

## **Appendix A**

### Environmental Monitoring Programs in Rhode Island

## Monitoring Programs by Institution

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**INSTITUTION** **Barrington Land Conservation Trust**

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**PROGRAM** Daimondback Terripan Population Study  
**PURPOSE** Establish population information for the Barrington area, and to preserve breeding habitat for the Diamondback Terripan  
**SYSTEM** Fauna  
**INTERVAL** Spring breeding season  
**DATES** 1990 to present  
**DATA\_FORMAT** Digital Spreadsheet  
**QUALITY\_CONTROL**  
**ACCESS** Contact Charlotte Sornborger  
**URL**  
**PARAMETERS\_MEASURED** Diamondback terripan (mark and recapture)  
**LOCATIONS** Barrington  
**NOTES**

**CONTACT**

Charlotte Sornborger  
Barrington Land  
1 Wildacre Lane  
  
Barrington, RI 02806  
Phone (401) 245-8467  
Fax  
c\_sornborger@hotmail.com

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**INSTITUTION** **Brown University**

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**PROGRAM** Barrington & Palmer Rivers Monitoring  
**PURPOSE** Monitor physical parameters on a continuous basis  
**SYSTEM** Water  
**INTERVAL** Every 15 min.  
**DATES** 1996 to present  
**DATA\_FORMAT**  
**QUALITY\_CONTROL** Automated sampling; std calibration  
**ACCESS** Avai. upon request  
**URL**  
**PARAMETERS\_MEASURED** Salinity, depth, temperature Seabird SeaCat 19s  
**LOCATIONS** Barr River: North of Rte 114 bridge Palmer River: South of 114 bridge  
**NOTES** Data still being processed as of spring 2001

**CONTACT**

Dr. Warren Prell  
Brown University  
Depart. Of Geosciences  
POBox 1846  
Providence, RI 02912  
Phone (401) 863-3221  
Fax  
warren\_prell@brown.edu

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**INSTITUTION**      **Committee For the Great Salt Pond**

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**PROGRAM**    Summer on the Water Program  
**PURPOSE**    Primarily education, with some identification of "hot spots"

**SYSTEM**      Water, Fauna  
**INTERVAL**    3 times weekly during summer months  
**DATES**        1991 to present

**DATA\_FORMAT**      Analog Report

**QUALITY\_CONTROL**

**ACCESS**    Contact Henry duPont

**URL**    <http://blockisland.com/saltpond>

**PARAMETERS\_MEASURED**      Water clarity (Secchi), DO (La Motte kit), bird counts (observational), chemical parameters (kits), benthic fauna (observational from lobster trap catches)

**LOCATIONS**    Sites within the Great Salt Pond, Block Island

**NOTES**    Data tends to be sporadic in nature, the parameters monitored tend to vary according to the professional background of the individuals running the program from summer to summer.

**CONTACT**

Henry duPont  
Committee for the Great Salt Pond  
283 Ocean Avenue

New Shoreham, RI 02888  
Phone (401) 466-5061  
Fax

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**INSTITUTION**      **Depart of Nat. Resources Science, URI AES**

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**PROGRAM**    Water-table Activity in Forested Wetlands in S. RI  
**PURPOSE**    Elucidate the influence of water regime on vegetation structure and floristic composition, tree growth, and microrelief in red maple (*Acer rubrum*) swamps and Atlantic white cedar (*C. thyoides*) swamps.

**SYSTEM**      Flora  
**INTERVAL**    Every 3 weeks between mid-April & mid-December  
**DATES**        Apr 1976-Dec 1982

**DATA\_FORMAT**      Analog Data Sheet

**QUALITY\_CONTROL**    N/A

**ACCESS**

**URL**

**PARAMETERS\_MEASURED**      Position of groundwater table or surface water level with respect to ground surface (graduated measuring rod inserted into shallow [1.5 m] wells).

**LOCATIONS**    12 swamps in Washington County; towns included Charlestown, Hopkinton, N. Kingstown, Richmond, & S. Kingstown

**NOTES**

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**CONTACT**

Dr. Frank Golet  
Department of Natural Resources Science, URI  
108 Coastal Institute in Kingston

1 Greenhouse Road  
Kingston, RI 02881  
Phone (401) 874-2916  
Fax (401) 874-4561  
[fgswamps@uri.edu](mailto:fgswamps@uri.edu)

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**INSTITUTION**      **Dept. of Defense, U.S. Navy**

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**PROGRAM**    Superfund  
**PURPOSE**    Hazardous waste site clean-up and remediation  
**SYSTEM**     Land  
**INTERVAL**    quarterly sampling  
**DATES**        on going  
**DATA\_FORMAT**    Analog Report  
**QUALITY\_CONTROL**    SF QA/QC protocols  
**ACCESS**    quarterly reports available to public

**URL**

**PARAMETERS\_MEASURED**      Groundwater (contaminants), landfill gases.

**LOCATIONS**    McAlister Point Landfill, Newport, RI; Davisville -

**NOTES**    Superfund monitoring at McAlister Point Landfill and Davisville Landfill. There is also some superfund activity taking place along sections of the Woonasquatucket River.

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**CONTACT**

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KyMBERLEE Keckler  
US EPA, Region 1  
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Boston, MA 02114  
Phone (617) 918-1385  
Fax  
keckler.kyMBERLEE@epa.gov

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**INSTITUTION**      **EPA-AED**

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**PROGRAM**    Aircraft Remote Sensing for Chlorophyll-a  
**PURPOSE**    Develop indicators for nutrient loading for northeast coastal systems.  
**SYSTEM**     Water, Flora  
**INTERVAL**    Bi-weekly  
**DATES**        2000-2005  
**DATA\_FORMAT**    Digital Database  
**QUALITY\_CONTROL**    yes  
**ACCESS**    data will be accessible to public

**URL**

**PARAMETERS\_MEASURED**      solar radiance, and irradiance, chlorophyll-a, suspended solids, temperature, salinity

**LOCATIONS**    Narragansett Bay and coastal waters

**NOTES**    New AED research program - anticipated start-up: Fall 2001.

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**CONTACT**

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Narragansett, RI 02882  
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Fax (401) 782-3030  
keith.darryl@epa.gov

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**INSTITUTION**      **EPA-AED**

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**PROGRAM**    Amphipod Population Study  
**PURPOSE**    Determine field demographics for the estuarine amphipod  
                  Ampelisca abdita  
**SYSTEM**     Fauna  
**INTERVAL**    Bi-weekly  
**DATES**        1996-2000  
**DATA\_FORMAT**    Analog Report  
**QUALITY\_CONTROL**    Yes  
**ACCESS**    Contact PI (Ann Kuhn-Hines)

**URL**

**PARAMETERS\_MEASURED**    Abundance, length frequency, sex ratio, biomass, and reproductive state.

**LOCATIONS**    Narrow River

**NOTES**    AED research project.

**CONTACT**

Ann Kuhn-Hines  
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27 Tarzwell Drive

Narragansett, RI 02882  
Phone (401) 782-3199  
Fax (401) 782-3030  
kuhn.anne@epa.gov

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**INSTITUTION**      **Jamestown Land Trust**

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**PROGRAM**    Jamestown Bird Survey  
**PURPOSE**    Inventory the avian species that breed on and migrate through  
                  Jamestown, Rhode Island.  
**SYSTEM**     Fauna  
**INTERVAL**    Varies  
**DATES**        ~ 1985  
**DATA\_FORMAT**  
**QUALITY\_CONTROL**  
**ACCESS**    Contact Candy Powell

**URL**

**PARAMETERS\_MEASURED**    Avian species (observation)

**LOCATIONS**    Jamestown

**NOTES**    This entry is incomplete, and may contain errors. It will be updated as direct contact is made with the  
                  program coordinator.

**CONTACT**

Candy Powell  
Jamestown Land Trust

Jamestown, RI 02832  
Phone (401) 423-1492  
Fax

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**INSTITUTION**      **Lab for Terr Remote Sensing / RI Ag. Exp. Station**

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**PROGRAM**    RI Statewide Land Cover Change: 1972-2002; Forest Loss

**PURPOSE**    Quantify land cover changes & impact of disturbance on forest ecosystems & nat rscs. Multiple model validated & employed to reveal sprawl pattns. Produce land cover maps for 1972, 1985, & 2002 frm landsat data. Identify change patterns and maps of land use and land cover.

**SYSTEM**      Land

**INTERVAL**    10-15 yrs; 30 m spatial resolution;

**DATES**        2000-2003

**DATA\_FORMAT**    Digital GIS Coverage

**QUALITY\_CONTROL**    Groundtruthing & thematic accuracy assessment

**ACCESS**

**URL**    www.ltrs.uri.edu

**PARAMETERS\_MEASURED**    Land cover types following USGS clsification system; visible light to thermal portion of electromag spectrum

**LOCATIONS**    Statewide

**NOTES**

**CONTACT**

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yqwang@uri.edu

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**INSTITUTION**      **Massachusetts Audubon Society**

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**PROGRAM**    Smithfield HS/Blackstone Rv Watershed Education Project

**PURPOSE**    To conduct biological tests on the Blackstone and Woonasquatucket Rivers.

**SYSTEM**      Water

**INTERVAL**    At least 3 times during the academic year

**DATES**        1992 to present

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**

**ACCESS**    Contact Donna Williams

**URL**

**PARAMETERS\_MEASURED**    Water Temperature (thermometer), DO (Hach Kit) pH (Hach Kits), BOD (Hach kit), Turbidity, Nitrogen Phosphorus

**LOCATIONS**    Blackstone and Woonasquatucket Rivers

**NOTES**    This Mass Audubon program coordinates monitoring conducted by high school students at Smithfield High School (contact Holly Martin, phone 401-949-2050) and Tolman High School in Pawtucket (contact Julie Goulet, phone 401-729-6400).

**CONTACT**

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Fax  
dwilliams@massaudubon.org

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**INSTITUTION** **Moses Brown and Wheeler Schools**

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**PROGRAM** Moshassuck River Monitors

**PURPOSE** Educational primarily

**SYSTEM** Water

**INTERVAL** Four times a year

**DATES** 1997 to present

**DATA\_FORMAT**

**QUALITY\_CONTROL**

**ACCESS** Contact Rob Brown

**URL**

**PARAMETERS\_MEASURED** Temperature, pH, Dissolved Oxygen, BOD, Nitrogen, Phosphorus, and Flow

**LOCATIONS** Mosshasuck River

**NOTES**

**CONTACT**

Rob Brown

Wheeler School

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RBrownCHOP@aol.com

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**INSTITUTION** **Multi Agency/Institution Effort Coord. by NBEP**

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**PROGRAM** Volunteer DO Night Survey

**PURPOSE** To measure (Midnight to 7:00am) decreases in DO across upper half of Narr. Bay during neap tides

**SYSTEM** Water

**INTERVAL** 2 - 3 X / Summer

**DATES** 1999 to 2003

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** YSI recommended QA/QC data is reviewed by 3 people

**ACCESS** Not currently available

**URL**

**PARAMETERS\_MEASURED** DO, depth, temperature, salinity by meter and location by GPS

**LOCATIONS** Sites sampled 4 times per month from June to August - 1999 to 2003 across upper half of Narragansett Bay

**NOTES** Data to be available as Excell based vertical profile data in Winter 2004. Funds nt available to do GIS mapping of all surveys.

**CONTACT**

Christopher Deacutis

RIDEM

RI Narr. Bay Estuary Program

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Fax (401) 222-3564

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**INSTITUTION** **Narragansett Bay Commission**

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**PROGRAM** ADCP Monitoring  
**PURPOSE** To assess the water quality of the Providence and Seekonk Rivers through metals and nutrient sampling and analysis  
**SYSTEM** Water  
**INTERVAL** Four seasonal surveys, one day each season  
**DATES** 2001-2002  
**DATA\_FORMAT** Digital Database  
**QUALITY\_CONTROL** QA/QC Protocol and Standard Methods  
**ACCESS** Available upon request  
**URL** <http://www.narrabay.com/>

**PARAMETERS\_MEASURED** Depth, Tide, Salinity, Chlorophyll, Silicon Oxide, Total Suspended Solids, Dissolved Organic Carbon, Particulate Carbon, Ammonia, Nitrate, Nitrite, Total Nitrogen, Particulate Nitrogen, Phosphate, Total Recoverable and Dissolved Cadmium, Copper, Lead, Nickel and Silver.

**LOCATIONS** Five transects running east-west across the Providence River and eight transects across the Seekonk River, with one to four sample locations along each transect depending upon the width of the river.

