NRCC Hourly ACIS Tools

Keith Eggleston
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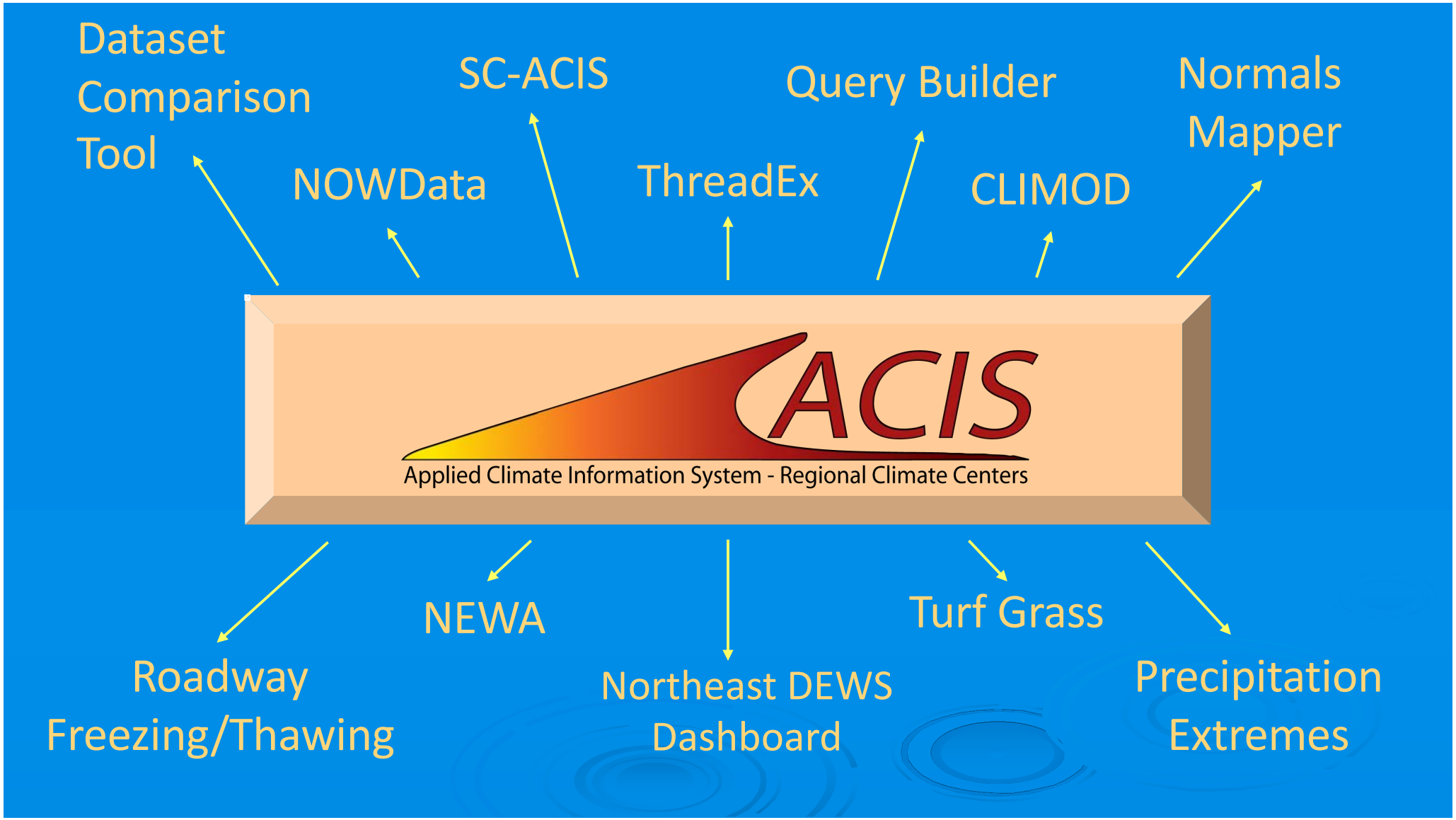
Northeast Regional Climate Center

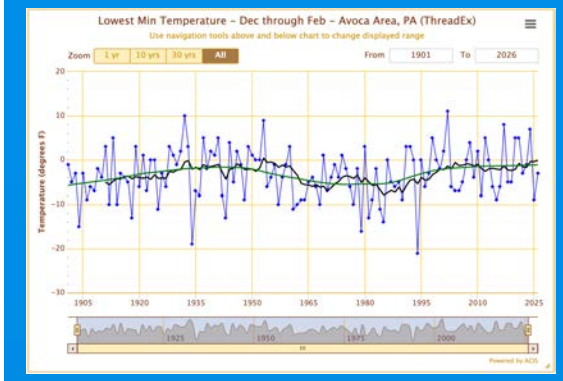
ACIS
Applied Climate Information System - Regional Climate Centers

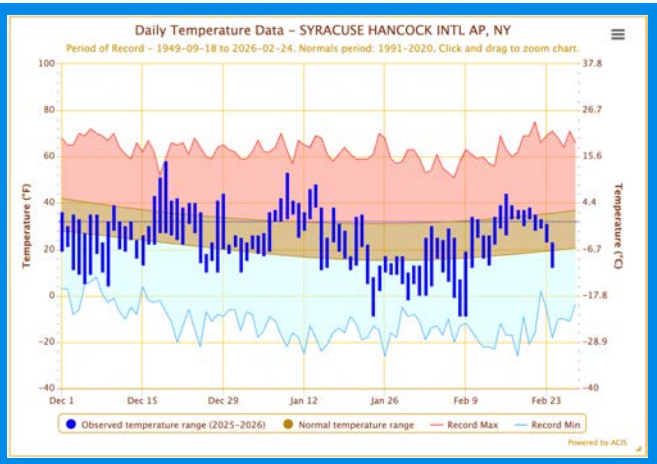

Dataset Comparison Tool
SC-ACIS
Query Builder
Normals Mapper
NOWData
ThreadEx
CLIMOD
ACIS
Applied Climate Information System - Regional Climate Centers
NEWA
Turf Grass
Roadway Freezing/Thawing
Northeast DEWS Dashboard
Precipitation Extremes

