

ATTACHMENT 4  
EGLIN AIR FORCE BASE CLIMATIC DATA

## OPERATIONAL CLIMATIC DATA SUMMARY

STATION: EGLIN AFB, FLORIDA  
 LOCATION: 3029N 8632W  
 PREPARED BY: AFCCC/DOS, SEP 1997

STATION #: 722210  
 ELEVATION (FEET): 85  
 PERIOD: 7301-9612

ICAO: KVPS  
 LST = GMT -6

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE ( F)													
EXTREME MAX	2	78	80	85	94	102	103	106	104	97	95	89	106
MEAN DAILY MAX	2	60	63	69	76	83	88	89	89	86	79	70	76
MEAN	2	51	54	60	67	74	80	82	82	78	69	60	68
MEAN DAILY MIN	2	42	45	51	58	65	72	74	74	70	59	50	59
EXTREME MIN	2	6	12	19	29	40	52	60	61	43	33	17	6
# DAYS GE 90	1	0	0	0	1	1	6	13	13	5	2	0	41
# DAYS LE 32	1	6	3	1	1	0	0	0	0	0	0	2	17
# DAYS LE 0	1	0	0	0	0	0	0	0	0	0	0	0	0
2. PRECIPITATION (INCHES)													
MAXIMUM	2	20.0	12.7	14.4	12.1	11.8	12.5	19.9	14.8	23.3	15.0	15.6	101.
MEAN	2	4.5	4.7	6.0	4.3	3.8	5.6	7.7	6.8	6.6	3.5	3.8	61.
MINIMUM	2	0.2	0.3	0.4	0.3	0.1	0.7	1.0	1.9	0.1	0.1	0.2	31.
MAX 24 HR	2	5.5	5.8	9.3	6.1	5.2	6.3	5.9	6.1	8.6	6.7	6.1	9.
# DAYS GE .004	1	9	8	8	6	6	8	12	11	9	5	6	95
# DAYS GE .5	2	3	3	3	3	2	3	5	4	3	2	2	36
3. SNOWFALL (INCHES)													
MEAN	3	0	0.1	0	0	0	0	0	0	0	0	0	0.1
MAXIMUM	3	#	1.4	#	0	0	0	0	0	0	0	0	1.4
MAX 24 HR	3	#	1.3	#	0	0	0	0	0	0	0	0	1.3
# DAYS GE 0.1		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT ( F)													
RH ( 5 LST)	2	80	79	82	83	86	86	87	89	86	81	81	83
RH (13 LST)	2	59	57	59	57	60	62	65	64	60	53	57	59
VAPOR PRESS	1	.30	.33	.41	.48	.64	.77	.83	.83	.73	.51	.42	.55
DEWPOINT	1	41	44	50	55	64	70	73	73	68	57	51	58
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	N	N	N	N	S	SSW	SSW	N	N	N	N	N
MEAN SPEED													
(PVLG DRCTN)	1	7	7	7	6	8	7	7	4	5	6	7	7
MEAN SPEED													
(ALL OBS)	1	6	6	6	6	5	5	4	4	5	5	5	5
MAX PEAK GUST	1/3	50	53	57	55	57	62	58	94	100	100	54	100
PRESSURE ALT	2	576	926	876	476	476	276	426	476	826	926	676	926
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	5	5	5	4	4	4	4	4	4	3	4	4
DAYS TSTMS	1	3	4	5	4	6	13	20	18	11	3	3	92
DAYS FOG LT 7	1	17	14	19	16	16	12	12	14	13	12	13	173
DAYS BNBD LT 7	1	0	0	0	0	0	0	0	0	0	0	0	0

REMARKS: \* = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE  
 \$ = % CALM GT PVLGN DRCTN  
 = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR  
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

