



MARCH 2013 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

HOUSTON, TX
G BUSH INTERCONTINENTAL AP/HOUSTON AP (KIAH)
 Lat:29° 58'N Long: 95° 21'W Elev (Ground) 95 Feet
 Time Zone : CENTRAL WBAN: 12960 ISSN#: 0198-5094



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0600 LST 11	1200 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	65	36	51	-8	28	42	14	0			0.0	0.00	30.11	30.22	6.0	33	6.3	29	29	18	34	01		
02	57	36	47*	-12	25	38	18	0			0.0	0.00	30.19	30.30	11.0	34	11.3	30	30	24	34	02		
03	69	31*	50	-10	33	44	15	0			0.0	0.00	30.03	30.18	5.8	18	6.3	26	15	20	16	03		
04	80	56	68	8	54	59	0	3			0.0	0.00	29.74	29.88	11.4	19	11.5	31	20	18	20	04		
05	69	49	59	-1	37	51	6	0	RA		0.0	0.0	30.06	30.13	10.5	33	15.1	35	35	30	36	05		
06	69	38	54	-6	25	42	11	0			0.0	0.00	30.19	30.30	3.1	01	5.0	21	02	16	04	06		
07	69	40	55	-5	42	48	10	0			0.0	0.00	30.11	30.24	6.2	13	6.9	24	14	17	15	07		
08	72	49	61	0	53	56	4	0			0.0	0.00	30.03	30.16	11.3	13	11.6	26	14	22	14	08		
09	75	61	68	7	60	63	0	3			0.0	0.00	29.78	29.92	13.9	15	14.3	36	15	28	15	09		
10	69	51	60	-1	51	56	5	0	RA BR		0.0	0.42	29.80	29.90	3.5	35	11.1	39*	33	28	33	10		
11	62	40	51	-10	29	43	14	0			0.0	0.00	29.96	30.06	7.3	32	7.5	25	30	17	29	11		
12	73	36	55	-7	32	44	10	0			0.0	0.00	30.06	30.17	1.0	09	1.7	16	14	14	14	12		
13	74	43	59	-3	38	49	6	0			0.0	0.00	30.26	30.35	2.5	08	4.3			15	07	13		
14	75	43	59	-3	44	52	6	0			0.0	0.00	30.22	30.34	6.0	16	6.6	21	12	18	13	14		
15	80	46	63	1	50	56	2	0			0.0	0.00	30.02		6.5	19	7.1	24	17	17	18	15		
16	81	59	70	8	57	61	0	5			0.0	0.00	29.80	29.94	11.2	17	11.7	30	16	24	16	16		
17	82	64	73	10	63	66	0	8			0.0	0.00	29.66	29.79	10.8	17	11.0	28	15	23	15	17		
18	90*	68	79*	16	62	67	0	14			0.0	0.00	29.70	29.80	1.2	23	6.8	24	10	18	36	18		
19	78	59	69	6	56	62	0	4			0.0	0.00	29.84	29.94	8.7	10	10.5	23	15	18	14	19		
20	76	55	66	3	43	53	0	1	RA		0.0	0.12	29.97	30.09	10.5	03	11.7	33	03	24	02	20		
21	74	48	61	-2	50	57	4	0			0.0	0.00	29.71	29.86	11.2	16	11.5	33	15	25	15	21		
22	84	68	76	13	65	68	0	11			0.0	0.00	29.59	29.72	6.4	19	6.9	20	19	15	16	22		
23	74	61	68	5	64	66	0	3	BR HZ		0.0	0.00	29.55	29.67	3.3	02	5.1	14	35	12	36	23		
24	66	47	57	-7	37	48	8	0			0.0	0.00	29.91	29.97	15.7	33	15.9	36	34	28	34	24		
25	62	38	50	-14	24	40	15	0			0.0	0.00	30.18	30.26	9.3	35	9.6	26	35	20	35	25		
26	64	38	51	-13	21	39	14	0			0.0	0.00	30.27	30.39	4.2	35	5.4	25	36	21	36	26		
27	69	37	53	-12	37	47	12	0			0.0	0.00	30.17	30.31	7.2	14	7.9	26	13	20	13	27		
28	72	54	63	-2	53	57	2	0			0.0	0.00	30.10	30.23	10.0	13	10.3	26	13	22	14	28		
29	75	55	65	0	58	61	0	0	RA FG BR		0.0	0.0	30.06	30.18	9.4	14	9.9	28	15	23	15	29		
30	79	63	71	6	61	65	0	6			0.0	0.00	29.93	30.04	7.3	16	8.2	26	15	22	15	30		
31	85	59	72	7	63	65	0	7	TS TSRA RA BR		0.0	0.35	29.82	29.94	5.1	19	7.3	36	03	31*	03	31		
73.2		49.3	61.3	Σ	45.6	53.7	5.7	2.1	< MONTHLY AVERAGES TOTALS >			0.0	0.89	29.96	30.07	1.9	14	8.9	< MONTHLY AVERAGES					
0.2		-3.2	-1.4		<----- DEPARTURE FROM NORMAL ----->							-2.52	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 0.42 DATE : 10				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.50				26 0928							
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.60				23 1753							
SEASON TO DATE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 1		MINIMUM TEMP <= 32 : 1		PRECIPITATION >= 0.01 INCH: 3							
HEATING : 176 35 1106 -223									MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 3											
COOLING : 65 -6 105 -4									THUNDERSTORMS : 1		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0											

