



NOVEMBER 2011 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			
01	78	50	64	-1	54	58	1	0		0		0.0	0.00	30.01	30.13	7.9	13	7.8	24	14	21	14	01	
02	84	60	72	7	63	66	0	7	RA BR	0		0.0	T	29.95	30.05	6.3	15	8.8	32	32	25	31	02	
03	66	48	57	-8	31	45	8	0		0		0.0	0.00	30.14	30.24	14.1	34	14.4	39*	31	30	34	03	
04	69	41	55	-9	31	44	10	0		0		0.0	0.00	30.05	30.18	1.1	33	2.5	13	08	9	04	04	
05	73	39	56	-8	50	54	9	0		0		0.0	0.00	29.90	30.04	8.3	12	9.2	26	13	22	14	05	
06	82	64	73	9	63	66	0	8		0		0.0	0.00	29.93	30.04	9.8	12	10.2	26	15	21	15	06	
07	81	69	75	12	67	70	0	10	RA BR	0		0.0	T	29.91	30.02	14.2	13	14.6	31	15	24	13	07	
08	81	67	74	11	67	69	0	9	TS TSRA RA FG+ FG BR	0		0.0	1.24	29.83	29.94	5.8	16	9.7	24	15	18	14	08	
09	67	54	61	-2	45	52	4	0	RA	0		0.0	T	30.11	30.20	12.6	34	12.9	28	01	21	35	09	
10	66	44	55	-8	33	45	10	0		0		0.0	0.00	30.24	30.35	7.7	36	8.2	29	36	22	02	10	
11	68	38	53	-9	36	46	12	0		0		0.0	0.00	30.09	30.23	3.6	18	3.9	20	17	14	17	11	
12	76	50	63	1	55	59	2	0	RA	0		0.0	T	29.91	30.05	8.1	17	8.3	28	15	22	15	12	
13	83	67	75	14	65	68	0	10	RA	0		0.0	T	29.81	29.94	8.0	18	8.3	23	18	15	19	13	
14	82	68	75	14	67	70	0	10	RA BR	0		0.0	T	29.75	29.88	8.5	16	8.6	26	16	20	16	14	
15	80	65	73	12	68	69	0	8	TS TSRA RA BR	0		0.0	1.99	29.64	29.76	6.2	14	7.2	38	17	30*	16	15	
16	81	60	71	10	61	64	0	6	BR	0		0.0	0.00	29.83	29.89	4.9	31	6.6	31	35	22	34	16	
17	67	46	57	-3	38	49	8	0		0		0.0	0.00	30.19	30.28	10.5	03	11.7	30	02	23	03	17	
18	69	41	55	-5	47	52	10	0		0		0.0	0.00	30.01	30.16	9.4	12	10.4	28	15	21	13	18	
19	78	65	72	12	64	67	0	7	RA	0		0.0	T	29.87	30.00	12.1	16	12.3	26	16	22	15	19	
20	84*	73	79*	19	70	72	0	14	RA	0		0.0	T	29.96	30.07	10.2	15	10.6	24	15	20	14	20	
21	82	74	78	19	70	72	0	13	RA	0		0.0	T	29.91	30.03	10.9	15	11.4	30	15	24	16	21	
22	75	57	66	7	61	63	0	1	TS TSRA RA FG+ BR	0		0.0	0.50	29.93	30.02	4.8	33	10.6	26	32	22	31	22	
23	73	51	62	3	51	55	3	0		0		0.0	0.00	30.12	30.22	4.7	36	5.3	18	03	14	01	23	
24	63	47	55	-4	49	51	10	0	BR	0		0.0	0.00	30.13	30.26	3.7	08	4.1	18	12	14	10	24	
25	76	48	62	4	56	59	3	0	BR	0		0.0	0.00	29.91	30.06	5.6	12	7.0	26	14	21	13	25	
26	70	53	62	4	56	58	3	0	RA BR	0		0.0	0.97	29.88	29.99	5.6	32	10.4	36	31	28	34	26	
27	53	39	46	-12	30	41	19	0		0		0.0	0.00	30.10	30.20	12.7	32	12.1	35	31	21	32	27	
28	58	34*	46*	-11	25	38	19	0		0		0.0	0.00	29.99	30.12	6.0	29	5.9	20	30	15	32	28	
29	67	36	52	-5	29	42	13	0		0		0.0	0.00	30.04	30.16	5.2	33	5.5			11	32	29	
30	64	41	53	-4	35	43	12	0		0		0.0	0.00	30.06	30.19	1.4	01	2.7	12	10	8	06	30	

