OCTOBER 2002
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 MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	DEG DAYS BASE 65° HEATING	COOLING	WEATHER	SNOW/ICE ON GND(IN) 0600 LST DEPTH	1200 LST WATER EQUIV	PRECIPITATION (INCHES) 2400 LST SNOW−FALL	2400 LST WATER EQUIV	PRESSURE (INCHES OF HG) AVERAGE STATION	AVERAGE SEA LEVEL	WIND SPEED = MPH DIR = TENS OF DEGREES RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM 5−SEC SPEED	5−SEC DIR	MAXIMUM 2−MIN SPEED	2−MIN DIR	DATE
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	90	72	81	6	74	76	0	16	FG+ BR	0		0.0	0.00	29.86	29.97	7.7	12	7.9	24	12	20	13	01
02	89	75	82	7	75	77	0	17	RA BR	0		0.0	T	29.80	29.91	8.0	09	9.0	23	11	17	10	02
03	94	74	84	9	71	75	0	19		0		0.0	0.00	29.62	29.72	6.8	31	8.7	28	30	21	30	03
04	95*	78	87*	13	75	77	0	22		0		0.0	0.00	29.77	29.88	4.9	19	6.5	17	14	15	14	04
05	91	76	84	10	75	77	0	19	MIFG	0		0.0	0.00	29.92	30.03	1.5	13	3.5	17	14	15	14	05
06	92	74	83	10	74	76	0	18	TS TSRA RA MIFG BR	0		0.0	T	29.92	30.03	2.8	18	4.4	20	30	18	29	06
07	85	72	79	6	72	74	0	14	RA BR	0		0.0	T	29.91	30.03	4.8	06	7.5	24	03	18	01	07
08	84	71	78	5	71	73	0	13	TS TSRA RA FG BR HZ	0		0.0	0.46	29.84	29.95	9.7	09	10.2	31	14	25	14	08
09	77	72	75	2	72	73	0	10	TSRA RA BR	0		0.0	0.66	29.79	29.90	6.1	12	7.0	21	11	18	11	09
10	73	62	68	−4	64	65	0	3	BR	0		0.0	0.00	29.88	30.00	6.6	34	7.5	17	33	14	33	10
11	77	61	69	−3	62	64	0	4	BR	0		0.0	0.00	29.94	30.05	1.5	04	5.4	16	33	12	03	11
12	84	60	72	0	65	67	0	7	BR	0		0.0	0.00	29.96	30.07	0.7	11	3.3	14	11	10	08	12
13	73	62	68	−3	63	64	0	3	BR	0		0.0	0.00	30.11	30.22	9.7	36	10.2	23	03	20	36	13
14	64	54	59*	−12	53	56	6	0	RA	0		0.0	0.08	29.99	30.11	7.2	35	8.2	28	05	15	01	14
15	73	50	62	−9	47	53	3	0		0		0.0	0.00	29.88	30.00	7.9	33	8.1	26	02	17	34	15
16	76	49*	63	−7	46	53	2	0		0		0.0	0.00	29.88	29.99	1.2	34	3.7	13	05	9	14	16
17	78	52	65	−5	55	59	0	0		0		0.0	0.00	29.95	30.06	3.6	12	4.8	16	13	13	14	17
18	83	60	72	2	64	67	0	7		0		0.0	0.00	29.87	29.99	9.6	15	10.5	29	15	24	16	18
19	77	65	71	1	66	67	0	6	TS TSRA RA BR	0		0.0	1.04	29.82	29.94	5.3	11	10.1	25	33	21	33	19
20	78	63	71	2	65	66	0	6	TSRA RA FG BR	0		0.0	0.51	29.84	29.96	7.6	01	7.8	20	04	17	01	20
21	68	62	65	−4	63	63	0	0	TS TSRA RA BR	0		0.0	0.60	29.90	30.01	4.8	06	7.5	23	01	20	11	21
22	70	64	67	−1	65	65	0	2	TSRA RA BR	0		0.0	0.90	29.93	30.04	7.9	06	9.6	26	33	23	33	22
23	73	65	69	1	66	67	0	4	TSRA RA DZ BR	0		0.0	T	29.92	30.03	7.5	05	9.1	32*	12	29*	12	23
24	71	67	69	1	67	67	0	4	RA BR	0		0.0	0.96	29.87	29.99	7.6	07	9.1	22	10	17	09	24
25	73	67	70	3	69	69	0	5	RA BR HZ	0		0.0	0.74	29.79	29.91	3.9	01	5.5	14	33	12	32	25
26	69	66	68	1	67	67	0	3	RA DZ BR	0		0.0	0.42	29.83	29.94	8.4	03	8.8	18	03	14	03	26
27	71	67	69	2	68	68	0	4	RA DZ BR	0		0.0	0.24	29.76	29.87	6.9	02	7.7	17	02	13	03	27
28	72	67	70	4	68	69	0	5	TS TSRA RA DZ FG BR	0		0.0	8.04	29.71	29.82	3.0	10	7.5	24	15	22	15	28
29	78	65	72	6	63	66	0	7	TS TSRA RA BR	0		0.0	T	29.69	29.80	4.5	33	5.8	20	28	14	30	29
30	81	59	70	4	58	63	0	5		0		0.0	0.00	29.86	29.97	4.5	03	5.7	21	05	14	02	30
31	68	58	63	−3	57	59	2	0		0		0.0	0.00	30.04	30.16	9.7	03	9.9	21	06	16	02	31
	78.3	64.8	71.6		65.2	67.2	0.4	7.2	< MONTHLY AVERAGES TOTALS−>			0.0	14.65	29.87	29.98	3.2	05	7.4	<− MONTHLY AVERAGES				
	-3.7	6.0	1.2		<−−−−−−−−−−−−−DEPARTURE FROM NORMAL−−−−−−−−−−−−−>								10.15	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING:	13	−24	13	−25
COOLING:	223	27	3133	330