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7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY  
 (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	31	30	34	20	15	5	3	3	7	10	22	28	17
03-05 LST	34	31	37	27	20	9	6	4	10	13	22	30	20
06-08 LST	36	33	36	28	23	9	9	10	14	18	23	32	23
09-11 LST	31	30	28	19	15	9	7	9	11	14	21	29	19
12-14 LST	26	24	22	14	10	6	5	8	9	9	18	26	15
15-17 LST	23	23	22	13	9	5	4	4	7	8	16	25	13
18-20 LST	25	24	25	17	11	5	3	3	6	6	16	26	14
21-23 LST	28	28	27	17	12	3	2	2	6	8	18	26	15
ALL HOURS	29	28	29	19	14	6	5	5	9	11	20	28	17

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	24	23	28	17	11	2	1	1	4	7	14	21	13
03-05 LST	26	25	30	23	17	5	3	3	7	9	15	22	15
06-08 LST	27	27	28	22	17	5	5	7	11	14	17	25	17
09-11 LST	24	23	18	11	7	2	3	4	6	7	14	21	12
12-14 LST	18	16	14	7	4	2	2	3	4	4	9	16	8
15-17 LST	16	14	14	8	5	1	2	2	3	4	9	16	8
18-20 LST	18	17	18	12	6	2	1	1	3	3	9	17	9
21-23 LST	21	21	23	13	9	1	#	1	3	4	11	19	11
ALL HOURS	22	21	22	14	9	2	2	3	5	6	12	20	12

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	20	20	25	14	7	1	#	1	3	4	11	17	10
03-05 LST	22	21	26	18	11	2	2	1	4	6	12	18	12
06-08 LST	22	22	22	15	9	2	3	4	7	10	12	20	12
09-11 LST	18	18	13	6	2	1	2	2	3	4	9	15	8
12-14 LST	13	10	9	4	2	1	1	1	2	2	6	11	5
15-17 LST	12	10	10	4	2	#	#	1	1	2	6	11	5
18-20 LST	14	14	15	9	3	1	#	1	1	2	7	13	7
21-23 LST	18	17	20	11	5	#	#	0	2	3	8	15	8
ALL HOURS	17	17	17	10	5	1	1	1	3	4	9	15	8

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	6	8	9	4	1	#	#	0	#	#	4	6	3
03-05 LST	6	8	10	6	2	1	#	#	#	1	3	7	4
06-08 LST	6	7	8	4	1	#	#	#	1	2	3	7	3
09-11 LST	2	3	1	#	#	#	0	0	#	#	1	2	1
12-14 LST	1	1	#	#	#	#	0	#	0	0	0	#	#
15-17 LST	1	1	#	#	#	0	0	#	0	#	#	1	#
18-20 LST	3	3	2	1	0	0	#	0	0	0	1	3	1
21-23 LST	5	5	4	1	#	0	0	#	0	#	2	4	2
ALL HOURS	4	5	4	2	1	#	#	#	#	0	2	4	2

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## 11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	3	2	2	2	4	5	3	1	1	1	2
03-05 LST	1	2	3	3	2	3	7	7	4	2	2	1	3
06-08 LST	1	2	3	3	2	3	7	6	3	2	1	1	3
09-11 LST	1	1	2	2	3	7	9	7	4	1	1	1	3
12-14 LST	1	1	3	2	3	11	17	14	8	1	1	#	5
15-17 LST	1	1	2	2	4	10	15	16	7	2	1	1	5
18-20 LST	1	2	3	2	3	6	9	9	5	1	1	1	4
21-23 LST	1	2	3	2	2	2	4	3	3	1	1	1	2
ALL HOURS	1	2	3	2	3	6	9	8	5	1	1	1	3

