94.3	94.4	94.4	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1500	84.3	86.7	93.4	94.3	95.7	95.8	95.9	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0
GE 1200	85.3	87.7	94.9	95.8	97.1	97.2	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1000	86.0	88.3	95.6	96.6	97.9	98.0	98.2	98.2	98.2	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 900	86.3	88.7	95.9	96.9	98.4	98.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	86.6	88.9	96.1	97.1	98.7	98.8	99.0	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
GE 700	86.6	88.9	96.3	97.3	99.1	99.2	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	86.6	88.9	96.6	97.7	99.4	99.6	99.8	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500	86.6	88.9	96.6	97.7	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	86.6	88.9	96.6	97.7	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	86.6	88.9	96.6	97.7	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	86.6	88.9	96.6	97.7	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	86.6	88.9	96.6	97.7	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	86.6	88.9	96.6	97.7	99.6	99.7	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	40.6	41.2	43.2	43.2	43.9	43.9	43.9	44.0	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.2
GE 20000	46.9	47.6	49.8	49.8	51.0	51.0	51.2	51.3	51.4	51.4	51.6	51.6	51.6	51.6	51.6	51.6
GE 18000	47.0	47.7	49.9	49.9	51.1	51.1	51.3	51.4	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7
GE 16000	47.0	47.7	49.9	49.9	51.1	51.1	51.3	51.4	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7
GE 14000	47.0	47.7	49.9	49.9	51.1	51.1	51.3	51.4	51.6	51.6	51.7	51.7	51.7	51.7	51.7	51.7
GE 12000	47.7	48.4	50.7	50.8	52.0	52.0	52.2	52.3	52.4	52.4	52.6	52.6	52.6	52.6	52.6	52.6
GE 10000	52.1	52.9	55.6	55.7	57.0	57.0	57.2	57.3	57.4	57.4	57.8	57.8	57.8	57.8	57.8	57.8
GE 9000	53.9	54.8	57.6	57.9	59.2	59.2	59.4	59.6	59.7	59.7	60.0	60.0	60.0	60.0	60.0	60.0
GE 8000	57.3	58.2	61.4	61.8	63.1	63.1	63.3	63.4	63.6	63.6	63.9	63.9	63.9	63.9	63.9	63.9
GE 7000	58.9	59.8	63.1	63.4	64.8	64.8	65.0	65.1	65.2	65.2	65.6	65.6	65.6	65.6	65.6	65.6
GE 6000	59.4	60.3	63.8	64.1	65.7	65.7	65.9	66.0	66.1	66.1	66.4	66.4	66.4	66.4	66.4	66.4
GE 5000	62.3	63.2	66.9	67.2	68.8	68.8	69.0	69.1	69.2	69.2	69.6	69.6	69.6	69.6	69.6	69.6
GE 4500	66.4	67.3	71.1	71.6	73.3	73.3	73.6	73.8	73.9	73.9	74.2	74.2	74.2	74.2	74.2	74.2
GE 4000	72.1	73.1	77.6	78.1	79.9	80.1	80.3	80.6	80.7	80.7	81.0	81.0	81.0	81.0	81.0	81.0
GE 3500	76.7	78.0	82.6	83.1	84.9	85.1	85.4	85.7	85.8	85.8	86.1	86.1	86.1	86.1	86.1	86.1
GE 3000	79.0	80.4	85.7	86.4	88.4	88.7	89.0	89.2	89.3	89.3	89.7	89.7	89.7	89.7	89.7	89.7
GE 2500	80.8	82.2	87.6	88.3	90.4	90.8	91.1	91.3	91.4	91.4	91.8	91.8	91.8	91.8	91.8	91.8
GE 2000	81.6	83.1	88.7	89.4	91.7	92.0	92.3	92.6	92.7	92.7	93.0	93.0	93.0	93.0	93.0	93.0
GE 1800	82.2	83.8	89.3	90.2	92.4	92.8	93.1	93.3	93.4	93.4	93.8	93.8	93.8	93.8	93.8	93.8
GE 1500	83.1	84.7	91.0	92.0	94.3	94.8	95.1	95.3	95.4	95.4	95.8	95.8	95.8	95.8	95.8	95.8
GE 1200	83.6	85.1	91.6	92.6	94.9	95.3	95.8	96.1	96.2	96.2	96.6	96.6	96.6	96.6	96.6	96.6
GE 1000	84.7	86.2	92.8	93.8	96.1	96.6	97.1	97.4	97.6	97.6	97.9	97.9	97.9	97.9	97.9	97.9
GE 900	85.0	86.6	93.1	94.1	96.4	96.9	97.4	97.8	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2
GE 800	85.0	86.6	93.3	94.3	96.7	97.1	97.7	98.0	98.1	98.1	98.4	98.4	98.4	98.4	98.4	98.4
GE 700	85.1	86.7	93.4	94.6	96.9	97.3	97.9	98.2	98.3	98.3	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	85.1	86.7	93.6	94.7	97.2	97.7	98.2	98.6	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1
GE 500	85.3	87.0	93.9	95.1	97.7	98.1	98.7	99.0	99.1	99.1	99.6	99.6	99.6	99.6	99.6	99.6
GE 400	85.3	87.0	93.9	95.1	97.9	98.3	98.9	99.2	99.3	99.3	99.8	99.8	99.8	99.8	99.8	99.8
GE 300	85.3	87.0	93.9	95.2	98.0	98.4	99.0	99.3	99.4	99.4	99.9	99.9	99.9	99.9	99.9	99.9
GE 200	85.3	87.0	93.9	95.2	98.0	98.4	99.0	99.3	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	85.3	87.0	93.9	95.2	98.0	98.4	99.0	99.3	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	85.3	87.0	93.9	95.2	98.0	98.4	99.0	99.3	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUN HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	30.2	30.9	33.7	34.1	35.3	35.5	35.7	36.0	36.1	36.1	36.1	36.2	36.2	36.2	36.2	36.3
GE 20000	35.5	36.3	39.6	40.2	41.8	42.0	42.5	42.8	42.9	43.0	43.0	43.1	43.1	43.1	43.2	43.3
GE 18000	35.6	36.4	39.7	40.3	41.8	42.1	42.5	42.9	43.0	43.0	43.1	43.1	43.1	43.2	43.2	43.4
GE 16000	35.6	36.4	39.7	40.3	41.8	42.1	42.5	42.9	43.0	43.0	43.1	43.1	43.1	43.2	43.2	43.4
GE 14000	35.8	36.6	39.9	40.5	42.1	42.3	42.8	43.1	43.2	43.3	43.3	43.3	43.3	43.4	43.4	43.6
GE 12000	36.2	37.0	40.4	41.0	42.6	42.9	43.3	43.7	43.8	43.8	43.9	43.9	43.9	44.0	44.0	44.2
GE 10000	39.1	40.0	43.8	44.5	46.3	46.6	47.1	47.5	47.6	47.8	47.9	47.9	47.9	48.0	48.0	48.2
GE 9000	40.2	41.1	45.1	45.9	47.7	48.1	48.6	48.9	49.1	49.2	49.3	49.3	49.3	49.5	49.5	49.7
GE 8000	43.5	44.5	48.9	49.7	51.7	52.0	52.5	52.9	53.0	53.2	53.3	53.3	53.3	53.4	53.4	53.6
GE 7000	44.6	45.6	50.1	50.9	52.9	53.3	53.8	54.2	54.3	54.5	54.6	54.6	54.6	54.7	54.7	54.9
GE 6000	45.0	46.0	50.5	51.4	53.3	53.7	54.3	54.7	54.8	55.0	55.1	55.1	55.1	55.2	55.2	55.4
GE 5000	47.6	48.7	53.5	54.4	56.4	56.8	57.3	57.8	57.9	58.1	58.2	58.2	58.2	58.3	58.3	58.5
GE 4500	50.8	52.0	57.0	58.0	60.2	60.7	61.3	61.7	61.8	62.0	62.1	62.2	62.2	62.3	62.3	62.5
GE 4000	55.8	57.1	62.5	63.5	65.8	66.3	67.0	67.4	67.6	67.8	67.9	67.9	68.0	68.1	68.1	68.3
GE 3500	60.2	61.6	67.4	68.4	70.8	71.3	72.0	72.5	72.7	72.9	73.0	73.0	73.1	73.2	73.2	73.4
GE 3000	65.5	66.9	73.5	74.8	77.5	78.1	78.8	79.4	79.6	79.8	80.0	80.0	80.0	80.1	80.1	80.4
GE 2500	67.6	69.1	75.9	77.3	80.0	80.6	81.3	82.0	82.1	82.4	82.5	82.5	82.5	82.7	82.7	82.9
GE 2000	70.1	71.7	78.8	80.2	83.1	83.7	84.5	85.2	85.3	85.6	85.7	85.8	85.8	85.9	85.9	86.1
GE 1800	70.6	72.2	79.5	80.9	83.8	84.5	85.3	85.9	86.1	86.4	86.5	86.5	86.5	86.7	86.7	86.9
GE 1500	72.4	73.9	82.1	83.6	86.6	87.3	88.1	88.8	89.0	89.3	89.4	89.4	89.5	89.6	89.6	89.8
GE 1200	73.9	75.5	83.9	85.5	88.6	89.3	90.2	90.9	91.2	91.4	91.5	91.6	91.6	91.7	91.7	92.0
GE 1000	75.1	76.7	85.5	87.1	90.3	91.0	92.0	92.7	93.0	93.2	93.3	93.4	93.4	93.5	93.5	93.8
GE 900	75.6	77.2	86.3	88.0	91.2	91.9	92.9	93.7	94.0	94.2	94.3	94.4	94.4	94.5	94.5	94.8
GE 800	75.9	77.5	86.9	88.6	91.9	92.6	93.6	94.5	94.7	95.0	95.1	95.1	95.2	95.3	95.3	95.5
GE 700	76.3	77.9	87.5	89.3	92.7	93.4	94.4	95.3	95.6	95.8	96.0	96.0	96.0	96.1	96.2	96.4
GE 600	76.5	78.1	88.0	89.8	93.3	94.1	95.2	96.1	96.3	96.7	96.8	96.9	96.9	97.0	97.1	97.3
GE 500	76.7	78.3	88.3	90.3	93.8	94.7	95.8	96.7	97.0	97.3	97.6	97.6	97.6	97.8	97.8	98.0
GE 400	76.8	78.4	88.5	90.4	94.1	95.1	96.2	97.3	97.7	98.1	98.3	98.4	98.4	98.6	98.6	98.8
GE 300	76.8	78.4	88.5	90.5	94.2	95.2	96.4	97.5	97.9	98.4	98.7	98.7	98.8	98.9	99.0	99.3
GE 200	76.8	78.4	88.5	90.5	94.2	95.2	96.4	97.6	98.0	98.5	98.8	98.9	99.0	99.2	99.3	99.7
GE 100	76.8	78.4	88.5	90.5	94.2	95.2	96.4	97.6	98.0	98.5	98.9	99.0	99.1	99.3	99.4	100.0
GE 000	76.8	78.4	88.5	90.5	94.2	95.2	96.4	97.6	98.0	98.5	98.9	99.0	99.1	99.3	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 7200

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	50.5	51.4	54.6	55.2	55.7	55.7	56.1	56.2	56.2	56.3	56.3	56.3	56.3	56.3	56.3	56.4
GE 20000	55.0	56.0	59.6	60.6	61.1	61.1	61.4	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	62.0
GE 18000	55.0	56.0	59.6	60.6	61.1	61.1	61.4	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	62.0
GE 16000	55.0	56.0	59.6	60.6	61.1	61.1	61.4	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	62.0
GE 14000	55.0	56.0	59.6	60.6	61.1	61.1	61.4	61.5	61.5	61.7	61.7	61.7	61.7	61.7	61.7	62.0
GE 12000	55.2	56.2	59.9	60.8	61.3	61.3	61.7	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	62.3
GE 10000	56.7	57.6	61.4	62.4	62.9	62.9	63.2	63.3	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.8
GE 9000	57.9	58.8	62.9	63.8	64.4	64.4	64.8	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	65.4
GE 8000	62.1	63.3	67.5	68.5	69.2	69.2	69.5	69.6	69.6	69.8	69.8	69.8	69.8	69.8	69.8	70.1
GE 7000	62.5	63.8	68.3	69.3	70.0	70.0	70.4	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	71.0
GE 6000	62.9	64.2	68.8	69.8	70.5	70.5	71.0	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.5
GE 5000	63.9	65.2	70.2	71.2	72.0	72.0	72.6	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9	73.2
GE 4500	66.5	67.9	73.3	74.3	75.1	75.1	75.8	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.1	76.4
GE 4000	70.7	72.5	78.7	79.8	81.2	81.3	82.0	82.1	82.1	82.3	82.3	82.3	82.3	82.3	82.3	82.6
GE 3500	73.7	75.7	82.4	83.5	84.9	85.0	85.7	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.3
GE 3000	75.0	77.1	84.3	85.5	87.1	87.3	88.0	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.7
GE 2500	75.7	77.9	85.1	86.3	88.0	88.1	88.8	89.0	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.5
GE 2000	76.5	78.7	86.1	87.3	88.9	89.0	89.8	90.0	90.0	90.1	90.2	90.2	90.2	90.2	90.2	90.6
GE 1800	77.1	79.3	86.7	87.9	89.5	89.6	90.4	90.6	90.6	90.7	90.8	90.8	90.8	90.8	90.8	91.2
GE 1500	78.3	80.6	88.3	89.5	91.3	91.4	92.1	92.4	92.4	92.5	92.6	92.6	92.6	92.6	92.7	93.1
GE 1200	78.7	81.0	88.7	90.1	91.9	92.0	92.7	93.0	93.0	93.1	93.2	93.2	93.2	93.2	93.3	93.7
GE 1000	78.9	81.2	89.0	90.5	92.5	92.6	93.3	93.6	93.6	93.7	93.8	93.8	93.8	93.8	93.9	94.3
GE 900	79.8	82.0	90.4	91.8	93.8	93.9	94.6	94.9	94.9	95.0	95.1	95.1	95.1	95.1	95.2	95.6
GE 800	80.1	82.4	91.1	92.5	94.5	94.6	95.4	95.6	95.6	95.7	95.8	95.8	95.8	95.8	96.0	96.3
GE 700	80.2	82.5	91.3	92.7	94.9	95.0	95.7	96.1	96.1	96.2	96.3	96.3	96.3	96.3	96.4	96.8
GE 600	80.6	82.9	92.1	93.6	95.7	95.8	96.7	97.0	97.0	97.1	97.3	97.3	97.3	97.3	97.4	97.7
GE 500	81.0	83.3	92.7	94.2	96.3	96.4	97.3	97.6	97.6	97.7	97.9	97.9	97.9	97.9	98.0	98.3
GE 400	81.0	83.3	92.7	94.5	96.8	96.9	97.9	98.2	98.2	98.3	98.5	98.5	98.5	98.5	98.6	98.9
GE 300	81.0	83.3	93.0	94.8	97.3	97.5	98.5	98.8	98.8	98.9	99.0	99.0	99.0	99.0	99.2	99.5
GE 200	81.0	83.3	93.1	94.9	97.4	97.6	98.6	98.9	98.9	99.3	99.4	99.4	99.4	99.4	99.5	99.9
GE 100	81.0	83.3	93.1	94.9	97.4	97.6	98.6	98.9	98.9	99.3	99.4	99.4	99.4	99.4	99.5	99.9
GE 000	81.0	83.3	93.1	94.9	97.4	97.6	98.6	98.9	98.9	99.3	99.4	99.4	99.4	99.5	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 840

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	34.5	35.5	41.4	42.9	45.0	45.6	46.2	46.8	46.9	47.4	47.7	47.9	47.9	47.9	47.9	47.9
GE 20000	38.0	38.9	45.1	46.9	49.6	50.4	51.0	51.5	51.7	52.1	52.5	52.6	52.6	52	52.6	53.0
GE 18000	38.1	39.0	45.2	47.0	49.8	50.5	51.1	51.7	51.8	52.3	52.6	52.7	52.7	52.7	52.7	53.1
GE 16000	38.1	39.0	45.2	47.0	49.8	50.5	51.1	51.7	51.8	52.3	52.6	52.7	52.7	52.7	52.7	53.1
GE 14000	38.3	39.3	45.5	47.3	50.0	50.7	51.3	51.9	52.0	52.5	52.9	53.0	53.0	53.0	53.0	53.3
GE 12000	38.7	39.6	45.8	47.6	50.4	51.1	51.7	52.3	52.4	52.9	53.2	53.3	53.3	53.3	53.3	53.7
GE 10000	40.0	41.0	47.5	49.4	52.1	52.9	53.5	54.0	54.2	54.6	55.0	55.1	55.1	55.1	55.1	55.5
GE 9000	41.4	42.4	49.2	51.1	53.9	54.9	55.5	56.1	56.3	56.8	57.1	57.3	57.3	57.3	57.3	57.6
GE 8000	45.1	46.2	53.3	55.2	58.3	59.3	60.0	60.6	61.0	61.4	61.8	61.9	61.9	61.9	61.9	62.3
GE 7000	45.6	46.7	54.0	56.0	59.0	60.0	60.7	61.3	61.7	62.1	62.5	62.6	62.6	62.6	62.6	63.0
GE 6000	46.2	47.3	54.6	56.5	59.6	60.6	61.3	61.9	62.3	62.7	63.1	63.2	63.2	63.2	63.2	63.6
GE 5000	48.1	49.2	56.9	58.8	61.9	62.9	63.6	64.2	64.5	65.0	65.4	65.5	65.5	65.5	65.6	66.0
GE 4500	50.1	51.3	59.5	61.7	64.9	65.8	66.5	67.1	67.5	68.0	68.3	68.5	68.5	68.5	68.6	68.9
GE 4000	54.3	55.7	64.9	67.1	70.8	71.8	72.6	73.2	73.6	74.0	74.4	74.6	74.6	74.8	74.9	75.2
GE 3500	56.0	57.4	67.4	69.8	73.6	74.9	75.7	76.4	76.8	77.3	77.6	77.9	77.9	78.0	78.1	78.5
GE 3000	58.0	59.5	70.4	72.7	76.7	78.0	78.8	79.5	79.9	80.4	80.7	81.0	81.0	81.1	81.2	81.5
GE 2500	58.6	60.1	71.0	73.3	77.3	78.6	79.4	80.1	80.5	81.0	81.3	81.5	81.5	81.7	81.8	82.1
GE 2000	59.8	61.4	72.4	74.8	78.7	80.0	80.8	81.8	82.1	82.6	83.1	83.3	83.6	83.7	83.8	84.2
GE 1800	60.4	62.0	73.2	75.6	79.9	81.2	82.0	83.0	83.3	83.8	84.3	84.5	84.8	84.9	85.0	85.4
GE 1500	62.4	64.0	76.3	78.8	83.6	85.0	85.8	86.8	87.1	87.6	88.1	88.3	88.6	88.7	88.8	89.2
GE 1200	63.1	64.8	77.3	79.8	84.8	86.2	87.1	88.2	88.6	89.0	89.5	89.8	90.0	90.1	90.2	90.6
GE 1000	64.6	66.3	79.5	82.1	87.1	88.6	89.6	90.7	91.1	91.5	92.0	92.3	92.5	92.6	92.9	93.2
GE 900	64.9	66.5	80.0	82.6	87.6	89.0	90.1	91.2	91.5	92.0	92.5	92.7	93.0	93.1	93.3	93.7
GE 800	64.9	66.5	80.0	82.6	87.6	89.0	90.1	91.2	91.5	92.0	92.5	92.7	93.0	93.1	93.3	93.7
GE 700	65.1	66.8	80.2	82.9	87.9	89.3	90.4	91.4	91.8	92.3	92.7	93.0	93.2	93.3	93.6	93.9
GE 600	65.6	67.3	81.3	83.9	89.0	90.5	91.5	92.6	93.0	93.5	93.9	94.2	94.4	94.5	94.8	95.1
GE 500	65.8	67.5	81.9	84.5	90.0	91.5	92.6	93.8	94.3	94.8	95.4	95.6	95.8	96.0	96.2	96.5
GE 400	66.0	67.6	82.3	85.1	90.7	92.3	93.3	94.8	95.2	95.8	96.4	96.7	96.9	97.0	97.3	97.6
GE 300	66.0	67.6	82.3	85.1	90.8	92.6	93.9	95.4	96.0	96.5	97.5	97.7	98.0	98.1	98.5	98.8
GE 200	66.0	67.6	82.4	85.2	91.0	93.0	94.3	95.8	96.4	97.0	98.0	98.3	98.6	98.7	99.0	99.4
GE 100	66.0	67.6	82.4	85.2	91.0	93.0	94.3	95.8	96.4	97.1	98.1	98.5	98.7	98.8	99.4	99.9
GE 000	66.0	67.6	82.4	85.2	91.0	93.0	94.3	95.8	96.4	97.1	98.1	98.5	98.7	98.8	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 840

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	26.6	26.8	32.5	34.0	36.7	37.5	38.1	38.8	39.3	39.4	39.5	39.5	39.6	39.7	40.0	40.1
GE 20000	30.4	30.9	37.2	38.9	42.4	43.4	43.9	44.6	45.2	45.5	45.7	45.7	45.9	46.0	46.3	46.6
GE 18000	30.4	30.9	37.2	38.9	42.4	43.4	43.9	44.6	45.2	45.5	45.7	45.7	45.9	46.0	46.3	46.6
GE 16000	30.4	30.9	37.2	38.9	42.4	43.4	43.9	44.6	45.2	45.5	45.7	45.7	45.9	46.0	46.3	46.6
GE 14000	30.8	31.2	37.5	39.3	42.8	43.7	44.3	45.0	45.6	45.8	46.0	46.0	46.3	46.4	46.6	47.0
GE 12000	31.1	31.6	38.0	39.7	43.2	44.4	45.0	45.7	46.3	46.5	46.7	46.7	47.0	47.1	47.3	47.7
GE 10000	33.1	33.6	40.4	42.3	46.2	47.3	47.9	48.6	49.2	49.4	49.7	49.7	49.9	50.0	50.2	50.7
GE 9000	33.7	34.1	41.4	43.4	47.4	48.7	49.4	50.1	50.7	51.0	51.3	51.3	51.5	51.6	51.9	52.3
GE 8000	35.5	36.0	43.7	45.7	49.8	51.0	51.7	52.4	53.0	53.4	53.7	53.7	54.0	54.1	54.3	54.8
GE 7000	36.0	36.5	44.4	46.4	50.5	51.7	52.4	53.1	53.7	54.1	54.4	54.4	54.7	54.8	55.0	55.5
GE 6000	36.1	36.6	44.8	46.7	50.8	52.1	52.8	53.5	54.2	54.5	54.9	54.9	55.1	55.2	55.5	55.9
GE 5000	38.1	38.7	47.2	49.5	53.7	55.1	55.9	56.6	57.3	57.7	58.0	58.0	58.3	58.5	58.7	59.3
GE 4500	40.3	41.0	50.3	53.0	57.2	58.6	59.4	60.3	61.1	61.5	61.9	61.9	62.1	62.4	62.6	63.2
GE 4000	43.5	44.3	54.1	56.8	61.7	63.3	64.1	64.9	65.7	66.3	66.8	66.8	67.0	67.2	67.5	68.2
GE 3500	44.8	45.6	55.9	58.6	63.9	65.6	66.4	67.2	68.1	68.6	69.1	69.1	69.3	69.6	69.8	70.5
GE 3000	47.3	48.1	59.3	62.1	67.7	69.9	70.9	71.8	72.6	73.4	73.9	73.9	74.1	74.4	74.7	75.4
GE 2500	47.9	48.7	60.0	62.8	68.6	70.9	71.8	73.0	73.8	74.6	75.1	75.1	75.3	75.5	75.9	76.6
GE 2000	49.9	50.7	62.5	65.3	71.2	73.4	74.4	75.6	76.5	77.3	77.7	77.7	78.0	78.2	78.6	79.3
GE 1800	50.1	50.9	62.7	65.5	71.4	73.7	74.7	76.0	76.8	77.6	78.1	78.1	78.3	78.6	78.9	79.6
GE 1500	52.8	53.8	66.3	69.3	75.6	78.1	79.5	80.8	81.7	82.5	83.0	83.0	83.2	83.4	83.8	84.5
GE 1200	54.1	55.1	67.8	71.0	77.6	80.2	81.9	83.2	84.1	85.0	85.5	85.5	85.8	86.0	86.4	87.1
GE 1000	55.8	56.9	69.9	73.4	80.3	83.0	84.7	86.0	87.1	87.9	88.5	88.5	88.7	88.9	89.4	90.1
GE 900	56.1	57.1	70.4	73.9	80.8	83.4	85.2	86.5	87.6	88.5	89.0	89.0	89.3	89.5	90.0	90.7
GE 800	56.3	57.3	71.3	74.9	81.9	84.6	86.5	87.8	88.9	89.7	90.3	90.3	90.6	90.8	91.3	92.0
GE 700	57.0	58.0	72.3	75.9	83.0	85.7	87.5	88.8	90.0	90.8	91.4	91.4	91.6	91.8	92.3	93.0
GE 600	57.7	58.7	74.2	77.9	85.2	87.9	89.9	91.1	92.3	93.2	93.8	93.8	94.1	94.3	94.8	95.5
GE 500	57.8	58.9	75.2	79.0	86.5	89.3	91.4	92.8	93.9	94.9	95.5	95.5	95.7	95.9	96.4	97.1
GE 400	57.9	59.0	75.5	79.4	86.9	90.0	92.2	94.4	95.7	96.6	97.2	97.2	97.4	97.7	98.1	98.8
GE 300	57.9	59.0	75.5	79.4	87.1	90.1	92.3	94.8	96.0	97.0	97.7	97.7	97.9	98.1	98.6	99.7
GE 200	57.9	59.0	75.5	79.4	87.1	90.3	92.5	95.0	96.3	97.2	97.9	97.9	98.1	98.4	98.8	99.9
GE 100	57.9	59.0	75.5	79.4	87.1	90.3	92.5	95.0	96.3	97.2	97.9	97.9	98.1	98.4	98.8	100.0
GE 000	57.9	59.0	75.5	79.4	87.1	90.3	92.5	95.0	96.3	97.2	97.9	97.9	98.1	98.4	98.8	100.0

TOTAL NUMBER OF OBSERVATIONS 858

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	31.9	32.8	36.0	36.8	37.9	37.9	37.9	37.9	37.9	37.9	37.9	38.0	38.0	38.0	38.0	38.0
GE 20000	37.5	38.5	42.4	43.6	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.9	44.9	44.9	44.9	44.9
GE 18000	37.6	38.6	42.5	43.7	44.9	44.9	44.9	44.9	44.9	44.9	44.9	45.0	45.0	45.0	45.0	45.0
GE 16000	37.6	38.6	42.5	43.7	44.9	44.9	44.9	44.9	44.9	44.9	44.9	45.0	45.0	45.0	45.0	45.0
GE 14000	38.2	39.2	43.1	44.3	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.6	45.6	45.6	45.6	45.6
GE 12000	38.7	39.6	43.6	44.8	45.9	45.9	45.9	45.9	45.9	45.9	45.9	46.0	46.0	46.0	46.0	46.0
GE 10000	42.1	43.0	47.1	48.3	49.4	49.4	49.4	49.4	49.5	49.5	49.5	49.7	49.7	49.7	49.7	49.7
GE 9000	43.6	44.6	48.8	50.1	51.3	51.3	51.3	51.3	51.4	51.4	51.4	51.5	51.5	51.5	51.5	51.5
GE 8000	47.1	48.4	53.0	54.4	55.7	55.8	55.9	56.1	56.2	56.2	56.2	56.4	56.4	56.4	56.4	56.4
GE 7000	47.6	48.8	53.5	54.9	56.2	56.3	56.4	56.5	56.6	56.6	56.6	56.9	56.9	56.9	56.9	56.9
GE 6000	48.1	49.4	54.2	55.6	56.9	57.0	57.1	57.2	57.3	57.3	57.3	57.6	57.6	57.6	57.6	57.6
GE 5000	49.7	50.9	55.9	57.3	58.6	58.7	58.9	59.0	59.1	59.1	59.1	59.3	59.3	59.3	59.3	59.3
GE 4500	50.7	52.1	57.3	59.0	60.3	60.4	60.5	60.6	60.7	60.7	60.7	61.0	61.0	61.0	61.0	61.0
GE 4000	54.2	55.7	61.7	63.4	64.8	64.9	65.0	65.2	65.3	65.3	65.3	65.5	65.5	65.5	65.5	65.5
GE 3500	58.3	60.0	66.1	67.8	69.3	69.6	69.9	70.0	70.2	70.2	70.2	70.4	70.4	70.4	70.4	70.4
GE 3000	62.1	63.9	71.1	73.0	74.7	74.9	75.4	75.8	75.9	76.0	76.0	76.3	76.3	76.3	76.3	76.3
GE 2500	63.4	65.3	73.0	74.8	76.6	76.8	77.4	77.7	77.9	78.0	78.0	78.3	78.3	78.3	78.3	78.3
GE 2000	66.2	68.4	76.7	78.7	80.4	80.8	81.6	81.9	82.1	82.2	82.2	82.5	82.5	82.5	82.5	82.5
GE 1800	67.2	69.5	77.7	79.7	81.5	81.8	82.6	83.0	83.1	83.2	83.2	83.6	83.6	83.6	83.6	83.6
GE 1500	70.7	73.2	81.9	83.9	85.9	86.2	87.1	87.4	87.5	87.6	87.6	88.0	88.0	88.0	88.0	88.0
GE 1200	73.3	75.8	84.8	86.8	88.9	89.3	90.1	90.4	90.6	90.7	90.7	91.0	91.0	91.0	91.0	91.0
GE 1000	75.1	77.5	86.9	89.0	91.5	91.8	92.8	93.1	93.2	93.4	93.4	93.7	93.7	93.7	93.7	93.7
GE 900	75.8	78.2	87.9	90.2	92.9	93.2	94.2	94.5	94.6	94.8	94.8	95.1	95.1	95.1	95.1	95.1
GE 800	76.3	78.8	88.7	91.1	93.9	94.3	95.3	95.7	95.8	95.9	95.9	96.3	96.3	96.3	96.3	96.3
GE 700	76.7	79.3	89.3	91.8	94.9	95.3	96.4	96.7	96.9	97.0	97.0	97.3	97.3	97.3	97.3	97.3
GE 600	77.4	80.0	90.9	93.5	96.6	97.2	98.3	98.6	98.7	98.8	98.8	99.2	99.2	99.2	99.2	99.2
GE 500	77.5	80.1	91.3	93.8	97.1	97.7	98.7	99.1	99.2	99.3	99.3	99.7	99.7	99.7	99.7	99.7
GE 400	77.5	80.1	91.3	93.8	97.2	97.9	99.0	99.3	99.4	99.5	99.5	99.9	99.9	99.9	99.9	99.9
GE 300	77.5	80.1	91.3	93.8	97.2	97.9	99.0	99.3	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0
GE 200	77.5	80.1	91.3	93.8	97.2	97.9	99.0	99.3	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0
GE 100	77.5	80.1	91.3	93.8	97.2	97.9	99.0	99.3	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0
GE 000	77.5	80.1	91.3	93.8	97.2	97.9	99.0	99.3	99.4	99.5	99.7	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 858

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	31.7	32.8	33.8	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
GE 20000	37.5	38.7	40.1	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
GE 18000	37.6	38.8	40.2	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 16000	37.6	38.8	40.2	40.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
GE 14000	38.2	39.4	40.8	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 12000	38.5	39.6	41.0	41.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 10000	41.6	42.8	44.2	44.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 9000	42.8	43.9	45.3	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 8000	47.2	48.4	50.0	50.2	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
GE 7000	47.3	48.5	50.1	50.3	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
GE 6000	47.9	49.1	50.8	51.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
GE 5000	51.3	52.6	54.5	54.8	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
GE 4500	54.4	55.8	57.9	58.2	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 4000	59.8	61.3	63.5	63.8	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
GE 3500	68.8	70.9	73.7	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
GE 3000	76.3	78.6	81.7	81.9	82.4	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
GE 2500	79.8	82.2	85.4	85.7	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
GE 2000	83.0	85.4	89.5	89.7	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 1800	84.4	86.9	91.1	91.4	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
GE 1500	86.6	89.2	93.9	94.2	94.6	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
GE 1200	88.0	90.6	95.6	95.8	96.3	96.3	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 1000	88.7	91.4	96.4	96.6	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 900	89.0	91.7	97.1	97.3	97.8	97.8	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 800	89.0	91.7	97.7	97.9	98.4	98.4	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
GE 700	89.2	91.8	97.9	98.1	99.0	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 600	89.6	92.3	98.5	98.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 500	89.6	92.3	98.5	98.7	99.7	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	89.6	92.3	98.5	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	89.6	92.3	98.5	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	89.6	92.3	98.5	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	89.6	92.3	98.5	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	89.6	92.3	98.5	98.7	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 858

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	33.1	34.6	35.3	35.3	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
GE 20000	40.7	42.3	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE 18000	40.7	42.3	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE 16000	40.7	42.3	43.1	43.1	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
GE 14000	40.9	42.5	43.4	43.4	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
GE 12000	41.5	43.2	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2	44.2
GE 10000	45.8	47.6	48.6	48.6	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
GE 9000	47.0	48.7	49.9	49.9	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 8000	51.3	53.0	54.3	54.3	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 7000	52.1	54.0	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 6000	53.1	55.0	56.6	56.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
GE 5000	58.3	60.1	61.8	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 4500	61.9	63.8	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 4000	71.4	73.3	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
GE 3500	79.1	81.5	83.2	83.2	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
GE 3000	83.4	86.2	88.6	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
GE 2500	85.7	88.6	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
GE 2000	87.2	90.1	92.8	92.8	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 1800	88.3	91.3	94.1	94.1	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 1500	89.7	92.9	95.7	95.9	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 1200	90.2	93.4	96.4	96.6	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
GE 1000	90.6	93.7	96.7	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
GE 900	90.6	93.7	96.7	97.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 800	90.7	93.8	97.0	97.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 700	90.7	93.8	97.3	97.8	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 600	90.7	93.8	97.6	98.0	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 500	90.7	93.8	97.8	98.3	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	90.7	93.8	97.8	98.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	90.7	93.8	97.8	98.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	90.7	93.8	97.8	98.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	90.7	93.8	97.8	98.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	90.7	93.8	97.8	98.3	99.8	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 858

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	43.9	44.6	46.0	46.0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 20000	49.2	50.1	51.9	51.9	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 18000	49.5	50.5	52.2	52.2	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
GE 16000	49.5	50.5	52.2	52.2	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
GE 14000	49.9	50.8	52.6	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 12000	50.6	51.5	53.6	53.6	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
GE 10000	55.3	56.3	58.8	58.8	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
GE 9000	56.0	57.0	59.8	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 8000	61.3	62.6	65.5	65.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
GE 7000	61.9	63.2	66.4	66.6	66.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 6000	63.2	64.5	67.6	67.9	68.2	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
GE 5000	66.9	68.5	71.8	72.1	72.4	72.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
GE 4500	69.3	70.8	74.3	74.5	74.9	75.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
GE 4000	76.1	77.8	82.0	82.2	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 3500	79.8	81.8	86.3	86.7	87.1	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 3000	83.3	85.5	90.5	91.4	91.8	91.9	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 2500	84.1	86.3	91.5	92.3	93.0	93.1	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 2000	85.4	87.6	93.0	93.9	94.7	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 1800	86.0	88.2	93.7	94.6	95.4	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
GE 1500	87.3	89.6	95.1	96.0	96.8	97.0	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 1200	87.5	89.8	95.3	96.3	97.2	97.3	97.4	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
GE 1000	87.7	90.2	96.1	97.1	98.0	98.1	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
GE 900	88.1	90.5	96.8	97.9	98.8	98.9	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
GE 800	88.1	90.5	97.1	98.1	99.1	99.2	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 700	88.3	90.8	97.3	98.4	99.3	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 600	88.3	90.8	97.3	98.4	99.3	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
GE 500	88.3	90.8	97.4	98.5	99.4	99.5	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 400	88.3	90.8	97.4	98.5	99.4	99.6	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 300	88.4	90.9	97.5	98.6	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	88.4	90.9	97.5	98.6	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	88.4	90.9	97.5	98.6	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	88.4	90.9	97.5	98.6	99.5	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 856

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	49.4	51.2	52.5	52.8	53.2	53.2	53.2	53.2	53.2	53.2	53.4	53.4	53.4	53.4	53.4	53.4
GE 20000	53.6	55.8	58.0	58.4	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.4
GE 18000	53.6	55.8	58.0	58.4	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.4
GE 16000	53.6	55.8	58.0	58.4	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.4
GE 14000	53.6	55.9	58.3	58.8	59.4	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.7
GE 12000	54.1	56.4	58.9	59.4	60.1	60.1	60.1	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.4
GE 10000	57.1	59.6	62.1	62.5	63.4	63.4	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.7	64.0
GE 9000	58.0	60.4	62.9	63.5	64.4	64.5	64.8	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.3
GE 8000	63.5	66.2	68.8	69.4	70.3	70.4	70.7	70.8	70.8	70.8	70.9	70.9	70.9	70.9	70.9	71.1
GE 7000	64.1	66.8	69.6	70.3	71.3	71.5	71.7	71.8	71.8	71.8	72.0	72.0	72.0	72.0	72.0	72.2
GE 6000	64.5	67.3	70.1	70.8	71.7	72.0	72.2	72.3	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.7
GE 5000	67.4	70.1	72.9	73.6	74.6	74.8	75.3	75.4	75.4	75.4	75.5	75.5	75.5	75.5	75.5	75.7
GE 4500	70.9	73.6	76.6	77.5	78.4	78.7	79.2	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.6
GE 4000	75.0	77.9	81.7	82.9	84.0	84.2	84.9	85.0	85.0	85.0	85.2	85.2	85.2	85.2	85.2	85.4
GE 3500	78.7	81.6	85.6	86.9	88.0	88.2	88.9	89.0	89.0	89.0	89.2	89.2	89.2	89.2	89.2	89.4
GE 3000	80.7	83.6	87.8	89.0	90.2	90.5	91.2	91.3	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.6
GE 2500	81.5	84.5	88.7	90.0	91.3	91.5	92.2	92.3	92.3	92.3	92.5	92.5	92.5	92.5	92.5	92.7
GE 2000	82.9	85.9	90.2	91.5	92.8	93.1	93.9	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.3
GE 1800	83.3	86.2	90.7	92.0	93.3	93.5	94.3	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.8
GE 1500	84.1	87.0	91.5	92.8	94.1	94.3	95.2	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.6
GE 1200	84.2	87.2	91.9	93.2	94.5	94.7	95.5	95.6	95.6	95.6	95.8	95.8	95.8	95.8	95.8	96.0
GE 1000	84.3	87.3	92.1	93.4	94.8	95.1	95.9	96.0	96.0	96.0	96.1	96.1	96.1	96.1	96.1	96.3
GE 900	84.8	87.8	92.8	94.2	95.8	96.0	96.8	96.9	96.9	96.9	97.1	97.1	97.1	97.1	97.1	97.3
GE 800	85.2	88.1	93.2	94.7	96.2	96.5	97.3	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.8
GE 700	85.2	88.1	93.6	95.3	96.8	97.2	98.0	98.1	98.1	98.1	98.2	98.2	98.2	98.2	98.2	98.5
GE 600	85.2	88.1	94.0	95.6	97.3	97.6	98.5	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.9
GE 500	85.2	88.3	94.2	95.9	97.8	98.1	98.9	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.4
GE 400	85.2	88.3	94.3	96.1	98.0	98.4	99.2	99.3	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.6
GE 300	85.2	88.3	94.3	96.2	98.1	98.5	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.9
GE 200	85.2	88.3	94.3	96.2	98.1	98.5	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	99.9
GE 100	85.2	88.3	94.3	96.2	98.1	98.5	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	100.0
GE 000	85.2	88.3	94.3	96.2	98.1	98.5	99.3	99.4	99.4	99.4	99.6	99.6	99.6	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 849

D - 2 - 62

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	37.7	38.7	41.5	42.1	43.0	43.1	43.3	43.5	43.6	43.7	43.7	43.8	43.8	43.8	43.8	43.8
GE 20000	42.7	43.9	47.1	47.9	49.0	49.2	49.4	49.6	49.7	49.8	49.9	49.9	49.9	49.9	50.0	50.1
GE 18000	42.8	43.9	47.2	48.0	49.1	49.3	49.5	49.7	49.8	49.9	50.0	50.0	50.0	50.0	50.1	50.2
GE 16000	42.8	43.9	47.2	48.0	49.1	49.3	49.5	49.7	49.8	49.9	50.0	50.0	50.0	50.0	50.1	50.2
GE 14000	43.1	44.3	47.6	48.3	49.4	49.7	49.8	50.0	50.1	50.2	50.3	50.3	50.4	50.4	50.4	50.6
GE 12000	43.5	44.7	48.1	48.8	50.0	50.2	50.4	50.6	50.7	50.8	50.9	50.9	50.9	50.9	51.0	51.1
GE 10000	46.4	47.6	51.2	52.0	53.2	53.5	53.7	53.9	54.0	54.1	54.2	54.2	54.2	54.2	54.3	54.4
GE 9000	47.5	48.7	52.5	53.4	54.7	55.0	55.2	55.4	55.5	55.6	55.7	55.7	55.8	55.8	55.8	56.0
GE 8000	51.6	53.0	57.0	57.9	59.2	59.6	59.8	60.0	60.2	60.3	60.4	60.4	60.5	60.5	60.5	60.7
GE 7000	52.1	53.5	57.7	58.6	60.0	60.3	60.6	60.8	60.9	61.0	61.1	61.2	61.2	61.2	61.2	61.4
GE 6000	52.7	54.1	58.4	59.3	60.7	61.0	61.3	61.5	61.7	61.8	61.9	61.9	61.9	62.0	62.0	62.2
GE 5000	55.4	56.9	61.4	62.4	63.7	64.1	64.4	64.6	64.8	64.9	65.0	65.1	65.1	65.1	65.2	65.4
GE 4500	58.0	59.5	64.3	65.4	66.8	67.2	67.5	67.8	67.9	68.1	68.2	68.2	68.2	68.3	68.3	68.5
GE 4000	63.1	64.8	70.2	71.4	73.0	73.4	73.8	74.1	74.2	74.4	74.5	74.5	74.6	74.6	74.7	74.9
GE 3500	67.4	69.3	75.1	76.3	78.0	78.5	78.9	79.2	79.3	79.5	79.6	79.7	79.7	79.7	79.8	80.0
GE 3000	70.8	72.8	79.2	80.5	82.4	83.0	83.5	83.8	83.9	84.1	84.2	84.3	84.3	84.4	84.4	84.6
GE 2500	72.1	74.2	80.7	82.0	84.1	84.6	85.1	85.4	85.6	85.8	85.9	86.0	86.0	86.0	86.1	86.3
GE 2000	73.9	76.0	82.9	84.2	86.3	86.8	87.4	87.8	87.9	88.1	88.3	88.3	88.4	88.4	88.5	88.7
GE 1800	74.6	76.8	83.7	85.1	87.2	87.7	88.3	88.7	88.8	89.0	89.2	89.2	89.3	89.4	89.4	89.6
GE 1500	76.5	78.8	86.2	87.6	89.8	90.4	91.0	91.4	91.6	91.8	91.9	92.0	92.0	92.1	92.2	92.4
GE 1200	77.4	79.7	87.2	88.7	91.1	91.7	92.3	92.7	92.9	93.1	93.3	93.3	93.4	93.4	93.5	93.7
GE 1000	78.2	80.6	88.4	89.9	92.4	93.1	93.8	94.1	94.3	94.5	94.7	94.8	94.8	94.9	95.0	95.2
GE 900	78.6	81.0	89.0	90.7	93.2	93.9	94.5	94.9	95.1	95.3	95.5	95.6	95.6	95.7	95.8	96.0
GE 800	78.8	81.2	89.5	91.2	93.8	94.4	95.1	95.5	95.7	95.9	96.1	96.2	96.2	96.3	96.4	96.6
GE 700	79.1	81.4	89.9	91.6	94.4	95.0	95.8	96.2	96.4	96.6	96.7	96.8	96.9	96.9	97.0	97.2
GE 600	79.4	81.8	90.8	92.5	95.3	96.0	96.7	97.1	97.3	97.6	97.7	97.8	97.8	97.9	98.0	98.2
GE 500	79.5	81.9	91.1	92.9	95.8	96.5	97.3	97.7	97.9	98.2	98.3	98.4	98.5	98.5	98.6	98.8
GE 400	79.5	81.9	91.2	93.1	96.1	96.8	97.7	98.2	98.5	98.7	98.9	98.9	99.0	99.0	99.1	99.4
GE 300	79.6	81.9	91.3	93.1	96.2	97.0	97.9	98.5	98.7	98.9	99.2	99.3	99.3	99.4	99.5	99.7
GE 200	79.6	81.9	91.3	93.1	96.2	97.1	97.9	98.6	98.8	99.1	99.3	99.4	99.5	99.5	99.6	99.9
GE 100	79.6	81.9	91.3	93.1	96.2	97.1	97.9	98.6	98.8	99.1	99.3	99.4	99.5	99.5	99.7	100.0
GE 000	79.6	81.9	91.3	93.1	96.2	97.1	97.9	98.6	98.8	99.1	99.3	99.4	99.5	99.5	99.7	100.0

