Molloy University

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2022

Daily Meteorological Report

CERCOM, Molloy University

John Tanacredi Ph.D.

Kyle F. Maurelli

Center for Environmental Research and Coastal Oceans Monitoring

(CERCOM)

Molloy University

Daily Meteorological Report

All data is reported from CERCOM 365 days a year and submitted to NOAA/ NWS

2022

Director; **Dr. John T. Tanacredi**

Scientific Research Technical Assistant; **Mr. Kyle F. Maurelli**

Address:

132 Clyde Street

West Sayville, NY 11796

Meteorological Methodologies and Equipment:

- Davis 6152 Wireless Vantage Pro2 Weather Station

- USGS Tide Gauge

- NOAA Rain (precipitation) Gauge

- Hand held salt water thermometer

- Yard stick

- NOAA anemometer

CERCOM's Research Assistant Mr. Kyle Maurelli is responsible for maintenance of co-op NWS weather station at CERCOM and submission of daily weather data to NOAA-NWS database 365 days per year.

NOAA NWS Weather

Observation Reporting Procedure:

Weather observations must be reported daily.

Please follow the following procedures:

1. **Take 36" yard stick, rain gauge stick, thermometer, pH meter and clip board w/ pen out to South Bulkhead Island near weather station.**
   - Measure average wave height
   - Measure time average of wave period (time of peak to peak divided by 4)
   - Assess cloud coverage in octas
   - Estimate visibility:
   - Brown's Creek jetty = 1.0 nm
   - Fire Island due south = 3.8 nm
   - Ocean Beach water tower = 5.2
   - Light house = 7.8 nm
   - Robert Moses causeway = 9.8 to 11 nm
     - Measure rain in metal cylinder using rain gauge stick
     - If precipitation is present measure the pH using pH probe/ meter
2. **Log into Wxcoder NOAA-NWS data submission website:**
   - https://wxcoder.org/login/?next=/observations/
     - Username: sixto
     - Password: CERCOM2017
   - Select "My Observations"
   - Select "Daily Entry Form"
   - Follow prompts
     - Check high and low temperature from report data page on desktop
     - Record wind speed and direction
     - Etc.
   - Review and submit completed form
3. **Go to Explorer browser**
   - Website http://water.weather.gov/ahps2
   - Record USGS Tide Gauge reading in Wxcoder "remarks" section
   - Also in "remarks" box add comments as desired, about other weather/ environmental conditions observed that day.
4. **Desktop Information: Kyle Maurelli kmaurelli@molloy.edu**

Figure 1. Template for physically collected daily MD data:

Meteorological Data

Date	Sky Coverage	Precipitation	Dew	Water Temp. F°	Wave Ht. in.	Wave Period sec.	Visibility octas	USGS Tide Gauge ft.	Initial

Figure 2. Template for precipitation pH values when present:

Date	Precipitation Amount	Precipitation Type	Precipitation pH

WeatherLink 6.0.3 11/07/18 11:19a CERCOM

File Setup Reports Browse Window Help

Browse Records

Date	Time	Temp Out	Hi Temp	Low Temp	Out Hum	Dew Pt.	Wind Speed	Wind Dir	Wind Run	Hi Speed	Hi Dir	Wind Chill	Heat Index	THW Index	THSW Index	Bar	Rain	Rain Rate	Solar Rad.	Solar Energy	Hi Solar Rad.	UV Index	UV Dose	Hi UV	Heat D-D	Cool D-D	In Temp	In Hum	In Dew	In Heat	In EMC	In Air Density	ET
11/06/18	11:00a	54.1	54.1	53.5	0	---	0.0	---	0.00	0.0	---	54.1	49.8	49.8	---	1013.2	0.00	0.00	40	1.72	51	0.0	0.00	0.0	0.227	0.000	70.2	43	46.6	67.7	8.25	.0741	0.0
11/06/18	11:30a	54.6	54.8	54.1	0	---	0.0	---	0.00	0.0	---	54.6	50.1	50.1	---	1012.0	0.00	0.00	29	1.25	44	0.0	0.00	0.0	0.217	0.000	70.1	43	46.6	67.7	8.25	.0740	0.0
11/06/18	12:00p	54.8	54.8	54.5	0	---	0.0	---	0.00	0.0	---	54.8	50.3	50.3	---	1010.5	0.00	0.00	23	0.99	30	0.0	0.00	0.0	0.213	0.000	70.0	44	47.1	67.7	8.35	.0739	0.0
11/06/18	12:30p	55.7	55.7	54.8	0	---	0.0	---	0.00	0.0	---	55.7	51.0	51.0	---	1009.9	0.00	0.00	13	0.56	21	0.0	0.00	0.0	0.194	0.000	70.5	44	47.5	68.4	8.34	.0738	0.0
11/06/18	1:00p	57.5	57.5	55.7	0	---	0.0	---	0.00	0.0	---	57.5	52.3	52.3	---	1009.0	0.00	0.00	13	0.56	19	0.0	0.00	0.0	0.156	0.000	70.5	44	47.5	68.4	8.34	.0737	0.0
11/06/18	1:30p	58.4	58.5	57.5	0	---	0.0	---	0.00	0.0	---	58.4	53.0	53.0	---	1008.2	0.00	0.00	26	1.12	40	0.0	0.00	0.0	0.137	0.000	70.1	44	47.2	67.8	8.35	.0737	0.0
11/06/18	2:00p	58.6	58.7	58.4	0	---	0.0	---	0.00	0.0	---	58.6	53.1	53.1	---	1008.0	0.00	0.00	43	1.85	86	0.0	0.00	0.0	0.133	0.000	70.1	45	47.8	67.9	8.45	.0737	0.0
11/06/18	2:30p	58.7	59.0	58.6	0	---	0.0	---	0.00	0.0	---	58.7	53.2	53.2	---	1008.5	0.00	0.00	23	0.99	46	0.0	0.00	0.0	0.131	0.000	70.0	45	47.7	67.8	8.45	.0738	0.0
11/06/18	3:00p	57.5	59.4	57.3	0	---	0.0	---	0.00	0.0	---	57.5	52.3	52.3	---	1008.7	0.00	0.00	37	1.59	60	0.0	0.00	0.0	0.156	0.000	69.8	46	48.1	67.8	8.65	.0738	0.0
11/06/18	3:30p	57.3	58.1	57.3	0	---	0.0	---	0.00	0.0	---	57.3	52.1	52.1	---	1008.5	0.00	0.00	48	2.06	65	0.0	0.00	0.0	0.160	0.000	69.8	46	48.1	67.8	8.65	.0738	0.0
11/06/18	4:00p	57.0	57.3	57.0	0	---	0.0	---	0.00	0.0	---	57.0	51.9	51.9	---	1009.0	0.00	0.00	10	0.43	25	0.0	0.00	0.0	0.167	0.000	70.0	46	48.3	67.9	8.65	.0738	0.0
11/06/18	4:30p	57.0	57.3	57.0	0	---	0.0	---	0.00	0.0	---	57.0	51.9	51.9	---	1009.5	0.00	0.00	3	0.13	7	0.0	0.00	0.0	0.167	0.000	70.6	45	48.2	68.6	8.45	.0737	0.0
11/06/18	5:00p	55.2	57.1	55.2	0	---	0.0	---	0.00	0.0	---	55.2	50.6	50.6	---	1008.9	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.204	0.000	70.5	45	48.1	68.4	8.45	.0738	0.0
11/06/18	5:30p	55.1	55.2	54.9	0	---	0.0	---	0.00	0.0	---	55.1	50.5	50.5	---	1009.5	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.206	0.000	70.3	45	47.9	68.2	8.45	.0738	0.0
11/06/18	6:00p	54.9	55.1	54.8	0	---	0.0	---	0.00	0.0	---	54.9	50.3	50.3	---	1009.6	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.210	0.000	70.0	45	47.7	67.8	8.45	.0738	0.0