**NOTES** Ultra-low level dissolved and total metals analysis done by Microinorganics, Inc. and nutrients and chlorophyll analysis done by the MERL lab at the University of Rhode Island, Graduate School of Oceanography

**CONTACT**

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[john.motta@narrabay.com](mailto:john.motta@narrabay.com)

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**INSTITUTION** **Narragansett Bay Commission**

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**PROGRAM** Providence and Seekonk River Sampling  
**PURPOSE** To assess the water quality of the Providence and Seekonk Rivers for Fecal Coliform  
**SYSTEM** Water  
**INTERVAL** Every two weeks from May to October  
**DATES** 2003 to present  
**DATA\_FORMAT** Digital Database  
**QUALITY\_CONTROL** QA/QC Protocol and Standard Methods  
**ACCESS** Available upon request  
**URL**

**PARAMETERS\_MEASURED** Fecal Coliform, Temperature, Salinity

**LOCATIONS** 19 locations from the uppermost part of the Seekonk River to Conimicut Point in the Providence River

**NOTES**

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**INSTITUTION** [Narragansett Bay Commission](#)

**PROGRAM** Providence River Fixed Site Continuous Water Quality Monitoring

**PURPOSE** To assess the water quality of the Providence River for Temperature, Salinity, Dissolved Oxygen, pH, Chlorophyll, Fluorescence and Turbidity on a continuous basis

**SYSTEM** Water

**INTERVAL** Every 15 minutes, 2001 to present spring to late fall

**DATES** 2001 to present

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** QA/QC Protocol and Standard Methods

**ACCESS** available upon request

**URL** <http://www.narrabay.com/empact/>

**PARAMETERS\_MEASURED** Temperature, Salinity, Dissolved Oxygen, pH, Chlorophyll and Turbidity

**LOCATIONS** A buoy site in the Providence River between Gaspee Point and Conimicut Point

**NOTES**

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**INSTITUTION** [Narragansett Bay Commission](#)

**PROGRAM** Regional River Fecal Monitoring

**PURPOSE** To assess status of rivers that are affected by the NBC's wastewater systems in relation to bacterial contamination

**SYSTEM** Water

**INTERVAL** Weekly

**DATES** 1998 to present

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** QA/QC Protocol and Standard Methods

**ACCESS** Available on request

**URL** <http://www.narrabay.com/>

**PARAMETERS\_MEASURED** Fecal Coliform

**LOCATIONS** 21 stations on the Moshassuck, Blackstone, Woonasquatucket, West and Providence Rivers

**NOTES** NBC has been conducting sampling and monitoring since 1998. For ten years prior to 1998, ESS was responsible for sampling and analysis.

**CONTACT**  
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**INSTITUTION** **Narragansett Bay Commission**

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**PROGRAM** Seekonk River Fixed Site Continuous Water Quality Monitoring

**PURPOSE** To assess the water quality of the Seekonk River for Temperature, Salinity, Dissolved Oxygen, pH, Chlorophyll, Fluorescence and Turbidity on a continuous basis

**SYSTEM** Water

**INTERVAL** Every 10 minutes, 2001 to present spring to late fall

**DATES** 2001 to present

**DATA\_FORMAT** Digital Spreadsheet

**QUALITY\_CONTROL** QA/QC Protocol and Standard Methods

**ACCESS** Available on Request

**URL** <http://www.narrabay.com/empact/>

**PARAMETERS\_MEASURED** Temperature, Salinity, Dissolved Oxygen, pH, Chlorophyll and Fluorescence

**LOCATIONS** A dock site in the Seekonk River, located at Phillipsdale Landing along the east bank of the Seekonk River half-way between Bucklin Point and Greenwood Point

**NOTES****CONTACT**

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Narragansett Bay Commission  
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Providence, RI 02905  
Phone (401) 461-8848  
Fax (401) 461-0170  
[john.motta@narrabay.com](mailto:john.motta@narrabay.com)

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**INSTITUTION** **Narragansett Bay Commission**

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**PROGRAM** Woonasquatucket River Wet Weather Monitoring

**PURPOSE** To assess the water quality in the lower Woonasquatucket River for Fecal Coliform concentrations, dissolved trace metal impairment, total suspended solids (TSS), and water hardness during specific phases of wet weather events

**SYSTEM** Water

**INTERVAL** Before, during, and after storm events

**DATES** September 20,21 2001 and August 29,30 2002

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** QAPP designed by NBC, approved by EPA

**ACCESS** Available on request

**URL** <http://www.narrabay.com/>

**PARAMETERS\_MEASURED** Dissolved metals: Cadmium, Copper, Lead, Silver, Zinc, TSS, Hardness (equivalent to CaCO<sub>3</sub>/L) and Fecal Coliform

**LOCATIONS** 5 stations on the Woonasquatucket River

**NOTES** Interval: 5 collections made pre-, during and post-storm at each station using autosampler for trace metals, TSS and hardness. 3 collections made before and during the wet weather event for fecal coliform. QC/QA: The Quality Assurance Project Plan (QAPP) was completed by the NBC, and approved after review by US-EPA Region 1  
Notes: Trace metals and TSS analysis done by Microinorganics, Inc. and Fecal Coliform analysis done by the NBC laboratory

**CONTACT**

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**INSTITUTION**      **National Park Service**

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**PROGRAM**    Blackstone Valley National Heritage Corridor

**PURPOSE**    Educational

**SYSTEM**     Misc

**INTERVAL**    Varies

**DATES**

**DATA\_FORMAT**

**QUALITY\_CONTROL**

**ACCESS**    Contact program coordinator

**URL**        <http://www.nps.gov/blac/home.htm>

**PARAMETERS\_MEASURED**    Vary according to project

**LOCATIONS**    Blackstone River Valley sites

**NOTES**

**CONTACT**

Dan Meharg

Blackstone Valley National  
Heritage Corridor

One Depot Square

Woonsocket, RI 02895

Phone (401) 762-0250

Fax

Dan\_Meharg@nps.gov

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**INSTITUTION**      **National Park Service**

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**PROGRAM**    Blackstone Valley National Heritage Corridor

**PURPOSE**    Primarily educational, operated through Woonsocket High School

**SYSTEM**     Water

**INTERVAL**    3 days weekly during school year

**DATES**       ~1998

**DATA\_FORMAT**

**QUALITY\_CONTROL**

**ACCESS**    Contact Dan Meharg

**URL**        <http://www.nps.gov/blac/home.htm>

**PARAMETERS\_MEASURED**    Water quality

**LOCATIONS**    3 Blackstone River Valley sites

**NOTES**

**CONTACT**

Dan Meharg

Blackstone Valley National  
Heritage Corridor

One Depot Square

Woonsocket, RI 02895

Phone (401) 762-0250

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**INSTITUTION** **NMFS S/K; CMER; RI Sea Grant**

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**PROGRAM** Lobster Tagging Program

**PURPOSE** Acquire information on growth, egg extrusion, shell disease, migration & survival for American lobster.

**SYSTEM** Fauna

**INTERVAL** Daily, as encountered

**DATES** 1994-2003

**DATA\_FORMAT** Digital GIS Coverage

**QUALITY\_CONTROL** Training wkshops,

**ACCESS** Available

**URL** None

**PARAMETERS\_MEASURED** Tag/recapture using number floy anchor tags. Condition & carapace size recorded.

**LOCATIONS** Narr Bay, RI Sound, BL Sound, Offshore Canyon

**NOTES** Merges several programs: N Cape Lobster Restoration monitoring (2001-2003), RI Lobstermen's Assoc. Tagging Prgm. (1999-2001); URI Tagging Program (1994-1999). Data also avai in Excel spreadsheets. Commercial lobstermen responsible for sampling

**CONTACT**

Kathleen Castro  
Fisheries Center, URI  
East Farm

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Phone (401) 874-5063  
Fax (401) 789-8930  
kcastro@uri.edu

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**INSTITUTION** **NOAA**

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**PROGRAM** Physical Oceanographic Real Time System (PORTS)

**PURPOSE** Measurement and dissemination of real-time data on water levels, tides, wind and other oceanographic data

**SYSTEM** Water

**INTERVAL** real-time

**DATES**

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL**

**ACCESS** Available on line

**URL** co-ops.nos.noaa.gov/nbports

**PARAMETERS\_MEASURED** Water level, currents, wind speed and direction, air temp, water temp, air pressure, salinity

**LOCATIONS** Providence, Conimicut Light, Fall River, Newport, Quonset Point

**NOTES**

**CONTACT**

Stephen Lyles  
NOAA Co-ops  
1305 East West Hwy

Silver Spring, MD 20910  
Phone (301) 713-2877  
Fax (301) 713-4436  
Stephen.Lyles@noaa.gov

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**INSTITUTION**      **NOAA**

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**PROGRAM**    The National Status and Trends Program

**PURPOSE**    Determine the status and trends in environmental quality of the Nations estuarine and coastal waters.

**SYSTEM**      Water, Fauna

**INTERVAL**    Bi-annual

**DATES**        1984- on-going

**DATA\_FORMAT**    Digital Database

**QUALITY\_CONTROL**    QA/QC protocols in place

**ACCESS**    public access- world wide web

**URL**    <http://ccmaserver.nos.noaa.gov/NSandT>

**PARAMETERS\_MEASURED**    Sediment chemistry:PAHs, PCBs, pesticides,toxic elements,clostridium perfringens spores,TOC, grain size Fish: liver-pcbs,pesticides,trace elements, Bile-fluorescent aromatic compounds, stomach-pcbs,pesticides,toxic elements,PAHs, Fish- biologyage,length, gross pathology,liver anf kidney leisons, stomach content taxonomy.

**LOCATIONS**    Mt.Hope Bay,Prudence Island, Dyer Island, Dutch island, Patience Island, Conanicut Island

**NOTES**    The NS&T program is comprised of 7 components: Mussel Watch, Benthic Surveillance, Bioeffects Survey, Historial Trends, Coastal Contamination Assessment, Quality Assurance, and Specimen Banking.

**CONTACT**

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**INSTITUTION**      **NOAA/NMFS**

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**PROGRAM**    NOAA Restoration Center Programs

**PURPOSE**    Provides damage assessment and restoration projects for ecosystems impacted by oil spills and contaminant releases (e.g. North Cape oil spill, lobster and shell fish restoration)

**SYSTEM**      Fauna

**INTERVAL**    variable

**DATES**        2000-2004

**DATA\_FORMAT**    Analog Report

**QUALITY\_CONTROL**    unknown

**ACCESS**    Limited

**URL**    <http://www.nmfs.noaa.gov/habitat/restoration>

**PARAMETERS\_MEASURED**    Population dynamics for commercial marine resources (lobsters,bay csallops,oysters,finfish)

**LOCATIONS**    RI coastal waters (offshore and salt ponds)

**NOTES**    Cuurently three restoration projects on-going in RI Lobster restoration (North Cape Oil Spill), Bay scallop and oyster restoration (Salt Ponds), Anadromous fish tagging. (Alewife, bluebck herring)

**CONTACT**

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Tarzwell Drive  
  
Narragansett, RI 02881  
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james.g.turek.noaa.gov

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**INSTITUTION**      **NOAA/NMFS , EPA, RIDEM, URI**

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**PROGRAM** Narragansett Bay Window

**PURPOSE** Monitoring in support of coastal resource management- enhance fish stock assessment, recreational use of Bay, improve commercial fish catch.

**SYSTEM** Water, Fauna, Flora

**INTERVAL** Monthly - Trawled array; Continuous-fixed array

**DATES** 1998- on-going

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** QA/QC protocols in place

**ACCESS** Public acces-World Wide Web

**URL** [www.narrbay.org](http://www.narrbay.org)

**PARAMETERS\_MEASURED** CTD, Fluorometer, DO, PAR, optical plankton counter,continuous plankton recorder (Nu Shuttle), Sediment chemistry, primary productivity, benthic community structure and function.

**LOCATIONS** Fixed stations in the Bay and Bay transects-70 mile Bay circuit.

**NOTES** This program is a true collaboration between Federal Agencies (NOAA/NMFS, EPA), RIDEM, URI, Sea Grant, Narragansett Bay Estuary Program, National Estuarine Research Reserve, Roger Williams College, and Brown University.

**CONTACT**

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**INSTITUTION**      **NOAA/RIDEM**

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**PROGRAM** National Estuarine Reserve System: Narragansett Bay, RI

**PURPOSE** Long term monitoring of Estuarine water quality and related bio-indicators. 26 estuaries throughout the nation participate in this program

**SYSTEM** Water

**INTERVAL** Continous at 30 minute intervals.

**DATES** 1980- on-going

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** QA/QC protocols in place

**ACCESS** Public access -world wide web

**URL** <http://www.ocrm.nos.noaa.gov/nerr/reserves/nernarraganset>

**PARAMETERS\_MEASURED** Water quality measurements include: temperature,salinity, disolved oxygen, depth, turbidity, and chlorophyl.

