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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

2018

FINAL REPORT

Director; Dr. John T. Tanacredi

Scientific Research Technical Assistant; Mr. Kyle F. Maurelli

Administrative Coordinator; Ms. Regina Gorney

Address:

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2018

Student Intern

Participation:

Thomas Dolan	Education	Molloy College
Pierce Courtney	Biology	Molloy College
Tierney Hesse	Education	Molloy College
Helen Pham	Nursing	Molloy College
Nicole Contreras	Nursing	Molloy College
Stephanie Mejia	Nursing	Molloy College
Shawn Martin	Earth & Environmental Studies	Molloy College
Brandon Tannenbaum	Environmental Law	Fordham University
Kevin Peteroy	Marine Biology	SUNY Maritime
Caroline Kane	Earth & Environmental Studies	Suffolk Community College
John Corallo	Marine Biology	Suffolk Community College

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.

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.

Figure 1. Sample overview: Totals

Site	Coordinates	Weeks Tested	Species Found
Sexton	N 40.39.247 W 073.11.559	15	24
Ocean Beach	N 40.39.076 W 073.09.317	15	23
Ocean Bay Park	N 40.39.153 W 073.08.473	15	23
Sailor Haven	N 40.39.696 W 073.06.479	15	23
Cherry Grove	N 40.40.241 W 073.04.785	15	23

Figure 1. Annual report on individual species found at each sample site in the Great South Bay 2018:

Sexton	Ocean Beach	Ocean Bay Park	Sailor Haven	Cherry Grove
Coscinodiscus	Coscinodiscus	Coscinodiscus	Coscinodiscus	Coscinodiscus
Navicula	Navicula	Navicula	Navicula	Navicula
Biddulphia	Biddulphia	Biddulphia	Biddulphia	Biddulphia
Nitzschia	Nitzschia	Nitzschia	Nitzschia	Nitzschia
Gyrosigma	Gyrosigma	Gyrosigma		Gyrosigma
Triceratium	Triceratium		Triceratium	Triceratium
Striatella	Striatella	Striatella	Striatella	Striatella
Grammatophora	Grammatophora	Grammatophora	Grammatophora	Grammatophora
Cylindrotheca	Cylindrotheca			
Licmophora	Licmophora	Licmophora	Licmophora	Licmophora
Thalassionema	Thalassionema	Thalassionema	Thalassionema	Thalassionema
Bacillaria				
Chaetoceros	Chaetoceros	Chaetoceros	Chaetoceros	Chaetoceros
Actinoptychus				
Entomoneis	Entomoneis	Entomoneis	Entomoneis	Entomoneis
Ditylum	Ditylum	Ditylum	Ditylum	
Skeletonema		Skeletonema	Skeletonema	Skeletonema
Thalassiosira	Thalassiosira	Thalassiosira	Thalassiosira	Thalassiosira
Pseudonitzschia	Pseudonitzschia	Pseudonitzschia	Pseudonitzschia	Pseudonitzschia
	Paralia	Paralia	Paralia	Paralia
	P. lima		P.lima	P. lima
	Protoperidinium	Protoperidinium	Protoperidinium	
		Rhizosolenia	Rhizosolenia	Rhizosolenia
		Scrippsiella		
Clam Veliger				Clam Veliger
Tintinnid	Tintinnid	Tintinnid	Tintinnid	Tintinnid
Crab Zoa	Crab Zoa	Crab Zoa	Crab Zoa	Crab Zoa
Barnacle Larvae	Barnacle Larvae	Barnacle Larvae	Barnacle Larvae	Barnacle Larvae
Copepod	Copepod	Copepod	Copepod	Copepod

Figure 2. Annual report on individual species present in Great South Bay 2018, total:

Total Species Found in 2018 : 29			
Coscinodiscus	Nitzschia	Tintinnid	Clam Veliger
Navicula	☠ Pseudonitzschia	Striatella	Barnacle Larva
Bacillaria	Skeletonema	Ditylum	Rhizosolenia
Gyrosigma	☠ Prorocentrum	Triceratium	Grammatophora
Entomoneis	Licmophora	Paralia	Actinoptychus
Scrippsiella	Biddulphia	Thalassionema	Thalassiosira
Copepod	Cylindrotheca	Chaetoceros	Crab Zoea
☠ Protoperidinium			