**MARCH 2013
HOUSTON, TX**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
MARCH 2013

WBAN # 12960

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	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													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05						T							05												05	T	T	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10				T	0.02	T			0.38	0.02	T	T	10	T										10	0.42	0.42		
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20			T		0.01	0.11	T						20												20	0.12	0.12	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29	T											29	T	T	
30													30												30	0.00	0.00	
31													31			0.35	T								31	0.35	0.35	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hr/Min)												

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

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 1981-2010

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

HOUSTON, TX MARCH 2013

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:

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							7.00	10.00	
09							9.00	10.00	
10							7.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							9.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							8.00	10.00	
18							7.00	10.00	
19							7.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							9.00	10.00	
23							1.00	10.00	
24							8.00	10.00	
25							6.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							0.50	10.00	
30							10.00	10.00	
31							4.00	10.00	
MONTHLY AVGS							8.47	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 22318				
Percent Possible : 0									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY		Cloudy		Missing			
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0				>= 7.0			
0		2				27			

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
MARCH 2013

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)											
			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		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						
SUNRISE: 0648						MAR 01						SUNSET: 1820						SUNRISE: 0641						MAR 07						SUNSET: 1824					
03	FEW	250			10.00		39	33	37	79	0	00	30.10	30.21	03	SCT	250			10.00		44	38	41	80	0	00	30.11	30.22						
06	SCT	250			10.00		38	29	34	70	0	00	30.13	30.24	06	FEW	250			10.00		41	37	39	86	0	00	30.11	30.23						
09	FEW	250			10.00		49	30	41	48	9	34	30.18	30.29	09	BKN	250			10.00		57	42	50	57	5	10	30.18	30.29						
12	FEW	250			10.00		58	24	44	27	9	32	30.14	30.26	12	BKN	250			10.00		65	40	52	40	10	16	30.16	30.28						
15	SCT	250			10.00		64	24	47	22	10	32	30.05	30.16	15	SCT	250			10.00		67	42	54	40	9	14	30.09	30.20						
18	SCT	250			10.00		61	25	46	25	15	33	30.05	30.16	18	SCT	250			10.00		60	47	53	62	17	15	30.09	30.20						
21	SCT	130			10.00		53	29	43	40	7	35	30.10	30.21	21	FEW	250			10.00		53	47	50	80	7	12	30.11	30.22						
24	BKN	110			10.00		50	32	42	50	0	00	30.14	30.24	24	FEW	250			10.00		51	46	49	83	6	12	30.10	30.21						
SUNRISE: 0646						MAR 02						SUNRISE: 1820						SUNRISE: 0640						MAR 08						SUNSET: 1824					
03	SCT	095			10.00		46	31	40	56	10	34	30.16	30.27	03	FEW	250			10.00		51	49	50	93	5	10	30.05	30.16						
06	SCT	085			10.00		41	30	37	65	9	34	30.19	30.32	06	FEW	250			8.00		51	50	50	96	6	10	30.05	30.16						
09	CLR	NC			10.00		44	28	38	53	20	34	30.26	30.37	09	OVC	250			10.00		59	55	57	87	9	11	30.10	30.21						
12	CLR	NC			10.00		51	24	40	35	18	31	30.22	30.34	12	OVC	170			10.00		70	57	62	64	15	14	30.10	30.20						
15	CLR	NC			10.00		56	21	42	26	20	34	30.16	30.28	15	BKN	250			10.00		69	55	61	61	20	13	30.00	30.11						
18	CLR	NC			10.00		53	17	39	24	18	34	30.16	30.29	18	OVC	250			10.00		65	55	59	70	16	15	30.03	30.15						
21	CLR	NC			10.00		47	21	37	36	0	00	30.19	30.30	21	OVC	250			10.00		61	56	58	84	13	13	29.98	30.10						