TOTAL NUMBER OF OBSERVATIONS 6817

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	49.9	51.7	55.2	55.9	57.5	58.3	58.7	58.7	58.7	58.8	59.1	59.1	59.1	59.3	59.5	59.5
GE 20000	53.3	55.2	59.1	59.9	61.4	62.2	62.6	62.6	62.6	62.7	63.1	63.1	63.1	63.2	63.4	63.4
GE 18000	53.3	55.2	59.1	59.9	61.4	62.2	62.6	62.6	62.6	62.7	63.1	63.1	63.1	63.2	63.4	63.4
GE 16000	53.3	55.2	59.1	59.9	61.4	62.2	62.6	62.6	62.6	62.7	63.1	63.1	63.1	63.2	63.4	63.4
GE 14000	53.3	55.2	59.1	59.9	61.4	62.2	62.6	62.6	62.6	62.7	63.1	63.1	63.1	63.2	63.4	63.4
GE 12000	53.4	55.4	59.4	60.1	61.6	62.5	62.8	62.8	62.8	63.0	63.3	63.3	63.3	63.4	63.7	63.7
GE 10000	56.2	58.3	62.8	63.9	65.7	66.7	67.1	67.1	67.1	67.3	67.6	67.6	67.6	67.7	68.0	68.0
GE 9000	57.0	59.3	63.9	65.0	66.8	67.7	68.2	68.2	68.2	68.3	68.7	68.7	68.7	68.8	69.1	69.1
GE 8000	59.9	62.1	67.1	68.3	70.1	71.1	71.6	71.6	71.6	71.7	72.0	72.0	72.0	72.2	72.4	72.4
GE 7000	60.3	62.8	67.9	69.3	71.1	72.3	72.9	72.9	72.9	73.0	73.4	73.4	73.4	73.5	73.7	73.7
GE 6000	60.8	63.3	68.5	69.9	71.7	72.9	73.5	73.5	73.5	73.6	74.0	74.0	74.0	74.1	74.3	74.3
GE 5000	63.0	65.5	70.7	72.2	74.0	75.1	75.7	75.7	75.7	75.9	76.2	76.2	76.2	76.3	76.6	76.6
GE 4500	66.1	68.6	74.1	75.5	77.3	78.5	79.1	79.1	79.1	79.2	79.6	79.6	79.6	79.7	79.9	79.9
GE 4000	68.6	71.1	77.1	78.5	80.3	81.6	82.2	82.3	82.3	82.4	82.8	82.8	82.8	83.0	83.3	83.3
GE 3500	71.4	74.1	80.3	82.0	84.2	85.5	86.1	86.4	86.4	86.7	87.1	87.1	87.1	87.3	87.6	37.6
GE 3000	72.6	75.5	81.8	83.5	85.8	87.1	87.7	87.9	87.9	88.3	88.6	88.6	88.6	88.9	89.1	89.1
GE 2500	73.0	75.9	82.2	84.0	86.6	87.9	88.6	88.9	88.9	89.2	89.6	89.6	89.8	90.1	90.3	90.3
GE 2000	73.6	76.5	83.2	85.1	87.7	89.4	90.1	90.4	90.4	90.8	91.2	91.2	91.4	91.6	91.9	91.9
GE 1800	73.7	76.6	83.3	85.2	87.8	89.5	90.3	90.7	90.7	91.0	91.4	91.4	91.6	91.9	92.1	92.1
GE 1500	74.2	77.2	83.9	85.8	88.5	90.2	91.0	91.4	91.4	91.8	92.1	92.1	92.4	92.6	92.8	92.8
GE 1200	75.1	78.3	84.9	86.9	89.7	91.4	92.2	92.6	92.6	93.0	93.3	93.3	93.5	93.8	94.0	94.0
GE 1000	75.4	78.5	85.2	87.1	90.0	91.6	92.5	92.8	92.8	93.2	93.5	93.5	93.8	94.0	94.3	94.3
GE 900	75.6	78.9	85.5	87.5	90.3	92.0	93.0	93.3	93.3	93.7	94.0	94.0	94.3	94.5	94.7	94.7
GE 800	75.7	79.0	85.8	87.7	90.7	92.4	93.3	93.7	93.7	94.0	94.4	94.4	94.6	94.9	95.1	95.1
GE 700	75.9	79.2	86.0	88.2	91.2	92.8	93.8	94.5	94.5	94.9	95.2	95.2	95.5	95.7	95.9	95.9
GE 600	75.9	79.2	86.1	88.3	91.3	93.0	93.9	94.6	94.6	95.0	95.3	95.3	95.6	95.8	96.1	96.1
GE 500	76.1	79.5	86.5	88.6	92.1	93.8	94.9	95.7	95.7	96.2	96.5	96.5	96.8	97.0	97.3	97.3
GE 400	76.2	79.6	87.0	89.1	92.6	94.3	95.3	96.3	96.4	96.9	97.4	97.4	97.6	97.8	98.1	98.1
GE 300	76.2	79.6	87.0	89.1	92.8	94.6	95.8	96.8	96.9	97.4	97.8	97.8	98.1	98.3	98.6	98.6
GE 200	76.2	79.6	87.0	89.1	92.8	94.6	95.8	96.8	96.9	97.5	98.0	98.0	98.2	98.4	98.9	98.9
GE 100	76.2	79.6	87.0	89.1	92.8	94.6	95.8	96.8	96.9	97.5	98.0	98.0	98.4	98.7	99.2	99.9
GE 000	76.2	79.6	87.0	89.1	92.8	94.6	95.8	96.8	96.9	97.5	98.0	98.0	98.4	98.8	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	36.2	37.6	43.5	44.3	46.6	47.0	47.9	48.7	49.1	50.1	50.4	50.7	50.7	50.9	51.3	51.4
GE 20000	39.7	41.2	47.3	48.3	50.9	51.3	52.4	53.3	53.6	54.6	55.0	55.2	55.2	55.6	55.9	56.0
GE 18000	39.7	41.2	47.3	48.3	50.9	51.3	52.4	53.3	53.6	54.6	55.0	55.2	55.2	55.6	55.9	56.0
GE 16000	39.7	41.2	47.3	48.3	50.9	51.3	52.4	53.3	53.6	54.6	55.0	55.2	55.2	55.6	55.9	56.0
GE 14000	39.7	41.2	47.3	48.3	50.9	51.3	52.4	53.3	53.6	54.7	55.1	55.3	55.3	55.7	56.0	56.2
GE 12000	39.7	41.2	47.4	48.4	51.0	51.4	52.6	53.4	53.8	54.8	55.2	55.4	55.4	55.8	56.2	56.3
GE 10000	41.3	43.1	49.9	51.1	54.1	54.7	55.9	56.8	57.1	58.2	58.5	58.8	58.8	59.1	59.5	59.7
GE 9000	42.3	44.1	50.9	52.1	55.3	55.9	57.1	57.9	58.3	59.4	59.7	60.0	60.0	60.3	60.7	60.9
GE 8000	45.3	47.4	54.7	55.9	59.3	60.0	61.2	62.0	62.4	63.4	63.8	64.0	64.0	64.4	64.8	65.0
GE 7000	46.0	48.1	55.4	56.8	60.1	60.8	62.2	63.4	63.8	65.0	65.4	65.6	65.6	66.1	66.4	66.7
GE 6000	46.2	48.4	55.7	57.0	60.3	61.1	62.5	63.7	64.0	65.2	65.6	65.8	65.8	66.3	66.7	66.9
GE 5000	47.4	49.7	57.1	58.4	61.8	62.5	63.9	65.1	65.5	66.7	67.0	67.3	67.3	67.7	68.1	68.3
GE 4500	50.2	52.4	60.2	61.5	64.9	65.6	67.0	68.3	68.7	69.9	70.3	70.5	70.5	71.0	71.3	71.6
GE 4000	53.8	56.4	64.8	66.4	69.8	70.5	71.9	73.4	73.7	75.0	75.4	75.6	75.7	76.2	76.6	76.8
GE 3500	56.9	59.5	68.0	69.7	73.0	73.8	75.4	76.9	77.4	78.7	79.2	79.5	79.7	80.2	80.5	80.8
GE 3000	58.4	61.1	70.5	72.3	75.7	76.7	78.5	80.5	81.1	82.4	83.0	83.3	83.6	84.1	84.5	84.7
GE 2500	59.1	61.8	71.2	73.0	76.5	77.8	79.6	81.6	82.2	83.5	84.1	84.3	84.7	85.2	85.5	85.8
GE 2000	60.5	63.2	73.1	75.0	78.6	79.9	81.8	83.9	84.5	85.8	86.4	86.6	87.0	87.5	87.8	88.1
GE 1800	60.9	63.8	73.8	75.9	79.5	80.8	82.7	84.7	85.3	86.6	87.2	87.5	87.8	88.3	88.6	88.9
GE 1500	61.5	64.5	74.6	76.6	80.2	81.5	83.4	85.4	86.3	87.6	88.2	88.4	88.8	89.2	89.6	89.8
GE 1200	62.2	65.2	75.5	77.5	81.2	82.6	84.5	86.6	87.5	88.8	89.4	89.6	90.0	90.4	90.8	91.0
GE 1000	62.7	65.9	76.3	78.4	82.1	83.5	85.5	87.8	88.6	90.0	90.6	90.8	91.2	91.6	92.0	92.2
GE 900	62.8	66.1	76.5	78.5	82.2	83.6	85.7	87.9	88.8	90.1	90.7	90.9	91.3	91.8	92.1	92.4
GE 800	63.3	66.5	77.1	79.1	82.8	84.2	86.4	88.6	89.5	90.8	91.4	91.6	92.0	92.5	92.8	93.1
GE 700	63.6	66.8	77.3	79.3	83.0	84.5	86.6	88.9	89.7	91.0	91.6	91.9	92.2	92.7	93.1	93.3
GE 600	63.9	67.1	77.8	79.8	83.5	84.9	87.1	89.4	90.2	91.5	92.2	92.5	92.8	93.3	93.7	93.9
GE 500	64.0	67.3	78.0	80.2	84.0	85.5	87.7	90.2	91.2	92.6	93.3	93.5	93.9	94.4	94.7	95.0
GE 400	64.0	67.3	78.0	80.4	84.2	86.0	88.2	90.7	91.6	93.2	93.9	94.1	94.5	95.0	95.3	95.6
GE 300	64.2	67.4	78.1	80.5	84.3	86.1	88.3	90.8	92.0	93.5	94.3	94.5	95.0	95.5	95.8	96.1
GE 200	64.2	67.4	78.1	80.5	84.3	86.1	88.3	90.9	92.1	93.8	94.5	94.7	95.6	96.2	96.9	97.1
GE 100	64.2	67.4	78.1	80.5	84.5	86.4	88.5	91.2	92.4	94.0	94.7	95.1	95.9	96.8	97.7	99.8
GE 000	64.2	67.4	78.1	80.5	84.5	86.4	88.5	91.2	92.4	94.0	94.7	95.1	95.9	96.8	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	20.3	21.3	27.8	28.7	31.9	33.0	34.2	35.5	36.0	36.9	37.0	37.4	37.8	37.9	38.0	38.7
GE 20000	23.4	24.5	31.2	32.3	35.8	36.9	38.1	39.4	39.9	40.9	41.0	41.3	41.7	41.8	41.9	42.8
GE 18000	23.5	24.6	31.3	32.4	36.0	37.0	38.2	39.5	40.0	41.0	41.1	41.5	41.8	41.9	42.1	42.9
GE 16000	23.5	24.6	31.3	32.4	36.0	37.0	38.2	39.5	40.0	41.0	41.1	41.5	41.8	41.9	42.1	42.9
GE 14000	23.9	25.0	31.7	32.7	36.3	37.4	38.6	39.9	40.4	41.3	41.5	41.8	42.2	42.3	42.4	43.2
GE 12000	24.4	25.4	32.5	33.6	37.3	38.4	39.5	40.9	41.3	42.3	42.4	42.8	43.1	43.2	43.4	44.3
GE 10000	26.9	28.0	36.1	37.5	41.3	42.5	43.7	45.3	45.8	46.7	46.8	47.2	47.6	47.7	47.9	48.9
GE 9000	27.5	28.7	37.3	38.8	42.7	43.8	45.0	46.6	47.1	48.0	48.1	48.5	48.9	49.0	49.2	50.2
GE 8000	30.7	32.1	41.1	42.9	47.0	48.5	49.7	51.4	52.0	52.9	53.0	53.5	53.9	54.0	54.2	55.3
GE 7000	31.2	32.6	41.8	43.6	47.8	49.3	50.7	52.3	53.3	54.2	54.4	54.8	55.2	55.4	55.7	56.8
GE 6000	31.5	33.0	42.2	44.1	48.3	49.8	51.1	52.8	53.8	54.7	54.8	55.3	55.7	55.9	56.2	57.2
GE 5000	32.6	34.1	43.6	45.6	49.9	51.5	52.8	54.6	55.6	56.5	56.6	57.1	57.6	57.8	58.1	59.1
GE 4500	34.6	36.4	46.1	48.1	52.6	54.2	55.8	57.7	58.7	59.7	60.0	60.5	60.9	61.2	61.4	62.5
GE 4000	37.6	39.4	49.9	52.2	56.8	58.5	60.3	62.2	63.3	64.4	64.6	65.1	65.6	65.8	66.1	67.1
GE 3500	39.8	41.6	52.8	55.4	60.1	61.9	63.8	65.8	67.1	68.6	68.8	69.3	69.8	70.0	70.6	71.7
GE 3000	42.1	44.0	55.6	58.2	63.2	65.2	67.1	69.7	71.2	72.8	73.0	73.5	74.0	74.2	74.9	76.0
GE 2500	43.0	44.9	56.5	59.3	64.4	66.4	68.3	70.8	72.4	74.0	74.2	74.7	75.1	75.4	76.3	77.4
GE 2000	45.0	47.1	59.0	61.9	67.4	69.7	71.8	74.4	76.0	77.5	77.9	78.4	78.9	79.1	80.0	81.1
GE 1800	45.8	47.8	59.7	62.6	68.1	70.4	72.6	75.3	76.9	78.5	78.9	79.3	79.8	80.0	81.0	82.1
GE 1500	47.2	49.2	61.3	64.3	70.3	72.5	74.8	77.4	79.1	80.6	81.0	81.5	82.0	82.2	83.2	84.2
GE 1200	48.5	50.7	62.8	65.8	71.8	74.7	77.2	79.8	81.5	83.0	83.4	83.9	84.3	84.6	85.5	86.6
GE 1000	49.1	51.3	63.9	66.9	72.9	75.7	78.4	81.1	82.8	84.3	84.7	85.3	85.8	86.0	87.0	88.1
GE 900	49.8	52.0	65.0	68.0	74.0	76.9	79.6	82.3	84.0	85.7	86.0	86.6	87.1	87.3	88.3	89.4
GE 800	50.3	52.4	65.5	68.7	74.7	77.8	80.4	83.2	84.8	86.5	86.9	87.5	88.1	88.3	89.2	90.3
GE 700	50.5	52.7	66.5	69.8	75.7	78.9	81.5	84.2	85.9	87.6	87.9	88.5	89.2	89.6	90.6	91.6
GE 600	50.8	52.9	67.0	70.3	76.3	79.5	82.1	84.8	86.7	88.4	88.9	89.5	90.2	90.6	91.5	92.6
GE 500	50.9	53.0	67.4	70.6	76.8	79.9	82.7	85.7	87.8	89.6	90.1	90.7	91.8	92.1	93.1	94.1
GE 400	50.9	53.0	67.5	70.7	77.1	80.3	83.0	86.1	88.4	90.3	90.8	91.4	92.5	92.8	93.8	95.2
GE 300	50.9	53.0	67.5	70.7	77.1	80.4	83.3	86.9	89.4	91.5	92.0	92.7	93.8	94.1	95.2	96.7
GE 200	50.9	53.0	67.5	70.7	77.1	80.4	83.3	86.9	89.5	91.8	92.2	93.1	94.1	94.7	95.8	97.8
GE 100	50.9	53.0	67.5	70.7	77.1	80.4	83.3	86.9	89.5	91.9	92.4	93.2	94.3	95.0	96.8	99.9
GE 000	50.9	53.0	67.5	70.7	77.1	80.4	83.3	86.9	89.5	91.9	92.4	93.2	94.3	95.0	96.8	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	28.3	29.5	35.2	36.1	37.9	38.2	38.5	38.6	38.8	39.1	39.2	39.2	39.2	39.3	39.3	39.3
GE 20000	33.5	34.6	40.6	41.5	43.2	43.6	43.8	44.0	44.2	44.4	44.6	44.6	44.6	44.7	44.7	44.7
GE 18000	33.5	34.6	40.6	41.5	43.2	43.6	43.8	44.0	44.2	44.4	44.6	44.6	44.6	44.7	44.7	44.7
GE 16000	33.5	34.6	40.6	41.5	43.2	43.6	43.8	44.0	44.2	44.4	44.6	44.6	44.6	44.7	44.7	44.7
GE 14000	34.1	35.2	41.2	42.1	43.8	44.2	44.4	44.6	44.8	45.0	45.2	45.2	45.2	45.3	45.3	45.3
GE 12000	34.6	35.8	41.9	42.8	44.6	45.0	45.3	45.4	45.6	45.9	46.0	46.0	46.0	46.1	46.1	46.1
GE 10000	37.3	38.5	44.9	45.8	47.9	48.5	48.9	49.0	49.2	49.5	49.6	49.6	49.6	49.7	49.7	49.7
GE 9000	38.1	39.3	46.0	46.8	49.0	49.6	50.1	50.2	50.4	50.7	50.8	50.8	50.8	50.9	50.9	50.9
GE 8000	41.7	42.9	50.3	51.1	53.3	54.0	54.6	54.7	55.0	55.2	55.3	55.3	55.3	55.4	55.4	55.4
GE 7000	41.9	43.1	50.7	51.5	53.8	54.5	55.2	55.3	55.6	55.8	55.9	55.9	55.9	56.0	56.0	56.0
GE 6000	42.3	43.5	51.0	51.9	54.1	54.8	55.6	55.7	55.9	56.2	56.3	56.3	56.3	56.4	56.4	56.4
GE 5000	43.2	44.4	52.2	53.0	55.3	56.2	56.9	57.0	57.2	57.5	57.6	57.6	57.6	57.7	57.7	57.7
GE 4500	44.7	46.0	53.9	54.7	57.0	57.8	58.5	58.8	59.0	59.3	59.4	59.4	59.4	59.5	59.5	59.5
GE 4000	48.0	49.5	57.7	58.5	60.9	61.9	62.8	63.1	63.3	63.6	63.7	63.7	63.7	63.8	63.8	63.8
GE 3500	51.0	52.6	61.5	62.6	65.2	66.5	67.6	68.0	68.2	68.5	68.6	68.6	68.6	68.7	68.7	68.7
GE 3000	56.2	57.9	67.7	69.1	72.2	73.5	74.9	75.6	75.9	76.1	76.2	76.2	76.2	76.3	76.3	76.3
GE 2500	57.6	59.7	69.8	71.1	74.3	75.6	77.1	77.8	78.0	78.3	78.4	78.4	78.4	78.5	78.5	78.5
GE 2000	60.5	63.0	74.0	75.3	78.5	79.8	81.2	82.0	82.2	82.4	82.6	82.6	82.6	82.7	82.7	82.7
GE 1800	61.1	63.6	74.6	75.9	79.1	80.4	82.0	82.7	82.9	83.2	83.3	83.3	83.3	83.4	83.4	83.4
GE 1500	63.9	66.8	78.0	79.7	83.5	84.9	86.5	87.2	87.6	87.8	87.9	87.9	87.9	88.1	88.1	88.1
GE 1200	65.4	68.2	80.0	82.0	85.9	87.5	89.1	90.0	90.3	90.7	90.8	90.8	90.8	90.9	90.9	90.9
GE 1000	66.4	69.3	81.2	83.2	87.3	89.0	90.8	91.6	92.1	92.5	92.6	92.6	92.7	92.8	92.8	92.8
GE 900	66.8	69.8	82.1	84.2	88.4	90.1	92.0	92.8	93.3	93.7	93.8	93.8	94.0	94.1	94.1	94.1
GE 800	66.9	69.9	82.3	84.5	88.6	90.3	92.2	93.1	93.5	93.9	94.0	94.0	94.3	94.4	94.4	94.4
GE 700	67.4	70.4	82.8	84.9	89.7	91.4	93.3	94.3	94.7	95.1	95.3	95.3	95.6	95.7	95.7	95.7
GE 600	67.4	70.5	83.3	85.4	90.9	92.6	94.6	95.7	96.4	96.8	97.0	97.0	97.3	97.4	97.4	97.4
GE 500	67.6	70.7	83.5	85.7	91.3	93.1	95.3	96.4	97.3	97.6	98.0	98.0	98.2	98.3	98.3	98.3
GE 400	67.6	70.7	83.5	85.7	91.8	93.5	95.8	96.9	97.8	98.3	98.7	98.7	98.9	99.0	99.0	99.2
GE 300	67.6	70.7	83.5	85.7	91.8	93.5	95.8	96.9	97.8	98.3	98.7	98.7	98.9	99.0	99.0	99.2
GE 200	67.6	70.7	83.5	85.7	91.8	93.5	95.8	96.9	97.8	98.4	99.0	99.0	99.4	99.5	99.5	99.8
GE 100	67.6	70.7	83.5	85.7	91.8	93.5	95.8	96.9	97.8	98.4	99.2	99.2	99.5	99.6	99.6	100.0
GE 000	67.6	70.7	83.5	85.7	91.8	93.5	95.8	96.9	97.8	98.4	99.2	99.2	99.5	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	32.4	34.4	36.1	36.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
GE 20000	39.5	41.9	43.7	43.8	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
GE 18000	39.5	41.9	43.7	43.8	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
GE 16000	39.5	41.9	43.7	43.8	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
GE 14000	40.3	42.7	44.4	44.6	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
GE 12000	40.9	43.2	45.0	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE 10000	43.2	45.6	47.4	47.6	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
GE 9000	43.6	46.0	47.8	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
GE 8000	45.8	48.7	50.5	50.7	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 7000	47.1	50.1	51.9	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 6000	47.2	50.2	52.0	52.1	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
GE 5000	49.3	52.3	54.6	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 4500	51.9	54.8	57.5	57.7	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
GE 4000	57.3	60.8	64.0	64.3	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
GE 3500	63.0	67.1	71.4	71.9	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
GE 3000	71.8	76.8	81.8	82.4	83.5	83.6	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 2500	74.6	79.8	85.1	85.8	87.0	87.1	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 2000	77.7	83.2	88.8	89.5	90.7	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1800	78.0	83.5	89.2	90.0	91.2	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
GE 1500	79.6	85.1	91.3	92.1	93.3	93.8	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 1200	81.1	86.7	93.3	94.3	95.5	95.9	96.2	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 1000	81.8	87.5	94.1	95.1	96.5	97.0	97.3	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 900	82.1	87.7	95.1	96.1	97.5	98.0	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6
GE 800	82.3	87.9	95.3	96.3	97.7	98.2	98.6	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 700	82.7	88.3	95.8	96.8	98.2	98.7	99.0	99.3	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 600	82.7	88.3	95.9	97.1	98.6	99.0	99.4	99.6	99.6	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	82.8	88.4	96.1	97.3	98.7	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	82.8	88.4	96.1	97.3	98.7	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	82.8	88.4	96.1	97.3	98.7	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	82.8	88.4	96.1	97.3	98.7	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	82.8	88.4	96.1	97.3	98.7	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	82.8	88.4	96.1	97.3	98.7	99.2	99.6	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	33.3	34.4	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
GE 20000	42.7	44.2	45.5	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 18000	42.7	44.2	45.5	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 16000	42.7	44.2	45.5	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
GE 14000	43.0	44.6	45.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
GE 12000	43.6	45.5	47.1	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
GE 10000	47.3	49.8	52.0	52.3	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 9000	47.6	50.1	52.3	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
GE 8000	52.1	55.0	57.3	57.7	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
GE 7000	52.6	55.6	58.2	58.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 6000	52.7	55.7	58.3	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
GE 5000	56.0	59.3	62.0	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 4500	60.3	63.8	66.7	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
GE 4000	68.9	72.8	76.0	76.3	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 3500	74.3	78.5	82.4	82.9	83.8	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 3000	78.7	83.3	87.9	88.6	89.6	89.8	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
GE 2500	80.3	84.8	89.7	90.6	91.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
GE 2000	82.6	87.2	92.5	93.3	94.4	94.6	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
GE 1800	82.8	87.6	92.8	93.7	94.7	95.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
GE 1500	84.1	88.9	94.5	95.3	96.4	96.7	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
GE 1200	84.7	89.5	95.2	96.2	97.3	97.5	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
GE 1000	85.2	90.0	95.8	96.8	98.0	98.2	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 900	85.3	90.1	95.9	96.9	98.1	98.3	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
GE 800	85.4	90.2	96.1	97.0	98.2	98.4	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
GE 700	85.5	90.3	96.5	97.5	98.7	98.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
GE 600	85.7	90.4	96.7	97.6	98.9	99.2	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
GE 500	85.7	90.4	96.7	97.6	98.9	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
GE 400	85.8	90.6	96.8	97.7	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	85.8	90.6	96.8	97.7	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	85.8	90.6	96.8	97.7	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	85.8	90.6	96.8	97.7	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	85.8	90.6	96.8	97.7	99.0	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	42.1	44.2	45.0	45.2	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE 20000	50.3	52.8	54.0	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 18000	50.3	52.8	54.0	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 16000	50.3	52.8	54.0	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
GE 14000	50.8	53.3	54.5	54.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
GE 12000	52.0	54.5	55.7	56.0	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
GE 10000	54.6	57.3	58.7	59.0	59.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
GE 9000	56.4	59.1	60.6	60.9	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
GE 8000	59.5	62.6	64.3	64.6	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 7000	60.7	63.8	65.7	66.1	66.9	67.1	67.1	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
GE 6000	61.1	64.2	66.1	66.4	67.3	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
GE 5000	66.4	69.5	71.7	72.0	72.9	73.1	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 4500	70.8	74.1	76.3	76.7	77.5	77.8	77.8	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
GE 4000	76.0	79.8	82.8	83.2	84.1	84.3	84.3	84.5	84.5	84.5	84.5	84.5	84.5	84.6	84.6	84.6
GE 3500	79.9	83.9	87.2	87.6	88.5	88.9	89.1	89.2	89.2	89.4	89.4	89.4	89.4	89.5	89.5	89.5
GE 3000	82.6	86.7	90.4	90.8	91.8	92.5	92.7	92.8	92.8	93.0	93.0	93.0	93.0	93.1	93.1	93.1
GE 2500	83.5	87.7	91.5	91.9	92.8	93.5	93.8	93.9	93.9	94.0	94.0	94.0	94.0	94.1	94.1	94.1
GE 2000	85.1	89.4	93.3	93.7	94.6	95.3	95.6	95.7	95.7	95.8	95.8	95.8	95.8	95.9	95.9	95.9
GE 1800	85.2	89.5	93.4	93.8	94.7	95.5	95.7	95.8	95.8	95.9	95.9	95.9	95.9	96.1	96.1	96.1
GE 1500	85.7	90.0	94.0	94.4	95.3	96.1	96.3	96.4	96.4	96.5	96.5	96.5	96.5	96.7	96.7	96.7
GE 1200	86.9	91.2	95.5	95.9	97.1	98.0	98.3	98.4	98.4	98.6	98.6	98.6	98.6	98.7	98.7	98.7
GE 1000	87.0	91.3	95.7	96.2	97.4	98.3	98.7	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
GE 900	87.0	91.3	95.7	96.2	97.4	98.3	98.7	98.8	98.8	98.9	98.9	98.9	98.9	99.0	99.0	99.0
GE 800	87.0	91.3	95.8	96.3	97.8	98.8	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5
GE 700	87.0	91.3	95.8	96.3	97.8	98.8	99.2	99.3	99.3	99.4	99.4	99.4	99.4	99.5	99.5	99.5
GE 600	87.0	91.3	95.8	96.3	97.8	98.8	99.2	99.5	99.5	99.6	99.6	99.6	99.6	99.8	99.8	99.8
GE 500	87.0	91.3	95.9	96.4	98.1	99.0	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 400	87.0	91.3	95.9	96.4	98.1	99.0	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 300	87.0	91.3	95.9	96.4	98.1	99.0	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 200	87.0	91.3	95.9	96.4	98.1	99.0	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 100	87.0	91.3	95.9	96.4	98.1	99.0	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0
GE 000	87.0	91.3	95.9	96.4	98.1	99.0	99.4	99.8	99.8	99.9	99.9	99.9	99.9	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	50.8	54.4	55.7	55.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.0	56.0
GE 20000	56.2	59.9	61.2	61.4	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9	61.9
GE 18000	56.2	59.9	61.2	61.4	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9	61.9
GE 16000	56.2	59.9	61.2	61.4	61.6	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.9	61.9
GE 14000	56.3	60.0	61.3	61.5	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	62.0	62.0
GE 12000	56.4	60.1	61.4	61.6	61.9	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.1	62.1
GE 10000	60.6	64.6	66.5	67.1	67.5	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.9	67.9
GE 9000	61.3	65.5	67.5	68.1	68.5	68.6	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	69.1	69.1
GE 8000	63.9	68.5	71.0	71.6	72.0	72.2	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.6	72.6
GE 7000	64.6	69.2	71.8	72.4	73.1	73.4	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8
GE 6000	65.1	69.7	72.3	72.9	73.6	73.8	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.3	74.3
GE 5000	68.8	73.5	76.3	76.9	77.7	77.9	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4
GE 4500	72.2	76.8	79.9	80.5	81.5	81.7	81.8	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.2
GE 4000	76.1	80.8	84.0	84.6	85.9	86.4	86.6	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.0
GE 3500	79.0	84.0	87.7	88.3	89.6	90.2	90.4	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.8	90.8
GE 3000	80.6	85.8	89.6	90.2	91.8	92.5	92.7	93.1	93.1	93.1	93.1	93.2	93.2	93.2	93.3	93.3
GE 2500	81.4	86.6	90.8	91.4	93.1	93.8	94.0	94.4	94.4	94.4	94.4	94.5	94.5	94.5	94.6	94.6
GE 2000	82.1	87.3	91.5	92.1	93.8	94.6	94.9	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.5	95.5
GE 1800	82.2	87.5	91.6	92.2	93.9	94.9	95.2	95.6	95.6	95.6	95.6	95.7	95.7	95.7	95.8	95.8
GE 1500	82.7	87.9	92.1	92.7	94.4	95.3	95.7	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.4	96.4
GE 1200	83.2	88.4	92.6	93.2	94.9	95.9	96.3	96.9	96.9	96.9	96.9	97.0	97.0	97.0	97.1	97.1
GE 1000	83.5	88.8	93.2	93.8	95.5	96.7	97.0	97.6	97.6	97.6	97.6	97.7	97.7	97.7	97.8	97.8
GE 900	83.6	88.9	93.3	93.9	95.6	96.8	97.1	97.7	97.7	97.7	97.7	97.8	97.8	97.8	98.0	98.0
GE 800	83.8	89.0	93.4	94.1	95.8	97.0	97.4	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.2	98.2
GE 700	84.0	89.2	93.8	94.5	96.2	97.4	97.7	98.4	98.4	98.4	98.4	98.6	98.6	98.6	98.7	98.7
GE 600	84.0	89.2	93.9	94.6	96.3	97.5	98.0	98.7	98.7	98.7	98.7	98.8	98.8	98.8	98.9	98.9
GE 500	84.0	89.2	93.9	94.9	96.7	97.8	98.4	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.5	99.5
GE 400	84.0	89.2	93.9	94.9	96.9	98.1	98.7	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.8	99.8
GE 300	84.0	89.2	93.9	94.9	96.9	98.1	98.7	99.5	99.5	99.8	99.8	99.9	99.9	99.9	100.0	100.0
GE 200	84.0	89.2	93.9	94.9	96.9	98.1	98.7	99.5	99.5	99.8	99.8	99.9	99.9	99.9	100.0	100.0
GE 100	84.0	89.2	93.9	94.9	96.9	98.1	98.7	99.5	99.5	99.8	99.8	99.9	99.9	99.9	100.0	100.0
GE 000	84.0	89.2	93.9	94.9	96.9	98.1	98.7	99.5	99.5	99.8	99.8	99.9	99.9	99.9	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 837

D - 2 - 71

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: AUG HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	36.7	38.4	41.7	42.1	43.3	43.6	44.0	44.3	44.4	44.7	44.8	44.9	44.9	45.0	45.1	45.2
GE 20000	42.3	44.3	47.8	48.4	49.7	50.0	50.4	50.7	50.8	51.1	51.2	51.3	51.3	51.4	51.5	51.7
GE 18000	42.3	44.3	47.8	48.4	49.7	50.0	50.4	50.7	50.8	51.1	51.2	51.3	51.4	51.4	51.6	51.7
GE 16000	42.3	44.3	47.8	48.4	49.7	50.0	50.4	50.7	50.8	51.1	51.2	51.3	51.4	51.4	51.6	51.7
GE 14000	42.7	44.6	48.2	48.8	50.0	50.4	50.7	51.0	51.2	51.5	51.6	51.7	51.7	51.8	51.9	52.0
GE 12000	43.1	45.2	48.8	49.4	50.7	51.0	51.4	51.7	51.8	52.1	52.2	52.3	52.4	52.4	52.6	52.7
GE 10000	45.9	48.2	52.3	53.0	54.6	55.0	55.4	55.7	55.9	56.2	56.3	56.4	56.4	56.5	56.6	56.8
GE 9000	46.7	49.0	53.3	54.0	55.6	56.1	56.5	56.8	57.0	57.3	57.4	57.5	57.5	57.6	57.7	57.9
GE 8000	49.9	52.4	57.0	57.9	59.5	60.0	60.5	60.8	61.0	61.3	61.4	61.5	61.5	61.6	61.7	61.9
GE 7000	50.6	53.2	57.9	58.8	60.4	61.0	61.5	62.0	62.2	62.5	62.6	62.7	62.7	62.8	63.0	63.1
GE 6000	50.9	53.5	58.2	59.1	60.8	61.4	61.9	62.3	62.5	62.8	62.9	63.0	63.1	63.2	63.3	63.5
GE 5000	53.4	56.0	61.0	61.9	63.6	64.2	64.8	65.2	65.4	65.7	65.8	65.9	66.0	66.1	66.2	66.4
GE 4500	56.3	59.1	64.3	65.2	67.0	67.6	68.1	68.6	68.8	69.1	69.3	69.4	69.4	69.5	69.7	69.8
GE 4000	60.8	63.8	69.5	70.5	72.3	73.0	73.7	74.2	74.4	74.7	74.9	74.9	75.0	75.2	75.3	75.4
GE 3500	64.4	67.7	73.9	75.0	77.1	77.9	78.6	79.2	79.5	79.9	80.0	80.1	80.2	80.4	80.5	80.7
GE 3000	67.9	71.4	78.2	79.4	81.7	82.6	83.5	84.2	84.5	85.0	85.1	85.2	85.3	85.5	85.7	85.8
GE 2500	69.1	72.7	79.6	80.9	83.3	84.2	85.1	85.9	86.2	86.6	86.8	86.9	87.0	87.2	87.4	87.5
GE 2000	70.9	74.6	81.9	83.2	85.7	86.8	87.7	88.5	88.8	89.2	89.4	89.5	89.6	89.8	90.0	90.1
GE 1800	71.2	75.0	82.3	83.6	86.1	87.2	88.2	89.0	89.3	89.7	89.9	90.0	90.1	90.3	90.5	90.7
GE 1500	72.4	76.2	83.7	85.1	87.7	88.9	89.9	90.7	91.0	91.5	91.7	91.8	91.9	92.0	92.2	92.4
GE 1200	73.4	77.3	85.0	86.5	89.2	90.4	91.5	92.3	92.7	93.2	93.4	93.5	93.6	93.7	94.0	94.1
GE 1000	73.9	77.8	85.7	87.2	89.9	91.3	92.4	93.2	93.6	94.1	94.3	94.4	94.5	94.7	94.9	95.1
GE 900	74.1	78.1	86.1	87.6	90.4	91.8	92.9	93.8	94.2	94.7	94.8	95.0	95.1	95.3	95.5	95.6
GE 800	74.3	78.3	86.4	88.0	90.8	92.1	93.3	94.2	94.6	95.1	95.3	95.4	95.5	95.7	95.9	96.1
GE 700	74.6	78.5	86.8	88.4	91.3	92.7	93.8	94.8	95.2	95.7	95.9	96.0	96.2	96.3	96.6	96.7
GE 600	74.7	78.6	87.1	88.7	91.7	93.1	94.3	95.3	95.7	96.2	96.4	96.5	96.7	96.9	97.1	97.3
GE 500	74.8	78.7	87.2	88.9	92.1	93.5	94.7	95.8	96.3	96.9	97.1	97.2	97.5	97.6	97.8	98.0
GE 400	74.8	78.8	87.3	89.0	92.3	93.7	95.0	96.1	96.7	97.3	97.5	97.6	97.9	98.0	98.3	98.5
GE 300	74.8	78.8	87.4	89.0	[illegible]	93.8	95.1	96.3	96.9	97.6	97.8	97.9	98.2	98.4	98.6	98.8
GE 200	74.8	78.8	87.4	89.0	[illegible]	93.8	95.1	96.3	96.9	97.6	97.9	98.1	98.4	98.6	98.9	99.2
GE 100	74.8	78.8	87.4	89.0	92.4	93.8	95.1	96.4	97.0	97.7	98.0	98.1	98.5	98.7	99.2	99.9
GE 000	74.8	78.8	87.4	89.0	92.4	93.8	95.1	96.4	97.0	97.7	98.0	98.1	98.5	98.8	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS 6696

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	36.7	37.0	43.1	44.2	46.4	46.8	47.7	48.1	48.9	50.1	50.4	50.5	50.6	51.2	51.2	51.4
GE 20000	40.6	41.2	47.9	49.4	51.9	52.2	53.1	53.6	54.6	55.9	56.3	56.4	56.5	57.2	57.2	57.3
GE 18000	40.6	41.2	47.9	49.4	51.9	52.2	53.1	53.6	54.6	55.9	56.3	56.4	56.5	57.2	57.2	57.3
GE 16000	40.6	41.2	47.9	49.4	51.9	52.2	53.1	53.6	54.6	55.9	56.3	56.4	56.5	57.2	57.2	57.3
GE 14000	41.2	41.9	48.5	50.0	52.5	52.8	53.7	54.2	55.2	56.5	56.9	57.0	57.2	57.8	57.8	57.9
GE 12000	41.6	42.2	48.9	50.4	52.8	53.2	54.1	54.6	55.6	56.9	57.3	57.4	57.5	58.1	58.1	58.3
GE 10000	44.3	44.9	52.5	54.1	56.7	57.2	58.3	58.8	59.8	61.1	61.5	61.6	61.7	62.3	62.3	62.5
GE 9000	45.6	46.2	54.0	55.6	58.1	58.6	59.8	60.2	61.2	62.6	63.0	63.1	63.2	63.8	63.8	64.0
GE 8000	48.5	49.3	57.2	59.0	62.0	62.5	63.7	64.2	65.2	66.5	66.9	67.0	67.2	67.8	67.8	67.9
GE 7000	48.8	49.5	57.4	59.4	62.3	62.8	64.1	64.6	65.6	66.9	67.3	67.4	67.5	68.1	68.1	68.3
GE 6000	48.8	49.5	57.4	59.4	62.3	62.8	64.1	64.6	65.6	66.9	67.3	67.4	67.5	68.1	68.1	68.3
GE 5000	50.4	51.2	59.1	61.1	64.1	64.6	65.8	66.3	67.3	68.6	69.0	69.1	69.3	69.9	69.9	70.0
GE 4500	52.8	53.8	61.7	63.7	66.7	67.2	68.4	68.9	69.9	71.2	71.6	71.7	71.9	72.5	72.5	72.6
GE 4000	55.8	56.8	64.9	66.9	69.9	70.4	71.6	72.1	73.1	74.4	74.8	74.9	75.1	75.7	75.7	75.8
GE 3500	57.8	58.9	67.5	69.5	72.5	73.0	74.2	74.7	75.7	77.0	77.4	77.5	77.7	78.3	78.3	78.4
GE 3000	60.4	61.5	70.2	72.5	75.8	76.3	77.5	78.0	79.0	80.4	80.7	80.9	81.0	81.6	81.6	81.7
GE 2500	61.9	63.1	72.0	74.2	77.5	78.0	79.4	79.9	80.9	82.2	82.6	82.7	82.8	83.5	83.5	83.6
GE 2000	64.4	65.9	75.2	77.4	80.9	81.4	83.0	83.5	84.4	85.8	86.2	86.3	86.4	87.0	87.0	87.2
GE 1800	64.9	66.4	75.8	78.0	81.6	82.1	83.7	84.2	85.2	86.5	86.9	87.0	87.2	87.8	87.8	87.9
GE 1500	66.2	67.8	77.2	79.4	83.1	83.6	85.4	85.9	86.9	88.4	88.8	88.9	89.0	89.6	89.6	89.8
GE 1200	68.3	69.9	79.5	81.7	85.7	86.2	88.0	88.5	89.5	91.0	91.4	91.5	91.6	92.2	92.2	92.3
GE 1000	69.4	71.0	80.7	83.0	86.9	87.4	89.3	89.8	90.7	92.2	92.6	92.7	92.8	93.5	93.5	93.6
GE 900	70.4	72.0	81.9	84.1	88.0	88.5	90.4	90.9	92.0	93.5	93.8	94.0	94.1	94.7	94.7	94.8
GE 800	71.1	72.8	82.7	84.9	88.9	89.4	91.2	91.7	92.8	94.3	94.7	94.8	94.9	95.6	95.6	95.7
GE 700	71.5	73.3	83.3	85.7	89.6	90.1	92.1	92.6	93.7	95.2	95.6	95.7	95.8	96.4	96.4	96.5
GE 600	71.7	73.6	83.6	85.9	90.0	90.5	92.5	93.1	94.2	95.7	96.0	96.2	96.3	96.9	97.0	97.2
GE 500	72.1	74.0	84.1	86.4	90.6	91.1	93.1	93.7	94.8	96.3	96.7	96.8	96.9	97.5	97.7	97.8
GE 400	72.1	74.0	84.1	86.4	90.6	91.1	93.1	93.7	94.8	96.3	96.7	96.8	96.9	97.5	97.7	97.8
GE 300	72.1	74.0	84.1	86.4	90.6	91.1	93.1	93.7	94.8	96.3	96.7	96.8	96.9	97.5	97.7	97.8
GE 200	72.1	74.0	84.1	86.4	90.6	91.1	93.2	93.8	95.1	96.5	96.9	97.0	97.5	98.1	98.3	98.4
GE 100	72.1	74.0	84.1	86.4	90.6	91.1	93.2	93.8	95.2	96.8	97.2	97.3	97.9	98.5	98.6	99.5
GE 000	72.1	74.0	84.1	86.4	90.6	91.1	93.2	93.8	95.2	96.8	97.2	97.3	98.1	98.8	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