**LOCATIONS** Potters Cove, T-Warf (Prudence Island)

**NOTES** DO surveys for Narragansett Bay are also conducted under this program.

**CONTACT**

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**INSTITUTION**      **Norman Bird Sanctuary**

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**PROGRAM**    Norman Bird Sanctuary  
**PURPOSE**    Educational - Amphibian monitoring; for management purposes - grassland avian nesting species; for marshland restoration - marshland survey,  
**SYSTEM**      Fauna  
**INTERVAL**    Varies with program  
**DATES**        1995 to present for grassland study  
**DATA\_FORMAT**    Digital Spreadsheet  
**QUALITY\_CONTROL**    Varies with program

**CONTACT**

Veronica Hinds  
Norman Bird Sanctuary  
583 Third Beach Rd  
  
Middletown, RI 02842  
Phone (401) 846-2577  
Fax (401) 846-2772  
vhinds@normanbirdsanctuary.org

**ACCESS**    Contact sanctuary

**URL**    <http://www.normanbirdsanctuary.org/home.shtml>

**PARAMETERS\_MEASURED**    Vary with types of monitoring efforts

**LOCATIONS**    Various sites on Middletown sanctuary

**NOTES**    One of two sites for Bioblitz 2001 Fall, marshland monitoring starting fall of 2001, grassland avian study has been going on since 1995.

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**INSTITUTION**      **Pawtuxet River Authority**

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**PROGRAM**    Pawtuxet River Authority  
**PURPOSE**    Environmental education, and to measure water quality for watershed management and health.  
**SYSTEM**      Water  
**INTERVAL**    Monthly-year round  
**DATES**        1994 to present  
**DATA\_FORMAT**    Digital Spreadsheet  
**QUALITY\_CONTROL**  
**ACCESS**    Contact Guy Lefebvre  
**URL**    <http://www.pawtuxet.org>  
**PARAMETERS\_MEASURED**    Temperature, pH, DO, flow/water level, hardness.  
**LOCATIONS**    12 Stations along the Pawtuxet River  
**NOTES**

**CONTACT**

Guy Lefebvre  
Pawtuxet River Authority  
Box 336  
  
West Warwick, RI 02893  
Phone (401) 739-7635  
Fax (401) 736-7635  
guylefebvre@pawtuxet.org

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**INSTITUTION** **Pine Point School**

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**PROGRAM** Pine Point School, Oceanology Program**PURPOSE** 1. To involve students in monitoring local estuaries, 2. To engage students in real-world science, 3. To have the students' efforts contribute to the overall body of data that is available to other organizations and agencies, and 4. To give students an understanding of field experiences and the follow-up lab work with analysis of the data**SYSTEM** Water, Flora, Fauna**INTERVAL** Annual**DATES** Fall 1988 - on-going**DATA\_FORMAT** Digital Spreadsheet**QUALITY\_CONTROL****ACCESS** Yes**URL** N/A**PARAMETERS\_MEASURED** Salinity and Temperature are measured at each meter; Dissolved Oxygen is measured at the surface and bottom; Current Speed and direction; Water visibility; Water color; Sediment type; Nutrients = phosphates and nitrates; Coliform colonies; Benthic life = plant and animal; Planktonic Life**LOCATIONS** Pawcatuck Estuary; Little Narragansett Bay; Mystic Estuary**NOTES****CONTACT**Alan Banister  
Pine Point School  
89 Barnes Road

Stonington, CT 06378

Phone (860) 535-0881

Fax (869) 535-8033

pbanister@snet.net

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**INSTITUTION** **Pokanoket Watershed Alliance**

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**PROGRAM** Runnins River Monitoring**PURPOSE** To assess conditions in the lower Runnins River and Hundred Acre Cove**SYSTEM** Water**INTERVAL** Monthly**DATES** 1991 - ongoing**DATA\_FORMAT** Digital Spreadsheet**QUALITY\_CONTROL** 0**ACCESS** DEM TMDL program has this data - Heidi Travers**URL****PARAMETERS\_MEASURED** Bacteria; pH (lab analysis), clarity(Secchi disk); temperature (thermometer)**LOCATIONS** Six stations in the lower Runnins River (MA/RI) and Hundred Acre**NOTES****CONTACT**

Bruce Tanner

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Phone (401) 433-2908

Fax

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**INSTITUTION** Pokanoket Watershed Alliance

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**PROGRAM** Runnins River Task Force  
**PURPOSE** To identify and mitigate sources of bacterial contamination to the Runnins River  
**SYSTEM** Water  
**INTERVAL** .  
**DATES** ~1994  
**DATA\_FORMAT**  
**QUALITY\_CONTROL**  
**ACCESS**  
**URL**  
**PARAMETERS\_MEASURED** Fecal coliform  
**LOCATIONS** Multiple sites on the Runnins River  
**NOTES**

**CONTACT**

Carolyn Faulhaber  
Pokanoket Watershed Alliance  
1 Craig Drive

Barrington, RI 02806  
Phone (401) 245-3036  
Fax

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**INSTITUTION** Providence Plan

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**PROGRAM** Woonasquatucket River Greenway  
**PURPOSE** Environmental education  
**SYSTEM** Water, Fauna  
**INTERVAL** .  
**DATES** Anticipated start was 1998  
**DATA\_FORMAT**  
**QUALITY\_CONTROL**  
**ACCESS**  
**URL**  
**PARAMETERS\_MEASURED** DO, Salinity, habitat assessments  
**LOCATIONS** Woonasquatucket River  
**NOTES**

**CONTACT**

Jane Sherman  
Providence Plan  
56 Pine Street

Providence, RI 02903  
Phone (401) 455-8880  
Fax (401) 331-6840  
jsherman@providenceplan.org

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**INSTITUTION**      **Prudence Island Conservancy and NBNERR**

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**PROGRAM** Prudence Island Conservancy Citizens Monitoring Program  
**PURPOSE** Develop baseline data and water quality trends on Prudence Island.  
**SYSTEM** Water  
**INTERVAL** Weekly, Year round  
**DATES** 1989 to present  
**DATA\_FORMAT** Digital Spreadsheet  
**QUALITY\_CONTROL** Standard Methods  
**ACCESS** Contact Dr. Kenny Rapoza  
**URL** N/A

**PARAMETERS\_MEASURED** Air Temperature (weather station), Wind (weather station), Water Temperature (Hydrolab meter), Rainfall (chart recorder), pH (benchtop meters), Dissolved Oxygen (Hydrolab meter and La Motte Kits), water clarity (Secchi), and Salinity (Hydrolab meter).

**LOCATIONS** Potter Cove and South Prudence T-Warf

**NOTES** Sea-truthing monitoring program associated with The National Estuary Research Reserve Program (NERR).

**CONTACT**

Dr. Kenny Rapoza  
NBNERR  
Prudence Conservancy  
  
0113 Mount Pleasant Ave.  
Prudence Island, RI 02872  
Phone (401) 683-6780  
Fax (401) 682-1936  
Kenny@gsosun1.gso.uri.edu

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**INSTITUTION**      **Ray Vincent**

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**PROGRAM** Rhode Island Bristol County Observer Network (RIBCON)  
**PURPOSE** Measure and record weather data of local weather patterns in Rhode Island and Bristol County, Massachusetts  
**SYSTEM** Climate  
**INTERVAL** Daily, year round  
**DATES** 1992 to present  
**DATA\_FORMAT** Analog Report  
**QUALITY\_CONTROL** Standard  
**ACCESS** Membership in network (\$12 fee)  
**URL**

**PARAMETERS\_MEASURED** Air temperature (thermometer), wind speed/direction (wind vane and anemometer), precipitation (rain gauge, ruler for snow?)

**LOCATIONS** Throughout RI and Bristol County, MA

**NOTES** This weather monitoring network produces monthly reports sent to all members of the network (whether you collect data or not). An annual fee of \$12 covers postage and coping costs.

**CONTACT**

Ray Vincent  
RIBCON  
13 Kenyon Street  
  
Providence, RI 02930  
Phone (401) 421-8382  
Fax  
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**INSTITUTION**      **Ray Vincent**

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**PROGRAM**    RIBCON - Rhode Island Bristol County Network

**PURPOSE**    Develop baseline data of local weather patterns in Rhode Island and Bristol County, Massachusetts

**SYSTEM**      Climate

**INTERVAL**    daily

**DATES**        ~1990

**DATA\_FORMAT**    Analog Report

**QUALITY\_CONTROL**    Standard

**ACCESS**    Membership in network (\$11 fee)

**URL**

**PARAMETERS\_MEASURED**    Air temperature (thermometer), wind speed/direction, precipitation (rain gauge, ruler for snow?)

**LOCATIONS**    Throughout RI and Bristol County, MA

**NOTES**    This weather monitoring network produces monthly reports sent to all members of the network (whether you collect dat or not). An annual fee of \$11 covers postage and coping costs.

**CONTACT**  
Ray Vincent  
RIBCON  
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Providence, RI 00000  
Phone (401) 421-8382  
Fax  
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**INSTITUTION**      **Raytheon Corporation**

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**PROGRAM**    Raytheon Employees Wildlife Habitat Committee

**PURPOSE**    To develop a comprehensive habitat management plan for Raytheon's Portsmouth campus, with special emphasis on increasing biodiversity and enhancing and maintaining native species.

**SYSTEM**      Fauna

**INTERVAL**    Year round

**DATES**        October 1999 to present

**DATA\_FORMAT**    Other (Describe in Notes)

**QUALITY\_CONTROL**    In consultation with a variety of professional

**ACCESS**    Available on the website

**URL**    <http://rewhc.org/home.shtml>

**PARAMETERS\_MEASURED**    Fauna and flora inventories (surveys)

**LOCATIONS**    Multiple sites throughout the Portsmouth campus

**NOTES**    This project is in coordination with Wildlife Habitat Council (Silver Spring, Maryland), which assists corporations with developing comprehensive wildlife management plans for their corporate campuses. Data is availabe in multiple formats on the web

**CONTACT**  
Elizabeth Ripa  
Raytheon Employees Wildlife  
Habitat Committee  
Rte 138  
  
Portsmouth, RI 02871  
Phone (401) 842-2350  
Fax  
director@rewhc.org.

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**INSTITUTION** [Rhode Island Surfrider Foundation](#)

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**PROGRAM** Blue Water Task Force Beachscape

**PURPOSE** To assess water quality along Rhode Island's coastal beaches and surfing sites

**SYSTEM** Water

**INTERVAL** Monthly in summer

**DATES** 2000 to present

**DATA\_FORMAT** Digital Spreadsheet

**QUALITY\_CONTROL** Standard methods, published protocols

**ACCESS** Website, or from URI Watershed Watch

**URL** <http://www.edc.uri.edu/surfrider/>

**PARAMETERS\_MEASURED** Beachscape (observation), fecal coliform and E. coli (direct enumeration, mTEC), enterococci (direct enumeration, mE)

**LOCATIONS** Up to 12 sites from Westerly to Newport

**NOTES** Fecal coliform and enterococci monitoring conducted in conjunction with the URI Watershed Watch Program ([uriww@etal.uri.edu](mailto:uriww@etal.uri.edu))

**CONTACT**

Gerri Micelli  
Rhode Island Surfrider  
Foundation  
PO Box 43  
  
Narragansett, RI 02882  
Phone (401) 874-5054  
Fax  
[gerri@risurfrider.org](mailto:gerri@risurfrider.org)

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**INSTITUTION** [RI Sea Grant](#)

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**PROGRAM** Impacts of Ctenophore *M. leidyi* on Ichthyoplankton

**PURPOSE** Determine abundance and seasonal distribution of the ctenophore *M. leidyi* in Narr Bay in relation to bay water temperature & the abundance and distribution of larval fish & other zooplankton.