## 12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	11	9	9	5	3	3	3	4	4	4	6	8	6
03-05 LST	12	10	9	5	4	4	5	5	6	5	6	8	6
06-08 LST	10	9	8	5	4	4	8	6	6	5	7	8	7
09-11 LST	9	8	6	4	5	7	10	6	8	5	6	6	7
12-14 LST	8	7	8	5	4	7	11	9	8	6	6	7	7
15-17 LST	9	7	7	5	4	7	9	8	7	5	7	6	7
18-20 LST	11	8	9	5	4	5	6	6	7	5	6	6	6
21-23 LST	10	9	9	5	3	3	4	3	5	4	7	7	6
ALL HOURS	10	8	8	5	4	5	7	6	6	5	6	7	6

## 13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	0	0	0	0	0	0	0	0	0	#	#
03-05 LST	#	#	#	0	0	0	0	0	0	#	0	#	#
06-08 LST	#	#	#	0	0	0	0	0	0	#	0	#	#
09-11 LST	#	#	#	0	0	0	0	0	0	0	0	#	#
12-14 LST	#	0	0	0	0	0	0	0	0	0	0	#	#
15-17 LST	#	#	0	0	0	0	0	0	0	0	0	#	#
18-20 LST	0	#	0	0	0	0	0	0	0	0	0	#	#
21-23 LST	#	#	0	0	0	0	0	0	0	0	0	#	#
ALL HOURS	#	#	#	0	0	0	0	0	0	#	0	#	#

## 14. % FREQ OF SURFACE WIND SPEEDS, GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	1	#	#	0	0	#	#	#	#	#	#
03-05 LST	#	1	1	#	#	0	0	#	#	#	#	#	#
06-08 LST	#	#	1	1	#	#	#	#	#	#	#	#	#
09-11 LST	1	1	2	1	1	#	#	#	1	#	#	#	1
12-14 LST	1	2	2	2	1	#	#	1	1	#	1	#	1
15-17 LST	1	1	2	1	1	1	#	1	#	#	#	#	1
18-20 LST	#	1	1	#	#	#	#	#	#	#	#	#	#
21-23 LST	#	1	1	#	#	#	#	#	#	#	#	#	#
ALL HOURS	1	1	1	1	#	#	#	#	#	#	#	#	#

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## 15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	19	18	23	13	5	1	#	1	2	3	10	16	9
03-05 LST	20	19	24	17	9	2	2	1	3	6	10	16	11
06-08 LST	20	19	20	14	8	2	3	3	5	8	10	18	11
09-11 LST	15	15	11	5	2	1	1	2	2	3	7	13	6
12-14 LST	10	8	6	3	1	1	1	1	1	1	4	8	4
15-17 LST	9	9	8	4	1	#	#	1	1	1	4	9	4
18-20 LST	13	13	12	8	2	#	#	1	1	1	6	12	6
21-23 LST	16	16	17	9	4	#	#	#	1	2	7	13	7
ALL HOURS	15	15	15	9	4	1	1	1	2	3	7	13	7

## 16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	13	13	17	8	2	#	#	#	1	2	6	12	6
03-05 LST	13	14	18	12	5	1	1	1	1	4	7	13	8
06-08 LST	13	15	15	9	3	1	2	1	3	5	6	14	7
09-11 LST	8	8	6	2	#	1	#	1	#	1	3	8	3
12-14 LST	4	4	3	1	#	#	#	#	#	1	1	3	2
15-17 LST	4	4	3	1	#	#	#	#	#	#	2	4	2
18-20 LST	7	8	7	3	#	#	#	#	#	#	2	7	3
21-23 LST	11	10	11	5	1	0	0	#	0	1	4	9	4
ALL HOURS	9	9	10	5	2	#	1	1	1	2	4	9	4

## 17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	8	10	12	6	1	#	#	#	1	1	5	8	4
03-05 LST	8	11	14	9	3	1	1	#	#	2	4	9	5
06-08 LST	8	10	10	6	2	1	1	#	1	3	4	10	5
09-11 LST	4	4	2	1	#	#	#	#	#	#	1	4	2
12-14 LST	2	2	1	#	#	#	#	#	#	#	#	1	1
15-17 LST	2	2	1	#	#	0	#	#	#	#	#	2	1
18-20 LST	5	5	3	2	#	#	#	#	0	#	1	5	2
21-23 LST	7	7	7	3	#	0	0	#	0	#	2	6	3
ALL HOURS	6	6	6	3	1	#	#	#	#	1	2	6	3