73.2		53.0		63.1		51.2		56.9		5.2		3.4		< MONTHLY AVERAGES TOTALS >		0.0		4.70		29.98		30.09		1.8		12		8.7		< MONTHLY AVERAGES							
1.2		3.2		2.2		<-----DEPARTURE FROM NORMAL----->																				0.51		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS				MONTHLY				SEASON TO DATE				GREATEST 24-HR PRECIPITATION : 1.99 DATE : 15				GREATEST 24-HR SNOWFALL : 0.0 DATE :				GREATEST SNOW DEPTH : 0 DATE :				SEA LEVEL PRESSURE				DATE TIME									
HEATING :		156		-33		189		-38		NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH: 4				PRECIPITATION >= 0.10 INCH: 4				SNOWFALL >= 1.0 INCH : 0							
COOLING :		103		38		3926		1058		MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				HEAVY FOG : 2																			

NOVEMBER 2011
HOUSTON, TX

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX (KIAH)
NOVEMBER 2011

WBAN # 12960

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	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													01												01	0.00	0.00	
02													02												02	T	T	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07				T	T							07	T	T	
08	T	T	T	T									08	0.35	0.79	T		T							08	1.24	1.24	
09													09												09	T	T	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12	T											12	T	T	
13													13												13	T	T	
14													14												14	T	T	
15													15	0.24	0.13	1.62									15	1.99	1.99	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	T	T	
20				T									20												20	T	T	
21													21												21	T	T	
22	T	0.01	T										22												22	0.50	0.50	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26					0.05	T							26	0.32	0.27	0.17									26	0.97	0.97	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	

* 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)	0.53	0.83	1.13	1.42	1.59	1.62	1.63	1.63	1.94	1.98	1.99	1.99
Ending Date	15	15	15	15	15	15	15	15	15	15	15	15
Ending Time (Hr/Min)	1413	1415	1424	1424	1433	1435	1456	1456	1429	1435	1456	1456

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 1971-2000

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 NOVEMBER 2011

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	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							8.00	10.00	
02							0.25	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							6.00	10.00	
08							1.50	10.00	
09							8.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							4.00	10.00	
15							6.00	10.00	
16							6.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							7.00	10.00	
21							7.00	10.00	
22							4.00	10.00	
23							10.00	10.00	
24							5.00	10.00	
25							4.00	10.00	
26							2.50	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
MONTHLY AVGS							7.64	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible : 19173				
Percent Possible : 0									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
1			3				20		