24	CLR	NC			10.00		36	26	32	67	0	00	30.18	30.29	24	OVC	130			10.00		62	57	59	84	14	14	29.97	30.08						
SUNRISE: 0645						MAR 03						SUNSET: 1821						SUNRISE: 0639						MAR 09						SUNSET: 1825					
03	CLR	NC			10.00		36	28	33	73	3	23	30.14	30.26	03	OVC	130			10.00		62	59	60	90	9	12	29.91	30.01						
06	CLR	NC			10.00		32	28	31	85	0	00	30.16	30.27	06	OVC	130			10.00		63	60	61	90	11	13	29.87	29.98						
09	FEW	250			10.00		48	29	40	48	3	VR	30.19	30.29	09	OVC	150			10.00		67	62	64	84	8	13	29.88	29.99						
12	CLR	NC			10.00		61	27	46	27	8	15	30.13	30.24	12	OVC	028			10.00		73	61	66	66	17	17	29.85	29.95						
15	FEW	250			10.00		68	31	51	25	10	16	30.01	30.12	15	OVC	035			10.00		73	61	66	66	18	17	29.76	29.86						
18	FEW	250			10.00		64	38	51	38	13	17	29.96	30.07	18	OVC	100			10.00		71	60	64	68	20	16	29.72	29.82						
21	FEW	250			10.00		57	44	50	62	10	17	29.95	30.06	21	OVC	036			10.00		69	62	65	79	15	16	29.70	29.81						
24	FEW	250			10.00		57	48	52	72	8	17	29.91	30.01	24	OVC	023			10.00		69	63	65	81	15	15	29.69	29.80						
SUNRISE: 0644						MAR 04						SUNSET: 1822						SUNRISE: 0637						MAR 10						SUNSET: 1826					
03	FEW	250			10.00		57	51	54	80	6	17	29.86	29.97	03	OVC	060			10.00		69	64	66	84	14	14	29.64	29.75						
06	FEW	250			10.00		58	52	55	81	9	19	29.82	29.93	06	OVC	080			9.00		67	65	66	93	11	17	29.64	29.75						
09	SCT	250			10.00		65	55	59	70	13	18	29.81	29.91	09	OVC	036			10.00	-RA	58	53	55	84	10	34	29.78	29.89						
12	SCT	250			10.00		76	55	63	48	17	18	29.77	29.87	12	OVC	060			10.00		60	54	57	81	6	05	29.80	29.91						
15	SCT	250			10.00		79	54	64	42	13	20	29.69	29.80	15	BKN	250			10.00		67	50	58	55	10	35	29.78	29.88						
18	SCT	250			10.00		73	57	63	57	13	18	29.68	29.79	18	BKN	250			10.00		64	39	52	40	11	32	29.80	29.91						
21	SCT	250			10.00		67	60	63	78	10	18	29.70	29.80	21	BKN	250			10.00		56	37	47	49	16	33	29.90	30.01						
24	OVC	021			10.00		67	61	63	81	9	20	29.72	29.83	24	BKN	100			10.00		51	35	44	54	16	35	29.98	30.09						
SUNRISE: 0643						MAR 05						SUNSET: 1822						SUNRISE: 0636						MAR 11						SUNSET: 1826					
03	OVC	021			10.00		68	60	63	76	15	20	29.71	29.82	03	BKN	250			10.00		49	33	42	54	11	34	29.92	30.03						
06	OVC	050			10.00		67	60	63	78	3	28	29.87	29.98	06	BKN	250			10.00		47	32	41	56	3	33	29.97	30.09						
09	FEW	034			10.00		58	39	49	49	22	35	30.03	30.14	09																				
12	SCT	250			10.00		66	36	51	33	20	34	30.08	30.19	12	CLR	NC			10.00		58	24	44	27	13	31	29.98	30.10						
15	FEW	250			10.00		69	26	50	20	21	34	30.06	30.18	15	CLR	NC			10.00		61	21	44	21	15	33	29.91	30.02						
18	SCT	250			10.00		64	22	46	20	16	35	30.10	30.21	18	FEW	100			10.00		59	19	43	21	10	31	29.91	30.02						
21	SCT	250			10.00		55	23	42	29	9	34	30.18	30.29	21	CLR	NC			10.00		46	29	39	52	0	00	29.97	30.08						
24	FEW	250			10.00		49	22	39	35	9	35	30.21	30.32	24	FEW	250			10.00		40	33	37	76	0	00	30.00	30.11						
SUNRISE: 0642						MAR 06						SUNSET: 1823						SUNRISE: 0635						MAR 12						SUNSET: 1827					
03	CLR	NC			10.00		45	22	36	40	7	35	30.22	30.33	03	FEW	250			10.00		40	29	36	65	0	00	29.98	30.09						
06	CLR	NC			10.00		42	23	35	47	6	36	30.24	30.37	06	CLR	NC			10.00		36	31	34	82	0	00	30.01	30.12						
09	SCT	250			10.00		48	24	39	39	14	03	30.30	30.42	09	CLR	NC			10.00		52	32	43	47	3	05	30.09	30.20						
12	SCT	250			10.00		60	23	45	24	3	VR	30.27	30.39	12	CLR	NC			10.00		65	27	48	24	3	06	30.10	30.21						
15	SCT	250			10.00		66	18	46	16	3	08	30.16	30.28	15	CLR	NC			10.00		71	25	50	18	0	00	30.03	30.14						
18	BKN	250			10.00		61	20	44	20	5	03	30.11	30.23	18	FEW	250			10.00		69	30	51	23	0	00	30.03	30.15						
21	BKN	200			10.00		51	29	42	43	0	00	30.14	30.27	21	FEW	250			10.00		56	41	49	57	5	17	30.11	30.23						
24	BKN	200			10.00		53	33	44	47	5	23	30.14	30.26	24	FEW	250			10.00		47	41	44	80	0	00	30.16	30.27						

