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Daily Meteorological Report

CERCOM, Molloy University

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Center for Environmental Research and Coastal Oceans Monitoring

(CERCOM)

Molloy College

Daily Meteorological Report

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

2019

Director; Dr. John T. Tanacredi

Scientific Research Technical Assistant; Mr. Kyle F. Maurelli

Administrative Coordinator; Ms. Regina Gorney

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 <u>http://water.weather.gov/ahps2</u>
 - 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 <u>kmaurelli@molloy.edu</u>

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

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5:0 5:0 5:3 0 0 0.0 0.00 0.0 5:0 5:1 2:1 105:0 0.0 0.0 0.0 26 11.44 306 0.2 0.2 0.4 0.000 7:2 41 47.5 70:5 7:6 70:4 7:4 0.5 0.54 5:0 5:0 5:0 5:0 5:0 5:0 5:0 5:0 5:0 5:0	56.0 56.0 55.3 0 0.0 0.00 0.0 56.0 51.2 51.2 1015.0 0.00 0.00 266 11.44 306 0.2 0.2 0.4 0.000 72.2 41 47.2 70.5 77.6 70.1 770 0.740 56.0 55.0 56.1 55.9 0 0.0 0.0 0.0 56.0 51.2 51.2 1015.9 0.00 0.00 34 17.3 91 0.740 56.0 55.9 0 0.0 0.0 56.0 51.2 51.2 1015.9 0.00 0.00 34 17.3 0.0 0.10 128 0.000 72.2 41 47.2 77.6 70.1 770 0.740 55.0 55.0 55.0 55.9 0 0.0 0.0 56.0 51.2 51.2 1015.9 0.00 0.00 34 17.1 50 0.188 0.000 72.2 41 47.2 77.0 7.70 0.740 55.0 55.8 56.0 55.9 0 0.0 0.0 56.0 51.2 51.2 1015.0 0.00 0.00 470 17.8 441 1.2 0.56 1.4 0.188 0.000 72.4 40 45.7 70.7 7.70 0.740 55.8 56.0 55.8 0 0.0 0.0 0.0 55.9 51.1 51.1 1015.6 0.00 0.00 470 22.2 44 1.5 0.18 0.000 72.4 40 45.7 70.7 7.70 0.740 55.9 55.8 56.0 55.8 0 0.0 0.0 0.0 55.9 51.1 51.1 1015.6 0.00 0.00 470 22.2 44 1.5 0.19 0.000 72.4 40 45.7 70.7 770 0.740 55.9 55.9 55.0 55.8 56.0 55.8 0 0.0 0.0 0.0 55.9 51.1 51.1 1015.6 0.00 0.00 470 22.2 23 41 1.7 0.190 0.000 72.4 40 45.7 70.7 770 0.740 55.9 55.9 55.0 55.8 56.0 55.8 0 0.0 0.0 0.0 0.0 55.9 51.1 51.1 1015.6 0.00 0.00 470 22.2 24 1.9 0.500 72.2 40 45.7 70.7 770 0.740 55.9 55.9 55.0 55.8 56.0 55.8 0 0.0 0.0 55.9 51.1 51.1 1015.6 0.00 0.00 470 22.2 34 1.5 0.190 0.000 72.2 40 45.5 70.7 770 0.740 55.9 55.9 55.9 55.8 56.0 55.8 0 0.0 0.0 0.0 55.9 51.1 51.1 1015.6 0.00 0.00 55.8 55.9 55.9 55.9 55.8 55.9 55.9 55.9		55.3	55.3	54.6	0		- 0.0		00 0.0		55.3		50.6							0.00			3	47.0		8.02	.0741	0.0
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5.0 5.0 5.0 5.0 0 0.0 0.00 0.0 55.0 51.0 115.0 0.00 0.0 470 1.7 0.2 44 1.2 0.26 0.000 72.4 40 45.7 70.7 7.70 7.40 45 55.8 55.0 55.9 0 0.0 0.00 0.0 55.8 51.0 51.0 1055.0 0.00 0.0 77 2.2 23 54 1.5 0.129 0.000 72.4 40 45.7 70.7 7.70 7.40 55.9 55.9 55.9 55.7 0 0.0 0.00 0.0 55.9 51.1 51.1 1055.6 0.00 0.00 57 2.2 35 4 1.9 0.129 0.000 72.4 40 45.5 70.4 7.70 7.70 55.9 55.9 55.9 55.0 0 0.0 0.00 0.0 55.9 51.1 51.1 1055.6 0.00 0.00 57 2.2 35 4 1.9 0.129 0.000 72.2 40 45.5 70.4 771 771 770 55.9 55.9 55.0 55.0 0 0.0 0.00 0.0 55.9 51.1 51.1 1055.6 0.00 0.00 57.2 52 22 0.49 0.000 72.2 40 45.5 70.4 771 770 770	55.0 55.0 55.0 55.8 0 0.0 0.00 0.0 55.8 51.0 51.0 115.0 0.00 0.0 473 17.9 44 1.2 0.25 1.4 0.18 0.000 72.4 40 45.7 70.7 7.70 0.740 55.8 55.0 55.8 0 0.0 55.8 51.0 51.0 115.6 0.00 0.00 473 22.3 54 1.9 0.41 7.1 0.192 0.000 72.4 40 45.7 7.70 0.740 55.9 55.9 55.9 55.9 55.9 55.9 55.9 55.		56.0	56.1	55.9	•			; 	00		56.0	51.2	51.2			344	14.75		0.8	0.17			5	47.2	70.5	7.86	.0740	ō
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		11/07/18 10:30a	55.9	55.9	55.7	, c			5 d			55.9	21.12	51.1		- v				0 1	14	3 e 1 t			46.5	70.4	11.1	0740	
		11/07/18 11:00a	55.9	56.0	55.8	•	-	0.0		00 0.0		55.9	51.1	51.1	1	1015.6				2.2	0.47	0.0		0 40	46.3	70.1	7.71	0740	

