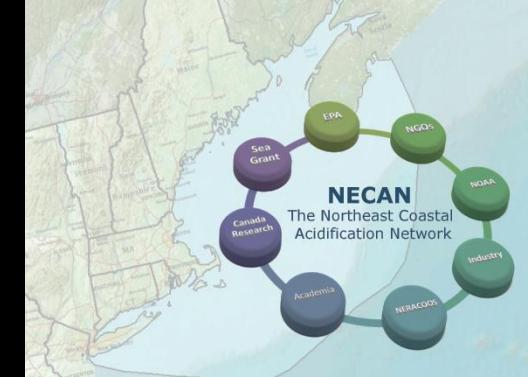


SUPPORTING WATER MONITORING NETWORKS



Coastal Acidification

W H Y S H E L L D A Y ?



Coastal Acidification is *place-specific*

Local observations can lead to local preparedness

Water quality monitoring networks are here !

Greenhouse Gas Emissions



Coastal Processes

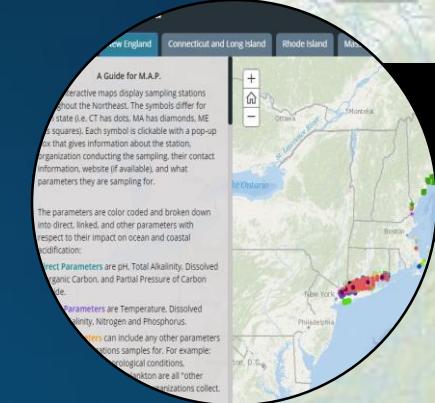
Urban + Agricultural
Run-off



GLOBAL
+
LOCAL

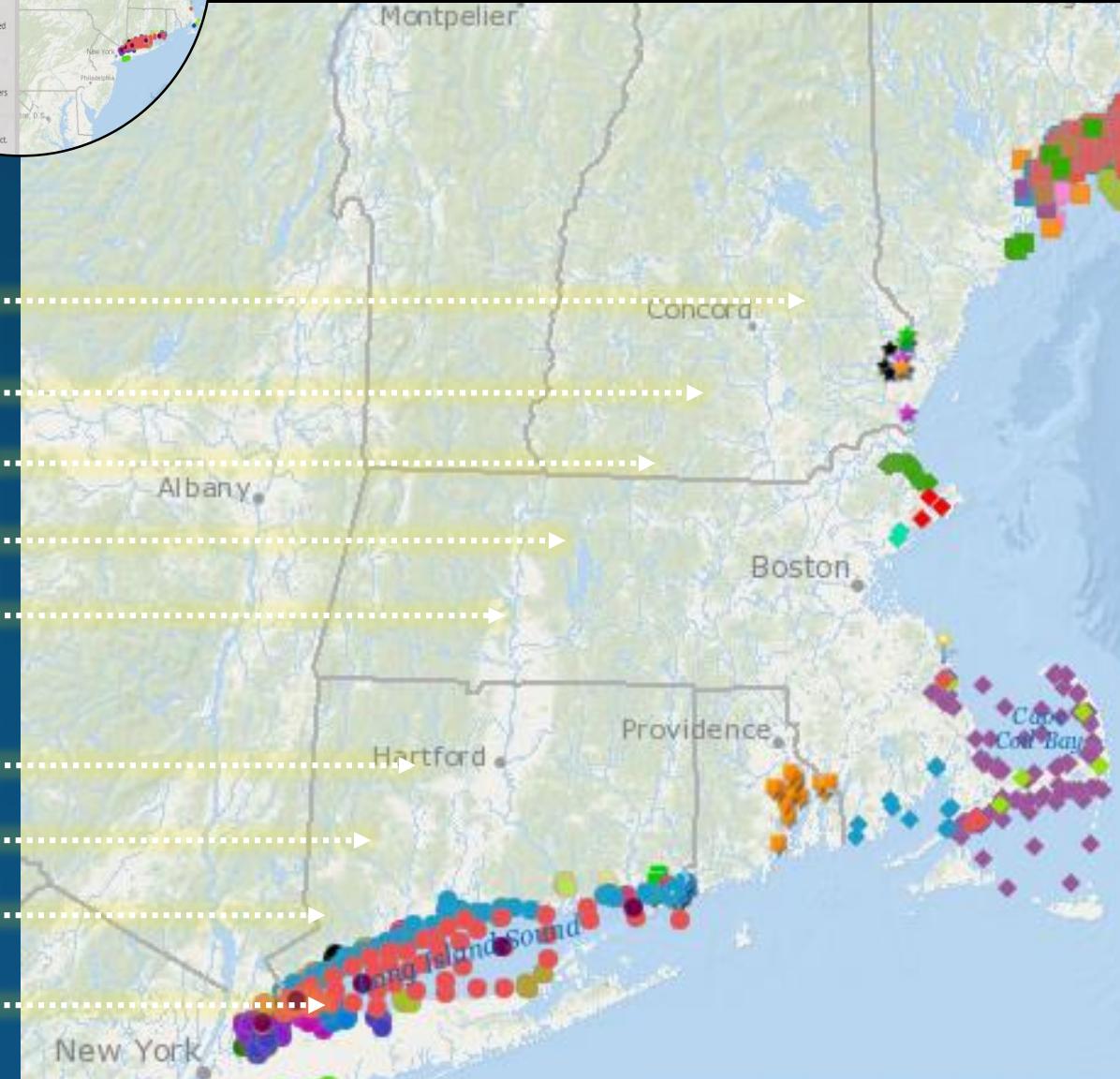
Citizen Science and Research Organizations