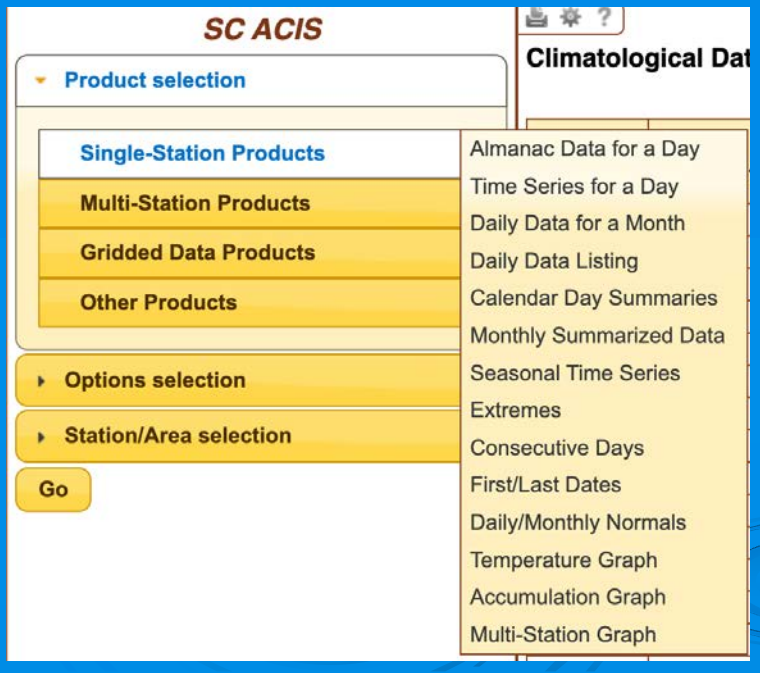
Monthly Total Snowfall for HIGHMARKET 2W, NY

Click column heading to sort ascending, click again to sort descending.

Year	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Season
1999-2000	0.0	0.0	0.0	0.0	12.0	49.0	25.0	54.3	12.7	8.6	0.0	0.0	161.6
2000-2001	0.0	0.0	0.0	3.3	30.5	70.9	42.8	43.6	47.4	0.1	0.0	0.0	238.6
2001-2002	0.0	0.0	0.0	8.1	0.6	84.3	98.7	33.5	61.3	5.8	0.1	0.0	292.4
2002-2003	0.0	0.0	0.0	1.1	48.8	54.4	114.0	33.9	21.5	18.2	0.0	0.0	291.9
2003-2004	0.0	0.0	0.0	1.3	22.7	37.1	91.0	41.3	30.9	1.3	T	0.0	225.6
2004-2005	0.0	0.0	0.0	T	2.1	43.2	44.1	39.7	28.9	0.1	T	0.0	158.1
2005-2006	0.0	0.0	0.0	2.8	17.1	90.9	29.2	54.2	8.8	2.6	T	0.0	205.6
2006-2007	0.0	0.0	0.0	17.3	10.1	30.6	39.8	114.4	30.3	35.6	0.0	0.0	278.1
2007-2008	0.0	0.0	0.0	T	10.9	49.0	67.0	58.9	33.6	0.1	T	0.0	219.5
2008-2009	0.0	0.0	0.0	8.1	56.9	52.8	66.6	32.0	0.4	7.4	0.0	0.0	224.2
2009-2010	0.0	0.0	0.0	0.0	1.2	70.8	18.0	38.8	0.7	1.7	1.3	0.0	132.5
2010-2011	0.0	0.0	0.0	T	3.9	15.7	45.5	46.2	23.5	3.7	0.0	0.0	138.5
2011-2012	0.0	0.0	0.0	0.3	10.4	31.0	43.0	27.0	14.3	3.2	T	M	129.2
2012-2013	M	M	M	T	13.8	38.1	41.3	68.0	44.4	5.5	0.5	0.0	211.6
2013-2014	0.0	0.0	0.0	6.8	12.3	105.7	61.8	40.7	36.0	2.3	T	0.0	265.6
2014-2015	T	0.0	0.0	T	47.1	18.1	42.2	53.9	17.5	4.2	T	0.0	183.0
2015-2016	0.0	0.0	0.0	0.5	2.2	37.4	53.7	15.3	6.9	6.8	0.7	0.0	123.5
2016-2017	0.0	0.0	0.0	0.6	15.4	62.9	35.5	56.0	16.5	1.5	0.4	0.0	188.8
2017-2018	0.0	0.0	0.0	0.0	12.7	96.2	28.1	44.1	25.7	11.0	0.0	0.0	217.8
2018-2019	0.0	0.0	0.0	0.8	42.4	19.4	39.2	38.9	18.5	4.8	0.2	0.0	164.2
2019-2020	0.0	0.0	0.0	0.0	12.5	34.7	38.1	44.4	5.2	6.3	3.8	0.0	145.0
2020-2021	0.0	0.0	0.0	T	20.1	40.4	64.6	48.0	6.5	6.2	1.0	0.0	186.8
2021-2022	0.0	0.0	0.0	0.0	27.5	25.8	48.1	50.6	24.8	26.4	0.0	0.0	203.2
2022-2023	0.0	0.0	0.0	T	21.6	65.1	25.8	26.8	38.4	3.2	0.0	0.0	180.9
2023-2024	0.0	0.0	0.0	T	49.6	13.3	56.2	34.1	28.0	9.1	0.0	0.0	190.3
2024-2025	0.0	0.0	0.0	T	17.9	66.3	95.1	62.0	20.2	12.7	0.0	0.0	274.2
2025-2026	0.0	0.0	0.0	0.0	27.0	65.7	90.9	30.0	M	M	M	M	213.6
Mean	T	0.0	0.0	1.9	20.3	50.7	53.5	45.6	23.2	7.2	0.3	0.0	201.6
Max	T 2014	0.0 2025	0.0 2025	17.3 2006	56.9 2008	105.7 2013	114.0 2003	114.4 2007	61.3 2002	35.6 2007	3.8 2020	0.0 2025	292.4 2002
Min	0.0 2025	0.0 2025	0.0 2025	0.0 2025	0.6 2001	13.3 2023	18.0 2010	15.3 2016	0.4 2009	0.1 2008	0.0 2025	0.0 2025	123.5 2016





