

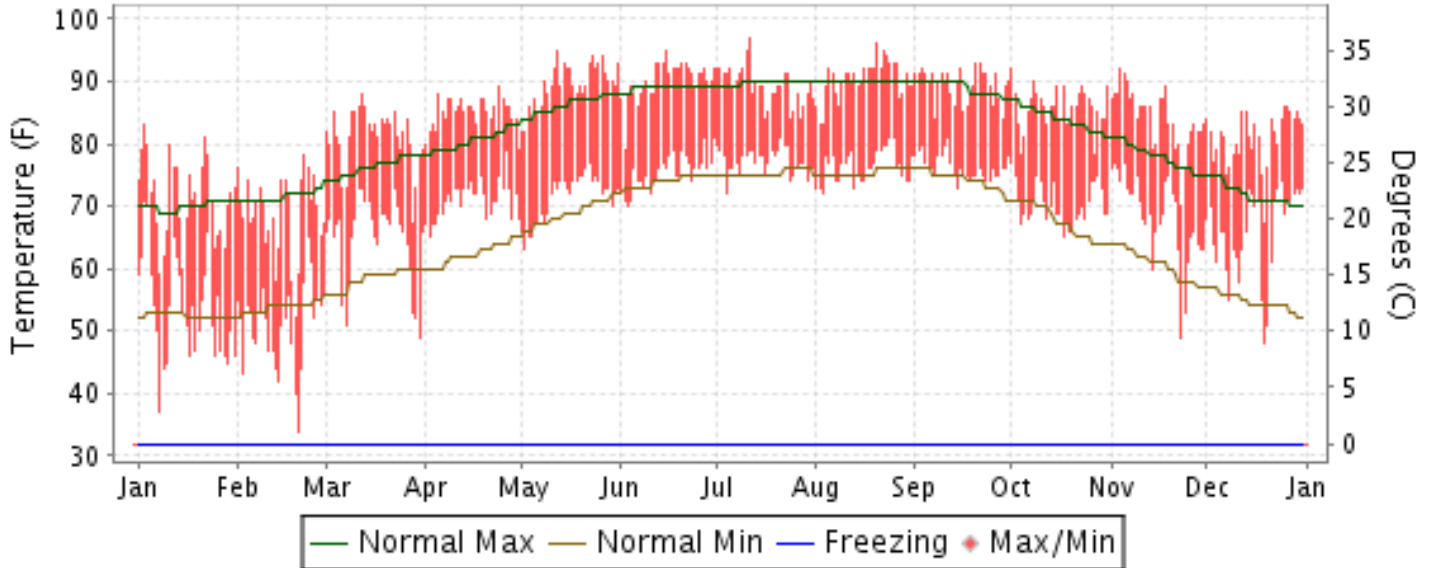


2015 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

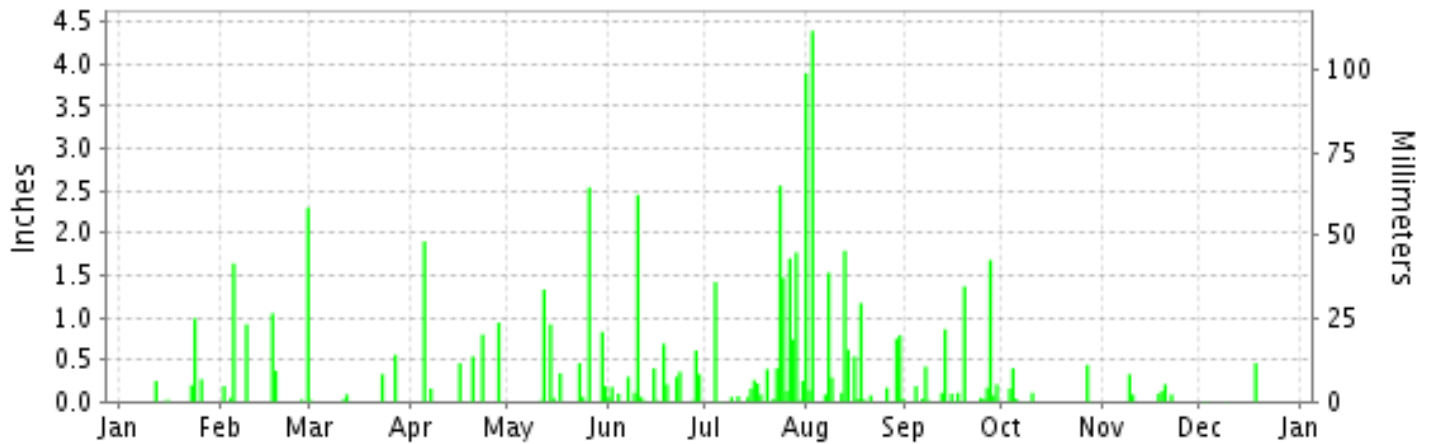
ISSN 0198-1307

TAMPA, FLORIDA (KTPA)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
OCEANIC AND
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL CENTERS for
ENVIRONMENTAL INFORMATION (NCEI)
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NCEI