**SYSTEM** Fauna

**INTERVAL** Once per week GSO dock, monthly six other Bay stations

**DATES** June 1999 to Sept 2002

**DATA\_FORMAT** Digital Spreadsheet

**QUALITY\_CONTROL** Std protocols for abundance; calibrated temp/sal

**ACCESS**

**URL**

**PARAMETERS\_MEASURED** Abundance (#/m<sup>3</sup>), volume (mls/m<sup>3</sup>) of *M. leidyi*; abundance (#/m<sup>3</sup>) of other zooplankton categories (copepods, etc.), water temp, salinity

**LOCATIONS** GSO Dock; Prov Riv; Ohio ledge; Greenwich Bay; west side of Prudence Island; Wickford Cove; south side of Jamestown bridge

**NOTES**

**CONTACT**

Barbara Sullivan  
GSO, URI  
S. Ferry Rd  
  
Narragansett, RI 02882  
Phone (401) 874-6659  
Fax (401) 874-6160  
[bsull@gso.uri.edu](mailto:bsull@gso.uri.edu)

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**INSTITUTION** [RI Sea Grant, Brown Univ.](#)

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**PROGRAM** Assessing Status of Narr Bay Saltmarsh Plant Communities  
**PURPOSE** Dvlp a baseline assessment of RI saltmarshes and how eutrophication impacts them. Initiate a long-term monitoring program to enable detection of impacts of exotic spp. Invasions & sea-level change.

**SYSTEM** Flora

**INTERVAL** Contact Dr. Bertness for details

**DATES** 1997-2002

**DATA\_FORMAT** Digital Spreadsheet

**QUALITY\_CONTROL**

**ACCESS**

**URL**

**PARAMETERS\_MEASURED** Tidal heights of plant zonal borders w/ std survey equip. Primary product of all zooplankton dominant marsh plants at each site using end of season biomass. Secondary product estimates using fiddler crab, killifish, & marsh snail densities. Contact Dr. Bertness for additional details

**LOCATIONS** 20-30 Narr Bay Marshes

**NOTES** Bertness hopes to take seven years of monitoring data produced by this project and apply for NSF funding of a permanent monitoring program.

**CONTACT**

Dr. Mark Bertness  
Brown Univ., Department of Ecology & Evolutionary Biology  
Department of Evolutionary Ecology

Providence, RI 02912  
Phone (401) 863-2280  
Fax (401) 863-2166  
mark\_bertness@brown.edu

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**INSTITUTION** [RI Sea Grant, RI DEM](#)

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**PROGRAM** Lobster Larval Settlement Index

**PURPOSE** Determine whether a larval settlement index will be useful as a predictor of population trends in the American lobster fishery

**SYSTEM** Fauna

**INTERVAL** Each site sampled annually end of settlement season

**DATES** 1990-present

**DATA\_FORMAT** Digital Spreadsheet

**QUALITY\_CONTROL**

**ACCESS** Available

**URL** None

**PARAMETERS\_MEASURED** At each site, 12 half-meter squared quadrats suctioned and sampled destructively removing interstitial fauna; suction samples collected in 1.5 mm mesh bags. Organisms too large for suction sampler caught by hand & are measured in situ.

**LOCATIONS** Harbor-of-Refuge, Black Pt, Southwest Pt, Castle Hill, Lands End, Sachuest Pt.

**NOTES** The intent of Dr. Wahle is to establish long-term funding support from the state of RI to continue the settlement index annually for the indefinite future, given that its predictive utility is adequately confirmed.

**CONTACT**

Dr. Richard Wahle  
Bigelow Lab  
Bigelow Laboratory for Ocean Sciences

West Boothbay Harbor, ME  
04575

Phone (206) 633-9659  
Fax (206) 633-9641  
rwhale@bigelow.org

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**INSTITUTION** [RI Sea Grant/CMER](#)

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**PROGRAM** Lobster Shell Disease Program**PURPOSE** Monitor shell condition of lobsters in Dutch Harbor, Narr Bay as part of ongoing artificial reef project.**SYSTEM** Fauna**INTERVAL** Weekly frm May to Oct**DATES** Mar 1997-Oct 2001**DATA\_FORMAT** Digital Spreadsheet**QUALITY\_CONTROL** Training & methodology**ACCESS** Available**URL** None**PARAMETERS\_MEASURED** Traps to capture lobsters. Shell disease index used to eval shell condn. Tag & recapture to frthr assess shell condn**LOCATIONS** Dutch Harbor, Narr Bay**NOTES** Project coordinated w/ RI DEM & similar data compiled at other sites thro sea sampling. Joint publication available.**CONTACT**Kathleen Castro  
Fisheries Center, URI  
East Farm

Kingston, RI 02881

Phone (401) 874-5063

Fax (401) 789-8930

kcastro@uri.edu

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**INSTITUTION** [RI Sea Grant; RI CRMC; RI DEM; RI Nat History srvy](#)

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**PROGRAM** Narrgansett Bay Rapid Assess. Survey fr Mrne bioinvasive spp**PURPOSE** Catalogue marine bioinvasive spp in RI coastal waters**SYSTEM** Fauna**INTERVAL** Every five years; frst yr: Aug 2000**DATES** 2000-present**DATA\_FORMAT** Digital Spreadsheet**QUALITY\_CONTROL** Best prof judgments of team of taxonomic experts**ACCESS****URL****PARAMETERS\_MEASURED** Invert orgs & algae sampling of encrusting & epiphytic communs on floating docks. Field & lab verfcatsn of smpled orgs. Sme smpling of adjacent shrlne habitats**LOCATIONS** Stn 1: Narr Boat Club, Seekonk Riv; Stn 2 Bootleggers Marina, Prov Riv; Stn 3 Edgewd Ycht Clb, Prov Riv; Stn 4 Cove Haven Marina, Barrngtn; Stn 5 Coasters Hrbr Island; Stn 6 R. Williams Univ dock; Stn 7 Colt Ste Park dock; Stn 8 Wickford Mrna; Stn 9 N Kingstn Mrna Allens Hrbr; Stn 10 Warwick Cve Mrna; Stn 11 Ft Getty Pier; Stn 12 Prudence Islnd T-wharf; Stn 13 Prudence Islnd Potters Cve**NOTES** Conducted in conjunction with similar study sponsored by MIT Sea Grant same year in Massachusetts. Taxonomic experts team assembled and supervised by Dr. James Carlton of Mystic Seaport/Williams College Marine Studies Program.**CONTACT**Kevin R. Cute  
RI CRMC  
4808 Tower Hill Rd

Wakefield, RI 02879

Phone (401) 783-3370

Fax (401) 874-3767

k\_cute@crmc.state.ri.us

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**INSTITUTION** **RI, The Nature Conservancy, RI Nat Hist Surv.**

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**PROGRAM** Rhode Island Odonata Atlas  
**PURPOSE** To identify and record the Odonata species found in Rhode Island  
**SYSTEM** Fauna  
**INTERVAL** Spring until fall  
**DATES** 1998 to 2003  
**DATA\_FORMAT** Digital Database  
**QUALITY\_CONTROL** Standard methods  
**ACCESS** Contact Ginger Carpenter  
**URL** <http://nature.org/states/rhodeisland/>  
**PARAMETERS\_MEASURED** Odonata species collected  
**LOCATIONS** Wetland complexes statewide  
**NOTES**

**CONTACT**

Ginger Carpenter  
RI Natural History Survey  
Coastal Institute  
University of Rhode Island  
Kingston, RI 02881  
Phone (401) 874-5800  
Fax  
vbrown@rinhs.org

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**INSTITUTION** **RIDEM**

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**PROGRAM** Adult American Shad and River Herring Monitoring  
**PURPOSE** To assess the abundance of adult shad and herring in RI  
**SYSTEM** Fauna  
**INTERVAL** Daily Mar.-July  
**DATES**  
**DATA\_FORMAT** Analog Report  
**QUALITY\_CONTROL**  
**ACCESS** Available upon request  
**URL**  
**PARAMETERS\_MEASURED** Frequency by manual fish counts at ladders or by counters  
**LOCATIONS** Pawcatuck R., Gilbert Stuart, Nonquit, Annaquatucket, Potowomut  
**NOTES** Shad are trapped and counted on Pawc. R. daily end of Mar. - July 4. Herring counted by direct count of fish over fish ladders or by electronic fish counters on Pawc. R. (difficult to do because of depth of water), Gilb. St., Non., Anna., Pot.

**CONTACT**

Phil Edwards  
RIDEM  
Great Swamp Field Hq  
P.O. Box 218  
West Kingston, RI 02892  
Phone (401) 789-0281  
Fax (401) 783-7490  
pedwardsdem@mindspring.com

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**INSTITUTION****RIDEM**

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**PROGRAM** Air Quality Monitoring**PURPOSE** To monitor air quality to assure standards are met, to be able to predict conc.of air pollutants and to evaluate trends and progress from improvements**SYSTEM** Air**INTERVAL** Variable; continous to 24 hr comp.**DATES** 70's to present**DATA\_FORMAT** Digital Database**QUALITY\_CONTROL****ACCESS** Available upon request**URL** [http://www.epa.gov/aqspubl1/annual\\_summary.html](http://www.epa.gov/aqspubl1/annual_summary.html)**PARAMETERS\_MEASURED** Fine particulates(PM2.5 and PM 10), ozone, nitrogen oxide, sulphur dioxide, carbon monoxide, VOCs, carbonyls, metals**LOCATIONS** Approx. 15 sites throughout RI**NOTES** not all sites are monitored for all pollutants**CONTACT**

Barbara Morin

RIDEM

Office of Air Resources

235 Promenade Street

Providence, RI 02908

Phone (401) 222-4700

Fax (401) 222-2017

bmorin@dem.state.ri.us

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**INSTITUTION****RIDEM**

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**PROGRAM** Aquatic Furbearer Survey**PURPOSE** To assess the population of aquatic furbearers**SYSTEM** Fauna**INTERVAL** Variable**DATES****DATA\_FORMAT****QUALITY\_CONTROL****ACCESS****URL****PARAMETERS\_MEASURED** numbers of furbearer taxa**LOCATIONS** Throughout RI**NOTES**

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**CONTACT**

Lori Suprock

RIDEM

Great Swamp Field Hq

P.O. Box 218

West Kingston, RI 02892

Phone (401) 789-0281

Fax (401) 783-7490

Lsuprock@mindspring.com

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**INSTITUTION****RIDEM**

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**PROGRAM** Artificial Substrate Monitoring  
**PURPOSE** Biological data used to supplement physical and chemical WQ data to identify long term trends in WQ which reflect water pollution abatement and/or needs  
**SYSTEM** Fauna  
**INTERVAL** 1X year in summer  
**DATES** 1974 to 2002  
**DATA\_FORMAT** Analog Data Sheet  
**QUALITY\_CONTROL** Standard methods  
**ACCESS** Available upon request

**URL****PARAMETERS\_MEASURED** Biological diversity using the Fullner multiple plate artificial substrate**LOCATIONS** 7 stations on RI rivers corresponding to USGS chemical sampling**NOTES** Sampling suspended in 2002. DEM intends to resume sampling in the future.**CONTACT**

RI DEM  
RIDEM  
Office of Water Resources

235 Promenade St.  
Providence, RI 02908  
Phone (401) 222-4700  
Fax (401) 222-3564  
rrichard@dem.ri.state.us

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**INSTITUTION****RIDEM**

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**PROGRAM** Assessment of Horse Shoe Crab Population  
**PURPOSE** Census of spawning population in state waters  
**SYSTEM**  
**INTERVAL** May-June: full & new moons  
**DATES** 2001 - on going  
**DATA\_FORMAT** Digital Database  
**QUALITY\_CONTROL** No  
**ACCESS** Contact Scott Olszewski  
**URL** [www.state.ri.us/dem](http://www.state.ri.us/dem)

**PARAMETERS\_MEASURED** Abundance, sex ratio; largely a volunteer beach survey**LOCATIONS** Forty-six (46) beaches statewide**NOTES** Provides baseline information for management by DEM & ASMFC**CONTACT**

Scott Olszewski  
DEM Marine Fisheries  
3 Fort Wetherill Road  
  
Jamestown, RI 02835  
Phone (401) 423-1934  
Fax  
solszews@dem.stat.ri.us

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Atlantic Salmon Restoration  
**PURPOSE**    Restore salmon to the Pawcatuck Watershed  
**SYSTEM**     Water  
**INTERVAL**    Varies  
**DATES**       1979-present  
**DATA\_FORMAT**    Digital Database  
**QUALITY\_CONTROL**  
**ACCESS**  
**URL**

**PARAMETERS\_MEASURED**    Direct count of returning adults, population estimates of juveniles, temperature, pH, DO

**LOCATIONS**    13 locations for juveniles; one location (Potter Hill) on Pawcatuck for adults

**NOTES**

**CONTACT**

Veronica Mason  
RIDEM  
Great Swamp Field HQ  
P.O. Box 218  
West Kingston, RI 02892  
Phone (401) 789-0281  
Fax (401) 783-7490  
veronica@netsense.net

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Biotxin Shellfish Poisoning Sampling  
**PURPOSE**    To assure shellfish in shellfish growing areas are free of biotoxins  
**SYSTEM**     Water  
**INTERVAL**    1X week  
**DATES**       2001  
**DATA\_FORMAT**    Analog Data Sheet  
**QUALITY\_CONTROL**  
**ACCESS**    Available upon request  
**URL**

**PARAMETERS\_MEASURED**    Phytoplankton seine pull

**LOCATIONS**    Random 2 samples during shellfish growing area monitoring

**NOTES**    In past this program was handled by the Department of Health. Starting this year DEM has taken over the program.

