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SURFACE CLIMATOLOGICAL INFORMATION FOR TWELVE SELECTED STATIONS FOR RE-ENTRY VEHICLES

By Russel F. Lee, Grant W. Goodge, and H. L. Crutcher National Weather Records Center Environmental Data Service Environmental Science Services Administration Asheville, North Carolina 28801

February 1970

Prepared For

NASA-GEORGE C. MARSHALL SPACE FLIGHT CENTER Marshall Space Flight Center, Alabama 35812

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Space webicle re-entry	requires climatological and me	+corological im	£
for advanced planets as and	equires crimatorogical and me	reororogical in	TOLMACION
for advanced pranning as were	as operational activity. Th	is short study	presents
selected climatological summa	aries for twelve specified loc	ations, any one	of which
	e at one time or another. A s		
	nly and annual temperature-pre		
presented on one page. The m	nonthly and annual summaries o	f specified wea	ther con-
ditions are also shown. Simu	ultaneous conditions are not s	hown. The last	summaries
are wind rose tabulations.			
•			
This report was prepared	to provide background informa	tion for use in	trade-off
studies on the NASA Space Shu	ttle operational and abort lan	ding requiremen	ts relative
	several selected locations. A		
selected for each continent.	Each station included in this	study has an a	irport
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I. Introduction

The need for climatological summaries of weather data has increased with the development of the space program. Re-entry vehicles now may require ground-based landing areas rather than marine landing areas. It is imperative, therefore, that climatological summaries be made available for potential landing areas.

Twelve potential landing areas were selected for this first study.

Monthly and annual summaries of data were presented. The only figure
shown is an equal-area projection of a global chart showing the station
locations. These locations are:

North America - Edwards A.F.B., California; Langley A.F.B., Hampton,
Virginia; Patrick A.F.B., Cocoa Beach, Florida,

South America - Moron, Argentina,

Europe - Moron De La Frontera, Spain,

Asia - Ambala, India; Dhahran, Saudi Arabia,

Africa - Bloemfontein (Hertzog), South Africa; Reggan(e),
Algeria,

Australia - Alice Springs; Perth (Guildford),

Pacific Ocean - Honolulu (International Airport), Hawaii.

II. Data

A. Source

The data used for this study have been obtained from the archives of the National Weather Records Center at Asheville, N. C.

B. Format

The information and data presented are those of:

1. Narrative summary

- 2. Temperature and precipitation tabulations
- 3. Tables of selected present weather categories
- 4. Wind rose tabulations

C. Presentation

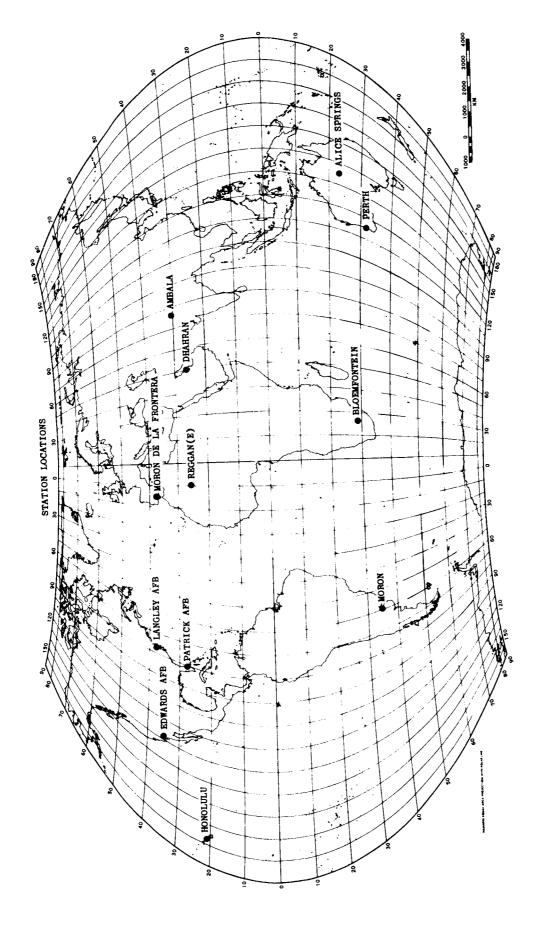
- 1. A short narrative description of the climatology precedes the tabular summaries. The period of record is included in the narrative
- 2. Temperatures are given in degrees Fahrenheit, precipitation in inches.
- 3. In the percentage frequencies of occurrence of specified weather conditions, the following elements are summarized where data were available:
 - a. Number of observations
 - b. Ceilings less than 2,000 feet and/or visibilities less than 3 statute miles
 - c. Ceilings less than 4,000 feet and/or visibilities less than 6 statute miles
 - d. Total cloud cover equal to or less than 3/10
 - e. Thunder, with or without precipitation
 - f. Rain and/or drizzle
 - g. Freezing rain and/or freezing drizzle
 - h. Snow and/or sleet
 - i. Hail
 - j. Total occurrences of precipitation
 - k. Fog
 - 1. Smoke and/or haze

- m. Blowing snow
- n. Dust (blowing and/or suspended)
- o. Total occurrences of obstructions to vision.
- 4. In the wind presentations, wind directions to sixteen points of the compass and calm are shown arrayed against the selected categories of wind speeds. Marginal distributions by wind direction and by wind speed categories are included.

III. Discussion

The information presented in this study in both narrative and tabular forms for the surface data has been compiled in such form as to provide a preliminary planning guide for those engaged in the operation of space vehicle re-entry.

Future work will increase the number of stations and will include some important features of the upper air.



EDWARDS AFB, CALIFORNIA (Lat. 34°55'N, Long. 117°54'W, Elev. 2316 ft)

Edwards Air Force Base is located in the south central part of California on the Mojave Desert adjacent to Rogers Dry Lake. The climate is typical of the desert regions. The mean annual precipitation is only four inches. Most of this, about 2.3 inches, falls during the winter months of December, January, and February. Although some snow falls during the winter months, the total for the season seldom exceeds a few inches.

The annual average daily temperature range is large, amounting to 30.3° between the mean daily maximum of 77.0° and the mean daily minimum of 46.7° .

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations per day from January 1942 through March 1965.