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	ms Enter			🗢 Ste Status 📲 Ste Maj	p O Contact NWS O Help
	Molloy CERCOM				Station Info
					Supervising WFO New York, NY Site ID (NWSU) DSCN5 Site Number (CDOP) S0-2161-04 Time of observation 08.00 Latit op
	Date and time of observation				DSCN5 Site Number (CDOP)
	Date	2016 11 07			30-2151-04 Time of observation
	Time	11 AM • 00			08.00 LabLon 40.7212635, 73.0919527
	Type of observation	daily (21 hr values/totals)		•	40.7212636, 73.0919527 Elevation 3.1t
		8			
	- Controbortz				
	Air Temperature				
	Max temperature	59	x.e.		
	Min temperature	51	x177		
	At observation	56	x P		
	P ALODSETTION	56			
	Procipitation				
	Precipitation	0.17	x.xx(in		
			days		
	Multi-day Accumulation	•			
	Precipitation type	-Select *			
	Snowfall		X.X.IN		
	Snow depth		x m		
	Precipitation Time of Occurrence	Choose @ Observ			
		Date AM 11/5/2018 12 1 2 3 4 5 6 7 8 9 10	PM 11 12 1 2 3 4 5 6 7 8 9 10 11		
		11/5/2018 12 1 2 3 4 5 6 7 8 9 10 11/7/2018 12 1 2 3 4 5 6 7 8 9 10			
		clear	41		
	River Data				
	Ice cover		x%		
	Ice thickness		x in		
	Dew & Frost Data				
	Surface dew intensity	moderate *			
	Surface frost	none *			
	Monthly Data				
	Monthly precipitation		s.xx in		
	Miscellaneous				
	Relative humidity		x %		
	Weather				
	Present weather	01 Clear sky (few or no clouds) *			
	Position				
	Longitude		dms*		
	Eastude		d m s *		
	Latitude		dm x *		
	Lastude Meteorological Data		dmx*		
		12	dms*		
	Meteorological Data				
	Meteorological Deta At observation wind speed > At observation wind direction	225	xits		
	Meteorological Dels	225 1015.0	x Ms 500 * 300 X PD		
	Mateorological Data At observation wind speed At observation wind direction Prossure Brossure Bity cover	225 1015.0 0	× Hs 300 *		
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oder H Hons						Coste Status	в эле мар	Contact NWS	O nep	Usign
		Confirm obser	vation for Molloy	CERCOM, NY (30-2	2151-04, DSCN6)					
		Carefully review your obse observation will not be saw		k the Confirm button below. Otherwise, cit	ck Make corrections to go back and make cha	inges. If not confirmed below.	Dis			
			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 T	me of Occurrence (previous day)	Missing						
			Precipitation Time of Occurrence	Missing						
			lce 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 milibars						
			Water temperature	58 degrees						
			Sky cover	0 octas						
			Present weather	01						
			Period of waves	2.4000 seconds						
			Longitude							
				11 but less than 27 nm						
			Present weather							
			Latitude							
			Wave height	1,1000 feet						
		Remark								
		USGS: 2.07tt								
				1	onfirm →					

In cooperation with the National Weather Service, Regional Climate Centers, and National Climatic Data Center incloar-www.doi.org.201002_001