GREATEST 24−HR PRECIPITATION: 8.04 DATE :28
GREATEST 24−HR SNOWFALL: 0.0 DATE :
GREATEST SNOW DEPTH: 0 DATE :

SEA LEVEL PRESSURE		DATE	TIME
MAXIMUM	30.27	13	2053
MINIMUM	29.63	03	1453

NUMBER OF DAYS WITH →

MAXIMUM TEMP ≥ 90:	5	MINIMUM TEMP ≤ 32 :	0
MAXIMUM TEMP ≤ 32 :	0	MINIMUM TEMP ≤ 0 :	0
THUNDERSTORMS :	10	HEAVY FOG :	1
PRECIPITATION ≥ 0.01 INCH :	12		
PRECIPITATION ≥ 0.10 INCH :	11		
SNOWFALL ≥ 1.0 INCH :	0		

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

HOUSTON, TX

OCTOBER 2002 IAH WBAN # 12960

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	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
02													02	T	T											02		T
03													03													03		0.00
04													04													04		0.00
05													05													05		0.00
06													06					T	T						06		T
07													07				T	T							07		T
08													08					0.46	T		T		T	T	08		0.46
09						0.07	0.02	0.01	0.20	0.27	0.08	0.01	09													09		0.66
10													10													10		0.00
11													11													11		0.00
12													12													12		0.00
13													13													13		0.00
14													14		T	0.03	0.02	0.01	0.01	0.01					14		0.08
15													15													15		0.00
16													16													16		0.00
17													17													17		0.00
18													18													18		0.00
19	T	T							T	0.15	0.07	0.04	19	0.22	0.10	T	0.03	T	T	0.01	T	0.03	0.35	T	0.04	19		1.04
20	T		0.46	0.05									20													20		0.51
21								0.47	T	T		T	21	0.02	0.06	0.02				T	0.03	T				21		0.60
22							T	T	0.22	0.09	T	0.07	22	0.41	0.11	T										22		0.90
23	T	T							T	T			23													23		T
24											T	0.01	24	0.06	0.04	0.10	0.67	0.10	0.07	0.01	T		T	T	T	24	1.06	0.96
25	T	0.02	T				T	0.13	0.16	0.10	0.29	0.08	25	0.03	0.02		T	T								25	0.83	0.74
26	T	0.02	T	T	0.01			0.03		0.04	T		26	T	T		T	T	0.04	T	0.02	0.01	0.02	0.04	0.05	26	0.28	0.42
27	0.01	0.15	0.09	T	0.07	0.08	0.03	T	T	T	T		27	T	T	T	T	T								27	0.43	0.24
28				T			T	T	T				28	0.53	T	0.09	0.30	0.20	T		0.04	0.90	2.40	2.37	0.26	28	7.09	8.04
29	T												29													29		T
30													30													30		0.00
31													31													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)	.44	.79	1.14	1.47	2.15	2.90	3.76	4.32	4.60	5.05	5.48	5.84
Ending Date	28	28	28	28	28	28	28	28	28	28	28	28
Ending Time (Hour/Min)	2139	2200	2205	2207	2201	2219	2228	2229	2229	2228	2229	2258

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 occurence 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	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
OCTOBER 2002

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
			SR−SS		MN−MN				
	TOTAL MINUTES	PERCENT POSSIBLE	CEILOMETER	SATELLITE	CEILOMETER	SATELLITE	MINIMUM	MAXIMUM	
01							.25	10.00	
02							.50	10.00	
03							7.00	10.00	
04							10.00	10.00	
05							9.00	10.00	
06							6.00	10.00	
07							.00	10.00	
08							.50	10.00	
09							.50	10.00	
10							.50	10.00	
11							6.00	10.00	
12							6.00	10.00	
13							4.00	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							1.25	10.00	
20							.50	10.00	
21							2.00	10.00	
22							.50	10.00	
23							.25	10.00	
24							.50	10.00	
25							.50	10.00	
26							1.50	10.00	
27							4.00	10.00	
28							.13	10.00	
29							6.00	10.00	
30							10.00	10.00	
31							8.00	10.00	
MONTHLY AVGS							4.34	10.00	