Temperature and Precipitation Summary EDWARDS AFB, CALIFORNIA (With peak gust when available)

				Ě	emperatu	ire (YF)							
	Jan.	Feb.	Mar.	Apr.	May	Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec.	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Monthly Mean Maximum Temperature	56.8	61.2	65.1	74.2	80.7	56.8 61.2 65.1 74.2 80.7 90.2 99.0 97.1 92.1 79.9 66.3 58.4 77.0	0.66	97.1	92.1	79.9	66.3	58.4	77.0
Monthly Mean Minimum Temperature	29.9	34.1	38.3	45.2	51.4	29.9 34.1 38.3 45.2 51.4 58.5 65.7 63.6 57.5 47.4 35.5 30.3 46.7	65.7	63.6	51.5	4.74	35.5	30.3	1.94
Monthly Mean Temperature	43.4	47.8	51.8	59.8	66.2	74.5	82.5	80.5	74.9	63.7	51.0	44.5	43.4 47.8 51.8 59.8 66.2 74.5 82.5 80.5 74.9 63.7 51.0 44.5 62.0
			Ä	riod o	f Record	1: 1949	<u> - 1964</u>						

Absolute Maximum Temperature: +113°F

Absolute Minimum Temperature: $+ \mu^{\circ} F$

Period of Record: Jan. 42 - Oct. 64

	Jan.	Feb. Mar.	Mar.	Preci Apr.	Precipitation (Inches) Apr. May June July Aug.	n (Inch June	les) July	Aug.	Sep.	Sep. Oct. Nov. Dec.	Nov.	Dec.	Annual
Monthly Mean Precipitation	ή8.	.81	.56	.23	.81 .56 .23 .04 .02 .06 .12 .26 .37 .65	.02	.02	90.	.12	.26	.37		3.99
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Wind (Knots)

Peak Gust: W + WNW 65 Knots (September 1957 and October 1954)

Period of Record: 1946 - 1964

EDWARDS AFB

Percentage Frequencies of Occurrence of Specified Weather Conditions

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0.0 indicates that the condition has occurred less than 0.06 percent of the time.

— isdicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

EDWARDS AFB Percentage Frequencies of Occurrence of Specified Weather Conditions

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LANGLEY AFB HAMPTON, VIRGINIA (Lat. 37°05'N, Long. 76°22'W, Elev. 13 ft)

Langley A.F.B., located five miles north of Hampton, Virginia, is on a peninsula flanked by the James and York Rivers, both of which flow into Chesapeake Bay.

Overall, climatic conditions are quite moderate in the Langley area. Much of this moderation comes as a result of the station's proximity to the waters of Chesapeake Bay and the Atlantic Ocean. Most middle-latitude cyclones move well north of Langley, and most tropical storms and hurricanes move out to sea before reaching the Virginia coast.

Precipitation is distributed quite evenly throughout the year. About half of the average annual total of 42 inches falls in the form of air-mass showers and thundershowers. The remainder of the precipitation occurs in connection with passing frontal systems. During the winter months some of this precipitation falls as snow. Snowfall is generally light and of short duration.

The presence of water, both in the liquid and vapor states, holds temperature variations to a minimal level. Very seldom do temperatures exceed 100°F., and for a 28-year period of record (October 1936 through May 1964, except January 1937) no temperatures below 0°F. were recorded. While the presence of water helps to moderate temperatures, the water vapor adds to the discomfort associated with the temperature extremes.

Ceilings and visibilities at Langley are reduced because of its proximity to industrial areas, population centers, and the ocean. From these come the primary visibility obstructions of smoke, fog, and haze.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations per day from October 1936 through May 1964, except January 1937.

LANGLEY AFB, VIRGINIA Temperature and Precipitation Summary (With peak gust when available)

		•		Te	- mperatu	re (°F)						ı	,
	Jan.	Feb.	Feb. Mar.	Apr.	Apr. May June July A	June	July	,ug	Sep.	Oct. I	Nov.	Dec.	Annual
Monthly Mean Maximum Temperature	1.84	50.4	57.3	67.3	50.4 57.3 67.3 75.8 83.4 86.5 85.1	83.4	86.5	85.1	79.3 70.0 60.1	70.0	60.1	1.79 8.64	67.7
Monthly Mean Minimum Temperature	32.4	33.9	39.9	48.9	33.9 39.9 48.9 58.7 67.1 71.2 70.4	67.1	71.2	70.4	65.1	65.1 54.1	42.7	42.7 33.9	51.5
Monthly Mean, Temperature	40.3	75.2	18.6 Pe	58.2 eriod o	42.2 48.6 58.2 67.3 75.3 78.9 77.8 72.2 62.1 Period of Record: 1936 - 1964	75.3 1: 1936	78.9 5 - 1964	77.8	72.2	62.1	51.5	51.5 41.9	59.7

Absolute Maximum Temperature: +103°F

Absolute Minimum Temperature: +5°F

Period of Record: Oct. 36 - May 64; Except Jan. 37

Jan. Feb. Mar.		Preci Apr.	ipitatio May	n (Inck June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Precipitation (Inches) Apr. May June July Aug. Sep. Oct. Nov. Dec. Annual
Monthly Mean 3.04 3.46 3.43 2.78 3.45 4.86 4.94 3.95 3.21 3.02 2.66 42.28	3.43	2.78	3.46	3.45	4.86	η6.η	3.95	3.21	3.02	2.66	42.28
Monthly Mean Snowfall 2.9 2.7	2.7 1.7 T T 0.0 0.0 Period of Record: 1946 - 196 ¹	T Friod of	T Record	0.0 3: 1946	T T 0.0 0.0 Period of Record: 1946 - 1964		0.0	0.0	ų.	T 0.0 0.0 .1 2.1	9.5

Wind (Knots)

Peak Gust: S 83 Knots (October 1954)
Period of Record: 1946 - 1964

LANGLEY AFB Percentage Frequencies of Occurrence of Specified Weather Conditions

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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

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A blank indicates that the data are not available.

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	Total Occurrences of Obstructions to Vision	22.T	30.6	28.6	18.3	16.0	19.3	23.1	21.1	22.5	Total Occurrences of Obstructions to Vision	26.0	35.5	10.1	22.8	19.1	21.7	27.3	24.7	27.2
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	Total Occurrences of Precipitation	7.3	6.5	6.5	0.9	8.4	6.9	9.6	9.6	7.0	Total Occurrences of Precipitation	6.7	5.5	9.6	5.0	5.8	8.8	8.5	8.3	6.1
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	Total Occurrences of Obstructions to Vision	0.5	28.6		17.4	13.6	15.7	20.8	20.8	20.B	To assistance in TaboT Moisiv or amolicurisedO	20.1	29.1	29.3	18.1	15.6	18.0	23.6	19.0	21.2
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PATRICK AFB COCOA BEACH, FLORIDA (Lat. 28°14'N, Long. 80°36'W, Elev. 9 ft)

Located on a narrow strip of land, Patrick A.F.B. is separated from the central coast of Florida by the Banana River. Fifteen miles to the north and located on the same strip of land is the Cape Kennedy Space Complex.

The climatic characteristics of the station reflect the maritime influences of the nearby Atlantic Ocean. During the summer months, temperatures may reach 90°F, and above by late morning or early afternoon. The diurnal persistence of such temperatures is terminated either by afternoon sea breezes or convective thundershowers. These two phenomena generally return temperatures to the low eighties.

Rainfall amounts are highest during the months from June through October. Most of the rainfall occurs in the form of air-mass thundershowers. Occasionally these thundershowers are accompanied by strong gusty winds. Hail rarely occurs with these heavier storms.

