



MARCH 2001

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

HOUSTON, TX

INTERCONTINENTAL AIRPORT (IAH)
 Lat: 29°59' N Long: 95°21' W Elev (Ground): 118 Feet
 Time Zone: CENTRAL WBAN: 12960 ISSN #:0198-5094

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES						DATE	
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		DEPTH	WATER EQUIV	SNOW FALL	WATER EQUIV	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM				
																			5-SEC		2-MIN		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	53	48	51	-6	50	50	14	0	TSRA RA DZ BR	0		0.0	0.14	29.81	29.93	5.3	34	5.8	14	34	10	32	01
02	54	49	52	-5	52	52	13	0	TSRA RA BR	0		0.0	1.45	29.66	29.77	4.1	01	5.4	18	05	16	07	02
03	55	45	50	-7	51	52	15	0	RA DZ BR	0		0.0	0.33	29.57	29.69	5.3	31	6.5	26	31	21	30	03
04	69	40	55	-3	44	49	10	0	BR	0		0.0	0.00	29.96	30.08	5.4	30	5.8	21	32	15	32	04
05	70	41	56	-2	41	48	9	0		0		0.0	0.00	30.19	30.31	4.5	32	5.6	20	31	15	32	05
06	68	38*	53	-5	42	47	12	0		0		0.0	0.00	30.14	30.25	1.9	13	2.6	14	08	13	08	06
07	72	40	56	-2	46	51	9	0	BR	0		0.0	0.00	30.08	30.20	3.5	13	4.1	17	12	15	11	07
08	67	47	57	-2	56	57	8	0	TS TSRA RA BR	0		0.0	1.06	29.87	29.99	3.9	12	6.8	22	33	17	32	08
09	65	46	56	-3	50	53	9	0	BR	0		0.0	0.00	29.93	30.04	4.9	33	5.7	20	30	14	33	09
10	67	41	54	-5	49	52	11	0		0		0.0	0.00	29.86	29.98	7.7	12	8.1	23	12	21	14	10
11	68	59	64	5	63	64	1	0	RA BR	0		0.0	0.16	29.72	29.83	8.8	11	9.2	22	12	20	14	11
12	82*	51	67*	7	57	62	0	2	TSRA RA BR	0		0.0	0.13	29.68	29.79	3.2	25	4.8	26	28	22	29	12
13	77	45	61	1	51	56	4	0		0		0.0	0.00	29.88	29.99	1.9	11	3.1	15	06	13	06	13
14	65	51	58	-2	55	56	7	0	TS TSRA GR RA FG+ BR	0		T	1.82	29.69	29.80	5.6	07	8.7	39*	32	33*	11	14
15	70	50	60	0	47	53	5	0	FG BR	0		0.0	0.00	29.66	29.77	6.9	28	8.7	26	31	21	30	15
16	69	43	56	-5	41	48	9	0		0		0.0	0.00	29.95	30.06	6.1	36	7.5	24	32	17	34	16
17	65	47	56	-5	39	47	9	0		0		0.0	0.00	30.03	30.14	9.4	06	9.9	26	07	20	06	17
18	66	41	54	-7	40	46	11	0	RA	0		0.0	T	30.04	30.15	5.7	02	7.5	25	08	18	33	18
19	61	46	54	-8	39	46	11	0		0		0.0	0.00	30.07	30.18	8.0	32	8.4	24	29	18	33	19
20	66	41	54	-8	39	46	11	0		0		0.0	0.00	30.06	30.18	8.1	31	8.4	24	32	20	31	20
21	75	39	57	-5	42	49	8	0		0		0.0	0.00	30.03	30.14	1.1	24	2.4	13	17	12	16	21
22	76	42	59	-3	50	54	6	0	BR	0		0.0	0.00	29.92	30.03	4.6	16	5.0	24	13	20	15	22
23	78	50	64	2	57	60	1	0	FG+ BR	0		0.0	0.00	29.89	30.00	6.0	12	6.9	20	12	17	12	23
24	76	56	66	4	59	61	0	1	RA BR	0		0.0	0.01	29.94	30.05	2.5	36	5.8	25	01	20	36	24
25	68	47	58	-5	46	52	7	0	BR	0		0.0	0.00	30.10	30.21	7.4	02	8.1	21	02	16	02	25
26	65	42	54	-9	42	48	11	0		0		0.0	0.00	30.11	30.22	3.7	08	6.3	21	08	14	08	26
27	54	44	49*	-14	42	45	16	0	TSRA RA BR	0		0.0	2.22	30.02	30.14	9.7	06	10.4	29	02	23	08	27
28	60	48	54	-9	52	53	11	0	TSRA RA BR	0		0.0	0.51	29.75	29.86	5.8	05	8.0	26	34	16	10	28
29	61	48	55	-9	54	55	10	0	RA DZ BR	0		0.0	0.13	29.68	29.80	3.6	33	4.4	16	32	12	36	29
30	66	44	55	-9	50	52	10	0	RA BR	0		0.0	0.01	29.77	29.88	3.2	36	4.0	18	03	14	02	30
31	76	45	61	-3	54	57	4	0	MIFG BR	0		0.0	0.00	29.84	29.96	0.6	36	1.5	12	34	9	32	31