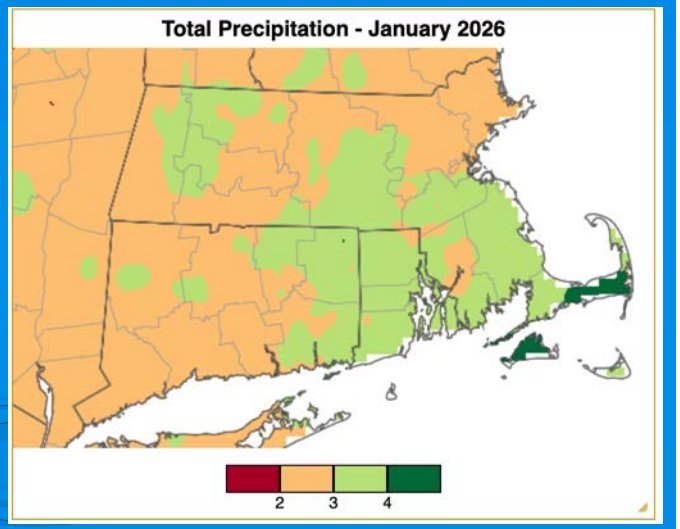


Climatological Data for RHODE ISLAND T.F. GREEN INTERNATIONAL AIRPORT, RI - February 2026

Click column heading to sort ascending, click again to sort descending.

Date	Max Temperature	Min Temperature	Avg Temperature	Avg Temperature Departure	HDD	CDD	Precipitation	Snowfall	Snow Depth
2026-02-01	24	9	16.5	-13.4	48	0	T	T	10
2026-02-02	34	13	23.5	-6.5	41	0	0.00	0.0	10
2026-02-03	33	13	23.0	-7.1	42	0	0.00	0.0	10
2026-02-04	32	18	25.0	-5.2	40	0	0.00	0.0	10
2026-02-05	33	10	21.5	-8.9	43	0	0.00	0.0	10
2026-02-06	33	11	22.0	-8.5	43	0	T	T	10
2026-02-07	28	6	17.0	-13.6	48	0	0.18	2.6	11
2026-02-08	18	2	10.0	-20.7	55	0	0.00	0.0	11
2026-02-09	32	10	21.0	-9.9	44	0	0.00	0.0	10
2026-02-10	31	12	21.5	-9.5	43	0	0.03	0.2	10
2026-02-11	42	31	36.5	5.3	28	0	0.11	1.1	11
2026-02-12	36	24	30.0	-1.4	35	0	T	T	10
2026-02-13	39	20	29.5	-2.1	35	0	0.00	0.0	8
2026-02-14	38	21	29.5	-2.2	35	0	0.00	0.0	8
2026-02-15	37	17	27.0	-4.9	38	0	0.00	0.0	8
2026-02-16	38	25	31.5	-0.6	33	0	0.00	0.0	7
2026-02-17	37	23	30.0	-2.3	35	0	0.00	0.0	7
2026-02-18	37	32	34.5	2.0	30	0	0.25	0.0	7
2026-02-19	40	29	34.5	1.8	30	0	0.00	0.0	5
2026-02-20	35	23	29.0	-3.9	36	0	0.38	0.3	5
2026-02-21	35	30	32.5	-0.6	32	0	0.02	0.1	5
2026-02-22	34	30	32.0	-1.3	33	0	0.11	2.4	7
2026-02-23	32	25	28.5	-5.1	36	0	0.58	35.5	21
2026-02-24	31	18	24.5	-9.3	40	0	0.00	0.0	39
2026-02-25	M	M	M	M	M	M	M	M	M
2026-02-26	M	M	M	M	M	M	M	M	M
2026-02-27	M	M	M	M	M	M	M	M	M
2026-02-28	M	M	M	M	M	M	M	M	M
Sum	809	452	-	-	923	0	1.66	42.2	-
Average	33.7	18.8	26.3	-5.3	-	-	-	-	10.4
Normal	40.1	23.1	31.6	-	801	0	2.89	9.3	-

Above Normals represent the month through 2026-02-24.