11/06/18	6:30p	55.3	55.3	54.8	0	---	0.0	---	0.00	0.0	---	55.3	50.6	50.6	---	1009.1	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.202	0.000	69.8	45	47.5	67.7	8.45	.0738	0.0
11/06/18	7:00p	55.5	55.5	55.2	0	---	0.0	---	0.00	0.0	---	55.5	50.8	50.8	---	1009.0	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.198	0.000	69.6	45	47.3	67.5	8.46	.0739	0.0
11/06/18	7:30p	55.4	55.5	55.2	0	---	0.0	---	0.00	0.0	---	55.4	50.7	50.7	---	1009.3	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.200	0.000	69.6	45	47.3	67.5	8.46	.0739	0.0
11/06/18	8:00p	56.2	56.2	55.4	0	---	0.0	---	0.00	0.0	---	56.2	51.3	51.3	---	1009.3	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.183	0.000	69.6	46	47.7	67.5	8.65	.0739	0.0
11/06/18	8:30p	56.4	56.6	56.1	0	---	0.0	---	0.00	0.0	---	56.4	51.5	51.5	---	1009.6	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.179	0.000	69.4	46	47.7	67.5	8.65	.0738	0.0
11/06/18	9:00p	56.3	56.6	56.3	0	---	0.0	---	0.00	0.0	---	56.3	51.4	51.4	---	1009.6	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.181	0.000	70.3	46	48.3	68.3	8.64	.0738	0.0
11/06/18	9:30p	56.3	56.4	56.1	0	---	0.0	---	0.00	0.0	---	56.3	51.4	51.4	---	1009.5	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.181	0.000	70.1	46	48.4	68.0	8.65	.0738	0.0
11/06/18	10:00p	56.5	56.5	56.3	0	---	0.0	---	0.00	0.0	---	56.5	51.6	51.6	---	1009.9	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.177	0.000	70.0	46	48.3	67.9	8.65	.0738	0.0
11/06/18	10:30p	56.4	56.5	56.3	0	---	0.0	---	0.00	0.0	---	56.4	51.5	51.5	---	1010.0	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.179	0.000	69.8	46	48.1	67.8	8.65	.0739	0.0
11/06/18	11:00p	56.1	56.5	56.0	0	---	0.0	---	0.00	0.0	---	56.1	51.3	51.3	---	1010.0	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.185	0.000	69.6	47	48.5	67.7	8.76	.0739	0.0
11/06/18	11:30p	56.2	56.4	56.1	0	---	0.0	---	0.00	0.0	---	56.2	51.3	51.3	---	1010.2	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.183	0.000	69.4	47	48.4	67.6	8.76	.0739	0.0
11/07/18	12:00a	55.8	56.2	55.7	0	---	0.0	---	0.00	0.0	---	55.8	51.0	51.0	---	1010.3	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.192	0.000	70.1	46	48.3	68.0	8.65	.0738	0.0
11/07/18	12:30a	55.7	55.9	55.5	0	---	0.0	---	0.00	0.0	---	55.7	51.0	51.0	---	1010.5	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.194	0.000	70.1	47	48.9	68.1	8.75	.0738	0.0
11/07/18	1:00a	55.3	55.7	55.3	0	---	0.0	---	0.00	0.0	---	55.3	50.6	50.6	---	1010.6	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.202	0.000	70.0	47	48.8	67.9	8.75	.0739	0.0
11/07/18	1:30a	55.0	55.4	55.0	0	---	0.0	---	0.00	0.0	---	55.0	50.4	50.4	---	1010.8	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.208	0.000	70.0	46	48.3	67.9	8.65	.0739	0.0
11/07/18	2:00a	54.9	55.1	55.0	0	---	0.0	---	0.00	0.0	---	54.9	50.3	50.3	---	1011.1	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.210	0.000	69.6	46	47.9	67.6	8.65	.0740	0.0
11/07/18	2:30a	54.2	54.9	54.2	0	---	0.0	---	0.00	0.0	---	54.2	49.8	49.8	---	1011.2	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.225	0.000	69.4	46	47.7	67.5	8.65	.0740	0.0