Though Patrick A.F.B. lies in the hurricane belt, it is not plagued with numerous or frequent occurrences of such storms. Hurricanes and tropical storms often pass within several hundred miles of the base. Very seldom, however, does the base experience winds of hurricane force.

In general, ceiling and visibility values are lowest during the winter and early spring. Low ceilings occur with frontal passages, and fog causes poor visibilities. Most fog is of the radiation type. Rarely does sea fog occur, but when it does it is likely to persist for several days. There are few sources of air pollution in the area, therefore, smoke is no real problem as an obstruction to visibility.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations per day from February 1950 through November 1964.

PATRICK AFB

Temperature and Precipitation Summary (With peak gust when available)

	Jan.	Feb.	Mar.	Te Apr.	mperatu May	re (~F) June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Temperature ('F') Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec. Annual
Monthly Mean Maximum Temperature	68.9	70.7	73.9	77.8	82.1	85.5	68.9 70.7 73.9 77.8 82.1 85.5 86.6 87.4 85.9 81.3 75.2 69.8 78.7	4.78	85.9	81.3	75.2	69.8	78.7
Monthly Mean Minimum Temperature	54.5	57.1	4.09	65.7	71.0	74.2	54.5 57.1 60.4 65.7 71.0 74.2 75.6 76.7 76.5 71.7 63.4 56.1 66.9	7.97	76.5	71.7	63.4	56.1	6.99
Monthly Mean Temperature	61.9	64.1	67.4	72.0	76.8	80.1	1.9 64.1 67.4 72.0 76.8 80.1 81.3 82.3 81.4 76.7 69.5 63.1 73.0	82.3	81.4	76.7	69.5	63.1	73.0
			P	eriod o	F Record	1: 1950	Period of Record: 1950 - 1964						

Absolute Maximum Temperature: +97°F

Absolute Minimum Temperature: +27°F

Period of Record: Feb. 1950 - May 1964

				Preci	pitatio	n (Inch	les)		į	+	N _O 1	Ç	Precipitation (Inches)
	Jen.	Feb.	Mar.	Apr.	May	June	July	Aug.	oeb.	• • • • • • • • • • • • • • • • • • • •	•		
Monthly Mean Precipitation	2.29	2.94	3.82	2.68	2.99	84.4	3.56	4.82	8.36	6.03	2.53	1.61	2.29 2.94 3.82 2.68 2.99 4.48 3.56 4.82 8.36 6.03 2.53 1.61 46.11
Monthly Mean Snowfall	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			Perio	1 of Rec	ord: I	Period of Record: Feb. 1950 - May 1964	0 - May	1967					

Wind (Knots)

Peak Gust: SSE 64 Knots (September 1960)

Period of Record: 1958 - 1964

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Percentage Frequencies of Occurrence of Specified Weather Conditions

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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

— indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

PATRICK AFB

Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Obstructions to Wision	1.3	4.	3.3	1.5	1.6	1.5	5.7	2:5	5.5	Total Occurrences of Chatructions to Vision	7	7	1.5	ŗ.	e.	œ.	ò	ę.	۲.
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1	Inunder (With or Without Precipitation)	4	÷	ď	1.0	6.7	9.8	6.1	1.7	3.3	Inunder (With or Without)	1.3	œ.	ņ.	1.3	8.5	10.8	5.7	1.6	3.8
	Cloud Cover 53/10	55.5	¥.6	34.5	28.1	26.3	23.8	23.6	\$0.5	35.9	CJong Coast \$3\70	56.2	8.3	34.6	25.7	8	18.9	20.0	38.3	34.6
	Ceilings < 0000 Ft and/or	4	5.9	7.3	7.7	11.3	12.4	10.1	8.4	8.1	To\bns FT 0004> manified IN 4> mainifiliate IN 4> mainifiliate	8.8	3.7	9.4	6.5	10.5	11.0	7.8	3.5	6.3
	Ceilings <2000 Ft and/or	1.1	2.9	3.6	3.0	3.4	3.1	5.9	1.0	2.5	Cellings <2000 Ft and/or Visibilities <3 Mi	1.1	1.6	2.3	1.5	3.3	3.4	5.5	۲.	5.0
	snoitavised To tedmin	1,350	1,347	1,348	1,350	1,350	1,350	1,350	1,350	10,795	Rumber of Observations	1,395	1,395	1,395	1,395	1,395	1,395	1,395	1,395	11,160
,	g.mog	20-00	03-05	90-90	09-11	15-14	15-17	18-20	21-23	All Bours	nom.e	20-00	03-05	9090	9-11	12-14	15-17	18-20	21-23	A11 Rours
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	Total (Blowing and/or Sumpended)	1.1	7.7	6.4	3.4	2.1	8.8	2.3	1.6	5.6	Dust (Blowing and/or Suspended)	11	1.7.	-	7		٠. ا	•	7	I
	Josef Occurrences of growing sud/or	1	2.1	!	1	5 2.1	!	1 :	9.1 9	1	Total Occurrences of Total Beowner Showing and/or	111	1	1	1	1	!	1		!
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PATRICK AFB

Percentage Frequencies of Occurrence of Specified Weather Conditions

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PATRICK AFB WIND ROSES

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MORON, ARGENTINA (Lat. 34°40'S, Long. 58°38'W, Elev. 82 ft)

This airfield lies in the rolling plains or pampas region of northeastern Argentina, and it is located about fifteen miles southwest of the city of Buenos Aires.

Temperatures are quite moderate the year around with the mean monthly temperatures ranging from 74°F. in January to 49°F. in June. Precipitation occurs in all months of the year with an annual total of about 37 inches. There are no pronounced dry and wet seasons. June has the lowest mean precipitation amount with 2.20 inches, and March has the greatest amount with 4.30 inches. Thunderstorms are predominant in the summer months, but they also occur in all other months of the year. Hail is infrequent and rarely presents any problems to aviation.

Visibilities in this area are generally good throughout the year; however, they may be reduced by precipitation, fog, or haze. Fog provides the principal visibility restriction during the winter months, while dust and haze are more predominant in the summer.

The following data, except for the Temperature and Precipitation Summary, are based on observations made at 0900 and 1300 Local Standard Time from January 1934 through August 1942 and at 1600 Local Standard Time from January 1934 through March 1942.