67.2	45.6	56.4	■ ■	48.4	52.3	8.5	0.1	< MONTHLY AVERAGES	TOTALS->	T	7.97	29.90	30.01	2.0	03	6.3	<- MONTHLY AVERAGES					
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-3.9	-4.4	-4.2	■ ■	->-----DEPARTURE FROM NORMAL-----<						5.05	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3													
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DEGREE DAYS								GREATEST 24-HR PRECIPITATION: 2.73 DATE :27-28				SEA LEVEL PRESSURE				DATE		TIME	
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: T DATE :14				MAXIMUM				: 30.38		05 0953	
HEATING: 262 75				1804 241				GREATEST SNOW DEPTH: 0 DATE :				MINIMUM				: 29.58		14 1353	
COOLING: 3 -47				56 -21				NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 12					
								MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 10							
								THUNDERSTORMS : 7		HEAVY FOG : 2		SNOWFALL ≥ 1.0 INCH : 0							

MARCH 2001
HOUSTON, TX

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

MARCH 2001

IAH

WBAN # 12960

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01				T	T						0.01	01	0.01	0.02	0.04	0.01		T	0.03	0.01	0.01	T	01			0.14			
02				0.15	0.64	0.18	0.01	T	T	T		02	0.01	0.15	0.07	0.04	0.18	0.01	T	T			02			1.45			
03	0.09	0.01	T	T		0.02	0.07	0.01	0.03	0.02	0.03	03	T	0.01	T	0.04	T	0.01	T			03			0.33				
04												04											04			0.00			
05												05											05			0.00			
06												06											06			0.00			
07												07											07			0.00			
08											T	08	0.03	0.11	0.06	0.04	0.04	T	T	0.01	0.72	0.05	08			1.06			
09												09											09			0.00			
10												10											10			0.00			
11												11	0.01	0.10	0.05								11			0.16			
12						0.11	0.02	T				12											12			0.13			
13												13											13			0.00			
14	T				T		T	0.02	0.01	T	T	14	0.03	0.04		1.28	0.42	0.01				14			1.82				
15												15											15			0.00			
16												16											16			0.00			
17												17											17			0.00			
18												18						T	T				18			T			
19												19											19			0.00			
20												20											20			0.00			
21												21											21			0.00			
22												22											22			0.00			
23												23											23			0.00			
24												24				T	T	0.01					24			0.01			
25												25											25			0.00			
26												26											26			0.00			
27	0.09	0.17	0.04	0.05	T	T	T	T	T		0.01	27	0.04	0.02	0.11	0.38	0.29	0.32	0.50	0.20	0.18	0.12	0.03	0.02	27		2.22		
28												28											28			0.51			
29			T	T							T	29			T								29			0.13			
30												30											30			0.01			
31												31					0.01	T					31			0.00			

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.45	.73	.88	.99	1.13	1.22	1.31	1.52	1.64	1.70	1.71	1.71
Ending Date	14	14	14	14	14	14	14	14	14	14	14	14
Ending Time (Hour/Min)	1504	1509	1514	1519	1529	1544	1558	1619	1639	1650	1700	1700

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one)

T = Trace precipitation amount

+ = also occurs on earlier date

FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1961–1990

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '-' = Light

HOUSTON, TX MARCH 2001

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.00	7.00	
02							.50	10.00	
03							.50	10.00	
04							3.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							6.00	10.00	
08							1.00	10.00	
09							1.75	10.00	
10							10.00	10.00	
11							2.00	10.00	
12							5.00	10.00	
13							10.00	10.00	
14							.25	10.00	
15							.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							2.00	10.00	
23							.25	10.00	
24							.25	10.00	
25							6.00	10.00	
26							10.00	10.00	
27							1.25	10.00	
28							.50	10.00	
29							.50	10.00	
30							2.00	10.00	
31							4.00	10.00	
MONTHLY AVGS							5.19	9.90	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									
2 14 12									

