Governor’s Comprehensive Plan of Action

• 10 point plan

• Number 9: Producing more Comprehensive Research
  – Support water quality improvement (nutrient criteria)
  – Establish the baseline conditions of the bay
  – Fill in critical data gaps
  – Advance habitat restoration on the Bay
Generic Estuarine Ecosystem

- Jellyfish
- Eel Grass
- Benthic Invertebrates
Status – September 2011

- Budget approval for $1.2M for FY12
- 10 Research Projects
- Contracting underway
- Projects start in October??
- Continue through summer/fall 2012
- Three years of research planned
Research Projects

1. Benthic Invertebrate Community Monitoring and Indicator Development for the Barnegat Bay-Little Egg Harbor Estuary (nutrient criteria)

2. Barnegat Bay Diatom Nutrient Inference Model (nutrient criteria)

3. Benthic-Pelagic Coupling: Hard Clams as Indicators of Suspended Particulates in the Barnegat Bay
Research Projects

4. Assessment of Fishes and Crabs Responses to Human Alteration of Barnegat Bay.

5. Assessment of the Distribution and Abundance of Stinging Sea Nettles (Jellyfishes) in Barnegat Bay

6. Baseline Characterization of Phytoplankton and Harmful Algal Blooms
Research Projects

7. Baseline Characterization of Zooplankton in Barnegat Bay

8. Multi-Trophic Level Modeling of Barnegat Bay

9. Tidal Freshwater and Salt Marsh Wetland Studies of Changing Ecological Function and Adaptation Strategies

10. Ecological Evaluation of Sedge Island Marine Conservation Area in Barnegat Bay
# BARNEGAT BAY COMPREHENSIVE RESEARCH - OBJECTIVES

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Coordination


- USEPA, USGS, Ocean County College, State Universities

- NJ DEP Programs
Change in Barnegat Bay Land Use at Forked River and Oyster Creek (1931 and 2011)
Barnegat Bay Sampling Segments for Bottom Invertebrates (e.g., worms, crabs)
A Selected Bibliography of Ecological and Land Use Studies of Barnegat Bay

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Bibliography by year - please click here | Bibliography by category - please click here.

Alphabetical order by first author

Blue text indicates a DEP link - Green text indicates that this link will be leaving the DEP web site.


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