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

NOVEMBER 2011

KIAH

WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)													
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL								
SUNRISE: 0635						NOV 01						SUNSET: 1735						SUNRISE: 0640						NOV 07						SUNSET: 1730					
03	CLR	NC				52	48	50	86	0	00	30.05	30.15	03	FEW	050				10.00			70	66	67	87	9	13	29.94	30.05					
06	CLR	NC				50	47	48	90	0	00	30.03	30.15	06	BKN	070				9.00			70	67	68	90	9	11	29.95	30.06					
09	CLR	NC				65	54	59	68	6	11	30.06	30.18	09	OVC	044				7.00			73	68	70	84	10	12	29.98	30.09					
12	SCT	035				75	56	64	52	14	12	30.03	30.14	12	BKN	090				10.00			79	67	71	67	21	14	29.94	30.05					
15	SCT	048				75	58	65	56	15	12	29.98	30.09	15	BKN	250				10.00			77	67	70	71	20	13	29.88	29.99					
18	SCT	250				70	57	62	64	13	14	29.98	30.10	18	BKN	250				10.00			74	68	70	82	21	14	29.88	29.99					
21	CLR	NC				65	56	60	73	10	12	30.00	30.10	21	OVC	014				10.00			73	69	70	87	15	14	29.90	30.00					
24	FEW	038				62	59	60	90	3	13	29.98	30.09	24	OVC	060				8.00			73	69	70	87	11	14	29.87	29.98					
SUNRISE: 0636						NOV 02						SUNRISE: 1734						SUNRISE: 0641						NOV 08						SUNSET: 1730					
03	FEW	050				61	60	60	97	7	12	29.94	30.05	03	OVC	032				10.00			73	69	70	87	10	13	29.81	29.92					
06	OVC	003			BR	63	62	62	97	5	11	29.95	30.06	06	OVC	047				10.00			73	68	70	84	11	15	29.81	29.92					
09	OVC	005			BR	69	67	68	93	9	12	29.98	30.09	09	BKN	060				10.00			75	69	71	82	11	13	29.85	29.96					
12	SCT	050				81	64	70	56	11	14	29.93	30.04	12	OVC	080				10.00			77	71	73	82	8	16	29.82	29.93					
15	SCT	055				82	63	70	53	17	15	29.88	29.98	15	SCT	023				10.00			78	72	74	82	10	16	29.74	29.85					
18	BKN	050				76	68	71	76	11	16	29.91	30.01	18	BKN	250				10.00			76	69	71	79	6	21	29.78	29.89					
21	CLR	NC				70	67	68	90	5	18	29.96	30.07	21	OVC	050				10.00			72	60	65	66	3	31	29.90	30.01					
24	OVC	070			-RA	64	56	59	75	22	32	30.02	30.13	24	FEW	065				10.00			67	48	57	51	9	32	29.93	30.04					
SUNRISE: 0637						NOV 03						SUNRISE: 1733						SUNRISE: 0641						NOV 09						SUNSET: 1729					
03	BKN	120				58	37	48	46	11	33	30.09	30.19	03	CLR	NC				10.00			60	50	55	70	8	31	29.96	30.07					
06	BKN	100				52	34	44	50	23	33	30.14	30.26	06	CLR	NC				10.00			56	49	52	78	10	36	30.05	30.16					
09	SCT	090				53	34	44	49	18	33	30.22	30.32	09	FEW	024				10.00			57	45	51	64	16	35	30.13	30.24					
12	CLR	NC				62	30	48	30	16	35	30.16	30.27	12	FEW	250				10.00			62	44	53	52	16	32	30.11	30.22					
15	CLR	NC				65	24	47	21	21	34	30.10	30.20	15	SCT	250				10.00			65	42	53	43	13	34	30.06	30.18					