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	15	10

OBSERVATIONS AT 3–HOURLY INTERVALS

HOUSTON, TX

OCTOBER 2002 IAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0615	**OCT 01**			**SUNSET: 1808**					
03	CLR	NC			9.00		72	71	71	97	0	00	29.85	29.96
06	OVC	002			3.00	BR	74	74	74	100	5	10	29.87	29.98
09	BKN	004			3.00	BR	80	77	78	90	8	10	29.90	30.01
12	BKN	045			10.00		88	75	79	66	10	13	29.88	29.99
15	SCT	NC			10.00		89	72	77	57	14	12	29.83	29.94
18	SCT	NC			10.00		83	73	76	72	12	13	29.82	29.94
21	SCT	NC			10.00		79	76	77	90	9	12	29.86	29.98
24	CLR	NC			6.00	BR	76	76	76	100	5	13	29.84	29.95
					SUNRISE: 0615	**OCT 02**			**SUNSET: 1807**					
03	SCT	NC			8.00		76	76	76	100	5	10	29.82	29.93
06	OVC	012			4.00	BR	75	75	75	100	7	04	29.82	29.94
09	BKN	250			10.00		81	76	77	85	9	10	29.85	29.96
12	OVC	036			10.00		86	76	79	72	12	09	29.82	29.93
15	BKN	250			10.00		88	73	77	61	14	09	29.76	29.87
18	BKN	250			10.00		84	74	77	72	16	09	29.75	29.86
21	SCT	NC			10.00		78	74	75	87	6	36	29.75	29.87
24	SCT	NC			10.00		76	74	75	94	6	04	29.72	29.83
					SUNRISE: 0616	**OCT 03**			**SUNSET: 1806**					
03	FEW	NC			10.00		75	73	74	94	7	33	29.65	29.76
06	SCT	NC			10.00		74	73	73	97	8	34	29.66	29.78
09	SCT	NC			10.00		82	72	75	72	12	34	29.66	29.78
12	SCT	NC			10.00		89	69	75	52	16	31	29.59	29.70
15	SCT	NC			10.00		94	67	75	41	14	29	29.52	29.63
18	SCT	NC			10.00		89	69	75	52	7	26	29.54	29.65
21	OVC	070			10.00		84	70	74	63	5	23	29.60	29.71
24	FEW	NC			10.00		79	72	74	79	5	19	29.65	29.76
					SUNRISE: 0617	**OCT 04**			**SUNSET: 1805**					
03	SCT	NC			10.00		78	74	75	87	5	21	29.67	29.78
06	SCT	NC			10.00		78	76	77	93	5	21	29.74	29.85
09	BKN	021			10.00		82	77	78	85	9	24	29.80	29.91
12	SCT	NC			10.00		91	73	78	56	7	VR	29.80	29.91
15	BKN	250			10.00		93	71	78	49	3	18	29.74	29.86
18	SCT	NC			10.00		87	75	78	67	10	13	29.76	29.88
21	SCT	NC			10.00		82	77	78	85	7	17	29.83	29.94
24	FEW	NC			10.00		80	76	77	87	6	19	29.86	29.97
					SUNRISE: 0617	**OCT 05**			**SUNSET: 1803**					
03	BKN	012			10.00		79	76	77	90	0	00	29.88	29.99
06	SCT	NC			10.00		77	76	76	96	0	00	29.91	30.03
09	SCT	NC			10.00		84	76	78	77	5	31	29.95	30.06
12	SCT	NC			10.00		88	72	77	59	3	35	29.94	30.05
15	SCT	NC			10.00		89	72	77	57	9	12	29.89	30.00
18	BKN	110			10.00		81	74	76	79	5	20	29.90	30.02
21	SCT	NC			10.00		79	75	76	88	3	21	29.93	30.05
24	SCT	NC			10.00		77	75	76	94	0	00	29.93	30.04
					SUNRISE: 0618	**OCT 06**			**SUNSET: 1802**					
03	SCT	NC			9.00		76	75	75	97	0	00	29.91	30.02
06	SCT	NC			6.00	BR	76	75	75	97	0	00	29.94	30.06
09	BKN	012			10.00		81	77	78	88	9	18	29.96	30.07
12	SCT	NC			10.00		90	71	77	54	8	19	29.92	30.04
15	BKN	250			10.00		90	73	78	58	12	14	29.87	29.98
18	BKN	100			10.00		79	73	75	82	5	22	29.89	30.00
21	SCT	NC			10.00		78	71	73	79	0	00	29.93	30.04
24	SCT	NC			10.00		75	71	72	88	5	18	29.94	30.05