**CONTACT**

Joe Migliore  
RIDEM  
Office of Water Resources  
235 Promenade St.  
Providence, RI 02908  
Phone (401) 222-4700  
Fax (401) 222-3564  
jmiglior@dem.state.ri.us

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Bird Species Breeding Monitoring

**PURPOSE**    To determine breeding status of colony, nesting , shore and wading birds

**SYSTEM**     Fauna

**INTERVAL**   Variable

**DATES**

**DATA\_FORMAT**      Analog Report

**QUALITY\_CONTROL**

**ACCESS**    Available upon request

**URL**

**PARAMETERS\_MEASURED**      Breeding status

**LOCATIONS**    Throughout RI

**NOTES**    data is found in year end reports.

**CONTACT**  
Lori Suprock  
RIDEM  
Great Swamp Field Hq  
  
P.O. Box 218  
West Kingston, RI 02892  
Phone (401) 789-0281  
Fax (401) 783-7490  
Lsuprock@mindspring.com

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Chemical Baseline Monitoring

**PURPOSE**    To develop a baseline profile of water quality in the state

**SYSTEM**     Water

**INTERVAL**    1X quarter

**DATES**       1991 to 2003

**DATA\_FORMAT**      Digital Database

**QUALITY\_CONTROL**    QA/QC plan approved by EPA

**ACCESS**    Available upon request

**URL**

**PARAMETERS\_MEASURED**      DO, pH, total hardness, specific conductance, temperature, instantaneous flow, total and fecal coliform, fecal streptococci, BOD5, dissolved NO2 and NO3, NH4, dissolved ortho P, total P, dissolved Na, dissolved Cl, volatile suspended solids, total Cu, Cd, Pb, and Fe ( all sampling and analysis by standard methods)

**LOCATIONS**    25 stations on RI rivers and streams

**NOTES**    Sampling contracted with URI Department of Civil and Environmental and Environmental Engineering Departments. Sampling design modified in 2004 to reflect \*\*\*\*\* approach targeting the Wood River Watershed.

**CONTACT**  
Connie Carey  
RIDEM  
Office of Water Resources  
235 Promenade St.  
Providence, RI 02908  
Phone (401) 222-4700  
Fax (401) 222-3564  
ccarey@dem.state.ri.us

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**INSTITUTION**      **RIDEM**

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**PROGRAM** Fixed-site Monitoring in Narragansett Bay

**PURPOSE** Provide water quality time series data to characterize water quality conditions and support management and research

**SYSTEM** WATER

**INTERVAL** Every 15 minutes, seasonally

**DATES** 1998 to present

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** QAPP under development

**ACCESS** Available upon request, some off Internet

**URL** [www.narrbay.org/env-sci/data/buoy/buoydata.htm](http://www.narrbay.org/env-sci/data/buoy/buoydata.htm)

**PARAMETERS\_MEASURED** DO, temperature, chlorophyll, salinity, water level, pH, turbidity in some locations

**LOCATIONS** Nine fixed –site locations in Narragansett Bay; a tenth location is planned for installation.

**NOTES** Network is operated by cooperating agencies including DEM- OWR and NBNERR, NBC, URI-GSO and RWU. DEM and NBNERR contract with URI-GSO for technical support to maintain stations. Plans to expand the network in 2005 are expected to increase number of stations to 13-14.

**CONTACT**

Susan Kiernan  
DEM- Office of Water Resources  
235 Promenade Street  
  
Providence, RI 02908  
Phone (401) 222-4700  
Fax  
skiernan@dem.state.ri.us

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**INSTITUTION**      **RIDEM**

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**PROGRAM** Juvenile American Shad And river Herring Monitoring

**PURPOSE** To assess the juvenile herring and shad population that are migrating downstream

**SYSTEM** Fauna

**INTERVAL** Weekly or bi weekly June - Nov.

**DATES** 1986 to present

**DATA\_FORMAT** Analog Report

**QUALITY\_CONTROL**

**ACCESS** Available upon request

**URL**

**PARAMETERS\_MEASURED** Frequency, length and weight (seine, cast net, trap net, weir devices)

**LOCATIONS** Pawcatuck R., Gilbert Stuart, Nonquit, Annaquatucket, Potowomut

**NOTES** Use seine on Pawcatuck weekly mid Aug. - Nov 1. Other sites are weekly or biweekly June - Nov 1

**CONTACT**

Phil Edwards  
RIDEM  
Great Swamp Field Hq  
  
P.O. Box 218  
West Kingston, RI 02892  
Phone (401) 789-0281  
Fax (401) 789-7490  
pedwardsdem@mindspring.com

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Largemouth Bass Monitoring  
**PURPOSE**    To determine frequency and growth rates of large mouth bass in RI ponds  
**SYSTEM**      Fauna  
**INTERVAL**    Weekly Aug - Oct. (sometimes in spring)  
**DATES**  
**DATA\_FORMAT**      Analog Report  
**QUALITY\_CONTROL**

**ACCESS**    Available upon request

**URL**

**PARAMETERS\_MEASURED**      Frequency, catch rates, length, weight, scales

**LOCATIONS**    Tuckers P, Watchoag P, Pascoag Res, Wilson P. and Tiogue L

**NOTES**    Two methods of obtaining data. Bass Fish Tournaments are monitored for catch. Ususally one to two per weekend Aug.-Oct. Nighttime electroshocking is conducted once per year Sept.-Oct.

**CONTACT**

Phil Edwards  
RIDEM  
Great Swamp Field Hq.  
  
P.O. Box 218  
West Kingston, RI 02892  
Phone (401) 789-0281  
Fax (401) 783-7490  
pedwardsdem@mindspring.com

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Quahaug Dredge Survey  
**PURPOSE**    Determine the abundance, size composition and geographic distribution  
**SYSTEM**  
**INTERVAL**    Annually  
**DATES**      1993-on-going  
**DATA\_FORMAT**      Digital Database  
**QUALITY\_CONTROL**    No

**ACCESS**

**URL**    www.state.ri.us/dem

**PARAMETERS\_MEASURED**      Abundance, size frequency, species composition, predators, bottom composition, Hydraulic clam dredge

**LOCATIONS**    Narragansett Bay

**NOTES**    This program forms the basis for shellfish management recommendations

**CONTACT**

Dennis Erkan  
D.E.M. Marine Fisheries  
3 Fort Wetherill Rd.  
  
Jamestown, RI 02835  
Phone (401) 423-1932  
Fax  
derkan@dem.state.ri.us

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**INSTITUTION****RIDEM**

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**PROGRAM** Rapid Bioassessment Protocol Monitoring

**PURPOSE** To compare habitat (physical structure and flow regime) and biological measures with reference site conditions to determine support or non support of water quality aquatic life designated uses

**SYSTEM** Fauna

**INTERVAL** 1X yr in spring/summer season

**DATES** 1992 to present

**DATA\_FORMAT** Digital Spreadsheet and Digital Database

**QUALITY\_CONTROL** QAPP - EPA approved for 2002 - 2004; RBP \*\*\*\*, EPA

**ACCESS** Available upon request

**URL**

**PARAMETERS\_MEASURED** Macroinvertebrates using RBP

**LOCATIONS** 45 stream riffle areas in RI \*\*\*\* the period 1991 to 2001. Beginning in 2002, sample locations were modified with \*\*\*\* new stations on stream in Blackstone Watershed. In 2004 Pawcatuck DEM directed work be done in the Wood River Watershed as part of a demonstration project, with XX \*\*\*\* sampled \*\*\*\* on other streams. Field work conducted by Roger Williams University from 1992 - 2001, ESS group from 2002 - present.

**NOTES****CONTACT**

Connie Carey  
RIDEM  
Office of Water Resources

235 Promenade St.  
Providence, RI 02908  
Phone (401) 222-4700  
Fax (401) 222-3564  
ccarey@dem.state.ri.us

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**INSTITUTION****RIDEM**

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**PROGRAM** RI Pollution Discharge Elimination System Monitoring

**PURPOSE** To monitor point sources of wastewater into RI surface waters

**SYSTEM** Water

**INTERVAL** Dependent on nature of discharge

**DATES** 1983 to present

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** Standard methods

**ACCESS** Available upon request

**URL**

**PARAMETERS\_MEASURED** Dependent on nature of discharge

**LOCATIONS** 25 major, 110 minor and >200 stormwater discharges throughout RI

**NOTES** prior to 1983 program was run by EPA

**CONTACT**

Eric Beck  
RIDEM  
Office of Water Resources

235 Promenade Street  
Providence, RI 02908  
Phone (401) 222-4700  
Fax (401) 222-3564  
ebeck@dem.state.ri.us

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Rotating Basin Assessment of Rivers and Streams

**PURPOSE**    Characterize baseline water quality conditions in rivers and streams statewide

**SYSTEM**      Water

**INTERVAL**    Varies (1-3X year)

**DATES**        2004-present

**DATA\_FORMAT**      Digital Database

**QUALITY\_CONTROL**    QAPP approved by EPA – project specific

**ACCESS**    Upon request

**URL**

**PARAMETERS\_MEASURED**      22 physical and chemical parameters and macroinvertebrates collected in accordance with RBP protocols

**LOCATIONS**    In 2004, 32 stations on streams in the Wood River watershed, modified geometric sampling design

**NOTES**    Demonstration project for the rotating basin approach which is replacing the fixed-station network previously sampled. DEM contracts with URI-Civil and Environmental Engineering and private consultants to execute the work.

**CONTACT**  
Susan Kiernan  
RIDEM-Office of Water Resources  
235 Promenade Street  
  
Providence, RI 02908  
Phone (401) 222-4700  
Fax  
skiernan@dem.state.ri.us

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Shellfish Disease Monitoring

**PURPOSE**    Determination of presence & severity of parasite and other infections in molluscan shellfish

**SYSTEM**

**INTERVAL**    Annually: August

**DATES**        1998 - on going

**DATA\_FORMAT**

**QUALITY\_CONTROL**    Yes

**ACCESS**    Dr. Marta Gomez-Chiari

**URL**    [www.uri.edu/cels/favs/mg.html](http://www.uri.edu/cels/favs/mg.html)

**PARAMETERS\_MEASURED**      Collect quahogs & oysters, conduct histological and chemical examinations; diagnosis for MSX, QPX & Dermo

**LOCATIONS**    Twelve (12) sites statewide

**NOTES**    Provides baseline on infections of wild and aquaculture stock of oysters & quahogs. Also contact Art Ganz, RIDEM Division of Marine Fisheries, 3 Fort Wetherill Rd., Jamestown, RI 02835

**CONTACT**  
Dr. Marta Gomez-Chiari  
URI Dept. Fisheries and Aquaculture  
134 Woodward Hall  
  
Kingston, RI 02881  
Phone (401) 874-2917  
Fax  
gomezchi@uri.edu

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**INSTITUTION**      **RIDEM**

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**PROGRAM** Shellfish Growing Area Monitoring

**PURPOSE** To allow RI to participate in the harvesting, sales, transportation and processing of shellfish in accordance with NSSP requirements to protect human health

**SYSTEM** Water, Fauna

**INTERVAL** Approved areas 6X yr; cond. approved areas 1X mo.

**DATES** 1946 to present

**DATA\_FORMAT** Digital Spreadsheet

**QUALITY\_CONTROL** Standard Methods and NSSP requirements

**ACCESS** Available upon request

**URL** <http://dem.state.ri.us>

**PARAMETERS\_MEASURED** Fecal coliform(MPN method), temperature(twice per run)

**LOCATIONS** 303 stations in shellfish growing areas in salt ponds, bay and open ocean

**NOTES** data are not available on DEM web site but the shellfish closure maps, based on the data updated annually are posted.