18	CLR	NC				57	24	43	28	7	33	30.11	30.22	18	BKN	250				10.00			61	41	51	48	15	34	30.10	30.21					
21	CLR	NC				51	25	40	36	6	33	30.14	30.25	21	OVC	250				10.00			59	37	49	44	14	36	30.19	30.31					
24	CLR	NC				49	24	39	38	5	30	30.14	30.25	24	BKN	250				10.00			57	36	47	46	10	36	30.22	30.33					
SUNRISE: 0638						NOV 04						SUNRISE: 1732						SUNRISE: 0642						NOV 10						SUNSET: 1728					
03	CLR	NC				43	27	37	53	5	32	30.11	30.23	03	BKN	250				10.00			53	36	45	53	7	35	30.22	30.34					
06	CLR	NC				41	26	35	55	0	00	30.13	30.24	06	FEW	150				10.00			48	35	42	61	9	35	30.27	30.37					
09	CLR	NC				52	30	43	43	6	03	30.14	30.26	09	FEW	100				10.00			54	35	45	49	11	02	30.34	30.45					
12	CLR	NC				62	29	47	29	3	VR	30.10	30.21	12	CLR	NC				10.00			64	25	47	23	10	01	30.29	30.41					
15	CLR	NC				68	28	50	22	5	VR	30.00	30.11	15	CLR	NC				10.00			66	26	48	22	14	36	30.19	30.31					
18	CLR	NC				56	36	47	47	0	00	30.00	30.11	18	CLR	NC				10.00			60	29	46	31	5	31	30.19	30.32					
21	CLR	NC				50	36	44	59	0	00	30.02	30.13	21	CLR	NC				10.00			50	36	44	59	0	00	30.22	30.33					
24	CLR	NC				46	37	42	71	0	00	30.00	30.11	24	CLR	NC				10.00			45	37	41	74	0	00	30.22	30.33					
SUNRISE: 0638						NOV 05						SUNRISE: 1732						SUNRISE: 0643						NOV 11						SUNSET: 1728					
03	CLR	NC				43	37	40	79	3	36	29.98	30.09	03	CLR	NC				10.00			44	34	40	68	0	00	30.19	30.30					
06	FEW	032				42	38	40	86	3	02	29.98	30.09	06	CLR	NC				10.00			39	35	37	86	0	00	30.18	30.29					
09	CLR	NC				56	49	52	78	7	09	29.98	30.10	09	FEW	030				10.00			55	39	47	55	5	20	30.21	30.32					
12	SCT	250				71	53	61	53	14	14	29.94	30.05	12	SCT	250				10.00			65	28	48	25	7	23	30.16	30.27					
15	SCT	250				71	55	62	57	14	14	29.87	29.98	15	SCT	250				10.00			68	29	50	23	8	17	30.08	30.19					
18	BKN	250				67	58	62	73	16	12	29.84	29.95	18	FEW	250				10.00			63	41	52	45	7	17	30.03	30.15					
21	OVC	045				66	61	63	84	9	11	29.87	29.98	21	CLR	NC				10.00			58	44	51	60	5	17	30.05	30.16					
24	BKN	060				66	61	63	84	8	12	29.87	29.98	24	FEW	130				10.00			54	45	49	72	5	17	30.02	30.13					
SUNRISE: 0639						NOV 06						SUNRISE: 1731						SUNRISE: 0644						NOV 12						SUNSET: 1727					
03	BKN	060				67	60	63	78	6	10	29.88	29.98	03	SCT	250				10.00			53	47	50	80	0	00	29.97	30.08					
06	BKN	060				66	61	63	84	7	09	29.90	30.01	06	BKN	250				10.00			53	49	51	86	3	14	29.96	30.06					
09	OVC	060				71	63	66	76	7	11	29.95	30.06	09	SCT	250				10.00			65	55	59	70	7	15	29.98	30.10					
12	OVC	070				77	63	68	62	14	12	29.96	30.06	12	BKN	075				10.00			73	56	63	55	11	19	29.96	30.07					
15	OVC	070				78	64	69	62	18	15																								