METEOROLOGICAL DATA FOR 2015

TAMPA (KTPA)

LATITUDE:
27° 57'N

LONGITUDE:
82° 32'W

ELEVATION (FT):
GRND: 19 BARO: 40

TIME ZONE:
EASTERN (UTC -5)

WBAN: 12842

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	71.3	68.7	81.2	84.9	89.5	90.2	89.2	90.3	89.3	85.7	84.1	80.9	83.8	
	HIGHEST DAILY MAXIMUM	83	78	88	89	95	95	97	96	93	92	92	86	97	
	DATE OF OCCURRENCE	03	22	12	24	12	15	11	20	21+	01	04	26+	JUL 11	
	MEAN DAILY MINIMUM	53.5	50.8	64.8	71.1	71.5	75.5	77.2	76.4	76.3	70.4	68.3	65.9	68.5	
	LOWEST DAILY MINIMUM	37	34	49	65	63	70	72	72	73	65	49	48	34	
	DATE OF OCCURRENCE	08	20	30	02	02	03	04	03	14	17	23	19	FEB 20	
	AVERAGE DRY BULB	62.4	59.7	73.0	78.0	80.5	82.8	83.2	83.3	82.8	78.0	76.2	73.4	76.1	
	MEAN WET BULB	56.4	54.0	65.7	70.3	70.2	74.8	76.0	76.5	75.6	69.9	68.9	67.5	68.8	
	MEAN DEW POINT	51.7	48.3	61.5	66.5	65.1	71.4	73.4	74.2	73.0	66.0	65.1	64.4	65.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	15	19	14	20	18	2	3	0	0	91
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	127	151	12	0	0	0	0	0	0	0	5	8	303	
	COOLING DEGREE DAYS	56	11	265	399	489	543	573	577	540	412	350	275	4490	
RH	MEAN (PERCENT)	72	68	71	71	64	70	75	77	76	70	73	78	72	
	HOUR 01 LST	82	77	81	80	76	79	81	85	86	81	84	87	82	
	HOUR 07 LST	80	78	81	79	69	74	75	81	82	79	82	87	79	
	HOUR 13 LST	57	55	56	56	46	58	67	67	63	56	56	63	58	
	HOUR 19 LST	72	68	70	71	64	71	75	78	77	71	73	77	72	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	3	1	0	0	0	1	1	0	0	0	1	9	
	THUNDERSTORMS	0	3	0	3	11	16	20	22	10	1	0	0	86	
PR	MEAN STATION PRESS. (IN.)	30.15	30.10	30.11	30.00	30.08	30.04	30.02	29.98	29.93	29.95	30.07	30.08	30.04	
	MEAN SEA-LEVEL PRESS. (IN.)	30.17	30.11	30.12	30.01	30.10	30.05	30.03	29.99	29.95	29.96	30.08	30.09	30.06	
WINDS	RESULTANT SPEED (MPH)	2.5	1.9	1.2	2.5	1.1	1.5	3.9	2.3	0.5	2.2	3.1	2.8	0.2	
	RES. DIR. (TENS OF DEGS.)	01	33	26	24	02	22	23	22	03	04	06	09	32	
	MEAN SPEED (MPH)	6.8	7.7	7.1	6.8	6.3	5.8	6.2	5.7	5.3	6.3	6.7	7.3	6.5	
	PREVAIL.DIR.(TENS OF DEGS.)	03	03	26	25	07	11	23	25	04	04	03	03	04	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	26	32	23	26	29	26	31	28	26	18	18	22	32	
	DIR. (TENS OF DEGS.)	28	20	30	29	23	31	33	24	14	31	07	35	20	
	DATE OF OCCURRENCE	24	26	26	19	12	29	29	01	15	03	26	18	FEB 26	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	36	41	30	41	38	36	40	37	36	28	31	28	41	
DIR. (TENS OF DEGS.)	29	20	27	29	01	30	33	27	14	07	07	36	29		
DATE OF OCCURRENCE	24	26	31	19	26	29	29	01	15	19	26	18	APR 19		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.75	6.55	1.03	4.82	6.74	6.23	11.84	16.47	5.46	1.17	0.95	0.49	63.50	
	GREATEST 24-HOUR (IN.)	1.19	2.30	0.56	1.90	2.54	2.56	3.22	4.39	1.85	0.44	0.42	0.46	4.39	
	DATE OF OCCURRENCE	23-24	28	27	05	26	09-10	24-25	03	26-27	27	09-10	18	AUG 03	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	6	8	5	8	10	18	22	19	16	7	6	4	129	
PRECIPITATION 0.10	4	6	2	6	7	12	13	13	10	4	4	1	82		
PRECIPITATION 1.00	0	3	0	1	2	1	5	5	2	0	0	0	19		
SNOWFALL	SNOW,ICE PELLETS,HAIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	TOTAL (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0	
	MAXIMUM SNOW DEPTH (IN.)														
DATE OF OCCURRENCE															
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