**CONTACT**  
Joe Migliore  
RIDEM  
Office of Water Resources  
  
235 Promenade St.  
Providence, RI 02908  
Phone (401) 222-4700  
Fax (401) 222-3564  
[jmiglior@dem.state.ri.us](mailto:jmiglior@dem.state.ri.us)

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**INSTITUTION**      **RIDEM**

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**PROGRAM** Shellfish Monitoring Program Shoreline Surveys

**PURPOSE** To locate actual and potential bacterial sources to shellfish growing areas

**SYSTEM** Fauna

**INTERVAL** Once/3 years with spot checking every year

**DATES** 1979 to present

**DATA\_FORMAT** Analog Report

**QUALITY\_CONTROL** Standard methods and NSSP requirements

**ACCESS** Available upon request

**URL** N/A

**PARAMETERS\_MEASURED** Sources and bacteria using MPN method, estimated flow rates in pipes

**LOCATIONS** 410 miles of RI coastline

**NOTES** surveys are incorporated into annual reports to FDA

**CONTACT**  
Joe Migliore  
RIDEM  
Office of Water Resources  
  
235 Promenade St.  
Providence, RI 02908  
Phone (401) 222-4700  
Fax (401) 222-3564  
[jmiglior@dem.state.ri.us](mailto:jmiglior@dem.state.ri.us)

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Stream and Pond Fisheries Surveys  
**PURPOSE**    Characterize freshwater fisheries in stream and ponds statewide  
**SYSTEM**     Water  
**INTERVAL**    Typically one sampling event per location  
**DATES**       1993-present  
**DATA\_FORMAT**      Digital Database  
**QUALITY\_CONTROL**  
**ACCESS**  
**URL**

**PARAMETERS\_MEASURED**      Electrofishing methods for sample collection. Fish counts by species, fish length; physical habitat, stream depth, width, substrate quality, water temperature, DO, pH, conductivity

**LOCATIONS**    Statewide

**NOTES**        Collection has largely been completed to develop a baseline dataset with publication of the data pending. Field collection now limited to filling gaps and other special needs.

**CONTACT**

Alan Libby  
RIDEM  
Great Swamp Field HQ  
P.O. Box 218  
West Kingston, RI 02892  
Phone (401) 789-0281  
Fax (401) 783-7490  
alibby@netsense.net

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Summer Inland Breeding Survey of Canadian Geese  
**PURPOSE**    To assess population of breeding canadian geese  
**SYSTEM**     Fauna  
**INTERVAL**    Variable  
**DATES**  
**DATA\_FORMAT**  
**QUALITY\_CONTROL**  
**ACCESS**  
**URL**

**PARAMETERS\_MEASURED**      Number of breeding canadian geese

**LOCATIONS**    Throughout RI

**NOTES**

**CONTACT**

Lori Suprock  
RIDEM  
Great Swamp Field Hq  
P.O. Box 218  
West Kingston, RI 02892  
Phone (401) 789-0281  
Fax (401) 783-7490  
Lsuprock@mindspring.com

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Total Maximum Daily Load (TMDLs)

**PURPOSE**    Characterize water quality conditions and identify sources of pollution causing water quality impairments

**SYSTEM**      Water

**INTERVAL**    Varies

**DATES**        1998 to present

**DATA\_FORMAT**    Digital Database

**QUALITY\_CONTROL**    QAPPs approved by EPA – project specific

**ACCESS**    Available on request

**URL**

**PARAMETERS\_MEASURED**    Specific to impairment. May include pathogens, nutrients, dissolved oxygen, metals.

**LOCATIONS**    137 waterbodies are listed for TMDL development over a 12 plus year schedule. At any point in time, a subset of the list are targets for water quality investigations, including monitoring activities.

**NOTES**

**CONTACT**  
Elizabeth Scott  
DEM- Office of Watersheds and Standards  
235 Promenade Street  
  
Providence, RI 02908  
Phone (401) 222-4700  
Fax  
escott@dem.state.ri.us

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Upland Game Species Monitoring

**PURPOSE**    To assess population of upland game species

**SYSTEM**      Fauna

**INTERVAL**    Variable

**DATES**

**DATA\_FORMAT**

**QUALITY\_CONTROL**

**ACCESS**

**URL**

**PARAMETERS\_MEASURED**    Game specis counts

**LOCATIONS**    Throughout RI

**NOTES**

**CONTACT**  
Lori Suprock  
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Great Swamp Field Hq  
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Lsuprock@mindspring.com

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**INSTITUTION**      **RIDEM**

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**PROGRAM**    Waterfowl Survey  
**PURPOSE**    To count waterfowl  
**SYSTEM**     Fauna  
**INTERVAL**   Variable  
**DATES**  
**DATA\_FORMAT**  
**QUALITY\_CONTROL**  
**ACCESS**  
**URL**  
**PARAMETERS\_MEASURED**    Numbers of ducks, geese and swans  
**LOCATIONS**    Throughout RI  
**NOTES**

**CONTACT**  
Lori Suprock  
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Great Swamp Field Hq  
P.O. Box 218  
West Kingston, RI 02892  
Phone (401) 789-0281  
Fax (401) 783-7490  
Lsuprock@mindspring.com

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**INSTITUTION**      **RIDEM/NOAA/ASMFC**

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**PROGRAM**    R.I. Lobster Research & Management Program  
**PURPOSE**    Assessment of the lobster resource & fishery in R.I.  
**SYSTEM**  
**INTERVAL**    Inshore twice/month; Offshore quarterly  
**DATES**        1990-on-going  
**DATA\_FORMAT**    Digital Database  
**QUALITY\_CONTROL**    Complys with NOAA & ASMFC standards  
**ACCESS**    Contact Tom Angell  
**URL**    www.state.ri.us/dem  
**PARAMETERS\_MEASURED**    Size, sex, shell condition, reproductive condition - sea sampling, inshore & offshore  
**LOCATIONS**    Narragansett Bay; Block Island Sound; Rhode Island Sound; Mid-shelf; and canyons  
**NOTES**    Results of this monitoring form the basis for lobster management in RI. Works in conjunction with other states, ASMFC, ACCSP, and NMFS management programs

**CONTACT**  
Tom Angell  
DEM Marine Fisheries  
3 Fort Wetherill Road  
  
Jamestown, RI 02835  
Phone (401) 423-1931  
Fax  
tangell@dem.state.ri.us

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**INSTITUTION**      **RIDEM/USFWS**

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**PROGRAM**    Assessment of Recreationally Important Pelagic Finfish in RI Waters

**PURPOSE**    Monitor species composition and abundance of pelagic fish in RI waters.

**SYSTEM**

**INTERVAL**    Monthly: May-November

**DATES**        2000 - on going

**DATA\_FORMAT**    Digital Database

**QUALITY\_CONTROL**    No

**ACCESS**    Contact Richard Satchwill

**URL**    www.state.ri.us/dem

**PARAMETERS\_MEASURED**    Monitor species composition; size distribution; age and weight @ length; sex ratio; water temperature and dissolved oxygen - Gill net survey

**LOCATIONS**    Eight (8) geographic regions in Narragansett Bay

**NOTES**    Serves to provide information on which to base species specific data for management of stocks in RI, other states, and ASMFC.

**CONTACT**

Richard Satchwill  
DEM Marine Fisheries  
  
3 Fort Wetherill Road  
  
Jamestown, RI 02835  
Phone (401) 423-1930  
Fax  
rsatchwi@dem.state.ri.us

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**INSTITUTION**      **RIDEM/USFWS**

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**PROGRAM**    Assessment of Young of the Year Glass Eel Recruitment and Migration

**PURPOSE**    Monitor migration, abundance, and size composition

**SYSTEM**

**INTERVAL**    Daily April-June

**DATES**        2000 - on going

**DATA\_FORMAT**    Digital Database

**QUALITY\_CONTROL**    Complys with ASMFC standards

**ACCESS**    Contact Michelle Burnett

**URL**    www.state.ri.us/dem

**PARAMETERS\_MEASURED**    Abundance, size, water temperature, dissolved oxygen. Installation of eel ramps into fish ladders.

**LOCATIONS**    Pettasquamscutt River (Gilbert Stuart); Annaquatucket fish ladder

**NOTES**    This is the basis for eel management in RI. Works cooperatively with other states and ASMFC

**CONTACT**

Michelle Burnett  
DEM Marine Fisheries  
  
3 Fort Wetherill Road  
  
Jamestown, RI 02835  
Phone (401) 423-1946  
Fax  
michelle.burnett@dem.ri.gov

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**INSTITUTION**      **RIDEM/USFWS**

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**PROGRAM** Coastal Fishery Resource Assessment Trawl Survey  
**PURPOSE** Monitoring species distribution throughout Narragansett Bay, RI and Block Island Sounds.

**SYSTEM**

**INTERVAL** Monthly: 18 stations; Spring/Fall: 28 stations

**DATES** 1979 - on going

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** Complys with NMFS standards

**ACCESS** Contact Tim Lynch

**URL** [www.state.ri.us/dem](http://www.state.ri.us/dem)

**PARAMETERS\_MEASURED** Species composition, catch effort, size, and weight; dissolved oxygen and temperature; otter trawl survey

**LOCATIONS** Narragansett Bay, RI Sound, and Block Island Sound

**NOTES** Provides basis for stock assessment on species regulated by the DEM, NMFS, and ASMFC.

**CONTACT**

Tim Lynch  
DEM Marine Fisheries  
3 Fort Wetherill Road

Jamestown, RI 02835  
Phone (401) 423-1928  
Fax  
[tlynch@dem.state.ri.us](mailto:tlynch@dem.state.ri.us)

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**INSTITUTION**      **RIDEM/USFWS**

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**PROGRAM** Fisheries Resources of RI Coastal Salt Ponds, Tidal Rivers, and Embayments

**PURPOSE** Catalog the species distribution in salt ponds and bay estuaries

**SYSTEM**

**INTERVAL** Monthly: one area per year

**DATES** 1989-200

**DATA\_FORMAT** Analog Report

**QUALITY\_CONTROL** No

**ACCESS** Contact Richard Satchwil

**URL** [www.state.ri.us/dem](http://www.state.ri.us/dem)

**PARAMETERS\_MEASURED** Species composition, size, weight, sex; water temperature, salinity, and dissolved oxygen; otter trawl, fyke net, beach seine, and gill net

**LOCATIONS** Statewide

**NOTES** Provided a baseline for finfish occurrence for each salt pond and estuary statewide.

**CONTACT**

Richard Satchwill  
DEM Marine Fisheries  
3 Fort Wetherill Road

Jamestown, RI 02835  
Phone (401) 423-1930  
Fax  
[rsatchwi@dem.state.ri.us](mailto:rsatchwi@dem.state.ri.us)

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**INSTITUTION**      **RIDEM/USFWS**

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**PROGRAM**      Monitoring of Ichthyoplankton Abundance in Narragansett Bay & Coastal Waters

**PURPOSE**      Monitor seasonal and geographic abundance of fish larvae and eggs.

**SYSTEM**

**INTERVAL**      Monthly

**DATES**          2000 - on going

**DATA\_FORMAT**      Digital Database

**QUALITY\_CONTROL**      No

**ACCESS**      Contact Dennis Erkan

**URL**      www.state.ri.us/dem

**PARAMETERS\_MEASURED**      Species abundance & seasonality, abundance by geographic region; water temperature, dissolved oxygen; plankton net survey

**LOCATIONS**      Sixteen (16) fixed stations in Narragansett Bay and RI Sound

**NOTES**      Plankton identification conducted by Dr. Grace Klein-McPhee

**CONTACT**  
Dennis Erkan  
DEM Marine Fisheries  
  
3 Fort Wetherill Road  
  
Jamestown, RI 02835  
Phone (401) 423-1932  
Fax  
derkan@dem.state.ri.us

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**INSTITUTION**      **RIDEM/USFWS**

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**PROGRAM**      Narragansett Bay Juvenile Finfish Survey

**PURPOSE**      Monitor species distribution and size composition of juvenile finfish throughout Narragansett Bay

**SYSTEM**

**INTERVAL**      Monthly: May-November

**DATES**          1985 - on going

**DATA\_FORMAT**      Digital Database

**QUALITY\_CONTROL**      No

**ACCESS**      Contact Chris Powell

**URL**

**PARAMETERS\_MEASURED**      Species and size; water temperature, dissolved oxygen, and salinity - Beach seine survey

**LOCATIONS**      Eighteen (18) fixed stations in Narragansett Bay

**NOTES**      Serves to provide an index of recruitment of regulated species. Winter flounder a high priority.

**CONTACT**  
Chris Powell  
DEM Marine Fisheries  
3 Fort Wetherill Road  
  
Jamestown, RI 02835  
Phone (401) 423-1929  
Fax  
cpowell@dem.state.ri.us

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**INSTITUTION****RIDEM/USFWS**

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**PROGRAM** Young-of-the-Year Survey of Selected Coastal Salt Ponds & Embayments

**PURPOSE** Monitor the abundance & distribution of juvenile finfish for the purpose of forecasting recruitment in relation to spawning biomass of winter flounder.