MORON, ARGENTINA Temperature and Precipitation Summary (With peak gust when available)

				È	, 40%00	(9P)							
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	remperature 1, Annual Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec. Annual
Monthly Mean Maximum Temperature	85	83	42	72	72 64	57	57	8	₹9	69	69 76 82	82	71
Monthly Mean Minimum Temperature	63	63	8		53 47		94 ६५ ८५ १५	143	9†1	20		56 61	52
Monthly Mean Temperature	47	73	70	63	56	73 70 63 56 49 50	50 Years*	52		95 60	99	72	63
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Absolute Maximum Temperature: $+10^{\rm \mu}{}^{\rm o}{\rm F}$

Absolute Minimum Temperature: + 22°F

Period of Record: 75 Years*

	Jan.	Feb. Mar.	Mar.	Preci Apr.	Precipitation (Inches) Apr. May June July	n (Inch June	les) July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Monthly Mean Precipitation	3.10	2.80	4.30	3.50	2.80 4.30 3.50 3.00 2.40 2.20 2.40 3.10 3.40 3.30 3.90	2.40	2.20	2.40	3.10	3.40	3.30	3.90	37.40
Monthly Mean	0.0	0.0	0.0 0.0 0.0	0.0	0.0	0.0	0.0 0.0 0.0	0.0	0.0 0.0 0.0	0.0	0.0	0.0	0.0
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*Data recorded at Buenos Aires, Argentina

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Percentage Frequencies of Occurrence of Specified Weather Conditions

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MORON, ARGENTINA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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MORON DE LA FRONTERA, SPAIN (Lat. 37°11'N, Long. 5°36'W, Elev. 272 ft)

The Moron Airfield is located in the Guadalquivir River Valley of southern Spain. There the Valley is about 25 miles wide and is oriented SW-NE. The terrain in the immediate vicinity of the field is one of very gently rolling hills with some low mountains about eight miles to the southeast.

In general, this station has a Mediterranean type climate or one of hot, dry summers and cool, wet winters. Temperatures range from a mean maximum of 83.8°F. in August to a mean minimum of 44.3°F. in February. Moron's greatest rainfall occurs in the month of December with an average of 5.49 inches. Average monthly amounts gradually decrease from this high until reaching a minimum of .03 inches in August.

Most precipitation occurs in cyclonic disturbances which move inland from the Atlantic Ocean. These disturbances often are accompanied by thunderstorms, most of which are not of violent proportions. Hail very seldom occurs with any of these storms.

Ceilings and visibilities are quite good throughout the year with best conditions existing during the dry months of June through September. Early morning radiation fog is probably the greatest single cause of below minimum visibilities at this airfield. Fog occurs most frequently in December and January. Its development is enhanced both by air-drainage and the presence of the Guadalquivir River.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations per day from October 1936 through May 1964, except for January 1937.

MORON DE LA FRONTERA, SPAIN Temperature and Precipitation Summary (With peak gust when available)

	,	,	:	. E	mperatu	Temperature (°F)	1.7	\$:: V	ğ	÷	NOW	ე .	Annual
	Jan.	Feb.	Mar.	Apr.	May	ome	, Ti	. gnu	• d	;			
Monthly Mean Maximum Temperature	59.9	62.1	65.1	70.3	79.2	.9 62.1 65.1 70.3 79.2 85.4 93.3 93.8 87.4 77.0 65.6 59.5	93.3	93.8	4.78	0.17	65.6	59.5	75.4
Monthly Mean Minimum Temperature	7.77	14.3	7.74	6.64	56.1	44.4 44.3 47.7 49.9 56.1 61.6 65.3 66.2 63.5 56.6 49.1 45.4 54.5	65.3	66.2	63.5	56.6	1.64	4.54	54.5
Monthly Mean Temperature	52.4	53.4	56.7 Perio	60.4 d of Re	67.9 scord:	73.7 Jan. 58	79.6 - Aug.	80.2 64	75.8	67.1	57.6	52.8	52.4 53.4 56.7 60.4 67.9 73.7 79.6 80.2 75.8 67.1 57.6 52.8 65.2 Period of Record: Jan. 58 - Aug. 64

Absolute Maximum Temperature: +110°F

Absolute Minimum Temperature: + 23°F

Period of Record: Apr. 58 - Aug. 6^{μ}

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	Jan.	Feb. Mar.	Mar.		Мау	Apr. May June July Aug. Sep. Oct. Nov. Dec.	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annua
Monthly Mean Precipitation	2.71	2.88	3.03	1.73	2.08	.43	.10	.03	.33	3.37	3.95	5.49	2.71 2.88 3.03 1.73 2.08 .43 .10 .03 .33 3.37 3.95 5.49 26.14
Monthly Mean Snowfall	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0	0.0 0.0 0.0 0.0	0.0	0.0	E	E
			Peri	od of Re	scord:	Jan. 58	- Aug.	1 9					

Wind (Knots)

Peak Gust: W 55 Knots (November 1963)

Period of Record: Aug. 62 - Aug. 64

MORON DE LA FRONTERA, SPAIN
Percentage Frequencies of Occurrence
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MORON DE LA FRONTERA, SPAIN

Percentage Frequencies of Occurrence of Specified Weather Conditions

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0.0 indicates that the condition has occurred less than 0.06 percent of the time, but more than 0.00 percent of the time.

⁻ indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

MORON DE LA FRONTERA, SPAIN

Percentage Frequencies of Occurrence of Specified Weather Conditions

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MORON DE LA FRONTERA, SPAIN

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BLOEMFONTEIN (HERTZOG), SOUTH AFRICA (Lat. 29°08'S, Long. 26°18'E, Elev. 4,459 ft)

Bloemfontein is situated in a relatively flat portion of South Africa's interior plateau. Hertzog Airport (elevation 4,459 feet) lies about five miles to the east-northeast of the city.

The continental climate of the area is a result of its inland location; however, it is not so far removed from the coasts that it is not effected by cyclonic disturbances which move inland from the South Atlantic. Air-mass thundershowers during the hot months, November through March, are the predominant sources of precipitation. The annual total is about 22 inches.

The station's temperatures reflect the modifying effects of its near 4,500-foot elevation. For example, Bloemfontein's mean annual temperature of 59.4°F. is about ten degrees lower than that of Durban which lies less than 300 miles to the east but is only twenty-five feet above mean sea level.

Such phenomena as snow, hail, fog, dust, and smoke do occur; however, their occurrences very seldom limit the visibility below minimum flying conditions. Low ceilings are even less a problem as a flying weather restriction.

The data for Bloemfontein were derived from observations made at Tempe Airport because of the greater amount of data available from there than from J. B. M. Hertzog Airport. Tempe Airport is located at latitude 29°07' South, longitude 26°11' East, at an elevation of 4,678 feet above mean sea level. This is about ten miles west-southwest of Hertzog Airport.

The following data, except for the Temperature and Precipitation Summary, are based on observations made at 0800 and 1400 Local Standard Time from January 1949 through November 1953. These data should be used with caution because of the short period of record.