- STB
- CUSH
- CFE/STS
- HarborWatch
- IEC
- Derecktor Shipyards
- Ocean science Services
- Bronx River Alliance
- Save the River/ Save the Hills
- Connecticut River Conservancy
- Cornell Cooperative Extension of Suffolk County Marine Program
- Friends of the Bay
- Friends of the Farm River Estuary
- Group for the East End
- New England Science & Sailing Foundation
- Salonga Wetland Advocates Network, Inc
- Setauket Harbor Task Force, Inc.
- Sound Waters
- The Maritime Aquarium of Norwalk
- Town of Darien
- Town of Fairfield –
- Conservation Department
- Town of Stratford – Conservation Department
- Coalition to Save Hempstead Harbor
- Ash Creek Conservation Association
- Center for Coastal Studies- Provincetown
- Wampanoag Tribe of Gay Head (Aquinnah)
- Mass Maritime Academy
- Plum Island Ecosystems LTER
- WH Sea Grant, Barnstable County
- Aquacultural Research Corp
- Falmouth Water Stewards
- Buzzards Bay Coalition
- Town of Mashpee, Shellfish Constable
- Town of Nantucket's Natural Resources Department
- Nantucket Land Council,
- Nantucket Land Bank
- Barnstable Clean Water Coalition
- Pleasant Bay Alliance (Friends of Pleasant Bay)
- Salem Sound Coastwatch
- Seaside Sustainability, Inc.
- Ipswich River Watershed Association
- New England Aquarium- Live Blue Ambassadors
- Neponset River Watershed Association
- Island Creek Oyster
- Cohasset Center for Student Coastal Research
- North and South Rivers Watershed Association
- Heather Deuchesnes
- Mystic River Watershed Association
- Wampanoag Tribe Lab - Vineyard
- Martha's Vineyard Shellfish Group
- FACES (Falmouth Associations Concerned with
- Estuaries and Salt Ponds)
- Massachusetts Rivers Alliance, MassBays Management Committee
- The National Park Service
- Boston Harbor Islands NP
- Parker River National Wildlife Refuge
- The Massachusetts Shellfish Officers Association (MSOA)
- Upper North Shore Region of MassBays
- MassBays National Estuary Program
- Shellfish Constable, Town of Chatham, Water Resource Planner from the MV
- Water Resource Planner from the MV
- Waquoit Bay National Estuarine Research Reserve WBNERR, DCR
- Charles River Watershed Association
- Northeast MA Aquaculture Center (NEMAC)
- NEIWPCC
- Nashua River Watershed Association
- Shaw Institute
- U Maine Machias
- Boothbay Region Land Trust
- Kennebec Estuary Land Trust
- Downeast Institute
- MCOA
- Hurricane Island Center for Science and Leadership
- Schoodic Institute
- Bowdoin College
- Island Institute
- Colby College
- Bates College
- Rockport Harbor Conservation Commission
- Friends of Casco Bay
- Maine DEP
- Maine Maritime Academy
- Belfast Bay Watershed Coalition
- MAINE H2O
- Penobscot Bay Stewards
- NH/ME Docents