**SYSTEM**

**INTERVAL** Monthly: May-November

**DATES** 1993 - on going

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** No

**ACCESS** Contact Michelle Burnett

**URL** [www.state.ri.us/dem](http://www.state.ri.us/dem)

**PARAMETERS\_MEASURED** Species composition, size distribution; dissolved oxygen, water temperature, salinity; beach seine survey

**LOCATIONS** Winnapaug (3); Quonochontaug (3); Ninigret (4); Point Judith (3); Narrow River (3); Great Salt Pond, Block Island (3)

**NOTES** Provides and index of recruitment.

**CONTACT**

Michelle Burnett  
DEM Marine Fisheries  
  
3 Fort Wetherill Road  
  
Jamestown, RI 02835  
Phone (401) 423-1946  
Fax  
[michelle.burnett@dem.ri.gov](mailto:michelle.burnett@dem.ri.gov)

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**INSTITUTION****RIDOH**

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**PROGRAM** Beach Monitoring Program

**PURPOSE** To monitor beach water quality for the protection of human health

**SYSTEM** Water

**INTERVAL** Dependent on location and past history

**DATES** 1994 to present

**DATA\_FORMAT** Digital Database

**QUALITY\_CONTROL** QA/QC protocol and standard methods

**ACCESS** Online and raw data available upon request

**URL** <http://www.health.state.ri.us>

**PARAMETERS\_MEASURED** Fecal coliform and enterococci(A1 method)

**LOCATIONS** 115 fresh and saltwater beaches in RI

**NOTES** informal testing began in the late 60's

**CONTACT**

David Burnett  
RIDOH  
Office of Food Protection  
3 Capitol Hill  
Providence, RI 02908  
Phone (401) 222-2749  
Fax (401) 222-4775  
[ribeaches@doh.state.ri.us](mailto:ribeaches@doh.state.ri.us)

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**INSTITUTION**      **RIDOH**

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**PROGRAM**    Drinking Water Monitoring  
**PURPOSE**    To assess quality of drinking water for protection of human health  
**SYSTEM**     Water  
**INTERVAL**    Dependent of requirements from EPA  
**DATES**        Early 80's to present  
**DATA\_FORMAT**      Digital Database  
**QUALITY\_CONTROL**  
**ACCESS**    Available upon request  
**URL**

**CONTACT**  
Clay Commons  
RIDOH  
Rm 209 Drinking Water Quality  
3 Capitol Hill  
Providence, RI 02908  
Phone (401) 222-6867  
Fax (401) 222-6953  
safewater@doh.state.ri.us

**PARAMETERS\_MEASURED**      As required by Safe Drinking Water Act - SOCs, VOCs, radionuclides, inorganics, microbes  
**LOCATIONS**    All drinking water supplies, variety of finished and raw water  
**NOTES**        Larger drinking water systems conduct own monitoring. They send result to DOH only for EPA required parameters. DOH monitors small systems for EPA required parameters and other constituents.

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**INSTITUTION**      **Salt Ponds Coalition**

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**PROGRAM**    Salt Pond Watchers  
**PURPOSE**    Develop a data base of surface water quality in the seven coastal lagoons in the Salt Ponds Watershed.  
**SYSTEM**     Water  
**INTERVAL**    Biweekly for the summer months  
**DATES**        1985 to present  
**DATA\_FORMAT**      Digital Spreadsheet  
**QUALITY\_CONTROL**    Standard methods

**CONTACT**  
Ralph Minopoli  
Salt Ponds Coalition  
P.O. Box 875  
  
Charlestown, RI 02813  
Phone (401) 364-7771  
Fax (401) 322-8384  
Saltpondcoalition@hotmail.com

**ACCESS**    Contact Executive Director Vic Dvorak 401-322-1105  
**URL**        <http://www.saltpondscoalition.org>  
**PARAMETERS\_MEASURED**      Fecal coliform bacteria (MPN)  
**LOCATIONS**    Thirty stations on seven southwestern Rhode Island salt ponds.  
**NOTES**        Data is used by state and local agencies to help determine permitted use of the salt ponds by the public.

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**INSTITUTION**      **Save The Bay**

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**PROGRAM**    Bay Watchers

**PURPOSE**    Assessing the health of salt marshes, evaluating restoration potential, ground-truthing aerial habitat surveys, and monitoring herring runs. Also to conduct surveys of how people are using the urban rivers and waterfront to advocate for better management of urban waters.

**SYSTEM**     Water, Fauna

**INTERVAL**   Monthly

**DATES**       1993 to present

**DATA\_FORMAT**

**QUALITY\_CONTROL**    Standard methods

**ACCESS**    Contact Wenley Ferguson

**URL**    <http://www.savebay.org/>

**PARAMETERS\_MEASURED**      Dissolved Oxygen (LaMotte kits), Water clarity (Secchi disk), and Temperature (thermometers), seal counts (observation), horseshoe crab counts (observation)

**LOCATIONS**    Seekonk River, Providence River, and Wickford Harbor

**NOTES**    Bay Watchers are specifically working with troubled waters that may have hypoxic areas. The seal and horse shoe crab counts have been in conjunction with the Narragansett Bay National Estuary Research Reserve program volunteer monitoring efforts.

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**CONTACT**

Wenley Ferguson  
Save The Bay  
434 Smith Street

Providence, RI 02908  
Phone (401) 273-3540  
Fax (401) 273-7153

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**INSTITUTION**      **Save The Bay**

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**PROGRAM**    Save The Bay's Monitoring

**PURPOSE**    Assessing the health of salt marshes, pre/post restoration monitoring, ground-truthing aerial habitat surveys, eel grass restoration monitoring.

**SYSTEM**      Water

**INTERVAL**    Monthly for WQ, seasonal for fauna

**DATES**        1993 to present

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**    Standard method

**ACCESS**    Contact Wenley Ferguson

**URL**    <http://www.savebay.org/>

**PARAMETERS\_MEASURED**    Dissolved Oxygen (LaMotte kits), Water clarity (Secchi disk), and Temperature (thermometers), seal counts (observation), horseshoe crab spawning counts (observation), eel grass (observation).

**LOCATIONS**    Seekonk River, Providence River, and Wickford Harbor for water quality; statewide for Horseshoe crabs; baywide for seals

**NOTES**    Water quality sites are in potential hypoxic areas. The seal and horse shoe crab counts have been in conjunction with the Narragansett Bay Nat'l Estuary Research Reserve prog. efforts. Eel grass monitoring is post restoration.

**CONTACT**

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434 Smith Street

Providence, RI 02908  
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Fax (401) 273-7153  
[wferguson@savebay.org](mailto:wferguson@savebay.org)

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**INSTITUTION**      **Southern RI Conservation District**

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**PROGRAM**    Salt Marsh Restoration Monitoring at Duck Cove

**PURPOSE**    Assess the effect of re-establishment of tidal flow on biotic and abiotic componenets of the Duck Cove coastal ecosystem

**SYSTEM**

**INTERVAL**    Vegetation 1X per year, soil salinity 2X per year, tides every other year

**DATES**        1998 - on-going

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**    No

**ACCESS**    Annual reports available, public access

**URL**

**PARAMETERS\_MEASURED**    Vegetation height and % cover by species (photos, transects), soil salinity (refractometer), spring tide elevations (data loggers)

**LOCATIONS**    Duck Cove, North Kingstown

**NOTES**    Flow was restored in 2001

**CONTACT**

Kris Stuart  
Southern RI Conservation District  
60 Quaker Lane  
Suite 46  
Warwick, RI 02886  
Phone (401) 822-8832  
Fax (401) 828-0433  
[Kris.Stuart@ri.nacdnet.org](mailto:Kris.Stuart@ri.nacdnet.org)

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**INSTITUTION**      **The Audubon Society of Rhode Island**

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**PROGRAM**    RI Audubon Bird a Thon

**PURPOSE**    To inventory the avian species that breed in, and migrate through RI, to promote conservation of habitat

**SYSTEM**     Fauna

**INTERVAL**    Varies

**DATES**

**DATA\_FORMAT**

**QUALITY\_CONTROL**

**ACCESS**

**URL**

**PARAMETERS\_MEASURED**    Avian species (observation), conditions at refuges (observation)

**LOCATIONS**    Statewide

**NOTES**    This entry is incomplete, and may contain errors. It will be updated as direct contact is made with the program coordinator.

**CONTACT**

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dmathurin@asri.org

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**INSTITUTION**      **U.S. EPA in partnership with the coastal states**

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**PROGRAM**    National Coastal Assessment/EMAP

**PURPOSE**    To assess the ecological condition of coastal resources using a probability based monitoring design. Conducted in partnership with the 24 coastal states.

**SYSTEM**     Water, Fauna

**INTERVAL**    Annual- summer index period

**DATES**       2000-2003

**DATA\_FORMAT**      Digital Database

**QUALITY\_CONTROL**    EMAP QA/QC protocols

**ACCESS**    Public Access - World Wide Web

**URL**    <http://www.epa.gov/emap/>

**PARAMETERS\_MEASURED**      DO, salinity, temperature, water depth, water clarity (CTD), sediment toxicity, sediment chemistry, TOC, pH, TSS, %silt/clay, Light extinction, Benthic condition index (infaunal community analysis), fish community composition, fish pathology

**LOCATIONS**    Narragansett Bay and coastal waters

**NOTES**    The National Coastal Assessment (NCA) is the coastal assessment component of the Environmental Monitoring and Assessment Program (EMAP). There are approximately 56 sampling stations located in Narragansett Bay and an additional 20 stations along the southern coast.

**CONTACT**

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Walker.Henry@epamail.epa.gov

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**INSTITUTION**      **URI**

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**PROGRAM**    Bird monitoring @ Galilee Bird Sanctuary

**PURPOSE**    Monitor changes in avian community composition following restoration of a saltmarsh.

**SYSTEM**      Fauna

**INTERVAL**    Biweekly all year 1991-1996; point counts 92-99

**DATES**        1991-1999

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**    --

**ACCESS**    Available

**URL**    None

**PARAMETERS\_MEASURED**    Species composition, relative abundance, habitat associations, censused w/ point cts & spot mapping.

**LOCATIONS**    Galilee Bird Sanctuary

**NOTES**    Golet, Eddleman initiated monitoring. Surveys stopped in 99. Data from 91-97 prior to installation of tide gates. Post-restoration data available.

**CONTACT**  
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Coastal Institute  
--  
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**INSTITUTION**      **URI**

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**PROGRAM**    Monitoring Pond Breeding Amphibians in RI

**PURPOSE**    Monitor species composition & population dynamics of pond-breeding amphibian at a single site; focused on 2 species.

**SYSTEM**      Fauna

**INTERVAL**    70s: Mar-Nov; 90s: daily Mar-May, Aug-Nov

**DATES**        1970-1978, 1990-2000

**DATA\_FORMAT**    Analog Data Sheet

**QUALITY\_CONTROL**    --

**ACCESS**    Available

**URL**    None

**PARAMETERS\_MEASURED**    Age/Sex ratios, species composition, morphological characteristics; drift fence arrays w/ pitfall traps

**LOCATIONS**    Alton Jones Campus

**NOTES**    Shoop (URI) & Doty (R Williams U.) ran drft fce array at 1 pond during 1970s & 1990s. Capture data not fully entered. Paton seeking funding to continue array. 2nd longest running monitoring site of this type in N. America.

**CONTACT**  
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**INSTITUTION**      [URI & RI Audubon Society](#)

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**PROGRAM**      Kingston Wildlife Research Station

**PURPOSE**      Monitor fall migration of migratory birds

**SYSTEM**      Fauna

**INTERVAL**      Once every fall (7 Aug - 1 Nov)

**DATES**      1958-1994; 1998-present

**DATA\_FORMAT**      Digital Spreadsheet

**QUALITY\_CONTROL**      --

**ACCESS**      Available

**URL**      None

**PARAMETERS\_MEASURED**      Age/Sex ratios, species composition, morphological characs, 4-10 mist nets annually

**LOCATIONS**      Kingston Wildlife Rsch Station near junction of Rt 138 & Rt 108

**NOTES**      Banding program first run by Doug Kraus from 1958 to 1994. Passed on research/monitoring program to P. Paton. Kraus originally used 4 mist nets. Paton expanded program to 10 mist nets annually. Capture data still expressed as birds/100 net hours.

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**CONTACT**

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**INSTITUTION**      **URI Cooperative Extension**

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**PROGRAM**      University of Rhode Island Watershed Watch

**PURPOSE**      To Educate the public, promote active citizenship participation, obtain multi-year surface water quality data, and encourage information-based water quality programs.