ACIS Databases

Daily Period of Record

- NCEI GHCN-Daily – few months lag
- Unique ACIS datasets - static

Daily Near Real Time

- ASOS DSM – few hours lag
- NWS CF6 – few hours lag
- WxCoder, IVROCS – few hours lag
- CoCoRaHS – few hours lag

Hourly Period of Record

- NCEI GHCN-Hourly – few weeks lag
- Other hourly datasets

Hourly Near Real Time

- Decoded METAR reports
- Other hourly dataset updates

Cloud Conditions

Visibility

Present Weather

Temperature

Wet Bulb Temperature

Dewpoint

Relative Humidity

Wind Speed

Wind Direction

Wind Gust

Station Pressure

Sea Level Pressure

Altimeter Setting

Precipitation

Hourly Observations
SEATTLE TACOMA AIRPORT, WA

Date	Hour (LST)	Cloud Conditions (cover/ht)
2026-01-21	01	CLR
2026-01-21	02	CLR
2026-01-21	03	CLR
2026-01-21	04	CLR
2026-01-21	05	CLR
2026-01-21	06	CLR
2026-01-21	07	FEW001
2026-01-21	08	FEW001 FEW150 SCT250
2026-01-21	09	FEW003 FEW150 SCT250
2026-01-21	10	FEW003 FEW150 SCT250
2026-01-21	11	FEW001 FEW150 SCT250
2026-01-21	12	FEW002 FEW150 SCT250
2026-01-21	13	FEW002 FEW250
2026-01-21	14	FEW006 FEW250
2026-01-21	15	FEW250
2026-01-21	16	FEW250
2026-01-21	17	FEW010 FEW150 SCT250
2026-01-21	18	FEW150 SCT250
2026-01-21	19	FEW250
2026-01-21	20	FEW250
2026-01-21	21	SCT001 SCT250
2026-01-21	22	BKN003
2026-01-21	23	VV001
2026-01-22	00	VV001

- Cloud Conditions
- Visibility
- **Present Weather**
- Temperature
- Wet Bulb Temperature
- Dewpoint
- Relative Humidity
- Wind Speed
- Wind Direction
- Wind Gust
- Station Pressure
- Sea Level Pressure
- Altimeter Setting
- Precipitation

Hourly Observations
BOSTON LOGAN INTERNATIONAL AIRPORT, MA

Date	Hour (LST)	Present Weather (code)
2026-02-23	01	-SN
2026-02-23	02	BR -SN
2026-02-23	03	
2026-02-23	04	
2026-02-23	05	BR -SN
2026-02-23	06	FZFG SN
2026-02-23	07	FZFG +SN
2026-02-23	08	FZFG +SN
2026-02-23	09	FZFG +SN
2026-02-23	10	FZFG +SN
2026-02-23	11	FZFG +SN
2026-02-23	12	
2026-02-23	13	FZFG SN
2026-02-23	14	FZFG SN
2026-02-23	15	FZFG -SN
2026-02-23	16	FZFG SN
2026-02-23	17	BR -SN
2026-02-23	18	BR -SN
2026-02-23	19	BR -SN
2026-02-23	20	BR -SN
2026-02-23	21	BR -SN
2026-02-23	22	
2026-02-23	23	
2026-02-24	00	

Cloud Conditions
Visibility
Present Weather
Temperature
Wet Bulb Temperature
Dewpoint
Relative Humidity
Wind Speed
Wind Direction
Wind Gust
Station Pressure
Sea Level Pressure
Altimeter Setting
Precipitation

Hourly Observations
RHODE ISLAND T.F. GREEN INTERNATIONAL AIRPORT, RI

Date	Hour (LST)	Wind Speed (mph)	Wind Direction (degrees)	Wind Gust (mph)
2026-02-23	01	25.3	30	36.9
2026-02-23	02	24.2	30	33.3
2026-02-23	03	27.5	30	38.0
2026-02-23	04	28.9	30	50.6
2026-02-23	05	33.3	30	55.3
2026-02-23	06	32.2	20	56.4
2026-02-23	07	35.6	20	50.6
2026-02-23	08	34.4	20	63.3
2026-02-23	09	28.9	10	49.4
2026-02-23	10	33.3	10	50.6
2026-02-23	11	24.2	10	45.0
2026-02-23	12	26.4	360	53.0
2026-02-23	13	32.2	360	46.1
2026-02-23	14	25.3	350	43.6
2026-02-23	15	24.2	350	36.9
2026-02-23	16	16.1	350	32.2
2026-02-23	17	12.8	340	23.0
2026-02-23	18	15.0	330	25.3
2026-02-23	19	17.2	320	27.5
2026-02-23	20	13.9	320	25.3
2026-02-23	21	13.9	320	26.4
2026-02-23	22	12.8	330	23.0
2026-02-23	23	13.9	320	23.0
2026-02-24	00	12.8	310	26.4

- Cloud Conditions
- Visibility
- Present Weather
- Temperature
- Wet Bulb Temperature
- Dewpoint
- Relative Humidity
- Wind Speed
- Wind Direction
- Wind Gust
- Station Pressure
- Sea Level Pressure
- Altimeter Setting
- **Precipitation**