D - 2 - 73

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	29.3	29.8	35.3	37.1	39.6	40.5	41.8	43.1	44.3	45.3	45.6	46.0	46.4	46.9	47.4	48.2
GE 20000	32.1	32.8	38.9	40.7	43.4	44.4	45.8	47.0	48.2	49.2	49.6	49.9	50.6	51.2	51.7	52.6
GE 18000	32.1	32.8	38.9	40.7	43.4	44.4	45.8	47.0	48.2	49.2	49.6	49.9	50.6	51.2	51.7	52.6
GE 16000	32.1	32.8	38.9	40.7	43.4	44.4	45.8	47.0	48.2	49.2	49.6	49.9	50.6	51.2	51.7	52.6
GE 14000	32.5	33.1	39.3	41.1	43.8	44.8	46.1	47.4	48.6	49.6	49.9	50.3	50.9	51.5	52.0	53.0
GE 12000	33.0	33.7	40.2	42.1	44.8	45.8	47.1	48.3	49.6	50.6	50.9	51.3	51.9	52.5	53.0	54.0
GE 10000	34.1	34.8	41.3	43.2	45.9	46.9	48.3	49.8	51.0	52.3	52.6	53.0	53.7	54.4	54.8	55.8
GE 9000	35.7	36.4	43.1	44.9	47.7	48.7	50.2	51.7	52.9	54.1	54.5	54.8	55.6	56.2	56.7	57.8
GE 8000	37.7	38.4	45.4	47.4	50.2	51.2	52.6	54.1	55.3	56.6	56.9	57.3	58.0	58.7	59.1	60.2
GE 7000	37.9	38.7	45.6	47.6	50.4	51.4	52.9	54.4	55.6	56.8	57.3	57.7	58.4	59.0	59.5	60.6
GE 6000	37.9	38.7	45.6	47.6	50.4	51.4	52.9	54.4	55.6	56.8	57.3	57.7	58.4	59.0	59.5	60.6
GE 5000	38.7	39.6	46.6	48.6	51.4	52.4	53.9	55.3	56.6	58.0	58.5	58.9	59.6	60.2	60.7	61.8
GE 4500	40.5	41.5	49.2	51.2	54.1	55.2	56.9	58.4	59.6	61.1	61.6	62.0	62.7	63.3	63.8	64.9
GE 4000	43.1	44.2	52.6	54.6	57.7	58.8	60.5	62.0	63.2	64.8	65.3	65.6	66.4	67.0	67.5	68.6
GE 3500	44.9	46.0	54.8	56.8	59.9	61.0	62.7	64.2	65.4	67.0	67.5	67.9	68.6	69.2	69.7	70.8
GE 3000	48.1	49.3	58.9	60.9	63.9	65.2	66.9	68.5	69.7	71.3	71.8	72.1	72.9	73.5	74.0	75.1
GE 2500	49.4	50.7	60.2	62.3	65.4	66.9	68.6	70.2	71.4	73.0	73.5	73.9	74.6	75.2	75.7	76.8
GE 2000	51.3	52.5	62.1	64.2	67.4	68.8	70.8	72.4	73.7	75.3	75.8	76.3	77.1	77.7	78.2	79.3
GE 1800	52.6	53.9	63.4	65.5	68.8	70.3	72.3	73.9	75.2	76.8	77.3	77.8	*78.5	79.1	79.6	80.7
GE 1500	54.1	55.6	65.4	67.5	70.9	72.4	74.4	76.0	77.3	78.9	79.4	79.9	80.6	81.2	81.7	82.8
GE 1200	56.3	57.9	67.9	69.9	73.4	74.8	76.9	78.5	79.9	81.5	82.0	82.5	83.2	83.8	84.3	85.4
GE 1000	57.8	59.6	69.9	72.3	76.0	77.4	79.6	81.2	82.7	84.3	84.8	85.3	86.0	86.6	87.1	88.2
GE 900	58.9	60.7	71.4	73.7	77.4	79.0	81.2	82.8	84.3	85.9	86.4	86.9	87.6	88.2	88.7	89.8
GE 800	59.1	61.1	72.1	74.5	78.3	79.9	82.1	83.7	85.2	86.7	87.2	87.7	88.5	89.1	89.6	90.7
GE 700	59.3	61.3	72.5	74.8	78.7	80.2	82.5	84.0	85.5	87.1	87.6	88.1	88.8	89.4	89.9	91.0
GE 600	60.0	62.2	73.5	76.2	80.4	82.0	84.2	85.8	87.2	88.8	89.3	89.9	90.7	91.3	91.8	92.9
GE 500	60.7	62.9	74.6	77.3	81.5	83.1	85.4	87.2	88.7	90.3	90.8	91.4	92.1	92.9	93.5	94.6
GE 400	60.7	62.9	74.6	77.3	81.5	83.1	85.4	87.2	88.7	90.3	90.8	91.4	92.1	92.9	93.5	94.6
GE 300	60.7	62.9	74.7	77.4	81.6	83.2	85.5	87.4	88.8	90.4	90.9	91.5	92.3	93.1	93.7	94.8
GE 200	60.7	62.9	74.7	77.4	81.6	83.2	85.5	87.4	88.8	90.6	91.0	91.7	92.6	93.7	94.7	96.2
GE 100	60.7	62.9	74.7	77.4	81.6	83.3	85.6	87.5	89.0	90.7	91.2	92.0	93.0	94.2	96.1	98.9
GE 000	60.7	62.9	74.7	77.4	81.6	83.3	85.6	87.5	89.0	90.7	91.2	92.0	93.1	94.6	96.8	100.0

TOTAL NUMBER OF OBSERVATIONS 815

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	15.8	16.0	25.8	27.0	31.7	32.8	33.8	35.5	36.9	37.8	38.5	39.2	39.9	40.2	40.8	42.6
GE 20000	17.9	18.2	28.6	29.8	34.9	36.1	37.1	38.8	40.5	41.3	42.3	43.0	43.6	44.1	44.8	46.9
GE 18000	17.9	18.2	28.6	29.8	34.9	36.1	37.1	38.8	40.5	41.3	42.3	43.0	43.6	44.1	44.8	46.9
GE 16000	17.9	18.2	28.6	29.8	34.9	36.1	37.1	38.8	40.5	41.3	42.3	43.0	43.6	44.1	44.8	46.9
GE 14000	18.0	18.3	28.8	30.0	35.1	36.3	37.3	39.0	40.7	41.6	42.5	43.3	43.9	44.3	45.1	47.1
GE 12000	18.2	18.6	29.2	30.4	35.5	36.8	37.9	39.7	41.4	42.3	43.3	44.0	44.6	45.1	45.8	47.9
GE 10000	19.3	19.7	30.6	31.8	37.3	38.6	39.7	41.6	43.3	44.2	45.3	46.1	46.7	47.1	47.9	50.2
GE 9000	20.0	20.4	31.5	32.7	38.2	39.5	40.6	42.5	44.5	45.4	46.7	47.4	48.0	48.5	49.2	51.6
GE 8000	21.3	21.6	32.8	34.4	40.3	42.0	43.3	45.2	47.1	48.2	49.5	50.3	50.9	51.4	52.1	54.6
GE 7000	21.5	21.9	33.0	34.6	40.6	42.3	43.6	45.6	47.5	48.6	49.8	50.7	51.3	51.8	52.5	54.9
GE 6000	21.6	22.0	33.2	34.8	40.7	42.4	43.7	45.7	47.6	48.7	49.9	50.8	51.4	51.9	52.7	55.2
GE 5000	22.1	22.5	33.7	35.5	41.4	43.3	44.6	46.5	48.6	49.7	50.9	51.8	52.4	52.9	53.7	56.1
GE 4500	23.5	23.8	35.2	37.1	43.1	45.0	46.3	49.0	51.0	52.1	53.3	54.2	54.8	55.3	56.1	58.5
GE 4000	24.7	25.4	37.3	39.1	45.8	47.6	49.0	51.6	53.7	54.8	56.0	56.9	57.5	58.0	58.8	61.4
GE 3500	26.4	27.2	39.4	41.2	47.9	49.7	51.0	53.7	55.8	56.9	58.1	58.9	59.5	60.0	60.9	63.4
GE 3000	29.4	30.4	43.0	44.8	51.9	53.7	55.0	57.7	59.9	61.2	62.5	63.3	63.9	64.4	65.4	67.9
GE 2500	30.3	31.3	44.3	46.2	53.2	55.0	56.6	59.3	61.5	62.8	64.0	64.9	65.5	66.0	67.0	69.5
GE 2000	32.3	33.4	47.1	49.1	56.3	58.2	59.8	62.6	65.2	66.7	68.0	68.9	69.5	70.1	71.1	73.6
GE 1800	34.0	35.4	49.5	51.4	58.6	60.5	62.1	65.0	67.7	69.1	70.5	71.3	71.9	72.5	73.5	76.1
GE 1500	36.0	37.7	52.0	53.9	61.2	63.2	64.9	67.8	70.5	72.1	73.4	74.2	74.8	75.5	76.5	79.1
GE 1200	37.3	39.0	53.6	55.7	62.9	65.1	66.8	69.9	72.5	74.1	75.5	76.3	76.9	77.5	78.6	81.2
GE 1000	39.1	40.8	55.5	57.6	65.0	67.2	68.9	71.9	74.6	76.2	77.6	78.5	79.1	79.7	80.9	83.5
GE 900	41.1	42.8	57.6	59.8	67.2	69.4	71.1	74.1	76.8	78.5	80.2	81.0	81.7	82.3	83.5	86.0
GE 800	41.4	43.1	58.2	60.4	67.8	70.0	71.8	74.8	77.5	79.5	81.2	82.0	82.6	83.2	84.4	87.0
GE 700	42.2	43.9	59.2	61.4	68.8	71.1	72.9	75.9	78.7	80.7	82.4	83.2	83.8	84.4	85.7	88.2
GE 600	42.6	44.3	59.8	62.3	70.4	72.8	74.6	77.6	80.4	82.4	84.1	84.9	85.5	86.1	87.4	89.9
GE 500	43.4	45.1	60.8	63.4	71.7	74.2	76.1	79.3	82.3	84.2	86.1	87.0	87.6	88.2	89.4	92.0
GE 400	43.5	45.2	60.9	63.5	71.8	74.4	76.2	79.6	82.5	84.6	86.5	87.5	88.1	88.7	89.9	92.5
GE 300	43.6	45.3	61.0	63.7	72.1	74.6	76.4	80.1	83.0	85.2	87.1	88.3	89.1	89.8	91.0	93.7
GE 200	43.6	45.3	61.1	63.8	72.2	74.7	76.8	80.6	83.5	85.7	87.6	89.1	90.0	91.1	92.6	95.7
GE 100	43.6	45.3	61.1	63.8	72.2	74.7	76.8	80.6	83.5	85.7	87.6	89.1	90.2	91.4	93.1	99.1
GE 000	43.6	45.3	61.1	63.8	72.2	74.7	76.8	80.6	83.5	85.7	87.6	89.1	90.2	91.5	93.6	100.0

TOTAL NUMBER OF OBSERVATIONS 823

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	21.6	22.1	28.6	30.4	33.6	35.0	35.4	36.1	36.8	37.5	37.5	37.7	37.8	38.3	38.8	39.2
GE 20000	24.7	25.2	32.2	34.2	38.1	39.5	40.0	40.8	41.6	42.3	42.3	42.5	42.7	43.2	43.6	44.1
GE 18000	24.7	25.2	32.2	34.2	38.1	39.5	40.0	40.8	41.6	42.3	42.4	42.7	42.8	43.3	43.8	44.2
GE 16000	24.7	25.2	32.2	34.2	38.1	39.5	40.0	40.8	41.6	42.3	42.4	42.7	42.8	43.3	43.8	44.2
GE 14000	24.7	25.2	32.2	34.2	38.1	39.5	40.0	40.8	41.6	42.3	42.4	42.7	42.8	43.3	43.8	44.2
GE 12000	25.2	25.7	32.7	34.7	38.5	40.0	40.5	41.3	42.1	42.8	42.9	43.2	43.4	43.9	44.4	44.8
GE 10000	26.3	26.8	34.4	36.4	40.4	41.8	42.5	43.8	44.7	45.5	45.8	46.1	46.3	46.8	47.3	47.8
GE 9000	26.8	27.3	34.9	37.0	41.0	42.4	43.2	44.4	45.3	46.1	46.4	46.7	46.9	47.4	47.9	48.4
GE 8000	27.5	28.0	36.0	38.1	43.2	44.6	45.5	46.7	47.6	48.4	48.7	49.0	49.3	49.8	50.3	50.8
GE 7000	28.0	28.5	36.5	38.5	43.6	45.1	45.9	47.2	48.1	48.8	49.2	49.5	49.8	50.3	50.8	51.3
GE 6000	28.1	28.6	36.6	38.7	43.9	45.3	46.2	47.4	48.4	49.1	49.5	49.7	50.1	50.5	51.0	51.5
GE 5000	29.3	29.8	37.8	40.0	45.3	46.8	47.6	49.1	50.1	50.8	51.2	51.4	51.8	52.2	52.7	53.2
GE 4500	29.9	30.4	38.5	40.7	46.2	47.6	48.5	49.9	50.9	51.6	52.0	52.2	52.6	53.1	53.6	54.1
GE 4000	32.7	33.3	41.7	44.0	49.8	51.3	52.1	53.6	54.5	55.3	55.6	55.9	56.2	56.7	57.2	57.7
GE 3500	34.5	35.2	43.9	46.2	52.0	53.6	54.4	56.0	57.0	57.7	58.1	58.3	58.7	59.2	59.6	60.1
GE 3000	38.2	39.4	48.5	50.9	57.1	58.7	59.5	61.2	62.2	62.9	63.3	63.5	63.9	64.4	64.8	65.3
GE 2500	39.8	41.3	50.4	53.2	59.6	61.2	62.1	63.9	64.8	65.6	65.9	66.2	66.5	67.0	67.5	68.0
GE 2000	43.8	45.5	54.9	57.7	64.1	65.7	66.8	68.7	69.8	70.5	70.9	71.2	71.5	72.0	72.5	73.0
GE 1800	45.0	46.8	56.4	59.2	65.6	67.2	68.2	70.2	71.3	72.0	72.4	72.6	73.0	73.5	73.9	74.4
GE 1500	48.8	51.0	61.0	63.8	70.4	72.0	73.1	75.2	76.2	77.0	77.3	77.6	77.9	78.4	78.9	79.4
GE 1200	52.2	54.5	65.0	67.8	74.8	76.4	77.5	79.5	80.6	81.3	81.7	81.9	82.3	82.8	83.3	83.8
GE 1000	54.4	56.7	67.9	70.8	77.9	79.8	81.0	83.0	84.2	85.0	85.3	85.6	85.9	86.4	86.9	87.4
GE 900	55.3	57.6	69.0	71.9	79.3	81.1	82.3	84.4	85.6	86.3	86.7	86.9	87.3	87.8	88.2	88.7
GE 800	56.1	58.4	69.8	72.7	80.4	82.3	83.5	85.6	86.8	87.5	87.9	88.1	88.5	89.0	89.5	89.9
GE 700	56.2	58.5	70.3	73.2	81.0	83.0	84.2	86.4	87.9	88.6	89.0	89.2	89.6	90.1	90.5	91.0
GE 600	56.4	58.7	70.7	73.6	81.7	83.9	85.1	87.5	89.0	89.7	90.1	90.3	90.7	91.3	91.8	92.2
GE 500	57.0	59.3	72.1	75.4	84.2	86.5	87.9	90.8	92.6	93.3	93.9	94.2	94.5	95.2	95.6	96.1
GE 400	57.0	59.5	72.4	75.6	84.7	87.0	88.4	91.3	93.2	94.1	94.7	94.9	95.3	95.9	96.4	96.8
GE 300	57.0	59.5	72.4	75.6	84.7	87.2	88.8	91.9	93.9	94.9	95.5	95.8	96.2	96.8	97.5	97.9
GE 200	57.0	59.5	72.4	75.6	84.7	87.2	88.8	91.9	93.9	95.2	95.9	96.1	96.8	97.5	98.2	98.8
GE 100	57.0	59.5	72.4	75.6	84.7	87.2	88.8	91.9	93.9	95.2	95.9	96.2	97.0	97.6	98.4	99.3
GE 000	57.0	59.5	72.4	75.6	84.7	87.2	88.8	91.9	93.9	95.2	96.0	96.4	97.1	97.9	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS 825

D - 2 - 76

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	30.7	31.6	38.3	39.9	40.6	40.6	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8
GE 20000	35.2	36.2	42.9	44.5	45.3	45.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 18000	35.2	36.2	42.9	44.5	45.3	45.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 16000	35.2	36.2	42.9	44.5	45.3	45.3	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 14000	35.3	36.4	43.0	44.6	45.6	45.6	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
GE 12000	35.5	36.6	43.4	45.0	45.9	45.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2
GE 10000	37.7	38.9	46.4	48.1	49.3	49.5	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
GE 9000	38.4	39.8	47.4	49.1	50.4	50.5	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
GE 8000	40.1	41.5	49.3	51.0	52.5	52.7	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
GE 7000	40.8	42.2	50.2	51.9	53.3	53.6	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
GE 6000	40.8	42.2	50.2	51.9	53.3	53.6	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
GE 5000	42.4	43.9	52.2	53.9	55.5	55.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
GE 4500	42.7	44.1	52.5	54.3	56.0	56.2	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 4000	46.3	48.0	56.4	58.2	59.9	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
GE 3500	51.5	53.6	61.9	63.9	65.9	66.2	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 3000	58.1	60.8	69.9	72.2	74.7	74.9	75.3	75.5	75.5	75.5	75.6	75.6	75.6	75.6	75.6	75.6
GE 2500	61.0	63.9	73.5	75.9	78.4	78.7	79.0	79.3	79.3	79.3	79.4	79.4	79.4	79.4	79.4	79.4
GE 2000	65.0	68.1	77.8	80.2	82.9	83.2	83.5	83.8	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9
GE 1800	66.8	70.1	80.0	82.4	85.2	85.5	85.8	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2
GE 1500	68.8	72.1	82.3	84.7	87.9	88.1	88.5	88.7	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8
GE 1200	70.5	73.8	84.7	87.2	90.5	90.9	91.3	91.5	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6
GE 1000	72.0	75.3	86.7	89.1	92.6	93.0	93.3	93.6	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7
GE 900	72.8	76.1	87.8	90.4	93.9	94.3	94.7	95.0	95.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2
GE 800	73.2	76.5	88.2	90.9	94.5	95.0	95.4	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9
GE 700	73.6	76.8	89.3	92.1	95.9	96.4	96.7	97.1	97.1	97.1	97.2	97.2	97.2	97.2	97.2	97.2
GE 600	73.9	77.3	90.3	93.2	97.1	97.8	98.2	98.7	98.7	98.8	98.9	98.9	98.9	98.9	98.9	98.9
GE 500	74.2	77.6	90.7	93.6	97.7	98.4	98.8	99.3	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6
GE 400	74.2	77.6	90.7	93.6	97.7	98.4	98.8	99.3	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	74.2	77.6	90.9	93.8	98.1	98.8	99.2	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	74.2	77.6	90.9	93.8	98.1	98.8	99.2	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	74.2	77.6	90.9	93.8	98.1	98.8	99.2	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	74.2	77.6	90.9	93.8	98.1	98.8	99.2	99.6	99.8	99.9	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 825

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	39.2	40.4	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 20000	45.9	47.4	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 18000	45.9	47.4	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
GE 16000	46.0	47.5	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
GE 14000	46.0	47.5	51.9	52.0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
GE 12000	47.1	48.6	53.2	53.3	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
GE 10000	49.5	51.0	55.9	56.0	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
GE 9000	50.8	52.4	57.2	57.4	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
GE 8000	54.1	55.7	61.4	61.8	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
GE 7000	54.7	56.3	62.1	62.5	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
GE 6000	54.9	56.6	62.5	62.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 5000	56.9	58.8	64.9	65.3	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 4500	57.9	59.9	66.5	66.9	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
GE 4000	61.1	63.6	70.9	71.3	71.7	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
GE 3500	66.0	68.9	76.2	76.7	77.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 3000	72.5	75.4	83.3	83.8	84.5	84.7	84.7	84.7	84.7	84.7	84.9	84.9	84.9	84.9	84.9	84.9
GE 2500	74.7	78.0	86.0	86.5	87.3	87.5	87.5	87.5	87.5	87.5	87.7	87.7	87.7	87.7	87.7	87.7
GE 2000	75.9	79.3	87.3	87.8	88.9	89.0	89.0	89.2	89.2	89.2	89.4	89.4	89.4	89.4	89.4	89.4
GE 1800	76.9	80.3	88.3	88.8	90.0	90.1	90.1	90.3	90.3	90.3	90.5	90.5	90.5	90.5	90.5	90.5
GE 1500	78.3	81.7	90.0	90.5	91.7	91.8	91.8	92.0	92.0	92.0	92.3	92.3	92.3	92.3	92.3	92.3
GE 1200	80.0	83.7	92.2	92.7	94.0	94.2	94.2	94.3	94.3	94.3	94.6	94.6	94.6	94.6	94.6	94.6
GE 1000	80.3	83.9	92.8	93.4	94.9	95.0	95.0	95.1	95.1	95.1	95.5	95.5	95.5	95.5	95.5	95.5
GE 900	80.6	84.3	93.4	94.2	95.7	96.0	96.0	96.1	96.1	96.1	96.5	96.5	96.5	96.5	96.5	96.5
GE 800	80.6	84.3	93.5	94.3	95.9	96.1	96.2	96.3	96.3	96.3	96.7	96.7	96.7	96.7	96.7	96.7
GE 700	80.9	84.7	93.9	94.6	96.5	96.7	96.8	97.0	97.1	97.1	97.4	97.4	97.4	97.4	97.4	97.4
GE 600	81.1	84.9	94.3	95.1	97.1	97.3	97.4	97.6	97.7	97.7	98.2	98.2	98.2	98.2	98.2	98.2
GE 500	81.2	85.0	94.5	95.5	97.8	98.1	98.3	98.7	98.8	98.9	99.4	99.4	99.4	99.4	99.4	99.4
GE 400	81.2	85.0	94.5	95.5	97.9	98.2	98.4	98.9	99.0	99.1	99.6	99.6	99.6	99.6	99.6	99.6
GE 300	81.2	85.0	94.5	95.6	98.2	98.4	98.8	99.3	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	81.2	85.0	94.5	95.6	98.2	98.4	98.8	99.3	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	81.2	85.0	94.5	95.6	98.2	98.4	98.8	99.3	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0
GE 000	81.2	85.0	94.5	95.6	98.2	98.4	98.8	99.3	99.4	99.5	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 821

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	42.6	44.6	48.1	48.1	48.5	48.6	48.6	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 20000	48.0	50.2	54.8	54.8	55.2	55.3	55.3	55.4	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
GE 18000	48.1	50.4	54.9	54.9	55.3	55.4	55.4	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
GE 16000	48.1	50.4	54.9	54.9	55.3	55.4	55.4	55.6	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
GE 14000	48.3	50.5	55.1	55.1	55.4	55.6	55.6	55.7	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8
GE 12000	49.1	51.4	55.9	55.9	56.3	56.4	56.4	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
GE 10000	52.1	54.3	58.9	58.9	59.3	59.4	59.4	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
GE 9000	53.1	55.3	59.9	59.9	60.2	60.4	60.4	60.5	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 8000	57.4	59.6	65.3	65.7	66.3	66.4	66.4	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
GE 7000	58.1	60.5	66.4	66.8	67.4	67.5	67.5	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 6000	58.1	60.6	66.7	67.0	67.7	67.8	67.8	67.9	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
GE 5000	60.1	62.8	68.9	69.3	69.9	70.0	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 4500	62.3	65.2	71.5	71.9	72.5	72.6	72.6	72.7	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
GE 4000	65.6	68.8	75.3	75.9	76.7	76.8	76.8	76.9	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
GE 3500	69.1	72.7	79.8	80.4	81.2	81.4	81.4	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
GE 3000	72.8	76.4	83.6	84.2	85.2	85.3	85.6	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 2500	74.9	78.5	86.0	86.7	87.7	87.8	88.0	88.1	88.5	88.6	88.8	88.8	88.8	88.8	88.8	88.8
GE 2000	77.0	80.6	88.1	88.9	89.9	90.0	90.2	90.5	90.9	91.0	91.1	91.1	91.1	91.1	91.1	91.1
GE 1800	77.4	81.0	88.5	89.3	90.2	90.4	90.6	90.9	91.2	91.4	91.5	91.5	91.5	91.5	91.5	91.5
GE 1500	78.8	82.3	90.1	90.9	91.9	92.0	92.3	92.6	93.0	93.1	93.2	93.2	93.2	93.2	93.2	93.2
GE 1200	79.6	83.5	91.6	92.3	93.3	93.5	93.8	94.1	94.4	94.6	94.7	94.7	94.7	94.7	94.7	94.7
GE 1000	80.0	83.8	92.5	93.2	94.2	94.3	94.7	94.9	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8
GE 900	80.0	83.8	92.5	93.2	94.2	94.3	94.7	94.9	95.6	95.7	95.8	95.8	95.8	95.8	95.8	95.8
GE 800	80.4	84.2	93.0	93.7	95.1	95.2	95.6	95.8	96.4	96.5	96.7	96.7	96.7	96.7	96.7	96.7
GE 700	80.6	84.4	93.3	94.2	95.6	95.7	96.0	96.3	96.9	97.0	97.2	97.2	97.2	97.2	97.2	97.2
GE 600	81.2	85.1	94.3	95.3	96.7	96.8	97.2	97.4	98.0	98.1	98.3	98.3	98.3	98.3	98.3	98.3
GE 500	81.5	85.4	94.8	95.9	97.3	97.4	97.8	98.0	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9
GE 400	81.5	85.4	94.8	95.9	97.3	97.4	97.8	98.0	98.6	98.8	98.9	98.9	98.9	98.9	98.9	98.9
GE 300	81.7	85.7	95.1	96.2	97.5	97.7	98.3	98.5	99.1	99.3	99.4	99.4	99.5	99.5	99.5	99.5
GE 200	81.7	85.7	95.1	96.2	97.5	97.8	98.4	98.6	99.3	99.4	99.9	99.9	100.0	100.0	100.0	100.0
GE 100	81.7	85.7	95.1	96.2	97.5	97.8	98.4	98.6	99.3	99.4	99.9	99.9	100.0	100.0	100.0	100.0
GE 000	81.7	85.7	95.1	96.2	97.5	97.8	98.4	98.6	99.3	99.4	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

D - 2 - 79

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	45.8	46.0	50.0	50.9	52.1	52.2	52.3	53.0	53.0	53.3	53.3	53.3	53.3	53.3	53.3	53.3
GE 20000	52.1	52.5	56.7	57.7	58.9	59.0	59.1	59.8	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.1
GE 18000	52.3	52.7	56.9	57.9	59.1	59.3	59.4	60.0	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 16000	52.3	52.7	56.9	57.9	59.1	59.3	59.4	60.0	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 14000	52.3	52.7	56.9	57.9	59.1	59.3	59.4	60.0	60.0	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 12000	53.0	53.3	57.5	58.5	59.8	59.9	60.0	60.6	60.6	61.0	61.0	61.0	61.0	61.0	61.0	61.0
GE 10000	55.7	56.0	60.5	61.5	63.0	63.2	63.3	64.0	64.0	64.3	64.3	64.3	64.3	64.3	64.3	64.3
GE 9000	55.9	56.3	60.7	61.7	63.2	63.5	63.6	64.2	64.2	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 8000	59.1	59.6	64.6	65.7	67.3	67.5	67.7	68.3	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6
GE 7000	60.2	60.7	65.9	67.0	68.6	68.9	69.0	69.6	69.6	70.0	70.0	70.0	70.0	70.0	70.0	70.0
GE 6000	60.5	61.0	66.2	67.3	68.9	69.1	69.3	69.9	69.9	70.2	70.2	70.2	70.2	70.2	70.2	70.2
GE 5000	61.9	62.3	67.5	68.6	70.2	70.5	70.6	71.2	71.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6
GE 4500	63.7	64.3	69.6	70.7	72.3	72.6	72.7	73.3	73.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 4000	66.7	67.7	73.1	74.2	75.8	76.0	76.2	76.8	76.8	77.2	77.2	77.2	77.2	77.2	77.2	77.2
GE 3500	69.9	70.9	76.3	77.5	79.1	79.4	79.5	80.1	80.1	80.5	80.5	80.5	80.5	80.5	80.5	80.5
GE 3000	72.7	73.7	79.5	80.7	82.6	82.8	83.0	83.6	83.6	84.0	84.0	84.0	84.0	84.0	84.0	84.0
GE 2500	73.6	74.7	80.7	82.1	84.0	84.3	84.4	85.2	85.2	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 2000	77.2	78.3	84.6	85.9	88.0	88.4	88.5	89.5	89.5	89.9	89.9	89.9	89.9	89.9	89.9	89.9
GE 1800	78.3	79.4	85.7	87.0	89.1	89.5	89.6	90.6	90.6	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 1500	79.9	81.0	87.3	88.6	90.9	91.2	91.5	92.5	92.5	92.8	92.8	92.8	92.8	92.8	92.8	92.8
GE 1200	80.9	82.0	88.4	89.8	92.2	92.6	92.8	93.8	93.8	94.2	94.2	94.2	94.2	94.2	94.2	94.2
GE 1000	81.6	82.8	89.5	90.9	93.3	93.7	94.1	95.1	95.1	95.4	95.4	95.4	95.4	95.4	95.4	95.4
GE 900	82.0	83.2	90.2	91.6	94.1	94.4	94.8	95.8	95.8	96.2	96.2	96.2	96.2	96.2	96.2	96.2
GE 800	82.2	83.5	90.5	91.9	94.3	94.7	95.1	96.0	96.0	96.4	96.4	96.4	96.4	96.4	96.4	96.4
GE 700	82.3	83.6	90.7	92.1	94.6	94.9	95.3	96.3	96.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7
GE 600	82.6	83.8	91.0	92.5	94.9	95.3	95.7	96.7	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 500	82.6	83.8	91.0	92.5	95.4	95.8	96.2	97.2	97.3	97.7	97.8	97.8	97.8	97.8	97.8	97.8
GE 400	83.1	84.3	91.5	93.0	95.9	96.3	96.7	97.7	97.8	98.3	98.4	98.4	98.4	98.4	98.4	98.4
GE 300	83.1	84.3	91.5	93.0	95.9	96.3	96.7	97.7	97.8	98.4	98.5	98.5	98.5	98.5	98.5	98.5
GE 200	83.1	84.3	91.5	93.0	95.9	96.4	96.8	97.8	98.0	98.6	98.8	98.9	99.0	99.0	99.1	99.1
GE 100	83.1	84.3	91.5	93.0	95.9	96.4	96.8	97.8	98.0	98.6	98.9	99.0	99.3	99.8	100.0	100.0
GE 000	83.1	84.3	91.5	93.0	95.9	96.4	96.8	97.8	98.0	98.6	98.9	99.0	99.3	99.8	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 810

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	32.7	33.4	39.2	40.2	42.1	42.6	43.1	43.7	44.2	44.7	44.9	45.1	45.2	45.5	45.7	46.1
GE 20000	37.0	37.9	44.2	45.3	47.4	47.9	48.4	49.0	49.6	50.2	50.4	50.6	50.8	51.0	51.2	51.7
GE 18000	37.1	38.0	44.2	45.3	47.4	48.0	48.5	49.1	49.7	50.2	50.5	50.6	50.8	51.1	51.3	51.8
GE 16000	37.1	38.0	44.2	45.4	47.4	48.0	48.5	49.1	49.7	50.2	50.5	50.6	50.8	51.1	51.3	51.8
GE 14000	37.2	38.1	44.4	45.6	47.7	48.2	48.7	49.3	49.9	50.5	50.7	50.9	51.1	51.3	51.6	52.0
GE 12000	37.8	38.7	45.1	46.2	48.3	48.9	49.4	50.1	50.6	51.2	51.4	51.6	51.8	52.1	52.3	52.7
GE 10000	39.8	40.8	47.5	48.7	50.9	51.5	52.1	52.9	53.5	54.1	54.3	54.5	54.7	55.0	55.2	55.7
GE 9000	40.7	41.7	48.5	49.7	52.0	52.6	53.2	53.9	54.6	55.2	55.5	55.6	55.8	56.1	56.3	56.9
GE 8000	43.1	44.1	51.4	52.8	55.4	56.1	56.7	57.5	58.1	58.7	59.0	59.2	59.4	59.7	59.9	60.4
GE 7000	43.7	44.7	52.1	53.5	56.1	56.8	57.4	58.1	58.8	59.4	59.7	59.9	60.1	60.4	60.6	61.1
GE 6000	43.8	44.8	52.2	53.6	56.2	56.9	57.6	58.3	59.0	59.6	59.9	60.1	60.3	60.6	60.8	61.3
GE 5000	45.1	46.3	53.8	55.2	57.9	58.6	59.2	60.0	60.7	61.3	61.6	61.8	62.0	62.3	62.5	63.1
GE 4500	46.6	47.8	55.5	57.0	59.7	60.4	61.1	62.0	62.6	63.3	63.6	63.8	64.0	64.3	64.5	65.0
GE 4000	49.4	50.9	59.0	60.5	63.3	64.0	64.7	65.6	66.3	66.9	67.2	67.4	67.7	67.9	68.2	68.7
GE 3500	52.4	54.1	62.4	64.0	66.9	67.6	68.3	69.2	69.9	70.5	70.9	71.1	71.3	71.6	71.8	72.3
GE 3000	56.4	58.3	67.1	68.7	71.9	72.6	73.4	74.3	75.0	75.7	76.1	76.3	76.5	76.8	77.0	77.5
GE 2500	58.1	60.1	69.1	70.8	74.1	74.9	75.7	76.6	77.3	78.0	78.4	78.6	78.8	79.1	79.3	79.9
GE 2000	60.8	62.9	72.1	73.8	77.2	78.0	78.9	80.0	80.8	81.5	81.9	82.1	82.3	82.6	82.8	83.4
GE 1800	61.9	64.1	73.4	75.1	78.6	79.4	80.3	81.3	82.2	82.9	83.2	83.5	83.7	84.0	84.2	84.8
GE 1500	63.8	66.1	75.6	77.4	81.0	81.8	82.7	83.8	84.6	85.3	85.7	85.9	86.2	86.5	86.7	87.3
GE 1200	65.6	68.0	77.8	79.6	83.3	84.2	85.1	86.2	87.0	87.8	88.2	88.4	88.6	88.9	89.2	89.7
GE 1000	66.8	69.2	79.4	81.2	85.1	85.9	87.0	88.1	88.9	89.7	90.1	90.3	90.5	90.8	91.1	91.6
GE 900	67.6	70.0	80.4	82.3	86.2	87.1	88.1	89.2	90.1	90.9	91.3	91.5	91.8	92.0	92.3	92.9
GE 800	68.0	70.4	81.0	82.9	86.9	87.8	88.8	90.0	90.8	91.6	92.1	92.3	92.5	92.8	93.1	93.6
GE 700	68.3	70.8	81.5	83.5	87.5	88.5	89.6	90.7	91.6	92.4	92.9	93.1	93.3	93.6	93.9	94.4
GE 600	68.6	71.2	82.1	84.2	88.5	89.5	90.6	91.8	92.7	93.5	94.0	94.2	94.4	94.8	95.0	95.6
GE 500	69.0	71.6	82.8	85.0	89.5	90.6	91.7	93.0	94.1	94.9	95.4	95.6	95.9	96.2	96.5	97.0
GE 400	69.1	71.7	82.9	85.1	89.7	90.7	91.8	93.2	94.2	95.1	95.6	95.9	96.1	96.4	96.7	97.3
GE 300	69.2	71.7	83.0	85.2	89.8	90.9	92.1	93.5	94.6	95.5	96.0	96.3	96.6	96.9	97.2	97.8
GE 200	69.2	71.7	83.0	85.2	89.8	90.9	92.2	93.6	94.7	95.7	96.3	96.6	97.0	97.4	97.9	98.5
GE 100	69.2	71.7	83.0	85.2	89.8	90.9	92.2	93.6	94.7	95.7	96.3	96.7	97.2	97.7	98.3	99.6
GE 000	69.2	71.7	83.0	85.2	89.8	90.9	92.2	93.6	94.7	95.7	96.3	96.7	97.2	97.8	98.5	100.0

TOTAL NUMBER OF OBSERVATIONS 6539

D - 2 - 81

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	25.7	26.7	29.7	30.6	34.1	34.5	36.2	37.0	37.6	38.0	38.3	38.6	38.8	39.3	39.6	40.1
GE 20000	28.8	30.1	33.3	34.3	38.1	38.6	40.4	41.2	41.8	42.2	42.5	42.8	43.0	43.6	43.9	44.4
GE 18000	28.8	30.1	33.3	34.3	38.1	38.6	40.4	41.2	41.8	42.2	42.5	42.8	43.0	43.6	43.9	44.4
GE 16000	28.8	30.1	33.3	34.3	38.1	38.6	40.4	41.2	41.8	42.2	42.5	42.8	43.0	43.6	43.9	44.4
GE 14000	29.0	30.2	33.4	34.4	38.2	38.7	40.6	41.3	41.9	42.3	42.7	42.9	43.1	43.8	44.0	44.5
GE 12000	29.0	30.2	33.5	34.5	38.5	38.9	40.8	41.5	42.1	42.5	42.9	43.1	43.3	44.0	44.2	44.8
GE 10000	30.4	31.6	34.9	36.1	40.1	40.6	42.4	43.2	43.8	44.5	45.0	45.2	45.4	46.1	46.3	46.9
GE 9000	31.2	32.4	35.8	37.0	41.2	41.7	43.5	44.3	44.9	45.6	46.1	46.3	46.5	47.2	47.4	48.0
GE 8000	33.6	34.8	38.6	39.8	44.0	44.4	46.5	47.3	47.8	48.6	49.2	49.4	49.6	50.3	50.5	51.0
GE 7000	33.8	35.0	38.9	40.1	44.3	44.8	46.9	47.6	48.2	49.0	49.5	49.7	49.9	50.6	50.8	51.4
GE 6000	33.8	35.0	38.9	40.1	44.3	44.8	46.9	47.6	48.2	49.0	49.5	49.7	49.9	50.6	50.8	51.4
GE 5000	34.1	35.4	39.3	40.6	44.8	45.2	47.3	48.1	48.6	49.4	49.9	50.2	50.4	51.0	51.3	51.8
GE 4500	35.6	36.9	41.0	42.2	46.4	46.9	49.2	49.9	50.5	51.3	51.8	52.0	52.3	52.9	53.1	53.7
GE 4000	38.3	39.8	43.9	45.1	49.8	50.3	52.7	53.5	54.0	54.8	55.4	55.6	55.8	56.5	56.7	57.2
GE 3500	41.1	42.5	47.0	48.2	53.0	53.6	56.0	57.1	57.7	58.5	59.1	59.3	59.7	60.3	60.6	61.1
GE 3000	44.0	45.7	50.6	51.8	56.8	57.3	60.1	61.3	61.9	62.8	63.4	63.6	64.0	64.6	64.9	65.4
GE 2500	45.4	47.2	52.3	53.5	58.5	59.0	61.8	63.0	63.5	64.4	65.2	65.4	65.7	66.4	66.6	67.2
GE 2000	48.3	50.1	55.5	56.8	62.1	62.8	65.5	66.7	67.3	68.2	69.1	69.3	69.6	70.3	70.5	71.0
GE 1800	48.5	50.3	56.1	57.6	63.0	63.6	66.4	67.6	68.2	69.1	69.9	70.2	70.5	71.2	71.4	71.9
GE 1500	51.4	53.3	60.3	61.8	67.2	67.8	70.6	71.9	72.5	73.6	74.6	74.8	75.1	75.8	76.0	76.6
GE 1200	55.2	57.2	65.0	66.5	71.9	72.9	75.7	77.0	77.6	78.7	79.7	79.9	80.2	80.9	81.1	81.7
GE 1000	56.4	58.3	66.9	68.5	74.1	75.6	78.3	79.7	80.2	81.3	82.3	82.5	82.9	83.5	83.8	84.3
GE 900	56.6	58.6	67.2	68.8	74.5	76.2	79.0	80.3	80.9	82.1	83.2	83.4	83.8	84.4	84.6	85.2
GE 800	57.8	59.9	68.5	70.2	75.8	77.6	80.4	81.8	82.3	83.5	84.6	84.9	85.2	85.9	86.1	86.6
GE 700	58.1	60.2	69.1	70.7	77.2	79.4	82.5	83.9	84.4	85.6	86.7	87.0	87.3	88.0	88.2	88.7
GE 600	58.5	60.6	69.6	71.4	78.3	80.8	84.2	85.5	86.1	87.6	88.8	89.2	89.5	90.3	90.5	91.0
GE 500	59.0	61.1	70.2	72.2	79.1	81.5	85.0	86.3	87.1	88.6	89.8	90.2	90.5	91.3	91.5	92.2
GE 400	59.2	61.3	70.5	72.5	79.8	82.7	86.2	87.5	88.3	90.1	91.7	92.0	92.4	93.1	93.4	94.0
GE 300	59.3	61.4	70.6	72.6	79.9	82.8	86.9	88.2	89.2	91.2	93.0	93.6	94.1	95.0	95.6	96.2
GE 200	59.6	61.7	70.8	72.8	80.1	83.0	87.4	88.7	89.7	91.7	93.7	94.3	94.9	95.9	96.8	97.8
GE 100	59.6	61.7	70.8	72.8	80.1	83.0	87.4	88.7	89.7	91.8	93.8	94.5	95.1	96.4	98.0	99.9
GE 000	59.6	61.7	70.8	72.8	80.1	83.0	87.4	88.7	89.7	91.8	93.8	94.5	95.1	96.4	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 905

D - 2 - 82

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	18.4	19.2	21.5	22.0	23.7	24.3	26.4	27.9	28.6	29.3	29.8	30.0	30.3	30.8	31.3	32.1
GE 20000	20.7	21.5	24.3	24.7	27.0	27.6	29.8	31.3	32.0	32.7	33.4	33.6	34.0	34.4	34.9	35.7
GE 18000	20.7	21.5	24.3	24.7	27.0	27.6	29.8	31.3	32.0	32.7	33.4	33.6	34.0	34.4	34.9	35.7
GE 16000	20.7	21.5	24.3	24.7	27.0	27.6	29.8	31.3	32.0	32.7	33.4	33.6	34.0	34.4	34.9	35.7
GE 14000	20.7	21.5	24.3	24.7	27.0	27.6	29.8	31.3	32.0	32.7	33.4	33.6	34.0	34.4	34.9	35.7
GE 12000	20.7	21.5	24.3	24.7	27.0	27.6	29.8	31.3	32.0	32.7	33.4	33.6	34.0	34.4	34.9	35.7
GE 10000	22.2	23.1	25.9	26.5	28.9	29.5	31.6	33.2	34.0	34.7	35.4	35.6	35.9	36.4	36.9	37.7
GE 9000	23.4	24.3	27.1	27.8	30.3	30.9	33.1	34.6	35.4	36.3	36.9	37.1	37.5	37.9	38.5	39.2
GE 8000	24.9	25.9	29.0	29.7	32.5	33.1	35.6	37.4	38.2	39.2	40.1	40.3	40.7	41.1	41.6	42.4
GE 7000	25.1	26.0	29.1	29.8	32.7	33.3	35.8	37.6	38.5	39.5	40.3	40.5	40.9	41.3	41.9	42.6
GE 6000	25.1	26.0	29.1	29.8	32.7	33.3	35.8	37.6	38.5	39.5	40.3	40.5	40.9	41.3	41.9	42.6
GE 5000	25.3	26.3	29.3	30.0	33.0	33.5	36.0	37.8	38.7	39.7	40.5	40.8	41.1	41.5	42.1	42.9
GE 4500	26.3	27.3	30.3	31.1	34.2	34.7	37.3	39.0	39.9	41.0	41.9	42.1	42.4	42.9	43.4	44.2
GE 4000	27.8	29.0	32.5	33.8	37.5	38.0	40.5	42.3	43.2	44.4	45.4	45.6	45.9	46.4	46.9	47.7
GE 3500	29.9	31.3	35.4	36.8	40.7	41.3	44.1	45.8	46.8	48.0	49.1	49.3	49.7	50.1	50.7	51.4
GE 3000	32.3	33.7	38.5	39.9	43.7	44.4	47.1	48.9	49.9	51.3	52.5	52.7	53.1	53.5	54.1	54.8
GE 2500	33.7	35.3	40.2	41.8	45.7	46.4	49.1	50.9	51.9	53.3	54.5	54.7	55.1	55.5	56.0	56.8
GE 2000	36.5	38.1	43.5	45.1	49.1	49.8	52.5	54.4	55.4	56.8	58.0	58.2	58.6	59.0	59.6	60.3
GE 1800	38.2	39.9	45.7	47.4	51.5	52.2	55.2	57.0	58.0	59.5	60.7	60.9	61.2	61.6	62.2	63.0
GE 1500	41.8	43.4	50.1	51.8	56.3	56.9	60.0	62.0	63.0	64.6	65.8	66.0	66.4	66.8	67.4	68.1
GE 1200	44.4	46.0	53.2	55.1	59.7	60.5	63.8	65.8	66.8	68.5	69.7	69.9	70.2	70.7	71.2	72.0
GE 1000	46.3	47.9	55.9	58.0	63.0	64.2	68.2	70.2	71.3	73.1	74.3	74.5	74.8	75.3	75.8	76.6
GE 900	46.6	48.4	56.5	58.6	63.6	64.9	69.3	71.3	72.4	74.2	75.4	75.6	75.9	76.4	76.9	77.7
GE 800	46.8	48.6	57.1	59.3	64.4	65.7	70.1	72.1	73.2	74.9	76.2	76.5	76.8	77.3	77.8	78.6
GE 700	47.9	49.7	59.2	61.5	67.3	68.7	73.3	75.6	76.7	78.5	79.7	80.0	80.3	80.8	81.3	82.1
GE 600	48.7	50.5	60.4	63.1	69.2	70.7	75.3	77.8	79.0	80.8	82.0	82.3	82.6	83.1	83.6	84.4
GE 500	49.2	51.1	61.2	64.2	70.7	72.3	77.1	79.8	81.1	82.9	84.1	84.4	84.7	85.2	85.7	86.7
GE 400	49.7	51.5	61.9	65.7	72.6	74.5	80.0	82.7	84.2	85.9	87.5	88.0	88.4	88.8	89.3	90.4
GE 300	49.7	51.5	62.0	65.8	72.7	74.7	80.5	83.3	84.8	86.8	88.6	89.3	89.9	90.3	91.2	92.7
GE 200	49.7	51.5	62.0	65.8	72.7	74.7	80.5	83.3	84.9	87.3	89.3	90.2	91.1	91.8	93.0	96.9
GE 100	49.7	51.5	62.0	65.8	72.7	74.7	80.5	83.3	84.9	87.3	89.3	90.2	91.1	92.0	93.7	99.7
GE 000	49.7	51.5	62.0	65.8	72.7	74.7	80.5	83.3	84.9	87.3	89.3	90.2	91.1	92.0	93.7	100.0