NORMALS, MEANS, AND EXTREMES TAMPA (KTPA)

LATITUDE:
27° 57'N

LONGITUDE:
82° 32'W

ELEVATION (FT):
GRND: 19 BARO: 40

TIME ZONE:
EASTERN (UTC -5)

WBAN: 12842

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	69.9	72.5	76.3	81.0	87.2	89.6	90.1	90.2	88.9	84.3	78.0	72.0	81.7
	MEAN DAILY MAXIMUM	83	70.5	70.9	75.7	81.3	87.2	89.1	90.1	90.4	88.5	84.1	77.0	72.3	81.4
	HIGHEST DAILY MAXIMUM	69	86	88	91	93	98	99	97	98	96	94	92	86	99
	YEAR OF OCCURRENCE		2002	1971	1949	1975	1975	1985	2015	1975	1991	1990	2015	2015	JUN 1985
	MEAN OF EXTREME MAXS.	83	81.0	82.0	85.3	88.8	93.1	94.7	94.6	94.4	93.4	90.4	85.6	82.1	88.8
	NORMAL DAILY MINIMUM	30	51.6	54.4	58.2	63.0	69.7	74.8	75.9	76.2	74.5	68.0	60.3	54.2	65.1
	MEAN DAILY MINIMUM	83	51.0	51.7	56.6	61.9	68.3	72.7	74.8	74.9	73.0	66.5	57.9	53.0	63.5
	LOWEST DAILY MINIMUM	69	21	24	29	40	49	53	63	67	57	40	23	18	18
	YEAR OF OCCURRENCE		1985	1958	1980	1987	1992	1984	1970	1973	1981	1964	1970	1962	DEC 1962
	MEAN OF EXTREME MINS.	83	32.8	36.3	41.6	49.2	58.8	67.3	70.6	71.1	67.8	53.1	42.1	35.7	52.2
	NORMAL DRY BULB	30	60.8	63.4	67.3	72.0	78.4	82.2	83.0	83.2	81.7	76.2	69.1	63.1	73.4
	MEAN DRY BULB	83	60.8	61.3	66.2	71.6	77.8	81.0	82.4	82.7	80.7	75.3	67.5	62.6	72.5
	MEAN WET BULB	32	54.2	56.0	59.2	63.3	68.7	73.6	75.1	75.5	73.8	67.6	61.4	57.0	65.5
	MEAN DEW POINT	32	53.1	54.7	57.9	61.8	67.4	72.7	74.3	74.8	73.1	66.7	60.5	55.7	64.4
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.3	6.9	14.4	17.0	18.7	12.9	2.3	0.0	0.0	72.5
	MAXIMUM <= 32	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MINIMUM <= 32	30	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	182	106	56	11	0	0	0	0	0	4	40	139	538
	NORMAL COOLING DEG. DAYS	30	50	63	126	221	417	516	558	564	501	350	164	80	3610
RH	NORMAL (PERCENT)	30	76	74	73	70	71	75	77	79	79	76	76	77	75
	HOURLY 01 LST	30	85	84	83	82	82	85	86	88	88	87	86	86	85
	HOURLY 07 LST	30	87	87	87	86	85	86	88	90	91	90	89	88	88
	HOURLY 13 LST	30	60	57	55	52	54	60	64	65	63	58	59	61	59
	HOURLY 19 LST	30	74	70	68	64	64	70	74	76	76	73	74	75	72
S	PERCENT POSSIBLE SUNSHINE	57	66	66	71	75	75	67	62	62	62	66	64	61	66
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISIB <= 1/4 MI)	52	3.6	2.5	1.6	0.6	0.2	0.3	0.3	0.2	0.2	0.5	1.7	2.5	14.2
	THUNDERSTORMS	68	1.0	1.6	2.4	2.4	4.9	13.3	19.6	19.2	10.4	2.5	1.0	1.1	79.4
