

2002

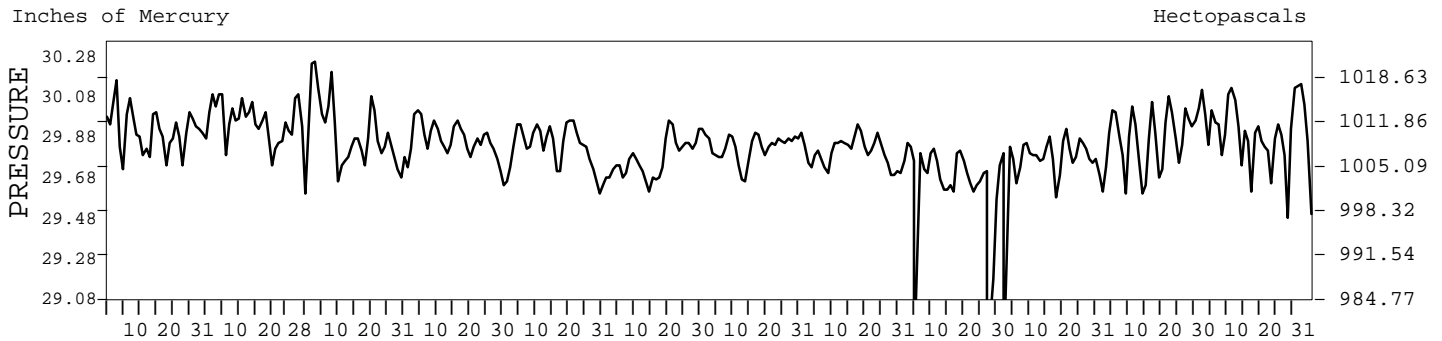
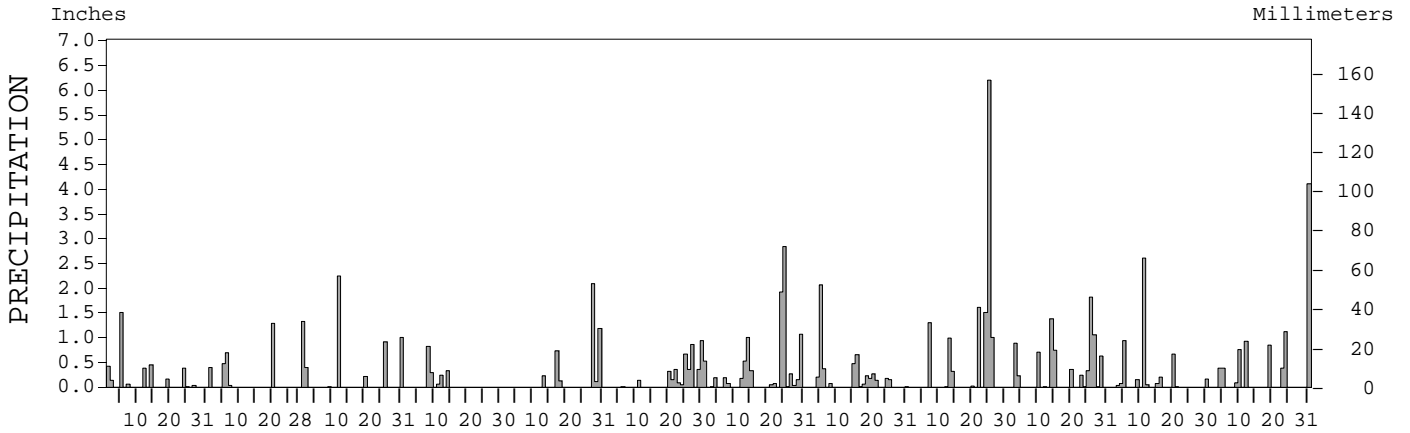