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

MARCH 2001

IAH

WBAN # 12960

HOUR (LST)	SATellite		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATellite		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0647					MAR 01					SUNSET: 1820					SUNRISE: 0640					MAR 07					SUNSET: 1824				
03	OVC	004	1.00	BR	49	49	49	100	6	34	29.86	29.98	03	SCT	NC	10.00		42	42	42	100	0	00	30.08	30.20				
06	OVC	002	0.50	BR	49	49	49	100	7	33	29.86	29.97	06	SCT	NC	10.00		42	42	42	100	0	00	30.11	30.22				
09	OVC	002	0.25	BR	49	49	49	100	6	36	29.83	29.94	09	SCT	NC	8.00		55	48	51	77	5	06	30.15	30.27				
12	OVC	002	0.00	-RA BR	51	51	51	100	6	35	29.82	29.94	12	SCT	NC	10.00		67	44	55	44	5	12	30.14	30.26				
15	OVC	006	2.00	+RA BR	52	52	52	100	5	31	29.76	29.88	15	SCT	NC	10.00		72	43	57	35	6	VR	30.04	30.16				
18	OVC	005	2.00	BR	49	49	49	100	8	33	29.75	29.87	18	SCT	NC	7.00		65	48	56	54	12	13	30.02	30.14				
21	OVC	009	4.00	-RA BR	49	49	49	100	3	30	29.78	29.90	21	FEW	NC	6.00	BR	57	54	55	90	3	16	30.05	30.16				
24	OVC	003	7.00		50	49	49	96	0	00	29.76	29.88	24	CLR	NC	6.00	BR	53	52	52	96	0	00	30.03	30.14				
SUNRISE: 0646					MAR 02					SUNSET: 1821					SUNRISE: 0639					MAR 08					SUNSET: 1825				
03	OVC	002	0.75	BR	50	50	50	100	6	07	29.68	29.80	03	CLR	NC	1.75	BR	48	48	48	100	0	00	29.97	30.08				
06	OVC	006	7.00	-RA	50	50	50	100	6	03	29.67	29.79	06	CLR	NC	4.00	BR	49	49	49	100	3	05	29.95	30.07				
09	OVC	007	10.00		51	50	51	96	6	35	29.72	29.84	09	BKN	250	10.00		60	55	57	84	10	10	29.95	30.06				
12	OVC	006	10.00		54	53	53	97	8	04	29.67	29.79	12	OVC	044	10.00		64	57	60	78	8	08	29.92	30.03				
15	OVC	007	8.00	-RA	54	53	53	97	0	00	29.62	29.74	15	OVC	014	2.50	-RA BR	61	60	60	97	12	13	29.80	29.92				
18	OVC	017	10.00		54	54	54	100	6	35	29.62	29.74	18	OVC	011	2.50	BR	63	62	62	97	12	13	29.75	29.86				
21	OVC	007	10.00		54	53	53	97	6	36	29.63	29.74	21	OVC	019	4.00	-TSRA BR	58	58	58	100	6	28	29.79	29.91				
24	OVC	003	0.50	-RA	53	53	53	100	8	01	29.56	29.67	24	OVC	008	10.00		55	54	54	96	10	31	29.81	29.92				
SUNRISE: 0645					MAR 03					SUNSET: 1821					SUNRISE: 0638					MAR 09					SUNSET: 1825				
03	OVC	005	0.50	-RA	53	53	53	100	7	32	29.52	29.64	03	OVC	008	10.00		52	51	52	97	8	30	29.84	29.96				
06	OVC	005	6.00	-RA BR	52	52	52	100	5	36	29.52	29.64	06	OVC	028	10.00		52	50	51	93	9	30	29.89	30.01				
09	OVC	006	7.00		53	53	53	100	5	35	29.53	29.65	09	OVC	015	9.00		54	52	53	93	3	32	29.98	30.09				
12	OVC	006	3.00	DZ BR	53	53	53	100	9	32	29.52	29.64	12	BKN	034	10.00		60	51	55	72	7	01	30.00	30.11				
15	OVC	008	2.50	-RA BR	54	52	53	93	8	25	29.51	29.63	15	BKN	045	10.00		65	50	57	59	9	34	29.93	30.04				
18	SCT	NC	10.00		52	49	50	89	9	32	29.57	29.68	18	FEW	NC	10.00		62	49	55	62	5	34	29.91	30.03				
21	OVC	017	10.00		51	48	50	89	6	30	29.69	29.81	21	CLR	NC	10.00		50	49	49	96	0	00	29.93	30.05				