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
MARCH 2013

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)					
			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		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
SUNRISE: 0634						MAR 13						SUNSET: 1828																	
03	FEW	250			10.00		47	43	45	86	0	00	30.18	30.29	03	BKN	250			10.00		65	54	59	68	8	06	29.81	29.92
06	FEW	250			10.00		48	43	46	83	0	00	30.24	30.35	06	CLR	NC			10.00		61	52	56	72	13	08	29.84	29.94
09	CLR	NC			10.00		60	38	49	44	7	05	30.32	30.44	09	FEW	250			10.00		66	39	52	37	13	10	29.90	30.00
12	CLR	NC			10.00		68	35	52	30	7	05	30.32	30.43	12	FEW	250			10.00		76	55	63	48	11	13	29.87	29.98
15	CLR	NC			10.00		72	34	53	25	6	12	30.22	30.34	15	BKN	250			10.00		78	60	67	54	8	12	29.80	29.91
18	FEW	250			10.00		70	34	52	27	7	10	30.22	30.33	18	OVC	250			7.00		72	62	66	71	13	14	29.80	29.91
21	CLR	NC			10.00		59	43	51	56	6	17	30.24	30.36	21	OVC	250			8.00		68	63	65	84	9	13	29.83	29.94
24	CLR	NC			10.00		49	43	46	80	0	00	30.27	30.37	24	OVC	200			9.00		67	63	65	87	8	06	29.87	29.98
SUNRISE: 0633						MAR 14						SUNSET: 1828																	
03	CLR	NC			10.00		43	40	42	89	3	34	30.24	30.35	03	OVC	048			10.00	-RA	61	45	53	56	10	01	29.96	30.06
06	CLR	NC			10.00		46	44	45	93	0	00	30.26	30.37	06	OVC	095			10.00	-RA	55	52	53	90	15	10	29.97	30.08
09	CLR	NC			10.00		61	52	56	72	5	15	30.30	30.41	09	OVC	011			10.00		57	53	55	87	11	01	30.08	30.19
12	CLR	NC			10.00		71	41	55	34	9	18	30.29	30.40	12	CLR	NC			10.00		70	49	58	47	17	04	30.06	30.16
15	CLR	NC			10.00		74	38	56	27	9	13	30.19	30.31	15	CLR	NC			10.00		74	33	54	22	15	04	29.98	30.09
18	CLR	NC			10.00		67	45	55	45	10	14	30.16	30.28	18	FEW	250			10.00		71	32	52	24	8	03	29.95	30.06
21	CLR	NC			10.00		61	46	53	58	9	17	30.19	30.30	21	FEW	250			10.00		60	37	49	43	8	04	29.96	30.06
24	CLR	NC			10.00		56	47	51	72	5	17	30.16	30.28	24	BKN	250			10.00		59	35	48	41	5	13	29.93	30.03
SUNRISE: 0632						MAR 15						SUNSET: 1829																	
03	CLR	NC			10.00		47	45	46	93	0	00	30.13	30.24	03	BKN	200			10.00		52	41	47	66	0	00	29.89	30.00
06	CLR	NC			10.00		47	45	46	93	0	00	30.11	30.23	06	BKN	110			10.00		51	40	46	66	0	00	29.85	29.96
09	FEW	035			10.00		65	56	60	73	7	VR	30.14	30.25	09	BKN	250			10.00		64	50	56	61	13	14	29.84	29.95
12	FEW	035			10.00		76	51	62	42	8	20	30.10	30.21	12	BKN	250			10.00		73	46	58	38	24	15	29.78	29.89
15	FEW	065			10.00		79	48	61	34	14	17	29.98	30.09	15	OVC	100			10.00		70	53	60	55	16	17	29.66	29.77
18	FEW	055			10.00		74	51	61	45	9	20	29.96	30.07	18	OVC	055			10.00		68	55	60	63	14	16	29.63	29.73
21	CLR	NC			10.00		66	55	60	68	7	18	29.98		21	OVC	021			10.00		67	58	62	73	13	17	29.64	29.75