OBSERVATIONS AT 3-HOURLY INTERVALS

HOUSTON, TX

NOVEMBER 2011

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			SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				Observation Time (LST)	Eff Cld Amt Oktas			SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL								
																						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)
SUNRISE: 0645						NOV 13						SUNRISE: 0650						NOV 19						SUNRISE: 1724					
03	SCT	035				68	63	65	84	3	18	29.86	29.96							68	60	63	76	11	15	29.88	29.99		
06	BKN	040				69	64	66	84	6	17	29.85	29.96							66	62	64	87	8	13	29.88	29.99		
09	BKN	035				72	66	68	82	7	17	29.88	29.98							71	65	67	81	8	16	29.92	30.03		
12	BKN	250			-RA	81	67	72	63	8	23	29.83	29.94							77	67	70	71	17	16	29.89	29.99		
15	SCT	037				82	68	73	63	11	17	29.75	29.86							77	67	70	71	17	17	29.83	29.94		
18	SCT	045				78	66	70	67	9	18	29.77	29.88							75	68	70	79	10	16	29.84	29.95		
21	BKN	040				74	68	70	82	10	16	29.81	29.91							76	70	72	82	15	16	29.88	29.99		
24	BKN	045				73	68	70	84	8	17	29.82	29.93							75	71	72	87	13	17	29.90	30.01		
SUNRISE: 0646						NOV 14						SUNRISE: 0651						NOV 20						SUNRISE: 1724					
03	BKN	050				71	68	69	90	5	16	29.81	29.92							76	71	73	85	10	17	29.91	30.02		
06	SCT	040				69	67	68	93	3	15	29.81	29.91							74	71	72	90	6	16	29.94	30.05		
09	BKN	250				74	68	70	82	7	16	29.83	29.93							76	71	73	85	10	17	30.00	30.11		
12	BKN	250				81	68	72	65	7	17	29.80	29.91							81	69	73	67	11	18	29.98	30.10		
15	BKN	250				82	67	72	61	14	17	29.70	29.81							82	70	74	67	15	16	29.93	30.04		
18	SCT	250				76	67	70	74	14	16	29.70	29.80							75	71	72	87	11	12	29.96	30.07		
21	CLR	NC				72	66	68	82	9	17	29.74	29.84							74	71	72	90	8	15	30.01	30.11		
24	FEW	055				72	67	69	84	9	16	29.73	29.83							75	71	72	87	7	14	30.00	30.11		
SUNRISE: 0646						NOV 15						SUNRISE: 0651						NOV 21						SUNRISE: 1723					
03	FEW	020				72	68	69	87	5	16	29.69	29.80							75	71	72	87	10	16	29.98	30.09		
06	OVC	055				70	68	69	93	0	00	29.69	29.80							75	70	72	85	8	16	29.98	30.10		
09	SCT	250				76	69	71	79	10	16	29.71	29.82							75	70	72	85	11	14	30.01	30.12		
12	BKN	250				80	67	71	65	14	14	29.66	29.77							80	71	74	74	13	13	29.97	30.08		
15	BKN	090				72	69	70	90	5	19	29.59	29.70							79	70	73	74	17	13	29.88	29.99		
18	BKN	250				70	68	69	93	3	13	29.59	29.70							75	70	72	85	13	15	29.85	29.95		
21	FEW	005			BR	67	66	66	97	0	00	29.63	29.74							75	69	71	82	17	16	29.84	29.94		
24	CLR	NC				66	63	64	90	3	19	29.64	29.74							75	70	72	85	3	18	29.87	29.98		
SUNRISE: 0647						NOV 16						SUNRISE: 0652						NOV 22						SUNRISE: 1723					
03	BKN	006			BR	65	63	64	93	0	00	29.65	29.75							75	71	72	87	13	18	29.79	29.90		
06	SCT	250			BR	62	61	61	97	0	00	29.68	29.79							75	72	73	90	7	18	29.79	29.90		
09	FEW	150				67	61	63	81	8	23	29.75	29.86							69	66	67	90	0	00	29.88	29.99		
12	CLR	NC				77	61	67	58	8	27	29.76	29.87							66	62	64	87	11	32	29.90	30.01		
15	FEW	040				80	64	70	58	6	VR	29.73	29.84							66	66	60	70	11	33	29.88	29.99		
18	BKN	250				71	61	65	71	9	33	29.84	29.95							59	51	55	75	15	35	29.96	30.07		
21	CLR	NC				68	60	63	76	10	33	29.95	30.06							58	51	54	78	14	36	30.05	30.16		
24	SCT	023				62	53	57	73	17	34	30.03	30.15							57	49	53	75	10	36	30.08	30.19		
SUNRISE: 0648						NOV 17						SUNRISE: 0653						NOV 23						SUNRISE: 1723					
03	OVC	017				61	53	57	75	15	36	30.11	30.21							53	49	51	86	6	35	30.08	30.19		
06	SCT	028				54	44	49	69	10	04	30.19	30.31							51	48	49	90	5	35	30.11	30.23		
09	FEW	025				55	36	46	49	18	03	30.27	30.39							57	51	54	80	10	01	30.16	30.28		
12	CLR	NC				62	35	49	37	11	04	30.24	30.36							67	51	58	57	7	01	30.14	30.25		
15	CLR	NC				67	31	50	26	10	04	30.18	30.29							73	51	60	46	8	31	30.08	30.19		
18	CLR	NC				61	30	47	31	7	04	30.18	30.29							66	51	58	59	3	35	30.10	30.21		
21	CLR	NC				50	36	44	59	8	06	30.19	30.31							57	52	54	83	0	00	30.14	30.26		
24	CLR	NC				47	33	41	58	7	07	30.18	30.29							53	50	51	90	3	04	30.14	30.26		
SUNRISE: 0649						NOV 18						SUNRISE: 0654						NOV 24						SUNRISE: 1722					
03	CLR	NC				43	32	38	65	8	10	30.16	30.28							50	48	49	93	0	00	30.14	30.26		
06	CLR	NC				41	34	38	76	5	01	30.14	30.26							47	45	46	93	6	06	30.16	30.27		
09	CLR	NC				52	38	46	59	6	10	30.14	30.26							52	49	50	90	13	10	30.22	30.33		
12	FEW	035				65	49	56	56	11	13	30.08	30.19							54	49	51	83	3	06	30.22	30.33		
15	SCT	033				68	53	59	59	13	16	29.98	30.10							61	52	56	72	5	08	30.13	30.24		
18	SCT	250				63	55	58	75	14	13	29.95	30.06							57	52	54	83	6	10	30.11	30.22		
21	CLR	NC				58	55	56	90	7	11	29.96	30.07							53	50	51	90	0	00	30.14	30.25		
24	OVC	050				65	60	62	84	11	14	29.92	30.03							49	47	48	93	0	00	30.08	30.19		