24	CLR	NC	7.00		46	46	46	100	0	00	29.75	29.87	24	FEW	NC	10.00		46	46	46	100	0	00	29.95	30.06				
SUNRISE: 0644					MAR 04					SUNSET: 1822					SUNRISE: 0637					MAR 10					SUNSET: 1826				
03	CLR	NC	7.00		44	44	44	100	5	26	29.80	29.92	03	FEW	NC	10.00		43	43	43	100	0	00	29.93	30.04				
06	BKN	250	3.00	BR	41	41	41	100	0	00	29.83	29.94	06	FEW	NC	10.00		44	43	44	96	0	00	29.92	30.04				
09	SCT	NC	8.00		53	50	51	89	5	30	29.96	30.08	09	BKN	250	10.00		54	47	50	77	10	10	29.95	30.07				
12	FEW	NC	10.00		63	50	56	63	10	27	29.97	30.09	12	OVC	250	10.00		64	50	56	61	15	12	29.87	29.99				
15	CLR	NC	10.00		68	44	55	42	10	31	29.96	30.08	15	BKN	046	10.00		65	50	57	59	7	VR	29.81	29.93				
18	CLR	NC	10.00		64	39	52	40	8	33	30.03	30.14	18	BKN	250	10.00		62	53	57	73	15	14	29.77	29.89				
21	CLR	NC	10.00		56	41	49	57	6	30	30.11	30.22	21	OVC	075	10.00		59	54	56	83	12	13	29.80	29.92				
24	CLR	NC	10.00		50	41	46	71	6	30	30.14	30.26	24	OVC	043	10.00		60	56	58	86	12	10	29.74	29.86				
SUNRISE: 0643					MAR 05					SUNSET: 1823					SUNRISE: 0636					MAR 11					SUNSET: 1827				
03	CLR	NC	10.00		42	42	42	100	3	28	30.15	30.27	03	OVC	018	10.00		61	58	59	90	9	12	29.74	29.85				
06	CLR	NC	10.00		42	41	42	96	5	28	30.19	30.31	06	OVC	011	7.00		61	60	60	97	13	10	29.73	29.85				
09	CLR	NC	10.00		55	43	49	64	7	36	30.26	30.37	09	OVC	070	5.00	BR	63	62	62	97	12	09	29.79	29.91				
12	CLR	NC	10.00		66	39	53	37	9	31	30.24	30.35	12	OVC	014	8.00		67	63	64	87	13	10	29.77	29.89				
15	SCT	NC	10.00		69	39	54	33	13	31	30.17	30.29	15	OVC	070	6.00	BR	67	66	66	97	14	12	29.70	29.81				
18	FEW	NC	10.00		65	39	52	39	6	34	30.15	30.27	18	OVC	055	6.00	BR	68	66	67	93	5	09	29.69	29.80				
21	FEW	NC	10.00		49	44	47	83	0	00	30.18	30.29	21	OVC	055	7.00		65	65	65	100	5	13	29.68	29.79				
24	CLR	NC	10.00		43	42	43	97	3	23	30.17	30.29	24	OVC	009	7.00		66	66	66	100	6	14	29.64	29.76				
SUNRISE: 0642					MAR 06					SUNSET: 1823					SUNRISE: 0635					MAR 12					SUNSET: 1827				
03	CLR	NC	10.00		40	39	40	97	0	00	30.13	30.25	03	OVC	006	5.00	BR	69	69	69	100	12	15	29.61	29.72				
06	FEW	NC	10.00		38	38	38	100	0	00	30.15	30.27	06	OVC	030	8.00	RA	62	61	61	96	5	30	29.65	29.76				
09	OVC	250	10.00		52	43	48	72	5	05	30.20	30.32	09	SCT	NC	10.00		66	61	63	84	5	26	29.67	29.78				
12	OVC	250	10.00		62	39	51	43	0	00	30.19	30.30	12	CLR	NC	10.00		78	57	65	48	12	28	29.68	29.80				
15	OVC	250	10.00		66	39	52	37	6	15	30.11	30.22	15	SCT	NC	10.00		81	48	62	32	9	27	29.65	29.76				
18	OVC	250	10.00		62	43	52	50	6	16	30.08	30.20	18	BKN	250	10.00		76	44	59	32	6	27	29.68	29.79				
21	BKN	250	10.00		52	47	49	83	0	00	30.12	30.23	21	SCT	NC	10.00		58	51	54	78	0	00	29.74	29.86				
24	BKN	250	10.00		46	45	46	96	0	00	30.11	30.22	24	BKN	250	10.00		51	50	51	96	0	00	29.79	29.90				