## 18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	4	5	6	2	#	0	0	0	#	#	2	4	2
03-05 LST	4	6	7	3	1	#	#	#	#	#	2	4	2
06-08 LST	4	4	5	2	#	#	#	#	#	1	2	5	2
09-11 LST	1	2	1	0	#	#	0	0	0	0	1	2	#
12-14 LST	#	#	#	0	#	0	0	#	0	0	0	#	#
15-17 LST	#	#	0	#	0	0	0	0	0	#	#	1	#
18-20 LST	2	2	#	#	0	0	0	0	0	0	#	2	1
21-23 LST	3	3	2	#	#	0	0	#	0	#	1	3	1
ALL HOURS	2	3	3	1	#	#	#	#	#	#	1	3	1

SOURCE(S): 1. AFCCC DATSAV DATABASE, 7301-9612 TOTAL OBS USED 267079

2. INTERNATIONAL STATION METEOROLOGICAL CLIMATE SUMMARY, CD-ROM, V 4.0  
(ISMCS V 4.0 INCLUDES GHCN V 1.0 DATA)
3. RUSSWO, EGLIN AFB FLORIDA, POR: NOV 39-MAR 91

## OCTOBER CLIMATOLOGY FOR EGLIN AFB

October brings relief from the hot humid summer with cooler, drier air. High pressure predominates and produces the month with the least cloud cover and best flying weather. It is the driest month of the year.

The hurricane and tropical storm season begins to diminish as upper level wind shea cooling waters in the Gulf of Mexico make tropical cyclones rare by the end of the month.

TEMPERATURES:	Record high:	95	DEWPOINTS:	Record high:	82
	Average high:	79			
	Mean:	69		Mean:	58
	Median:	70		Median:	59
	Mode:	70		Mode:	67
	Average low:	59			
	Record low:	33		Record low:	7
	90% Range:	51-84		90% Range:	39-74

On the average temperatures rarely exceed 90 degrees.

PRECIPITATION: Measurable amounts occur on an average of 5 days with a monthly mean rainfall of 3.5 inches. The record high reported monthly rainfall was 15.0 inches and the record high 24-hour of 6.7 inches (midnight to midnight). The driest October (.01 inches) occurred in 1943.

RELATIVE HUMIDITY: The average is 70%. The highest hourly average occurs between 0300 and 0500 local (81%). Relative humidity of 70% and greater occurs 53% of the time.

CLOUD CEILINGS: Ceilings below 10,000 feet occur 19% of time with the highest occurrence of 12% between 0900 and 1100 local. Ceilings below 5000 feet occur occurs 10% of time with the highest occurrence of 12% between 1200 and 1400 local.

VISIBILITIES: Some obstruction to visibility occurs on the average of 13 days with most occurrences between 0900 and 1100 local.

THUNDERSTORMS: Thunderstorms occur an average of 1 day with peak activity between 0300 and 0500 and 1500-1700 local.

SURFACE WINDS: Surface winds tend to be calm, light and variable or northerly during the night hours. Throughout the morning the winds tend to have an easterly component up to 8 knots; while during the afternoon hours, the winds are evenly distributed between northerly and southerly averaging 8 knots. The highest winds recorded were northwesterly at 54 knots in 1954.

