Fish Habitat & Forage Projects

NCBO Funded Projects:

- Quantifying habitat suitability for forage fishes in Chesapeake Bay: A coupled modeling approach using fishery surveys and a hydrodynamic model (VIMS)
- Examining the movement ecology and habitat utilization of black sea bass using telemetry techniques (Coonamessett Farm Foundation)
- Habitat Utilization & Ecosystem Connectivity in the Southern Mid-Atlantic Bight (VIMS)
- Characterization of Nursery Habitats Used by Black Sea Bass and Summer Flounder in Chesapeake Bay and the Coastal Lagoons (VIMS)
- Value of Shallow Tributary Habitats of the Upper Chesapeake Bay to Summer Flounder (SERC)
- Integrative assessment of the quality of shallow tributary forage habitats for striped bass (SERC)

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Related Projects and Efforts:

- Establishing a Chesapeake Bay mainstem acoustic telemetry receiver array for tracking species movements (UMCES, SERC, NCBO, MDDNR, VMRC)
- Population modeling to explore effects of the environment on Chesapeake Bay species (UMCES, VIMS)
- Pilot a cost effective, real-time dissolved oxygen vertical monitoring system for characterizing mainstem Chesapeake Bay hypoxia (Caribbean Wind)
- Short-term hypoxia forecasts for Chesapeake Bay (VIMS, AnchorQEA) and Seasonal hypoxia forecasts (UMCES)
- 3-D Chesapeake Bay interpolator data product (CBP GIS team)
- Forage & climate indicators (FAT, CRWG)
- Developed and natural shoreline thresholds (CBP GIS team)
- Striped bass nursery habitat assessment (VIMS)

What connections should be made between projects?

What are the opportunities for synthesis or end products?

- Indicators and thresholds
- Habitat assessment and maps
- Ecosystem status reports
  (Linking habitat and WQ status,
  trends, fish response)