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

MARCH 2001

IAH

WBAN # 12960

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)
SUNRISE: 0633				MAR 13				SUNSET: 1828				SUNRISE: 0626				MAR 19				SUNSET: 1832					
03	BKN	250		10.00	48	48	48	100	0	00	29.81	29.93	03	BKN	055		10.00	49	39	44	69	6	34	30.02	30.14
06	FEW	NC		10.00	46	46	46	100	3	24	29.87	29.98	06	OVC	080		10.00	48	39	44	71	6	35	30.04	30.16
09	BKN	250		10.00	62	52	57	70	8	06	29.94	30.05	09	OVC	070		10.00	51	40	46	66	8	31	30.10	30.21
12	BKN	250		10.00	72	52	61	50	9	10	29.93	30.04	12	BKN	055		10.00	58	40	49	51	7	34	30.08	30.20
15	OVC	140		10.00	75	50	61	42	0	00	29.87	29.98	15	SCT	NC		10.00	60	39	50	46	13	33	30.04	30.15
18	OVC	130		10.00	69	55	61	61	0	00	29.87	29.98	18	SCT	NC		10.00	56	37	47	49	12	32	30.05	30.16
21	OVC	130		10.00	65	57	60	76	5	15	29.86	29.97	21	FEW	NC		10.00	50	38	44	63	6	31	30.09	30.21
24	OVC	095		10.00	65	53	58	66	3	19	29.87	29.99	24	CLR	NC		10.00	46	38	42	73	7	28	30.11	30.22
SUNRISE: 0632				MAR 14				SUNSET: 1829				SUNRISE: 0625				MAR 20				SUNSET: 1832					
03	OVC	085		10.00	59	57	58	93	0	00	29.82	29.93	03	CLR	NC		10.00	44	37	41	76	6	30	30.08	30.19
06	OVC	120		10.00	60	57	58	90	7	09	29.78	29.90	06	CLR	NC		10.00	41	37	39	86	6	28	30.08	30.20
09	OVC	095		10.00	63	54	58	73	10	06	29.75	29.87	09	FEW	NC		10.00	53	39	46	59	9	33	30.12	30.23
12	OVC	034		10.00	61	56	58	84	13	09	29.72	29.83	12	FEW	NC		10.00	61	37	49	41	13	33	30.08	30.20
15	OVC	055		10.00	63	52	57	68	21	27	29.59	29.71	15	FEW	NC		10.00	65	38	52	37	14	29	30.00	30.11
18	OVC	095		10.00	55	54	54	96	10	36	29.62	29.73	18	FEW	NC		10.00	63	38	51	40	13	31	29.99	30.10
21	SCT	NC		10.00	54	53	53	97	0	00	29.60	29.72	21	CLR	NC		10.00	50	42	46	74	3	28	30.04	30.16
24	CLR	NC		10.00	53	52	52	96	7	15	29.59	29.70	24	CLR	NC		10.00	43	41	42	93	3	27	30.06	30.18
SUNRISE: 0631				MAR 15				SUNSET: 1829				SUNRISE: 0624				MAR 21				SUNSET: 1833					
03	CLR	NC		10.00	51	51	51	100	0	00	29.54	29.65	03	CLR	NC		10.00	41	40	41	96	0	00	30.04	30.16
06	OVC	003		3.00	53	53	53	100	6	VR	29.53	29.65	06	CLR	NC		10.00	40	39	40	97	0	00	30.05	30.17
09	SCT	NC		10.00	58	56	57	93	8	27	29.63	29.75	09	FEW	NC		10.00	60	45	52	58	5	VR	30.09	30.21
12	CLR	NC		10.00	67	50	58	55	9	29	29.68	29.80	12	SCT	NC		10.00	69	40	54	35	8	28	30.06	30.18
15	CLR	NC		10.00	69	43	55	39	12	29	29.67	29.78	15	FEW	NC		10.00	73	41	56	32	3	VR	29.99	30.10
18	CLR	NC		10.00	67	37	52	33	10	29	29.70	29.81	18	SCT	NC		10.00	68	46	56	45	0	00	29.96	30.07
21	CLR	NC		10.00	54	46	50	75	3	28	29.76	29.87	21	FEW	NC		10.00	60	48	54	65	7	17	29.99	30.10
24	CLR	NC		10.00	54	39	47	57	9	31	29.86	29.97	24	CLR	NC		10.00	49	46	47	90	0	00	29.98	30.10
SUNRISE: 0630				MAR 16				SUNSET: 1830				SUNRISE: 0623				MAR 22				SUNSET: 1834					
03	CLR	NC		10.00	48	39	44	71	8	31	29.90	30.01	03	CLR	NC		8.00	46	46	46	100	0	00	29.95	30.06
06	CLR	NC		10.00	44	39	42	83	5	30	29.96	30.08	06	CLR	NC		2.00	44	44	44	100	0	00	29.94	30.06
09	FEW	NC		10.00	51	40	46	66	7	VR	30.02	30.14	09	FEW	NC		8.00	63	55	58	76	7	16	29.97	30.09
12	OVC	250		10.00	62	43	52	50	6	36	29.99	30.11	12	FEW	NC		10.00	73	49	60	43	13	17	29.96	30.07
15	BKN	250		10.00	68	42	55	39	10	01	29.91	30.02	15	BKN	250		10.00	75	49	60	40	12	16	29.87	29.99
18	BKN	250		10.00	65	41	53	42	8	01	29.89	30.00	18	SCT	NC		10.00	70	53	60	55	8	17	29.84	29.96
21	SCT	NC		10.00	50	45	48	83	3	35	29.96	30.07	21	CLR	NC		10.00	59	54	56	83	7	16	29.88	29.99
24	SCT	NC		10.00	54	39	47	57	8	04	29.97	30.09	24	FEW	NC		9.00	53	52	52	96	0	00	29.90	30.02
SUNRISE: 0629				MAR 17				SUNSET: 1830				SUNRISE: 0621				MAR 23				SUNSET: 1834					
03	BKN	250		10.00	52	39	46	61	8	05	29.99	30.11	03	SCT	NC		6.00	51	51	51	100	0	00	29.87	29.99
06	OVC	250		10.00	50	39	45	66	9	05	30.02	30.13	06	OVC	025		2.50	52	52	52	100	3	07	29.90	30.01
09	OVC	090		10.00	51	38	45	61	10	06	30.08	30.20	09	BKN	027		4.00	62	61	61	96	3	14	29.93	30.05
12	OVC	120		10.00	56	40	48	55	14	05	30.03	30.15	12	BKN	250		10.00	73	58	64	59	6	22	29.93	30.04
15	SCT	NC		10.00	64	38	51	38	8	06	29.98	30.09	15	BKN	050		10.00	78	61	67	56	12	12	29.84	29.96
18	OVC	110		10.00	60	37	49	42	14	08	30.00	30.11	18	BKN	046		10.00	70	60	64	71	14	12	29.83	29.95
21	FEW	NC		10.00	52	38	45	59	9	05	30.05	30.17	21	FEW	NC		10.00	61	59	60	93	7	15	29.86	29.98
24	CLR	NC		10.00	47	40	44	77	6	04	30.06	30.17	24	CLR	NC		4.00	59	58	58	96	3	15	29.88	29.99
SUNRISE: 0627				MAR 18				SUNSET: 1831				SUNRISE: 0620				MAR 24				SUNSET: 1835					
03	SCT	NC		10.00	44	39	42	83	7	04	30.03	30.15	03	BKN	037		6.00	57	57	57	100	0	00	29.87	29.99
06	FEW	NC		10.00	42	39	41	89	5	06	30.02	30.14	06	BKN	001		1.25	60	60	60	100	0	00	29.88	30.00
09	BKN	250		10.00	50	41	46	71	13	07	30.06	30.18	09	OVC	001		0.75	62	62	62	100	3	02	29.98	30.09
12	FEW	NC		10.00	60	42	51	52	8	10	30.05	30.17	12	BKN	120		10.00	74	60	65	62	10	16	29.92	30.03
15	SCT	NC		10.00	65	42	53	44	8	33	29.98	30.10	15	OVC	060		10.00	72	61	65	69	7	02	29.87	29.98
18	OVC	090		10.00	56	40	48	55	10	01	30.00	30.12	18	BKN	040		10.00	68	61	64	78	8	31	29.91	30.03
21	OVC	065		10.00	53	38	46	57	7	35	30.04	30.16	21	OVC	023		10.00	62	57	59	84	10	36	30.00	30.11
24	SCT	NC		10.00	49	39	44	69	5	31	30.04	30.16	24	OVC	010		10.00	57	54	55	90	10	33	30.07	30.18