Temperature and Precipitation Summary BLOEMFONTEIN, SOUTH AFRICA* (With peak gust when available)

				Ľ	mperati	re (°F)							
	Jan.	Feb.	Mar.	Apr.	May	Feb. Mar. Apr. May June July Aug. Sep. Oct. 1	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Monthly Mean Maximum Temperature	86.0	9,48	81.5	71.6	67.5	86.0 84.6 81.5 71.6 67.5 60.6 61.5 67.5 78.3 80.2 80.4 85.1 75.4	61.5	61.5	78.3	80.2	80.4	85.1	75.4
Monthly Mean Minimum Temperature	59.7	57.0	54.3	2.44	34.5	59.7 57.0 54.3 44.2 34.5 28.4 26.8 31.6 41.7 49.1 53.1 56.3 44.8	26.8	31.6	41.7	1,64	53.1	56.3	8.44
Monthly Mean Temperature	72.0	70.0	6.99	57.0	50.0	72.0 70.0 66.9 57.0 50.0 43.3 42.8 48.9 60.1 64.4 66.6 70.3 59.4	42.8	48.9	60.1	ተ. ተ9	9.99	70.3	59.4
			ď	riod of	P Record	Period of Record: 1937 - 1960	1960	_					

Absolute Maximum Temperature: 100.2°F

15.4°F Absolute Minimum Temperature: Period of Record: 1937 - 1960

				Preci	pitatio	n (Inch	les)						
	Jen.	Feb.	Feb. Mar.	Apr.	May	June	Apr. May June July	y Aug. S	Sep.	Sep. Oct.	Nov.	Dec.	Annual
Monthly Mean Precipitation	3.37	3.22	2.98	2.11	.93	.28	.41	99.	3.22 2.98 2.11 .93 .28 .41 .66 .81 1.99 2.56 2.70	1.99	2.56	2.70	22.02
Monthly Mean Snowfall	No Data	øj 43											

Wind (Knots)

Period of Record: 1937 - 1960

Period of Record: 1937 - 1960 Peak Gust: WSW 79 Knots (December, year not available)

*Data were recorded at the Tempe Airport, Bloemfontein, which is 10 miles WNW of the J. B. M. Hertzog Airport.

BLOEMFONTEIN, SOUTH AFRICA
Percentage Frequencies of Occurrence
of Specified Weather Conditions

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A blank indicates that the date are not available.

BLOEMFONTEIN, SOUTH AFRICA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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Percentage Frequencies of Occurrence of Specified Weather Conditions

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REGGAN(E), ALGERIA (Lat. 26°42'N, Long. 0°17'E, Elev. 935 ft)

Reggan is located over 650 miles inland from both the Mediterranean Sea and the Atlantic Ocean. The immediate surroundings of the station are typical of the North African desert - a prevalence of sand.

The major climatic controls of this area are the semipermanent pressure systems, the Intertropical Convergence Zone (I.T.C.), and the migratory cyclonic and anticyclonic systems. The effect of all these controls is either accentuated or diminished by the extensive desert regions surrounding the area and by the Atlas Mountains to the northwest of the station.

In the winter a ridge of high pressure extends into northern Africa from the North Atlantic or Azores high, while at the same time a heat produced low prevails in equatorial Africa. During the summer the high moves north, allowing the Sahara to be dominated by a trough of low pressure that is an extension of the heat low over southwestern Asia. These mean pressure patterns bring about a general northeasterly surface flow over Reggan in the winter months. This flow shifts more to an easterly direction during the summer.

Occasionally the normal pressure patterns are interrupted by the passage of cyclonic systems, the majority of which move to the north of Algeria; however, much of the country still comes under the influence of these systems. Moisture that normally would be drawn inland with these systems generally is precipitated on the windward slopes of the Atlas Mountains.

Ceilings and visibilities generally are good throughout the year except for periods of blowing dust or sand. Such visibility restrictions are predominant from February to September and occur most often during mid day. Seldom lasting more than several hours, these conditions infrequently reduce visibilities below three miles. With maximum convectional overturning occurring during the summer, blowing sand or dust particles may be carried as high as 20,000 feet elevation, thus restricting visibility aloft.

REGGAN(E), ALGERIA (Cont'd)

The average annual precipitation is less than one inch. It is not unusual for a station in this area to go without measurable precipitation for more than a year. Generally, there are fewer than 10 occurrences of thunderstorms each year. Rarely is a thunderstorm accompanied by hail.

The following data, except for the Temperature and Precipitation Summary, are based on the following periods of record:

Hour	Period of Record
0000	Mar. 1959-July 1961, except Aug. and Sept. 1959
0300	Feb. 1966-May 1967
0600	MarDec. 1959, June-Aug. 1960, JanDec. 1961,
	Jan. 1965-May 1967
0900	Jan. 1966-May 1967
1200	FebNov. 1950, Apr. 1951-Feb. 1952, AprOct. 1952,
	Dec. 1952, Apr. 1959-Feb. 1960, Apr. 1960-Dec. 1961,
	JanOct. 1965, Dec. 1965-May 1967
1500	Feb. 1966-May 1967
1800	MarDec. 1959, JanDec. 1961, Jan. 1965-May 1967

Because of the short period of record, these data should be used with caution. The same is true of the Absolute Maximum Temperature and the Absolute Minimum Temperature quoted in the Temperature and Precipitation Summary.

REGGAN(E), ALGERIA Temperature and Precipitation Summary (With peak gust when available)

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	Jen.	Feb.	Jan. Feb. Mar.	Apr.	May	June	July	Aug.	Apr. May June July Aug. Sep. Oct.	Oct.	Nov.	Dec.	Annuel
Monthly Mean Maximum Temperature	17	92	†8	76	100	110	114	112	106	95	81	72	93
Monthly Mean Minimum Temperature	91	51		57 66		73 83	87	98	80	70	26	84	19
Monthly Mean Temperature	59	79	17	80 Period o	80 87 97 101 Period of Record: 15 Years	97 ord: 1	101 5 Years	8	93	83	69	9	80

Absolute Maximum Temperature: +119°F

Absolute Minimum Temperature: + 32°F

Period of Record: 4 Years

Annua1 .65 0.0 Dec. .05 0.0 Nov. .10 0.0 Oct. .20 0.0 Sep. 0.0 0.0 Aug. .05 0.0 Precipitation (Inches) Apr. May June July Period of Record: 4 Years 0.0 0.0 0.0 0.0 0.0 0.0 .05 .05 Mar. .05 0.0 Feb. .05 0.0 .05 Jan. 0.0 Monthly Mean Precipitation Monthly Mean Snowfall

REGGAN(E), ALGERIA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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REGGAN(E), ALGERIA Percentage Frequencies of Occurrence of Specified Weather Conditions

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⁻⁻ indicates that the condition has occurred exactly 0.00 percent of the time.

REGGAN(E), ALGERIA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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MANUAL ANNUAL MA

AMBALA, INDIA (Lat. 30°23'N, Long. 76°46'E, Elev. 892 ft)

Ambala is located about 125 miles north of New Delhi. Its elevation is about 892 feet. Less than 200 miles to the northwest there are several Himalayan peaks in excess of 25,000 feet.

The climate of Ambala strongly reflects the presence of the monsoon conditions. Precipitation is only one of several parameters that are affected by the monsoon. Temperatures, winds, and visibilities also show a marked change at the onset of the monsoon season.

The effects of the summer monsoon are first felt about the last week of June and continue until mid September. About two-thirds of the annual rainfall total of 33 inches falls during this period. Thunderstorms are most numerous during the first month of the monsoon season.