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0618	**OCT 07**			**SUNSET: 1760**					
03	BKN	250			10.00		74	73	73	97	0	00	29.91	30.02
06	CLR	NC			10.00		74	73	73	97	0	00	29.93	30.05
09	OVC	005			3.00	BR	77	73	74	88	14	01	29.96	30.07
12	BKN	130			10.00		83	70	74	65	13	03	29.92	30.04
15	OVC	075			10.00		80	72	75	76	12	15	29.88	29.99
18	BKN	130			10.00		78	71	73	79	5	05	29.86	29.98
21	BKN	250			10.00		76	71	73	85	10	06	29.89	30.01
24	BKN	020			10.00		75	70	72	84	12	09	29.89	30.00
					SUNRISE: 0619	**OCT 08**			**SUNSET: 1759**					
03	OVC	011			10.00		73	69	70	87	9	07	29.86	29.98
06	OVC	009			10.00		72	69	70	91	12	10	29.86	29.97
09	OVC	005			2.00	BR	72	69	70	91	9	09	29.89	30.01
12	OVC	011			3.00	HZ	77	71	73	82	9	09	29.85	29.97
15	BKN	250			10.00		83	72	75	70	10	11	29.78	29.89
18	BKN	050			8.00		76	74	75	94	12	11	29.78	29.90
21	OVC	026			6.00	BR	74	73	73	97	10	08	29.82	29.93
24	OVC	008			6.00	BR	73	72	72	96	10	10	29.82	29.93
					SUNRISE: 0620	**OCT 09**			**SUNSET: 1757**					
03	OVC	043			10.00		73	71	72	94	12	12	29.78	29.89
06	OVC	007			6.00	RA BR	73	72	72	96	8	12	29.79	29.91
09	OVC	021			0.50	+TSRA BR	74	73	73	97	10	11	29.84	29.95
12	OVC	011			10.00		74	72	73	94	7	16	29.80	29.91
15	OVC	055			10.00		76	72	73	88	7	12	29.76	29.88
18	BKN	060			10.00		76	72	73	88	3	18	29.78	29.89
21	BKN	060			10.00		74	72	73	94	0	00	29.81	29.92
24	BKN	250			10.00		72	71	71	97	5	29	29.81	29.92
					SUNRISE: 0620	**OCT 10**			**SUNSET: 1756**					
03	OVC	006			10.00		68	66	67	93	10	33	29.81	29.92
06	OVC	008			8.00		66	64	65	93	9	34	29.86	29.98
09	OVC	004			0.50	BR	65	63	64	93	9	34	29.90	30.02
12	OVC	012			10.00		68	63	65	84	9	31	29.91	30.02
15	OVC	018			10.00		71	63	66	76	9	34	29.87	29.99
18	SCT	NC			10.00		69	64	66	84	8	03	29.88	30.00
21	CLR	NC			10.00		66	63	64	90	3	VR	29.92	30.03
24	CLR	NC			8.00		62	62	62	100	0	00	29.91	30.02
					SUNRISE: 0621	**OCT 11**			**SUNSET: 1755**					
03	CLR	NC			6.00	BR	61	60	60	97	3	23	29.91	30.03
06	OVC	032			8.00		64	63	63	96	6	26	29.94	30.06
09	OVC	034			10.00		68	65	66	90	5	27	29.98	30.09
12	OVC	036			10.00		73	60	65	64	8	01	29.96	30.07
15	BKN	038			10.00		76	62	67	62	10	03	29.91	30.02
18	SCT	NC			10.00		72	62	66	71	7	06	29.91	30.02
21	CLR	NC			10.00		67	62	64	84	8	11	29.94	30.05
24	CLR	NC			10.00		63	61	62	93	0	00	29.93	30.05
					SUNRISE: 0621	**OCT 12**			**SUNSET: 1754**					
03	CLR	NC			10.00		60	59	59	96	0	00	29.92	30.03
06	FEW	NC			10.00		61	60	60	97	3	VR	29.94	30.06
09	FEW	NC			9.00		70	64	66	82	6	11	29.98	30.10
12	OVC	033			10.00		79	67	71	67	6	24	29.97	30.09
15	SCT	NC			10.00		83	67	72	59	6	VR	29.92	30.04
18	FEW	NC			10.00		79	68	72	69	7	VR	29.93	30.05
21	CLR	NC			9.00		72	69	70	91	3	16	29.99	30.11
24	CLR	NC			6.00	BR	68	67	67	96	0	00	30.02	30.13