OCTOBER  
HOURLY CLIMATOLOGY  
FOR

## EGLIN AFB FL

CRITERIA LOCAL TIME  
00-02 03-05 06-08 09-11 12-14 15-17 18-20 21-23 ALL HRS

CEILINGS: (Percent of time greater than or equal to)

10000	83.7	79.0	79.2	77.6	80.2	83.4	85.3	86.7	81.1
3000	92.9	88.9	83.9	87.2	91.5	93.7	95.1	95.1	91.0
1500	95.3	91.9	89.0	94.4	98.1	97.8	98.3	97.3	95.3
1000	97.5	95.1	91.8	97.2	98.9	99.1	99.5	98.7	97.2
500	98.6	97.0	96.5	99.9	99.9	100.0	100.0	99.8	99.0
300	99.7	98.4	98.1	100.0	100.0	100.0	100.0	99.9	99.5
200	100.0	99.0	98.8	100.0	100.0	100.0	100.0	100.0	99.7

VISIBILITIES: (Percent of time greater than or equal to)

3	98.9	95.4	93.0	99.1	99.5	98.9	99.9	99.7	98.1
2	99.2	96.3	95.1	99.1	99.9	99.4	100.0	99.8	98.7
1 1/2	99.4	97.1	95.5	99.7	99.9	99.5	100.0	99.8	98.8
1	99.4	97.2	96.0	99.7	100.0	99.9	100.0	99.8	99.0
1/2	99.5	98.6	97.0	99.9	100.0	100.0	100.0	99.9	99.4

COMBINED: (Percent of time greater than or equal to)

3000/3	92.6	87.1	81.3	87.0	91.5	93.5	95.1	94.9	90.4
1000/2	97.2	93.3	89.8	97.0	98.8	98.6	99.5	98.6	96.6
200/ 1/2	99.5	98.6	97.0	99.9	100.0	100.0	100.0	99.9	99.4

SKY COVER: (Percent time of occurrence)

Clear	39.8	36.9	18.5	18.8	14.1	14.2	22.8	36.8	25.2
Scattered	31.3	30.5	35.3	37.5	41.1	43.2	40.3	33.5	36.6
Broken	15.5	17.0	28.5	30.5	30.4	29.2	24.7	18.0	24.2
Overcast	13.1	14.3	15.4	13.1	14.4	13.3	12.2	11.6	13.2
>= 1/2	28.9	32.6	46.2	43.7	44.8	42.6	36.9	29.7	38.2

ATMOSPHERIC PHENOMENA: (Percent time of occurrence)

T-storms	1.2	2.5	1.6	1.0	1.1	2.5	1.2	.8	1.5
Rain	3.5	4.8	4.6	3.5	5.2	5.1	4.8	2.9	4.3
Fog	10.3	18.8	26.2	7.3	2.0	2.9	3.3	4.6	9.4
Smoke/Haze	1.2	.5	8.0	9.6	6.0	5.9	2.7	.9	4.3

WIND SPEEDS IN KNOTS:

% CALM	29.9	26.7	19.0	4.1	1.9	3.8	31.0	35.6	19.0
Mean/Ave	3.7	3.8	4.7	6.6	7.4	6.4	3.2	3.2	4.9
Median	5.0	5.0	5.0	6.0	8.0	6.0	4.0	4.0	6.0

TEMPERATURES (Mean) IN DEGREES FAHRENHEIT:

64.3	62.5	64.3	73.7	77.3	75.9	70.1	66.3	69.3
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DEWPOINT TEMPERATURES (Mean) IN DEGREES FAHRENHEIT:

56.7	56.1	56.7	57.9	58.1	58.7	59.0	57.9	57.6
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ABSOLUTE HUMIDITY (APPROXIMATE) IN GRAMS PER CUBIC METER:



11.9 11.6 11.9 12.4 12.4 12.6 12.8 12.4 12.2

## NOVEMBER CLIMATOLOGY FOR EGLIN AFB

During November, cooler, drier air predominates. Flying weather, especially early in weak fronts producing widespread clouds and precipitation with occasional severe thunderstorms.

The hurricane and tropical storm season ends this month.