TOTAL NUMBER OF OBSERVATIONS 910

D - 2 - 83

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	11.9	12.2	17.0	17.4	19.1	19.4	20.4	21.3	21.6	22.6	23.2	23.5	23.8	24.3	25.5	27.0
GE 20000	13.3	13.6	18.6	19.0	21.0	21.4	22.5	23.3	23.7	24.6	25.3	25.6	25.8	26.3	27.5	29.3
GE 18000	13.3	13.6	18.6	19.0	21.0	21.4	22.5	23.3	23.7	24.6	25.3	25.6	25.8	26.3	27.5	29.3
GE 16000	13.3	13.6	18.6	19.0	21.0	21.4	22.5	23.3	23.7	24.6	25.3	25.6	25.8	26.3	27.5	29.3
GE 14000	13.3	13.6	18.6	19.0	21.1	21.5	22.6	23.4	23.8	24.7	25.4	25.7	25.9	26.5	27.6	29.4
GE 12000	13.3	13.6	18.6	19.0	21.1	21.5	22.6	23.4	23.8	24.7	25.4	25.7	25.9	26.5	27.6	29.4
GE 10000	14.0	14.4	19.8	20.4	22.7	23.1	24.3	25.5	25.8	26.8	27.4	27.9	28.1	28.6	29.8	31.5
GE 9000	14.7	15.0	20.4	21.1	23.3	23.8	24.9	26.1	26.5	27.4	28.1	28.5	28.7	29.3	30.5	32.2
GE 8000	16.0	16.3	21.7	22.4	25.1	25.6	26.8	28.1	28.7	29.7	30.6	31.1	31.3	31.9	33.0	34.8
GE 7000	16.1	16.4	21.8	22.5	25.2	25.7	27.0	28.5	29.2	30.1	31.1	31.6	31.9	32.4	33.6	35.3
GE 6000	16.1	16.4	21.8	22.5	25.4	25.9	27.2	28.7	29.4	30.3	31.3	31.9	32.1	32.6	33.8	35.5
GE 5000	16.3	16.6	22.0	22.7	25.6	26.1	27.4	28.9	29.6	30.6	31.5	32.2	32.4	32.9	34.1	35.9
GE 4500	17.1	17.4	23.3	24.6	28.0	28.5	29.8	31.3	32.1	33.0	34.0	34.7	34.9	35.4	36.6	38.3
GE 4000	18.1	18.5	25.4	26.8	30.1	30.7	32.0	33.5	34.2	35.3	36.3	36.9	37.1	37.7	38.9	40.6
GE 3500	20.0	20.3	28.2	29.7	33.4	33.9	35.5	37.0	37.8	38.9	39.8	40.5	40.7	41.4	42.8	44.5
GE 3000	22.1	22.5	30.7	32.2	36.2	36.7	38.3	40.0	40.8	41.9	43.0	43.6	43.8	44.5	45.9	47.6
GE 2500	23.8	24.1	32.5	34.0	38.0	38.6	40.2	41.8	42.7	43.7	44.8	45.5	45.7	46.3	47.7	49.5
GE 2000	25.7	26.0	35.3	36.9	41.4	42.0	43.7	45.5	46.3	47.4	48.5	49.1	49.4	50.0	51.4	53.1
GE 1800	27.4	27.8	37.1	38.8	43.3	44.0	45.7	47.4	48.3	49.4	50.4	51.1	51.3	51.9	53.3	55.1
GE 1500	31.3	31.6	42.0	43.7	48.4	49.1	51.1	52.9	53.8	55.0	56.2	56.8	57.1	57.9	59.3	61.0
GE 1200	33.6	34.0	45.2	47.1	52.5	53.2	55.2	57.0	58.1	59.4	60.6	61.2	61.7	62.5	63.9	65.7
GE 1000	34.6	35.0	47.3	49.4	55.2	56.0	58.5	60.4	61.6	62.9	64.3	64.9	65.3	66.2	67.6	69.3
GE 900	35.3	35.7	48.7	50.9	56.8	57.7	60.2	62.0	63.3	64.8	66.2	66.8	67.4	68.3	69.7	71.4
GE 800	36.1	36.5	50.6	52.9	59.0	59.9	62.5	64.5	65.9	67.4	68.8	69.5	70.1	71.0	72.4	74.1
GE 700	37.4	37.8	52.8	55.4	62.0	63.2	65.8	67.8	69.4	71.0	72.5	73.2	73.9	74.7	76.1	77.9
GE 600	38.0	38.4	53.9	56.8	64.3	65.7	68.3	70.5	72.1	73.7	75.2	75.9	76.6	77.4	78.8	80.6
GE 500	38.3	38.8	54.5	57.7	65.8	67.6	70.6	73.4	75.3	76.8	78.3	79.0	79.8	80.8	82.2	83.9
GE 400	38.3	38.8	55.4	58.7	67.4	69.7	73.0	75.8	77.8	79.7	81.3	82.1	82.9	83.9	85.3	87.0
GE 300	38.3	38.8	55.6	59.1	67.8	70.5	74.4	77.6	79.8	81.9	83.5	84.6	85.5	86.7	88.4	90.9
GE 200	38.3	38.8	55.6	59.1	68.0	70.7	74.7	78.0	80.1	82.4	84.6	85.6	86.6	88.1	91.0	95.2
GE 100	38.3	38.8	55.6	59.1	68.0	70.7	74.7	78.0	80.1	82.4	84.8	85.9	86.9	88.8	92.9	99.6
GE 000	38.3	38.8	55.6	59.1	68.0	70.7	74.7	78.0	80.1	82.4	84.8	85.9	86.9	88.8	92.9	100.0

TOTAL NUMBER OF OBSERVATIONS 926

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	12.6	12.8	16.1	16.8	18.8	19.8	20.2	20.9	21.7	22.3	22.7	23.0	23.1	23.4	24.0	25.1
GE 20000	13.3	13.5	18.4	19.1	21.7	22.8	23.2	23.9	24.7	25.3	25.7	26.0	26.1	26.5	27.0	28.7
GE 18000	13.3	13.5	18.4	19.1	21.7	22.8	23.2	23.9	24.7	25.3	25.7	26.0	26.1	26.5	27.0	28.7
GE 16000	13.3	13.5	18.4	19.1	21.7	22.8	23.2	23.9	24.7	25.3	25.7	26.0	26.1	26.5	27.0	28.7
GE 14000	13.3	13.5	18.4	19.1	21.7	22.8	23.2	23.9	24.7	25.3	25.7	26.0	26.1	26.5	27.0	28.7
GE 12000	13.3	13.5	18.4	19.1	21.7	22.8	23.2	23.9	24.7	25.3	25.7	26.0	26.1	26.5	27.0	28.7
GE 10000	13.7	13.9	19.2	20.0	23.0	24.2	24.8	25.5	26.3	26.9	27.3	27.6	27.7	28.1	28.6	30.3
GE 9000	14.3	14.5	19.9	20.6	23.7	24.8	25.5	26.1	27.0	27.5	28.0	28.3	28.4	28.7	29.2	31.0
GE 8000	15.1	15.3	20.9	21.8	25.2	26.5	27.3	28.0	28.8	29.4	29.8	30.1	30.2	30.5	31.1	32.8
GE 7000	15.3	15.5	21.3	22.3	25.8	27.1	28.0	28.6	29.5	30.0	30.4	30.8	30.9	31.2	31.7	33.4
GE 6000	15.7	15.9	21.8	22.8	26.3	27.6	28.5	29.1	30.0	30.5	31.0	31.3	31.4	31.7	32.3	34.0
GE 5000	16.5	16.7	22.8	23.9	27.5	28.9	29.8	30.5	31.4	31.9	32.4	32.7	32.8	33.2	33.9	35.7
GE 4500	16.9	17.1	23.8	25.2	28.9	30.4	31.3	32.0	32.9	33.4	33.9	34.2	34.3	34.7	35.4	37.2
GE 4000	18.6	18.9	26.0	27.4	31.2	32.7	33.5	34.3	35.2	35.8	36.3	36.8	36.9	37.4	38.1	40.0
GE 3500	21.2	21.5	28.9	30.3	34.1	35.8	36.7	37.4	38.4	39.0	39.6	40.0	40.2	40.8	41.4	43.3
GE 3000	24.0	24.4	32.3	33.7	37.6	39.4	40.2	41.1	42.0	42.7	43.2	43.7	43.9	44.4	45.1	47.0
GE 2500	25.8	26.2	34.8	36.2	40.2	41.9	42.8	43.7	44.7	45.6	46.2	46.7	47.0	47.5	48.2	50.1
GE 2000	28.1	28.5	38.0	39.6	44.0	45.7	46.6	47.5	48.6	49.5	50.1	50.8	51.1	51.6	52.3	54.2
GE 1800	29.4	29.9	39.6	41.2	45.6	47.3	48.2	49.1	50.2	51.2	51.8	52.5	52.8	53.3	54.0	55.9
GE 1500	34.1	34.8	45.9	47.6	52.2	54.1	55.1	56.1	57.3	58.4	59.0	59.7	60.0	60.6	61.4	63.4
GE 1200	36.9	37.7	49.5	51.4	56.1	58.1	59.0	60.1	61.3	62.4	63.0	63.8	64.1	64.7	65.5	67.5
GE 1000	39.2	40.2	53.2	55.3	60.5	62.8	64.0	65.2	66.3	67.4	68.2	68.9	69.2	69.9	70.6	72.7
GE 900	40.0	41.0	54.7	57.0	62.7	65.1	66.5	67.6	68.9	70.2	71.0	71.7	72.0	72.7	73.4	75.5
GE 800	40.8	41.7	55.7	58.1	64.1	66.5	67.8	69.1	70.4	71.7	72.5	73.2	73.5	74.2	74.9	77.0
GE 700	41.5	42.5	58.0	60.5	67.0	69.4	70.9	72.3	73.5	74.9	75.7	76.5	76.9	77.5	78.3	80.3
GE 600	42.2	43.1	59.0	61.8	68.6	71.1	72.7	74.5	76.0	77.4	78.3	79.0	79.6	80.2	81.0	83.0
GE 500	42.5	43.4	60.3	63.5	71.3	74.3	76.2	78.7	80.6	82.0	83.0	84.1	84.8	85.5	86.2	88.3
GE 400	42.6	43.5	60.5	63.9	71.6	74.9	77.2	80.0	82.4	83.8	84.8	86.2	87.0	87.7	88.6	90.9
GE 300	42.6	43.5	60.6	64.0	71.8	75.3	77.5	80.5	83.1	84.7	86.2	87.8	88.7	89.5	90.8	93.7
GE 200	42.6	43.5	60.8	64.2	72.0	75.5	77.7	80.8	83.4	85.3	86.8	88.4	89.5	91.2	92.8	97.1
GE 100	42.6	43.5	60.8	64.2	72.0	75.5	77.7	80.8	83.4	85.3	87.0	88.6	89.7	91.5	93.9	99.9
GE 000	42.6	43.5	60.8	64.2	72.0	75.5	77.7	80.8	83.4	85.3	87.0	88.6	89.7	91.5	94.0	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	19.4	20.2	25.2	25.8	26.9	27.5	27.6	27.6	27.7	27.8	27.8	27.8	27.8	27.8	27.8	27.8
GE 20000	23.1	24.2	30.4	31.2	32.7	33.4	33.5	33.5	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9
GE 18000	23.1	24.2	30.4	31.2	32.7	33.4	33.5	33.5	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9
GE 16000	23.1	24.2	30.4	31.2	32.7	33.4	33.5	33.5	33.8	33.9	33.9	33.9	33.9	33.9	33.9	33.9
GE 14000	23.1	24.2	30.5	31.3	32.8	33.5	33.7	33.7	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0
GE 12000	23.3	24.4	30.8	31.5	33.0	33.8	33.9	33.9	34.1	34.2	34.2	34.2	34.2	34.2	34.2	34.2
GE 10000	24.7	25.8	32.4	33.2	34.7	35.5	35.6	35.6	35.8	35.9	35.9	35.9	35.9	35.9	35.9	35.9
GE 9000	25.3	26.3	33.0	33.9	35.4	36.1	36.2	36.3	36.6	36.7	36.7	36.7	36.7	36.7	36.7	36.7
GE 8000	26.3	27.4	34.5	35.4	36.9	37.6	37.7	38.0	38.2	38.3	38.3	38.3	38.3	38.3	38.3	38.3
GE 7000	26.8	27.8	35.1	35.9	37.4	38.2	38.3	38.5	38.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8
GE 6000	27.1	28.2	35.4	36.2	37.7	38.5	38.6	38.8	39.0	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 5000	28.6	29.7	37.2	38.1	39.6	40.3	40.4	40.6	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0
GE 4500	29.5	30.6	38.3	39.1	40.6	41.4	41.6	41.8	42.0	42.2	42.3	42.3	42.3	42.3	42.3	42.3
GE 4000	31.8	33.0	41.0	41.8	43.3	44.1	44.3	44.5	44.7	44.8	44.9	44.9	44.9	44.9	44.9	44.9
GE 3500	36.0	37.2	45.3	46.1	47.6	48.5	48.7	49.0	49.2	49.4	49.5	49.5	49.5	49.5	49.5	49.5
GE 3000	41.5	43.1	51.7	52.8	54.5	55.5	55.8	56.2	56.5	56.6	56.7	56.7	56.7	56.7	56.7	56.7
GE 2500	44.0	45.7	54.5	55.7	57.5	58.7	59.0	59.5	59.7	59.8	59.9	59.9	59.9	59.9	59.9	59.9
GE 2000	48.2	50.0	59.9	61.1	62.9	64.1	64.4	64.9	65.3	65.4	65.5	65.5	65.5	65.5	65.5	65.5
GE 1800	50.1	52.2	62.2	63.3	65.4	66.6	66.9	67.4	67.7	67.8	68.0	68.0	68.0	68.0	68.0	68.0
GE 1500	55.4	57.4	68.8	70.2	72.7	74.1	74.6	75.2	75.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7
GE 1200	58.1	60.1	72.5	73.9	76.9	78.3	79.1	79.7	80.0	80.1	80.2	80.2	80.2	80.2	80.2	80.2
GE 1000	59.0	61.1	74.4	75.9	79.4	80.8	81.6	82.3	82.7	82.8	82.9	83.0	83.0	83.0	83.0	83.0
GE 900	60.0	62.2	76.1	77.8	81.4	83.0	84.0	84.7	85.3	85.4	85.5	85.6	85.6	85.6	85.6	85.6
GE 800	60.5	62.8	77.2	78.9	83.0	84.7	85.7	86.5	87.1	87.2	87.3	87.4	87.4	87.4	87.4	87.4
GE 700	61.2	63.4	78.5	80.4	85.3	87.4	88.4	89.1	89.8	89.9	90.1	90.2	90.2	90.3	90.3	90.3
GE 600	61.3	63.7	79.5	81.9	87.2	89.5	90.4	91.3	92.0	92.2	92.4	92.5	92.5	92.6	92.6	92.6
GE 500	61.4	63.8	79.8	82.6	88.4	90.8	91.8	92.9	93.7	93.9	94.1	94.2	94.2	94.3	94.3	94.3
GE 400	61.7	64.1	80.2	83.0	89.0	91.5	92.6	93.9	94.6	95.2	95.6	95.7	95.8	96.0	96.1	96.1
GE 300	61.9	64.3	80.4	83.2	89.2	91.9	93.0	94.4	95.4	96.1	97.1	97.2	97.3	97.6	97.7	97.7
GE 200	61.9	64.3	80.4	83.2	89.2	91.9	93.1	94.5	95.6	96.3	97.4	97.7	98.1	98.7	99.1	99.5
GE 100	61.9	64.3	80.4	83.2	89.2	91.9	93.1	94.5	95.6	96.3	97.4	97.7	98.1	98.8	99.6	100.0
GE 000	61.9	64.3	80.4	83.2	89.2	91.9	93.1	94.5	95.6	96.3	97.4	97.7	98.1	98.8	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	23.1	24.4	29.1	29.8	30.0	30.0	30.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
GE 20000	28.2	29.9	35.3	36.1	36.8	36.9	37.1	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
GE 18000	28.3	30.0	35.5	36.5	37.1	37.2	37.4	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
GE 16000	28.3	30.0	35.6	36.6	37.2	37.3	37.5	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6	37.6
GE 14000	28.9	30.6	36.3	37.3	38.0	38.1	38.3	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4
GE 12000	29.2	31.1	36.9	38.0	38.6	38.7	38.9	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
GE 10000	32.3	34.3	40.8	42.0	42.9	43.0	43.2	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
GE 9000	32.9	34.9	41.4	42.8	43.7	43.8	44.0	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
GE 8000	34.6	36.8	43.9	45.4	46.2	46.6	46.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 7000	34.8	37.0	44.1	45.6	46.5	46.8	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
GE 6000	35.2	37.3	44.4	45.9	46.8	47.1	47.3	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
GE 5000	36.5	38.7	45.8	47.3	48.2	48.5	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
GE 4500	38.3	40.5	47.7	49.2	50.2	50.5	50.8	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
GE 4000	41.8	44.2	51.7	53.2	54.2	54.5	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
GE 3500	46.3	48.9	57.0	58.7	59.7	60.0	60.3	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 3000	52.2	54.9	63.9	65.6	66.8	67.1	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
GE 2500	55.5	58.3	67.4	69.5	70.8	71.1	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
GE 2000	58.8	61.7	72.0	74.1	75.8	76.2	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
GE 1800	59.5	62.4	73.2	75.4	77.2	77.8	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
GE 1500	61.9	64.8	76.6	78.9	81.0	81.6	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 1200	64.0	67.0	79.1	81.7	84.5	85.3	85.7	85.8	85.9	86.0	86.0	86.0	86.0	86.0	86.0	86.0
GE 1000	65.4	68.4	81.4	84.0	87.8	88.6	89.1	89.2	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 900	65.7	68.7	82.0	84.6	88.5	89.2	89.9	90.0	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2
GE 800	66.2	69.4	83.4	86.0	90.5	91.3	92.0	92.2	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 700	66.9	70.0	84.5	87.4	92.2	93.0	93.8	93.9	94.4	94.5	94.5	94.5	94.5	94.6	94.6	94.6
GE 600	67.5	70.6	85.3	88.2	93.1	94.4	95.3	95.5	96.0	96.1	96.1	96.1	96.1	96.2	96.2	96.2
GE 500	67.6	70.8	85.4	88.3	93.2	94.5	95.4	95.7	96.2	96.5	96.6	96.6	96.6	96.8	96.8	96.8
GE 400	67.6	70.8	85.4	88.4	93.8	95.1	96.2	97.0	97.5	98.0	98.1	98.1	98.1	98.3	98.3	98.3
GE 300	67.6	70.8	85.4	88.4	93.8	95.1	96.3	97.1	97.7	98.5	98.9	98.9	99.1	99.4	99.4	99.4
GE 200	67.6	70.8	85.4	88.4	93.8	95.1	96.3	97.2	98.0	98.7	99.1	99.1	99.5	99.7	99.8	99.9
GE 100	67.6	70.8	85.4	88.4	93.8	95.1	96.3	97.2	98.0	98.7	99.1	99.1	99.5	99.8	99.9	100.0
GE 000	67.6	70.8	85.4	88.4	93.8	95.1	96.3	97.2	98.0	98.7	99.1	99.1	99.5	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	29.0	29.4	33.8	35.2	36.1	36.2	36.5	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
GE 20000	32.2	32.5	37.4	39.1	40.6	40.8	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 18000	32.2	32.5	37.4	39.1	40.6	40.8	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 16000	32.2	32.5	37.4	39.1	40.6	40.8	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
GE 14000	32.7	33.0	38.2	39.9	41.4	41.5	42.0	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
GE 12000	32.9	33.2	38.4	40.1	41.6	41.7	42.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
GE 10000	35.8	36.2	41.5	43.4	45.3	45.4	45.9	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
GE 9000	36.3	36.8	42.3	44.2	46.0	46.1	46.7	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
GE 8000	39.0	39.6	45.4	47.3	49.6	49.7	50.4	50.8	50.8	50.9	50.9	51.0	51.0	51.0	51.0	51.0
GE 7000	39.7	40.2	46.3	48.3	50.5	50.6	51.4	51.7	51.7	51.8	51.8	51.9	51.9	51.9	51.9	51.9
GE 6000	40.0	40.5	46.7	48.6	50.9	51.0	51.7	52.0	52.0	52.2	52.2	52.3	52.3	52.3	52.3	52.3
GE 5000	40.5	41.1	47.2	49.1	51.4	51.5	52.3	52.6	52.6	52.7	52.7	52.8	52.8	52.8	52.8	52.8
GE 4500	42.8	43.4	49.9	51.8	54.1	54.2	54.9	55.3	55.3	55.4	55.4	55.5	55.5	55.5	55.5	55.5
GE 4000	47.0	47.7	55.2	57.4	60.2	60.3	61.1	61.4	61.4	61.5	61.5	61.6	61.6	61.6	61.6	61.6
GE 3500	51.3	52.3	59.9	62.2	65.3	65.5	66.2	66.6	66.6	66.7	66.7	66.8	66.8	66.8	66.8	66.8
GE 3000	55.3	56.2	64.2	66.5	69.9	70.1	70.9	71.2	71.2	71.3	71.3	71.4	71.4	71.4	71.4	71.4
GE 2500	57.2	58.4	66.6	69.0	72.7	72.9	73.7	74.0	74.0	74.1	74.1	74.2	74.2	74.2	74.2	74.2
GE 2000	60.3	61.6	70.4	73.1	76.8	77.0	77.8	78.2	78.2	78.3	78.3	78.4	78.5	78.5	78.5	78.5
GE 1800	61.7	63.0	71.8	74.5	78.2	78.5	79.4	79.7	79.7	79.8	79.8	79.9	80.0	80.0	80.0	80.0
GE 1500	64.5	65.8	75.1	77.7	81.6	82.0	82.9	83.2	83.2	83.3	83.3	83.4	83.5	83.5	83.5	83.5
GE 1200	66.6	68.0	78.0	80.8	84.9	85.6	86.5	86.8	86.8	87.0	87.2	87.3	87.4	87.4	87.4	87.4
GE 1000	67.5	69.0	79.7	82.5	87.1	87.7	88.6	88.9	88.9	89.1	89.4	89.5	89.6	89.6	89.6	89.6
GE 900	67.6	69.1	80.3	83.1	88.1	88.9	89.8	90.1	90.1	90.3	90.5	90.6	90.8	90.8	90.8	90.8
GE 800	68.2	69.7	81.0	83.9	88.9	89.9	90.8	91.1	91.1	91.4	91.6	91.7	91.8	91.8	91.8	91.8
GE 700	68.5	70.0	81.7	84.6	89.9	90.9	91.8	92.2	92.2	92.5	92.7	92.8	92.9	92.9	92.9	92.9
GE 600	69.0	70.5	82.3	85.3	90.6	91.8	93.0	93.4	93.4	93.8	94.1	94.2	94.3	94.3	94.3	94.3
GE 500	69.2	70.8	82.7	85.7	91.1	92.4	93.8	94.3	94.4	95.1	95.5	95.6	95.7	95.8	96.0	96.0
GE 400	69.2	70.8	82.7	85.8	91.2	92.5	94.1	94.6	94.8	95.5	95.9	96.0	96.1	96.2	96.5	96.5
GE 300	69.2	70.8	82.7	85.8	91.2	92.5	94.2	95.1	95.3	96.3	96.9	97.0	97.4	97.5	97.8	97.8
GE 200	69.2	70.8	82.7	85.8	91.4	92.9	94.8	95.7	96.1	97.2	98.1	98.4	99.1	99.2	99.9	100.0
GE 100	69.2	70.8	82.7	85.8	91.4	92.9	94.8	95.7	96.1	97.2	98.1	98.4	99.1	99.2	99.9	100.0
GE 000	69.2	70.8	82.7	85.8	91.4	92.9	94.8	95.7	96.1	97.2	98.1	98.4	99.1	99.2	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 930

D - 2 - 88

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	29.2	30.3	33.6	35.0	37.2	38.0	38.8	39.1	39.1	39.4	39.5	39.8	39.8	39.8	39.8	39.8
GE 20000	32.9	34.2	37.7	39.2	42.1	43.0	44.1	44.4	44.5	44.8	44.9	45.2	45.2	45.2	45.2	45.2
GE 18000	32.9	34.2	37.7	39.2	42.1	43.0	44.1	44.4	44.5	44.8	44.9	45.2	45.2	45.2	45.2	45.2
GE 16000	32.9	34.2	37.7	39.2	42.1	43.0	44.1	44.4	44.5	44.8	44.9	45.2	45.2	45.2	45.2	45.2
GE 14000	33.0	34.3	37.8	39.3	42.2	43.1	44.2	44.5	44.6	44.9	45.0	45.3	45.3	45.3	45.3	45.3
GE 12000	33.1	34.4	37.9	39.4	42.3	43.2	44.3	44.6	44.7	45.0	45.2	45.4	45.4	45.4	45.4	45.4
GE 10000	35.1	36.4	40.0	41.9	44.8	45.7	46.8	47.1	47.2	47.5	47.6	47.8	47.8	47.8	47.8	47.8
GE 9000	35.7	37.0	40.8	42.8	45.7	46.6	47.6	48.0	48.1	48.4	48.5	48.7	48.7	48.7	48.7	48.7
GE 8000	38.5	39.8	43.8	45.8	48.7	49.6	50.8	51.1	51.2	51.6	51.7	51.9	51.9	51.9	51.9	52.2
GE 7000	38.6	39.9	44.2	46.2	49.1	50.0	51.2	51.5	51.6	52.0	52.2	52.4	52.4	52.4	52.4	52.6
GE 6000	39.1	40.4	44.7	46.8	49.7	50.5	51.7	52.0	52.2	52.6	52.7	52.9	52.9	52.9	52.9	53.1
GE 5000	40.0	41.3	45.6	47.6	50.5	51.4	52.6	52.9	53.0	53.4	53.6	53.8	53.8	53.8	53.8	54.0
GE 4500	41.3	42.6	47.0	49.0	51.9	52.8	54.1	54.4	54.5	55.1	55.2	55.4	55.4	55.4	55.4	55.6
GE 4000	45.6	47.0	51.5	53.7	57.0	57.9	59.2	59.5	59.6	60.1	60.2	60.5	60.5	60.5	60.5	60.7
GE 3500	49.4	50.9	55.6	57.8	61.7	62.6	64.1	64.4	64.5	65.2	65.3	65.5	65.5	65.5	65.5	65.7
GE 3000	53.3	54.8	59.9	62.1	66.2	67.0	68.6	69.0	69.1	69.8	69.9	70.2	70.2	70.2	70.2	70.4
GE 2500	55.4	57.0	62.2	64.3	68.5	69.4	71.0	71.3	71.4	72.2	72.3	72.5	72.5	72.5	72.5	72.7
GE 2000	58.4	60.1	65.5	67.7	71.9	72.7	74.4	74.7	74.8	75.5	75.6	75.9	75.9	75.9	75.9	76.1
GE 1800	59.3	61.0	66.4	68.5	72.8	73.7	75.3	75.6	75.8	76.5	76.6	76.8	76.8	76.8	76.8	77.0
GE 1500	62.1	63.9	69.6	71.9	76.3	77.2	78.8	79.2	79.3	80.3	80.5	80.7	80.7	80.7	80.7	80.9
GE 1200	64.9	66.7	72.8	75.3	80.1	80.9	82.5	83.0	83.1	84.1	84.3	84.5	84.5	84.5	84.5	84.7
GE 1000	67.1	69.2	75.9	78.4	83.7	84.7	86.3	86.7	86.9	87.8	88.0	88.3	88.3	88.3	88.3	88.5
GE 900	67.6	69.6	76.5	79.1	84.7	85.7	87.3	87.7	87.8	88.8	89.0	89.2	89.2	89.2	89.2	89.4
GE 800	68.1	70.2	77.4	80.2	86.2	87.2	88.8	89.3	89.4	90.4	90.6	90.8	90.8	90.8	90.8	91.1
GE 700	68.6	70.8	78.1	80.9	87.0	87.9	89.5	90.1	90.2	91.2	91.4	91.6	91.6	91.6	91.6	91.8
GE 600	69.1	71.2	79.1	82.2	88.5	89.4	91.2	91.7	91.8	92.8	93.0	93.2	93.2	93.2	93.2	93.4
GE 500	69.2	71.3	79.4	82.8	89.0	90.1	91.9	92.8	93.0	94.1	94.3	94.5	94.5	94.5	94.5	94.7
GE 400	69.2	71.3	79.5	82.9	89.1	90.3	92.2	93.1	93.5	94.6	94.8	95.3	95.3	95.3	95.3	95.5
GE 300	69.2	71.3	79.6	83.0	89.2	90.5	93.1	94.1	94.5	95.7	96.1	96.6	96.7	96.9	96.9	97.1
GE 200	69.2	71.3	79.6	83.1	89.3	90.6	93.3	94.3	94.7	95.9	96.4	97.0	97.3	97.7	98.1	98.4
GE 100	69.2	71.3	79.6	83.1	89.3	90.6	93.3	94.3	94.7	95.9	96.4	97.0	97.3	98.0	99.1	99.8
GE 000	69.2	71.3	79.6	83.1	89.3	90.6	93.3	94.3	94.7	95.9	96.4	97.0	97.3	98.0	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 928

D - 2 - 89

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	21.2	21.9	25.8	26.6	28.2	28.7	29.5	30.0	30.4	30.7	31.0	31.2	31.3	31.5	31.8	32.3
GE 20000	24.0	24.9	29.4	30.4	32.5	33.0	34.0	34.5	34.9	35.3	35.5	35.7	35.8	36.1	36.4	37.0
GE 18000	24.1	24.9	29.4	30.4	32.5	33.1	34.0	34.6	34.9	35.3	35.6	35.7	35.9	36.1	36.4	37.0
GE 16000	24.1	24.9	29.5	30.4	32.6	33.1	34.0	34.6	34.9	35.3	35.6	35.8	35.9	36.1	36.4	37.0
GE 14000	24.2	25.1	29.7	30.6	32.8	33.3	34.3	34.8	35.2	35.6	35.8	36.0	36.1	36.4	36.7	37.3
GE 12000	24.3	25.2	29.8	30.8	33.0	33.5	34.5	35.0	35.3	35.7	36.0	36.2	36.3	36.5	36.8	37.4
GE 10000	26.0	27.0	31.8	33.0	35.3	35.9	36.8	37.4	37.8	38.2	38.5	38.7	38.8	39.0	39.3	39.9
GE 9000	26.7	27.6	32.6	33.8	36.2	36.7	37.7	38.3	38.7	39.1	39.4	39.6	39.7	39.9	40.2	40.8
GE 8000	28.5	29.5	34.7	35.9	38.5	39.1	40.2	40.9	41.3	41.8	42.2	42.4	42.5	42.7	43.0	43.6
GE 7000	28.8	29.7	35.1	36.3	38.9	39.6	40.7	41.4	41.8	42.3	42.6	42.8	43.0	43.2	43.5	44.1
GE 6000	29.0	30.0	35.4	36.6	39.2	39.8	41.0	41.7	42.1	42.6	42.9	43.1	43.2	43.5	43.8	44.4
GE 5000	29.7	30.7	36.2	37.4	40.1	40.7	41.8	42.5	42.9	43.4	43.8	44.0	44.1	44.4	44.7	45.3
GE 4500	31.0	32.0	37.7	39.1	41.8	42.4	43.6	44.3	44.8	45.3	45.6	45.9	46.0	46.2	46.6	47.2
GE 4000	33.6	34.8	40.9	42.4	45.4	46.1	47.3	48.0	48.4	49.0	49.4	49.6	49.7	50.0	50.3	51.0
GE 3500	36.9	38.1	44.7	46.2	49.5	50.2	51.5	52.2	52.7	53.3	53.7	53.9	54.1	54.3	54.7	55.3
GE 3000	40.6	42.0	49.0	50.6	54.0	54.7	56.1	56.9	57.4	58.0	58.5	58.7	58.8	59.1	59.5	60.1
GE 2500	42.6	44.0	51.3	53.0	56.5	57.3	58.6	59.5	59.9	60.6	61.1	61.3	61.5	61.7	62.1	62.7
GE 2000	45.6	47.0	55.1	56.8	60.5	61.3	62.7	63.6	64.1	64.7	65.2	65.5	65.7	65.9	66.3	66.9
GE 1800	46.8	48.3	56.6	58.4	62.2	63.0	64.4	65.3	65.8	66.5	67.0	67.2	67.4	67.7	68.0	68.7
GE 1500	50.3	51.9	61.1	63.0	67.0	67.9	69.4	70.3	70.8	71.6	72.2	72.4	72.6	72.9	73.3	73.9
GE 1200	53.0	54.6	64.4	66.5	70.9	71.9	73.5	74.4	75.0	75.8	76.3	76.6	76.8	77.1	77.5	78.2
GE 1000	54.5	56.2	66.9	69.0	73.9	75.1	76.9	77.8	78.4	79.3	79.9	80.1	80.3	80.7	81.0	81.7
GE 900	54.9	56.7	67.8	70.0	75.1	76.4	78.3	79.3	79.9	80.8	81.4	81.7	81.9	82.2	82.6	83.2
GE 800	55.6	57.4	68.9	71.2	76.5	77.9	79.8	80.8	81.5	82.4	83.0	83.3	83.5	83.9	84.2	84.9
GE 700	56.3	58.1	70.3	72.7	78.5	80.0	82.0	83.1	83.9	84.8	85.4	85.7	86.0	86.3	86.7	87.3
GE 600	56.8	58.6	71.2	73.9	80.0	81.7	83.8	85.1	85.8	86.8	87.5	87.8	88.1	88.4	88.8	89.5
GE 500	57.1	58.9	71.7	74.7	81.1	83.0	85.3	86.8	87.7	88.7	89.5	89.8	90.1	90.5	90.9	91.6
GE 400	57.2	59.0	72.1	75.2	81.9	83.9	86.5	88.1	89.2	90.4	91.2	91.7	92.0	92.4	92.9	93.6
GE 300	57.3	59.1	72.2	75.3	82.0	84.2	87.0	88.8	90.0	91.4	92.6	93.1	93.6	94.1	94.7	95.7
GE 200	57.3	59.1	72.2	75.3	82.1	84.3	87.3	89.1	90.4	91.9	93.2	93.9	94.5	95.3	96.3	98.1
GE 100	57.3	59.1	72.2	75.3	82.1	84.3	87.3	89.1	90.4	91.9	93.3	93.9	94.6	95.6	97.1	99.9
GE 000	57.3	59.1	72.2	75.3	82.1	84.3	87.3	89.1	90.4	91.9	93.3	93.9	94.6	95.6	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 7389

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	21.5	22.6	25.4	26.2	27.7	27.9	28.0	28.4	28.7	29.3	29.8	29.8	29.9	30.3	30.9	31.5
GE 20000	22.6	23.8	26.8	27.7	29.4	29.8	29.9	30.2	30.7	31.3	31.8	31.8	32.0	32.4	33.0	33.6
GE 18000	22.6	23.8	26.8	27.7	29.4	29.8	29.9	30.2	30.7	31.3	31.8	31.8	32.0	32.4	33.0	33.6
GE 16000	22.6	23.8	26.8	27.7	29.4	29.8	29.9	30.2	30.7	31.3	31.8	31.8	32.0	32.4	33.0	33.6
GE 14000	22.6	23.8	26.8	27.7	29.4	29.8	29.9	30.2	30.7	31.3	31.8	31.8	32.0	32.4	33.0	33.6
GE 12000	22.6	23.8	27.0	27.9	29.7	30.0	30.1	30.5	31.1	31.7	32.3	32.3	32.4	32.9	33.4	34.0
GE 10000	23.4	24.6	27.9	29.3	31.1	31.5	31.6	32.0	32.6	33.2	33.8	33.8	33.9	34.4	34.9	35.5
GE 9000	24.1	25.3	28.6	30.0	32.0	32.3	32.4	32.8	33.4	34.0	34.7	34.7	34.8	35.3	35.9	36.4
GE 8000	25.9	27.0	30.5	31.8	33.8	34.1	34.5	34.8	35.5	36.1	36.8	36.8	36.9	37.4	37.9	38.5
GE 7000	26.0	27.1	30.6	32.0	33.9	34.3	34.6	34.9	35.6	36.2	36.9	36.9	37.0	37.5	38.0	38.6
GE 6000	26.3	27.5	30.9	32.3	34.3	34.6	34.9	35.3	36.0	36.6	37.2	37.2	37.4	37.8	38.4	39.0
GE 5000	26.9	28.0	31.5	33.0	34.9	35.3	35.6	36.0	36.7	37.2	37.9	37.9	38.0	38.5	39.1	39.7
GE 4500	28.5	29.8	33.2	34.7	36.7	37.0	37.4	37.7	38.4	39.1	39.8	39.8	39.9	40.3	40.9	41.5
GE 4000	33.0	34.5	37.9	39.4	41.4	41.7	42.1	42.4	43.1	43.8	44.5	44.5	44.6	45.1	45.6	46.2
GE 3500	35.2	36.7	40.7	42.2	44.4	44.7	45.1	45.4	46.1	46.8	47.5	47.5	47.7	48.2	48.7	49.3
GE 3000	36.6	38.0	42.5	44.3	46.7	47.0	47.4	47.7	48.4	49.1	49.8	49.8	50.0	50.5	51.0	51.6
GE 2500	37.7	39.2	43.7	45.5	47.9	48.3	48.7	49.1	49.8	50.5	51.1	51.1	51.4	51.8	52.4	53.0
GE 2000	40.2	41.8	47.2	49.1	51.5	51.8	52.3	52.8	53.6	54.3	54.9	54.9	55.2	55.6	56.2	56.8
GE 1800	42.1	43.8	49.2	51.0	53.6	53.9	54.4	54.9	55.7	56.4	57.1	57.1	57.4	57.8	58.4	59.0
GE 1500	44.4	46.2	52.4	54.4	57.1	57.5	57.9	58.9	59.8	60.5	61.1	61.1	61.4	61.8	62.4	63.0
GE 1200	48.5	50.3	57.5	59.5	62.5	62.9	63.3	64.4	65.4	66.1	66.8	66.8	67.0	67.5	68.0	68.6
GE 1000	52.1	54.0	61.4	63.4	66.7	67.1	67.8	69.0	70.3	71.0	71.7	71.7	72.0	72.4	73.0	73.6
GE 900	53.2	55.2	62.6	64.7	68.0	68.6	69.4	70.8	72.3	73.0	73.7	73.7	74.0	74.5	75.1	75.6
GE 800	54.0	56.0	63.7	65.7	69.2	69.8	70.6	72.0	73.6	74.4	75.2	75.2	75.5	76.0	76.6	77.1
GE 700	55.3	57.4	65.1	67.2	71.1	71.7	72.5	74.4	76.0	76.9	77.7	77.7	78.0	78.5	79.1	79.7
GE 600	56.7	58.7	67.0	69.3	73.4	74.8	76.2	78.0	79.7	80.6	81.4	81.4	81.7	82.2	82.8	83.3
GE 500	56.9	59.1	67.9	70.2	74.8	76.2	77.9	80.2	81.8	82.8	83.6	83.6	83.9	84.4	84.9	85.5
GE 400	57.9	60.1	69.4	72.0	76.9	78.3	80.0	82.5	84.5	85.4	86.2	86.3	86.7	87.1	87.7	88.3
GE 300	57.9	60.1	69.4	72.1	77.4	78.7	80.7	83.3	85.3	86.4	87.6	87.7	88.0	88.9	89.9	90.5
GE 200	57.9	60.1	69.4	72.2	77.5	79.0	81.0	83.8	86.3	87.6	88.7	89.0	89.5	90.7	92.8	94.4
GE 100	57.9	60.1	69.4	72.2	77.6	79.1	81.1	83.9	86.4	87.7	89.1	89.4	90.0	91.6	94.3	99.7
GE 000	57.9	60.1	69.4	72.2	77.6	79.1	81.1	83.9	86.4	87.7	89.2	89.5	90.1	91.8	94.5	100.0

TOTAL NUMBER OF OBSERVATIONS 870

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	17.0	18.3	19.9	20.8	22.6	23.1	24.0	25.1	25.8	26.3	26.5	26.5	27.3	27.7	27.8	28.7
GE 20000	18.0	19.3	21.2	22.2	24.0	24.7	25.6	26.8	27.4	27.9	28.2	28.2	29.4	29.7	30.0	30.9
GE 18000	18.0	19.3	21.2	22.2	24.0	24.7	25.6	26.8	27.4	27.9	28.2	28.2	29.4	29.7	30.0	30.9
GE 16000	18.0	19.3	21.2	22.2	24.0	24.7	25.6	26.8	27.4	27.9	28.2	28.2	29.4	29.7	30.0	30.9
GE 14000	18.0	19.3	21.2	22.2	24.0	24.7	25.6	26.8	27.4	27.9	28.2	28.2	29.4	29.7	30.0	30.9
GE 12000	18.0	19.3	21.4	22.4	24.2	24.9	25.8	27.0	27.7	28.1	28.6	28.6	29.7	30.1	30.3	31.2
GE 10000	18.5	19.7	22.2	23.4	25.3	25.9	26.9	28.0	28.7	29.2	29.6	29.6	30.8	31.1	31.3	32.3
GE 9000	19.3	20.6	23.0	24.2	26.1	26.8	27.7	28.8	29.5	30.0	30.4	30.4	31.6	31.9	32.1	33.1
GE 8000	19.7	21.1	23.9	25.1	27.0	27.7	28.6	29.7	30.4	30.9	31.3	31.3	32.5	32.8	33.1	34.0
GE 7000	19.7	21.1	23.9	25.1	27.0	27.7	28.6	29.7	30.4	30.9	31.3	31.3	32.5	32.8	33.1	34.0
GE 6000	20.1	21.5	24.2	25.5	27.4	28.2	29.2	30.3	31.0	31.5	31.9	31.9	33.1	33.4	33.6	34.6
GE 5000	20.4	21.8	24.6	26.1	28.1	28.9	29.9	31.0	31.7	32.1	32.6	32.6	33.8	34.1	34.3	35.2
GE 4500	21.8	23.2	25.9	27.4	29.6	30.4	31.3	32.5	33.2	33.8	34.3	34.3	35.5	35.8	36.1	37.0
GE 4000	25.5	26.9	29.6	31.1	33.3	34.1	35.1	36.3	37.1	37.7	38.2	38.2	39.4	39.7	40.0	40.9
GE 3500	27.3	28.9	31.9	33.4	36.1	37.0	38.0	39.2	40.1	40.8	41.3	41.3	42.5	42.8	43.1	44.0
GE 3000	28.4	30.1	33.4	34.9	37.5	38.5	39.5	40.6	41.6	42.5	43.1	43.1	44.2	44.5	44.8	45.7
GE 2500	30.1	31.8	35.2	36.7	39.5	40.4	41.7	42.8	43.7	44.7	45.2	45.2	46.4	46.7	47.0	47.9
GE 2000	33.3	35.2	39.7	41.3	44.1	45.0	46.3	47.4	48.3	49.3	49.8	49.8	51.0	51.3	51.7	52.6
GE 1800	34.7	36.7	41.3	43.1	45.8	46.7	48.1	49.3	50.2	51.1	51.7	51.7	52.8	53.2	53.5	54.4
GE 1500	36.6	38.7	43.4	45.2	48.6	49.6	51.1	52.2	53.2	54.1	54.6	54.6	55.8	56.1	56.5	57.4
GE 1200	40.1	42.4	47.6	49.6	52.9	54.0	56.0	57.4	58.3	59.2	59.8	59.8	61.0	61.3	61.7	62.7
GE 1000	43.4	45.7	51.3	53.4	57.2	58.6	60.7	62.2	63.3	64.2	64.8	64.8	65.9	66.2	66.6	67.6
GE 900	44.9	47.2	53.4	55.5	59.5	60.8	63.0	64.6	65.7	66.6	67.2	67.2	68.3	68.7	69.0	70.0
GE 800	46.2	48.5	55.1	57.2	61.4	62.9	65.1	66.8	67.9	68.8	69.3	69.3	70.5	70.8	71.2	72.2
GE 700	47.0	49.3	56.1	58.2	62.8	64.3	66.9	69.1	70.1	71.2	71.8	71.8	72.9	73.2	73.6	74.6
GE 600	47.5	49.8	57.4	59.6	64.8	66.7	69.8	72.2	73.2	74.3	74.9	74.9	76.0	76.3	76.7	77.7
GE 500	48.9	51.2	59.8	62.1	67.6	69.6	72.9	75.3	76.3	77.5	78.2	78.2	79.3	79.7	80.0	81.1
GE 400	49.3	51.5	60.5	63.1	69.0	71.4	75.3	78.2	79.4	80.8	81.5	81.6	83.0	83.4	83.7	84.7
GE 300	49.5	51.8	60.8	63.9	70.1	73.0	78.1	81.3	82.5	83.9	85.0	85.2	86.7	87.1	87.7	88.9
GE 200	49.5	51.8	60.8	63.9	70.1	73.0	78.3	81.5	83.2	84.7	86.2	86.7	88.4	89.8	91.4	93.2
GE 100	49.5	51.8	60.8	63.9	70.1	73.0	78.6	82.2	83.9	85.4	86.9	87.5	89.2	90.9	93.5	99.3
GE 000	49.5	51.8	60.8	63.9	70.1	73.0	78.6	82.2	83.9	85.4	86.9	87.5	89.2	90.9	93.6	100.0