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	1	1.0	2.0	9.0		9.0	9.0							
	PARTLY CLOUDY	1	1.0	2.0	3.0		10.0	9.0							
CLOUDY	1	3.0	1.0	8.0		2.0	5.0								
PR	MEAN STATION PRESSURE (IN)	32	30.10	30.09	30.06	30.02	30.00	30.00	30.04	30.00	29.96	30.00	30.07	30.12	30.04
	MEAN SEA-LEVEL PRES. (IN)	32	30.14	30.11	30.07	30.03	30.01	30.01	30.05	30.01	29.97	30.01	30.08	30.13	30.05
WINDS	MEAN SPEED (MPH)	32	7.2	7.4	8.0	7.7	7.2	6.6	5.7	5.6	6.2	6.7	7.1	6.8	6.9
	PREVAIL. DIR. (TENS OF DEGS)	47	03	33	32	09	28	28	26	10	06	05	03	03	05
	MAXIMUM 2-MINUTE: SPEED (MPH)	20	44	36	36	44	39	37	37	33	45	40	35	43	45
	DIR. (TENS OF DEGS)		32	28	27	28	25	18	26	30	35	21	19	32	35
	YEAR OF OCCURRENCE		1999	1998	2012	1997	2011	2012	2004	2011	2004	1996	2000	2004	SEP 2004
	MAXIMUM 3-SECOND SPEED (MPH)	20	51	44	52	49	52	53	47	44	54	53	41	52	54
	DIR. (TENS OF DEGS)		32	09	25	28	09	17	20	32	35	21	17	31	35
YEAR OF OCCURRENCE		1999	1998	2012	1997	2009	2012	2001	2014	2004	1996	2000	2004	SEP 2004	
PRECIPITATION	NORMAL (IN)	30	2.23	2.81	3.03	2.03	2.10	6.68	7.07	7.77	6.30	2.26	1.55	2.47	46.30
	MAXIMUM MONTHLY (IN)	69	8.02	10.82	12.64	10.71	17.64	18.66	20.59	18.59	13.98	7.36	6.12	15.57	20.59
	YEAR OF OCCURRENCE		1948	1998	1959	1997	1979	2012	1960	1949	1979	1952	1963	1997	JUL 1960
	MINIMUM MONTHLY (IN)	69	T	0.21	T	T	0.02	1.46	1.65	2.35	.79	T	T	0.07	0.02
	YEAR OF OCCURRENCE		1950	1950	2006	1981	2001	1997	1981	1952	2005	2010	1960	1984	MAY 2001
	MAXIMUM IN 24 HOURS (IN)	69	3.81	8.54	5.20	5.44	11.84	8.57	12.11	5.37	8.45	2.93	4.48	4.76	12.11
	YEAR OF OCCURRENCE		1996	2006	1960	1997	1979	2012	1960	1949	1997	1985	1988	1997	JUL 1960
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	6.8	6.6	6.6	4.9	5.5	12.7	15.9	16.0	12.2	6.5	5.1	5.8	104.6
PRECIPITATION >= 1.00	30	0.5	0.8	1.0	0.6	0.6	2.2	2.1	2.5	2.0	0.7	0.4	0.8	14.2	
SNOWFALL	NORMAL (IN)	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAXIMUM MONTHLY (IN)	69	0.2	T	0.0	T	0.0	0.0	0.0	T	0.0	T	0.0	T	0.2
	YEAR OF OCCURRENCE		1977	1951	2006	1997				2013	2006		2010	1989	JAN 1977
	MAXIMUM IN 24 HOURS (IN)	69	0.2	T	T	T	0.0	0.0	T	T	0.0	0.0	0.0	T	0.2
	YEAR OF OCCURRENCE		1977	1951	1980	1997				2013	2006			1989	JAN 1977
	MAXIMUM SNOW DEPTH (IN)	67	0	0	0	0	0	0	0	0	0	0	0	0	0
YEAR OF OCCURRENCE															
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