24	CLR	NC			10.00		63	57	60	81	6	17	29.94		24	OVC	032			10.00		68	60	63	76	9	16	29.62	29.72
SUNRISE: 0630						MAR 16						SUNSET: 1830																	
03	CLR	NC			10.00		61	56	58	84	8	19	29.89	30.00	03	OVC	024			10.00		69	64	66	84	9	17	29.57	29.68
06	FEW	026			10.00		59	55	57	87	6	18	29.87	29.98	06	OVC	048			10.00		69	66	67	90	6	18	29.59	29.70
09	FEW	120			10.00		69	57	62	66	13	19	29.88	29.99	09	BKN	250			10.00		74	67	69	79	9	20	29.62	29.73
12	SCT	043			10.00		78	55	64	45	14	19	29.85	29.96	12	BKN	250			10.00		82	64	70	55	9	20	29.61	29.72
15	SCT	250			10.00		81	55	65	41	14	19	29.75	29.86	15	BKN	250			10.00		83	65	71	55	9	22	29.55	29.66
18	SCT	250			10.00		73	59	64	62	24	16	29.75	29.86	18	BKN	055			10.00		80	67	71	65	7	19	29.57	29.67
21	SCT	250			10.00		67	59	62	76	11	17	29.78	29.88	21	BKN	250			10.00		73	67	69	82	6	17	29.63	29.74
24	SCT	250			10.00		65	60	62	84	9	17	29.76	29.87	24	BKN	055			10.00		69	67	68	93	0	00	29.64	29.75
SUNRISE: 0629						MAR 17						SUNSET: 1830																	
03	SCT	250			10.00		65	61	63	87	8	16	29.71	29.82	03	OVC	010			8.00		71	68	69	90	9	15	29.57	29.67
06	BKN	250			10.00		64	62	63	93	5	16	29.72	29.83	06	OVC	010			10.00		64	59	61	84	10	34	29.62	29.72
09	BKN	250			10.00		71	65	67	81	13	18	29.74	29.85	09	OVC	005			5.00	BR	63	60	61	90	8	02	29.63	29.73
12	BKN	250			10.00		80	60	67	51	13	19	29.71	29.81	12	OVC	007			2.00	BR HZ	69	65	66	87	5	05	29.58	29.69
15	BKN	250			10.00		80	63	69	56	18	15	29.61	29.72	15	OVC	250			6.00		72	66	68	82	0	00	29.51	29.62
18	BKN	250			10.00		75	64	68	69	16	16	29.61	29.71	18	BKN	250			9.00		73	66	68	79	5	32	29.49	29.60
21	SCT	250			10.00		70	65	67	84	8	17	29.66	29.76	21	SCT	250			9.00		67	64	65	90	3	VR	29.54	29.65
24	SCT	250			8.00		68	66	67	93	10	16	29.64	29.75	24	OVC	013			7.00		66	62	64	87	6	35	29.55	29.66
SUNRISE: 0628						MAR 18						SUNSET: 1831																	
03	BKN	250			8.00		69	66	67	90	5	18	29.64	29.75	03	OVC	011			9.00		62	58	60	87	18	33	29.64	29.75
06	OVC	026			9.00		70	65	67	84	3	16	29.69	29.80	06	SCT	021			10.00		56	47	51	72	17	33	29.78	29.89
09	OVC	023			9.00		73	65	68	76	9	18	29.71	29.82	09	CLR	NC			10.00		53	34	44	49	23	32	29.91	30.02
12	SCT	250			9.00		80	64	70	58	5	21	29.69	29.80	12	CLR	NC			10.00		58	28	45	32	23	34	29.94	30.05
15	CLR	NC			10.00		88	58	69	36	0	00	29.63	29.73	15	CLR	NC			10.00		61	27	46	27	21	34	29.89	29.99
18	FEW	250			10.00		86	56	67	36	5	29	29.64	29.75	18	CLR	NC			10.00		57	26	44	30	16	33	29.90	30.01
21	BKN	250			10.00		76	62	67	62	14	36	29.75	29.86	21	CLR	NC			10.00		50	28	41	43	8	34	29.98	30.09
24	BKN	250			10.00		70	57	62	64	9	01	29.81	29.92	24	CLR	NC			10.00		47	29	40	50	8	35	30.05	30.16