TOTAL NUMBER OF OBSERVATIONS 871

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	14.6	15.3	17.4	17.9	20.6	21.0	21.6	22.0	22.7	23.0	23.1	23.4	23.6	24.4	24.5	25.3
GE 20000	16.0	16.6	19.2	19.6	22.7	23.0	23.6	24.3	25.0	25.3	25.4	25.7	26.1	27.0	27.1	28.3
GE 18000	16.0	16.6	19.2	19.6	22.7	23.0	23.6	24.3	25.0	25.3	25.4	25.7	26.1	27.0	27.1	28.3
GE 16000	16.0	16.6	19.2	19.6	22.7	23.0	23.6	24.3	25.0	25.3	25.4	25.7	26.1	27.0	27.1	28.3
GE 14000	16.0	16.6	19.2	19.6	22.7	23.0	23.6	24.3	25.0	25.3	25.4	25.7	26.1	27.0	27.1	28.3
GE 12000	16.0	16.6	19.2	19.7	22.8	23.1	23.7	24.4	25.1	25.4	25.7	25.9	26.3	27.3	27.4	28.5
GE 10000	16.6	17.3	19.8	20.4	23.5	23.8	24.4	25.1	25.8	26.1	26.3	26.6	27.0	27.9	28.1	29.2
GE 9000	16.9	17.6	20.1	20.6	23.8	24.2	24.7	25.4	26.1	26.5	26.7	26.9	27.4	28.3	28.4	29.5
GE 8000	17.3	18.1	20.8	21.3	24.5	24.9	25.9	26.6	27.3	27.7	27.9	28.2	28.6	29.5	29.8	30.9
GE 7000	17.6	18.5	21.6	22.1	25.3	25.7	26.7	27.4	28.1	28.5	28.7	29.0	29.4	30.3	30.6	31.7
GE 6000	18.1	19.2	22.3	22.9	26.3	26.7	27.8	28.5	29.2	29.6	29.9	30.1	30.6	31.5	31.7	32.8
GE 5000	18.7	19.7	22.9	23.7	27.4	27.7	28.8	29.6	30.3	30.8	31.0	31.2	31.7	32.6	32.8	34.0
GE 4500	19.8	20.9	24.3	25.1	28.7	29.1	30.3	31.1	31.8	32.3	32.5	32.7	33.2	34.1	34.3	35.5
GE 4000	22.9	24.3	28.1	28.8	32.6	33.0	34.2	35.1	35.8	36.[illegible]	36.5	36.7	37.2	38.1	38.3	39.5
GE 3500	24.9	26.3	30.6	31.4	35.2	35.6	36.8	37.9	38.5	39.1	39.3	39.6	40.0	40.9	41.2	42.3
GE 3000	26.1	27.7	32.6	33.4	37.5	38.0	39.3	40.5	41.3	41.8	42.2	42.5	43.0	43.9	44.1	45.3
GE 2500	28.1	29.6	34.7	35.5	39.6	40.0	41.4	42.5	43.4	44.0	44.4	44.7	45.2	46.1	46.3	47.4
GE 2000	30.1	31.8	37.6	38.4	42.5	43.0	44.5	45.6	46.5	47.2	47.5	47.9	48.3	49.4	49.6	50.9
GE 1800	31.4	33.1	39.0	39.8	44.0	44.5	46.0	47.1	48.0	48.7	49.0	49.4	49.8	50.9	51.1	52.3
GE 1500	34.5	36.3	43.9	44.8	49.3	49.8	51.4	52.8	53.8	54.5	54.8	55.2	55.6	56.7	56.9	58.2
GE 1200	36.8	38.7	46.9	48.1	52.7	53.5	55.1	56.6	57.6	58.4	58.7	59.1	59.5	60.5	60.8	62.0
GE 1000	39.6	41.4	49.7	51.0	55.8	56.6	58.2	59.7	60.8	61.7	62.1	62.5	62.9	64.0	64.2	65.5
GE 900	40.4	42.2	51.0	52.5	57.7	58.5	60.2	61.8	62.9	63.9	64.3	64.7	65.1	66.1	66.4	67.6
GE 800	41.0	43.0	52.5	54.2	59.9	60.7	62.4	64.4	65.6	66.6	67.0	67.4	67.8	68.9	69.1	70.5
GE 700	41.7	43.7	53.6	55.5	61.6	62.4	64.2	66.7	67.8	69.0	69.4	69.8	70.2	71.3	71.5	72.9
GE 600	42.2	44.1	55.0	57.1	63.7	64.9	66.8	69.6	70.7	71.9	72.4	72.7	73.2	74.2	74.5	75.8
GE 500	42.6	44.6	56.2	58.5	66.0	67.3	69.3	72.1	73.3	74.8	75.4	75.9	76.4	77.4	77.7	79.0
GE 400	43.2	45.3	57.2	59.7	68.3	69.7	72.2	75.6	77.4	79.1	79.9	80.6	81.1	82.2	82.4	83.8
GE 300	43.2	45.3	57.4	60.1	68.6	70.2	73.4	77.4	79.5	81.5	82.7	83.4	83.9	85.1	85.3	86.9
GE 200	43.2	45.3	57.4	60.1	68.6	70.2	73.5	77.7	80.0	82.1	83.6	84.7	85.5	87.1	88.5	91.3
GE 100	43.2	45.3	57.4	60.1	68.6	70.2	73.5	77.7	80.2	82.3	84.0	85.5	86.5	88.8	91.1	99.5
GE 000	43.2	45.3	57.4	60.1	68.6	70.2	73.5	77.7	80.2	82.3	84.0	85.5	86.5	88.8	91.1	100.0

TOTAL NUMBER OF OBSERVATIONS 877

D - 2 - 93

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	13.1	13.6	17.6	18.1	19.9	20.2	20.6	21.2	21.4	21.5	21.8	22.0	22.3	22.5	22.7	23.7
GE 20000	13.9	14.5	19.0	19.5	21.8	22.5	22.9	23.6	23.7	23.8	24.2	24.4	24.7	25.0	25.3	26.9
GE 18000	13.9	14.5	19.0	19.5	21.8	22.5	22.9	23.6	23.7	23.8	24.2	24.4	24.7	25.0	25.3	26.9
GE 16000	13.9	14.5	19.0	19.5	21.8	22.5	22.9	23.6	23.7	23.8	24.2	24.4	24.7	25.0	25.3	26.9
GE 14000	13.9	14.5	19.0	19.5	21.8	22.5	22.9	23.6	23.7	23.8	24.2	24.4	24.7	25.0	25.3	26.9
GE 12000	14.5	15.1	19.7	20.2	22.6	23.3	24.0	24.6	24.7	24.9	25.2	25.4	25.8	26.0	26.3	27.9
GE 10000	15.4	16.0	20.9	21.5	23.8	24.5	25.2	25.9	26.0	26.2	26.6	26.8	27.1	27.3	27.7	29.3
GE 9000	15.6	16.3	21.1	21.7	24.2	24.9	25.5	26.4	26.6	26.8	27.1	27.3	27.7	27.9	28.2	29.8
GE 8000	16.0	16.8	21.8	22.6	25.2	26.0	26.8	27.8	28.0	28.2	28.7	28.9	29.4	29.6	29.9	31.5
GE 7000	16.8	17.6	22.8	23.6	26.2	27.1	27.9	29.0	29.3	29.5	29.9	30.2	30.6	30.8	31.2	32.8
GE 6000	17.1	17.9	23.5	24.3	27.0	27.9	28.7	29.8	30.1	30.3	30.7	31.0	31.4	31.6	32.0	33.6
GE 5000	18.1	18.9	24.6	25.4	28.4	29.4	30.2	31.3	31.5	31.8	32.2	32.4	32.9	33.1	33.4	35.0
GE 4500	19.2	20.0	26.0	27.0	29.9	31.0	31.8	32.9	33.1	33.3	33.8	34.0	34.5	34.7	35.0	36.6
GE 4000	20.2	21.1	27.6	28.8	31.8	33.1	33.9	35.0	35.3	35.5	35.9	36.2	36.6	36.8	37.2	38.8
GE 3500	21.4	22.3	29.7	31.0	34.4	35.8	36.6	37.9	38.2	38.8	39.2	39.4	39.9	40.1	40.5	42.0
GE 3000	24.7	25.6	33.6	35.0	38.5	40.0	41.0	42.3	42.7	43.3	43.7	44.0	44.4	44.6	45.0	46.6
GE 2500	26.6	27.5	35.6	37.4	41.1	42.6	43.6	44.9	45.3	46.1	46.6	46.8	47.2	47.5	47.8	49.4
GE 2000	29.7	30.6	39.3	41.1	44.9	46.4	47.5	49.0	49.5	50.4	51.0	51.2	51.6	51.9	52.2	53.8
GE 1800	31.1	32.1	41.1	42.9	46.7	48.2	49.3	50.8	51.3	52.2	52.8	53.0	53.4	53.7	54.0	55.6
GE 1500	34.6	35.7	45.8	47.6	51.5	53.2	54.4	56.3	56.9	58.1	58.8	59.0	59.4	59.7	60.0	61.6
GE 1200	36.6	37.7	48.6	50.5	54.6	56.5	57.7	59.7	60.5	61.6	62.3	62.6	63.1	63.3	63.6	65.2
GE 1000	37.7	38.9	50.6	53.0	57.7	60.0	61.4	63.4	64.4	65.5	66.2	66.6	67.0	67.2	67.6	69.3
GE 900	38.3	39.4	51.5	53.9	58.9	61.1	62.6	64.6	65.8	66.9	67.6	67.9	68.4	68.6	68.9	70.6
GE 800	38.9	40.1	52.7	55.1	60.3	62.7	64.2	66.4	67.6	68.8	69.5	69.8	70.3	70.5	70.8	72.5
GE 700	39.1	40.3	53.6	56.4	61.8	64.3	65.9	68.2	69.5	71.1	71.9	72.2	72.7	72.9	73.2	74.9
GE 600	39.3	40.6	54.2	57.2	63.4	66.0	67.6	70.1	71.5	73.1	74.0	74.5	74.9	75.1	75.5	77.2
GE 500	40.0	41.4	55.9	59.4	66.0	68.6	70.3	73.0	74.5	76.3	77.4	78.0	78.5	78.8	79.1	80.8
GE 400	40.3	41.7	56.6	60.3	67.2	70.2	71.9	74.6	77.1	79.3	80.8	81.5	82.0	82.6	82.9	85.1
GE 300	40.6	41.9	56.8	60.6	67.7	71.1	72.9	75.9	78.6	81.2	82.9	83.8	84.6	85.3	85.6	87.9
GE 200	40.6	41.9	56.9	60.7	67.8	71.2	73.0	76.3	79.2	81.8	84.2	85.4	86.8	87.9	89.5	94.0
GE 100	40.6	41.9	56.9	60.7	67.8	71.2	73.0	76.3	79.2	81.8	84.3	85.9	87.3	88.6	90.5	100.0
GE 000	40.6	41.9	56.9	60.7	67.8	71.2	73.0	76.3	79.2	81.8	84.3	85.9	87.3	88.6	90.5	100.0

TOTAL NUMBER OF OBSERVATIONS 885

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	16.4	17.2	20.8	21.4	22.3	22.7	22.9	23.6	23.6	23.6	23.6	24.1	24.1	24.2	24.3	24.5
GE 20000	19.0	19.8	23.8	24.6	25.9	26.6	26.8	27.5	27.5	27.5	27.6	28.0	28.0	28.1	28.2	28.5
GE 18000	19.0	19.8	23.8	24.6	25.9	26.6	26.8	27.5	27.5	27.5	27.6	28.0	28.0	28.1	28.2	28.5
GE 16000	19.3	20.1	24.2	25.0	26.2	26.9	27.1	27.8	27.8	27.8	27.9	28.4	28.4	28.5	28.6	28.8
GE 14000	19.4	20.2	24.3	25.1	26.3	27.0	27.2	27.9	27.9	27.9	28.0	28.5	28.5	28.6	28.7	28.9
GE 12000	19.5	20.3	24.4	25.2	26.6	27.2	27.5	28.1	28.1	28.1	28.2	28.7	28.7	28.8	28.9	29.2
GE 10000	20.5	21.2	25.3	26.3	28.2	29.0	29.4	30.2	30.3	30.4	30.5	31.0	31.0	31.1	31.2	31.4
GE 9000	20.8	21.6	26.1	27.2	29.2	30.1	30.4	31.2	31.3	31.4	31.5	32.0	32.0	32.1	32.2	32.4
GE 8000	22.8	23.7	28.4	29.8	31.8	32.7	33.2	34.0	34.1	34.2	34.4	34.8	34.8	34.9	35.0	35.3
GE 7000	23.3	24.2	28.8	30.3	32.3	33.2	33.8	34.6	34.7	34.8	34.9	35.4	35.4	35.5	35.6	35.8
GE 6000	23.7	24.6	29.4	30.8	32.9	33.8	34.4	35.1	35.3	35.4	35.5	35.9	35.9	36.0	36.2	36.4
GE 5000	24.2	25.1	29.9	31.4	33.4	34.4	34.9	35.7	35.8	35.9	36.0	36.5	36.5	36.6	36.7	36.9
GE 4500	25.0	25.9	30.8	32.3	34.4	35.4	35.9	36.7	36.8	36.9	37.1	37.5	37.5	37.6	37.7	38.0
GE 4000	26.6	27.5	32.5	34.2	36.4	37.5	38.1	39.0	39.1	39.2	39.3	39.8	39.8	39.9	40.0	40.2
GE 3500	29.8	30.8	36.5	38.4	40.7	41.8	42.5	43.4	43.5	43.6	43.7	44.2	44.2	44.3	44.4	44.6
GE 3000	33.4	34.7	41.1	43.2	45.8	46.9	47.8	48.7	48.8	48.9	49.0	49.5	49.5	49.6	49.7	49.9
GE 2500	37.5	38.8	46.2	48.4	51.0	52.1	53.1	54.0	54.1	54.2	54.4	54.8	54.8	54.9	55.0	55.3
GE 2000	41.0	42.5	50.6	52.9	55.6	56.7	57.7	58.6	58.8	58.9	59.0	59.4	59.4	59.5	59.7	59.9
GE 1800	42.1	43.7	52.5	54.8	57.5	58.6	59.7	60.6	60.8	60.9	61.0	61.5	61.5	61.6	61.7	61.9
GE 1500	45.2	47.0	56.5	58.8	61.5	62.9	64.1	65.3	65.6	65.8	65.9	66.3	66.3	66.4	66.6	66.8
GE 1200	47.6	49.7	59.3	61.8	64.7	66.4	67.6	68.8	69.2	69.3	69.4	69.8	69.8	69.9	70.1	70.3
GE 1000	49.6	51.8	61.9	64.4	68.0	69.9	71.2	72.8	73.1	73.2	73.4	73.9	73.9	74.0	74.1	74.5
GE 900	49.9	52.1	62.7	65.5	69.4	71.4	72.8	74.4	74.7	74.8	75.1	75.6	75.6	75.7	75.8	76.2
GE 800	50.7	53.0	64.3	67.3	71.3	73.4	74.8	76.4	76.8	76.9	77.3	77.7	77.7	77.9	78.0	78.3
GE 700	51.4	53.7	65.5	68.6	72.9	75.6	76.9	78.5	79.3	79.7	80.0	80.5	80.5	80.6	80.7	81.0
GE 600	51.5	54.0	66.3	69.4	73.7	76.4	78.3	79.9	80.7	81.0	81.4	81.8	81.8	81.9	82.0	82.4
GE 500	52.4	54.9	67.3	70.6	75.5	78.4	80.6	82.5	83.3	84.1	84.4	84.9	84.9	85.0	85.1	85.4
GE 400	52.5	55.0	67.7	71.1	76.4	80.1	82.7	85.3	86.9	88.5	88.8	89.5	89.5	89.6	89.7	90.3
GE 300	52.5	55.0	67.7	71.1	76.4	80.2	82.8	85.6	87.6	89.6	90.7	91.5	92.2	92.4	92.5	93.2
GE 200	52.5	55.0	67.7	71.1	76.4	80.2	82.8	85.8	87.8	90.1	91.8	92.8	93.8	94.5	95.0	97.1
GE 100	52.5	55.0	67.7	71.1	76.4	80.2	82.8	85.8	87.8	90.1	91.8	92.9	94.0	94.9	95.5	100.0
GE 000	52.5	55.0	67.7	71.1	76.4	80.2	82.8	85.8	87.8	90.1	91.8	92.9	94.0	94.9	95.5	100.0

TOTAL NUMBER OF OBSERVATIONS 885

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	21.4	22.6	25.6	26.4	28.8	28.9	29.0	29.0	29.0	29.0	29.2	29.2	29.2	29.2	29.3	29.6
GE 20000	23.7	25.2	28.8	29.6	32.4	32.5	32.7	32.7	32.7	32.7	32.8	32.8	32.8	32.8	32.9	33.2
GE 18000	23.8	25.3	28.9	29.7	32.5	32.7	32.8	32.8	32.8	32.8	32.9	32.9	32.9	32.9	33.0	33.3
GE 16000	23.8	25.3	28.9	29.7	32.5	32.7	32.8	32.8	32.8	32.8	32.9	32.9	32.9	32.9	33.0	33.3
GE 14000	24.0	25.4	29.0	29.8	32.7	32.8	32.9	32.9	32.9	32.9	33.0	33.0	33.0	33.0	33.1	33.4
GE 12000	24.1	25.5	29.2	29.9	33.1	33.2	33.3	33.3	33.3	33.3	33.4	33.4	33.4	33.4	33.6	33.9
GE 10000	25.8	27.2	31.2	32.0	35.6	35.9	36.2	36.2	36.2	36.2	36.3	36.3	36.3	36.3	36.4	36.7
GE 9000	26.2	27.7	31.6	32.4	36.0	36.4	36.9	36.9	36.9	36.9	37.1	37.1	37.1	37.1	37.2	37.5
GE 8000	27.5	29.0	33.3	34.2	38.1	38.5	39.1	39.1	39.1	39.1	39.2	39.2	39.2	39.2	39.3	39.7
GE 7000	27.9	29.5	33.8	34.7	39.0	39.4	40.0	40.0	40.0	40.0	40.1	40.1	40.1	40.1	40.2	40.6
GE 6000	28.5	30.1	34.4	35.4	39.7	40.1	40.7	40.7	40.7	40.7	40.8	40.8	40.8	40.8	40.9	41.2
GE 5000	29.4	31.0	35.6	36.8	41.1	41.6	42.1	42.1	42.1	42.1	42.3	42.3	42.3	42.3	42.4	42.7
GE 4500	29.8	31.4	36.3	37.5	41.9	42.4	42.9	42.9	42.9	42.9	43.1	43.1	43.1	43.1	43.2	43.5
GE 4000	32.2	34.1	39.2	40.5	45.0	45.5	46.1	46.1	46.1	46.1	46.2	46.2	46.2	46.2	46.3	46.7
GE 3500	35.6	37.9	44.0	45.2	49.8	50.5	51.1	51.1	51.1	51.1	51.2	51.2	51.2	51.2	51.3	51.6
GE 3000	40.6	42.9	49.6	50.8	55.8	56.5	57.1	57.1	57.1	57.1	57.2	57.2	57.2	57.2	57.3	57.6
GE 2500	43.4	45.8	52.7	53.9	59.1	59.9	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.6	60.7	61.0
GE 2000	47.8	50.2	58.1	59.4	64.9	65.6	66.6	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.8	67.1
GE 1800	48.6	51.3	59.5	60.9	66.3	67.1	68.0	68.0	68.0	68.0	68.1	68.1	68.1	68.1	68.2	68.6
GE 1500	51.3	54.5	63.8	65.2	70.7	71.6	72.7	72.9	73.0	73.1	73.2	73.2	73.2	73.2	73.3	73.7
GE 1200	52.2	55.5	65.5	67.7	73.4	74.5	75.6	75.9	76.0	76.2	76.3	76.3	76.3	76.3	76.4	76.7
GE 1000	53.3	56.8	67.3	69.5	75.8	76.9	78.1	78.4	78.5	78.6	78.8	78.8	78.8	78.9	78.9	79.2
GE 900	53.7	57.2	68.4	70.7	77.2	78.5	79.7	80.0	80.1	80.2	80.3	80.3	80.3	80.3	80.5	80.8
GE 800	53.8	57.3	68.7	71.1	77.6	79.1	80.2	80.6	80.7	80.8	80.9	80.9	80.9	80.9	81.0	81.4
GE 700	54.8	58.4	70.6	73.1	80.0	81.6	82.9	83.4	83.5	83.8	84.0	84.0	84.0	84.0	84.1	84.4
GE 600	54.9	58.5	71.0	73.4	80.6	82.6	84.0	84.5	84.6	85.1	85.2	85.3	85.3	85.3	85.4	85.8
GE 500	55.4	59.0	71.9	74.5	82.3	84.4	85.8	86.7	86.9	87.7	[illegible]	87.9	88.0	88.0	88.1	88.5
GE 400	55.5	59.1	72.2	74.9	83.4	85.6	87.6	88.7	89.8	90.7	91.1	91.3	91.5	91.8	91.9	92.2
GE 300	55.5	59.1	72.3	75.1	83.7	86.0	88.0	89.3	90.7	91.9	92.5	93.0	93.2	93.4	93.6	93.9
GE 200	55.5	59.1	72.3	75.1	83.7	86.0	88.0	89.3	90.8	92.5	93.3	93.9	94.5	95.1	95.9	97.2
GE 100	55.5	59.1	72.3	75.1	83.7	86.0	88.0	89.4	91.0	92.7	93.4	94.2	94.9	95.7	97.1	100.0
GE 000	55.5	59.1	72.3	75.1	83.7	86.0	88.0	89.4	91.0	92.7	93.4	94.2	94.9	95.7	97.1	100.0

TOTAL NUMBER OF OBSERVATIONS 885

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	25.0	26.6	28.2	29.7	30.8	31.2	31.6	31.8	31.9	31.9	32.4	32.7	32.7	32.7	32.8	32.8
GE 20000	26.5	28.1	30.2	31.7	33.0	33.4	33.8	34.0	34.3	34.3	34.8	35.1	35.1	35.1	35.2	35.2
GE 18000	26.6	28.2	30.3	31.8	33.1	33.5	33.9	34.1	34.4	34.4	34.9	35.2	35.2	35.2	35.4	35.4
GE 16000	26.6	28.2	30.3	31.8	33.1	33.5	33.9	34.1	34.4	34.4	34.9	35.2	35.2	35.2	35.4	35.4
GE 14000	26.6	28.2	30.3	31.8	33.1	33.5	33.9	34.1	34.4	34.4	34.9	35.2	35.2	35.2	35.4	35.4
GE 12000	26.8	28.4	30.4	31.9	33.3	33.8	34.1	34.3	34.7	34.7	35.1	35.5	35.5	35.5	35.6	35.6
GE 10000	27.6	29.4	31.5	33.2	34.8	35.4	35.9	36.3	36.6	36.6	37.1	37.4	37.4	37.4	37.5	37.5
GE 9000	28.0	29.9	31.9	33.6	35.2	35.8	36.4	36.7	37.1	37.1	37.5	37.9	37.9	37.9	38.0	38.0
GE 8000	31.2	33.2	35.6	37.4	39.6	40.4	41.0	41.3	41.7	41.7	42.1	42.5	42.5	42.5	42.6	42.6
GE 7000	31.7	33.6	36.1	37.9	40.3	41.1	41.7	42.0	42.4	42.4	42.8	43.2	43.2	43.2	43.3	43.3
GE 6000	32.0	34.0	36.4	38.2	40.6	41.4	42.0	42.4	42.7	42.7	43.2	43.5	43.5	43.5	43.6	43.6
GE 5000	32.8	34.8	37.3	39.3	41.7	42.5	43.1	43.4	43.7	43.7	44.2	44.5	44.5	44.5	44.7	44.7
GE 4500	33.6	35.7	38.8	40.8	43.2	44.0	44.9	45.2	45.6	45.6	46.0	46.4	46.4	46.4	46.5	46.5
GE 4000	37.1	39.2	42.4	44.3	46.8	47.6	48.6	48.9	49.3	49.3	49.7	50.1	50.1	50.1	50.2	50.2
GE 3500	41.1	43.2	46.4	48.3	51.2	52.2	53.2	53.5	53.8	53.8	54.3	54.6	54.6	54.6	54.8	54.8
GE 3000	44.8	47.0	50.5	52.5	55.5	56.5	57.5	57.9	58.2	58.2	58.7	59.0	59.0	59.0	59.1	59.1
GE 2500	46.3	48.5	52.2	54.3	57.3	58.3	59.4	59.8	60.2	60.2	60.6	61.0	61.0	61.0	61.1	61.1
GE 2000	51.3	53.5	57.6	59.7	62.8	63.8	64.9	65.3	65.7	65.7	66.1	66.5	66.5	66.5	66.6	66.6
GE 1800	51.9	54.4	58.6	60.6	63.7	64.8	65.8	66.2	66.6	66.6	67.0	67.4	67.4	67.4	67.5	67.5
GE 1500	56.0	58.7	63.7	65.9	69.1	70.1	71.2	71.6	72.1	72.4	72.9	73.2	73.2	73.2	73.4	73.4
GE 1200	57.3	59.9	65.9	68.3	71.6	72.7	73.8	74.3	74.7	75.1	75.7	76.1	76.1	76.1	76.2	76.2
GE 1000	58.2	60.8	67.4	69.8	73.7	75.0	76.1	76.6	77.0	77.4	78.1	78.5	78.5	78.5	78.6	78.6
GE 900	59.1	61.8	69.1	71.6	75.5	76.8	78.0	78.4	78.9	79.2	79.9	80.4	80.4	80.4	80.5	80.5
GE 800	59.1	61.8	69.2	72.0	75.9	77.3	78.4	78.9	79.6	79.9	80.6	81.1	81.1	81.1	81.2	81.2
GE 700	60.2	62.9	71.3	74.3	78.5	79.9	81.1	81.5	82.2	82.8	83.5	83.9	83.9	83.9	84.0	84.0
GE 600	60.5	63.3	72.4	75.4	80.0	81.7	83.1	83.7	84.4	85.1	85.8	86.2	86.2	86.2	86.3	86.3
GE 500	61.5	64.3	74.4	77.5	82.5	84.7	86.1	86.8	87.5	88.5	89.2	89.9	90.2	90.2	90.4	90.4
GE 400	61.7	64.4	74.9	78.0	83.4	85.5	87.0	87.9	88.7	89.8	90.8	91.5	92.0	92.2	92.3	92.3
GE 300	61.7	64.4	74.9	78.1	83.6	85.9	87.5	88.9	89.9	91.0	92.4	93.1	93.6	93.8	93.9	93.9
GE 200	61.7	64.4	74.9	78.2	83.7	86.0	87.8	89.3	90.4	91.7	93.2	94.1	95.4	96.0	96.7	97.6
GE 100	61.7	64.4	74.9	78.2	83.8	86.1	87.9	89.4	90.6	92.0	93.5	94.5	95.9	96.9	97.6	100.0
GE 000	61.7	64.4	74.9	78.2	83.8	86.1	87.9	89.4	90.6	92.0	93.5	94.5	95.9	96.9	97.6	100.0

TOTAL NUMBER OF OBSERVATIONS 871

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	24.3	25.5	28.0	28.6	29.6	29.9	30.6	30.7	30.9	31.1	31.3	31.4	31.4	31.5	32.2	32.6
GE 20000	25.8	27.0	29.8	30.3	31.5	31.7	32.4	32.5	32.9	33.1	33.2	33.3	33.3	33.4	34.1	34.6
GE 18000	25.8	27.0	29.8	30.3	31.5	31.7	32.4	32.5	32.9	33.1	33.2	33.3	33.3	33.4	34.1	34.6
GE 16000	25.8	27.0	29.8	30.3	31.5	31.7	32.4	32.5	32.9	33.1	33.2	33.3	33.3	33.4	34.1	34.6
GE 14000	25.8	27.0	29.8	30.3	31.5	31.7	32.4	32.5	32.9	33.1	33.2	33.3	33.3	33.4	34.1	34.6
GE 12000	26.1	27.2	30.0	30.6	31.7	31.9	32.6	32.8	33.1	33.3	33.4	33.6	33.6	33.7	34.4	34.8
GE 10000	26.9	28.0	31.0	31.8	33.6	33.8	34.5	34.7	35.1	35.4	35.5	35.6	35.6	35.8	36.4	36.9
GE 9000	27.3	28.5	31.5	32.3	34.0	34.3	34.9	35.2	35.5	35.9	36.0	36.1	36.1	36.2	36.9	37.4
GE 8000	30.0	31.4	34.5	35.3	37.4	37.6	38.3	38.5	38.9	39.2	39.3	39.4	39.4	39.6	40.3	40.7
GE 7000	30.4	31.8	34.9	35.8	37.8	38.1	38.8	39.0	39.3	39.7	39.8	39.9	39.9	40.0	40.7	41.2
GE 6000	30.8	32.2	35.3	36.1	38.2	38.4	39.1	39.3	39.7	40.0	40.1	40.3	40.3	40.4	41.1	41.5
GE 5000	32.4	33.8	36.9	37.7	39.8	40.0	40.7	40.9	41.3	41.6	41.8	41.9	41.9	42.0	42.7	43.1
GE 4500	33.4	34.8	38.3	39.1	41.2	41.4	42.1	42.3	42.7	43.4	43.5	43.6	43.6	43.7	44.4	44.9
GE 4000	36.4	37.8	41.3	42.1	44.2	44.4	45.1	45.3	45.7	46.4	46.5	46.6	46.6	46.7	47.4	47.9
GE 3500	39.7	41.3	44.8	45.8	47.9	48.1	48.8	49.0	49.4	50.1	50.2	50.3	50.3	50.4	51.1	51.6
GE 3000	43.0	45.0	48.6	49.6	51.7	51.9	52.6	52.9	53.3	54.0	54.1	54.2	54.2	54.3	55.0	55.5
GE 2500	43.6	45.6	49.5	50.5	52.6	52.8	53.5	53.9	54.2	54.9	55.0	55.1	55.1	55.2	55.9	56.4
GE 2000	47.8	49.7	54.2	55.2	57.7	57.9	58.6	59.1	59.4	60.1	60.2	60.3	60.3	60.4	61.1	61.6
GE 1800	49.3	51.2	55.7	56.7	59.2	59.4	60.1	60.6	60.9	61.6	61.7	61.8	61.8	61.9	62.6	63.1
GE 1500	52.7	54.7	60.0	61.2	64.1	64.4	65.1	65.6	66.0	66.8	66.9	67.0	67.0	67.1	67.8	68.3
GE 1200	54.6	56.5	62.5	64.0	67.4	67.6	68.3	68.9	69.2	70.0	70.1	70.2	70.2	70.4	71.0	71.5
GE 1000	55.8	57.8	64.4	66.0	69.7	70.0	70.7	71.3	71.9	72.7	72.8	72.9	72.9	73.0	73.7	74.2
GE 900	57.1	59.2	66.6	68.2	72.1	72.4	73.5	74.0	74.6	75.4	75.8	76.0	76.0	76.1	76.8	77.3
GE 800	58.0	60.1	68.2	70.0	74.2	74.5	75.7	76.2	76.9	77.7	78.1	78.3	78.3	78.4	79.1	79.6
GE 700	59.3	61.4	69.6	71.6	76.2	76.6	77.7	78.4	79.1	80.2	80.6	80.9	80.9	81.0	81.7	82.1
GE 600	60.6	62.6	71.2	73.4	78.1	79.1	80.4	81.1	81.8	82.9	83.4	83.6	83.6	83.7	84.4	84.9
GE 500	61.1	63.2	72.4	75.0	80.0	81.1	82.4	83.4	84.3	85.6	86.0	86.3	86.3	86.4	87.1	87.5
GE 400	61.6	63.7	73.1	76.1	81.7	82.8	84.1	85.2	86.2	87.4	87.9	88.5	88.5	88.8	89.5	90.1
GE 300	61.7	63.8	73.2	76.2	81.9	83.0	84.8	86.4	87.3	88.7	89.5	90.1	90.3	90.8	91.6	92.2
GE 200	61.7	63.8	73.2	76.2	81.9	83.0	84.8	86.9	87.8	89.4	90.3	91.1	91.9	92.8	94.5	96.2
GE 100	61.7	63.8	73.2	76.2	81.9	83.0	84.9	87.2	88.4	90.0	90.9	91.7	92.5	93.5	96.0	99.8
GE 000	61.7	63.8	73.2	76.2	81.9	83.0	84.9	87.2	88.4	90.0	90.9	91.7	92.5	93.7	96.2	100.0

TOTAL NUMBER OF OBSERVATIONS 867

D - 2 - 98

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	19.1	20.2	22.9	23.6	25.3	25.6	26.0	26.5	26.7	27.0	27.2	27.4	27.5	27.8	28.0	28.6
GE 20000	20.7	21.8	24.8	25.6	27.6	28.0	28.4	28.9	29.3	29.5	29.7	29.9	30.2	30.4	30.7	31.4
GE 18000	20.7	21.8	24.9	25.7	27.6	28.0	28.5	29.0	29.3	29.5	29.8	29.9	30.2	30.5	30.8	31.4
GE 16000	20.8	21.8	24.9	25.7	27.6	28.1	28.5	29.0	29.3	29.5	29.8	30.0	30.2	30.5	30.8	31.5
GE 14000	20.8	21.9	24.9	25.7	27.7	28.1	28.5	29.0	29.4	29.6	29.8	30.0	30.3	30.5	30.8	31.5
GE 12000	20.9	22.0	25.1	26.0	28.0	28.4	28.9	29.4	29.7	29.9	30.2	30.4	30.7	30.9	31.2	31.9
GE 10000	21.8	22.9	26.2	27.2	29.5	30.0	30.5	31.0	31.4	31.7	31.9	32.1	32.4	32.6	32.9	33.6
GE 9000	22.3	23.4	26.7	27.8	30.1	30.6	31.1	31.7	32.0	32.3	32.6	32.8	33.0	33.3	33.6	34.3
GE 8000	23.8	25.0	28.6	29.7	32.1	32.7	33.4	34.0	34.4	34.6	35.0	35.1	35.4	35.7	36.0	36.6
GE 7000	24.2	25.4	29.0	30.2	32.7	33.3	34.0	34.6	35.0	35.2	35.6	35.7	36.0	36.3	36.6	37.2
GE 6000	24.6	25.8	29.5	30.7	33.3	33.9	34.6	35.2	35.6	35.8	36.2	36.3	36.6	36.9	37.2	37.8
GE 5000	25.3	26.6	30.4	31.7	34.3	35.0	35.7	36.3	36.6	36.9	37.2	37.4	37.7	38.0	38.3	38.9
GE 4500	26.4	27.7	31.7	33.0	35.7	36.3	37.1	37.7	38.1	38.4	38.7	38.9	39.2	39.5	39.8	40.4
GE 4000	29.2	30.6	34.8	36.1	38.9	39.6	40.4	41.0	41.4	41.7	42.1	42.3	42.5	42.8	43.1	43.8
GE 3500	31.8	33.4	38.0	39.4	42.4	43.2	44.0	44.6	45.1	45.5	45.8	46.0	46.3	46.6	46.9	47.5
GE 3000	34.7	36.4	41.5	42.9	46.1	46.9	47.8	48.5	48.9	49.4	49.7	49.9	50.2	50.4	50.7	51.4
GE 2500	36.6	38.3	43.7	45.3	48.5	49.3	50.2	50.9	51.4	51.9	52.2	52.4	52.7	53.0	53.3	53.9
GE 2000	40.1	41.9	48.1	49.7	53.0	53.8	54.8	55.6	56.0	56.5	56.9	57.1	57.4	57.7	58.0	58.7
GE 1800	41.4	43.3	49.6	51.2	54.6	55.4	56.4	57.2	57.7	58.2	58.6	58.8	59.0	59.3	59.6	60.3
GE 1500	44.4	46.4	53.7	55.4	59.0	59.9	61.0	62.0	62.6	63.2	63.5	63.7	64.0	64.3	64.6	65.3
GE 1200	46.7	48.8	56.7	58.7	62.5	63.5	64.7	65.7	66.4	67.0	67.4	67.6	67.9	68.2	68.5	69.2
GE 1000	48.7	50.9	59.2	61.3	65.6	66.8	68.0	69.2	69.9	70.5	71.0	71.2	71.5	71.8	72.1	72.8
GE 900	49.6	51.7	60.6	62.8	67.3	68.5	69.9	71.1	71.9	72.5	73.0	73.2	73.5	73.8	74.1	74.8
GE 800	50.2	52.4	61.8	64.1	68.7	70.0	71.4	72.7	73.6	74.2	74.7	75.0	75.3	75.6	75.9	76.6
GE 700	51.1	53.3	63.2	65.6	70.6	72.0	73.5	75.0	76.0	76.8	77.3	77.6	77.9	78.2	78.5	79.2
GE 600	51.6	53.9	64.3	66.8	72.2	74.0	75.8	77.4	78.3	79.2	79.8	80.0	80.3	80.6	80.9	81.7
GE 500	52.3	54.7	65.7	68.5	74.3	76.3	78.1	80.0	81.0	82.1	82.7	83.1	83.4	83.7	84.0	84.8
GE 400	52.7	55.1	66.4	69.4	75.8	77.9	80.1	82.3	83.8	85.1	85.9	86.4	86.8	87.2	87.5	88.3
GE 300	52.8	55.1	66.6	69.6	76.2	78.5	81.0	83.5	85.2	86.8	87.9	88.5	89.1	89.6	90.0	90.9
GE 200	52.8	55.1	66.6	69.7	76.2	78.6	81.2	83.8	85.7	87.5	88.9	89.7	90.7	91.7	93.0	95.1
GE 100	52.8	55.1	66.6	69.7	76.2	78.6	81.2	84.0	85.9	87.7	89.2	90.2	91.3	92.6	94.4	99.8
GE 000	52.8	55.1	66.6	69.7	76.2	78.6	81.2	84.0	85.9	87.7	89.2	90.2	91.3	92.7	94.5	100.0

TOTAL NUMBER OF OBSERVATIONS 7011

D - 2 - 99

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 00-02

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	17.6	17.8	19.9	20.0	21.0	21.4	21.6	21.8	21.8	22.0	22.2	22.4	22.5	22.5	22.5	22.5
GE 20000	18.5	18.8	20.8	20.9	22.3	22.8	23.1	23.4	23.4	23.6	23.8	24.0	24.1	24.1	24.1	24.1
GE 18000	18.5	18.8	20.8	20.9	22.3	22.8	23.1	23.4	23.4	23.6	23.8	24.0	24.1	24.1	24.1	24.1
GE 16000	18.5	18.8	20.8	20.9	22.3	22.8	23.1	23.4	23.4	23.6	23.8	24.0	24.1	24.1	24.1	24.1
GE 14000	18.5	18.8	20.8	20.9	22.3	22.8	23.1	23.4	23.4	23.6	23.8	24.0	24.1	24.1	24.1	24.1
GE 12000	18.5	18.8	20.9	20.9	22.3	22.8	23.1	23.4	23.4	23.6	23.8	24.0	24.1	24.1	24.1	24.1
GE 10000	18.9	19.1	21.3	21.4	22.7	23.3	23.5	23.9	23.9	24.1	24.2	24.4	24.5	24.5	24.5	24.5
GE 9000	19.0	19.2	21.5	21.6	23.0	23.5	23.8	24.1	24.1	24.3	24.4	24.7	24.8	24.8	24.8	24.8
GE 8000	20.5	20.7	23.2	23.3	24.8	25.3	25.6	25.9	25.9	26.1	26.3	26.5	26.6	26.6	26.6	26.6
GE 7000	20.5	20.7	23.3	23.6	25.2	25.8	26.0	26.4	26.4	26.6	26.7	26.9	27.0	27.0	27.0	27.0
GE 6000	20.5	20.7	23.3	23.6	25.2	25.8	26.0	26.4	26.4	26.6	26.7	26.9	27.0	27.0	27.0	27.0
GE 5000	20.9	21.1	24.0	24.4	26.0	26.6	26.8	27.2	27.2	27.4	27.5	27.7	27.8	27.8	27.8	27.8
GE 4500	22.3	22.5	25.3	25.8	27.4	28.0	28.2	28.5	28.5	28.8	28.9	29.1	29.2	29.2	29.2	29.2
GE 4000	23.5	23.8	26.7	27.2	28.8	29.4	29.7	30.0	30.0	30.2	30.3	30.6	30.7	30.7	30.7	30.7
GE 3500	25.1	25.3	28.9	29.3	30.9	31.6	31.8	32.2	32.2	32.4	32.5	32.7	32.8	32.8	32.8	32.8
GE 3000	28.6	28.9	32.6	33.2	34.8	35.7	36.0	36.4	36.4	36.6	36.7	36.9	37.0	37.0	37.0	37.0
GE 2500	30.1	30.3	34.3	35.0	36.6	37.5	37.8	38.2	38.2	38.4	38.5	38.8	38.9	38.9	38.9	38.9
GE 2000	33.9	34.1	38.5	39.2	41.0	41.9	42.3	42.6	42.6	43.0	43.1	43.3	43.5	43.5	43.5	43.5
GE 1800	36.5	36.7	41.3	42.0	43.9	44.9	45.2	45.6	45.6	45.9	46.0	46.3	46.5	46.5	46.5	46.5
GE 1500	40.9	41.3	46.1	47.3	49.3	50.3	50.7	51.0	51.0	51.7	51.8	52.0	52.3	52.3	52.3	52.3
GE 1200	43.8	44.5	49.8	51.0	53.4	54.4	54.8	55.1	55.1	55.8	55.9	56.1	56.4	56.4	56.4	56.4
GE 1000	46.4	47.2	53.4	54.8	57.2	58.3	58.6	59.0	59.2	59.9	60.0	60.2	60.5	60.5	60.5	60.5
GE 900	48.2	49.0	55.6	57.4	59.9	61.1	61.5	61.8	62.0	62.7	62.8	63.1	63.3	63.3	63.3	63.3
GE 800	48.8	49.5	56.7	58.6	61.5	62.7	63.1	63.4	63.6	64.3	64.4	64.7	64.9	64.9	64.9	64.9
GE 700	50.0	50.8	58.4	60.5	63.4	65.1	65.5	65.8	66.0	66.7	66.8	67.0	67.3	67.3	67.3	67.3
GE 600	50.8	51.7	60.1	62.4	66.4	68.4	69.2	69.5	69.8	70.5	70.7	70.9	71.1	71.1	71.1	71.1
GE 500	51.7	52.6	61.5	64.1	69.5	71.8	73.4	73.9	74.5	75.3	75.7	75.9	76.1	76.1	76.1	76.1
GE 400	52.5	53.4	63.2	65.9	72.0	75.2	76.9	77.4	78.2	79.3	79.9	80.1	80.5	80.5	80.5	80.5
GE 300	53.0	53.9	63.6	66.4	73.1	76.4	78.6	79.4	80.3	81.6	82.4	82.8	83.2	83.4	83.6	83.6
GE 200	53.0	53.9	63.8	66.5	73.3	76.6	79.3	80.2	81.4	83.2	84.8	86.0	86.9	89.0	89.5	90.3
GE 100	53.0	53.9	63.8	66.5	73.3	76.6	79.3	80.2	81.5	83.4	85.1	86.5	88.0	90.2	92.8	99.0
GE 000	53.0	53.9	63.8	66.5	73.3	76.6	79.3	80.2	81.5	83.4	85.1	86.6	88.1	90.5	93.1	100.0