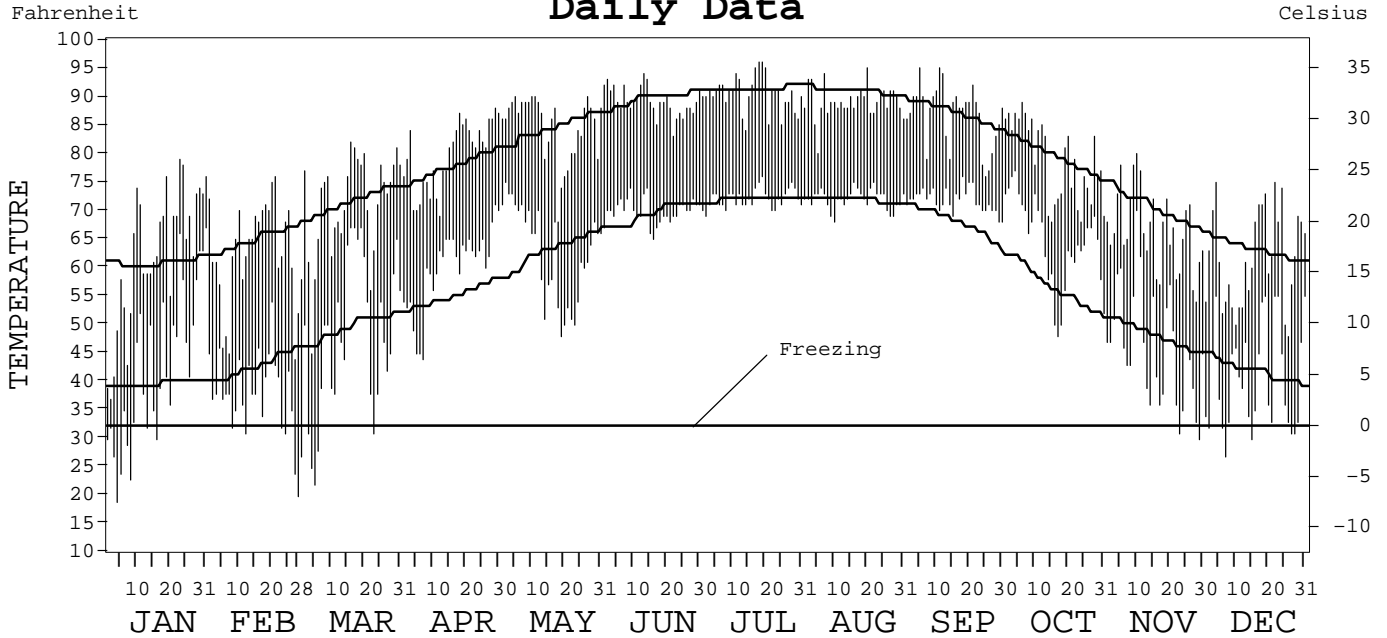
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0197-9507