PRECIPITATION (inches) 2015 TAMPA (KTPA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	2.37	1.49	4.27	0.95	2.46	5.00	6.24	5.46	3.87	6.21	1.33	1.95	41.60
1987	3.29	1.50	12.01	0.39	2.86	3.39	6.06	8.50	4.76	1.46	4.36	0.50	49.08
1988	2.76	1.44	4.09	1.83	1.27	5.19	3.40	11.09	13.56	0.09	5.97	1.64	52.33
1989	1.54	0.41	1.79	0.71	0.24	7.41	8.86	7.90	6.11	1.89	2.05	4.72	43.63
1990	0.53	4.58	1.71	1.47	1.76	5.16	10.01	3.27	2.42	2.63	0.66	0.19	34.39
1991	2.41	0.41	4.73	1.54	6.88	3.78	9.92	7.35	3.43	0.78	1.26	0.67	43.16
1992	1.47	3.67	0.95	2.17	0.10	7.03	2.80	8.22	2.95	2.20	2.43	0.99	34.98
1993	3.60	2.32	3.93	2.45	1.74	3.18	2.92	5.06	6.60	4.23	0.22	1.28	37.53
1994	3.68	0.43	0.66	3.43	0.07	5.98	11.31	8.37	8.20	3.29	0.24	1.57	47.23
1995	3.51	2.02	2.02	1.48	1.67	9.79	10.12	13.75	2.80	4.71	1.24	1.02	54.13
1996	5.42	3.04	4.65	4.20	1.45	8.96	2.72	7.39	5.44	3.12	.91	2.11	49.41
1997	0.95	0.66	1.28	10.71	1.70	1.46	6.73	8.20	12.84	4.20	3.41	15.57	67.71
1998	4.64	10.82	5.16	0.41	1.96	2.65	12.95	6.55	8.42	0.47	0.40	0.92	55.35
1999	3.04	0.29	0.72	0.40	1.52	4.65	3.65	8.35	6.05	2.85	1.78	1.02	34.32
2000	1.95	0.30	0.41	0.43	0.02	4.53	8.14	5.44	5.14	0.06	2.04	1.39	29.85
2001	1.03	1.18	6.73	0.02	T	6.81	6.01	2.83	11.76	2.39	0.10	0.89	39.75
2002	2.49	2.84	0.63	1.84	1.07	11.57	7.33	8.82	7.51	2.11	1.76	14.10	62.07
2003	0.11	2.90	3.94	4.19	2.50	13.19	3.63	14.90	4.01	0.46	0.86	1.30	51.99
2004	3.73	4.02	1.11	2.04	1.44	9.01	10.19	14.03	9.77	1.70	0.73	1.54	59.31
2005	0.57	1.80	3.32	2.76	3.61	12.26	3.38	4.09	0.79	4.20	0.90	1.27	38.95
2006	0.74	9.09	T	1.03	1.43	8.93	9.46	6.78	12.40	0.87	2.76	3.17	56.66
2007	1.43	1.77	0.92	1.92	0.35	8.70	7.78	10.73	4.87	2.11	0.11	1.30	41.99
2008	2.54	4.28	3.67	2.64	0.73	7.54	9.84	4.86	2.27	3.52	0.65	1.23	43.77
2009	2.38	0.71	0.98	1.22	9.11	5.10	10.23	3.52	5.24	2.24	2.82	2.32	45.87
2010	3.42	1.99	5.88	3.47	1.84	4.63	6.08	9.29	1.13	T	2.06	0.55	40.34
2011	6.28	0.64	9.79	2.61	0.70	5.18	7.31	10.02	6.09	3.17	1.24	0.19	53.22
2012	1.08	1.89	0.97	2.29	2.60	18.66	8.40	9.07	5.57	3.10	0.16	2.20	55.99
2013	0.63	0.93	2.06	3.65	1.85	11.30	10.19	11.91	7.37	0.82	0.96	0.81	52.48
2014	3.14	1.81	4.95	0.89	8.54	1.77	12.68	6.17	9.57	1.52	5.26	1.57	57.87
2015	1.75	6.55	1.03	4.82	6.74	6.23	11.84	16.47	5.46	1.17	0.95	0.49	63.50
POR= 83 YRS	2.19	2.92	3.14	2.10	2.77	6.71	7.74	8.02	6.35	2.37	1.57	2.16	48.04