TOTAL NUMBER OF OBSERVATIONS 880

D - 2 - 100

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 03-05

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	13.0	13.5	15.7	16.0	16.7	17.5	17.7	18.2	18.2	18.4	18.4	18.5	18.5	18.6	18.6	18.6
GE 20000	13.8	14.6	16.9	17.4	18.2	19.0	19.2	19.6	19.8	20.0	20.0	20.1	20.1	20.2	20.2	20.2
GE 18000	13.8	14.6	16.9	17.4	18.2	19.0	19.2	19.6	19.8	20.0	20.0	20.1	20.1	20.2	20.2	20.2
GE 16000	13.8	14.6	16.9	17.4	18.2	19.0	19.2	19.6	19.8	20.0	20.0	20.1	20.1	20.2	20.2	20.2
GE 14000	13.8	14.6	16.9	17.4	18.2	19.0	19.2	19.6	19.8	20.0	20.0	20.1	20.1	20.2	20.2	20.2
GE 12000	13.8	14.6	17.2	17.6	18.4	19.2	19.4	19.9	20.0	20.2	20.2	20.3	20.3	20.4	20.4	20.4
GE 10000	13.9	14.7	17.5	18.1	18.8	19.6	19.9	20.4	20.5	20.8	20.8	20.9	20.9	21.0	21.0	21.0
GE 9000	14.1	14.9	17.7	18.3	19.1	19.9	20.1	20.7	20.8	21.0	21.0	21.1	21.1	21.2	21.2	21.2
GE 8000	15.2	16.0	18.8	19.4	20.2	21.0	21.2	21.8	21.9	22.1	22.1	22.2	22.2	22.3	22.3	22.3
GE 7000	15.6	16.4	19.8	20.3	21.1	21.9	22.1	22.7	22.8	23.0	23.0	23.1	23.1	23.3	23.3	23.3
GE 6000	15.6	16.4	19.8	20.3	21.1	21.9	22.1	22.7	22.8	23.0	23.0	23.1	23.1	23.3	23.3	23.3
GE 5000	16.1	16.9	20.3	20.9	21.7	22.5	22.7	23.3	23.4	23.6	23.6	23.7	23.7	23.8	23.8	23.8
GE 4500	17.0	17.8	21.2	21.8	22.6	23.4	23.6	24.2	24.3	24.5	24.5	24.6	24.6	24.7	24.7	24.7
GE 4000	19.2	20.1	23.6	24.5	25.6	26.4	26.6	27.2	27.3	27.5	27.5	27.7	27.7	27.8	27.8	27.8
GE 3500	21.3	22.2	25.7	26.7	28.0	28.8	29.0	29.6	29.7	29.9	29.9	30.0	30.0	30.1	30.1	30.1
GE 3000	25.1	26.3	30.1	31.3	32.8	33.6	34.0	34.5	34.7	34.9	34.9	35.0	35.0	35.1	35.1	35.1
GE 2500	26.7	28.1	32.2	33.3	35.0	35.8	36.1	36.7	36.8	37.0	37.0	37.1	37.1	37.2	37.2	37.2
GE 2000	30.2	31.7	35.9	37.4	39.1	39.8	40.2	40.7	40.9	41.2	41.3	41.4	41.4	41.5	41.5	41.5
GE 1800	32.1	33.5	37.7	39.2	41.1	41.9	42.3	42.9	43.0	43.3	43.5	43.6	43.7	43.8	43.8	43.8
GE 1500	35.9	37.5	42.1	43.6	45.5	46.3	46.7	47.3	47.4	48.0	48.1	48.2	48.3	48.4	48.4	48.4
GE 1200	37.9	39.6	44.5	45.9	48.3	49.1	49.5	50.2	50.3	50.9	51.0	51.1	51.2	51.4	51.4	51.4
GE 1000	40.7	42.7	48.1	49.7	52.3	53.0	53.7	54.4	54.5	55.1	55.2	55.3	55.4	55.5	55.5	55.5
GE 900	43.7	45.8	51.6	53.3	56.1	57.0	57.7	58.4	58.5	59.0	59.1	59.3	59.4	59.5	59.5	59.5
GE 800	44.7	47.0	52.8	55.2	58.4	59.4	60.0	60.8	60.9	61.5	61.9	62.0	62.1	62.2	62.2	62.2
GE 700	46.0	48.3	54.6	57.2	60.6	61.9	63.0	63.8	63.9	64.7	65.0	65.1	65.2	65.3	65.3	65.3
GE 600	46.6	48.9	55.5	58.2	62.3	63.8	65.2	66.0	66.3	67.2	67.5	67.6	67.7	67.8	67.8	67.8
GE 500	47.5	49.8	57.3	60.8	66.0	67.6	69.6	71.0	71.3	72.2	72.6	72.7	72.9	73.0	73.0	73.0
GE 400	48.2	50.5	58.5	62.2	68.2	70.4	72.7	74.5	74.8	76.2	76.7	77.0	77.3	77.4	77.4	77.4
GE 300	48.2	50.5	58.9	63.0	69.4	72.1	74.6	76.9	77.4	79.2	80.2	80.9	81.3	81.4	81.6	82.1
GE 200	48.2	50.5	58.9	63.0	69.9	72.6	75.2	78.2	79.0	81.5	83.1	85.0	86.2	87.9	88.5	89.6
GE 100	48.2	50.5	58.9	63.0	69.9	72.6	75.3	78.3	79.2	81.7	83.4	86.0	87.7	90.7	92.6	98.9
GE 000	48.2	50.5	58.9	63.0	69.9	72.6	75.3	78.6	79.5	81.9	83.6	86.2	87.9	91.1	92.9	100.0

TOTAL NUMBER OF OBSERVATIONS 886

D - 2 - 101

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 06-08

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	12.3	12.7	13.6	13.8	15.0	15.8	16.0	16.5	16.5	16.6	16.7	16.8	16.8	17.0	17.0	17.2
GE 20000	13.3	13.7	14.8	15.2	16.5	17.4	17.6	18.0	18.0	18.2	18.3	18.4	18.4	18.6	18.6	18.9
GE 18000	13.3	13.7	14.8	15.2	16.5	17.4	17.6	18.0	18.0	18.2	18.3	18.4	18.4	18.6	18.6	18.9
GE 16000	13.3	13.7	14.8	15.2	16.5	17.4	17.6	18.0	18.0	18.2	18.3	18.4	18.4	18.6	18.6	18.9
GE 14000	13.3	13.7	14.8	15.2	16.5	17.4	17.6	18.0	18.0	18.2	18.3	18.4	18.4	18.6	18.6	18.9
GE 12000	13.6	13.9	15.0	15.5	16.7	17.6	17.8	18.3	18.3	18.4	18.5	18.6	18.6	18.8	18.8	19.2
GE 10000	13.8	14.1	15.2	15.7	16.9	17.8	18.0	18.5	18.5	18.6	18.7	18.8	18.8	19.1	19.1	19.4
GE 9000	13.9	14.2	15.4	15.8	17.0	17.9	18.2	18.6	18.6	18.7	18.8	18.9	18.9	19.2	19.2	19.5
GE 8000	15.4	15.7	16.9	17.4	18.6	19.5	19.7	20.2	20.2	20.3	20.4	20.5	20.5	20.7	20.7	21.1
GE 7000	16.0	16.4	18.0	18.5	19.7	20.6	20.9	21.3	21.3	21.4	21.5	21.6	21.6	21.9	21.9	22.2
GE 6000	16.0	16.4	18.0	18.5	19.7	20.6	20.9	21.3	21.3	21.4	21.5	21.6	21.6	21.9	21.9	22.2
GE 5000	16.5	16.8	18.5	18.9	20.2	21.1	21.3	21.7	21.7	22.0	22.1	22.2	22.2	22.4	22.5	22.9
GE 4500	17.7	18.0	19.8	20.3	21.5	22.4	22.6	23.1	23.1	23.3	23.4	23.5	23.5	23.8	23.9	24.2
GE 4000	19.5	19.8	21.9	22.9	24.1	25.0	25.2	25.7	25.7	25.9	26.0	26.1	26.1	26.3	26.5	26.8
GE 3500	22.5	23.1	25.3	26.3	27.8	28.7	28.9	29.5	29.6	29.8	29.9	30.0	30.0	30.3	30.4	30.7
GE 3000	24.9	25.4	27.8	28.8	30.4	31.3	31.5	32.1	32.2	32.4	32.5	32.6	32.6	32.8	33.0	33.3
GE 2500	27.8	28.5	31.1	32.2	33.9	34.8	35.0	35.5	35.7	35.9	36.0	36.1	36.1	36.3	36.4	36.8
GE 2000	30.4	31.1	34.2	35.4	37.2	38.1	38.3	38.9	39.0	39.2	39.3	39.5	39.5	39.7	39.8	40.1
GE 1800	32.1	33.0	36.3	37.9	39.8	40.7	40.9	41.5	41.6	41.8	41.9	42.0	42.0	42.3	42.4	42.7
GE 1500	36.3	37.4	41.0	42.6	44.6	45.5	45.7	46.3	46.4	46.6	46.7	46.9	46.9	47.1	47.2	47.5
GE 1200	38.5	39.7	43.7	45.3	47.5	48.8	49.0	49.7	49.8	50.0	50.3	50.4	50.4	50.7	50.8	51.1
GE 1000	40.5	41.8	46.4	48.0	50.7	51.9	52.4	53.1	53.3	53.5	53.8	53.9	53.9	54.1	54.3	54.6
GE 900	41.8	43.2	48.0	49.6	52.7	53.9	54.4	55.2	55.4	55.6	55.9	56.1	56.1	56.3	56.4	56.7
GE 800	43.6	45.1	49.9	51.6	55.2	56.5	57.2	58.0	58.2	58.4	58.7	58.9	58.9	59.1	59.2	59.5
GE 700	46.1	47.5	52.7	54.4	58.1	59.8	60.5	61.3	61.7	61.9	62.2	62.3	62.3	62.6	62.7	63.0
GE 600	47.3	48.8	55.5	58.0	61.8	63.7	64.8	65.7	66.3	66.5	66.9	67.0	67.0	67.3	67.4	67.7
GE 500	48.9	50.3	57.6	60.4	65.0	67.3	68.8	70.2	71.0	71.3	71.9	72.0	72.1	72.3	72.4	72.8
GE 400	49.2	50.7	58.3	61.3	66.5	69.2	71.2	72.8	73.8	74.3	75.0	75.2	75.3	75.6	75.7	76.0
GE 300	49.3	50.8	59.3	62.4	67.8	71.1	73.4	75.1	76.5	77.4	78.5	78.8	79.1	79.7	79.8	80.6
GE 200	49.3	50.8	59.6	63.0	68.9	72.2	75.3	77.4	79.7	81.5	83.6	84.2	85.2	87.4	88.3	89.9
GE 100	49.3	50.8	59.6	63.0	68.9	72.2	75.7	77.7	80.2	82.1	84.8	85.5	86.9	89.8	92.9	98.5
GE 000	49.3	50.8	59.6	63.0	68.9	72.2	75.7	77.7	80.3	82.2	85.0	85.8	87.1	90.1	93.3	100.0

TOTAL NUMBER OF OBSERVATIONS 892

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 09-11

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	9.0	9.1	10.9	11.6	12.5	12.6	12.7	12.8	13.0	13.3	13.3	13.4	13.4	13.4	13.7	14.3
GE 20000	10.2	10.3	12.8	13.8	15.0	15.1	15.2	15.3	15.4	15.7	15.7	15.8	15.8	15.8	16.2	16.9
GE 18000	10.2	10.3	12.8	13.8	15.0	15.1	15.2	15.3	15.4	15.7	15.7	15.8	15.8	15.8	16.2	16.9
GE 16000	10.2	10.3	12.8	13.8	15.0	15.1	15.2	15.3	15.4	15.7	15.7	15.8	15.8	15.8	16.2	16.9
GE 14000	10.2	10.3	12.8	13.8	15.0	15.1	15.2	15.3	15.4	15.7	15.7	15.8	15.8	15.8	16.2	16.9
GE 12000	10.4	10.5	13.1	14.1	15.2	15.3	15.4	15.5	15.6	15.9	15.9	16.1	16.1	16.1	16.4	17.2
GE 10000	11.0	11.1	13.7	15.0	16.1	16.2	16.3	16.4	16.5	16.8	16.8	16.9	16.9	16.9	17.3	18.2
GE 9000	11.3	11.4	14.1	15.3	16.4	16.5	16.6	16.7	16.8	17.2	17.2	17.3	17.3	17.3	17.6	18.5
GE 8000	13.0	13.1	16.5	18.2	19.4	19.6	19.9	20.2	20.3	20.6	20.6	20.7	20.7	20.7	21.0	21.9
GE 7000	13.2	13.3	16.7	18.5	19.7	19.9	20.3	20.5	20.6	20.9	20.9	21.0	21.0	21.0	21.4	22.3
GE 6000	13.2	13.3	16.7	18.5	19.7	19.9	20.3	20.5	20.6	20.9	20.9	21.0	21.0	21.0	21.4	22.3
GE 5000	13.3	13.4	16.9	19.0	20.3	20.5	20.8	21.0	21.2	21.5	21.5	21.6	21.6	21.6	21.9	22.8
GE 4500	13.7	14.0	17.8	19.9	21.2	21.5	21.8	22.0	22.1	22.5	22.5	22.6	22.6	22.6	23.0	23.9
GE 4000	16.2	16.4	20.5	22.9	24.4	24.8	25.1	25.4	25.5	25.8	25.8	25.9	25.9	25.9	26.4	27.2
GE 3500	18.1	18.5	22.8	25.5	27.0	27.5	27.8	28.0	28.1	28.5	28.5	28.6	28.6	28.6	29.0	29.9
GE 3000	20.2	20.7	25.2	27.9	29.7	30.1	30.5	30.7	30.8	31.1	31.1	31.2	31.2	31.2	31.7	32.6
GE 2500	22.1	22.8	27.8	30.5	32.3	32.8	33.1	33.3	33.4	33.8	33.8	33.9	33.9	33.9	34.3	35.2
GE 2000	25.0	25.9	31.3	34.1	36.2	36.8	37.3	37.7	37.8	38.1	38.1	38.3	38.3	38.3	38.8	39.6
GE 1800	26.0	26.9	32.4	35.3	37.4	38.0	38.5	38.9	39.0	39.3	39.3	39.6	39.6	39.6	40.1	41.0
GE 1500	30.0	31.1	38.4	41.3	44.0	44.7	45.4	45.7	46.0	46.3	46.4	46.8	46.8	46.8	47.3	48.2
GE 1200	33.2	34.4	42.6	45.6	48.5	49.5	50.5	50.8	51.1	51.4	51.5	51.9	51.9	51.9	52.4	53.3
GE 1000	36.1	37.4	46.2	49.4	53.4	54.5	55.7	56.0	56.3	56.6	56.7	57.1	57.1	57.1	57.6	58.5
GE 900	36.8	38.1	47.2	50.4	54.5	55.6	57.0	57.4	57.8	58.1	58.3	58.7	58.7	58.7	59.1	60.0
GE 800	38.0	39.3	48.4	51.8	55.9	57.0	58.6	59.1	59.6	59.9	60.1	60.6	60.6	60.6	61.0	61.9
GE 700	38.5	40.0	49.9	53.6	58.1	59.4	61.0	61.7	62.2	62.8	63.0	63.5	63.5	63.5	63.9	64.8
GE 600	39.3	40.8	51.9	55.7	60.6	61.9	63.6	64.2	64.8	65.4	65.7	66.1	66.1	66.1	66.6	67.4
GE 500	39.9	41.3	53.4	58.1	63.3	65.0	66.8	67.8	68.5	69.3	69.8	70.3	70.3	70.5	71.0	71.9
GE 400	40.3	41.7	54.3	59.6	65.1	66.8	68.7	70.2	71.5	72.8	73.3	74.0	74.1	74.4	74.9	75.7
GE 300	40.3	41.7	54.3	60.0	65.8	67.7	70.0	72.1	74.1	75.7	76.6	78.0	78.3	78.7	79.7	80.8
GE 200	40.4	41.9	54.4	60.1	65.9	68.0	70.9	73.2	75.5	77.9	79.5	81.6	82.7	85.0	87.0	90.5
GE 100	40.4	41.9	54.4	60.1	65.9	68.0	70.9	73.4	75.7	78.3	80.0	82.2	83.6	86.9	90.7	98.6
GE 000	40.4	41.9	54.4	60.1	65.9	68.0	70.9	73.4	75.7	78.3	80.0	82.2	83.6	87.0	91.0	100.0

TOTAL NUMBER OF OBSERVATIONS 903

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 12-14

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	9.1	9.4	12.3	12.9	13.5	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.8	14.0
GE 20000	12.2	12.5	16.2	16.8	17.6	17.9	18.0	18.0	18.1	18.1	18.1	18.1	18.1	18.1	18.3	18.5
GE 18000	12.2	12.5	16.2	16.8	17.6	17.9	18.0	18.0	18.1	18.1	18.1	18.1	18.1	18.1	18.3	18.5
GE 16000	12.4	12.7	16.4	17.0	17.8	18.1	18.3	18.3	18.4	18.4	18.4	18.4	18.4	18.4	18.5	18.7
GE 14000	12.5	12.8	16.5	17.1	17.9	18.3	18.4	18.4	18.5	18.5	18.5	18.5	18.5	18.5	18.6	18.8
GE 12000	12.6	12.9	16.6	17.3	18.0	18.4	18.5	18.5	18.6	18.6	18.6	18.6	18.6	18.6	18.7	18.9
GE 10000	13.3	13.6	17.3	18.4	19.1	19.5	19.6	19.6	19.7	19.7	19.7	19.7	19.7	19.7	19.8	20.0
GE 9000	13.5	13.8	17.8	18.9	19.7	20.0	20.1	20.1	20.2	20.4	20.4	20.4	20.4	20.4	20.5	20.7
GE 8000	14.8	15.2	19.4	20.7	21.6	21.9	22.2	22.2	22.3	22.5	22.5	22.5	22.5	22.5	22.8	23.0
GE 7000	15.2	15.5	19.7	21.0	21.9	22.2	22.6	22.6	22.7	22.8	22.9	22.9	22.9	22.9	23.2	23.5
GE 6000	15.2	15.5	19.7	21.0	21.9	22.2	22.6	22.6	22.7	22.8	22.9	22.9	22.9	22.9	23.2	23.5
GE 5000	15.2	15.5	19.7	21.0	22.1	22.5	22.8	22.8	22.9	23.0	23.1	23.1	23.1	23.1	23.5	23.7
GE 4500	15.5	15.8	20.2	21.6	22.8	23.1	23.5	23.5	23.6	23.7	23.8	23.8	23.8	23.8	24.1	24.3
GE 4000	17.0	17.6	22.5	23.8	25.1	25.4	25.8	25.8	25.9	26.0	26.1	26.1	26.1	26.1	26.4	26.7
GE 3500	18.7	19.4	24.3	25.7	27.0	27.3	27.7	27.7	27.8	27.9	28.0	28.0	28.0	28.0	28.3	28.5
GE 3000	21.7	22.7	28.0	29.4	30.9	31.4	31.7	32.0	32.2	32.4	32.5	32.6	32.6	32.6	33.0	33.2
GE 2500	23.9	24.9	30.4	31.9	33.5	34.1	34.4	34.6	34.8	35.1	35.2	35.3	35.3	35.3	35.6	35.8
GE 2000	28.9	29.9	36.2	37.7	39.6	40.2	40.6	40.9	41.2	41.4	41.5	41.6	41.6	41.6	41.9	42.1
GE 1800	30.8	31.7	38.8	40.5	42.8	43.5	43.9	44.2	44.5	44.7	44.8	44.9	44.9	44.9	45.2	45.5
GE 1500	33.8	35.0	43.4	45.0	47.5	48.2	48.8	49.1	49.3	49.6	49.7	49.8	49.8	49.8	50.1	50.3
GE 1200	37.8	38.9	48.7	50.4	53.0	53.8	54.3	54.6	54.9	55.1	55.2	55.3	55.3	55.3	55.6	55.9
GE 1000	41.3	42.5	53.3	55.4	58.4	59.3	60.1	60.5	60.7	61.0	61.1	61.2	61.2	61.2	61.5	61.7
GE 900	42.1	43.5	54.9	57.0	60.2	61.1	61.8	62.3	62.5	63.1	63.2	63.3	63.3	63.3	63.6	63.8
GE 800	42.5	43.9	55.9	58.3	61.7	62.6	63.4	63.8	64.0	64.7	64.8	64.9	64.9	64.9	65.3	65.5
GE 700	43.0	44.5	58.2	60.8	65.6	66.8	67.6	68.1	68.4	69.0	69.1	69.2	69.2	69.2	69.6	69.8
GE 600	43.6	45.0	59.7	62.6	68.1	69.4	70.1	70.8	71.1	71.8	72.0	72.1	72.1	72.1	72.5	72.7
GE 500	44.2	45.7	61.3	64.5	70.6	71.9	72.8	74.7	75.0	75.8	76.0	76.1	76.5	76.5	76.9	77.1
GE 400	45.0	46.5	62.7	65.9	72.2	73.8	75.2	78.0	78.4	79.3	79.8	79.9	80.3	80.4	80.8	81.0
GE 300	45.1	46.6	63.1	66.3	73.6	75.1	76.7	79.5	80.8	82.1	82.7	83.1	83.6	84.2	84.6	85.5
GE 200	45.1	46.6	63.1	66.3	73.7	75.2	76.8	80.2	81.6	83.6	86.2	86.9	88.1	89.4	90.7	93.5
GE 100	45.1	46.6	63.1	66.3	73.7	75.2	76.8	80.2	81.6	83.8	86.9	87.8	89.0	91.0	93.9	98.9
GE 000	45.1	46.6	63.1	66.3	73.7	75.2	76.8	80.2	81.6	83.8	86.9	87.8	89.0	91.2	94.2	100.0

TOTAL NUMBER OF OBSERVATIONS 904

D - 2 - 104

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 15-17

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	11.9	12.1	15.2	15.6	16.4	16.7	16.8	16.8	17.1	17.2	17.3	17.3	17.3	17.3	17.3	17.3
GE 20000	13.8	14.1	17.7	18.1	19.0	19.4	19.6	19.6	19.9	20.0	20.1	20.1	20.1	20.1	20.1	20.1
GE 18000	13.8	14.1	17.7	18.1	19.0	19.4	19.6	19.6	19.9	20.0	20.1	20.1	20.1	20.1	20.1	20.1
GE 16000	13.8	14.1	17.7	18.1	19.0	19.4	19.6	19.6	19.9	20.0	20.1	20.1	20.1	20.1	20.1	20.1
GE 14000	13.8	14.1	17.7	18.1	19.0	19.4	19.6	19.6	19.9	20.0	20.1	20.1	20.1	20.1	20.1	20.1
GE 12000	14.0	14.3	17.9	18.3	19.2	19.7	19.8	19.8	20.1	20.2	20.3	20.3	20.3	20.3	20.3	20.3
GE 10000	14.3	14.7	18.3	18.8	19.7	20.1	20.2	20.2	20.6	20.7	20.8	20.8	20.8	20.8	20.8	20.8
GE 9000	14.9	15.3	19.0	19.4	20.3	20.9	21.2	21.2	21.6	21.7	21.8	21.8	21.8	21.8	21.8	21.8
GE 8000	15.8	16.2	20.9	21.6	22.6	23.1	23.7	23.7	24.0	24.2	24.3	24.3	24.3	24.3	24.3	24.3
GE 7000	16.7	17.1	21.8	22.4	23.4	24.0	24.6	24.6	24.9	25.1	25.2	25.2	25.2	25.2	25.2	25.2
GE 6000	16.8	17.2	21.9	22.6	23.8	24.3	24.9	24.9	25.2	25.4	25.6	25.6	25.6	25.6	25.6	25.6
GE 5000	17.6	18.0	22.8	23.6	24.8	25.3	25.9	25.9	26.2	26.4	26.6	26.6	26.6	26.6	26.6	26.6
GE 4500	18.4	18.9	23.7	24.4	25.7	26.2	26.8	26.8	27.1	27.3	27.4	27.4	27.4	27.4	27.4	27.4
GE 4000	20.6	21.1	26.3	27.2	28.4	29.2	29.8	29.8	30.1	30.3	30.4	30.4	30.4	30.4	30.4	30.4
GE 3500	22.1	22.7	28.2	29.1	30.6	31.3	31.9	31.9	32.2	32.4	32.6	32.6	32.6	32.6	32.6	32.6
GE 3000	27.1	27.7	33.9	34.8	36.6	37.3	37.9	37.9	38.2	38.4	38.6	38.6	38.6	38.6	38.6	38.6
GE 2500	29.3	29.9	36.2	37.1	38.9	39.7	40.2	40.2	40.6	40.8	40.9	40.9	40.9	40.9	40.9	40.9
GE 2000	33.8	34.4	41.1	42.1	44.2	45.0	45.7	45.8	46.2	46.4	46.6	46.6	46.6	46.6	46.6	46.6
GE 1800	35.6	36.2	43.6	44.9	47.4	48.2	48.9	49.0	49.4	49.7	49.8	49.8	49.8	49.8	49.8	49.8
GE 1500	40.4	41.2	49.4	51.0	53.7	54.6	55.3	55.6	56.0	56.2	56.3	56.3	56.3	56.3	56.3	56.3
GE 1200	42.8	43.6	52.3	53.9	56.8	57.7	58.4	58.7	59.1	59.3	59.4	59.4	59.4	59.4	59.6	59.6
GE 1000	45.6	46.4	56.1	57.7	60.8	61.9	62.8	63.2	63.7	63.9	64.0	64.0	64.0	64.0	64.1	64.1
GE 900	46.0	46.9	56.9	58.7	62.0	63.3	64.2	64.7	65.1	65.3	65.4	65.4	65.4	65.4	65.6	65.6
GE 800	46.6	47.4	58.1	60.0	63.4	65.0	66.0	66.6	67.1	67.3	67.4	67.4	67.4	67.4	67.6	67.6
GE 700	47.3	48.2	60.0	61.9	65.9	67.4	68.8	69.3	69.9	70.1	70.3	70.3	70.4	70.4	70.6	70.6
GE 600	48.3	49.2	61.3	64.2	68.4	70.3	71.8	72.3	72.9	73.4	73.8	73.8	73.9	74.0	74.1	74.1
GE 500	48.8	49.7	62.6	65.7	70.7	72.9	74.6	75.2	75.9	76.7	77.0	77.0	77.1	77.2	77.3	77.3
GE 400	49.1	50.0	63.1	66.3	72.1	74.4	76.8	78.0	79.3	80.4	81.4	81.4	81.7	81.8	81.9	81.9
GE 300	49.2	50.2	63.4	66.7	73.0	75.7	78.0	80.7	82.3	84.2	85.6	85.7	86.0	86.1	86.8	87.2
GE 200	49.2	50.2	63.4	66.7	73.1	76.1	78.4	81.2	83.1	85.9	87.9	88.3	89.2	90.6	91.9	93.9
GE 100	49.2	50.2	63.4	66.7	73.1	76.1	78.4	81.2	83.2	86.0	88.3	88.9	89.9	91.6	94.1	99.3
GE 000	49.2	50.2	63.4	66.7	73.1	76.1	78.4	81.2	83.2	86.0	88.3	88.9	89.9	91.6	94.1	100.0

TOTAL NUMBER OF OBSERVATIONS 900

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 18-20

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	15.7	16.2	17.4	17.5	18.2	18.4	18.5	18.7	18.7	18.9	19.1	19.2	19.2	19.2	19.2	19.2
GE 20000	17.6	18.0	19.5	19.7	20.3	20.6	20.7	21.1	21.1	21.3	21.5	21.6	21.6	21.6	21.6	21.6
GE 18000	17.6	18.0	19.5	19.7	20.3	20.6	20.7	21.1	21.1	21.3	21.5	21.6	21.6	21.6	21.6	21.6
GE 16000	17.6	18.0	19.5	19.7	20.3	20.6	20.7	21.1	21.1	21.3	21.5	21.6	21.6	21.6	21.6	21.6
GE 14000	17.6	18.0	19.5	19.7	20.3	20.6	20.7	21.1	21.1	21.3	21.5	21.6	21.6	21.6	21.6	21.6
GE 12000	17.7	18.2	19.7	19.8	20.5	20.7	20.8	21.3	21.3	21.4	21.6	21.7	21.7	21.7	21.7	21.7
GE 10000	18.2	18.6	20.2	20.3	21.0	21.3	21.4	21.8	21.8	22.0	22.2	22.3	22.3	22.3	22.3	22.3
GE 9000	18.5	19.1	20.8	20.9	21.6	21.8	22.2	22.6	22.6	22.8	23.0	23.1	23.1	23.1	23.1	23.1
GE 8000	20.8	21.4	23.2	23.7	24.7	24.9	25.4	25.9	25.9	26.0	26.2	26.3	26.3	26.3	26.3	26.3
GE 7000	21.3	21.8	23.7	24.1	25.2	25.4	25.9	26.3	26.3	26.4	26.7	26.8	26.8	26.8	26.8	26.8
GE 6000	21.3	21.8	23.9	24.4	25.5	25.7	26.2	26.7	26.7	26.8	27.0	27.1	27.1	27.1	27.1	27.1
GE 5000	21.7	22.3	24.5	25.2	26.3	26.6	27.0	27.5	27.5	27.6	27.8	27.9	27.9	27.9	27.9	27.9
GE 4500	22.6	23.2	25.4	26.1	27.2	27.5	27.9	28.4	28.4	28.5	28.7	28.9	28.9	28.9	28.9	28.9
GE 4000	25.2	25.7	28.4	29.1	30.2	30.5	30.9	31.4	31.4	31.5	31.7	31.8	31.8	31.8	31.8	31.8
GE 3500	28.7	29.5	32.6	33.4	34.7	35.1	35.5	36.0	36.0	36.1	36.3	36.4	36.4	36.4	36.4	36.4
GE 3000	31.8	32.9	36.2	37.1	38.4	38.7	39.2	39.7	39.7	39.8	40.0	40.1	40.1	40.1	40.1	40.1
GE 2500	33.0	34.0	37.9	38.9	40.1	40.6	41.0	41.5	41.5	41.7	42.0	42.1	42.1	42.1	42.1	42.1
GE 2000	37.2	38.4	42.5	43.6	45.3	45.7	46.3	46.8	46.8	47.0	47.2	47.4	47.4	47.4	47.4	47.4
GE 1800	39.8	40.9	45.4	46.4	48.2	48.7	49.3	49.8	49.8	50.0	50.2	50.3	50.3	50.3	50.3	50.3
GE 1500	44.6	45.7	50.9	52.1	53.9	54.6	55.2	55.6	55.6	55.9	56.1	56.2	56.2	56.2	56.2	56.2
GE 1200	47.7	49.0	54.6	56.0	57.9	58.6	59.2	59.7	59.7	59.9	60.1	60.2	60.2	60.2	60.2	60.2
GE 1000	50.8	52.1	58.0	59.4	61.7	62.5	63.3	64.3	64.3	64.5	64.7	64.8	64.8	64.8	64.8	64.8
GE 900	51.8	53.1	59.4	60.8	63.4	64.3	65.1	66.0	66.0	66.2	66.4	66.7	66.7	66.7	66.7	66.7
GE 800	52.3	53.6	60.1	62.0	64.8	66.0	66.8	67.8	67.8	68.0	68.3	68.5	68.5	68.5	68.5	68.5
GE 700	52.5	53.8	61.0	63.0	66.2	67.5	68.3	69.3	69.3	69.7	69.9	70.1	70.5	70.5	70.5	70.5
GE 600	53.3	54.6	62.6	65.3	68.6	69.9	71.0	72.1	72.2	72.6	72.9	73.1	73.4	73.4	73.4	73.4
GE 500	54.4	55.7	64.9	68.0	72.9	74.4	75.9	77.0	78.0	78.5	78.7	79.1	79.4	79.4	79.4	79.4
GE 400	54.5	55.9	65.5	68.7	73.9	75.4	76.9	78.0	79.9	80.6	81.1	81.5	81.8	82.0	82.0	82.0
GE 300	54.6	56.0	65.7	69.1	74.7	76.3	77.8	80.1	82.2	83.3	84.1	84.8	85.4	85.5	86.0	86.6
GE 200	54.6	56.0	65.7	69.1	74.7	76.4	77.9	80.8	83.1	84.4	86.0	87.2	88.4	89.8	91.1	92.8
GE 100	54.6	56.0	65.7	69.1	74.7	76.4	78.0	80.9	83.3	84.9	86.7	88.3	89.8	92.0	94.3	99.2
GE 000	54.6	56.0	65.7	69.1	74.7	76.4	78.0	80.9	83.3	84.9	86.7	88.3	89.8	92.0	94.3	100.0

TOTAL NUMBER OF OBSERVATIONS 870

D - 2 - 106

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: 21-23

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	14.8	15.3	16.8	16.8	17.1	17.5	17.6	17.7	17.7	17.7	17.8	17.8	17.8	17.8	17.9	17.9
GE 20000	16.7	17.1	18.7	18.7	19.3	20.0	20.2	20.3	20.3	20.3	20.5	20.5	20.5	20.5	20.6	20.6
GE 18000	16.7	17.1	18.7	18.7	19.3	20.0	20.2	20.3	20.3	20.3	20.5	20.5	20.5	20.5	20.6	20.6
GE 16000	16.7	17.1	18.7	18.7	19.3	20.0	20.2	20.3	20.3	20.3	20.5	20.5	20.5	20.5	20.6	20.6
GE 14000	16.7	17.1	18.7	18.7	19.3	20.0	20.2	20.3	20.3	20.3	20.5	20.5	20.5	20.5	20.6	20.6
GE 12000	16.8	17.2	18.9	18.9	19.4	20.1	20.3	20.5	20.5	20.5	20.6	20.6	20.6	20.6	20.7	20.7
GE 10000	17.1	17.6	19.5	19.5	20.1	20.8	21.0	21.1	21.1	21.1	21.3	21.3	21.3	21.3	21.4	21.4
GE 9000	18.0	18.5	20.5	20.5	21.0	21.7	22.0	22.1	22.1	22.1	22.2	22.2	22.2	22.2	22.3	22.3
GE 8000	19.7	20.1	22.6	22.8	23.7	24.4	24.6	24.7	24.7	24.7	24.8	24.8	24.8	24.8	24.9	24.9
GE 7000	19.7	20.1	22.8	22.9	23.8	24.5	24.7	24.8	24.8	24.8	24.9	24.9	24.9	24.9	25.1	25.1
GE 6000	19.7	20.1	22.9	23.0	23.9	24.6	24.8	24.9	24.9	24.9	25.1	25.1	25.1	25.1	25.2	25.2
GE 5000	19.9	20.3	23.3	23.4	24.4	25.1	25.3	25.4	25.4	25.4	25.5	25.5	25.5	25.5	25.6	25.6
GE 4500	21.4	21.8	24.9	25.1	26.0	26.9	27.2	27.4	27.4	27.4	27.5	27.5	27.5	27.5	27.6	27.6
GE 4000	23.0	23.4	26.8	26.9	27.8	28.7	29.1	29.2	29.2	29.2	29.3	29.3	29.3	29.3	29.4	29.4
GE 3500	25.2	25.6	29.2	29.3	30.3	31.4	31.7	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.2	32.2
GE 3000	28.4	29.0	32.8	32.9	33.9	34.9	35.3	35.5	35.5	35.5	35.6	35.6	35.6	35.6	35.7	35.7
GE 2500	30.1	30.7	34.8	34.9	36.0	37.0	37.4	37.6	37.6	37.6	37.7	37.7	37.7	37.7	37.8	37.8
GE 2000	35.5	36.1	40.8	40.9	42.2	43.2	43.6	43.8	43.8	44.0	44.1	44.1	44.1	44.1	44.3	44.3
GE 1800	37.8	38.4	43.3	43.4	44.7	45.7	46.1	46.3	46.3	46.6	46.7	46.7	46.7	46.7	46.8	46.8
GE 1500	42.3	42.9	48.4	48.5	50.0	51.0	51.4	51.7	51.7	52.0	52.1	52.1	52.1	52.1	52.2	52.2
GE 1200	45.7	46.6	52.8	53.0	54.6	55.7	56.1	56.4	56.4	56.8	56.9	56.9	56.9	56.9	57.0	57.0
GE 1000	49.5	50.3	57.5	57.7	59.4	60.8	61.3	61.6	61.6	62.0	62.1	62.1	62.1	62.1	62.2	62.2
GE 900	51.0	51.8	59.3	59.5	61.6	63.0	63.4	63.8	63.8	64.1	64.3	64.3	64.3	64.3	64.4	64.4
GE 800	52.3	53.2	61.0	61.4	63.9	65.5	66.2	66.8	66.8	67.4	67.5	67.5	67.5	67.5	67.6	67.6
GE 700	53.8	54.7	63.0	63.6	66.4	68.0	68.9	69.5	69.7	70.2	70.3	70.6	70.6	70.6	70.7	70.7
GE 600	54.8	55.7	64.9	65.6	69.3	71.3	72.1	72.9	73.0	73.6	73.7	73.9	73.9	73.9	74.0	74.0
GE 500	55.6	56.6	66.1	66.9	71.4	73.6	74.4	75.4	76.0	76.6	76.8	77.4	77.7	77.7	77.8	77.8
GE 400	55.9	56.8	66.8	67.6	73.0	75.4	76.8	77.8	78.7	79.4	79.7	80.3	80.8	80.8	80.9	81.0
GE 300	56.2	57.1	67.2	68.2	73.8	76.3	77.9	79.3	80.3	81.6	82.3	83.3	83.8	83.8	84.3	84.5
GE 200	56.2	57.1	67.4	68.3	74.1	76.8	78.5	80.1	81.5	83.7	86.0	87.2	88.5	89.7	91.4	92.4
GE 100	56.3	57.2	67.5	68.4	74.3	76.9	78.6	80.2	81.7	83.9	86.3	87.8	89.5	91.1	94.4	99.1
GE 000	56.3	57.2	67.5	68.4	74.3	76.9	78.6	80.2	81.7	83.9	86.3	87.8	89.5	91.1	94.4	100.0

TOTAL NUMBER OF OBSERVATIONS 870

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	12.9	13.2	15.2	15.5	16.3	16.7	16.8	17.0	17.1	17.2	17.3	17.4	17.4	17.4	17.5	17.6
GE 20000	14.5	14.8	17.2	17.6	18.5	19.0	19.2	19.4	19.5	19.6	19.7	19.8	19.8	19.9	19.9	20.1
GE 18000	14.5	14.8	17.2	17.6	18.5	19.0	19.2	19.4	19.5	19.6	19.7	19.8	19.8	19.9	19.9	20.1
GE 16000	14.5	14.9	17.2	17.6	18.5	19.0	19.2	19.4	19.5	19.7	19.7	19.8	19.8	19.9	20.0	20.1
GE 14000	14.5	14.9	17.2	17.6	18.5	19.0	19.2	19.5	19.5	19.7	19.8	19.8	19.9	19.9	20.0	20.1
GE 12000	14.6	15.0	17.4	17.8	18.7	19.2	19.4	19.6	19.7	19.8	19.9	20.0	20.0	20.1	20.1	20.3
GE 10000	15.0	15.4	17.9	18.4	19.3	19.8	20.0	20.2	20.3	20.5	20.5	20.6	20.6	20.7	20.7	20.9
GE 9000	15.4	15.8	18.3	18.8	19.7	20.3	20.5	20.7	20.8	21.0	21.1	21.2	21.2	21.2	21.3	21.5
GE 8000	16.8	17.3	20.2	20.8	21.9	22.4	22.8	23.0	23.1	23.3	23.4	23.5	23.5	23.5	23.6	23.8
GE 7000	17.2	17.6	20.7	21.4	22.5	23.0	23.3	23.6	23.7	23.9	24.0	24.1	24.1	24.1	24.2	24.4
GE 6000	17.2	17.6	20.7	21.5	22.6	23.1	23.4	23.7	23.8	24.0	24.1	24.2	24.2	24.2	24.3	24.5
GE 5000	17.6	18.0	21.2	22.0	23.2	23.7	24.1	24.3	24.4	24.6	24.7	24.8	24.8	24.8	24.9	25.1
GE 4500	18.6	19.0	22.3	23.1	24.3	24.8	25.2	25.4	25.5	25.7	25.8	25.9	25.9	26.0	26.1	26.3
GE 4000	20.5	21.0	24.5	25.5	26.8	27.4	27.8	28.0	28.1	28.3	28.4	28.5	28.5	28.5	28.7	28.8
GE 3500	22.7	23.3	27.1	28.1	29.5	30.2	30.5	30.8	30.9	31.1	31.2	31.3	31.3	31.3	31.5	31.6
GE 3000	25.9	26.6	30.8	31.9	33.4	34.1	34.5	34.8	34.9	35.1	35.2	35.3	35.3	35.4	35.5	35.7
GE 2500	27.9	28.6	33.1	34.2	35.8	36.5	36.9	37.2	37.3	37.5	37.6	37.7	37.7	37.8	37.9	38.1
GE 2000	31.8	32.7	37.5	38.8	40.6	41.3	41.8	42.1	42.3	42.5	42.6	42.7	42.8	42.8	42.9	43.1
GE 1800	33.8	34.6	39.8	41.2	43.1	43.9	44.4	44.7	44.9	45.1	45.2	45.4	45.4	45.5	45.6	45.8
GE 1500	38.0	39.0	44.9	46.4	48.5	49.4	49.9	50.3	50.4	50.8	50.9	51.0	51.1	51.1	51.2	51.4
GE 1200	40.9	42.0	48.6	50.1	52.5	53.4	54.0	54.4	54.5	54.9	55.0	55.2	55.2	55.3	55.4	55.6
GE 1000	43.8	45.0	52.3	54.0	56.7	57.8	58.5	59.0	59.2	59.5	59.7	59.8	59.9	59.9	60.0	60.2
GE 900	45.1	46.4	54.1	55.8	58.8	59.9	60.6	61.2	61.4	61.8	61.9	62.1	62.1	62.2	62.3	62.5
GE 800	46.0	47.3	55.3	57.3	60.6	61.8	62.6	63.3	63.5	63.9	64.1	64.3	64.3	64.4	64.5	64.7
GE 700	47.1	48.4	57.2	59.3	63.0	64.5	65.4	66.1	66.4	66.9	67.1	67.3	67.4	67.4	67.5	67.7
GE 600	48.0	49.3	58.9	61.5	65.7	67.3	68.5	69.2	69.5	70.1	70.4	70.6	70.7	70.7	70.9	71.0
GE 500	48.8	50.1	60.5	63.5	68.7	70.5	72.0	73.1	73.8	74.4	74.8	75.0	75.3	75.3	75.5	75.7
GE 400	49.3	50.6	61.5	64.7	70.4	72.6	74.4	75.8	76.8	77.8	78.4	78.7	79.0	79.1	79.2	79.4
GE 300	49.4	50.8	61.9	65.2	71.4	73.8	75.9	77.9	79.2	80.6	81.5	82.2	82.6	82.8	83.3	83.9
GE 200	49.4	50.8	62.0	65.3	71.7	74.2	76.5	78.9	80.6	82.7	84.6	85.8	86.9	88.6	89.8	91.6
GE 100	49.5	50.8	62.0	65.3	71.7	74.2	76.6	79.0	80.8	83.0	85.2	86.6	88.0	90.4	93.2	98.9
GE 000	49.5	50.8	62.0	65.3	71.7	74.2	76.6	79.0	80.8	83.1	85.2	86.7	88.1	90.6	93.4	100.0

TOTAL NUMBER OF OBSERVATIONS 7105

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: ALL HOURS: ALL

CEILING IN FEET	VISIBILITY IN METERS GE 112	GE 90	GE 80	GE 60	GE 48	GE 40	GE 32	GE 24	GE 20	GE 16	GE 12	GE 10	GE 08	GE 06	GE 04	GE 00
NO CEIL	25.4	26.1	29.6	30.3	31.7	32.2	32.6	33.0	33.2	33.4	33.5	33.6	33.7	33.8	33.9	34.1
GE 20000	29.0	29.8	33.8	34.7	36.3	36.8	37.4	37.8	38.0	38.3	38.4	38.5	38.6	38.7	38.8	39.0
GE 18000	29.0	29.9	33.9	34.7	36.4	36.9	37.4	37.8	38.1	38.3	38.5	38.6	38.6	38.7	38.9	39.1
GE 16000	29.1	29.9	33.9	34.7	36.4	36.9	37.4	37.9	38.1	38.3	38.5	38.6	38.6	38.7	38.9	39.1
GE 14000	29.2	30.0	34.0	34.9	36.5	37.1	37.6	38.0	38.2	38.5	38.6	38.7	38.8	38.9	39.0	39.2
GE 12000	29.4	30.3	34.4	35.2	36.9	37.4	38.0	38.4	38.6	38.9	39.0	39.1	39.2	39.3	39.4	39.6
GE 10000	31.2	32.2	36.5	37.4	39.2	39.8	40.3	40.8	41.0	41.3	41.5	41.5	41.6	41.7	41.9	42.1
GE 9000	31.9	32.9	37.3	38.3	40.2	40.7	41.3	41.8	42.0	42.3	42.5	42.6	42.6	42.8	42.9	43.1
GE 8000	34.3	35.3	40.1	41.1	43.1	43.8	44.5	45.0	45.2	45.5	45.7	45.8	45.9	46.0	46.1	46.4
GE 7000	34.8	35.8	40.7	41.8	43.9	44.5	45.2	45.7	46.0	46.3	46.5	46.6	46.7	46.8	46.9	47.2
GE 6000	35.0	36.1	41.0	42.1	44.2	44.8	45.6	46.1	46.3	46.6	46.8	46.9	47.0	47.1	47.3	47.5
GE 5000	36.3	37.4	42.5	43.6	45.7	46.4	47.1	47.7	47.9	48.2	48.4	48.5	48.6	48.7	48.9	49.1
GE 4500	38.0	39.1	44.4	45.5	47.7	48.4	49.2	49.7	50.0	50.3	50.5	50.6	50.7	50.8	51.0	51.2
GE 4000	41.2	42.4	48.0	49.3	51.6	52.3	53.2	53.7	54.0	54.3	54.5	54.6	54.7	54.8	55.0	55.2
GE 3500	44.4	45.8	51.8	53.1	55.6	56.3	57.2	57.8	58.1	58.4	58.6	58.7	58.8	59.0	59.1	59.4
GE 3000	48.3	49.8	56.4	57.8	60.5	61.3	62.2	62.9	63.2	63.6	63.8	63.9	64.0	64.2	64.3	64.6
GE 2500	50.2	51.8	58.6	60.2	62.9	63.8	64.8	65.4	65.8	66.2	66.4	66.5	66.6	66.8	66.9	67.2
GE 2000	53.4	55.1	62.5	64.1	67.0	68.0	69.0	69.7	70.1	70.5	70.8	70.9	71.0	71.2	71.3	71.6
GE 1800	54.5	56.2	63.8	65.5	68.5	69.4	70.5	71.3	71.6	72.1	72.3	72.5	72.6	72.7	72.9	73.1
GE 1500	57.2	59.0	67.3	69.0	72.3	73.4	74.5	75.4	75.8	76.3	76.6	76.7	76.8	77.0	77.1	77.4
GE 1200	59.2	61.1	69.9	71.8	75.3	76.5	77.7	78.6	79.1	79.6	79.9	80.0	80.1	80.3	80.5	80.7
GE 1000	60.8	62.7	72.0	74.0	77.9	79.1	80.5	81.5	82.0	82.6	82.9	83.1	83.2	83.3	83.5	83.8
GE 900	61.4	63.4	73.0	75.1	79.0	80.4	81.8	82.8	83.3	84.0	84.3	84.5	84.6	84.7	84.9	85.2
GE 800	61.9	63.9	73.8	75.9	80.0	81.4	82.9	84.0	84.5	85.2	85.6	85.7	85.8	86.0	86.2	86.4
GE 700	62.5	64.5	74.8	77.0	81.4	82.9	84.4	85.6	86.2	86.9	87.3	87.5	87.6	87.8	88.0	88.2
GE 600	62.9	64.9	75.6	78.0	82.5	84.1	85.8	87.0	87.7	88.5	89.0	89.1	89.3	89.4	89.6	89.9
GE 500	63.3	65.3	76.3	78.8	83.8	85.5	87.3	88.8	89.5	90.4	91.0	91.2	91.4	91.6	91.7	92.0
GE 400	63.4	65.4	76.7	79.3	84.5	86.3	88.4	90.0	90.9	91.9	92.6	92.8	93.0	93.2	93.4	93.7
GE 300	63.5	65.5	76.8	79.4	84.8	86.7	88.9	90.6	91.7	92.8	93.7	94.0	94.3	94.6	94.8	95.2
GE 200	63.5	65.5	76.8	79.5	84.9	86.8	89.1	90.9	92.0	93.4	94.4	94.9	95.4	96.0	96.6	97.3
GE 100	63.5	65.5	76.8	79.5	84.9	86.8	89.1	91.0	92.1	93.5	94.6	95.2	95.7	96.5	97.6	99.7
GE 000	63.5	65.5	76.8	79.5	84.9	86.8	89.1	91.0	92.1	93.5	94.6	95.2	95.7	96.6	97.7	100.0