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX
MARCH 2013

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0620 MAR 25 SUNSET: 1835														
03	CLR	NC				42	30	37	63	3	34	30.06	30.17	
06	CLR	NC				39	28	35	65	7	34	30.13	30.24	
09	CLR	NC				46	24	37	42	13	34	30.24	30.35	
12	CLR	NC				58	17	42	20	15	36	30.21	30.32	
15	CLR	NC				62	17	44	17	13	34	30.14	30.25	
18	FEW	250				58	17	42	20	14	01	30.14	30.25	
21	FEW	250				51	21	39	31	8	34	30.22	30.34	
24	FEW	250				46	22	37	39	9	34	30.27	30.39	
SUNRISE: 0618 MAR 26 SUNSET: 1836														
03	FEW	250				42	21	34	43	5	02	30.27	30.40	
06	CLR	NC				38	22	32	53	0	00	30.32	30.43	
09	CLR	NC				49	20	38	32	6	08	30.37	30.50	
12	CLR	NC				59	19	43	21	11	32	30.34	30.45	
15	CLR	NC				63	20	45	19	8	30	30.24	30.37	
18	FEW	250				60	19	44	20	8	34	30.22	30.33	
21	FEW	250				49	22	39	35	0	00	30.24	30.36	
24	CLR	NC				41	26	35	55	0	00	30.24	30.36	
SUNRISE: 0617 MAR 27 SUNSET: 1836														
03	CLR	NC				39	30	35	70	0	00	30.22	30.33	
06	CLR	NC				37	29	34	73	3	35	30.24	30.35	
09	CLR	NC				57	36	47	46	7	13	30.27	30.38	
12	CLR	NC				66	37	52	34	15	16	30.24	30.35	
15	FEW	250				68	40	54	36	14	14	30.16	30.27	
18	FEW	250				62	44	53	52	20	13	30.11	30.23	
21	BKN	070				59	44	51	58	8	17	30.16	30.27	
24	SCT	250				56	47	51	72	5	15	30.13	30.23	
SUNRISE: 0616 MAR 28 SUNSET: 1837														
03	OVC	060				55	50	52	83	7	10	30.11	30.22	
06	OVC	065				55	51	53	86	7	09	30.11	30.23	
09	BKN	070				65	54	59	68	10	13	30.16	30.26	
12	OVC	038				71	55	62	57	13	14	30.14	30.25	
15	OVC	075				70	55	61	59	20	14	30.10	30.21	
18	SCT	250				67	56	61	68	14	13	30.08	30.19	
21	SCT	250				61	57	59	87	7	13	30.11	30.22	
24	FEW	250				57	56	56	96	7	12	30.10	30.20	
SUNRISE: 0615 MAR 29 SUNSET: 1838														
03	BKN	250				58	56	57	93	5	10	30.10	30.20	
06	SCT	250			1.50	56	55	55	96	0	00	30.10	30.21	
09	SCT	250				67	60	63	78	13	13	30.11	30.23	
12	OVC	250				72	59	64	64	11	14	30.09	30.20	
15	BKN	250				75	59	65	58	20	15	30.02	30.13	
18	BKN	250				70	59	63	68	15	14	30.03	30.13	
21	OVC	070				67	61	63	81	10	14	30.05	30.16	
24	BKN	250				65	61	63	87	8	15	30.03	30.14	
SUNRISE: 0614 MAR 30 SUNSET: 1838														
03	BKN	250				65	61	63	87	0	00	29.98	30.09	
06	OVC	250				66	61	63	84	6	30	30.03	30.14	
09	BKN	250				70	61	65	73	21	15	29.95	30.06	
12	BKN	039				77	59	66	54	6	VR	29.97	30.07	
15	OVC	060				78	59	66	52	7	14	29.89	29.99	
18	SCT	060				76	62	67	62	9	17	29.86	29.96	
21	SCT	250				70	64	66	81	8	17	29.88	29.99	
24	SCT	012				68	65	66	90	5	18	29.87	29.98	