WBAN : 12842

AVERAGE TEMPERATURE (°F) 2015 TAMPA (KTPA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	59.3	65.0	65.4	69.1	77.4	81.8	83.0	82.6	82.3	76.8	76.3	66.5	73.8
1987	59.2	63.2	66.4	66.4	77.8	82.7	83.1	83.7	81.4	71.3	68.9	64.3	72.4
1988	58.6	59.1	65.6	70.6	75.3	81.0	82.7	82.9	82.0	73.5	70.8	63.0	72.1
1989	67.1	64.9	69.8	72.0	78.4	82.4	83.3	83.0	82.4	75.4	68.9	56.2	73.7
1990	66.1	69.2	69.7	72.1	80.5	82.7	82.5	83.9	82.8	77.6	70.2	66.9	75.4
1991	66.7	64.2	68.4	76.8	81.2	81.3	82.3	83.2	81.9	75.3	65.8	64.6	74.3
1992	59.8	63.6	64.8	69.4	74.3	82.1	83.8	82.4	82.0	72.7	70.0	64.3	72.4
1993	67.0	60.2	64.3	67.2	76.1	81.8	83.8	83.7	81.9	75.8	69.1	59.5	72.5
1994	60.6	66.9	68.0	75.4	78.2	82.6	81.7	81.7	80.2	76.5	72.4	65.1	74.1
1995	58.8	61.4	68.7	73.5	81.8	80.2	83.0	83.3	82.0	77.8	65.2	61.0	73.1
1996	59.2	60.0	62.4	70.4	79.3	80.9	83.7	83.2	82.0	75.8	68.1	63.5	72.4
1997	62.6	68.6	73.9	71.6	77.7	81.8	82.7	82.8	81.7	74.7	66.8	61.3	73.9
1998	63.6	62.5	64.6	72.3	79.2	85.6	83.5	83.6	81.7	77.5	72.5	68.0	74.6
1999	63.8	64.2	65.1	74.3	77.8	81.2	83.6	83.7	80.9	76.3	68.9	63.2	73.6
2000	61.3	63.7	71.0	71.6	80.3	82.4	82.1	82.8	82.3	74.3	66.7	60.3	73.2
2001	55.2	68.2	65.7	72.7	77.4	82.2	82.1	83.2	79.3	75.1	71.3	68.8	73.4
2002	63.1	62.4	69.7	76.3	79.9	81.4	82.3	82.4	82.8	78.9	65.7	60.1	73.8
2003	54.8	63.3	71.7	72.1	80.0	81.7	82.7	81.9	81.3	76.9	71.4	59.8	73.1
2004	59.6	63.0	68.0	70.2	78.9	83.3	82.7	82.3	81.2	76.8	70.2	61.3	73.1
2005	62.6	64.0	65.1	69.0	76.6	80.7	84.2	84.8	82.9	76.0	70.4	59.3	73.0
2006	62.6	60.6	67.3	74.2	77.3	81.7	82.7	83.3	82.1	76.1	67.9	69.5	73.8
2007	64.9	60.8	69.5	71.0	78.0	81.5	83.7	84.9	82.6	79.8	68.7	68.4	74.5
2008	62.1	66.0	67.7	72.5	79.8	83.3	81.9	82.2	81.9	75.1	65.3	66.1	73.7
2009	61.2	61.8	69.3	73.8	78.7	83.0	83.2	83.9	82.6	78.0	68.9	63.2	74.0
2010	54.7	55.0	61.7	72.8	81.0	84.8	84.3	84.4	83.2	76.2	69.3	53.2	71.7
2011	58.7	65.3	69.3	76.4	79.2	83.6	84.4	85.1	82.6	73.9	70.2	67.6	74.7
2012	63.1	67.9	74.4	74.8	80.8	80.7	83.3	83.3	81.8	76.4	66.3	65.1	74.8
2013	67.1	65.1	61.6	75.5	77.6	82.3	82.4	83.8	81.9	77.3	70.2	68.5	74.4
2014	57.2	64.9	65.7	72.6	78.0	82.3	83.0	84.3	81.1	75.9	64.4	64.9	72.9
2015	62.4	59.7	73.0	78.0	80.5	82.8	83.2	83.3	82.8	78.0	76.2	73.4	76.1
POR= 83 YRS	60.8	61.3	66.2	71.6	77.8	81.0	82.4	82.7	80.7	75.3	67.5	62.6	72.5

HEATING DEGREE DAYS (base 65°F) 2015 TAMPA (KTPA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0	0	0	4	46	107	221	195	85	14	0	0	672
1988-89	0	0	0	0	9	127	41	116	45	7	0	0	345
1989-90	0	0	0	17	27	285	70	32	13	5	0	0	449
1990-91	0	0	0	7	11	70	72	84	46	0	0	0	290
1991-92	0	0	0	0	93	94	179	90	69	32	5	0	562
1992-93	0	0	0	0	57	83	58	137	84	24	0	0	443
1993-94	0	0	0	6	44	185	158	62	50	5	0	0	510
1994-95	0	0	0	0	7	81	200	151	23	1	0	0	463
1995-96	0	0	0	0	83	180	198	188	152	16	0	0	817
1996-97	0	0	0	3	36	101	132	39	0	7	0	0	318
1997-98	0	0	0	7	36	163	108	103	113	4	0	0	534
1998-99	0	0	0	0	4	56	118	97	44	6	5	0	330
1999-00	0	0	0	5	20	110	154	99	3	10	0	0	401
2000-01	0	0	0	3	61	212	318	48	60	8	0	0	710
2001-02	0	0	0	9	0	65	165	100	43	0	0	0	382
2002-03	0	0	0	0	84	174	311	87	11	16	0	0	683
2003-04	0	0	0	0	21	175	195	110	29	15	0	0	545
2004-05	0	0	0	0	7	160	131	71	93	13	0	0	475
2005-06	0	0	0	13	18	176	130	145	41	0	0	0	523
2006-07	0	0	0	4	55	40	95	147	34	27	0	0	402
2007-08	0	0	0	0	24	42	141	63	34	13	0	0	317
2008-09	0	0	0	22	84	67	162	126	38	9	0	0	508
2009-10	0	0	0	11	29	125	332	280	118	0	0	0	895
2010-11	0	0	0	0	24	363	203	79	26	0	0	0	695
2011-12	0	0	0	1	14	40	103	47	3	2	0	0	210
2012-13	0	0	0	6	35	85	52	79	143	0	0	0	400
2013-	0	0	0	0	30	32							
2013-14	0	0	0	0	30	32	256	78	48	0	0	0	444
2014-15	0	0	0	0	88	89	127	151	12	0	0	0	467
2015-	0	0	0	0	5	8							