11/07/18	3:00a	54.0	54.3	54.0	0	---	0.0	---	0.00	0.0	---	54.0	49.7	49.7	---	1011.1	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.229	0.000	70.1	46	48.4	68.0	8.65	.0739	0.0
11/07/18	3:30a	53.8	54.2	53.8	0	---	0.0	---	0.00	0.0	---	53.8	49.6	49.6	---	1011.5	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.233	0.000	70.0	46	48.3	67.9	8.65	.0739	0.0
11/07/18	4:00a	52.5	53.8	52.5	0	---	0.0	---	0.00	0.0	---	52.5	48.7	48.7	---	1012.1	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.260	0.000	70.0	46	48.3	67.9	8.65	.0740	0.0
11/07/18	4:30a	53.2	53.2	52.4	0	---	0.0	---	0.00	0.0	---	53.2	49.1	49.1	---	1012.6	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.246	0.000	69.6	45	47.3	67.5	8.46	.0741	0.0
11/07/18	5:00a	52.3	53.2	52.3	0	---	0.0	---	0.00	0.0	---	52.3	48.5	48.5	---	1013.0	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.265	0.000	69.6	45	47.3	67.5	8.46	.0741	0.0
11/07/18	5:30a	50.9	52.2	50.9	0	---	0.0	---	0.00	0.0	---	50.9	47.5	47.5	---	1013.2	0.00	0.00	0	0.00	0	0.0	0.00	0.0	0.294	0.000	70.1	45	47.8	67.9	8.45	.0741	0.0
11/07/18	6:00a	50.8	50.9	50.7	0	---	0.0	---	0.00	0.0	---	50.8	47.5	47.5	---	1013.7	0.00	0.00	0	0.00	5	0.0	0.00	0.0	0.296	0.000	70.0	45	47.7	67.8	8.45	.0741	0.0
11/07/18	6:30a	53.3	53.3	50.6	0	---	0.0	---	0.00	0.0	---	53.3	49.2	49.2	---	1014.9	0.00	0.00	23	0.99	47	0.0	0.00	0.0	0.244	0.000	69.8	45	47.3	67.7	8.35	.0743	0.0
11/07/18	7:00a	54.1	54.1	53.3	0	---	0.0	---	0.00	0.0	---	54.1	49.8	49.8	---	1015.2	0.00	0.00	88	3.78	132	0.0	0.00	0.6	0.227	0.000	69.8	44	46.9	67.7	8.23	.0742	0.0
11/07/18	7:30a	54.6	54.6	54.1	0	---	0.0	---	0.00	0.0	---	54.6	50.0	50.0	---	1015.7	0.00	0.00	180	7.74	221	0.2	0.04	1.0	0.217	0.000	71.3	43	46.9	69.3	8.02	.0742	0.0
11/07/18	8:00a	55.3	55.3	54.6	0	---	0.0	---	0.00	0.0	---	55.3	50.6	50.6	---	1016.0	0.00	0.00	266	11.44	306	0.8	0.17	1.4	0.202	0.000	71.9	42	47.0	70.1	8.01	.0741	0.0
11/07/18	8:30a	56.0	56.1	55.3	0	---	0.0	---	0.00	0.0	---	56.0	51.2	51.2	---	1016.0	0.00	0.00	344	14.79	381	1.2	0.26	1.7	0.188	0.000	72.2	41	47.2	70.5	7.86	.0740	0.0
11/07/18	9:00a	56.0	56.0	55.9	0	---	0.0	---	0.00	0.0	---	56.0	51.2	51.2	---	1016.0	0.00	0.00	415	17.85	441	1.6	0.34	2.1	0.188	0.000	72.4	40	46.7	70.7	7.70	.0740	0.0
11/07/18	9:30a	56.0	56.0	55.8	0	---	0.0	---	0.00	0.0	---	56.0	51.2	51.2	---	1016.0	0.00	0.00	470	20.21	494	1.9	0.41	1.7	0.188	0.000	72.4	40	46.7	70.7	7.70	.0740	0.0
11/07/18	10:00a	55.8	56.0	55.8	0	---	0.0	---	0.00	0.0	---	55.8	51.0	51.0	---	1016.0	0.00	0.00	517	22.23	534	2.2	0.47	2.1	0.192	0.000	72.0	40	46.7	70.7	7.71	.0740	0.0
11/07/18	10:30a	55.9	55.9	55.7	0	---	0.0	---	0.00	0.0	---	55.9	51.1	51.1	---	1015.6	0.00	0.00	548	23.57	559	2.2	0.47	2.3	0.190	0.000	72.0	40	46.5	70.4	7.71	.0740	0.0
11/07/18	**11:00a**	**55.9**	**56.0**	**55.8**	**0**	**---**	**0.0**	**---**	**0.00**	**0.0**	**---**	**55.9**	**51.1**	**51.1**	**---**	**1015.6**	**0.00**	**0.00**	**548**	**23.57**	**559**	**2.2**	**0.47**	**2.3**	**0.190**	**0.000**	**72.0**	**40**	**46.3**	**70.1**	**7.71**	**.0740**	**0.0**