OBSERVATIONS AT 3–HOURLY INTERVALS

HOUSTON, TX

OCTOBER 2002 IAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉ DRY BULB	TEMPERATURE ℉ DEW POINT	TEMPERATURE ℉ WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE: 0622	**OCT 13**			**SUNSET: 1753**					
03	CLR	NC			5.00	BR	66	65	65	96	3	34	30.04	30.15
06	FEW	NC			6.00	BR	66	65	65	96	7	33	30.08	30.19
09	OVC	010			7.00		69	65	66	87	14	36	30.13	30.24
12	OVC	015			9.00		71	64	67	79	13	01	30.14	30.25
15	OVC	019			10.00		70	62	65	76	13	34	30.09	30.21
18	OVC	010			10.00		65	61	63	87	15	36	30.13	30.24
21	OVC	014			10.00		64	61	62	90	8	34	30.16	30.27
24	OVC	014			10.00		63	57	60	81	10	02	30.12	30.24
					SUNRISE: 0623	**OCT 14**			**SUNSET: 1752**					
03	OVC	048			10.00		60	55	57	84	8	02	30.06	30.18
06	BKN	055			10.00		57	53	55	87	9	01	30.05	30.16
09	OVC	032			10.00		59	50	54	72	12	03	30.06	30.17
12	OVC	034			10.00		63	51	56	65	8	34	30.01	30.13
15	OVC	065			10.00	-RA	59	55	57	87	9	35	29.92	30.04
18	OVC	090			10.00	-RA	56	54	55	93	6	32	29.92	30.04
21	BKN	043			10.00		55	54	54	96	8	33	29.94	30.05
24	BKN	110			10.00		54	52	53	93	5	33	29.91	30.03
					SUNRISE: 0623	**OCT 15**			**SUNSET: 1751**					
03	BKN	110			10.00		53	50	51	89	6	32	29.89	30.01
06	CLR	NC			10.00		50	49	49	96	6	31	29.90	30.01
09	FEW	NC			10.00		58	44	51	60	8	34	29.94	30.06
12	SCT	NC			10.00		67	43	54	42	12	34	29.89	30.01
15	FEW	NC			10.00		72	46	58	40	15	32	29.82	29.93
18	SCT	NC			10.00		65	47	55	52	5	32	29.84	29.95
21	SCT	NC			10.00		57	47	52	69	5	31	29.88	30.00
24	CLR	NC			10.00		52	48	50	86	5	31	29.88	30.00
					SUNRISE: 0624	**OCT 16**			**SUNSET: 1750**					
03	CLR	NC			10.00		51	46	49	83	5	32	29.87	29.99
06	FEW	NC			10.00		50	43	47	77	6	35	29.90	30.01
09	CLR	NC			10.00		60	44	52	56	8	05	29.93	30.05
12	SCT	NC			10.00		71	46	57	41	3	VR	29.90	30.01
15	SCT	NC			10.00		76	42	58	30	3	36	29.82	29.94
18	SCT	NC			10.00		67	51	58	57	0	00	29.81	29.93
21	CLR	NC			10.00		62	51	56	67	5	17	29.85	29.96
24	CLR	NC			10.00		56	53	54	90	0	00	29.88	29.99
					SUNRISE: 0625	**OCT 17**			**SUNSET: 1749**					
03	CLR	NC			10.00		53	51	52	93	0	00	29.91	30.02
06	SCT	NC			10.00		53	50	51	89	5	01	29.93	30.04
09	FEW	NC			10.00		66	54	59	65	6	09	29.99	30.10
12	BKN	250			10.00		75	56	64	52	5	VR	29.99	30.11
15	BKN	250			10.00		77	54	63	45	7	14	29.93	30.04
18	SCT	NC			10.00		72	58	64	61	9	13	29.93	30.05
21	SCT	NC			10.00		65	59	61	81	3	16	29.96	30.08
24	CLR	NC			10.00		61	58	59	90	0	00	29.94	30.05
					SUNRISE: 0625	**OCT 18**			**SUNSET: 1748**					
03	BKN	032			10.00		60	59	59	96	5	04	29.92	30.03
06	BKN	250			10.00		62	60	61	93	7	10	29.90	30.02
09	OVC	250			10.00		72	65	68	79	10	12	29.93	30.04
12	OVC	041			10.00		81	64	70	57	20	16	29.89	30.01
15	OVC	065			10.00		81	64	70	57	18	15	29.82	29.93
18	OVC	085			10.00		78	67	71	69	13	16	29.81	29.93
21	BKN	075			10.00		76	69	71	79	10	15	29.83	29.94
24	OVC	060			10.00		76	68	71	77	12	15	29.82	29.94