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COOLING DEGREE DAYS (base 65°F) 2015 TAMPA (KTPA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1986	15	85	123	139	391	510	565	551	526	374	348	107	3734
1987	27	43	91	114	405	538	567	583	497	207	169	91	3332
1988	30	32	110	188	326	489	554	562	517	271	191	74	3344
1989	112	120	202	224	425	528	575	564	529	344	151	18	3792
1990	107	154	164	225	487	537	549	592	541	406	176	139	4077
1991	131	68	158	361	509	498	543	572	515	326	126	88	3895
1992	25	55	70	170	301	519	589	544	518	248	212	72	3323
1993	126	12	72	95	352	511	593	587	513	347	174	21	3403
1994	32	118	148	321	415	535	524	524	461	364	233	91	3766
1995	15	59	145	264	526	464	561	574	518	405	95	63	3689
1996	27	50	76	182	450	482	589	570	516	348	135	63	3488
1997	62	145	283	213	397	510	556	559	508	314	97	55	3699
1998	75	41	107	229	446	623	582	583	506	394	236	160	3982
1999	85	84	52	294	409	492	583	589	481	363	144	62	3638
2000	48	68	197	213	482	529	537	558	524	300	121	71	3648
2001	22	141	92	245	393	522	536	571	434	326	196	187	3665
2002	114	34	192	347	466	499	543	544	541	437	114	28	3859
2003	2	48	226	236	473	505	553	532	495	375	219	19	3683
2004	33	58	130	179	440	553	558	542	493	371	169	53	3579
2005	61	47	103	143	366	479	601	619	547	362	186	7	3521
2006	63	30	120	280	388	508	556	575	519	357	150	188	3734
2007	99	35	179	214	409	503	588	624	539	466	142	155	3953
2008	60	99	125	243	463	555	531	540	512	342	101	107	3678
2009	48	40	175	279	432	548	571	593	533	425	155	77	3876
2010	20	7	23	239	502	601	605	607	555	353	160	4	3676
2011	14	94	166	349	446	567	607	630	535	282	180	125	3995
2012	53	137	302	303	497	479	571	578	509	366	81	95	3971
2013	125	89	45	319	397	523	549	590	515	389	195	150	3886
2014	21	83	78	235	406	526	564	606	489	344	75	95	3522
2015	56	11	265	399	489	543	573	577	540	412	350	275	4490

SNOWFALL (inches) 2015 TAMPA (KTPA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1989-90	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1996-97	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	T
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1998-99	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2005-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2006-07	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2007-08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008-09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2009-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2010-11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2012-13	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2013-	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2013-14	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2014-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POR= 83 YRS	T	T	0.0	0.0	0.0	T	T	0.0	0.0	T	0.0	0.0	T

WBAN : 12842

REFERENCE NOTES :

PAGE 1:
THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).

PAGE 2 AND 3:

H/C INDICATES HEATING AND COOLING DEGREE DAYS.

RH INDICATES RELATIVE HUMIDITY

W/O INDICATES WEATHER AND OBSTRUCTIONS

S INDICATES SUNSHINE.

PR INDICATES PRESSURE.

CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).

GENERAL:

T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE.

+ INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES.

BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM.

PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH.

POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING.

WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED.

0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05.

CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET

CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.

GENERAL CONTINUED:

WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH.

RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION.

AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2.

SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN

PRECIPITATION, INCLUDING HAIL.

A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F.

DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR.

DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY.

WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.

ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS:

<http://www.ncdc.noaa.gov/homr/>

SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:

The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2015 TAMPA FLORIDA (KTPA)

Tampa is on west central coast of the Florida Peninsula. Very near the Gulf of Mexico at the upper end of Tampa Bay, land and sea breezes modify the subtropical climate. Major rivers flowing into the area are the Hillsborough, the Alafia, and the Little Manatee.