Ceilings and visibilities are reduced during the monsoon because of low clouds and precipitation. At the same time the rains greatly reduce the problem of blowing dust.

Prevailing winds are from the northwest except during the monsoon period when they shift to a southeasterly direction. This is determined by the monsoon low which forms to the southwest of Ambala. Wind speeds are generally light regardless of direction. The mean annual speed is only 3.1 knots.

The following data, except for the Temperature and Precipitation Summary, are based on the following periods of record:

Local Standard Time	Period of Record
0200	JanJuly 1957, Sept. 1957-May 1959, Dec. 1959,
	FebMay 1960, JanSept. 1961, Nov. 1961-Jan.
	1962, MarApr. 1962, June 1962, AugDec. 1962
0500 and 1100	July 1957-Dec. 1958, Jan. 1961-Dec. 1962
0800 and 1700	Jan. 1954-Dec. 1963
2300	Jan. 1957-Dec. 1962

Since the period of record varies from hour to hour, some caution should be exercised when comparing different hours, and when using data for hours for which the period of record is short (0200, 0500, and 1100 Local Standard Time).

AMBALA, INDIA Temperature and Precipitation Summary

			With	peak	gust	when	avail	able)	•				
	Jen.	Feb.	Mar.	To Apr.	emperati May	ure (°F) June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Temperature (°F) Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec. Annual
Monthly Mean Maximum Temperature	69	73	₹8	96	96 10h	104	96	93	76	85	82	72	88
Monthly Mean Minimum Temperature	143	84		99	76	57 66 76 81	19	78	78 7 ¹ 4	8	20	र्ग न	63
Monthly Mean Temperature	95	19	11	81 Period	90 of Rec	93 ord: 4	81 90 93 88 Period of Record: 45 Years	86	₹8	11	99	58	92

Absolute Maximum Temperature: +118°F

Absolute Minimum Temperature: + 30°F

Period of Record: 45 Years

				Preci	pitatio	n (Inch	(89)	•	Č	4	į	0.00	Annuel
	Jen.	Feb. Mar.		Apr.	Apr. May June July A	June	July	Aug.	Aug. Sep.	:	5		
Monthly Mean Precipitation	1.32	1.87	₹6.	19 .	.73	3.04	9.61	7.89	5.11	.87	.19	.76	1.87 .94 .61 73 3.04 9.61 7.89 5.11 .87 .19 .76 32.97
Monthly Mean Snowfall	0.0	0.0	0.0	0.0 Period	0.0 0.0 0.0 0.0 0.0 0.0 Period of Record: 45 Years	0.0 ord: ½	0.0 F Years	0.0	0.0	0.	0.0	0.0	0.0

AMBALA, INDIA

Percentage Frequencies of Occurrence of Specified Weather Conditions

Total Occurrences of Colsive to Maion

	Dust (Blowing and/or Sumpended)			i	1	į	7	7	Dust (Blowing and/or Suspended)	3.0		-	11.3	3.0		3.3	8.5
	Blowing Snow								Nowing Snow								
	Smoke and/or Haze	1	ļ	2.5	5.9	ŗ	۲.	4:	szek To\bns salom2	1	8.0	7.3	8.7	3.3		0.4	5.5
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Ŧ	Stania To\bna nisS								Rain and/or Drizzle								
au.	Thunder (With or Withou	i	1.4	!	}	-4	۲	-4,	Thunder (With or Without Precipitation)	i	İ		1.3	į	i	1.	vi
	C70mg Coxer 53/10	8.8	11.8	72.5	8. 0.	10.0	76.1	6.01	Cloud Cover 23/10	59.3	3	78.3	4	, 4,	2	73.0	73.5
	Cellings <4000 Pt and/o	100.0	93.6	8.3	11.2	77.2	98.5	9.68	Cellings <4000 Ft and/or Visibilities <5 Mi	100.0	93.0	40.6	88 99	5	2	°:	80.0
	Cellings <2000 Ft and/o	12.5	12.8	14.8	11.2	19.1	15.4	15.6	Cellings <2000 Ft and/or Visibilities <3 Mi	15.6	16.3	19.9	23.4	9	1 2.	17.4	18.5
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•	BJOAJUE SHOW	İ															
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AMBALA, INDIA

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AMBALA, INDIA

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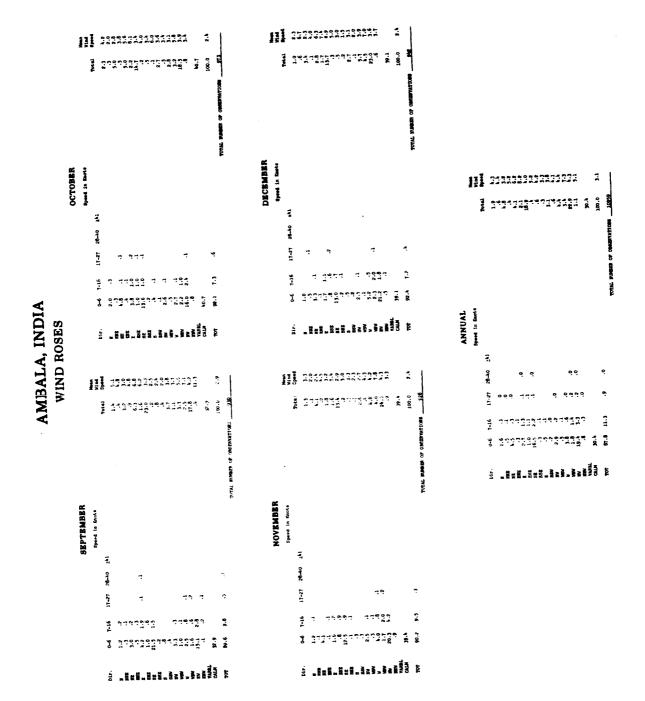
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DHAHRAN, SAUDI ARABIA (Lat. 26°16'N, Long. 50°10'E, Elev. 78 ft)

Dhahran Airfield lies about two miles inland from the western boundary of the Persian Gulf. The surrounding area consists, for the most part, of low lying desert, much of which is uninhabited.

As Dhahran is located on the downwind or southeast side of the Arabian Desert, its climate is greatly affected by the desert's presence. On one hand, the desert reduces potential precipitable atmospheric moisture which in turn reduces the potential rainfall, while on the other hand, it provides a ready source of dust and sand particles. It is these particles, when carried aloft by the shamal or northwesterly winds, that often reduce visibilities below acceptable landing conditions.

In the summer months these shamal winds are created by the semi-permanent low pressure area over northwest India. On the average, these winds vary in speed from 10 to 30 knots.

Shamal winds also occur in the winter months. Unlike those which occur in the summer, these winds are associated with western depressions that move across the Arabian Peninsula from the Mediterranean area. Occasionally these depressions give rise to vigorous shamals which occur without any forewarning, such as a falling barometer or associated frontal cloud development.