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉ DRY BULB	TEMPERATURE ℉ DEW POINT	TEMPERATURE ℉ WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE: 0626	**OCT 19**			**SUNSET: 1747**					
03	BKN	250			10.00		76	68	71	77	14	17	29.77	29.88
06	OVC	250			10.00		75	68	70	79	8	18	29.78	29.89
09	OVC	020			10.00	-RA	69	64	66	84	18	34	29.87	29.99
12	OVC	007			10.00		66	65	65	96	13	07	29.85	29.96
15	OVC	006			10.00		67	66	66	97	10	09	29.81	29.93
18	OVC	040			10.00	-RA	67	66	66	97	12	10	29.80	29.92
21	OVC	038			9.00	TSRA	66	66	66	100	9	31	29.85	29.96
24	OVC	035			10.00	-RA	66	65	65	96	6	02	29.83	29.94
					SUNRISE: 0627	**OCT 20**			**SUNSET: 1746**					
03	OVC	012			1.50	+TSRA BR	66	66	66	100	10	01	29.78	29.90
06	OVC	006			10.00		66	65	65	96	9	01	29.83	29.95
09	OVC	006			10.00		68	66	67	93	10	04	29.86	29.98
12	BKN	018			10.00		73	65	68	76	14	01	29.87	29.98
15	SCT	NC			10.00		77	64	69	64	8	03	29.83	29.94
18	SCT	NC			10.00		71	65	67	81	6	35	29.83	29.94
21	SCT	NC			10.00		66	63	64	90	6	01	29.87	29.98
24	SCT	NC			10.00		63	62	62	97	0	00	29.88	30.00
					SUNRISE: 0627	**OCT 21**			**SUNSET: 1745**					
03	BKN	120			10.00		62	61	61	96	0	00	29.87	29.98
06	OVC	005			10.00		63	62	62	97	8	01	29.88	29.99
09	OVC	005			7.00	-RA	65	64	64	97	5	VR	29.93	30.04
12	OVC	035			10.00		67	65	66	93	14	03	29.91	30.03
15	BKN	120			10.00		64	63	63	96	3	20	29.86	29.97
18	OVC	070			10.00		66	63	64	90	8	05	29.89	30.01
21	BKN	075			10.00		64	63	63	96	12	11	29.91	30.02
24	OVC	060			10.00		64	64	64	100	3	11	29.90	30.01
					SUNRISE: 0628	**OCT 22**			**SUNSET: 1744**					
03	OVC	004			10.00		65	65	65	100	9	04	29.88	29.99
06	OVC	024			10.00		66	63	64	90	14	06	29.90	30.02
09	OVC	026			1.00	+RA BR	65	63	64	93	18	03	29.93	30.04
12	OVC	009			3.00	+TSRA BR	65	64	64	97	7	31	29.99	30.11
15	OVC	007			10.00		68	66	67	93	7	VR	29.93	30.04
18	BKN	100			10.00		68	66	67	93	8	06	29.92	30.03
21	OVC	005			10.00		65	65	65	100	8	04	29.94	30.06
24	OVC	005			10.00		65	64	64	97	9	06	29.95	30.07
					SUNRISE: 0629	**OCT 23**			**SUNSET: 1743**					
03	OVC	003			5.00	BR	65	65	65	100	8	03	29.94	30.06
06	OVC	003			1.00	BR	65	65	65	100	8	07	29.92	30.03
09	OVC	005			0.25	-TSRA BR	66	66	66	100	28	12	29.84	29.96
12	OVC	027			7.00		72	68	69	87	14	04	29.90	30.02
15	OVC	013			10.00		72	68	69	87	10	04	29.89	30.00
18	BKN	012			10.00		70	67	68	90	7	03	29.90	30.01
21	BKN	250			8.00		68	67	67	96	5	02	29.93	30.05
24	BKN	022			8.00		67	66	66	97	5	04	29.94	30.05
					SUNRISE: 0629	**OCT 24**			**SUNSET: 1742**					
03	OVC	004			5.00	BR	68	67	67	96	9	07	29.91	30.02
06	OVC	008			0.50	BR	68	67	67	96	7	06	29.90	30.01
09	OVC	006			1.50	BR	70	68	69	93	12	09	29.90	30.01
12	OVC	017			0.50	-RA BR	69	68	68	96	10	02	29.90	30.01
15	OVC	006			0.50	+RA BR	68	68	68	100	10	01	29.86	29.98
18	BKN	044			10.00	-RA	68	66	67	93	13	08	29.81	29.92
21	OVC	080			10.00		67	66	66	97	7	05	29.83	29.94
24	OVC	005			10.00		67	67	67	100	8	11	29.80	29.91