TEMPERATURES:	Record high:	89	DEWPOINTS:	Record high:	78
	Average high:	70			
	Mean:	60		Mean:	48
	Median:	60		Median:	50
	Mode:	63		Mode:	57
	Average low:	50			
	Record low:	17		Record low:	1
	90% Range:	39-76		90% Range:	23-68

Temperatures have never exceeded 90 degrees and fall below 32 degrees on an average of one day.

PRECIPITATION: Measurable amounts occur on an average of seven days with a monthly mean rainfall of 3.8 inches. The monthly rainfall record high was 15.6 inches, and the 24-hour (midnight to midnight) rainfall record high was 6.0 inches. The driest November occurred in 1954 with a recorded 0.19 inches.

RELATIVE HUMIDITY: The average is 72 percent. The highest hourly average of 80 percent occurs between 0300 and 0500 local; 70 percent or greater relative humidity occurs 59 percent of the time.

CLOUD CEILINGS: Ceilings below 10,000 feet occur 35 percent of the time; between 0600 and 0800 local 40 percent of the time (the highest occurrence). Ceilings below 5,000 feet occur 26 percent of the time; between 0600 and 0800 local 31 percent of the time (the highest occurrence).

VISIBILITIES: Some obstruction to visibility occurs on the average of 14 days primarily between 0600 and 0800 local.

THUNDERSTORMS: Thunderstorms occur on an average of 1 day with peak activity between 0300 and 0500 local.

SURFACE WINDS: Surface winds tend to be calm, light and variable, or northerly during the night hours. Throughout the day, the winds tend to have a northerly or easterly component averaging up to 7 knots. The highest winds recorded were west southwest at 54 knots in 1947.

NOVEMBER  
HOURLY CLIMATOLOGY  
FOR  
EGLIN AFB FL

CRITERIA	LOCAL TIME								
	00-02	03-05	06-08	09-11	12-14	15-17	18-20	21-23	ALL HRS

## CEILINGS: (Percent of time greater than or equal to)

10000	65.7	64.0	60.0	62.6	63.8	65.3	68.0	67.6	64.6
3000	77.9	78.2	76.9	77.4	80.1	82.7	81.8	79.7	79.3
1500	86.2	85.2	84.0	85.8	90.2	90.0	89.9	87.9	87.5
1000	89.0	87.7	87.4	90.7	94.9	95.1	91.9	90.7	90.9
500	94.7	93.9	93.7	97.4	99.4	98.9	97.8	95.9	96.5
300	96.8	97.1	97.1	99.8	100.0	99.8	99.1	98.6	98.5
200	97.6	98.1	98.7	99.9	100.0	100.0	99.8	99.3	99.2

## VISIBILITIES: (Percent of time greater than or equal to)

3	93.9	93.9	93.9	96.9	98.2	98.7	98.7	97.1	96.4
2	94.8	95.3	95.7	98.2	99.4	99.2	99.3	97.7	97.5
1 1/2	95.4	95.6	95.9	98.7	99.6	99.4	99.3	97.9	97.7
1	96.1	96.4	96.3	98.9	99.9	100.0	99.4	98.2	98.2

## COMBINED: (Percent of time greater than or equal to)

3000/3	76.9	76.9	75.9	77.2	80.0	82.6	81.3	78.8	78.7
1000/2	88.1	86.8	86.9	90.3	94.7	94.8	91.8	90.0	90.4
200/ 1/2	96.3	96.9	96.8	99.3	100.0	100.0	99.4	99.0	98.5

## SKY COVER: (Percent time of occurrence)

Clear	27.7	26.0	11.2	11.4	7.7	7.2	19.3	28.0	17.3
Scattered	25.6	28.9	34.6	34.9	36.6	36.4	34.6	26.6	32.3
Broken	22.9	21.2	30.6	29.2	34.8	35.0	25.1	24.0	27.9
Overcast	20.6	21.2	21.3	23.7	21.0	21.2	20.3	20.6	21.2
>= 1/2	46.7	45.1	54.2	53.7	55.8	56.3	46.1	45.4	50.4