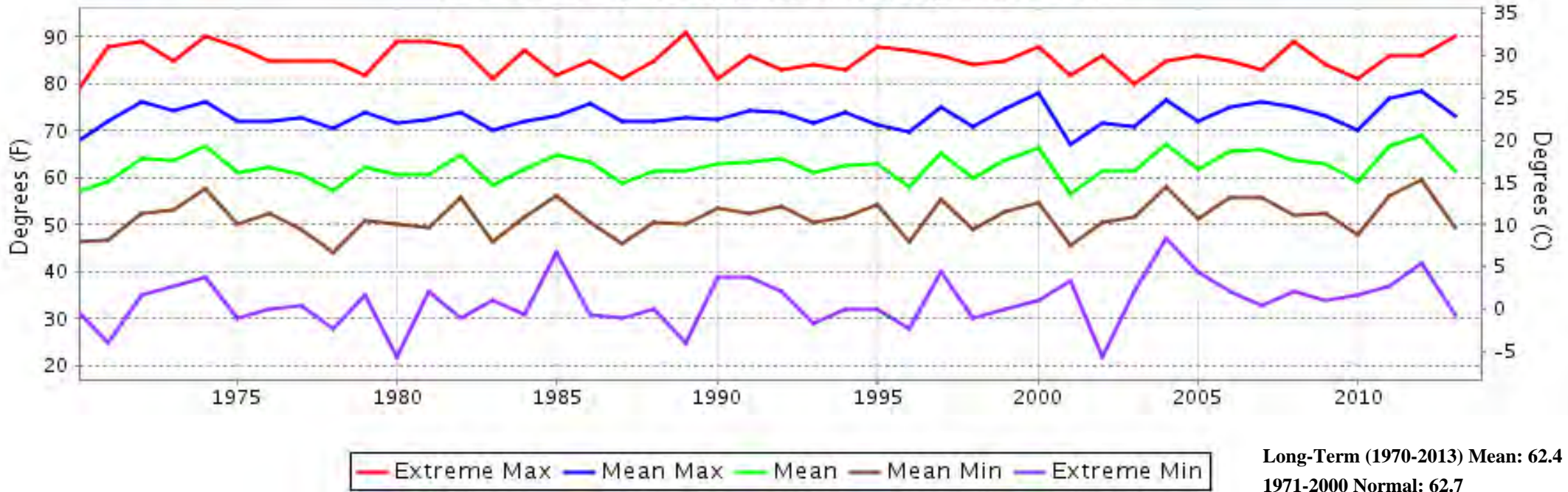
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0612 MAR 31 SUNSET: 1839														
03	BKN	012				68	64	66	87	7	19	29.84	29.94	
06	BKN	013				68	64	66	87	6	20	29.84	29.95	
09	OVC	016				71	64	67	79	11	20	29.85	29.95	
12	SCT	250				79	63	69	58	14	20	29.82	29.93	
15	BKN	250				81	63	69	54	6	23	29.76	29.87	
18	BKN	250				66	62	64	87	7	14	29.79	29.90	
21	BKN	250				64	62	63	93	5	18	29.83	29.94	
24	SCT	250				60	59	59	97	5	01	29.85	29.96	

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, W = 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.