**SYSTEM**        Water

**INTERVAL**      Weekly, Biweekly, and Monthly in the spring/summer

**DATES**         1988 to present

**DATA\_FORMAT**      Digital Spreadsheet

**QUALITY\_CONTROL**    Standard Methods, approved QAPP

**ACCESS**        Report published biannually

**URL**            <http://www.edc.uri.edu/uriww>

**PARAMETERS\_MEASURED**      Water temperature (thermometers), DO (La Motte Kits), pH (benchtop meter), Alkalinity (titration, meter), Water clarity (Secchi), Nitrogen (colorimetric), Phosphorus (colorimetric), Conductivity (meter), Chloride (colorimetric), Salinity (La Motte kits), Flow/water level (gauges, pygmy flow meter), Fecal coliform and E. coli Bacteria (direct enumeration, mTEC)

**LOCATIONS**      About 110 sites through Rhode Island

**NOTES**        This program works with a number of local organizations including the Wood Pawcatuck Watershed Assoc., the Narrow River Preservation Assoc., RI Surfrider Foundation, Narra. Chapt.Trout Unlimited, RI Audubon, RI TNC, RI DEM, Salt Ponds Coalition, etc.

**CONTACT**

Linda Green and Elizabeth Herron

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[uriww@etal.uri.edu](mailto:uriww@etal.uri.edu)

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**INSTITUTION**      **URI Depart of Geosciences, RI Sea Grant, RI CRMC**

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**PROGRAM**    Long-term Beach Profile Monitoring

**PURPOSE**    Create a record that has the temporal resolution to identify erosional and depositional patterns that occur on monthly, seasonal, & multiyear cycles.

**SYSTEM**      Land

**INTERVAL**    Weekly & before/after mjr storms

**DATES**        1977 to present

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**    Extensive: Contact J. Boothroyd

**ACCESS**

**URL**

**PARAMETERS\_MEASURED**    Bch prfiles msred perpend to shrelne & shw cross-sectional vw of beach. Profiles obtained via modified Emery technique.

**LOCATIONS**    Charlestown beach CHA-EZ & CHA-05; Andrea Hotel Misquamicut MSQ-AN; Fire Dstrct Beach Misquamicut MSQ-FD; S. Kingstown Town Beach SK-TB

**NOTES****CONTACT**

Dr. Jon C. Boothroyd  
URI Depart of Geosciences  
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**INSTITUTION**      **URI Depart of Nat Resources Science, RIDEM**

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**PROGRAM**    Salt Marsh Restoration Monitoring at Galilee Bird Sanct

**PURPOSE**    Assess the effect of re-establishment of full tidal flow on biotic & abiotic components of the GBS coastal ecosystem & to gauge restoration success.

**SYSTEM**      Fauna, Flora

**INTERVAL**    Contact F. Golet for details

**DATES**        1992-1997

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**    Pilot studies to insure min nece sample size

**ACCESS****URL**

**PARAMETERS\_MEASURED**    Tide levels, groundwater levels, soil-water salinity, emergent & woody vegetation, percentage cover of submerged aquatic vegetation, fish, salmarsh snail, breeding songbirds, waterbirds, saltmarsh sharp-tailed sparrow (Contact F. Golet for add'tl details)

**LOCATIONS**    Galilee Bird Sanctuary & Bluff Hill Cove

**NOTES**

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**CONTACT**

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fgswamps@uri.edu

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**INSTITUTION**      **URI Grad School of Oceanography**

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**PROGRAM**    Benthic Infauna in Narragansett Bay

**PURPOSE**    Observe long-term changes in the depositional benthic community of Narragansett Bay

**SYSTEM**      Fauna

**INTERVAL**    Every June

**DATES**        1999-present

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**    See MERL Manual

**ACCESS**

**URL**

**PARAMETERS\_MEASURED**    15 cores collected, 0-2 cm and 2-10 cm horizons on 300 micron & 500 micron mesh; nematodes msred on 0-2 cm horizon w/ 38 micron mesh; See MERL manua

**LOCATIONS**    MERL Station 1 north of Jamestown

**NOTES**        Program to be continued for indefinite future with state support.

**CONTACT**

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coviatt@gso.uri.edu

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**INSTITUTION**      **URI Grad School of Oceanography**

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**PROGRAM**    Quonochontaug Pond Fellowship/Salt Pond Rsch Fllwshp

**PURPOSE**    Conduct baseline & monitoring studies of circulation in Ninigret, Quonochontaug, & Winnapaug Ponds

**SYSTEM**      Water

**INTERVAL**    Twice per yr; more often if dredging occurs

**DATES**        1999-2003 definitely

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**

**ACCESS**    Avail on Web

**URL**    <http://espo.gso.uri.edu/~kford/sp>

**PARAMETERS\_MEASURED**    Salinity changes; possibly bathymetric surveys

**LOCATIONS**    Quonochontaug mainly; expand to Winnapaug/Ninigret if funding avai

**NOTES**        Sediment cores are being examined for changes associated w/ major storm events (hurricanes).

**CONTACT**

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**INSTITUTION**      **URI Grad School of Oceanography**

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**PROGRAM**    Quonochontaug Pond Fllwshp/Salt Pond Rsch Fllwshp  
**PURPOSE**    Conduct baseline & monitoring studies of habitat in Ninigret, Quonochontaug, & Winnapaug Ponds  
**SYSTEM**      Fauna  
**INTERVAL**    O2 in summ. Shllfsh evry 1-2 yrs. WF evry yr.  
**DATES**        1999-2003 definitely  
**DATA\_FORMAT**    Digital Spreadsheet  
**QUALITY\_CONTROL**  
**ACCESS**    Avail on Web  
**URL**    <http://espo.gso.uri.edu/~kford/sp>  
**PARAMETERS\_MEASURED**    Oxygen; shellfish (quadrats); winter flounder  
**LOCATIONS**    Quonochontaug mainly; expand to Winnapaug/Ninigret if funding is available  
**NOTES**    Sediment cores are being examined for changes associated w/ major storm events (hurricanes).

**CONTACT**

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**INSTITUTION**      **URI Grad School of Oceanography**

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**PROGRAM**    Water Column Nutrients  
**PURPOSE**    Observe long-term changes in chlorophyll, ammonia, nitrite, nitrate, phosphate, & silicate.  
**SYSTEM**      Water  
**INTERVAL**    Weekly  
**DATES**        Fall 1976 to present  
**DATA\_FORMAT**    Digital Database  
**QUALITY\_CONTROL**    See MERL Manual 3rd edition, 1994  
**ACCESS**    Available  
**URL**    None  
**PARAMETERS\_MEASURED**    All methods, precision, accuracy, & quality control summarized in MERL Manual, 3rd edition, 1994  
**LOCATIONS**    GSO dock  
**NOTES**

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**INSTITUTION**      **URI-GSO**

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**PROGRAM** Narragansett Bay Phytoplankton  
**PURPOSE** Weekly monitoring of phytoplankton diversity in Narra. Bay at 1 station near Fox Island  
**SYSTEM** Water, Flora  
**INTERVAL** Weekly  
**DATES** 1950s; few gaps; continuous  
**DATA\_FORMAT** Digital Spreadsheet  
**QUALITY\_CONTROL** Faculty supervision of Graduate Research Assistant  
**ACCESS** Prior to 1999 not yet freely available  
**URL** <http://www.gso.uri.edu/phytoplankton>  
**PARAMETERS\_MEASURED** >20 micrometer phytoplankton species; size-fractionated chlorophyll  
**LOCATIONS** Coastal Institute, URI-GSO  
**NOTES** data prior to 1999 partially available in publications by T.J. Smayda & students or P.E. Hargraves & students. Supported by state assistantship to URI/GSO

**CONTACT**

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**INSTITUTION**      **US Fish & Wildlife, URI**

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**PROGRAM** Monitoring Avian Productivity & Survivorship  
**PURPOSE** Monitor species composition & population dynamics of breeding birds  
**SYSTEM** Fauna  
**INTERVAL** 7 banding sessions/yr drng (Jun-Aug)  
**DATES** 1991-2000  
**DATA\_FORMAT** Digital Spreadsheet  
**QUALITY\_CONTROL** --  
**ACCESS** Available  
**URL** None  
**PARAMETERS\_MEASURED** Age/Sex ratios, species composition, morphological characs; used mist nets  
**LOCATIONS** Trustum Pond NWR, Ninigret NWR  
**NOTES** Eddleman started prgm. Paton took over. 2000 1st yr of data. Prob not to be restarted.

**CONTACT**

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--  
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**INSTITUTION** **USACE, New England District**

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**PROGRAM** DAMOS  
**PURPOSE** Disposal Area Monitoring System -monitors the environmental condition of open water dredged material disposal sites and adjacent areas from L.I. Sound to Maine.  
**SYSTEM** Water, Fauna  
**INTERVAL** Site specific  
**DATES** 1977-on-going  
**DATA\_FORMAT** Analog Report  
**QUALITY\_CONTROL** QA/QC Protocols in place

**CONTACT**

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.mil

**ACCESS** Reports available from COE, NED

**URL** <http://www.nae.usace.army.mil/environm/damos.html>

**PARAMETERS\_MEASURED** Variables measured are site specific but typically include sediment chemistry, sediment toxicity, benthic community structure and function, and tissue analysis for bioaccumulative chemicals of concern.

**LOCATIONS** Coastal sites from Maine to LI Sound

**NOTES** Damos sites are located at Rockland, Portland, and Cape Arundel Maine; Mass Bay, Cape Cod Bay, Buzzards Bay Mass. New London, Central and Western LI Sound. A new proposed site is located off the RI coast east of Block Island.

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**INSTITUTION** **USDA/APHIS**

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**PROGRAM** Cooperative Agricultural Pest Survey (CAPS)  
**PURPOSE** Detect introduced or exotic invasive species-plants, insects, inverts, pathogens, etc.  
**SYSTEM** Fauna  
**INTERVAL** Monitoring frequency depends on species of concern  
**DATES** 1982-on-going  
**DATA\_FORMAT** Digital Spreadsheet  
**QUALITY\_CONTROL** no  
**ACCESS** NAPIS database, public access  
**URL** <http://www.ceris.purdue.edu/napis/>  
**PARAMETERS\_MEASURED** Exotic species identified via trapping and visual surveys  
**LOCATIONS** Statewide, County basis

**CONTACT**

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**NOTES** This monitoring program is designed to detect invasive, non-indigenous species throughout the state. Sample design is dependant on specific species of concern and is linked to the national PPQ program that determines which surveys should be conducted.

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**INSTITUTION**      **WHOI Sea Grant**

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**PROGRAM**    Intertidal Crabs on Rocky Shores

**PURPOSE**    To follow temporal trends in abundance (densities) of the Asian Shore Crab *H. sanguineus* & other crab spp, primarily mud crabs in family Xanthidae & green crabs (*C. maenas*)

**SYSTEM**      Fauna

**INTERVAL**    Spring (May-June) Fall (Sept-Oct)

**DATES**        Oct 1998 - fall 2001

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**    No formal techniques; on-site training

**ACCESS**      ?

**URL**          None

**PARAMETERS\_MEASURED**    # of crabs/2 m2 quadrat, 3-5 replicate quadrats sample at each smpling interval

**LOCATIONS**    Bristol RI by Mt. Hope Bridge

**NOTES**        Data will be assembled in a final project report to be submitted to WHOI Sea Grant after the funding ends in 2002. Article manuscript will also be prepared.

**CONTACT**

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**INSTITUTION**      **Wood Pawcatuck Watershed Association**

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**PROGRAM**    Pawcatuck Watershed Monitoring

**PURPOSE**    To track water quality changes and educate the public.

**SYSTEM**      Water

**INTERVAL**    Weekly, Biweekly, and Monthly in Spring and Summer

**DATES**        Began in 1998, still underway

**DATA\_FORMAT**    Digital Spreadsheet

**QUALITY\_CONTROL**    Standard procedures ...

**ACCESS**      Report is published annually

**URL**          <http://www.watershed.envstudies@Brown.edu>

**PARAMETERS\_MEASURED**    Dissolved Oxygen (LaMotte Kit), Temperature (thermometer), Stream Flow (pygmy flow meter), Nutrients (colorimetric), pH (electrometic), and Bacteria (direct enumeration mTEC).

**LOCATIONS**    3 sites Meadow Brook, 5 sites Beaver River, 3 sites Green Falls River, 5 sites Queen River

**NOTES**        The Wood Pawcatuck Watershed Association has also been monitoring the lakes and streams in the Wood Pawcatuck Watershed since 1988 as part of the URI Watershed Watch program ([uriww@etal.uri.edu](mailto:uriww@etal.uri.edu)).

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