Molloy CERCOM

Date and time of observation

Date	2018-11-07
Time	11 AM ▾ 00 ▾
Type of observation	daily (24 hr values/totals) ▾
Correction?	☐

Air Temperature

▶ Max temperature	59	x °F
▶ Min temperature	51	x °F
▶ At observation	56	x °F

Precipitation

▶ Precipitation	0.17	x.xx in
▶ Multi-day Accumulation	1	days
▶ Precipitation type	-Select- ▾	
▶ Snowfall		x.x in
▶ Snow depth		x in

Precipitation Time of Occurrence

Choose   ○ Observed   ○ Estimated

Date	AM	PM
11/5/2018	12 1 2 3 4 5 6 7 8 9 10 11	12 1 2 3 4 5 6 7 8 9 10 11
11/7/2018	12 1 2 3 4 5 6 7 8 9 10 11	12 1 2 3 4 5 6 7 8 9 10 11

clear all

River Data

▶ Ice cover		x %
▶ Ice thickness		x in

Dew & Frost Data

▶ Surface dew intensity	moderate ▾	
▶ Surface frost	none ▾	

Monthly Data

▶ Monthly precipitation		x.xx in

Miscellaneous

▶ Relative humidity		x %

Weather

▶ Present weather	01 Clear sky (few or no clouds) ▾

Position

▶ Longitude		d m s °
▶ Latitude		d m s °

Meteorological Data

▶ At observation wind speed	12	x kts
▶ At observation wind direction	225	xxx °
▶ Pressure	1015.0	xxx.x mb
▶ Sky cover	0	octas
▶ Visibility	11 but less than 22 nm ▾	
▶ Present weather		

Oceanographic Data

▶ Water temperature	58	xx °F
▶ Period of waves	2.45	sec
▶ Wave height	1.1	x ft

Remarks

USGS: 2.07ft

Only the first 200 characters will be transmitted to NWS. More info.

Remarks are part of the weather observation.
If you need to send a non-weather related message, contact your local NWS office.

Submit →

You will need to **Confirm** on the next page.

https://wxcoder.org/observations/confirm/

WxCoder 🏠 Home ☑ My Observations Confirm observation

👁 Site Status 📄 Site Map ⓘ Contact NWS ❓ Help ⏻ Sign Out

Confirm observation for Molloy CERCOM, NY (30-2151-04, DSCN6)

Carefully review your observation. If everything looks good, click the **Confirm** button below. Otherwise, click **Make corrections** to go back and make changes. If not confirmed below, this observation will not be saved.

Observation time	November 07, 2018 at 11:00AM
Observation type	daily (24 hr values/totals)
Max temperature	59 degrees F
Min temperature	51 degrees F
At observation	56 degrees F
Precipitation	0.17 inch
Multi-day Accumulation	No
Precipitation type	Rain
Snowfall	
Snow depth	
Precipitation Time of Occurrence (previous day)	Missing
Precipitation Time of Occurrence	Missing
Ice cover	
Ice thickness	
Surface dew intensity	moderate
Surface frost	none
Monthly precipitation	
Relative humidity	
At observation wind speed	12 knots
At observation wind direction	225 degrees
Pressure	1015.00 millibars
Water temperature	58 degrees
Sky cover	0 octas
Present weather	01
Period of waves	2.4000 seconds
Longitude	
Visibility	11 but less than 27 nm
Present weather	
Latitude	
Wave height	1.1000 feet

Remark

USGS: 2.07ft

✎ Make corrections   Confirm ➜

In cooperation with the National Weather Service, Regional Climate Centers, and National Climatic Data Center

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Important Note: Book-marking page saves current search criteria

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Atlantic Coast At West Sayville (SAYN6)

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Flood Stage: 3 Feet   Latest Stage: 2.07

Current Warnings/Statements/Advisories: None currently.

Vertical Datum references a tidal datum (MLLW). For more information click on USGS link below.

Complete information about the Atlantic Coast at West Sayville available from NWS Upton, NY   XML   RSS

ATLANTIC COAST AT WEST SAYVILLE

Latest observed value: 2.07 ft at 10:36 AM EST 7-Nov-2018. **Flood Stage is 3 ft**

SAYN6 (plotting HMIRG) "Gage 0" Datum: n/a   Observations courtesy of US Geological Survey