## MOBILE, ALABAMA (MOB)

### Daily Data



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

*Thomas R. Karl*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 2002

## MOBILE, AL (MOB)

LATITUDE: 30° 41' 18" N      LONGITUDE: 88° 14' 44" W      ELEVATION (FT): GRND: 209      BARO: 212      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 13894

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	62.5	62.6	70.8	79.7	84.7	89.2	90.4	89.1	86.8	78.7	66.6	61.7	76.9
	HIGHEST DAILY MAXIMUM	79	76	82	88	90	94	96	95	95	89	80	75	96
	DATE OF OCCURRENCE	23	21	16	29	27+	13	19+	20	11+	06	10	22+	JUL 19+
	MEAN DAILY MINIMUM	42.5	38.0	47.3	59.8	62.6	69.9	72.1	72.0	71.8	64.4	45.8	40.5	57.2
	LOWEST DAILY MINIMUM	19	20	22	44	48	65	69	68	68	48	30	27	19
	DATE OF OCCURRENCE	04	28	05	07	19	16	02	10	30+	17	29	07	JAN 04
	AVERAGE DRY BULB	52.5	50.3	59.1	69.8	73.7	79.6	81.3	80.6	79.3	71.6	56.2	51.1	67.1
	MEAN WET BULB	50.1	44.4	54.7	64.2	66.6	72.6	75.2	74.3			52.1	47.3	
	MEAN DEW POINT	47.3	37.2	50.2	60.5	62.1	70.0	73.0	71.8			48.4	43.0	
	NUMBER OF DAYS WITH:													
MAXIMUM ≥ 90°	0	0	0	0	4	11	22	13	10	0	0	0	0	60
MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM ≤ 32°	9	6	6	0	0	0	0	0	0	0	2	6	29	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	404	405	238	24	10	0	0	0	0	18	279	424	1802
	COOLING DEGREE DAYS	26	0	60	176	285	444	513	488	435	230	22	0	2679
RH	MEAN (PERCENT)	83	65	77	77	71	78	81	79	81	86	78	77	78
	HOUR 00 LST	92	77	88	90	86	92	93	90	91	94	87	86	89
	HOUR 06 LST	91	80	89	91	87	91	93	93	93	96	91	87	90
	HOUR 12 LST	69	47	62	59	51	57	63	61	66	72	63	59	61
	HOUR 18 LST	82	57	73	69	63	75	78	73	78	85	79	76	74
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	6	1	9	8	2	1	1	2	1	4	0	4	39
	THUNDERSTORMS	1	1	4	1	5	15	21	14	10	9	2	4	87
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
PR	NUMBER OF DAYS WITH:													
	CLEAR													
	PARTLY CLOUDY													
	CLOUDY													
WINDS	MEAN STATION PRESS. (IN.)	29.91	29.96	29.89	29.86	29.82	29.77	29.83	29.80		29.78	29.89	29.89	
	MEAN SEA-LEVEL PRESS. (IN.)	30.14	30.20	30.12		30.05	30.00	30.06			30.01	30.12	30.12	
PRECIPITATION	RESULTANT SPEED (MPH)	1.3	3.2	1.6	2.0	1.3	1.7	0.4	0.4		2.3	1.7	0.4	
	RES. DIR. (TENS OF DEGS.)	17	36	13	17	02	11	24	08		06	35	07	
	MEAN SPEED (MPH)	7.9	8.2	9.2	7.9	8.2	6.1	4.3	5.5	6.9	6.8	7.2	7.8	7.2
	PREVAIL. DIR. (TENS OF DEGS.)	01	33	15	21	18	15	17	04	05	36	01	14	15
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	32	29	29	32	24	26	28	35	48	32	28	43	48
	DIR. (TENS OF DEGS.)	22	17	27	14	01	06	18	02	13	14	01	22	13
	DATE OF OCCURRENCE	19	20+	31	08	18+	29	22	19	26	03	12	24	SEP 26
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	41	36	35	41	31	31	46	40	57	41	38	63	63
DIR. (TENS OF DEGS.)	22	15	25	14	02	04	33	02	13	16	19	22	22	
DATE OF OCCURRENCE	19	19	31	08	18	30+	24	19	26	03	05	24	DEC 24	
SNOWFALL	WATER EQUIVALENT:													
	TOTAL (IN.)	3.52	2.87	6.08	1.74	4.45	4.24	9.38	5.02	12.94	8.35	4.92	8.97	72.48
	GREATEST 24-HOUR (IN.)	1.50	1.28	2.24	1.11	2.19	0.98	4.75	2.24	6.19	2.36	2.63	4.10	6.19
	DATE OF OCCURRENCE	05	20	12	08-09	28-29	29-30	24-25	04-05	25	26-27	11-12	31	SEP 25
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	10	5	7	5	6	12	18	15	9	14	11	9	121
	PRECIPITATION ≥ 0.10	7	4	6	4	6	9	12	11	7	11	6	8	91
PRECIPITATION ≥ 1.00	1	1	3	0	2	0	4	1	5	3	1	2	23	
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
	GREATEST 24-HOUR (IN.)	T	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
	DATE OF OCCURRENCE	03+		31										MAR 31
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	0	0
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	