Annual precipitation amounts at Dhahran are highly variable, averaging about three inches and usually occurring exclusive of the summer months. Thunderstorms are infrequent in the months from October through May, and they are almost non-existent in the intervening months. The development and occurrence of thunderstorms in this area are coincidental either with the approach or passage of the western depressions and their attending frontal systems. If fog occurs at Dhahran, it is usually of the sea type, occurring mostly in April during the morning hours and clearing by late morning.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations per day from February 1946 through June 1956.

DHAHRAN, SAUDI ARABIA Temperature and Precipitation Summary (With peak gust when available)

				Ĕ	emperati	ure (°F)					1		
	Jan.	Feb.	Feb. Mar.	Apr.	Mey	Apr. May June July Aug.	July	Aug.	Sep.	Oct.	Nov.	Dec	Annual
Monthly Mean Maximum Temperature	69	72	42	8	66	106	101	108	103	95	83	73	8
Monthly Mean Minimum Temperature	54	26	61	69	7.1	83	98	85	8	73	9	57	17
Monthly Mean Temperature	62	₫	70 Peri	80 of of B	88 ecord:	70 80 83 95 97 97 Period of Record: Feb. 46 - June 56	97 5 – June	97	8	₹8	72	65	81

Absolute Maximum Temperature: +120°F

Absolute Minimum Temperature: + 40°F

Period of Record: 10 Years

	Jan.	Feb.	Mar.	Prec.	ipitatio May	m (Inch June	les) July	Aug.	Sep.	Oct.	Nov.	Dec.	Precipitation (Inches) Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec. Annual
Monthly Mean Precipitation	.45	.55	.58	.07	.05	8.	8.	8.	8.	Ħ	.10	1.20	.45 .55 .58 .07 .05 .00 .00 .00 T .10 1.20 3.00
Monthly Mean Snowfall	0.0	0.0	0.0	0.0	0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 ne 56;]	0.0 Jess Fel	0.0 3. 46 sr	0.0	0.0 84	0.0	0.0	0.0

DHAHRAN, SAUDI ARABIA Percentage Frequencies of Occurrence of Specified Weather Conditions

	Total Occurrences of Total Occurrences of Salaka											Occurrences of uction	LatoT ratadO									
	Dust (Blowing and/or											(Blowing end/or	bust Suspe									
	Blowing Snow											Aous Fu	Brown									
	Sanke and/or Hase											end/or Hase	Smoke									
	204												Pod									
	Total Occurrences of Precipitation	2.0	3.5	4.5	2.4	3.4	3.1	3.6	1.8	2.5		Occurrences of pitation	fotel foord	1.2	1.9	6.	æ.	٠.	-₹.	εó	1:1	ė
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	Cloud Cover £3/10	4.89	67.3	6.12	55.1	\$2.9	50.9	9.	ų.	æ,		COVET 43/10		71.6	-	ĸ,	e ;	80.		ď.		
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30	Sellings <2000 Pt and/o	9.8	4	7.7	11.2	11.2	8.8	5.1	5.3	1.6	10	o\bma 34 000S> #8m	C*177	1.6	1.6	6.1	8.5	9.6	6.7	5.6	1.7	4.9
	Number of Observations	181	26	98	98	99	867	Ž.	823	6,751		anoisevread to Te	edanu H	80	610	865	176	97.8	456	97.8	870	7,211
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	Smoke and/or Here Showing Snow Showing and/or Submeded Total Occurrences of											(Blowing and/or ended)	Smoke Blow: Buset Suspi									
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	Smoke and/or Here Showing Snow Showing and/or Submeded Total Occurrences of	2.5	2.9	2.5	5.3	1.9	2.6	9.1	2.7	2.4		Ing Snow (Blowing and/or scaled)	Total Smoke Smoke Smoke Smoke	5.3	7.4	5.9	3.2	2.7	3.3	2.9	2.9	4.1
	Free:piterion Supported and/or Hate Backs and/or Hate Stown Stown	2.5	2.9	2.5	2.3	1.9	2.6	1.9	2.1	2.4		I Occurrences of iptaction and/or Here and/or Here (Stowing and/or Categorian (Stowing and/or Categorian (Stowing and/or Categorian (Stowing and/or	Total Smoke Smoke Smoke Smoke	5.3	4.7	6.6	3.2	2.1	3.3	2.9	2.9	1.1
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DHAHRAN, SAUDI ARABIA Percentage Frequencies of Occurrence

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DHAHRAN, SAUDI ARABIA WIND ROSES

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DHAHRAN, SAUDI ARABIA WIND ROSES

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ALICE SPRINGS, AUSTRALIA (Lat. 23°48'S, Long. 133°53'E, Elev. 1,790 ft)

Alice Springs is located in the center of the continent, which is nearly as large as the United States. It is well over 500 miles from the nearest ocean, its source of moisture. Furthermore, the Australian Continent lies under the influence of the quasi-stationary sub-tropical high pressure system. Combined, these two factors help produce the desert-like climate of this station.

Low humidities restrict precipitation amounts, but increase the frequency of clear skies and good visibilities. The annual rainfall averages just under ten inches with maximum amounts falling during the summer months.

Most precipitation falls from air-mass thunderstorms. Strong winds, heavy rains, and hail sometimes accompany these storms.

Good visibilities are a result not only of low humidities but also of an absence of industrial air pollution. Visibilities are reduced generally by either blowing or suspended dust.

The following data, except for the Temperature and Precipitation Summary, are based on observations made at 0600, 1200, and 1800 Local Standard Time from January 1947 through June 1958.

ALICE SPRINGS, AUSTRALIA Temperature and Precipitation Summary (With peak gust when available)

	Jen.	Feb.	Mar.	Te Apr.	mperatu May	re (°F) June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Temperature (°F) Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec. Annual
Monthly Mean Maximum Temperature	76	95	8	81	73	73 67 67	£9	73	81	88	93	96	83
Monthly Mean Minimum Temperature	9	69	63	63 54 46 hl	91	14	39	1,3	6† E†	58	3	89	55
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Monthly Mean Precipitation	1.70	1.30	1.30 1.10 .40 .60 .50 .30 .30 .30 .70 1.20 1.50	04.	.60	.50	.30	.30	.30	.70	1.20	1.50	9.90
Monthly Mean Snowfall	No Data	ej.											

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SPRINGS, A	
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Percentage Frequencies of Occurrence of Specified Weather Conditions

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ALICE SPRINGS, AUSTRALIA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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ALICE SPRINGS, AUSTRALIA Percentage Frequencies of Occurrence of Specified Weather Conditions

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PERTH (GUILDFORD), AUSTRALIA (Lat. 31°56'S, Long. 115°58'E, Elev. 49 ft)

Perth lies on a narrow coastal plain in the southwest corner of Australia. Inland, the coastal plain gives way to the low mountains of the Darling Range. These mountains average no more than 2,000 feet in elevation, however, they provide sufficient orographic lifting to aid in the condensation and precipitation of moisture brought inland from over the Indian Ocean.