OBSERVATIONS AT 3-HOURLY INTERVALS

Table with columns: HOUR (LST), SKY COVER, CEILING 100's of FT., SATELLITE (Observation Time (LST), Eff Cld Amt Oktas), VISIBILITY (MILES), WEATHER, TEMPERATURE °F (DRY BULB, DEW POINT, WET BULB), RELATIVE HUMIDITY (PCT), WIND (SPEED (MPH), DIRECTION Tens of Deg), PRESSURE (INCHES, HG) (STATION, SEA LEVEL). Rows for NOV 25, NOV 26, NOV 27, NOV 28, NOV 29, NOV 30.

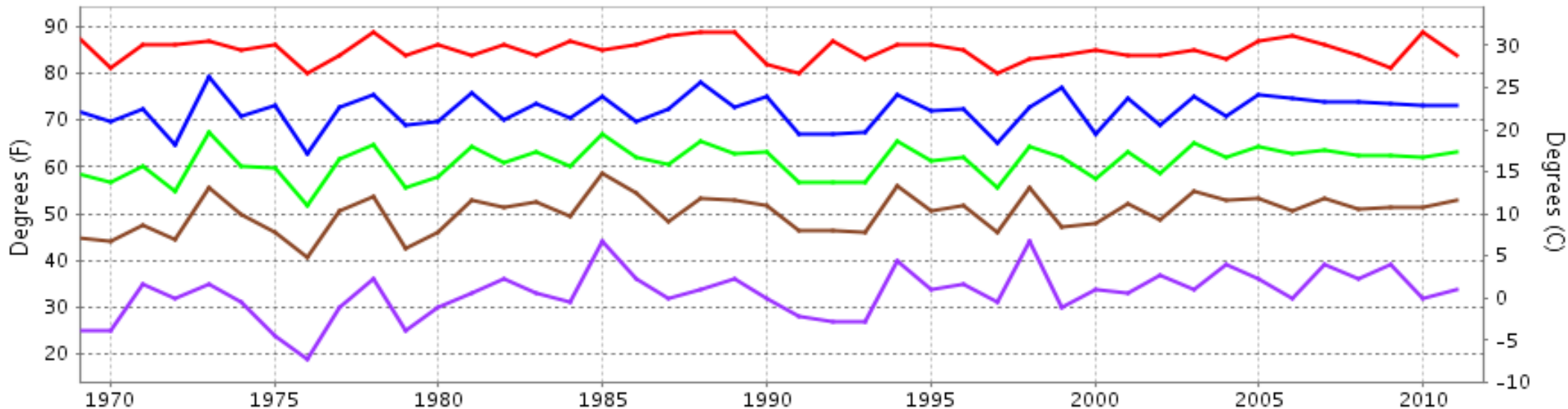
Table with columns: HOUR (LST), SKY COVER, CEILING 100's of FT., SATELLITE (Observation Time (LST), Eff Cld Amt Oktas), VISIBILITY (MILES), WEATHER, TEMPERATURE °F (DRY BULB, DEW POINT, WET BULB), RELATIVE HUMIDITY (PCT), WIND (SPEED (MPH), DIRECTION Tens of Deg), PRESSURE (INCHES, HG) (STATION, SEA LEVEL). Empty rows.