Sum of Hourly Precipitation (inches)
BINGHAMTON (GREATER AP), NY

Year ↑	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1971	1.55	4.25	2.62	1.62	1.36	1.00	1.81	1.30	0.52	0.61	2.34	3.78
1972	0.97	3.32	3.18	2.18	3.04	4.83	1.08	2.05	1.53	1.32	6.30	4.39
1973	1.27	1.74	2.34	3.44	1.76	1.31	1.24	1.76	1.70	1.78	1.12	4.53
1974	2.07	1.55	3.42	1.44	1.98	1.90	2.77	1.25	1.58	0.76	2.63	2.59
1975	2.10	3.52	1.70	1.37	2.20	1.79	3.31	3.83	5.71	2.05	1.78	2.78
1976	3.34	2.62	2.36	1.68	1.82	1.43	3.71	3.36	1.92	4.58	0.97	1.35
1977	1.63	2.37	4.09	2.24	1.30	2.64	1.68	1.88	6.30	3.63	4.13	4.60
1978	6.06	1.26	2.36	1.92	M	M	M	M	M	M	M	M
1979	6.39	1.67	2.73	3.13	4.26	0.98	1.45	2.44	5.70	2.46	3.70	1.83
1980	1.08	1.08	6.00	5.48	1.54	5.68	2.09	1.58	2.81	2.86	2.96	1.60
1981	0.89	3.88	0.69	3.18	1.94	3.42	1.99	1.99	3.40	4.72	1.67	2.49
1982	3.40	2.26	2.61	2.29	3.89	7.09	1.87	2.94	1.86	0.93	4.04	1.90
1983	2.56	1.50	2.57	8.57	4.05	4.08	2.20	3.21	1.53	2.61	3.58	6.11
1984	1.59	3.34	2.19	5.07	6.09	2.65	5.44	3.07	1.92	1.58	3.55	3.15
1985	1.30	1.30	3.63	0.98	2.69	2.61	4.14	2.72	0.07	0.00	0.00	0.00
1986	2.13	4.00	M	M	M	M	M	M	M	M	M	M
1987	3.04	0.67	M	M	M	M	M	M	M	M	M	M
1988	M	3.77	M	M	M	M	M	M	M	M	M	M
1989	1.50	1.95	4.15	M	M	M	M	M	M	M	M	M
1990	3.33	3.23	1.72	3.11	5.00	2.50	3.07	5.57	2.83	7.19	3.20	5.22
1991	2.11	2.13	3.42	4.22	1.90	2.36	1.96	3.78	2.61	1.65	4.50	2.74
1992	1.68	1.95	3.29	3.51	6.37	1.30	6.32	2.87	3.52	3.47	3.78	2.97
1993	2.11	2.71	3.68	7.10	1.99	3.99	2.30	4.28	3.92	3.41	3.59	3.30
1994	3.46	1.81	5.06	2.81	2.76	6.51	4.78	5.86	2.49	0.90	2.63	3.01
1995	2.71	2.27	1.12	2.87	1.76	1.71	2.10	3.00	3.53	6.68	2.89	0.79
Max	6.39	4.25	6.00	8.57	6.37	7.09	6.32	5.86	6.30	7.19	6.30	6.11
Mean	2.43	2.41	2.95	3.25	2.89	2.99	2.77	2.94	2.77	2.66	2.97	2.96
Min	0.89	0.67	0.69	0.98	1.30	0.98	1.08	1.25	0.07	0.00	0.00	0.00

Based on a total of 185,020 hourly observations; 34,124 missing.
Date range: 1971-01-01 through 1995-12-28.
M = missing data.

Derived variables:

Wind Chill

Heat Index

Modeled Solar Radiation

Hourly Wind Chill (degF) for February 2026
BUFFALO NIAGARA INTERNATIONAL AIRPOR, NY

Day	Hour (LST)								Mean
	1	2	3	4	5	6	7	8	
1	-2	-4	-4	-5	-3	-3	-3	2	-2.8
2	-9	-7	-7	-8	-7	-5	-4	-1	-6.0
3	11	11	11	12	12	13	13	13	12.0
4	2	3	3	4	6	3	-1	1	2.6
5	3	1	2	0	4	4	-4	-3	0.9
6	0	1	4	6	7	10	11	10	6.1
7	-13	-15	-17	-17	-22	-26	-26	-24	-20.0
8	-9	-7	-8	-10	-8	-9	-17	-16	-10.5
9	-16	-20	-18	-20	-20	-21	-18	-17	-18.8
10	12	-	-	17	16	16	13	14	14.7
11	22	24	24	22	21	19	19	17	21.0
12	17	16	15	14	13	12	13	11	13.9
13	11	10	11	8	9	8	7	7	8.9
14	22	25	25	22	20	17	14	15	20.0
15	17	14	15	16	17	17	15	17	16.0
16	20	-	-	-	-	17	18	19	18.5
17	33	36	33	32	33	30	30	30	32.1
18	29	27	28	29	27	29	27	27	27.9
19	21	22	21	22	22	21	21	22	21.5
20	31	32	34	35	M	36	34	35	33.9
21	20	20	20	20	M	M	21	20	20.2
22	23	23	23	23	23	24	25	25	23.6
[illegible]	22	23	21	19	18	15	15	16	18.6
24	3	2	2	1	M	-2	-1	-0	0.7

Derived variables:

