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Great South Bay, Long Island, New York Summer Phytoplankton Identification & Monitoring Program

CERCOM, Molloy University

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Center for Environmental Research and Coastal Oceans Monitoring

(CERCOM)

Molloy College

Great South Bay, Long Island, New York

Summer Phytoplankton Identification & Monitoring Program

Annual Inventory Report

2021

FINAL REPORT

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

2021

Student Intern

Participation:

Caroline Kane

Earth & Environmental Studies

Molloy College

Phytoplankton Monitoring Network Harmful Algae Bloom

Screening Data Entry

Navigate to

<https://coastalscience.noaa.gov/research/stressor-impacts-mitigation/pmndata/submit-data-regions/> (using Google Chrome, it can be found on the bookmarks bar), and select [Atlantic Region](#) 1.

Our PMN ID is [NY138](#) on the dropdown menu.

Phytoplankton Collection Methodologies:

80 micron Plankton Tow Net with sample bottle attachment

Phytoplankton Protocol:

1. Gather Samples
2. Make one slide per sample
3. View slides using microscope connected with computer
4. Record findings using “ Row # “ and “ Colum letter “
5. Record using “ Tally’s “ per species found within sample
6. Capture anything interesting “ Take Picture “
7. Duplicate pictures taken
8. Make sure measurement of species found is taken
9. Email Jennifer Maucher at Jennifer.maucher@noaa.gov , include pictures, questions and names of the species you “guess” you found.

If requested by NOAA, Jennifer will ask for a water sample from our findings.

2021 Summer Plankton Tows

Total Species Identified: 21

Actinotychus, Asterionella, Biddulphia, Chaetoceros, Coscinodiscus, Dinophysis, Ditylum, Entomoneis, Gonyaulax, Grammatophora, Gyrosigma, Lichmophora, Navicula, Nitzschia, Pleurosigma, Protoperidinium, Rhizosolenia, Skeletonema, Striatella, Thalassionema, Triceratium

Species Identified at Each Site:

Site 1	Site 2	Site 3	Site 4	Site 5
Biddulphia	Biddulphia	Asterionella	Asterionella	Actinotychus
Chaetoceros	Chaetoceros	Biddulphia	Biddulphia	Biddulphia
Coscinodiscus	Coscinodiscus	Chaetoceros	Chaetoceros	Chaetoceros
Ditylum	Dinophysis	Coscinodiscus	Coscinodiscus	Coscinodiscus
Gonyaulax	Entomoneis	Grammatophora	Grammatophora	Grammatophora
Grammatophora	Grammatophora	Gyrosigma	Lichmophora	Lichmophora
Lichmophora	Lichmophora	Lichmophora	Navicula	Navicula
Navicula	Navicula	Navicula	Nitzschia	Nitzschia
Nitzschia	Nitzschia	Nitzschia	Pleurosigma	Skeletonema
Pleurosigma	Rhizosolenia	Skeletonema	Protoperidinium	Striatella
Skeletonema	Skeletonema	Striatella	Skeletonema	Triceratium
Striatella	Striatella		Striatella	
Triceratium			Thalassionema	
			Triceratium	
13 Species Total	12 Species Total	11 Species Total	14 Species Total	11 Species Total

Site #1	Sexton
Site #2	Ocean Beach
Site #3	Ocean Bay Park
Site #4	Sailors Haven
Site #5	Cherry Grove