Over half of the annual rainfall total of 34 inches occurs in the three winter months of June, July, and August. Much of this precipitation originates from cyclones or frontal systems. These frontal systems are sometimes accompanied by thundershowers. During the remaining months of the year most thundershowers are of the air-mass type.

Temperatures reflect the modifying effects of the nearby ocean. Both diurnal and seasonal mean temperature ranges are small, the average being about 20°F. With the occurrence of hot, dry winds from the desert regions to the northeast, high temperature extremes are more predominant than low ones. Freezing temperatures rarely occur at Perth.

Due to increased atmospheric moisture and added pollution sources, average ceilings and visibilities at Perth are lower than at Alice Springs. Perth is less troubled than Alice Springs, though, with low visibilities caused by blowing dust.

The following data, except for the Temperature and Precipitation Summary, are based on observations made at 0600, 1200, and 1800 Local Standard Time from 1948 through 1957.

PERTH, AUSTRALIA
Temperature and Precipitation Summary
(With peak gust when available)

				ĕ	mperati	re (°F)							
	Jan.	Feb.	Mar.	Apr.	May	Feb. Mar. Apr. May June July Aug. Sep. Oct. 1	July	Aug.	Sep.	oct.	Nov.	Dec.	Annuel
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Monthly Mean Minimum Temperature	63	63	63 61	57	53	20	8th 8th 05	84	20	53	57	57 61	55
Monthly Mean Temperature	₹.	ተ ፈ		19	61	71 67 61 57 56	56	95	59		62 67 71	17	₹9
				Period	of Reco	ord: 41	Years						

Absolute Maximum Temperature: 112°F

Absolute Minimum Temperature: 31°F

Period of Record: 47 Years

				Preci	pitatic	on (Inch	les)						
	Jan.	Feb.	Feb. Mar.	Apr.	May	June	Apr. May June July Aug. Sep. Oct. Nov.	Aug.	Sep.	Oct.	Nov.	Dec.	Dec. Annual
Monthly Mean Precipitation	.30	04.	8.	1.70	5.10	7.10	6.70	5.70	3.40	2.20	.80	.40 .80 1.70 5.10 7.10 6.70 5.70 3.40 2.20 .80 .50 34.7	34.7
Monthly Mean Snowfall	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0
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PERTH, AUSTRALIA Percentage Frequencies of Occurrence of Specified Weather Conditions

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PERTH, AUSTRALIA

Percentage Frequencies of Occurrence of Specified Weather Conditions

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HONOLULU (INTERNATIONAL AIRPORT), HAWAII (Lat. 21°20'N, Long. 157°55'W, Elev. 15 ft)

Oahu, on which Honolulu is located, is the third largest of the Hawaiian Islands, and is marked by two important mountain systems - the Koolau Range, at an average elevation of 2,000 feet, paralleling the northeast coast, and the Waianae Mountains paralleling the west coast. The business and Waikiki districts of the city of Honolulu lie along the coast leeward of the Koolau Range.

The climate of Honolulu is tropical in nature, with only slight variations of temperature. The January mean differs from the August mean by about 7°F., while the mean daily range is about 6°F. The precipitation, however, is highly variable from year to year and month to month. The mean monthly precipitation varies from 0.5 inches in July to about 4 inches in January, with a mean annual value of about 22 inches. One or two locations in the nearby Koolau Range receive as much as 300 inches per year. Rain falls most frequently at night. Thunderstorms are infrequent and usually of light intensity. Severe storms are rare.

Because of the persistence and moderate humidity of the northeasterly trade winds, August and September, although warm, are usually comfortable. Unpleasant weather is more likely to occur later in the autumn or early winter when the trades may diminish or give way to southerly winds. During these periods, known locally as "Kona Weather," the humidity may become oppressively high.

The following data, except for the Temperature and Precipitation Summary, are based on twenty-four hourly observations per day from June 1939 through July 1949 and November 1949 through May 1967.

HONOLULU, HAWAII Temperature and Precipitation Summary (With peak gust when available)

				Ĕ	emperatu	rre (~F)	_						
	Jan.	Feb.	Mar.	Apr.	May	Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec.	July	Aug.	Sep.	oct.	Nov.	Dec.	Annual
Monthly Mean Maximum Temperature	79.6	79.3	19.9	81.1	82.9	79.6 79.3 79.9 81.1 82.9 84.5 85.3 86.1 86.2 85.0 82.7 80.1	85.3	86.1	86.2	85.0	82.7	80.1	82.7
Monthly Mean Minimum Temperature	65.5	9.59	66.5	68.2	70.0	65.5 65.6 66.5 68.2 70.0 72.0 73.0 73.7 73.0 71.9 69.8 67.5 69.7	73.0	73.7	73.0	71.9	69.8	67.5	69.7
Monthly Mean Temperature	72.8	72.7	73.4	74.9	76.7	72.8 72.7 73.4 74.9 76.7 78.5 79.4 80.1 79.8 78.6 76.4 74.0 76.4	79.4	80.1	79.8	78.6	16.4	74.0	16.4
			Ā	riod of	r Record	Period of Record: 1939 - 1967	06T - 7						

Absolute Maximum Temperature: +93°F

Absolute Minimum Temperature: +54°F

Period of Record: June 39 - July 49, Nov. 49 - May 67

				Prec	[pitatic	n (Inch	les)				,		Precipitation (Inches)
	Jen.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	oct.	Nov.	Dec.	Annual
Monthly Mean Precipitation	40.4	2.53	3.19	1.31	1.14	45.	.50	.70	69.	1.85	2.83	3.17	4.04 2.53 3.19 1.31 1.14 .24 .50 .70 .69 1.85 2.83 3.17 22.16
Monthly Mean Snowfall	0.0	0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			P	eriod of	! Record	Period of Record: 1939 - 1967	- 1967						

Wind (Knots)

Peak Gust: NE 53 Knots (January 1955)

Period of Record: Jan. 46, Nov. 52 - June 57, Aug. 66 - May 67

HONOLULU, HAWAII

Percentage Frequencies of Occurrence of Specified Weather Conditions

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0.0 indicates that the condition has occurred less than 0.05 percent of the time, but more than 0.00 percent of the time.

⁻ indicates that the condition has occurred exactly 0.00 percent of the time. A blank indicates that the data are not available.

HONOLULU, HAWAII
Percentage Frequencies of Occurrence
of Specified Weather Conditions

	Surving Snow Dank (Mowing end/or Moving Snow	1	i	!	1	1	1	1	1	1		20/9 cm S e	ond garbook hvolk) med (belenged	 	i	1	•	1	1		1	1
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0.0 indicates that the condition has occurred less than 0.08 percent of the time, but more than 0.00 percent of the time. — indicates that the condition has occurred exactly 0.00 percent of the time.

A blank indicates that the data are not available.

Percentage Frequencies of Occurrence HONOLULU, HAWAII

of Specified Weather Conditions

OCTOBER

SEPTEMBER

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