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

Table with columns: HOUR (LST), AVERAGES (CEILOMETER, EFF CLD AMT, DRY BULB, DEW POINT, WET BULB, RELATIVE HUMIDITY, PRESSURE (Inches, HG) (STATION, SEA LEVEL), VISIBILITY (Miles), WIND SPEED (MPH), RESULTANT WIND (MPH) (SPEED, DIRECTION). Rows 01-24.

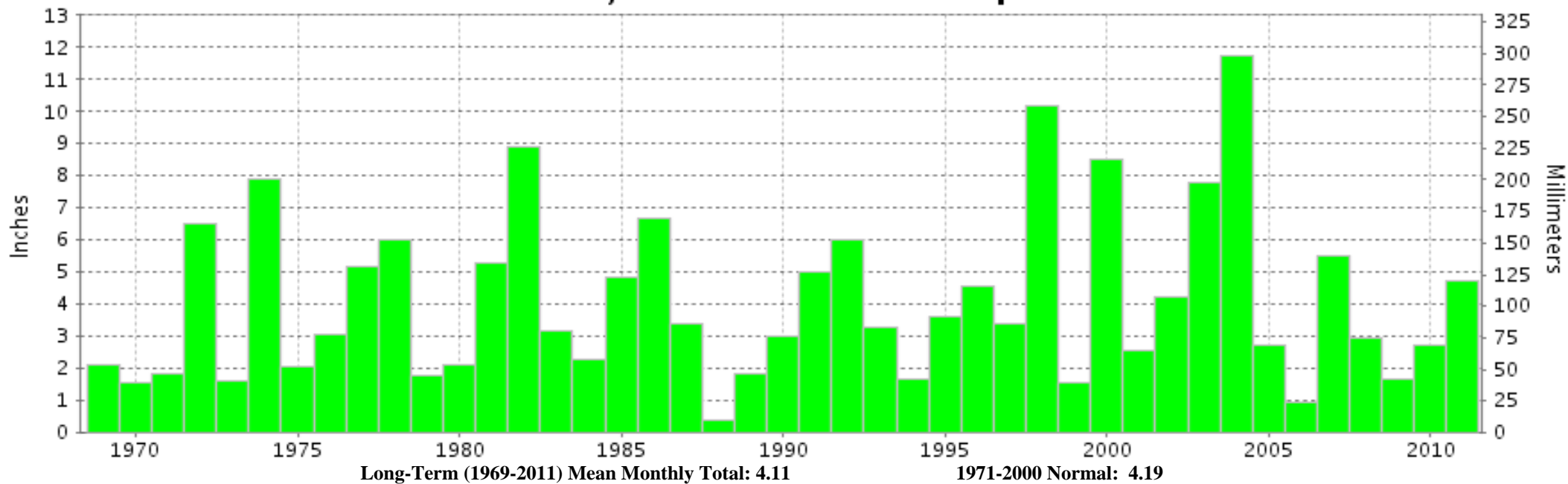
HOUSTON, TX NOVEMBER Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1969-2011) Mean: 61.1
1971-2000 Normal: 60.9

HOUSTON, TX NOVEMBER Precipitation



Long-Term (1969-2011) Mean Monthly Total: 4.11

1971-2000 Normal: 4.19



NOVEMBER 2011
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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