HEATING DEGREE DAYS (base 65°F) 2002 MOBILE, AL (MOB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	0	0	18	91	377	108	288	106	49	0	0	1037
1974-75	0	0	0	58	215	336	276	185	183	70	0	0	1323
1975-76	0	0	9	11	211	402	475	174	100	8	0	0	1390
1976-77	0	0	0	149	430	520	738	355	141	28	0	0	2361
1977-78	0	0	0	73	149	439	731	551	268	16	0	0	2227
1978-79	0	0	0	20	53	355	613	401	152	8	4	0	1606
1979-80	0	0	0	43	246	424	267	454	159	52	0	0	1645
1980-81	0	0	0	63	235	420	581	323	180	9	4	0	1815
1981-82	0	0	5	42	113	463	485	323	161	48	0	0	1640
1982-83	0	0	5	63	185	296	545	383	306	119	4	0	1906
1983-84	0	0	7	60	243	529	582	363	218	69	10	0	2081
1984-85	0	0	2	17	270	172	665	397	84	50	1	0	1658
1985-86	0	0	1	22	69	503	469	251	188	40	0	0	1543
1986-87	0	0	0	43	105	433	500	311	193	106	0	0	1691
1987-88	0	0	0	108	194	283	565	421	214	33	0	0	1818
1988-89	0	0	0	53	122	363	254	335	170	81	2	0	1380
1989-90	0	0	6	71	204	630	326	186	128	71	0	0	1622
1990-91	0	0	2	58	145	287	382	258	156	13	0	0	1301
1991-92	0	0	3	32	344	342	477	236	165	77	16	0	1692
1992-93	0	0	0	18	276	297	307	340	260	110	3	0	1611
1993-94	0	0	0	64	278	464	543	260	182	46	0	0	1837
1994-95	0	0	0	35	93	304	426	281	148	41	3	0	1331
1995-96	0	0	0	29	263	445	489	381	323	97	3	0	2030
1996-97	0	0	0	48	212	346	440	293	63	80	5	0	1487
1997-98	0	0	0	89	296	475	390	313	266	60	0	0	1889
1998-99	0	0	0	24	94	287	319	234	204	30	3	0	1195
1999-00	0	0	2	52	162	414	363	242	85	68	0	0	1388
2000-01	0	0	6	45	302	579	542	208	262	36	0	0	1980
2001-02	0	0	4	95	89	312	404	405	238	24	10	0	1581
2002-	0	0	0	18	279	424							

WBAN : 13894

COOLING DEGREE DAYS (base 65°F) 2002 MOBILE, AL (MOB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	1	80	98	303	508	598	518	462	293	110	10	2981
1974	85	19	91	88	332	392	539	517	323	81	45	36	2548
1975	21	44	57	115	363	475	529	524	325	183	85	11	2732
1976	0	17	74	160	245	454	578	504	321	48	4	0	2405
1977	0	4	74	132	333	543	579	576	482	85	31	7	2846
1978	0	0	17	127	329	496	560	573	507	177	64	34	2884
1979	0	6	28	144	267	448	512	509	361	146	16	5	2442
1980	2	17	61	89	305	495	618	571	512	110	25	9	2814
1981	0	4	15	195	217	538	595	557	366	185	60	4	2736
1982	17	2	119	118	296	475	502	503	342	177	54	53	2658
1983	0	0	4	27	229	351	532	514	271	140	29	2	2099
1984	0	3	24	96	249	401	469	435	327	261	16	34	2315
1985	4	2	77	133	275	452	461	504	339	227	108	7	2589
1986	0	15	31	79	295	486	573	489	444	158	89	8	2667
1987	4	0	21	99	341	422	527	544	373	41	27	28	2427
1988	7	10	21	108	251	442	529	513	404	67	61	20	2433
1989	16	33	74	116	289	431	498	523	366	114	31	0	2491
1990	7	23	34	80	267	493	525	569	417	155	29	36	2635
1991	1	6	66	149	348	448	528	513	371	176	23	22	2651
1992	0	9	31	97	249	437	548	454	373	102	20	13	2333
1993	5	2	21	33	224	455	554	559	408	165	37	0	2463
1994	0	18	33	161	268	443	469	485	357	155	66	6	2461
1995	0	12	55	106	338	416	554	571	417	145	20	35	2669
1996	1	23	30	69	335	419	526	473	349	125	44	17	2411
1997	15	18	109	42	236	377	521	519	435	163	7	0	2442
1998	0	0	31	73	359	531	581	569	412	196	49	52	2853
1999	24	25	11	212	280	432	516	611	340	173	19	3	2646
2000	16	32	48	69	377	446	607	592	383	151	67	0	2788
2001	1	27	16	177	303	427	524	492	338	104	62	12	2483
2002	26	0	60	176	285	444	513	488	435	230	22	0	2679