## ATMOSPHERIC PHENOMENA: (Percent time of occurrence)

T-storms	1.8	1.9	1.4	1.0	.9	1.1	.9	.8	1.2
Rain	7.9	8.6	7.3	7.1	6.1	7.9	7.3	7.2	7.4
Fog	19.6	20.0	26.3	15.4	8.3	11.6	15.2	17.3	16.7
Smoke/Haze	.3	.7	2.8	7.1	7.1	7.4	2.2	.4	3.5

## WIND SPEEDS IN KNOTS:

% Calm	24.9	23.7	16.3	4.4	2.7	8.1	29.3	38.2	17.2
Mean/Ave	4.4	4.3	4.8	6.7	7.2	5.9	3.9	4.0	5.2
Median	5.0	5.0	5.0	7.0	7.0	6.0	4.0	5.0	6.0

## TEMPERATURES (Mean) IN DEGREES FAHRENHEIT:

57.6	56.1	56.7	64.6	68.8	67.3	62.1	59.0	61.5
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## DEWPOINT TEMPERATURES (Mean) IN DEGREES FAHRENHEIT:

50.9	50.0	50.1	51.9	52.4	53.2	53.4	51.8	51.7
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## ABSOLUTE HUMIDITY (APPROXIMATE) IN GRAMS PER CUBIC METER:

9.7	9.4	9.4	10.0	10.2	10.5	10.6	9.9	9.8
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## DECEMBER CLIMATOLOGY FOR EGLIN AFB

During December, Eglin winter weather results primarily from the locations of polar fronts and the orientation of jet streams aloft. Polar fronts pass on the average of every four to five days with their associated widespread rain, showers and thunderstorms. Waves and weak (although sometimes strong) lows may form along the polar front as it stalls in the gulf. These systems then migrate eastward along the polar front causing moderate to heavy precipitation (both steady and showery). On rare occasions severe thunderstorms--those with tornadoes and strong winds--can form in squall lines out ahead of the polar front.

Some form of fog occurs nearly half the days of this month. Radiation fog occurring in the morning (visibilities as low as 1/4 mile) usually dissipates by mid morning. Sea fog (warm, moist air advecting over cooler water) can occur at time during the day but most often during the late afternoons. This fog can persist for days. Atlantic stratus (with average ceilings of 600 to 1000 feet) with good surface visibilities can persist for days.

TEMPERATURES:	Record high:	80	DEWPOINTS:	Record high:	72
	Average high:	63			
	Mean:	54		Mean:	45
	Median:	54		Median:	44
	Mode:	62		Mode:	37
	Average low:	44			
	Record low:	09		Record low:	-03
	90% Range:	33-70		90% Range:	20-65

Temperatures fall below below 32 degrees on an average of five days.

PRECIPITATION: Measurable amounts occur on an average of 9 days with a monthly mean rainfall of 4.6 inches. The record high reported monthly rainfall was 16.6 inches and the record high 24-hour of 7.7 inches (midnight to midnight). The driest December on record with .59 inches occurred in 1946.

RELATIVE HUMIDITY: The average is 71%. The highest hourly average occurs between 0300 and 0800 local averaging 78%. Relative humidity of 70% occurs 56% of the time.

CLOUD CEILINGS: Ceilings below 10,000 feet occur 30% of time with the highest occurrence of 44% between 0600 and 0800 local. Ceilings below 5000 feet occur occurs 33% of time with the highest occurrence of 37% between 0600 and 0800 local.

VISIBILITIES: Some obstruction to visibility occurs on the average of 16 days with most occurrences between 0600 and 1000 local.

THUNDERSTORMS: Thunderstorms occur an average of 2 days with peak activity between 2100 and 2300 local.

SURFACE WINDS: Generally calm at night and northerly during the day. Frontal waves and lows alter the winds to a northeasterly to southerly direction with an average of 8 knots. The highest winds recorded were west southwesterly at 56 knots in 1973.