TOTAL NUMBER OF OBSERVATIONS: 84997

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PPPPPPPP        AAAAAA        RRRRRRRR        TTTTTTTTTT        EEEEEEEEEE
PPPPPPPPP      AAAAAAAA       RRRRRRRRR       TTTTTTTTTT        EEEEEEEEEE
PP      PP     AA      AA     RR      RR          TT            EE
PP      PP     AA      AA     RR      RR          TT            EE
PPPPPPPPP      AA      AA     RRRRRRRRR           TT            EEEEEE
PPPPPPPP       AAAAAAAAAA     RRRRRRRR            TT            EEEEEE
PP             AAAAAAAAAA     RR    RR            TT            EE
PP             AA      AA     RR     RR           TT            EE
PP             AA      AA     RR      RR          TT            EEEEEEEEEE
PP             AA      AA     RR       RR         TT            EEEEEEEEEE
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PART E

TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

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

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

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

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

DRY BULB, WET BULB, AND DEW POINT TEMPERATURES.
THESE TABLES ARE CREATED FROM HOURLY OBSERVATIONS--DATA IS SUMMARIZED:

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

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

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

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

TEMPERATURE CONVERSIONS: $F = 1.8C + 32$

$C = K - 273.0$ (BEFORE 5 APRIL 77)
$C = K - 273.2$ (SINCE 5 APRIL 77)

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

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

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

TEMP (DEG-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE 95								.1					.0
GE 90						.1	1.5	.1					.1
GE 85					.3	1.8	6.1	2.8	.5				1.0
GE 80				.1	1.8	7.5	16.5	12.2	2.9				3.4
GE 75				.7	7.4	19.7	30.3	26.0	10.0	.4			7.9
GE 70			.5	3.5	19.6	37.2	50.6	47.5	26.5	3.4			15.7
GE 65			1.7	10.2	33.2	55.9	71.0	70.0	47.4	9.9	.1		24.9
GE 60		.5	6.1	23.0	54.6	80.5	91.9	93.1	74.4	26.0	.8		37.5
GE 55		3.1	13.2	41.8	77.2	94.1	99.5	99.5	91.8	52.2	6.4	.9	48.2
GE 50	2.3	10.1	29.8	64.1	92.7	99.7	100.0	100.0	99.1	77.1	22.6	6.4	58.6
GE 45	13.6	25.7	56.5	83.2	99.1	100.0			100.0	93.1	47.2	20.4	69.8
GE 40	33.2	46.5	77.2	95.9	99.8					98.9	70.4	42.8	80.3
GE 35	61.6	70.6	93.3	99.8	100.0					99.9	89.7	69.9	90.3
GE 33	72.2	79.7	96.0	100.0						100.0	93.9	79.5	93.4
GE 30	82.8	89.3	99.2								98.3	89.5	96.6
GE 25	92.2	96.7	99.7								99.9	97.0	98.8
GE 20	96.9	98.1	100.0								100.0	99.5	99.5
GE 15	99.7	99.8										100.0	100.0
GE 10	100.0	99.9											100.0
GE 5		100.0											100.0
MEAN	36.1	38.9	45.7	53.2	61.3	66.8	70.3	69.6	64.6	55.0	43.8	38.3	53.6
SD	7.51	8.12	7.95	8.52	8.61	8.25	8.35	7.52	7.40	7.23	7.03	7.26	14.57
TOTAL OBS	1137	1045	1116	1050	1120	1102	1101	1104	1065	1131	1090	1129	13190

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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

TEMP (DEG-F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE 80							.1						.0
GE 75							.1						.0
GE 70							.6	.1					.1
GE 65					.1	.8	2.8	1.1					.4
GE 60					.4	6.3	16.2	12.4	2.5	.2			3.2
GE 55				.2	7.0	24.4	42.7	41.9	18.0	3.7	.2		11.5
GE 50		.1	.6	3.5	25.0	57.5	80.1	78.8	49.5	16.1	1.7	.4	26.1
GE 45	1.1	1.6	3.9	17.0	53.8	86.8	96.3	95.7	79.2	41.0	8.3	3.6	40.7
GE 40	6.4	8.9	16.2	38.9	80.0	97.8	99.8	99.6	95.2	66.6	25.6	11.9	53.9
GE 35	24.5	27.1	46.3	72.7	96.1	100.0	100.0	100.0	99.7	91.1	54.9	33.6	70.5
GE 33	36.3	36.4	58.1	82.8	98.3				100.0	95.1	65.6	46.4	76.6
GE 30	55.5	53.8	74.6	93.8	99.9					98.9	82.8	63.2	85.2
GE 25	73.0	75.6	90.1	99.7	100.0					100.0	95.3	81.4	92.9
GE 20	84.3	87.0	97.0	100.0							98.9	92.1	96.6
GE 15	92.1	93.4	99.2								100.0	97.4	98.5
GE 10	96.7	97.1	99.9									99.8	99.5
GE 5	99.4	99.0	100.0									100.0	99.9
GE 0	99.9	99.8											100.0
GE -5	100.0	100.0											100.0
MEAN	28.6	29.2	33.4	38.3	45.1	50.6	53.8	53.4	49.1	42.8	35.3	31.2	40.9
SD	8.55	8.59	6.79	5.95	6.15	5.59	5.56	5.20	5.55	6.30	6.54	7.64	11.21
TOTAL OBS	1137	1045	1116	1050	1120	1102	1101	1104	1065	1131	1090	1129	13190

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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

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

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

TEMP (DEG-F)		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
GE	80							.6	.1					.1
GE	75					.1	1.1	4.5	1.3	.1				.6
GE	70					1.2	6.4	15.2	10.6	1.5				2.9
GE	65				.6	6.2	19.8	33.8	31.2	9.5	.6			8.5
GE	60			.3	2.6	19.1	43.7	61.2	62.0	33.9	4.6			18.9
GE	55		.1	1.3	11.1	41.3	73.4	90.4	91.0	66.5	20.3	.7		33.0
GE	50	.3	1.5	7.5	30.1	70.9	93.6	99.6	99.7	91.1	46.7	6.9	1.6	45.7
GE	45	3.8	9.2	24.8	56.3	91.4	99.7	100.0	100.0	99.2	77.1	24.1	8.8	57.8
GE	40	18.2	25.2	53.0	83.0	98.7	100.0			100.0	94.7	52.4	27.6	71.0
GE	35	43.9	51.7	79.3	97.8	100.0					99.6	79.4	53.4	83.7
GE	33	56.6	62.1	85.2	99.5						99.8	87.2	64.9	87.9
GE	30	71.1	74.7	92.7	99.9						100.0	93.9	78.5	92.5
GE	25	85.3	89.6	99.0	100.0							99.3	92.3	97.1
GE	20	92.7	95.8	99.6								100.0	97.9	98.8
GE	15	97.2	97.9	100.0									99.8	99.6
GE	10	99.7	99.6										100.0	99.9
GE	5	100.0	99.9											100.0
GE	0		100.0											100.0
MEAN		32.6	34.3	39.9	46.0	53.4	59.0	62.3	61.8	57.1	49.2	39.9	35.0	47.5
SD		7.80	8.02	6.82	6.64	6.77	6.41	6.39	5.71	5.71	6.14	6.44	7.18	12.57
TOTAL OBS		1137	1045	1116	1050	1120	1101	1101	1104	1065	1131	1090	1129	13189

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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
53					87*	82	81	87	83	70	56	58	87*
54	50	47	63	65	81	84	76	85	80	68	57	51	85
55	48	47	63	79	78	81	86	82	75	66	66	52	86
56	47	40	65	66	83	73	85	78	75	71	51	51	85
57	52	57	63	71	75	90	94	79	76	67	55	48	94
58	50	59	61	63	77	79	81	82	81	63	51	51	82
59	51	60	64	75	78	85	91	86	85	72	59	49	91
60	52	61	61	69	74	85	73	79	73	65	55	48	85
61	49	59	66	71	71	82	84	84	81	71	50	56	84
62	48	45	51	73	75	80	81	83	84	74	58	49	84
63	34	36	53	67	75	73	81	85	75	63	62	44	85
64	41	57	56	69	79	85	93	88	81	65	53	47	93
65	47	39	65	63	78	83	81	79	72	67	57	52	83
66	51	58	57	68	79	84	80	88	79	74	56	49	88
67	51	51	56	68	79	83	86	81	77	70	52	50	86
68	49	45	72	81	74	81	88	76	72	67	61*	44*	88*
69	49*	49	58	72*	83*	76*	88*	85	77*	69*	56*	38	88*
70	47	49	52	59*	72	83	84	85	76	72	59	51	85*
71	49	47	52	76	79	76	90*	88*	74*	68*	54	54	90*
72	47	54	65	68	72	83	88	80	73	68	60	51	88
73	44	42	64	66	73	86	87	86	87	71	57	48	87
74	51	51	62	68	71	75	78	87	78	50	53	53	87
75	53	51	55	71	69	82	84	86	77	57	53	44	86
76	48	51	59	66	78	89	91	82	73	71	55	44	91
77	51	57	62	64	73	86	84	78	73	68	59	57	86
78	46	55	57	64	73	78	87	80	71	69	50	51	87
79	37	44	50	66	80	80	82	80	77	77	54	54	82
80	46	52	57	70	70	79	82	84	75	59	54	52	84
81	46	46	64	73	79	81	81	84	73	64	57	46	84
82	48	50	61	70	82	88	90	82	84	63	55	52	90
83	52	46	55	66	73	82	93	86	77	72	57	52	93
84	48	46	54	72	70	81	88*			64	57	46	88*
85	46	54	54	73	82	82	93	86	81	79	64	57	93

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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MAXIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
86	54	41	61	63	79	88	86	95	73	73	63	55	95
87	50	48	52	73	73	88	82	88	86	64	55	54	88
88	48	46	55	73	79	79	84	88	75	68	54	52	88
89	48	52	73	64	79	81	90	84	77	68	54	59	90
90	50	63											63*
GREATEST	54	63	73	81	87	90	94	95	87	79	66	59	95
TOTAL OBS	1137	1045	1116	1050	1120	1102	1101	1104	1065	1131	1090	1129	13190

THE GREATEST VALUE OF 95 OCCURRED ON 08/03/86

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

E - 3 - 1B

OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
53					42*	40	49	44	37	31	26	21	21*
54	1	0	22	28	35	41	41	46	35	31	23	27	0
55	16	1	10	28	32	40	48	45	38	28	23	20	1
56	0	-3	22	24	34	37	49	38	44	29	18	20	-3
57	17	25	27	28	30	41	47	40	35	30	25	22	17
58	14	15	16	24	35	41	46	45	44	32	29	19	14
59	15	19	28	32	35	40	52	45	44	30	26	25	15
60	4	17	26	31	31	43	40	47	39	33	29	15	4
61	18	29	26	40	35	44	41	43	46	32	22	12	12
62	16	20	18	30	30	35	40	45	36	31	21	7	7
63	3	9	20	29	33	41	46	44	37	27	30	11	3
64	13	20	19	26	37	35	40	42	34	29	26	14	13
65	21	10	14	27	33	40	43	39	40	34	17	21	10
66	8	30	26	29	36	41	45	41	38	28	22	23	8
67	10	20	27	26	30	42	48	46	39	31	22	14	10
68	-3	19	24	28	33	43	44	42	42	32	23*	10*	-3*
69	26*	9	24	28*	35*	42*	48*	42	39*	35*	26*	15	9*
70	17	10	17	33*	28	42	41	46	43	32	28	10	10*
71	7	18	9	31	38	43	44*	55*	46*	33*	20	22	7*
72	11	11	22	31	38	38	49	44	37	26	28	17	11
73	17	21	26	26	37	44	50	46	41	30	19	12	12
74	26	26	21	33	35	37	44	46	39	28	21	26	21
75	28	24	26	26	37	37	44	46	46	30	21	17	17
76	10	19	15	28	33	39	48	44	41	35	30	5	5
77	21	21	21	26	35	42	42	44	39	33	19	19	19
78	23	10	28	28	37	39	41	41	35	32	24	10	10
79	5	19	26	28	30	41	44	39	34	34	23	27	5
80	12	27	28	30	36	45	39	39	39	32	23	10	10
81	16	18	27	30	30	43	48	43	36	30	21	16	16
82	10	18	28	30	34	45	48	45	43	30	27	19	10
83	19	18	27	28	37	39	43	48	36	28	16	21	16
84	23	18	19	28	34	41	39*			34	28	21	18*
85	5	7	25	32	37	39	45	43	34	25	19	18	5

ERATING LOCATION 'A'
AFETAC, ASHEVILLE NC

MONTHLY MINIMUM TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

ATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

AR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
86	12	5	19	21	37	41	45	43	37	30	25	16	5
87	3	12	10	27	32	41	43	41	37	36	25	12	3
88	27	25	19	28	36	41	46	48	41	32	18	27	18
89	23	25	28	34	34	41	46	45	41	34	19	21	19
90	25	28											25*
AST	-3	-3	9	21	28	35	39	38	34	25	16	5	-3
TAL OBS	1137	1045	1116	1050	1120	1102	1101	1104	1065	1131	1090	1129	13190

THE LEAST VALUE OF -3 OCCURRED ON 02/01/56

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

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OPERATING LOCATION 'A'
USAFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

STATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
53					63*	61	62	62	57	51	40	38	54*
54	27	30	42	44	54	59	58	60	55	50	41	38	46
55	30	30	34	47	51	59	64	64	57	47	40	37	47
56	33	16	41	44	55	55	62	58	59	47	37	38	45
57	32	40	46	48	50	62	64	59	54	48	40	33	48
58	33	37	34	42	55	57	63	63	59	48	40	38	47
59	33	36	45	50	56	61	68	63	61	51	40	38	50
60	33	36	43	47	56	61	58	60	55	49	43	33	48
61	33	42	44	51	50	59	58	60	62	51	39	34	49
62	36	33	34	46	48	57	58	61	54	49	37	29	45
63	20	25	39	48	52	58	63	59	56	46	46	28	45
64	30	37	36	47	56	60	64	61	56	44	40	31	47
65	33	29	39	44	52	58	57	58	53	49	36	38	46
66	31	45	39	49	55	62	59	60	58	53	35	36	48
67	35	38	41	44	53	58	66	61	56	52	38	32	48
68	31	34	40	49	51	58	61	60	55	51	39*	31*	47*
69	38*	30	38	47*	56*	58*	69*	61	59*	51*	41*	27	47*
70	32	33	35	44*	54	64	61	65	60	49	44	34	48*
71	32	36	36	51	58	57	69*	69*	60*	53*	39	38	49*
72	32	40	44	47	53	58	65	60	53	47	40	35	48
73	33	34	41	43	55	62	64	67	60	48	38	34	48
74	38	37	41	47	50	55	58	63	55	41	40	40	47
75	40	37	38	44	51	58	62	66	59	46	38	33	48
76	35	34	35	44	54	65	67	63	56	53	43	31	48
77	35	42	44	42	52	59	62	60	54	51	42	37	48
78	34	32	42	44	52	56	59	60	55	48	37	35	46
79	24	32	39	44	52	60	60	57	56	51	40	39	46
80	31	40	41	45	52	57	58	61	57	46	38	33	47
81	32	31	44	46	54	58	61	62	57	46	41	32	47
82	30	35	41	45	55	62	66	62	61	49	43	36	49
83	38	31	41	47	50	60	69	66	56	48	39	35	48
84	35	34	38	44	50	56	58*			51	43	37	44*
85	25	30	39	49	57	56	64	60	59	50	34	37	47

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ERATING LOCATION 'A'
AFETAC, ASHEVILLE NC

MONTHLY MEAN TEMPERATURES IN FAHRENHEIT
FROM SUMMARY OF DAY DATA

ATION NUMBER: 106070 STATION NAME: SPANGDAHLEM AB GERMANY PERIOD OF RECORD: 5305-9002
LST TO UTC: -01 MONTH: ALL HOURS: ALL

AR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
86	36	25	40	42	56	63	64	64	55	53	44	37	49
87	25	33	34	48	48	56	62	61	62	49	39	35	46
88	38	36	40	47	57	60	62	65	58	53	40	41	50
89	37	37	47	47	58	59	64	64	58	51	40	39	50
90	38	44											41*
EAN	32.6	34.3	39.9	46.0	53.4	59.0	62.3	61.8	57.1	49.2	39.9	35.0	47.5
OTAL OBS	1137	1045	1116	1050	1120	1101	1101	1104	1065	1131	1090	1129	13189

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

E - 4 - 1B

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	31.8	8.504	917	0	435	0	0	0	917
03-05	31.3	8.752	921	0	461	0	0	0	921
06-08	31.0	8.859	924	0	481	0	0	0	924
09-11	31.8	8.573	924	0	457	0	0	0	924
12-14	34.0	7.838	923	0	358	0	0	0	923
15-17	34.4	7.785	924	0	324	0	0	0	924
18-20	33.2	8.075	917	0	364	0	0	0	917
21-23	32.2	8.339	918	0	427	0	0	0	918
ALL HOURS	32.5	8.370	7368	0	3307	0	0	0	7368

MONTH: FEB

00-02	31.3	7.537	849	0	467	0	0	0	849
03-05	30.5	8.030	849	0	485	0	0	0	849
06-08	29.9	8.200	849	0	500	0	0	0	849
09-11	31.7	7.403	849	0	452	0	0	0	849
12-14	35.4	6.620	849	0	283	0	0	0	849
15-17	36.5	6.614	849	0	227	0	0	0	849
18-20	34.0	6.774	849	0	352	0	0	0	849
21-23	32.4	7.073	849	0	418	0	0	0	849
ALL HOURS	32.7	7.656	6792	0	3184	0	0	0	6792

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	37.5	6.494	930	0	197	0	0	0	930
03-05	36.4	6.788	930	0	258	0	0	0	930
06-08	36.0	6.988	930	0	281	0	0	0	930
09-11	39.3	6.554	930	0	119	0	0	0	930
12-14	43.5	6.879	930	0	25	10	0	0	930
15-17	44.6	7.220	930	0	18	12	0	0	930
18-20	41.7	6.906	929	0	70	5	0	0	929
21-23	39.2	6.367	930	0	126	0	0	0	930
ALL HOURS	39.8	7.381	7439	0	1094	27	0	0	7439

MONTH: APR

00-02	42.2	6.191	900	0	40	0	0	0	900
03-05	40.5	6.094	900	0	93	0	0	0	900
06-08	40.8	5.974	900	0	69	0	0	0	900
09-11	46.5	7.330	900	0	15	6	0	0	900
12-14	50.9	8.655	900	0	5	58	0	0	900
15-17	51.6	8.903	900	0	2	72	0	0	900
18-20	48.6	8.046	900	0	8	19	0	0	900
21-23	44.7	6.795	900	0	20	0	0	0	900
ALL HOURS	45.7	8.431	7200	0	252	155	0	0	7200

E - 5 - 1 - 2

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	49.2	6.442	930	0	0	2	0	0	930
03-05	47.1	6.178	930	0	7	0	0	0	930
06-08	48.9	6.468	930	0	1	4	0	0	930
09-11	54.9	7.840	930	0	0	92	0	0	930
12-14	58.9	8.961	930	0	0	231	5	0	930
15-17	59.9	9.191	930	0	0	273	10	0	930
18-20	57.0	8.492	930	0	0	170	3	0	930
21-23	52.1	7.114	930	0	0	30	0	0	930
ALL HOURS	53.5	8.887	7440	0	8	802	18	0	7440

MONTH: JUN

00-02	53.8	6.057	900	0	0	41	0	0	900
03-05	51.8	5.718	900	0	0	10	0	0	900
06-08	54.1	6.223	900	0	0	47	0	0	900
09-11	60.1	7.876	900	0	0	221	9	0	900
12-14	63.9	8.871	900	0	0	365	53	0	900
15-17	64.5	9.085	900	0	0	367	69	0	900
18-20	61.9	8.322	900	0	0	278	24	0	900
21-23	57.0	6.757	900	0	0	116	0	0	900
ALL HOURS	58.4	8.786	7200	0	0	1445	155	0	7200

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	58.0	5.617	840	0	0	86	0	0	840
03-05	55.9	5.496	840	0	0	42	0	0	840
06-08	57.9	5.964	858	0	0	100	0	0	858
09-11	64.7	7.576	858	0	0	371	30	0	858
12-14	69.0	8.619	858	0	0	541	103	0	858
15-17	70.3	8.864	857	0	0	590	155	3	857
18-20	67.1	7.877	856	0	0	466	60	0	856
21-23	61.4	6.220	849	0	0	225	3	0	849
ALL HOURS	63.1	8.782	6816	0	0	2421	351	3	6816

MONTH: AUG

00-02	57.7	5.619	837	0	0	63	0	0	837
03-05	55.6	5.523	837	0	0	25	0	0	837
06-08	56.7	5.564	837	0	0	46	0	0	837
09-11	63.9	6.848	837	0	0	326	13	0	837
12-14	69.0	7.616	836	0	0	540	80	2	836
15-17	70.0	7.842	837	0	0	565	114	3	837
18-20	66.5	7.468	837	0	0	438	42	0	837
21-23	61.0	6.097	837	0	0	188	1	0	837
ALL HOURS	62.6	8.506	6695	0	0	2191	250	5	6695

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	53.8	5.617	810	0	0	17	0	0	810
03-05	52.0	5.955	815	0	0	12	0	0	815
06-08	51.8	5.999	823	0	0	6	0	0	823
09-11	58.1	6.123	824	0	0	102	0	0	824
12-14	63.6	7.084	825	0	0	313	12	0	825
15-17	64.7	7.351	821	0	0	359	19	0	821
18-20	60.4	6.266	810	0	0	171	1	0	810
21-23	56.2	5.442	810	0	0	48	0	0	810
ALL HOURS	57.6	7.800	6538	0	0	1028	32	0	6538

MONTH: OCT

00-02	46.9	6.359	905	0	13	0	0	0	905
03-05	46.1	6.496	910	0	30	0	0	0	910
06-08	45.7	6.589	926	0	32	0	0	0	926
09-11	49.1	6.483	930	0	8	9	0	0	930
12-14	53.4	6.809	930	0	0	51	0	0	930
15-17	53.7	6.898	930	0	0	61	0	0	930
18-20	50.2	6.239	930	0	2	11	0	0	930
21-23	48.2	6.205	928	0	6	3	0	0	928
ALL HOURS	49.2	7.158	7389	0	91	135	0	0	7389

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	38.5	7.697	869	0	206	0	0	0	869
03-05	37.9	7.836	871	0	226	0	0	0	871
06-08	37.4	8.053	876	0	248	0	0	0	876
09-11	39.2	7.684	885	0	181	0	0	0	885
12-14	42.4	7.442	884	0	87	0	0	0	884
15-17	42.5	7.457	884	0	89	0	0	0	884
18-20	40.2	7.215	871	0	140	0	0	0	871
21-23	39.0	7.487	867	0	191	0	0	0	867
ALL HOURS	39.7	7.813	7007	0	1368	0	0	0	7007

MONTH: DEC

00-02	35.4	7.470	880	0	317	0	0	0	880
03-05	35.1	7.638	886	0	327	0	0	0	886
06-08	34.8	7.641	892	0	332	0	0	0	892
09-11	35.4	7.229	902	0	313	0	0	0	902
12-14	37.4	7.000	904	0	232	0	0	0	904
15-17	37.4	6.942	900	0	233	0	0	0	900
18-20	36.3	7.097	870	0	264	0	0	0	870
21-23	35.8	7.376	870	0	290	0	0	0	870
ALL HOURS	36.0	7.396	7104	0	2308	0	0	0	7104

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DRY BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 0	LE 32	GE 65	GE 80	GE 93	TOTAL HOURS
00-02	44.5	11.502	10567	0	1675	209	0	0	10567
03-05	43.2	11.112	10589	0	1887	89	0	0	10589
06-08	43.6	11.832	10645	0	1944	203	0	0	10645
09-11	47.7	13.827	10669	0	1545	1127	52	0	10669
12-14	51.6	14.653	10669	0	990	2109	253	2	10669
15-17	52.3	14.903	10662	0	893	2299	367	6	10662
18-20	49.6	14.134	10599	0	1200	1558	130	0	10599
21-23	46.5	12.391	10588	0	1478	610	4	0	10588
ALL HOURS	47.4	13.534	84988	0	11612	8204	806	8	84988

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	30.1	8.154	917	555	0	0	0	0	917
03-05	29.7	8.364	921	567	1	0	0	0	921
06-08	29.4	8.548	924	567	0	0	0	0	924
09-11	30.1	8.281	924	558	0	0	0	0	924
12-14	31.9	7.579	923	460	0	0	0	0	923
15-17	32.1	7.478	924	446	3	0	0	0	924
18-20	31.2	7.764	917	490	3	0	0	0	917
21-23	30.5	8.025	918	548	1	0	0	0	918
ALL HOURS	30.6	8.079	7368	4191	8	0	0	0	7368

MONTH: FEB

00-02	29.2	7.604	849	554	0	0	0	0	849
03-05	28.5	7.943	849	571	0	0	0	0	849
06-08	28.0	8.099	849	594	0	0	0	0	849
09-11	29.4	7.362	849	537	0	0	0	0	849
12-14	32.2	6.555	849	441	2	0	0	0	849
15-17	32.8	6.515	849	421	3	0	0	0	849
18-20	31.1	6.932	849	476	3	0	0	0	849
21-23	30.0	7.271	849	523	3	0	0	0	849
ALL HOURS	30.1	7.488	6792	4117	11	0	0	0	6792

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	35.1	6.415	930	294	15	0	0	0	930
03-05	34.2	6.689	930	357	12	0	0	0	930
06-08	34.0	6.880	930	374	13	0	0	0	930
09-11	36.5	6.281	930	233	25	0	0	0	930
12-14	39.1	6.037	930	121	50	0	0	0	930
15-17	39.6	6.015	930	113	49	0	0	0	930
18-20	37.8	6.203	929	178	37	0	0	0	929
21-23	36.2	6.212	930	244	23	0	0	0	930
ALL HOURS	36.6	6.661	7439	1914	224	0	0	0	7439

MONTH: APR

00-02	38.8	5.744	900	124	40	0	0	0	900
03-05	37.7	5.814	900	164	26	0	0	0	900
06-08	38.0	5.670	900	151	26	0	0	0	900
09-11	41.7	6.033	900	41	105	0	0	0	900
12-14	44.0	6.306	899	16	196	0	0	0	899
15-17	44.1	6.244	899	17	209	0	0	0	899
18-20	42.5	5.995	900	30	127	0	0	0	900
21-23	40.4	5.775	900	71	60	0	0	0	900
ALL HOURS	40.9	6.447	7198	614	789	0	0	0	7198

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	45.9	5.812	930	5	268	0	0	0	930
03-05	44.5	5.790	930	19	200	0	0	0	930
06-08	45.9	5.805	930	9	264	0	0	0	930
09-11	49.4	6.170	929	0	481	0	0	0	929
12-14	51.[illegible]	6.313	930	0	562	1	0	0	930
15-17	51.4	6.244	930	0	577	2	0	0	930
18-20	50.1	6.218	930	0	504	0	0	0	930
21-23	47.6	5.949	930	0	366	0	0	0	930
ALL HOURS	48.2	6.484	7439	33	3222	3	0	0	7439

MONTH: JUN

00-02	50.9	5.370	900	0	507	3	0	0	900
03-05	49.5	5.252	900	0	429	1	0	0	900
06-08	51.2	5.464	900	0	532	4	0	0	900
09-11	54.5	5.971	900	0	708	29	1	0	900
12-14	55.9	6.172	900	0	761	46	4	0	900
15-17	56.1	6.013	900	0	771	43	4	0	900
18-20	55.0	5.880	900	0	738	31	1	0	900
21-23	52.8	5.551	900	0	622	9	0	0	900
ALL HOURS	53.2	6.139	7200	0	5068	166	10	0	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	54.7	4.736	840	0	723	0	0	0	840
03-05	53.5	5.014	840	0	665	0	0	0	840
06-08	54.8	4.922	858	0	734	3	0	0	858
09-11	58.3	5.065	858	0	831	45	0	0	858
12-14	59.7	5.101	858	0	852	98	0	0	858
15-17	60.2	4.912	857	0	853	100	1	0	857
18-20	59.0	4.752	856	0	848	49	0	0	856
21-23	56.5	4.580	849	0	804	10	0	0	849
ALL HOURS	57.1	5.483	6816	0	6310	305	1	0	6816

MONTH: AUG

00-02	54.5	4.859	837	0	696	1	0	0	837
03-05	53.1	5.076	837	0	650	1	0	0	837
06-08	53.9	4.919	837	0	687	1	0	0	837
09-11	58.0	4.859	837	0	815	31	0	0	837
12-14	59.7	4.909	836	0	829	62	3	0	836
15-17	60.0	4.826	837	0	835	71	0	0	837
18-20	58.7	4.967	837	0	813	45	0	0	837
21-23	56.3	4.859	837	0	753	8	0	0	837
ALL HOURS	56.8	5.543	6695	0	6078	220	3	0	6695

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	51.0	5.272	810	0	506	0	0	0	810
03-05	49.6	5.536	815	0	439	0	0	0	815
06-08	49.4	5.643	823	0	430	0	0	0	823
09-11	53.7	5.103	824	0	658	4	0	0	824
12-14	56.2	5.187	825	0	753	22	0	0	825
15-17	56.5	5.301	821	0	744	26	0	0	821
18-20	54.7	5.235	810	0	676	8	0	0	810
21-23	52.5	5.105	810	0	589	0	0	0	810
ALL HOURS	53.0	5.915	6538	0	4795	60	0	0	6538

MONTH: OCT

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	44.5	6.177	905	26	214	0	0	0	905
03-05	43.8	6.388	910	51	179	0	0	0	910
06-08	43.5	6.364	926	59	170	0	0	0	926
09-11	46.1	5.905	930	12	276	0	0	0	930
12-14	48.6	5.790	930	3	389	0	0	0	930
15-17	48.8	5.924	930	3	399	0	0	0	930
18-20	46.7	5.828	930	3	304	0	0	0	930
21-23	45.4	5.986	928	10	253	0	0	0	928
ALL HOURS	45.9	6.319	7389	167	2184	0	0	0	7389

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
00-02	36.7	7.594	869	275	41	0	0	0	869
03-05	36.2	7.702	871	300	28	0	0	0	871
06-08	35.8	7.870	876	317	24	0	0	0	876
09-11	37.3	7.567	885	252	43	0	0	0	885
12-14	39.6	7.255	884	166	79	0	0	0	884
15-17	39.6	7.273	884	168	88	0	0	0	884
18-20	37.9	7.185	871	219	39	0	0	0	871
21-23	37.0	7.406	867	267	42	0	0	0	867
ALL HOURS	37.5	7.592	7007	1964	384	0	0	0	7007

MONTH: DEC

00-02	33.7	7.344	880	392	11	0	0	0	880
03-05	33.4	7.488	886	405	9	0	0	0	886
06-08	33.1	7.485	892	407	6	0	0	0	892
09-11	33.6	7.049	901	393	6	0	0	0	901
12-14	35.2	6.658	903	304	9	0	0	0	903
15-17	35.2	6.650	900	317	11	0	0	0	900
18-20	34.4	6.948	870	349	13	0	0	0	870
21-23	34.1	7.277	870	358	7	0	0	0	870
ALL HOURS	34.1	7.146	7102	2925	72	0	0	0	7102

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ERATING LOCATION "A"
AFETAC, ASHEVILLE NC

WET BULB TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

ATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: ALL

URS ST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 32	GE 50	GE 67	GE 73	GE 80	TOTAL HOURS
-02	41.9	10.938	10567	2225	3021	4	0	0	10567
-05	41.0	10.783	10589	2434	2638	2	0	0	10589
-08	41.3	11.271	10645	2478	2886	8	0	0	10645
-11	43.9	12.017	10667	2026	3948	109	1	0	10667
-14	45.9	11.773	10667	1511	4482	229	7	0	10667
-17	46.2	11.755	10661	1485	4542	242	5	0	10661
-20	44.8	11.769	10599	1745	4105	133	1	0	10599
-23	43.1	11.263	10588	2021	3523	27	0	0	10588
LL URS	43.5	11.611	84983	15925	29145	754	14	0	84983

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	26.8	9.085	917	455	111	917	0	917
03-05	26.5	9.346	921	460	119	921	0	921
06-08	26.3	9.542	924	458	112	924	0	924
09-11	26.8	9.358	924	456	119	924	0	924
12-14	28.1	8.908	923	398	150	923	0	923
15-17	28.2	8.874	924	383	150	924	0	924
18-20	27.5	8.970	917	419	125	917	0	917
21-23	27.1	8.971	918	453	113	918	0	918
ALL HOURS	27.2	9.176	7368	3482	999	7368	0	7368

MONTH: FEB

00-02	24.7	9.746	849	495	101	849	0	849
03-05	24.2	9.813	849	505	88	849	0	849
06-08	23.8	9.884	849	508	79	849	0	849
09-11	24.8	9.391	849	487	86	849	0	849
12-14	26.3	9.164	849	448	111	849	0	849
15-17	26.4	9.424	849	449	131	849	0	849
18-20	25.6	9.614	849	456	106	849	0	849
21-23	25.1	9.705	849	482	103	849	0	849
ALL HOURS	25.1	9.659	6792	3830	805	6792	0	6792

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	31.2	7.982	930	275	222	930	0	930
03-05	30.7	8.111	930	290	206	930	0	930
06-08	30.8	8.238	930	290	209	930	0	930
09-11	32.4	7.848	930	243	281	930	0	930
12-14	33.3	7.928	930	214	330	930	0	930
15-17	32.9	8.009	930	229	331	930	0	930
18-20	32.3	8.031	929	249	289	929	0	929
21-23	31.8	7.871	930	258	242	929	0	930
ALL HOURS	31.9	8.080	7439	2048	2110	7438	0	7439

MONTH: APR

00-02	34.4	7.296	900	167	343	900	0	899
03-05	33.8	7.176	900	176	322	900	0	899
06-08	34.2	7.011	900	173	351	900	0	899
09-11	36.0	7.296	900	119	453	900	0	899
12-14	36.0	7.445	899	125	424	899	0	899
15-17	35.6	7.209	899	125	413	899	0	899
18-20	35.2	7.237	900	137	389	900	0	899
21-23	34.9	7.314	900	144	363	900	0	899
ALL HOURS	35.0	7.323	7198	1166	3058	7198	0	7198

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	42.6	6.657	930	12	762	927	0	930
03-05	41.9	6.636	930	21	736	927	0	930
06-08	43.0	6.521	930	13	772	921	0	930
09-11	44.4	6.816	929	22	801	913	0	929
12-14	44.0	7.110	930	20	790	916	0	930
15-17	43.8	7.027	930	19	779	909	0	930
18-20	43.6	7.084	930	14	759	911	0	930
21-23	43.1	6.825	930	8	767	923	0	930
ALL HOURS	43.3	6.906	7439	129	6166	7347	0	7439

MONTH: JUN

00-02	48.4	5.665	900	0	888	820	3	900
03-05	47.6	5.596	900	0	891	843	3	900
06-08	48.9	5.601	900	0	898	800	3	900
09-11	50.0	6.315	900	0	894	764	12	900
12-14	49.6	6.599	900	0	885	758	19	900
15-17	49.5	6.498	900	0	887	769	15	900
18-20	49.6	6.470	900	0	887	770	11	900
21-23	49.3	6.019	900	0	891	779	4	900
ALL HOURS	49.1	6.191	7200	0	7121	6303	70	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	52.2	5.006	840	0	840	671	0	840
03-05	51.6	5.215	840	0	839	693	0	840
06-08	52.5	5.047	858	0	858	672	0	858
09-11	53.7	5.234	858	0	858	607	2	858
12-14	53.2	5.296	858	0	858	627	8	858
15-17	53.1	5.271	857	0	857	633	12	857
18-20	53.2	5.082	856	0	856	632	10	856
21-23	52.8	4.874	849	0	849	663	3	849
ALL HOURS	52.8	5.214	6816	0	6815	5198	35	6816

MONTH: AUG

00-02	52.1	5.055	837	0	837	645	0	836
03-05	51.3	5.138	837	0	837	680	1	836
06-08	51.9	4.968	837	0	837	677	0	836
09-11	53.7	5.043	837	0	837	565	1	836
12-14	53.1	5.537	836	0	836	571	4	836
15-17	52.9	5.672	837	0	837	580	4	836
18-20	53.0	5.703	837	0	837	583	1	836
21-23	52.7	5.278	837	0	837	618	1	836
ALL HOURS	52.6	5.394	6695	0	6695	4919	12	6695

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	48.6	5.734	810	0	796	736	0	810
03-05	47.6	5.799	815	0	792	766	0	815
06-08	47.5	5.931	823	0	792	769	0	823
09-11	50.2	5.528	824	0	823	691	0	824
12-14	50.4	6.358	825	0	811	683	1	825
15-17	50.0	6.661	821	0	803	690	5	821
18-20	50.1	6.412	810	0	790	692	3	810
21-23	49.5	5.873	810	0	796	705	0	810
ALL HOURS	49.2	6.169	6538	0	6403	5732	9	6538

MONTH: OCT

00-02	41.9	6.892	905	18	708	899	0	930
03-05	41.5	7.003	910	34	694	906	0	930
06-08	41.3	6.995	926	39	704	923	0	930
09-11	43.1	6.392	930	8	791	915	0	930
12-14	44.2	6.526	930	7	816	908	0	930
15-17	44.0	6.871	930	6	800	899	0	930
18-20	43.3	6.783	930	12	784	912	0	930
21-23	42.6	6.782	928	16	752	918	0	930
ALL HOURS	42.7	6.891	7389	140	6049	7280	0	7389

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	34.0	8.654	869	219	352	869	0	869
03-05	33.6	8.777	871	228	353	871	0	871
06-08	33.3	8.963	876	235	341	876	0	876
09-11	34.5	8.782	885	203	379	885	0	885
12-14	35.9	8.792	884	164	460	884	0	884
15-17	35.7	8.803	884	181	439	884	0	884
18-20	34.8	8.485	871	191	380	871	0	871
21-23	34.1	8.614	867	214	350	867	0	867
ALL HOURS	34.5	8.801	7007	1635	3054	7007	0	7007

MONTH: DEC

00-02	30.7	8.581	880	281	232	880	0	903
03-05	30.5	8.736	886	300	237	886	0	903
06-08	30.3	8.654	892	305	232	892	0	903
09-11	30.7	8.151	901	298	235	901	0	903
12-14	31.8	7.804	903	244	274	903	0	903
15-17	31.8	7.903	900	255	266	900	0	903
18-20	31.3	8.205	870	270	237	870	0	903
21-23	31.1	8.470	870	276	245	870	0	903
ALL HOURS	31.0	8.357	7102	2229	1958	7102	0	7102

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

DEW POINT TEMPERATURE SUMMARY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: ALL

HOURS LST	MEAN	STANDARD DEVIATION	TOTAL OBS	MEAN NUMBER OF HOURS WITH TEMPERATURES DEG F LE 27	GE 37	LE 55	GE 65	TOTAL HOURS
00-02	38.8	11.969	10567	1922	6192	10043	3	10567
03-05	38.2	11.883	10589	2014	6114	10172	4	10589
06-08	38.5	12.204	10645	2021	6185	10133	3	10645
09-11	39.9	12.359	10667	1836	6557	9844	15	10667
12-14	40.3	11.887	10667	1620	6745	9851	32	10667
15-17	40.2	11.874	10661	1647	6693	9866	36	10661
18-20	39.8	12.110	10599	1748	6439	9836	25	10599
21-23	39.4	12.072	10588	1851	6308	9939	8	10588
ALL HOURS	39.4	12.069	84983	14659	51233	79684	126	84983

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	100.0	99.6	98.0	87.9	55.6	19.0	80.6	917
03-05	100.0	100.0	100.0	100.0	99.7	97.9	89.1	58.4	19.9	81.2	921
06-08	100.0	100.0	100.0	100.0	99.7	97.5	89.5	59.2	20.2	81.3	924
09-11	100.0	100.0	100.0	100.0	99.5	97.6	86.3	56.2	17.6	80.4	924
12-14	100.0	100.0	99.9	99.8	98.4	94.1	80.2	48.2	14.7	78.1	923
15-17	100.0	100.0	99.9	99.7	98.3	93.8	76.4	46.2	12.6	77.1	924
18-20	100.0	100.0	100.0	99.9	99.0	96.3	83.0	48.5	16.0	78.8	917
21-23	100.0	100.0	100.0	100.0	99.5	97.8	86.2	52.9	20.3	80.2	918
ALL HOURS	100.0	100.0	100.0	99.9	99.2	96.6	84.8	53.2	17.5	79.7	7368

MONTH: FEB

00-02	100.0	100.0	100.0	99.2	95.8	85.7	71.4	39.1	15.0	75.2	849
03-05	100.0	100.0	100.0	99.5	97.4	88.6	72.6	38.2	16.4	75.9	849
06-08	100.0	100.0	100.0	99.8	98.1	91.8	74.6	38.9	16.1	76.4	849
09-11	100.0	100.0	99.9	99.4	94.7	86.5	68.6	35.9	13.7	74.3	849
12-14	100.0	100.0	99.4	95.1	88.0	72.8	50.3	28.0	10.5	68.7	849
15-17	100.0	100.0	98.0	93.6	82.9	65.7	43.5	27.6	9.3	66.4	849
18-20	100.0	100.0	98.8	97.4	89.3	77.5	54.1	33.3	11.9	70.6	849
21-23	100.0	100.0	99.4	98.2	93.9	84.3	64.2	36.5	13.4	73.4	849
ALL HOURS	100.0	100.0	99.4	97.8	92.5	81.6	62.4	34.7	13.3	72.6	6792

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	99.8	99.7	98.0	91.5	74.5	49.4	18.5	77.5	930
03-05	100.0	100.0	99.9	99.7	98.9	94.2	79.0	56.7	20.2	79.4	930
06-08	100.0	100.0	100.0	99.7	98.8	95.3	82.7	59.7	24.6	80.7	930
09-11	100.0	100.0	100.0	99.5	95.9	87.0	69.8	48.0	16.1	76.3	930
12-14	100.0	100.0	99.4	95.2	85.4	68.9	50.5	29.5	6.5	68.0	930
15-17	100.0	99.8	98.5	93.1	79.8	60.3	42.3	23.8	5.8	64.7	930
18-20	100.0	100.0	99.6	97.3	89.0	72.6	54.3	32.8	9.9	69.9	929
21-23	100.0	100.0	100.0	99.9	95.9	84.3	66.3	41.7	14.5	74.7	930
ALL HOURS	100.0	100.0	99.6	98.0	92.7	81.8	64.9	42.7	14.5	73.9	7439

MONTH: APR

00-02	100.0	100.0	100.0	99.3	94.2	82.0	64.4	42.6	14.2	74.2	900
03-05	100.0	100.0	100.0	99.7	96.6	88.0	72.4	50.6	16.7	76.9	900
06-08	100.0	100.0	100.0	99.9	97.2	88.9	74.0	53.9	16.7	77.6	900
09-11	100.0	100.0	99.8	94.9	84.8	70.8	50.3	30.7	8.8	68.4	900
12-14	100.0	100.0	97.9	84.4	66.4	47.6	30.6	15.9	3.9	59.0	899
15-17	100.0	100.0	96.2	78.8	62.0	42.6	26.1	14.7	2.9	56.7	899
18-20	100.0	100.0	98.8	85.6	72.9	54.8	36.9	20.8	5.1	62.0	900
21-23	100.0	100.0	99.9	96.9	86.2	72.1	53.4	32.1	9.6	69.5	900
ALL HOURS	100.0	100.0	99.1	92.4	82.5	68.4	51.0	32.6	9.7	68.0	7198