SNOWFALL (inches) 2002 MOBILE, AL (MOB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1974-75	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
1975-76	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
1976-77	0.0	0.0	0.0	0.0	0.0	T	1.9	0.0	0.0	0.0	0.0	0.0	1.9
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	0.4	T	0.0	0.0	0.0	0.0	0.4
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1982-83	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
1983-84	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1985-86	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
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	T
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	T	0.0	0.0	1.7
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1989-90	T	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T
1991-92	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
1992-93	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	2.7
1993-94	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1995-96	T	0.0	0.0	0.0	0.0	T	0.0						
1996-97						1.0							
1997-98													
1998-99				0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	T
2002-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 58 YRS	T	0.0	0.0	0.0	T	0.1	0.1	0.1	0.1	T	T	0.0	0.4

WBAN : 13894

REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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## 2002 MOBILE, ALABAMA (MOB)

Mobile is located at the head of Mobile Bay and approximately 30 miles from the Gulf of Mexico. Its weather is influenced to a considerable extent by the Gulf.

The summers are consistently warm, but temperatures are seldom as high as they are at inland stations. Normally, in summer, the day begins in the low 70s and the temperature rises rapidly before noon to the high 80s or low 90s, when it is checked by the onset of the sea breeze. On the rare occasions when northerly winds prevail throughout the day, temperatures may reach the high 90s or rise slightly above 100 degrees.

Winter weather is usually mild except for occasional invasions of cold air that last about three days. January is the coldest month in the year. Unusual winters may produce readings that require extensive protective measures as some citrus fruit is grown in the area and outdoor nurseries are numerous.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is November 26 and the average last occurrence in the spring is February 27.

The yearly rainfall is among the highest in the United States. It is fairly evenly distributed throughout the year with a slight maximum at the height of the summer thunderstorm season and a slight minimum during the late fall. Rainfall is usually of the shower type and long periods of continuous rain are rare.

Frontal thunderstorms may occur in any month of the year. There may be a thunderstorm every other day in July and August. The summer storms are usually not too violent and seldom produce hail.

The area is subject to hurricanes from the West Indies, the western Caribbean, and the Gulf of Mexico.

# STATION LOCATION

MOBILE, ALABAMA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE  M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS
						GROUND											
						SEA LEVEL	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER			
*NOTE: <u>AIRPORT</u> Bates Field; 12 miles West of Post Office	2/20/50	02/01/96	2850' W	30°41'	88°15'	211	a22 i33	6 c	h26		e4 g26	d4 g26	4 f	b4 j5		a. 56 feet to 3/29/62. b. Telepsychrometer (6') 2/20/50-3/24/61. Hygro. comm. 3/24/61, & moved 1700' NW on 3/20/62. c. Removed 3/30/62. d. Installed at 4 feet 5/6/58, relocated at 26 feet 12/28/63, decommissioned 9/2/65 and commissioned again at 4 feet 7/1/67. e. Commissioned 9/2/65. f. Removed prior to 1965. g. Moved to roof 7/01/72. h. Installed on roof 7/1/72. i. Raised 3/9/82. j. Minor adjustment and type change 10/23/85.	
Bates Field	02/01/96	Present	NA	30°41'	88°15'	k209								S		ASOS Commissioned 02/01/96  k. Ground Elevation	

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\* NOTES: For earlier station history see previous edition.