UNITED STATES

Northeast Monitoring Stations



Gulf of
Maine

288

371

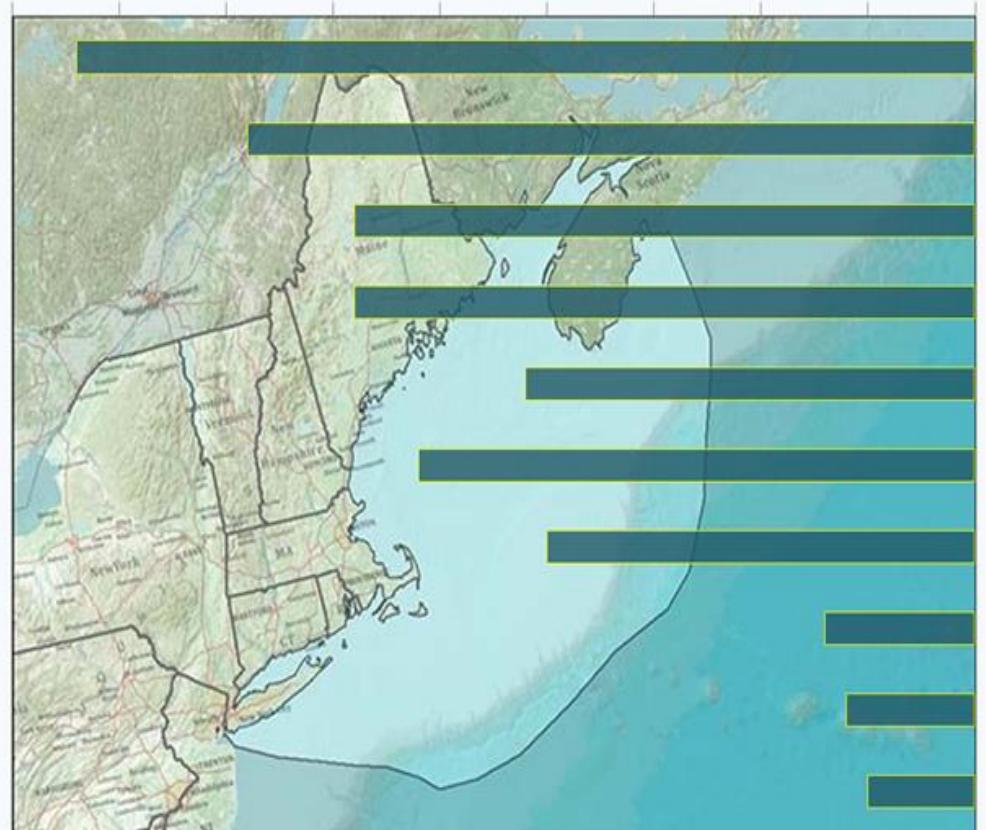
Browns
Bank

Georges
Bank

Individual Community Science Groups

Organizations measuring each parameter

45 40 35 30 25 20 15 10 5 0



Temperature

Salinity

Oxygen Saturation

pH

Chlorophyll-A

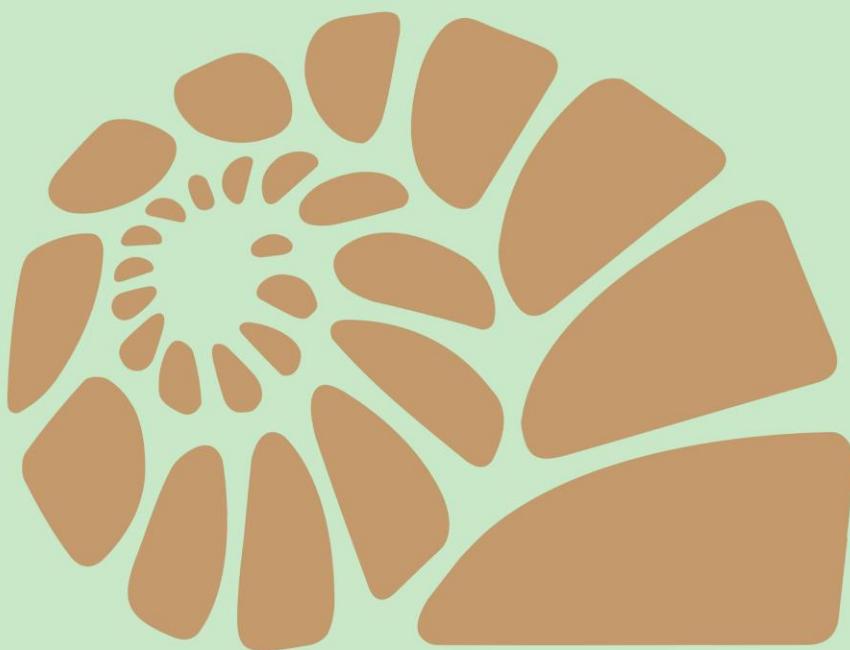
Biological Monitoring

Nitrogen

Total Alkalinity

DIC

pCO₂



SHELL DAY **AUGUST 22** **2019**

**Northeast Ocean and Coastal
Acidification Monitoring Blitz**



Special Thanks to our Partners



NOAA OCEAN ACIDIFICATION PROGRAM



University of
New Hampshire



WOODS HOLE
MIT & MAINE



THE CURTIS & EDITH MUNSON FOUNDATION



DEPARTMENT OF
AGRICULTURE



Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION



THE UNIVERSITY OF
MAINE
Cooperative Extension



THE UNIVERSITY OF
MAINE
Senator George J. Mitchell
Center for Sustainability Solutions