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

MARCH 2001

IAH

WBAN # 12960

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	OBSERVATION TIME (LST)	EFF CLD AMT Okta		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		OBSERVATION TIME (LST)	EFF CLD AMT Okta		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0619								MAR 25								SUNSET: 1835															
03	OVC	010			6.00	BR		54	52	53	93	13	36	30.08	30.19	03	CLR	NC			4.00	BR		49	49	49	100	0	00	29.77	29.89
06	BKN	035			10.00			52	46	49	80	8	01	30.11	30.22	06	CLR	NC			8.00	MIFG		46	46	46	100	0	00	29.82	29.94
09	BKN	250			10.00			57	40	49	53	12	03	30.16	30.27	09	OVC	040			10.00		57	53	55	87	6	06	29.87	29.99	
12	BKN	250			10.00			63	44	53	50	12	01	30.14	30.25	12	SCT	NC			10.00		70	55	61	59	3	VR	29.88	30.00	
15	OVC	250			10.00			67	46	56	47	10	02	30.06	30.18	15	SCT	NC			10.00		73	56	63	55	0	00	29.82	29.94	
18	BKN	250			10.00			64	45	54	50	8	04	30.04	30.16	18	SCT	NC			10.00		72	60	65	66	0	00	29.81	29.92	
21	BKN	250			10.00			53	45	49	74	3	36	30.08	30.20	21	SCT	NC			9.00		60	59	59	96	0	00	29.87	29.99	
24	FEW	NC			9.00			48	44	46	86	6	36	30.09	30.21	24	FEW	NC			10.00		55	55	55	100	0	00	29.90	30.01	
SUNRISE: 0618								MAR 26								SUNSET: 1836															
03	CLR	NC			10.00			45	43	44	93	0	00	30.08	30.19	03	CLR	NC			10.00		45	43	43	100	0	00	29.82	29.94	
06	SCT	NC			10.00			43	40	42	89	5	35	30.11	30.23	06	SCT	NC			10.00		43	40	42	89	5	35	30.11	30.23	
09	OVC	090			10.00			50	41	46	71	6	05	30.19	30.30	09	OVC	090			10.00		50	41	46	71	6	05	30.19	30.30	
12	BKN	095			10.00			57	38	48	49	8	08	30.17	30.29	12	BKN	095			10.00		57	38	48	49	8	08	30.17	30.29	
15	FEW	NC			10.00			65	41	53	42	13	10	30.07	30.19	15	FEW	NC			10.00		65	41	53	42	13	10	30.07	30.19	
18	BKN	090			10.00			61	42	51	50	7	15	30.06	30.18	18	BKN	090			10.00		61	42	51	50	7	15	30.06	30.18	
21	OVC	100			10.00			57	44	51	62	6	16	30.09	30.21	21	OVC	100			10.00		57	44	51	62	6	16	30.09	30.21	
24	OVC	075			10.00			54	46	50	75	5	03	30.08	30.20	24	OVC	075			10.00		54	46	50	75	5	03	30.08	30.20	
SUNRISE: 0617								MAR 27								SUNSET: 1837															
03	OVC	090			10.00			52	39	46	61	8	06	30.05	30.16	03	OVC	090			10.00		52	39	46	61	8	06	30.05	30.16	
06	OVC	055			10.00			49	38	44	66	9	06	30.06	30.18	06	OVC	055			10.00		49	38	44	66	9	06	30.06	30.18	
09	OVC	045			10.00			49	36	43	61	13	07	30.09	30.21	09	OVC	045			10.00		49	36	43	61	13	07	30.09	30.21	
12	OVC	031			9.00	-RA		48	40	44	74	8	34	30.08	30.20	12	OVC	031			9.00	-RA		48	40	44	74	8	34	30.08	30.20
15	OVC	033			3.00	TSRA BR		44	43	44	96	10	02	30.02	30.14	15	OVC	033			3.00	TSRA BR		44	43	44	96	10	02	30.02	30.14
18	OVC	008			3.00	TSRA BR		46	46	46	100	9	05	29.93	30.05	18	OVC	008			3.00	TSRA BR		46	46	46	100	9	05	29.93	30.05
21	OVC	030			4.00	RA BR		47	47	47	100	10	08	29.97	30.08	21	OVC	030			4.00	RA BR		47	47	47	100	10	08	29.97	30.08