Wind Chill

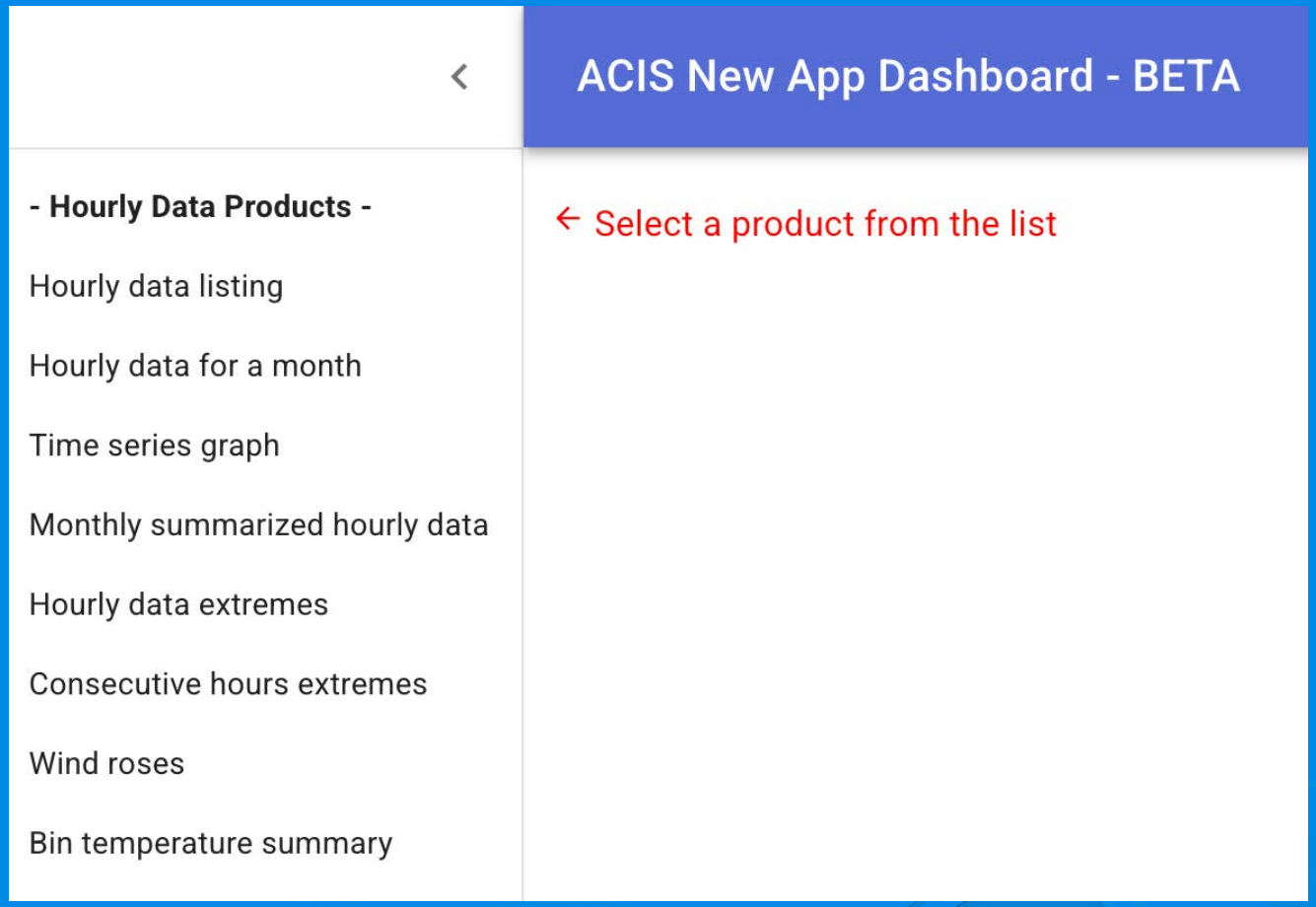
Heat Index

Modeled Solar Radiation

Hourly Solar Radiation (langley) for June 2025
WASHINGTON REAGAN NATIONAL AIRPORT, VA

Day ↑	Hour (LST)													Sum
	7	8	9	10	11	12	13	14	15	16	17	18	19	
1	19.8	35.6	50.2	59.3	63.9	70.9	74.4	66.9	59.6	48.7	35.2	20.4	6.3	611.2
2	19.9	35.6	50.1	62.0	70.1	74.1	74.3	70.7	63.0	51.6	37.3	21.6	6.8	637.1
3	15.0	30.9	49.6	61.4	69.4	73.4	73.6	70.1	62.5	51.1	37.0	21.5	6.8	622.3
4	19.3	34.6	48.8	60.4	68.5	72.4	72.7	66.1	59.0	48.3	36.6	21.3	6.8	614.8
5	19.2	34.4	48.5	57.1	68.1	68.8	69.1	65.0	56.0	48.1	34.8	20.3	6.5	595.9
6	18.2	32.5	38.5	47.6	61.2	64.8	65.8	62.7	35.3	37.1	31.0	18.1	6.6	519.4
7	12.0	13.6	23.9	31.6	40.1	54.4	52.8	62.1	48.2	46.0	33.4	20.5	6.7	445.3
8	13.4	22.3	44.2	27.6	26.4	30.2	25.3	29.4	20.5	19.6	14.2	9.7	2.7	285.5
9	6.4	11.5	34.0	42.7	52.9	64.8	65.0	62.8	35.9	29.1	24.5	17.7	6.0	453.3
10	14.3	26.4	37.2	49.6	64.5	69.1	60.3	58.8	51.3	42.6	30.3	20.6	6.9	531.9
11	19.4	34.7	48.9	57.1	64.7	69.2	66.3	63.2	53.8	44.2	32.2	20.8	7.1	581.6
12	18.3	32.8	48.6	60.2	68.2	72.2	72.5	69.1	61.8	50.8	37.0	21.9	7.5	620.9
13	18.1	31.1	45.8	56.7	64.7	68.5	68.8	65.7	56.0	46.1	31.0	17.5	2.6	572.6
14	15.4	24.2	37.4	46.4	30.5	56.8	64.7	53.4	55.9	46.0	28.6	16.9	2.7	478.9
15	5.5	11.5	16.2	20.0	22.7	24.1	24.2	23.1	20.7	17.0	12.4	7.4	2.2	207.0
16	6.4	9.9	13.9	15.4	23.2	21.6	20.8	25.6	18.2	15.3	12.5	7.5	2.2	192.5
17	5.4	9.8	16.0	19.8	22.5	23.9	24.5	26.5	26.7	20.6	25.3	16.2	4.8	242.0
18	5.4	9.7	13.7	41.5	54.4	50.4	58.1	46.5	37.4	42.9	23.2	16.8	3.9	403.9
19	16.5	33.9	47.9	56.2	63.8	65.2	65.6	47.0	48.3	19.2	22.4	18.1	3.8	507.9
20	19.2	34.5	48.6	56.9	64.6	69.3	69.7	49.5	32.9	27.1	24.3	17.1	6.2	519.9
21	18.8	33.9	48.0	59.6	61.6	65.4	65.7	62.8	56.3	48.8	35.8	21.4	8.0	586.1
22	18.6	33.6	47.6	59.1	67.2	71.3	66.9	64.0	58.8	47.4	31.9	21.1	7.5	595.0
23	18.4	33.4	47.4	58.9	63.2	67.9	68.3	65.3	57.9	47.7	33.8	21.2	7.5	590.9
24	18.5	33.5	47.5	59.0	63.4	67.3	67.7	64.8	58.1	48.0	35.2	21.1	8.0	592.1
25	18.3	33.3	47.2	55.5	63.9	61.5	53.9	50.0	33.9	31.2	21.6	18.8	6.8	495.9
26	17.3	33.3	47.3	58.8	64.0	67.9	68.4	62.4	48.2	41.7	29.6	18.6	6.5	564.0
27	5.5	9.6	15.8	17.0	22.4	23.8	24.0	19.7	17.7	17.0	12.5	7.5	2.7	195.2
28	6.0	11.0	15.7	19.5	22.2	50.4	55.5	61.5	58.0	47.9	35.2	18.8	7.6	409.3
[illegible]	18.0	17.6	40.8	48.2	60.2	64.0	52.8	52.5	56.0	46.3	24.2	18.0	6.5	505.1
30	17.8	32.8	46.8	58.4	62.9	66.9	67.4	62.2	55.2	46.2	34.0	21.4	7.7	579.7