OBSERVATIONS AT 3−HOURLY INTERVALS

HOUSTON, TX

OCTOBER 2002 IAH WBAN # 12960

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0630	**OCT 25**			**SUNSET: 1741**					
03	OVC	003			5.00	BR	69	69	69	100	3	07	29.78	29.89
06	OVC	001			0.50	BR	69	69	69	100	5	VR	29.77	29.89
09	OVC	055			3.00	-RA BR	72	71	71	97	0	00	29.81	29.92
12	OVC	003			1.50	-RA BR	70	69	69	97	12	32	29.80	29.92
15	OVC	005			1.50		71	69	70	94	8	01	29.77	29.89
18	OVC	006			10.00		70	69	69	97	9	02	29.78	29.90
21	OVC	006			10.00		69	68	68	96	5	01	29.81	29.93
24	OVC	003			4.00	BR	68	67	67	96	7	34	29.80	29.91
					SUNRISE: 0631	**OCT 26**			**SUNSET: 1740**					
03	OVC	003			5.00	-RA BR	68	68	68	100	9	02	29.79	29.90
06	OVC	007			10.00	-RA	68	67	67	96	10	04	29.82	29.93
09	OVC	010			6.00	-RA BR	68	67	67	96	10	05	29.85	29.96
12	OVC	005			5.00	DZ BR	67	65	66	93	13	02	29.86	29.97
15	OVC	005			8.00		68	66	67	93	10	05	29.80	29.92
18	OVC	004			1.50	-RA BR	67	67	67	100	9	01	29.80	29.92
21	OVC	004			2.50		68	68	68	100	8	03	29.83	29.94
24	OVC	006			2.50	-RA	69	68	68	96	10	05	29.80	29.92
					SUNRISE: 0632	**OCT 27**			**SUNSET: 1739**					
03	OVC	006			9.00	-RA	68	68	68	100	8	03	29.78	29.90
06	OVC	006			4.00	-RA	67	67	67	100	10	03	29.76	29.87
09	OVC	005			10.00		68	67	67	96	9	04	29.77	29.89
12	OVC	005			7.00		70	69	69	97	9	01	29.74	29.85
15	OVC	006			5.00	DZ BR	71	69	70	94	8	35	29.71	29.83
18	OVC	007			10.00		70	67	68	90	6	36	29.72	29.83
21	OVC	005			4.00	BR	68	67	67	96	3	33	29.76	29.88
24	OVC	004			8.00		68	67	67	96	5	34	29.76	29.87
					SUNRISE: 0632	**OCT 28**			**SUNSET: 1738**					
03	OVC	003			4.00	BR	67	67	67	100	5	35	29.76	29.88
06	OVC	003			0.50	BR	67	67	67	100	5	01	29.77	29.88
09	OVC	005			2.50		68	67	67	96	8	06	29.76	29.88
12	OVC	007			2.50		70	68	69	93	7	07	29.72	29.84
15	OVC	005			2.00	-RA BR	70	70	70	100	7	VR	29.66	29.77
18	OVC	019			10.00	-TSRA	71	70	70	96	14	14	29.63	29.75
21	OVC	007			1.00	+TSRA BR	70	69	69	97	15	06	29.62	29.74
24	OVC	013			7.00	-TSRA	72	71	71	97	10	25	29.65	29.77
					SUNRISE: 0633	**OCT 29**			**SUNSET: 1737**					
03	BKN	250			10.00		70	69	69	97	5	26	29.66	29.77
06	BKN	014			10.00		67	66	66	97	3	33	29.67	29.78
09	BKN	250			10.00		67	63	64	87	10	35	29.73	29.84
12	SCT	NC			10.00		73	62	66	69	8	34	29.69	29.81
15	SCT	NC			10.00		77	60	66	56	6	32	29.65	29.77
18	SCT	NC			10.00		71	63	66	76	6	31	29.68	29.79
21	FEW	NC			10.00		68	61	64	78	3	VR	29.73	29.85
24	OVC	090			10.00		66	62	64	87	5	35	29.75	29.87
					SUNRISE: 0634	**OCT 30**			**SUNSET: 1736**					
03	CLR	NC			10.00		61	60	60	97	5	04	29.77	29.89
06	FEW	NC			10.00		60	59	59	96	0	00	29.80	29.91
09	FEW	NC			10.00		67	60	63	79	5	06	29.87	29.98
12	FEW	NC			10.00		76	61	67	60	5	05	29.86	29.98
15	CLR	NC			10.00		81	55	65	41	6	31	29.83	29.95
18	SCT	NC			10.00		75	58	65	55	8	04	29.87	29.98
21	CLR	NC			10.00		68	57	62	68	12	04	29.93	30.05
24	CLR	NC			10.00		62	59	60	90	9	36	29.98	30.10

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0635	**OCT 31**			**SUNSET: 1735**					
03	CLR	NC			10.00		59	58	58	96	8	36	29.99	30.11
06	BKN	009			8.00		58	56	57	93	12	02	30.03	30.14
09	SCT	NC			10.00		63	57	60	81	10	03	30.07	30.18
12	OVC	017			10.00		63	56	59	78	13	02	30.07	30.18
15	BKN	120			10.00		67	57	61	71	10	04	30.00	30.12
18	OVC	018			10.00		64	57	60	78	9	04	30.03	30.14
21	OVC	023			10.00		63	56	59	78	10	05	30.08	30.19
24	BKN	130			10.00		59	57	58	93	8	03	30.07	30.18

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 Visibilty = 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: CEILOMETER	AVERAGES: EFF CLD AMT	AVERAGES: DRY BULB	AVERAGES: DEW POINT	AVERAGES: WET BULB	AVERAGES: RELATIVE HUMIDITY	AVERAGES: PRESSURE (INCHES,HG): STATION	AVERAGES: PRESSURE (INCHES,HG): SEA LEVEL	AVERAGES: VISIBILITY (MILES)	AVERAGES: WIND SPEED (MPH)	RESULTANT WIND (MPH): SPEED	RESULTANT WIND (MPH): DIRECTION
01			68	66	66	93	29.86	29.97	8.35	5	2	4
02			67	65	66	93	29.86	29.97	8.58	5	2	3
03			67	65	66	94	29.85	29.96	8.44	5	3	3
04			67	65	66	95	29.85	29.96	8.06	5	3	4
05			66	65	65	95	29.86	29.97	8.03	6	3	2
06			66	65	65	95	29.87	29.98	7.60	6	4	3
07			66	65	65	95	29.87	29.99	6.19	6	4	4
08			68	65	67	91	29.89	30.00	6.63	7	4	4
09			70	65	67	85	29.90	30.01	6.98	10	5	5
10			72	65	67	80	29.90	30.01	7.81	9	5	4
11			73	65	68	76	29.90	30.01	8.02	9	4	3
12			75	65	68	74	29.88	30.00	8.34	9	5	2
13			76	64	68	71	29.86	29.97	8.19	9	4	4
14			76	64	69	70	29.84	29.95	8.76	9	4	7
15			76	65	69	70	29.83	29.94	8.94	9	3	5
16			76	64	69	71	29.83	29.94	8.98	9	4	5
17			75	65	68	74	29.83	29.94	9.10	9	4	8
18			73	66	68	79	29.84	29.95	9.66	8	4	7
19			72	66	68	82	29.85	29.97	9.44	7	3	7
20			71	65	67	84	29.86	29.97	9.50	7	4	8
21			70	65	67	87	29.87	29.98	9.02	6	3	6
22			69	65	67	89	29.88	29.99	8.94	6	3	6
23			68	65	66	90	29.88	29.99	8.95	5	3	7
24			68	65	66	92	29.87	29.98	8.89	5	2	5