24	OVC	004			5.00	-TSRA BR		48	48	48	100	12	03	29.88	30.00	24	OVC	004			5.00	-TSRA BR		48	48	48	100	12	03	29.88	30.00
SUNRISE: 0615								MAR 28								SUNSET: 1837															
03	OVC	006			9.00	-TSRA		48	48	48	100	7	04	29.84	29.96	03	OVC	006			9.00	-TSRA		48	48	48	100	7	04	29.84	29.96
06	OVC	004			8.00			48	48	48	100	9	06	29.81	29.93	06	OVC	004			8.00			48	48	48	100	9	06	29.81	29.93
09	OVC	004			2.00	BR		49	49	49	100	6	VR	29.82	29.94	09	OVC	004			2.00	BR		49	49	49	100	6	VR	29.82	29.94
12	OVC	008			10.00			56	53	54	90	8	06	29.76	29.88	12	OVC	008			10.00		56	53	54	90	8	06	29.76	29.88	
15	OVC	013			10.00			60	56	58	86	7	VR	29.67	29.79	15	OVC	013			10.00		60	56	58	86	7	VR	29.67	29.79	
18	OVC	016			10.00			59	57	58	93	0	00	29.65	29.76	18	OVC	016			10.00		59	57	58	93	0	00	29.65	29.76	
21	OVC	006			10.00			57	56	56	96	8	01	29.65	29.77	21	OVC	006			10.00		57	56	56	96	8	01	29.65	29.77	
24	OVC	005			1.50	BR		55	55	55	100	5	04	29.68	29.80	24	OVC	005			1.50	BR		55	55	55	100	5	04	29.68	29.80
SUNRISE: 0614								MAR 29								SUNSET: 1838															
03	OVC	003			0.50	-DZ BR		55	55	55	100	5	31	29.64	29.75	03	OVC	003			0.50	-DZ BR		55	55	55	100	5	31	29.64	29.75
06	OVC	005			1.50	BR		55	55	55	100	0	00	29.66	29.78	06	OVC	005			1.50	BR		55	55	55	100	0	00	29.66	29.78
09	OVC	007			2.00	-RA BR		55	55	55	100	0	00	29.69	29.81	09	OVC	007			2.00	-RA BR		55	55	55	100	0	00	29.69	29.81
12	OVC	008			10.00			58	55	56	90	6	33	29.68	29.80	12	OVC	008			10.00		58	55	56	90	6	33	29.68	29.80	
15	BKN	015			10.00			61	55	58	81	9	33	29.63	29.74	15	BKN	015			10.00		61	55	58	81	9	33	29.63	29.74	
18	OVC	029			10.00			59	53	56	81	0	00	29.68	29.80	18	OVC	029			10.00		59	53	56	81	0	00	29.68	29.80	
21	OVC	021			10.00			56	52	54	87	7	33	29.73	29.85	21	OVC	021			10.00		56	52	54	87	7	33	29.73	29.85	
24	FEW	NC			9.00			49	49	49	100	3	25	29.72	29.83	24	FEW	NC			9.00		49	49	49	100	3	25	29.72	29.83	
SUNRISE: 0613								MAR 30								SUNSET: 1838															
03	SCT	NC			7.00			45	45	45	100	3	26	29.70	29.82	03	SCT	NC			7.00		45	45	45	100	3	26	29.70	29.82	
06	FEW	NC			8.00			45	45	45	100	9	33	29.75	29.87	06	FEW	NC			8.00		45	45	45	100	9	33	29.75	29.87	
09	SCT	NC			10.00			56	50	53	81	8	34	29.83	29.95	09	SCT	NC			10.00		56	50	53	81	8	34	29.83	29.95	
12	OVC	130			10.00			62	49	55	62	12	03	29.78	29.90	12	OVC	130			10.00		62	49	55	62	12	03	29.78	29.90	
15	BKN	130			10.00			63	50	56	63	0	00	29.73	29.85	15	BKN	130			10.00		63	50	56	63	0	00	29.73	29.85	
18	BKN	250			10.00			60	53	56	78	5	34	29.74	29.86	18	BKN	250			10.00		60	53	56	78	5	34	29.74	29.86	
21	BKN	100			10.00			56	53	54	90	6	06	29.77	29.89	21	BKN	100			10.00		56	53	54	90	6	06	29.77	29.89	
24	BKN	250			10.00			54	51	52	90	0	00	29.79	29.91	24	BKN	250			10.00		54	51	52	90	0	00	29.79	29.91	

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.