Winters are mild. Summers are long, rather warm, and humid. Low temperatures are about 50 degrees in the winter and 70 degrees during the summer. Afternoon highs range from the low 70s in the winter to around 90 degrees from June through September. Invasions of cold northern air produce an occasional cool winter morning. Freezing temperatures occur on one or two mornings per year during December, January, and February. In some years no freezing temperatures occur. Temperatures rarely fail to recover to the 60s on the cooler winter days. Temperatures above the low 90s are uncommon because of the afternoon sea breezes and thunderstorms. An outstanding feature of the Tampa climate is the summer thunderstorm season. Most of the thunderstorms occur in the late afternoon hours from June through September. The resulting sudden drop in temperature from about 90 degrees to around 70 degrees makes for a pleasant change. Between a dry spring and a dry fall, some 30 inches of rain, about 60 percent of the annual total, falls during the summer months. Snowfall is very rare. Measurable snows under 1/2 inch have occurred only a few times in the last one hundred years.

A large part of the generally flat sandy land near the coast has an elevation of under 15 feet above sea level. This does make the area vulnerable to tidal surges. Tropical storms threaten the area on a few occasions most years. The greatest risk of hurricanes has been during the months of June and October. Many hurricanes, by replenishing the soil moisture and raising the water table, do far more good than harm. The heaviest rains in a 24-hour period, around 12 inches, have been associated with hurricanes.

Fittingly named the Suncoast, the sun shines more than 65 percent of the possible, with the sunniest months being April and May. Afternoon humidities are usually 60 percent or higher in the summer months, but range from 50 to 60 percent the remainder of the year.

Night ground fogs occur frequently during the cooler winter months. Prevailing winds are easterly, but westerly afternoon and early evening sea breezes occur most months of the year. Winds in excess of 25 mph are not common and usually occur only with thunderstorms or tropical disturbances.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is December 26 and the average last occurrence in the spring is February 3.

Station History

TAMPA, FL

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
TAMPA INTL AP	1980-01-01	1981-12-31	27° 58'	-82° 31'	19		COOP, WXSVC
TAMPA INTL AP	1995-11-01	2010-11-10	27° 57'	-82° 32'	19	999 UN UN	ASOS, COOP
TAMPA INTL AP	1975-06-30	1980-01-01	27° 58'	-82° 31'	33		COOP, WXSVC
TAMPA INTL AP	1981-12-31	1995-11-01	27° 58'	-82° 31'	19		COOP
TAMPA PETER O KNIGHT AP	1933-11-01	1943-05-01	27° 58'	-82° 31'			AIRWAYS
TAMPA INTL AP	1946-06-06	1948-07-01	27° 58'	-82° 31'			AIRWAYS, UPPERAIR
TAMPA INTL AP	2010-11-10	Present	27° 57'	-82° 32'	19		ASOS, COOP
TAMPA INTL AP	1948-07-01	1952-01-01	27° 58'	-82° 31'	36		AIRWAYS, COOP, UPPERAIR
TAMPA INTL AP	1969-01-01	1975-06-30	27° 58'	-82° 31'	33		COOP, UPPERAIR, WXSVC
TAMPA PETER O KNIGHT AP	1943-05-01	1946-06-06	27° 58'	-82° 31'			AIRWAYS, UPPERAIR
TAMPA INTL AP	1952-01-01	1969-01-01	27° 58'	-82° 31'	33		AIRWAYS, COOP, UPPERAIR

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1995-11-01	2009-01-27	DAILY	2400	HYGR		
PRECIP	2010-11-10	Present	DAILY	2400	PCPNX		ROOF
PRECIP	2010-11-10	Present	HOURLY	2400	AHTB	SHLD;RCRD;HTD	
TEMP	2010-11-10	Present	DAILY	2400	TEMPX	SHLD	
TEMP	1933-11-01	1978-12-01	DAILY	2400			
TEMP	2009-01-27	2010-11-10	DAILY	2400	HYGR		
WIND	2009-01-27	2010-11-10	HOURLY	UNKN	ANEMSONIC		
PRECIP	1991-10-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1995-11-01	HOURLY	2400	UNIV	RCRD	
WIND	1995-11-01	2009-01-27	HOURLY	UNKN	ANEMCUP		
TEMP	1978-12-01	1991-10-01	DAILY	2400			
PRECIP	1995-07-01	1995-11-01	DAILY	2400	UNIV	RCRD	
PRECIP	2009-01-27	2010-11-10	HOURLY	2400	TB	RCRD	
WIND	2010-11-10	Present	HOURLY	2400	ANEMSONIC		
PRECIP	1978-12-01	1991-10-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-11-01	2009-01-27	DAILY	2400			
PRECIP	2009-01-27	2010-11-10	DAILY	2400			
PRECIP	1933-11-01	1978-12-01	DAILY	2400			
TEMP	1991-10-01	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1991-10-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1995-11-01	2009-01-27	HOURLY	2400	TB	RCRD	
PRECIP	1978-12-01	1991-10-01	HOURLY	2400			
PRECIP	1991-10-01	1995-07-01	HOURLY	2400			
TEMP	1995-07-01	1995-11-01	DAILY	2400	HYGR		

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

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