DECEMBER  
HOURLY CLIMATOLOGY  
FOR  
EGLIN AFB FL

CRITERIA	LOCAL TIME								
	00-02	03-05	06-08	09-11	12-14	15-17	18-20	21-23	ALL HRS

CEILINGS: (Percent of time greater than or equal to)

10000	54.1	51.1	46.9	52.0	55.8	57.2	57.9	57.1	54.0
3000	70.3	67.4	66.0	66.9	69.2	71.4	71.6	70.8	69.2
1500	76.5	74.0	72.9	75.7	80.4	81.4	80.4	79.7	77.4
1000	79.7	78.4	78.1	81.1	85.8	86.5	82.5	80.4	81.5
500	84.4	83.5	83.8	89.9	96.1	95.3	90.6	87.8	88.9
300	90.5	89.0	89.5	95.2	99.1	98.4	93.7	92.4	93.5
200	93.2	93.2	93.2	97.5	99.8	99.5	96.7	96.7	96.2

VISIBILITIES: (Percent of time greater than or equal to)

3	87.2	85.6	82.8	90.4	95.6	95.7	91.9	88.6	89.7
2	89.5	87.3	85.4	93.1	97.6	96.8	94.0	91.3	91.9
1 1/2	90.5	88.6	86.9	94.1	98.2	97.6	94.7	92.4	92.9
1	91.9	90.0	87.7	95.3	99.1	98.3	95.7	93.6	93.9
1/2	92.8	91.9	90.8	96.2	99.6	99.6	96.4	95.4	95.3

COMBINED: (Percent of time greater than or equal to)

3000/3	68.6	65.3	64.1	66.1	69.2	71.3	71.2	69.0	68.1
1000/2	78.5	76.5	75.7	80.8	85.8	86.3	82.1	79.0	80.2
200/ 1/2	91.1	90.4	90.0	96.0	99.6	99.1	95.1	94.6	94.5

SKY COVER: (Percent of time)

Clear	21.5	20.8	7.7	7.8	7.3	5.7	14.9	19.7	13.2
Scattered	22.2	21.9	24.3	28.3	28.5	29.7	29.1	25.5	26.2
Broken	20.8	21.5	31.5	30.9	34.7	34.1	21.5	19.6	26.8
Overcast	28.3	27.8	27.5	29.5	28.7	29.4	30.9	30.1	29.0
>= 1/2	36.3	57.3	68.0	63.9	64.2	64.6	56.0	54.8	60.0

ATMOSPHERIC PHENOMENA: (Percent of time)

T-storms	.4	.9	.6	.8	.9	.9	.5	1.1	.8
Rain	7.1	8.4	8.7	6.5	7.1	6.7	6.1	7.8	7.3
Fog	24.8	27.2	34.0	26.3	16.0	19.5	22.3	23.9	24.3
Smoke/Haze	.1	.3	2.2	6.1	7.4	4.8	1.3	.2	2.8

WIND SPEED IN KNOTS:

% CALM	23.4	22.4	18.4	4.7	1.8	7.0	24.3	25.2	15.9
Mean/Ave	4.2	4.4	4.7	6.5	7.3	5.8	4.1	4.1	5.1
Median	5.0	5.0	5.0	6.0	7.0	6.0	5.0	5.0	6.0

TEMPERATURES: (Mean) IN DEGREES FAHRENHEIT

51.1	49.9	49.8	56.0	60.6	59.6	54.9	52.5	54.3
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DEWPOINT TEMPERATURES: (Mean) IN DEGREES FAHRENHEIT

44.5	43.6	43.5	44.8	45.7	46.3	46.3	45.3	44.5
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ABSOLUTE HUMIDITY: (APPROXIMATE) IN GRAMS PER CUBIC METER

7.7	7.5	7.4	7.8	8.0	8.2	7.5	7.9	7.9
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