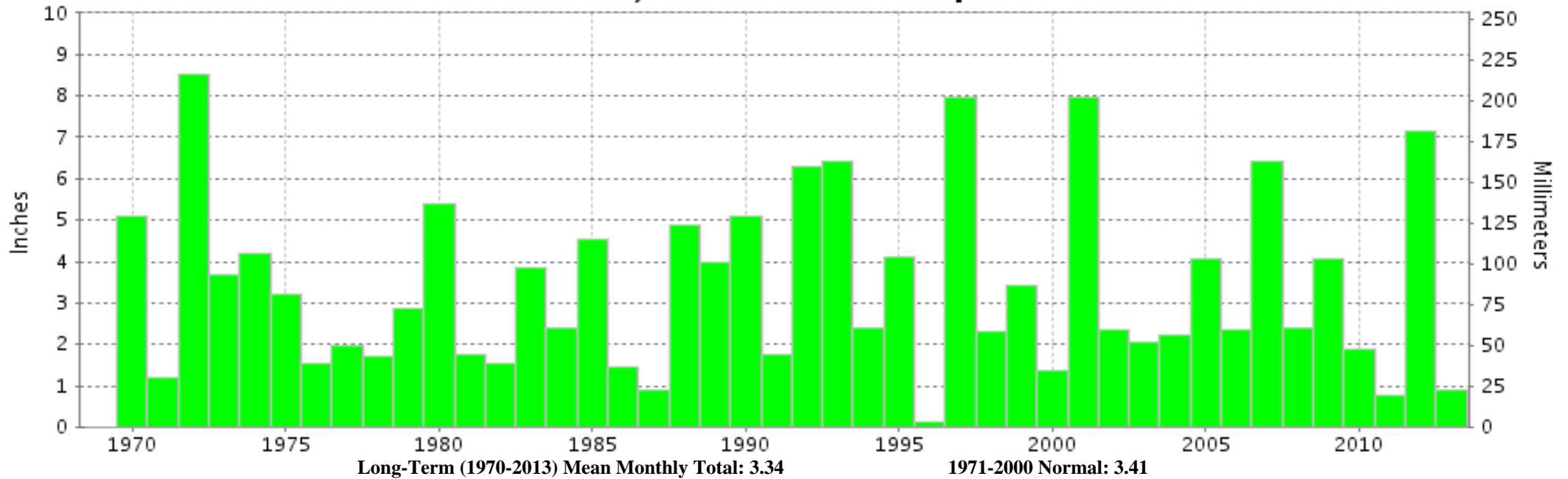
SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			56	46	51	73	29.97	30.08	9.80	6	2	14
02			55	47	51	75	29.96	30.07	9.84	5	3	13
03			54	47	51	77	29.96	30.06	9.84	6	2	15
04			54	47	51	78	29.96	30.06	9.84	6	2	14
05			53	47	50	80	29.96	30.07	9.71	5	3	14
06			53	46	50	80	29.98	30.09	9.60	5	2	15
07			53	47	50	80	30.00	30.11	9.11	6	2	16
08			56	47	52	74	30.02	30.14	9.50	7	2	14
09			60	47	54	63	30.03	30.14	9.73	11	2	13
10			63	45	54	54	30.03	30.14	9.61	12	2	13
11			66	45	55	48	30.02	30.13	9.74	12	2	15
12			69	44	56	44	30.01	30.12	9.71	12	2	16
13			70	44	57	42	29.98	30.09	9.76	12	2	16
14			71	43	57	40	29.95	30.06	9.81	13	1	19
15			72	43	57	39	29.93	30.04	9.87	12	2	13
16			71	43	57	41	29.92	30.03	9.77	12	2	15
17			70	43	57	43	29.91	30.02	9.97	13	3	12
18			67	44	56	47	29.92	30.03	9.87	12	2	12
19			64	45	55	54	29.93	30.04	9.90	10	3	12
20			62	47	55	60	29.95	30.06	9.97	8	2	13
21			61	47	54	64	29.96	30.07	9.90	8	2	14
22			59	47	54	66	29.97	30.08	9.87	8	2	14
23			59	48	53	69	29.97	30.08	9.81	6	2	14
24			57	48	53	73	29.97	30.08	9.81	6	2	14

HOUSTON, TX MARCH Temperatures



HOUSTON, TX MARCH Precipitation





**MARCH 2013
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.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

NCDC now offers free online access to the **Edited Local Climatological Data Publication**. Go to : www.ncdc.noaa.gov and choose Most Popular.

We welcome your questions or comments, please contact us at:
(828) 271-4800, option 2
Fax Number : 828-271-4876
TDD : (828) 271-4010
or Email : ncdc.orders@noaa.gov

NOAA\National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001