ACIS Hourly Product Dashboard

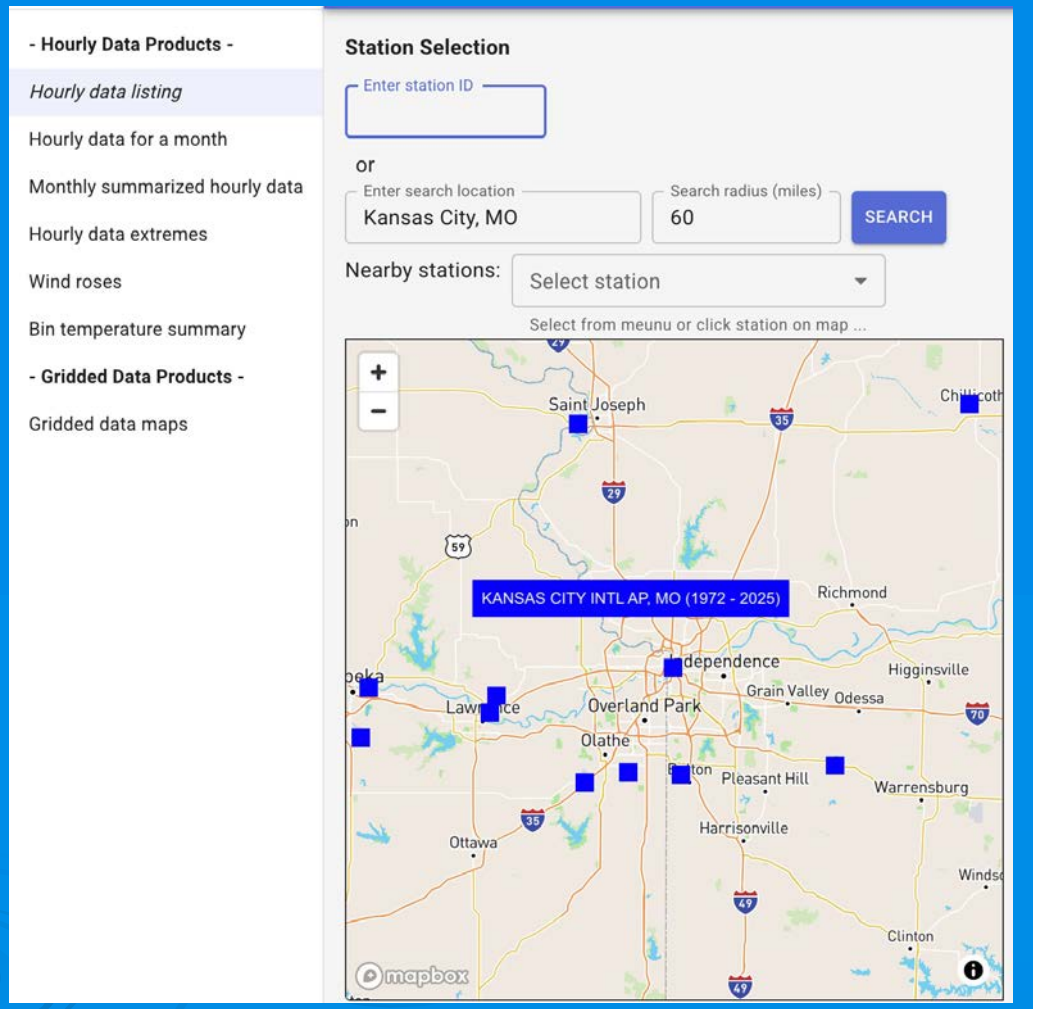


https://scacis-test.rcc-acis.org

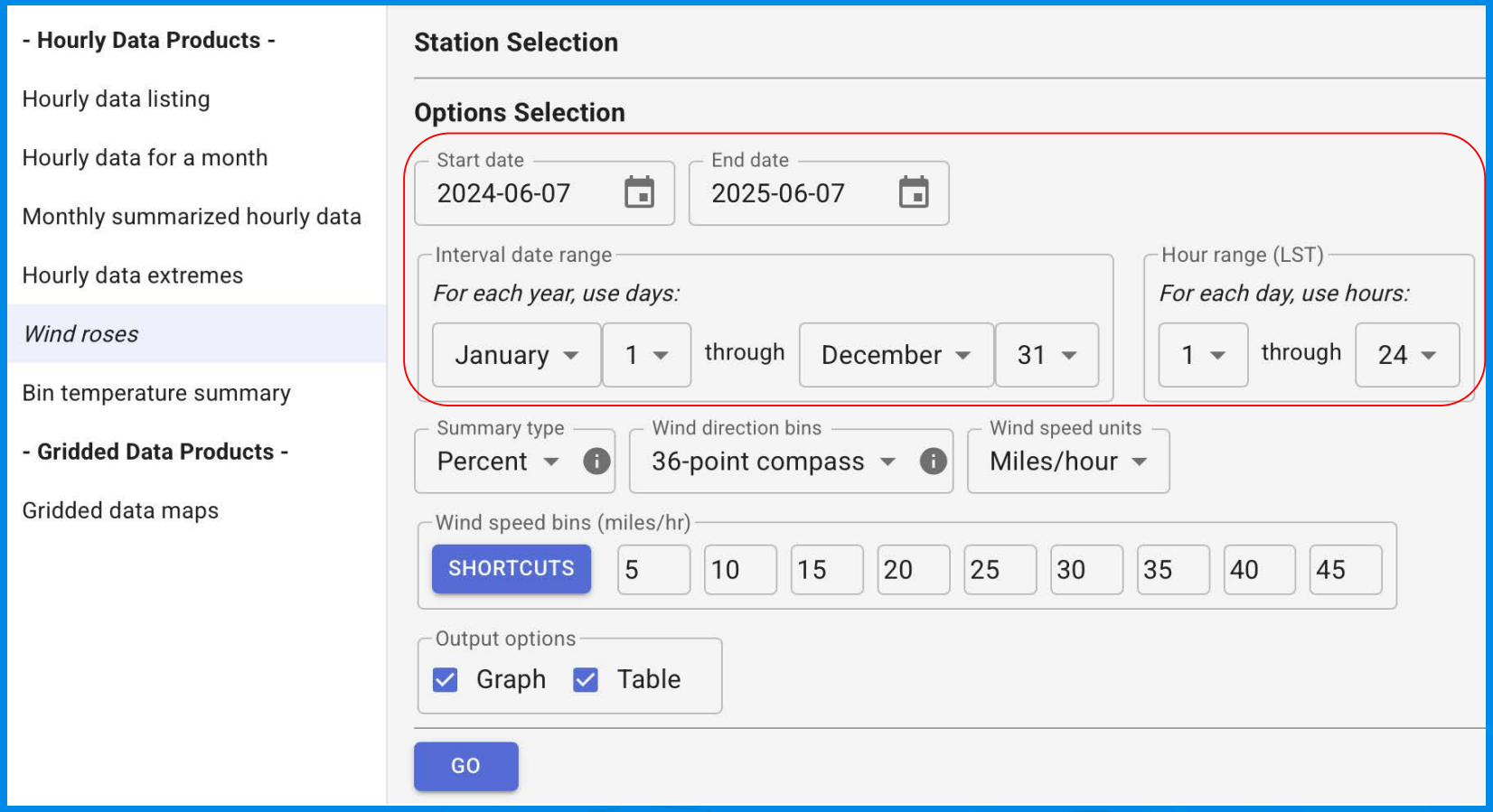
ACIS Hourly Product Station Selection

8800 stations
- 3000 with WBAN id
- 3500 with COOP id (HPD)
- 2000 others

Currently only airport stations available through beta interface



ACIS Hourly Product Option Selection



https://scacis-test.rcc-acis.org

ACIS Web Services

Hourly data access example:

`https://stn2-ebd5.rcc-acis.org/StnData`

```
{"sid":"syr","date":[2024,6,7],"elems":[{"name":"wspd_hr"},{"name"
:"wdir_hr"}]}
```

```
"2024-06-07",
["8.1","0.0","4.7","3.4","0.0","6.9","9.2","10.3","12.8","10.3","9.2",
"16.1","11.4","4.7","9.2","9.2","8.1","6.9","6.9","4.7","5.8","8.1","6.9","8.1"],
["210","M","110","130","M","210","230","240","250","260","270","280","220",
"220","240","260","240","210","250","220","200","240","240","230"]
```

ACIS Web Services

Hourly data access example:

https://*stn2-ebd5*.rcc-acis.org/StnData


```
{"sid":"syr","sDate":[2024,6,7,1],"eDate":[2024,6,8,0],
"elems":[{"name":"wspd_hr"},{"name":"wdir_hr"}]}

["2024-06-07 01:00","8.1","210"],
["2024-06-07 02:00","0.0","M"],
["2024-06-07 03:00","4.7","110"],
["2024-06-07 04:00","3.4","130"],
...
["2024-06-07 20:00","4.7","220"],
["2024-06-07 21:00","5.8","200"],
["2024-06-07 22:00","8.1","240"],
["2024-06-07 23:00","6.9","240"],
["2024-06-08 00:00","8.1","230"]
```

Links

SC-ACIS - https://scacis.rcc-acis.org/

SC-ACIS: Hourly apps (beta) - https://scacis-test.rcc-acis.org

ACIS documentation - https://www.rcc-acis.org

Query Builder – https://builder.rcc-acis.org