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAY

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	100.0	97.6	90.2	78.8	56.1	18.3	78.7	930
03-05	100.0	100.0	100.0	100.0	99.7	94.9	86.5	71.2	25.6	82.6	930
06-08	100.0	100.0	100.0	99.9	99.2	92.3	83.1	63.1	22.5	80.6	930
09-11	100.0	100.0	99.9	98.0	89.6	71.9	51.7	29.9	8.4	69.5	929
12-14	100.0	100.0	99.2	89.7	70.0	45.3	30.0	16.7	2.6	60.0	930
15-17	100.0	100.0	98.1	86.1	63.8	41.3	26.2	13.7	1.7	57.6	930
18-20	100.0	100.0	99.1	92.5	76.9	52.6	36.7	21.8	4.4	63.0	930
21-23	100.0	100.0	100.0	99.5	93.8	78.5	59.9	39.0	10.9	72.7	930
ALL HOURS	100.0	100.0	99.5	95.7	86.3	70.9	56.6	38.9	11.8	70.6	7439

MONTH: JUN

00-02	100.0	100.0	100.0	99.9	99.4	96.3	86.3	68.8	25.2	82.8	900
03-05	100.0	100.0	100.0	100.0	99.8	99.2	93.1	78.2	34.9	85.7	900
06-08	100.0	100.0	100.0	100.0	99.8	97.3	90.6	66.6	27.2	83.2	900
09-11	100.0	100.0	100.0	99.0	94.0	78.1	53.1	27.7	7.9	70.7	900
12-14	100.0	100.0	99.8	93.1	78.6	52.8	28.6	13.8	3.6	61.6	900
15-17	100.0	100.0	98.4	91.1	73.6	46.7	28.7	14.0	3.6	60.5	900
18-20	100.0	100.0	99.7	95.6	85.1	63.2	42.3	21.4	6.0	66.1	900
21-23	100.0	100.0	100.0	99.3	95.8	88.6	72.9	46.4	14.7	76.6	900
ALL HOURS	100.0	100.0	99.7	97.3	90.8	77.8	61.9	42.1	15.4	73.4	7200

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	100.0	99.4	97.3	85.7	63.8	20.8	82.0	840
03-05	100.0	100.0	100.0	100.0	100.0	99.5	94.6	78.1	31.1	85.7	840
06-08	100.0	100.0	100.0	100.0	100.0	98.1	87.6	67.2	24.6	83.0	858
09-11	100.0	100.0	100.0	99.2	92.3	71.8	45.5	24.8	9.2	69.1	858
12-14	100.0	100.0	99.1	92.1	71.8	41.6	23.8	14.0	4.4	59.4	858
15-17	100.0	100.0	98.7	88.2	60.4	39.1	21.9	11.8	4.1	57.0	857
18-20	100.0	100.0	99.5	95.3	78.9	53.6	32.9	16.0	5.3	63.0	856
21-23	100.0	100.0	100.0	99.9	97.8	85.6	62.1	35.9	10.6	74.4	849
ALL HOURS	100.0	100.0	99.7	96.8	87.5	73.2	56.6	38.8	13.7	71.6	6816

MONTH: AUG

00-02	100.0	100.0	100.0	100.0	99.8	97.7	87.6	61.5	20.9	82.2	837
03-05	100.0	100.0	100.0	100.0	100.0	100.0	95.6	79.3	28.1	85.7	837
06-08	100.0	100.0	100.0	100.0	100.0	98.9	94.1	73.0	23.7	84.4	837
09-11	100.0	100.0	100.0	99.9	94.7	77.3	51.9	28.0	7.6	70.9	837
12-14	100.0	100.0	99.9	93.4	72.5	41.7	20.3	8.5	2.8	58.7	836
15-17	100.0	100.0	99.6	88.4	63.8	37.4	19.4	8.4	1.9	56.6	837
18-20	100.0	100.0	100.0	95.6	80.2	58.5	33.3	16.8	3.9	63.8	837
21-23	100.0	100.0	100.0	100.0	98.3	87.6	66.1	38.5	10.2	75.1	837
ALL HOURS	100.0	100.0	99.9	97.2	88.7	74.9	58.5	39.3	12.4	72.2	6695

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	99.9	99.8	98.9	93.7	71.4	18.6	83.0	810
03-05	100.0	100.0	100.0	100.0	100.0	99.8	98.0	79.6	27.0	85.3	815
06-08	100.0	100.0	100.0	100.0	100.0	100.0	98.1	79.3	25.8	85.4	823
09-11	100.0	100.0	100.0	100.0	98.7	89.9	69.9	39.9	9.7	75.8	824
12-14	100.0	100.0	99.5	96.6	82.3	58.8	33.6	15.4	2.7	63.7	825
15-17	100.0	100.0	99.5	93.9	75.2	48.6	28.1	15.6	3.2	61.1	821
18-20	100.0	100.0	100.0	98.3	92.8	77.3	52.3	27.5	5.3	70.1	810
21-23	100.0	100.0	100.0	99.8	99.4	95.1	82.1	51.9	10.7	78.8	810
ALL HOURS	100.0	100.0	99.9	98.5	93.5	83.5	69.4	47.5	12.9	75.4	6538

MONTH: OCT

00-02	100.0	100.0	100.0	100.0	99.6	98.6	95.5	72.5	16.7	82.9	905
03-05	100.0	100.0	100.0	100.0	99.5	99.2	96.7	76.4	24.2	84.1	910
06-08	100.0	100.0	100.0	100.0	100.0	99.6	97.1	75.5	26.5	84.3	926
09-11	100.0	100.0	100.0	99.8	99.1	96.7	88.5	61.3	16.0	80.5	930
12-14	100.0	100.0	99.7	99.4	95.4	82.0	60.6	34.0	4.3	72.0	930
15-17	100.0	100.0	99.7	99.0	94.5	80.1	54.5	29.7	5.6	70.7	930
18-20	100.0	100.0	100.0	99.6	98.6	95.2	79.9	48.5	8.0	77.4	930
21-23	100.0	100.0	100.0	99.9	99.1	98.7	92.1	65.2	12.1	81.2	928
ALL HOURS	100.0	100.0	99.9	99.7	98.2	93.7	83.0	57.8	14.1	79.1	7389

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	100.0	99.8	98.3	90.4	69.0	27.4	83.1	869
03-05	100.0	100.0	100.0	100.0	99.9	99.0	91.0	69.7	29.5	83.7	871
06-08	100.0	100.0	100.0	100.0	100.0	98.4	92.7	71.1	32.8	84.3	876
09-11	100.0	100.0	100.0	99.8	99.5	97.6	89.8	66.9	27.2	82.7	885
12-14	100.0	100.0	99.7	99.1	97.7	89.9	76.2	53.2	17.6	77.8	884
15-17	100.0	100.0	99.8	99.3	97.9	88.7	75.0	49.2	15.5	76.9	884
18-20	100.0	100.0	100.0	99.8	99.4	96.3	84.6	61.9	19.5	80.6	871
21-23	100.0	100.0	100.0	100.0	99.8	97.3	88.6	66.1	24.1	82.2	867
ALL HOURS	100.0	100.0	99.9	99.7	99.2	95.7	86.0	63.4	24.2	81.4	7007

MONTH: DEC

00-02	100.0	100.0	100.0	99.9	99.1	96.5	90.0	65.9	26.4	82.5	880
03-05	100.0	100.0	100.0	99.7	99.5	96.0	90.5	66.4	26.3	82.9	886
06-08	100.0	100.0	100.0	99.7	99.4	96.9	90.8	67.8	26.9	82.9	892
09-11	100.0	100.0	100.0	99.8	99.1	96.9	90.3	67.3	26.0	82.5	901
12-14	100.0	100.0	100.0	99.2	97.9	94.4	83.2	59.1	21.8	80.0	903
15-17	100.0	100.0	100.0	99.1	97.9	93.7	81.6	58.3	19.6	79.6	900
18-20	100.0	100.0	100.0	99.9	99.0	95.9	86.9	63.2	22.9	81.3	870
21-23	100.0	100.0	100.0	100.0	99.0	97.0	89.3	65.9	25.1	82.3	870
ALL HOURS	100.0	100.0	100.0	99.6	98.9	95.9	87.8	64.2	24.3	81.8	7102

E - 6 - 6

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: ALL

HOURS LST	RELATIVE HUMIDITY GREATER THAN OR EQUAL TO 10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN	TOTAL OBS
00-02	100.0	100.0	100.0	99.8	98.5	94.2	83.7	59.5	20.1	80.4	10567
03-05	100.0	100.0	100.0	99.9	99.2	96.3	88.2	66.8	24.9	82.4	10589
06-08	100.0	100.0	100.0	99.9	99.4	96.2	87.8	64.5	24.0	82.0	10645
09-11	100.0	100.0	100.0	99.1	95.2	85.2	68.2	43.3	14.1	75.2	10667
12-14	100.0	100.0	99.4	94.8	83.8	66.1	47.7	28.3	8.0	67.3	10667
15-17	100.0	100.0	98.9	92.6	79.4	61.8	44.0	26.3	7.2	65.5	10661
18-20	100.0	100.0	99.6	96.4	88.4	74.5	56.6	34.5	9.9	70.6	10599
21-23	100.0	100.0	99.9	99.4	96.5	88.9	73.6	47.7	14.7	76.7	10588
ALL HOURS	100.0	100.0	99.7	97.7	92.5	82.9	68.7	46.3	15.3	75.0	84983

E - 6 - 7

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PPPPPPPP        AAAAAA        RRRRRRRR        TTTTTTTTTT        FFFFFFFFFF
PPPPPPPPP      AAAAAAAA       RRRRRRRRR       TTTTTTTTTT        FFFFFFFFFF
PP      PP     AA      AA     RR      RR          TT            FF
PP      PP     AA      AA     RR      RR          TT            FF
PPPPPPPPP      AA      AA     RRRRRRRRR           TT            FFFFFF
PPPPPPPP       AAAAAAAAAA     RRRRRRRR            TT            FFFFFF
PP             AAAAAAAAAA     RR    RR            TT            FF
PP             AA      AA     RR     RR           TT            FF
PP             AA      AA     RR      RR          TT            FF
PP             AA      AA     RR       RR         TT            FF
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PART F

PRESSURE SUMMARIES

ALL PRESSURE DATA IN PART F IS TAKEN FROM HOURLY OBSERVATIONS. IT IS SUMMARIZED:

- BY EIGHT 3-HOUR STANDARD SYNOPTIC REPORTING TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).

- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).

- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).

SEA LEVEL PRESSURE.
IN MILLIBARS, TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS. THIS SUMMARY IS NOT AVAILABLE FOR METAR REPORTING SITES.

ALTIMETER SETTING.
IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS, AND TOTAL OBSERVATION COUNTS.

STATION PRESSURE.
IN INCHES OF MERCURY (HG), TABLES GIVE MEANS, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNTS.

PRESSURE CONVERSIONS ARE: 1 MILLIBAR = 0.02953 INCHES OF MERCURY (HG).

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

ALTIMETER SETTING IN INCHES
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0100	MEAN	30.03	30.05	29.93	29.96	29.96	30.03	30.06	30.04	30.10	30.04	30.05	30.01	30.02
	SD	.352	.347	.290	.231	.210	.165	.158	.143	.188	.285	.283	.395	.271
	TOT OBS	306	283	310	300	310	300	280	279	270	301	290	294	3523
0400	MEAN	30.02	30.03	29.92	29.95	29.95	30.01	30.05	30.03	30.09	30.03	30.04	30.00	30.[illegible]
	SD	.352	.347	.291	.232	.213	.166	.160	.145	.194	.286	.282	.395	.2[illegible]
	TOT OBS	307	283	310	300	310	300	280	279	272	302	290	296	352[illegible]
0700	MEAN	30.01	30.03	29.92	29.96	29.96	30.03	30.06	30.04	30.09	30.03	30.04	30.00	30.01
	SD	.356	.348	.294	.235	.216	.167	.162	.148	.197	.292	.283	.393	.274
	TOT OBS	308	283	310	300	310	300	286	279	275	310	291	296	3548
1000	MEAN	30.03	30.05	29.94	29.97	29.96	30.04	30.07	30.05	30.11	30.05	30.05	30.03	30.03
	SD	.360	.350	.299	.236	.218	.166	.162	.148	.199	.293	.287	.395	.276
	TOT OBS	308	283	310	300	310	300	286	279	275	310	295	301	3557
1300	MEAN	30.02	30.05	29.93	29.96	29.96	30.03	30.06	30.04	30.10	30.04	30.04	30.01	30.02
	SD	.365	.346	.295	.232	.214	.163	.159	.145	.195	.290	.285	.395	.275
	TOT OBS	308	283	310	300	310	300	286	279	275	310	295	301	3557
1600	MEAN	30.01	30.03	29.91	29.94	29.94	30.01	30.05	30.03	30.09	30.03	30.03	30.01	30.01
	SD	.366	.340	.289	.227	.209	.159	.160	.138	.191	.286	.286	.392	.272
	TOT OBS	308	283	310	300	310	300	286	279	274	310	295	302	3557
1900	MEAN	30.02	30.04	29.92	29.95	29.94	30.01	30.04	30.03	30.09	30.04	30.05	30.01	30.01
	SD	.363	.338	.290	.226	.204	.158	.157	.135	.190	.284	.284	.392	.270
	TOT OBS	306	283	309	300	310	300	285	279	270	310	289	290	3531
2200	MEAN	30.03	30.05	29.94	29.97	29.96	30.03	30.06	30.05	30.11	30.04	30.05	30.01	30.02
	SD	.360	.338	.289	.228	.206	.161	.156	.138	.190	.287	.287	.392	.270
	TOT OBS	306	283	310	300	310	300	285	279	270	310	289	290	3532
ALL HOURS	MEAN	30.02	30.04	29.93	29.96	29.95	30.02	30.06	30.04	30.10	30.04	30.04	30.01	30.02
	SD	.359	.344	.292	.231	.211	.164	.160	.143	.193	.288	.285	.394	.273
	TOT OBS	2457	2264	2479	2400	2480	2400	2274	2232	2181	2463	2334	2370	28334

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

STATION PRESSURE IN INCHES
FROM HOURLY OBSERVATIONS

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1

HOURS (LST)	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
0100	MEAN	28.75	28.76	28.66	28.68	28.68	28.75	28.78	28.76	28.82	28.76	28.77	28.73	28.74
	SD	.340	.335	.280	.223	.202	.160	.152	.138	.182	.275	.273	.381	.262
	TOT OBS	305	283	310	300	310	300	280	279	270	301	291	294	3523
0400	MEAN	28.74	28.75	28.64	28.67	28.67	28.73	28.76	28.75	28.81	28.75	28.75	28.72	28.73
	SD	.339	.335	.281	.224	.205	.160	.158	.140	.183	.276	.272	.382	.263
	TOT OBS	307	283	310	300	310	300	282	279	270	302	290	296	3529
0700	MEAN	28.73	28.75	28.64	28.68	28.68	28.74	28.78	28.76	28.81	28.75	28.76	28.72	28.73
	SD	.343	.336	.284	.228	.209	.161	.156	.143	.190	.282	.274	.380	.265
	TOT OBS	308	283	310	300	310	300	286	279	275	310	291	296	3548
1000	MEAN	28.75	28.77	28.66	28.69	28.69	28.75	28.79	28.77	28.83	28.77	28.77	28.75	28.75
	SD	.348	.337	.288	.228	.211	.160	.156	.143	.192	.283	.277	.381	.267
	TOT OBS	308	283	310	300	310	300	286	279	275	310	295	301	3557
1300	MEAN	28.74	28.77	28.66	28.68	28.68	28.75	28.78	28.76	28.82	28.76	28.76	28.73	28.74
	SD	.352	.334	.284	.224	.207	.157	.154	.140	.188	.280	.276	.382	.265
	TOT OBS	308	283	310	300	310	300	286	279	275	310	295	301	3557
1600	MEAN	28.73	28.75	28.64	28.67	28.66	28.73	28.77	28.75	28.80	28.74	28.74	28.73	28.72
	SD	.353	.328	.279	.219	.201	.154	.154	.133	.185	.276	.278	.379	.263
	TOT OBS	308	283	310	300	310	300	286	279	274	310	295	302	3557
1900	MEAN	28.74	28.76	28.65	28.67	28.66	28.73	28.76	28.75	28.81	28.76	28.76	28.73	28.73
	SD	.351	.327	.280	.218	.197	.153	.152	.130	.183	.274	.274	.379	.261
	TOT OBS	306	283	309	300	310	300	285	279	270	310	289	290	3531
2200	MEAN	28.75	28.77	28.66	28.69	28.69	28.75	28.78	28.77	28.83	28.76	28.77	28.73	28.74
	SD	.347	.326	.278	.221	.198	.156	.151	.133	.183	.277	.277	.379	.261
	TOT OBS	306	283	310	300	310	300	285	279	270	310	289	290	3532
ALL HOURS	MEAN	28.74	28.76	28.65	28.68	28.68	28.74	28.77	28.76	28.82	28.76	28.76	28.73	28.74
	SD	.347	.332	.282	.223	.204	.158	.154	.138	.186	.278	.275	.380	.263
	TOT OBS	2456	2264	2479	2400	2480	2400	2276	2232	2179	2463	2335	2370	28334

F - 4 - 1

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT          GGGGGG
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT         GGGGGGGG
PP      PP    AA      AA    RR      RR        TT            GG      GG
PP      PP    AA      AA    RR      RR        TT            GG
PPPPPPPPP     AA      AA    RRRRRRRRR         TT            GG
PPPPPPPP      AAAAAAAAAA    RRRRRRRR          TT            GG   GGGG
PP            AAAAAAAAAA    RR    RR          TT            GG   GGGGG
PP            AA      AA    RR     RR         TT            GG      GG
PP            AA      AA    RR      RR        TT           GGGGGGGG
PP            AA      AA    RR       RR       TT            GGGGGG
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G - 1 - 1

PART G

CROSSWIND SUMMARY

CROSSWIND SUMMARIES.

THESE TABLES ARE CREATED FROM HOURLY AND SPECIAL OBSERVATIONS (INCLUDING PEAK GUST REMARKS). THE TABLES ARE SUMMARIZED AS FOLLOWS:

- BY EIGHT 3-HOUR STANDARD TIME PERIODS FOR EACH MONTH (ALL YEARS COMBINED).
- BY MONTH (ALL YEARS AND ALL HOURS COMBINED).
- BY MONTH (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).
- BY YEAR (ALL YEARS AND ALL HOURS COMBINED).
- BY YEAR (ALL YEARS AND THE HOURS 0600-2000 LST COMBINED).

THE TABLES GIVE PERCENT OCCURRENCE FREQUENCY (POF) OF THE "CROSS-RUNWAY WIND COMPONENT" FOR THE WIND SPEED CLASSES SPECIFIED IN THE TABLE HEADINGS. THERE ARE TWO COMPONENT CATEGORIES:

THE FIRST COMPONENT IS COMPUTED FROM THE REPORTED WIND DIRECTION AND WIND SPEED FROM HOURLY RECORD OR RECORD-SPECIAL OBSERVATIONS.

THE SECOND COMPONENT IS COMPUTED FROM THE HIGHEST REPORTED WIND SPEED AND DIRECTION FROM ALL OBSERVATIONS INCLUDING REMARKS, GUSTS, AND SPECIAL OBSERVATIONS.

OBSERVATION COUNTS INCLUDE CALM WINDS.

VARIABLE WINDS ARE CONSIDERED A DIRECT CROSSWIND IF THE SPEED EQUALS OR EXCEEDS THE SPECIFIED THRESHOLD WIND SPEED VALUE(S).

A TOTAL OBSERVATION COUNT IS INCLUDED.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JAN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.6			917	2.0	.1		921	1.2			924	1.8	.1		924
CATEGORY B	5.0	2.1		1009	5.5	1.2	.1	1079	3.9	1.0		1083	4.8	1.8	.1	1119

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.7	.2		924	2.7			924	3.5	.8	.1	918	3.2	.9		918
CATEGORY B	5.8	2.2		1113	5.4	2.1		1069	6.0	3.2	.8	1029	5.4	2.7	.2	1039

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.4	.2	.0	4614	2.3	.3	.0	7370
CATEGORY B	5.2	2.1	.2	5413	5.2	2.0	.1	8540

G - 2 - 1

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: FEB

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.3	.1		849	1.4			849	1.1			849	2.5			849
CATEGORY B	3.4	.8		924	4.6	.5		955	3.7	.4		1004	6.3	1.5		1016

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	5.5	.4		849	4.1	.4		849	2.1			849	1.3			849
CATEGORY B	11.5	3.5	.1	977	9.9	2.3		997	5.2	1.2		932	4.1	.9		929

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	3.1	.1		4245	2.4	.1		6792
CATEGORY B	7.3	1.8	.0	4926	6.1	1.4	.0	7734

G - 2 - 2

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: MAR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	.8			930	.6	.1		930	.6	.2		930	2.2	.4		930
CATEGORY B	2.5	1.0		1017	2.9	1.0	.2	1047	2.6	.8	.1	1067	5.6	1.1	.1	1080

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	3.3	.5		930	4.0	.2		930	1.5	.1		929	1.5	.2		930
CATEGORY B	11.4	3.0	.6	1077	10.0	3.6	.2	1084	3.8	1.2	.2	1017	3.7	1.6	.1	1016

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.3	.3		4649	1.8	.2		7439
CATEGORY B	6.7	2.0	.2	5325	5.4	1.7	.2	8405

G - 2 - 3

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY
LST TO UTC: - 1

PERIOD OF RECORD: JAN 80 - DEC 89
MONTH: APR

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	.7	.3		900	.3	.2		900	.4			900	1.9			900
CATEGORY B	1.3	.3		958	.8	.3		986	1.5	.1		1020	5.7	.8		981

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	4.2			900	4.1	.2		900	1.2			900	.2			900
CATEGORY B	9.3	1.4	.1	982	8.8	1.9		961	3.0	1.2		953	1.0	.3		942

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.4	.0		4500	1.6	.1		7200
CATEGORY B	5.6	1.1	.0	4897	3.9	.8	.0	7783

G - 2 - 4

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY
LST TO UTC: - 1

PERIOD OF RECORD: JAN 80 - DEC 89
MONTH: MAY

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A				930				930	.3			930	1.1			930
CATEGORY B	.2			993	.3			1016	1.3	.1		1055	5.6	.8		1020

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.7			930	2.0			930	.6			930	.2			930
CATEGORY B	7.2	1.7		1012	6.9	1.1	.1	998	2.6	.3		987	.7	.1		959

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.4			4650	.9			7440
CATEGORY B	4.7	.8	.0	5072	3.1	.5	.0	8040

G - 2 - 5

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY
LST TO UTC: - 1

PERIOD OF RECORD: JAN 80 - DEC 89
MONTH: JUN

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A				900	.1			900	.6			900	1.4			900
CATEGORY B	.2	.1		958	.1			1022	1.1	.1		1034	3.0	.1		993

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.9			900	1.6			900				900				900
CATEGORY B	4.7	.2		1004	4.9	.4		975	1.6	.4		955	.2			950

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.1			4500	.7			7200
CATEGORY B	3.0	.2		4961	2.0	.2		7891

G - 2 - 6

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: JUL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A				840				840	.1			858	.8			858
CATEGORY B	.2			904				941	.3	.1		996	2.4	.3		959

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.1	.1		858	1.4			858	.7			856	.1			849
CATEGORY B	4.4	.5		927	5.4	1.1	.1	941	2.3	.4	.1	913	.8	.4		916

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.0	.0		4288	.7	.0		6817
CATEGORY B	2.9	.5	.0	4736	2.0	.4	.0	7497

G - 2 - 7

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY
LST TO UTC: - 1

PERIOD OF RECORD: JAN 80 - DEC 89
MONTH: AUG

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	.2			837				837				837	.5			837
CATEGORY B	.3			888				956	.8			963	2.9	.2		924

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.9			837	2.6			837	.7			837				837
CATEGORY B	6.8	1.2		925	6.4	1.6	.1	893	2.1	.2		906	.2			881

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.1			4185	.7			6696
CATEGORY B	3.8	.6	.0	4611	2.4	.4	.0	7336

G - 2 - 8

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: SEP

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	.1			810	.6	.2		815	.1	.1		823	.4	.1		825
CATEGORY B	.3	.1		885	.9	.5		931	.3	.1		1002	1.6	.2		960

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.3	.1		825	.7	.2		821				810				810
CATEGORY B	2.6	.2		906	3.5	.7		912	.9	.2		880	.7			878

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	.5	.1		4104	.4	.1		6539
CATEGORY B	1.8	.3		4660	1.3	.3		7354

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: OCT

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.1			905	.4			910	.9	.1		926	1.3	.3		930
CATEGORY B	3.0	1.2		1019	3.0	.5		1039	2.0	.6	.1	1106	3.7	.9	.1	1123

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.4	.3		930	1.7	.4		930	1.2	.4		930	.8			928
CATEGORY B	7.0	1.5	.1	1054	5.3	1.3	.1	1036	2.5	1.2	.3	1004	3.2	1.2		1020

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.5	.3		4646	1.2	.2		7389
CATEGORY B	4.1	1.1	.1	5323	3.7	1.0	.1	8401

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: NOV

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	.6	.1		870	.3	.1		871	.7			877	.5	.1		885
CATEGORY B	2.9	.9		955	2.8	.4		1003	3.0	.4		1008	2.2	.3		1034

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.6	.1		885	2.4	.1		885	.9	.1		871	.8			867
CATEGORY B	5.9	1.3		996	5.5	.9		988	3.7	.8		956	2.3	.3	.1	946

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.2	.1		4403	1.0	.1		7011
CATEGORY B	4.0	.7		4982	3.5	.7	.0	7886

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 80 - DEC 89
LST TO UTC: - 1 MONTH: DEC

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.8	.7		880	3.2	.8		886	2.5	.6		892	2.0	.4		903
CATEGORY B	4.9	1.7	.3	997	5.5	2.4	.5	1042	4.9	1.9	.3	1070	5.4	1.5	.3	1097

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.7			904	2.3	.3		900	2.9	.8		870	2.1	.7		870
CATEGORY B	6.3	1.4	.2	1060	7.1	2.6	.2	1035	6.4	3.7	.7	994	4.5	2.1	.9	1005

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.5	.4		4469	2.5	.5		7105
CATEGORY B	6.0	2.2	.3	5256	5.6	2.1	.4	8300

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CROSSWINDS
FROM HOURLY OBSERVATIONS

MAGNETIC RUNWAY HEADING: 046-226

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY
LST TO UTC: - 1

PERIOD OF RECORD: JAN 80 - DEC 89
MONTH: ALL

CATEGORY A: ANY CEILING OR VISIBILITY (HOURLY OBS ONLY)

CATEGORY B: HIGHEST WINDS REPORTED WITHIN THE HOUR (HOURLIES + SPECIALS)

TIME (LST)	0000 - 0200				0300 - 0500				0600 - 0800				0900 - 1100			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	.8	.1		10568	.8	.1		10589	.7	.1		10646	1.4	.1		10671
CATEGORY B	2.1	.7	.0	11507	2.2	.6	.1	12017	2.1	.5	.0	12408	4.1	.8	.0	12306

TIME (LST)	1200 - 1400				1500 - 1700				1800 - 2000				2100 - 2300			
SPEED (KTS)	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	2.7	.1		10672	2.5	.2		10664	1.3	.2	.0	10600	.9	.2		10588
CATEGORY B	7.0	1.5	.1	12033	6.6	1.6	.1	11889	3.4	1.2	.2	11526	2.3	.8	.1	11481

TIME (LST)	0600 - 2000				ALL HOURS			
SPEED KTS	GE10	GE15	GE25	OBS	GE10	GE15	GE25	OBS
CATEGORY A	1.7	.1	.0	53253	1.4	.1	.0	84998
CATEGORY B	4.6	1.1	.1	60162	3.7	1.0	.1	95167

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PPPPPPPP        AAAAAA      RRRRRRRR      TTTTTTTTTT          HH      HH
PPPPPPPPP      AAAAAAAA     RRRRRRRRR     TTTTTTTTTT          HH      HH
PP      PP     AA      AA   RR      RR        TT              HH      HH
PP      PP     AA      AA   RR      RR        TT              HH      HH
PPPPPPPPP      AA      AA   RRRRRRRRR         TT              HHHHHHHHHH
PPPPPPPP       AAAAAAAAAA   RRRRRRRR          TT              HHHHHHHHHH
PP             AAAAAAAAAA   RR    RR          TT              HH      HH
PP             AA      AA   RR     RR         TT              HH      HH
PP             AA      AA   RR      RR        TT              HH      HH
PP             AA      AA   RR       RR       TT              HH      HH
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PART H

DEGREE DAY SUMMARIES

DEGREE DAYS.

CREATED FROM HOURLY OBSERVATIONS (MAX+MIN/2 WHEN AVAILABLE), THESE TABLES GIVE THE THE NUMBER OF DEGREE DAYS FOR EACH MONTH IN EACH YEAR OF THE AVAILABLE PERIOD OF RECORD.

INCLUDED BENEATH EACH SUMMARY ARE STATISTICS BASED ON A 30-YEAR (1951-1980) POR (IF AVAILABLE). THE 30-YEAR POR PROVIDES AWS USERS WITH A SUMMARY CONSISTENT WITH OTHER STANDARD CLIMATIC PUBLICATIONS, NOTABLY THOSE OF THE NATIONAL CLIMATIC DATA CENTER (NCDC). NOTE THAT THE 30-YEAR POR WILL CHANGE TO 1961-1990 AS SOON AS DATA FOR DECEMBER 1990 HAS BEEN PROCESSED.

MONTHS WITH NO AVAILABLE DATA AND MONTHS WITH A VALUE OF ZERO APPEAR AS BLANKS IN THESE TABLES. ASTERISKS (****) DENOTE AN INCOMPLETE MONTH WITH A DAY (OR DAYS) THAT CANNOT BE CALCULATED (FILLED IN) AUTOMATICALLY.

HEATING DEGREE DAYS.

ONE "HEATING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE MEAN TEMPERATURE FALLS BELOW A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE ON A GIVEN DAY IS 57 DEGREES, THAT DAY IS SAID TO HAVE 8 HEATING DEGREE DAYS.

COOLING DEGREE DAYS.

ONE "COOLING DEGREE DAY" IS ASSIGNED TO REPRESENT EACH DEGREE THAT THE TEMPERATURE RISES ABOVE A DESIGNATED "BASE TEMPERATURE" OF 65 DEGREES* FAHRENHEIT. FOR EXAMPLE, IF THE MEAN TEMPERATURE FOR A GIVEN DAY IS 73 DEGREES, THAT DAY IS SAID TO HAVE 8 COOLING DEGREE DAYS.

*65 DEGREES FAHRENHEIT HAS BEEN SELECTED AS THE NATIONWIDE STANDARD "BASE TEMPERATURE" AT WHICH (AT LEAST THEORETICALLY) NO HEATING OR COOLING IS REQUIRED. IF ANOTHER BASE TEMPERATURE IS USED IN THESE TABLES, IT WAS SPECIALLY REQUESTED BY THE STATION, AND IS NOTED.

NOTE 1. THESE SUMMARIES ARE NOT AVAILABLE FOR PART TIME PERIODS.

OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

HEATING DEGREE DAYS
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 68 - DEC 89
LST TO UTC: - 1

YEARS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1968	1071	897	751	476	429	208	165	162	289	442	****	****	4890
1969	****	972	814	****	****	****	****	****	****	****	****	1150	2936
1970	1018	891	902	****	324	****	160	60	160	477	621	950	5563
1973	967	859	724	644	283	97	79	32	191	512	780	953	6121
1974	814	756	716	507	431	276	207	90	283	722	747	758	6307
1975	754	752	815	613	397	213	87	42	162	580	787	979	6181
1976	909	885	895	607	341	90	70	74	256	363	646	1039	6175
1977	905	617	634	666	381	177	128	130	318	415	681	855	5907
1978	946	904	707	617	399	264	195	147	292	514	812	896	6693
1979	1238	901	777	616	401	150	147	224	263	433	759	784	6693
1980	1036	727	742	604	395	248	232	129	235	579	805	989	6721
1981	1024	950	635	546	346	213	136	138	229	571	710	1026	6524
1982	1064	830	740	582	300	144	55	96	115	490	647	886	5949
1983	843	956	748	543	470	149	31	57	260	515	780	932	6284
1984	926	889	829	616	475	264	****		****	****	****	****	3999
1985	1197	979	798	474	263	258	68	143	192	446	****	****	4818
1986	****	1103	774	675	257	155	81	86	285	364	****	861	4641
1987	1216	883	946	489	514	271	106	134	136	492	764	****	5951
1988	841	828	776	514	238	160	119	60	199	363	****	****	4098
1989	864	786	557	536	207	189	87	87	204	424	754	****	4695
MEAN	979	868	764	573	360	195	119	105	226	483	735	932	
SD	140.65	106.69	93.26	64.45	86.53	59.41	56.01	49.32	59.16	91.75	63.07	103.99	

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OPERATING LOCATION "A"
USAFETAC, ASHEVILLE NC

COOLING DEGREE DAYS
FROM HOURLY OBSERVATIONS

BASE TEMPERATURE 65

STATION NUMBER: 106070 STATION NAME: SPANDAHLEM AB/GERMANY PERIOD OF RECORD: JAN 68 - DEC 89
LST TO UTC: - 1

YEARS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1968				5		10	34	3			****	****	52
1970				****		****	29	59	3				91
1973						37	58	118	65				278
1974							7	48	8				63
1975						12	29	109	3				153
1976					13	121	142	20		2			298
1977						8	48	5					61
1978						5	40	13					58
1979					8	17	11	5	1	2			44
1980						9	21	23					53
1981					4	8	12	41					65
1982					10	60	105	19	12				206
1983						10	163	83					256
1984						2	****		****	****	****	****	2
1985					6	11	51	21	9	5	****	****	103
1986	****				1	104	64	69	1		****		239
1987						20	31	33	46			****	130
1988					5	7	26	71	1		****	****	110
1989					12	12	65	55	3			****	147
MEAN				0	3	25	52	44	8	0			
SD				1.18	4.54	34.82	43.73	35.08	17.78	1.29			

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A W S	STATION NAME: SPANGDAHLEM AB GERMANY	FIELD ELEV: 1196 FT
	LATITUDE/LONGITUDE: 49 59 N 006 42 E	STATION MSC: 106070
CLIMATIC BRIEF	HOURLY OBS POR: JAN 80 - DEC 89	CALL SIGN: EDAD
	SUMMARY OF DAY POR: MAY 53-FEB 90	
	HOURS SUMMARIZED: 0000 - 2300 LST	SUPERSEDES: AUG 84
NOV 90	LST TO UTC: -01	

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	YOR
EXTRM MAX TEMP (F)	54	63	73	81	87	90	94	95	87	79	66	59	95	38
MEAN MAX TEMP (F)	36	39	46	53	61	67	70	70	65	55	44	38	54	38
MEAN TEMP (F)	33	34	40	46	53	59	62	62	57	49	40	35	48	38
MEAN MIN TEMP (F)	29	29	33	38	45	51	54	53	49	43	35	31	41	38
EXTRM MIN TEMP (F)	-3	-3	9	21	28	35	39	38	34	25	16	5	-3	38
D/W TEMP GE 80 (F)	0	0	0	#	1	2	5	4	1	0	0	0	13	38
D/W TEMP GE 70 (F)	0	0	1	1	6	11	16	15	8	1	0	0	59	38
D/W TEMP LT 33 (F)	20	18	13	5	1	0	0	0	0	1	10	17	85	38
D/W TEMP LT 20 (F)	5	4	1	0	0	0	0	0	0	0	1	2	13	38
HEATING DEGREE DAYS	979	868	764	573	360	195	119	105	226	483	735	932	6339	22
COOLING DEGREE DAYS	0	0	0	#	3	25	52	44	8	#	0	0	132	22
MEAN DEWPOINT TEMP (F)	27	25	31	35	43	49	52	52	49	42	34	31	39	10
MEAN WET BULB TEMP (F)	30	30	36	40	48	53	57	56	53	45	37	34	43	10
99.95% WCPA (FT)	2150	2100	2050	1850	1800	1600	1550	1500	1600	1950	1900	2250	1900	10
MEAN REL HUM 07 LST(%)	81.3	76.4	80.7	77.6	80.6	83.2	83.0	84.4	85.4	84.3	84.3	82.9	82.0	10
MEAN REL HUM 13 LST(%)	78.1	68.7	68.0	59.0	60.0	61.6	59.4	58.7	63.7	72.0	77.8	80.0	67.3	10
MAX 24HR PRECIP (IN)	1.77	1.15	1.26	1.63	1.42	1.67	1.81	1.44	1.35	1.59	2.96	1.71	2.96	38
MAX PRECIP (IN)	4.94	5.19	4.39	3.72	6.45	4.91	6.25	6.16	5.52	5.43	5.02	6.25	37.23	38
MEAN PRECIP (IN)	2.53	2.07	1.98	1.60	2.48	2.56	2.61	2.26	2.18	2.15	2.44	2.68	27.49	38
MIN PRECIP (IN)	.83	.13	.37	.42	.74	.11	.63	.40	.10	.38	.21	.15	17.17	38
D/W PRECIP GE .01 (IN)	18	13	14	12	14	13	13	13	11	13	15	16	165	38
D/W PRECIP GT .50 (IN)	1	1	1	1	1	1	1	1	1	1	1	1	12	38
MAX 24HR SNFL (IN)	7.1	7.2	4.8	15.1	2.0	#	0	0	#	.3	5.1	11.9	15.1	38
MAX SNFL (IN)	24.0	25.1	16.1	21.0	2.0	#	0	0	#	.3	12.7	15.9	60.4	38
MEAN SNFL (IN)	7.0	5.7	3.1	1.5	.1	#	0	0	#	#	2.2	4.1	22.1	38
D/W SNFL GE .1 (IN)	7	5	4	1	#	0	0	0	0	#	2	5	24	38
D/W SNFL GE 1.5 (IN)	1	1	1	1	#	0	0	0	0	0	1	1	6	38
MAX DLY SNO DEPTH (IN)	12	14	8	12	1	0	0	0	0	0	6	11	14	38
PRVLNG WND DIR (DEG)	23-25	05-07	23-25	$05-07	$23-25	23-25	23-25	$23-25	$23-25	23-25	23-25	23-25	23-25	10
MEAN WND SPD (KTS)	6	6	6	5	4	4	4	4	4	5	5	5	5	10
MAX WND SPD (KTS)	90	81	46	41	38	40	50	36	44	48	51	60	90	38
SKY COVER GT 5/10 (%)	*	*	*	*	*	*	*	*	*	*	*	*	*	*
D/W THUNDERSTORMS	1	1	1	1	4	5	5	4	2	1	1	1	27	38
D/W FOG (VSBY LT 7 MI)	23	19	19	16	16	17	17	19	21	24	23	23	237	38

LEGEND: ANN = ANNUAL
D/W = MEAN NUMBER OF DAYS WITH
& = BASED ON LESS THAN FULL MONTHS
** = INSTANTANEOUS PEAK WINDS
* = DATA NOT AVAILABLE

POR/YOR = PERIOD/YEARS OF RECORD
WCPA = WORST CASE MAXIMUM PRESSURE ALTITUDE
# = LESS THAN 0.5 DAYS OR TRACE AS APPLICABLE
$ = PERCENTAGE OF CALM WINDS GREATER THAN OR EQUAL TO MEAN WIND DIRECTION

PERCENT OCCURRENCE FREQUENCY OF CEILING AND VISIBILITY

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	YOR
	LST														
	00 - 02	70.6	47.5	42.4	24.1	18.7	16.3	12.9	14.2	24.2	43.2	53.3	65.2	36.0	10
	03 - 05	70.7	52.8	52.3	33.2	29.6	31.1	23.3	24.3	36.1	56.3	62.5	67.2	44.9	10
CIG	06 - 08	71.8	57.4	64.4	42.6	36.0	39.7	32.3	36.8	48.1	63.8	62.5	69.6	52.1	10
LT 3000 FT	09 - 11	72.6	58.5	60.3	37.9	33.1	33.6	25.3	27.8	42.9	62.4	61.5	70.3	48.8	10
AND/OR	12 - 14	68.9	51.9	50.6	30.0	26.0	22.9	17.6	16.5	25.3	45.5	54.2	69.1	39.9	10
VSBY	15 - 17	64.5	47.2	42.5	24.4	16.5	14.3	11.1	10.4	15.5	33.2	44.2	63.4	32.3	10
LT 3 MI	18 - 20	62.4	46.3	33.4	19.7	13.0	10.3	8.2	8.2	14.8	30.1	44.5	61.6	29.4	10
	21 - 23	64.4	46.2	33.3	18.4	12.8	11.6	9.8	8.2	17.4	33.8	48.3	66.1	30.9	10
	ALL	68.2	51.0	47.4	28.8	23.2	22.5	17.6	18.3	28.1	46.0	53.9	66.6	39.5	10
	00 - 02	55.5	36.3	27.6	15.8	12.7	11.0	8.7	11.5	16.9	32.8	42.9	50.7	26.9	10
	03 - 05	58.4	38.5	37.0	23.7	22.0	24.1	16.4	19.8	29.1	43.7	51.4	54.5	34.9	10
CIG	06 - 08	58.2	43.3	48.1	33.0	25.3	30.6	24.4	29.7	38.8	51.6	50.7	55.4	40.8	10
LT 1500 FT	09 - 11	57.8	45.7	43.3	22.4	16.1	19.2	14.1	16.5	29.6	47.8	48.5	56.0	34.7	10
AND/OR	12 - 14	52.4	36.6	27.5	14.6	8.2	7.3	5.4	6.7	12.1	27.3	38.5	52.5	24.1	10
VSBY	15 - 17	44.6	30.0	19.0	11.7	4.5	4.7	3.4	3.6	8.3	19.0	29.3	46.3	18.7	10
LT 3 MI	18 - 20	44.6	30.2	17.3	12.0	5.6	4.3	3.2	4.7	8.1	18.4	30.9	46.1	18.8	10
	21 - 23	47.7	34.3	20.2	11.3	7.2	5.7	5.9	5.6	9.1	23.7	35.9	50.0	21.4	10
	ALL	52.4	36.9	30.0	18.1	12.7	13.4	10.2	12.3	19.0	33.0	41.0	51.5	27.7	10
	00 - 02	42.9	26.0	16.1	9.5	6.5	6.6	6.7	7.5	10.7	21.7	32.2	41.4	19.0	10
	03 - 05	46.1	26.9	25.2	15.6	14.2	16.1	10.4	14.5	20.4	31.8	39.3	46.3	25.6	10
CIG	06 - 08	45.2	30.7	34.7	21.1	15.1	21.6	15.3	21.6	31.1	41.5	41.8	47.6	30.6	10
LT 1000 FT	09 - 11	45.7	34.0	28.8	12.9	6.9	9.9	7.2	9.2	19.0	36.0	38.6	44.3	24.4	10
AND/OR	12 - 14	38.7	23.9	14.4	7.3	2.8	3.3	2.8	2.7	6.7	18.4	28.8	39.9	15.8	10
VSBY	15 - 17	32.5	17.8	8.5	4.6	.9	2.1	1.9	1.3	5.0	10.9	21.9	37.2	12.0	10
LT 2 MI	18 - 20	33.4	20.5	9.9	6.8	1.4	1.8	1.8	1.3	5.3	11.4	23.9	36.7	12.8	10
	21 - 23	37.0	23.4	11.2	6.7	3.1	2.9	4.1	3.0	5.9	13.7	29.3	38.7	14.9	10
	ALL	40.2	25.4	18.6	10.5	6.3	8.0	6.2	7.6	13.0	23.1	32.0	41.5	19.5	10
	00 - 02	11.6	6.4	1.3	1.4	.6	1.0	.6	1.8	2.5	5.1	10.5	13.1	4.7	10
	03 - 05	15.2	7.8	2.7	1.2	2.2	3.1	1.4	4.4	7.4	8.9	11.6	13.8	6.6	10
CIG	06 - 08	14.5	9.2	5.7	3.7	1.6	3.0	1.9	5.9	10.0	13.4	14.5	14.8	8.2	10
LT 200 FT	09 - 11	12.9	7.8	4.2	.8	.3	.6	.0	.6	3.2	10.5	13.2	17.3	5.9	10
AND/OR	12 - 14	9.2	6.1	1.4	.4	.0	.0	.0	.0	.0	1.9	6.2	11.9	3.1	10
VSBY	15 - 17	6.5	4.9	1.0	.3	.0	.0	.0	.0	.0	.5	5.5	10.8	2.5	10
LT 1/2 MI	18 - 20	7.4	4.4	.6	.3	.0	.0	.0	.1	.0	.9	4.6	11.6	2.5	10
	21 - 23	8.1	5.4	.4	.6	.3	.0	.4	.1	1.0	2.7	8.1	11.5	3.2	10
	ALL	10.7	6.5	2.2	1.1	.6	1.0	.5	1.6	3.0	5.5	9.3	13.1	4.6	10

HURRICANES/TROPICAL STORMS OBSERVED : NONE

REMARKS : @

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