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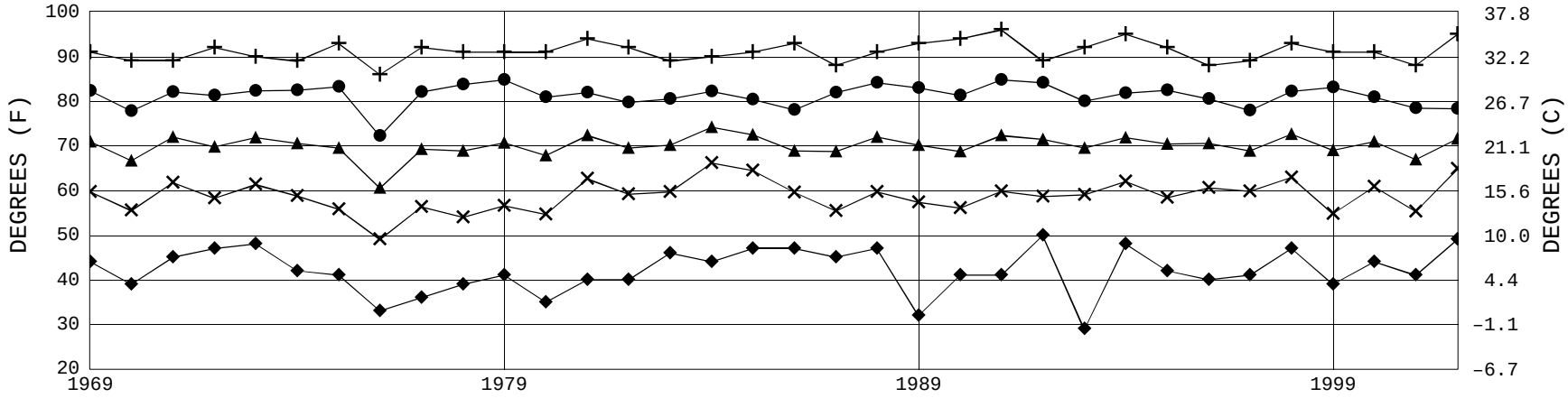
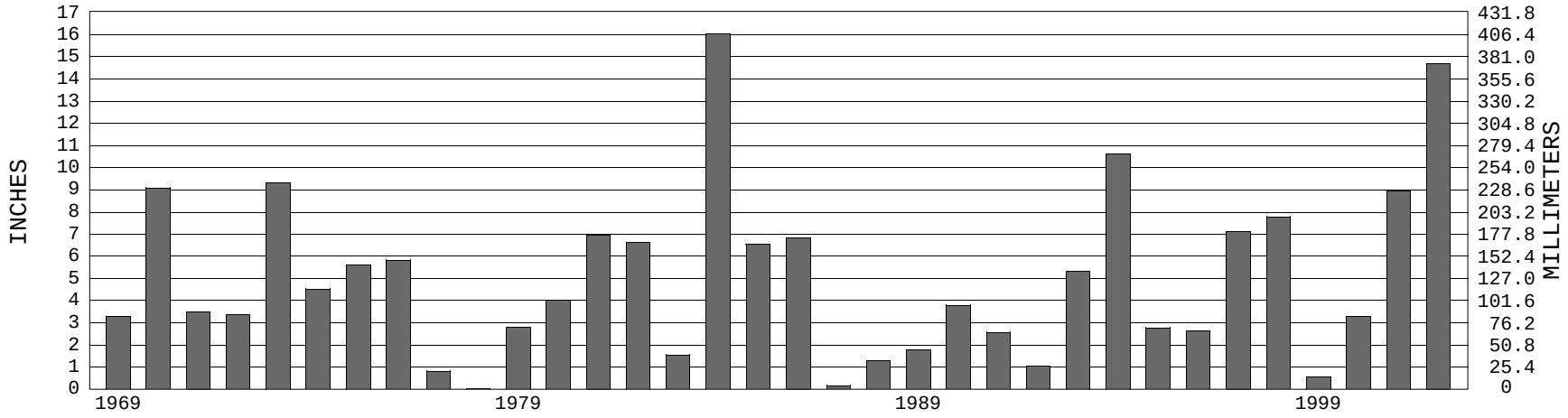
HOUSTON, TX OCTOBER TEMPERATURES



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

Long–Term (1969–2002) Mean: 70.0 1961–1990 Normal: 70.4

HOUSTON, TX OCTOBER PRECIPITATION



Long–Term (1969–2002) Mean Monthly Total: 5.03 1961–1990 Normal: 4.50

OCTOBER 2002

HOUSTON, TX

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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Thomas R Karl

DIRECTOR

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