NC= No ceiling detected.

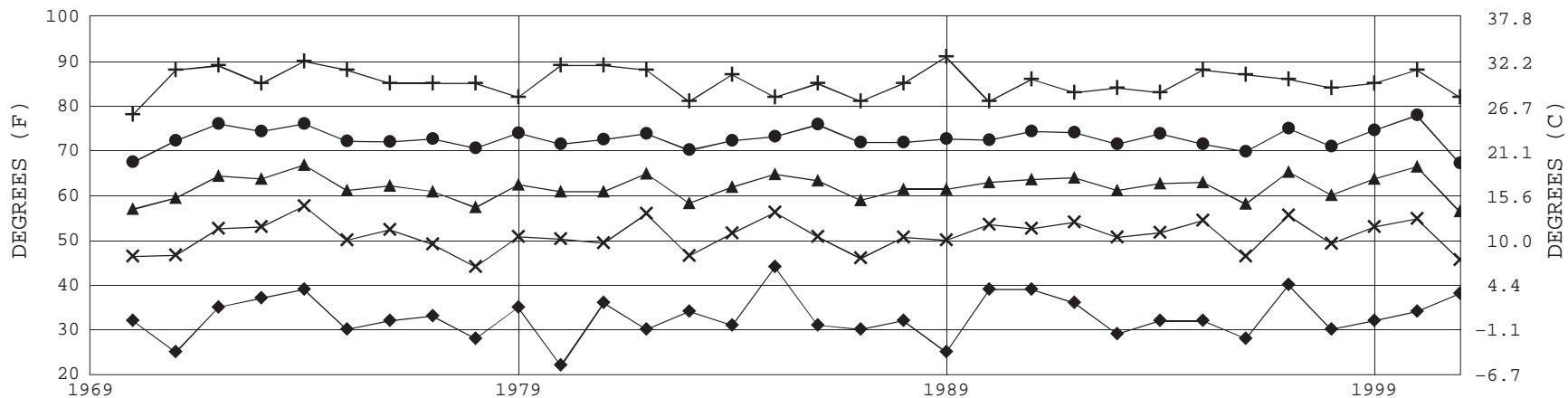
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT</								

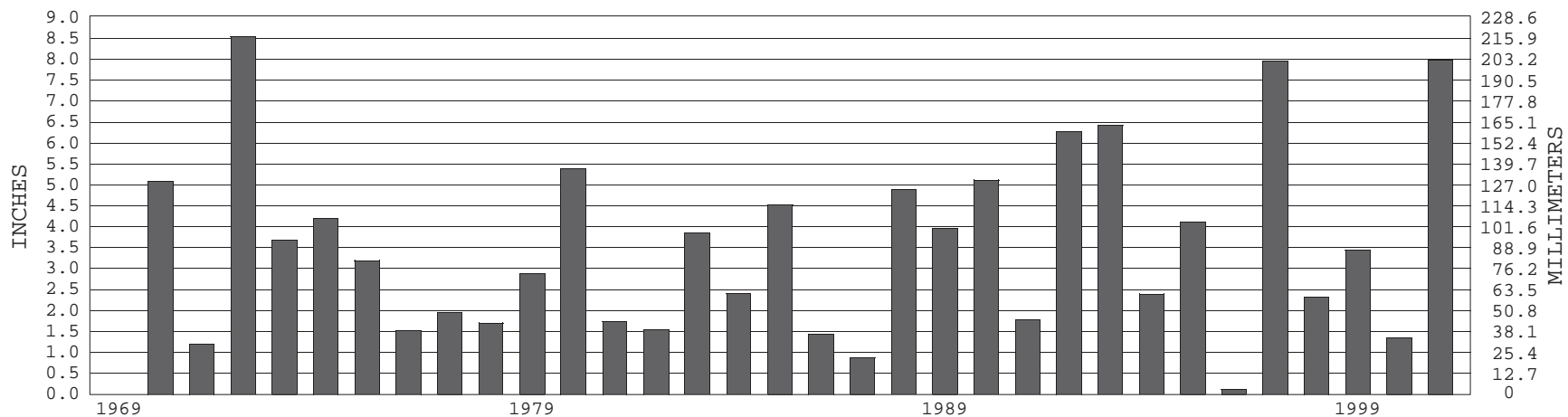
HOUSTON, TX MARCH TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1969-2001) Mean: 60.0 1961-1990 Normal: 60.6

HOUSTON, TX MARCH PRECIPITATION



Long-Term (1969-2001) Mean Monthly Total: 3.45

1961-1990 Normal: 2.92



**MARCH 2001
HOUSTON, TX**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

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