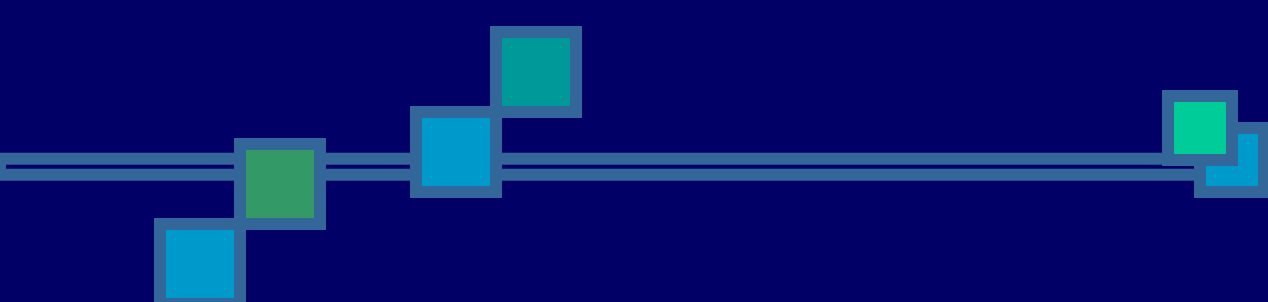


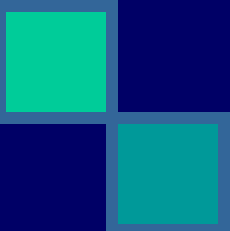
APNEP Indicators Progress

- Draft indicator framework by STAC Ad-Hoc Committee
- Indicator framework and proposed indicators from two-day STAC indicator workshop
- Crosswalk with Heinz Center indicators
- Atlantic Slope Consortium, Atlantic Coast Environmental Indicators Consortium, and Chesapeake Bay Indicators
- EPA Indicator Development for Estuaries
- APNEP's Indicator Steering Committee





STAC Indicators Framework

- 
- Indicator Definition
 - Audience
 - Criteria for Indicator Selection
 - Indicator Framework
 - Process
 - Timeline
- 

APNEP Indicator Definition

“A **numerical value** derived from actual measurements of a pressure, state or ambient condition, exposure, ecological condition, or measure of human health or wellbeing over a specified **geographic domain**, whose trends over time represent or draw attention to underlying **trends** in the condition of the environment in the A-P region.”

APNEP Indicator Audience & Utility

- Audience
 - Public
 - Decision makers & policy makers
 - Managers
 - Scientists
- Utility
 - Measure the success of APNEP management programs at meeting program goals
 - Identify and fill knowledge gaps, including information needed to establish a science-based rationale for management actions
 - Improve management of the natural and human resources of the region
 - Build constituencies for enhanced management success
 - Communicate key information about the condition of the A-P ecosystem to each audience



STAC Indicator Strategy: Ecosystem Components

- **Terrestrial Habitats**, including landscape form and function, landscape processes, land use and change, land / water interface, plant communities, sediment, and soils
- **Air Quality and Atmospheric Processes**, including carbon storage
- **Wetland Habitats**, including vegetative communities and habitat needs for migratory and wide-ranging birds and mammals, as well as hydrologic function
- **Water Quality and Hydrology**, including groundwater
- **Living Aquatic Resources**, including fisheries
- **Human Needs** such as coastal communities, culture, tourism, including health and well-being; food, fiber and energy production and economics

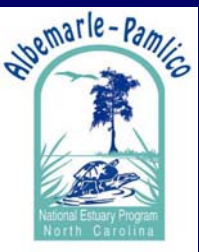
STAC Indicator Strategy: Assessment Units I

- Currituck Sound and environs (including Back Bay, Northwest River and North Landing River)
- Eastern Albemarle Sound (including North, Pasquotank, Little and Perquimans Rivers, Alligator and Scuppernong Rivers)
- Western Albemarle Sound (including Edenton Bay and tributaries and McKay's Creek)
- Roanoke River
- Chowan River
- Roanoke and Croatan Sounds
- Pamlico Sound (could be segmented into northern and southern basins, with Bay River in southern)
- A-P peninsular interior



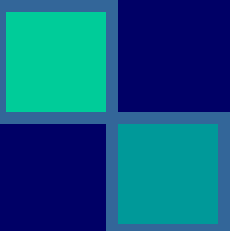
STAC Indicator Strategy: Assessment Units II

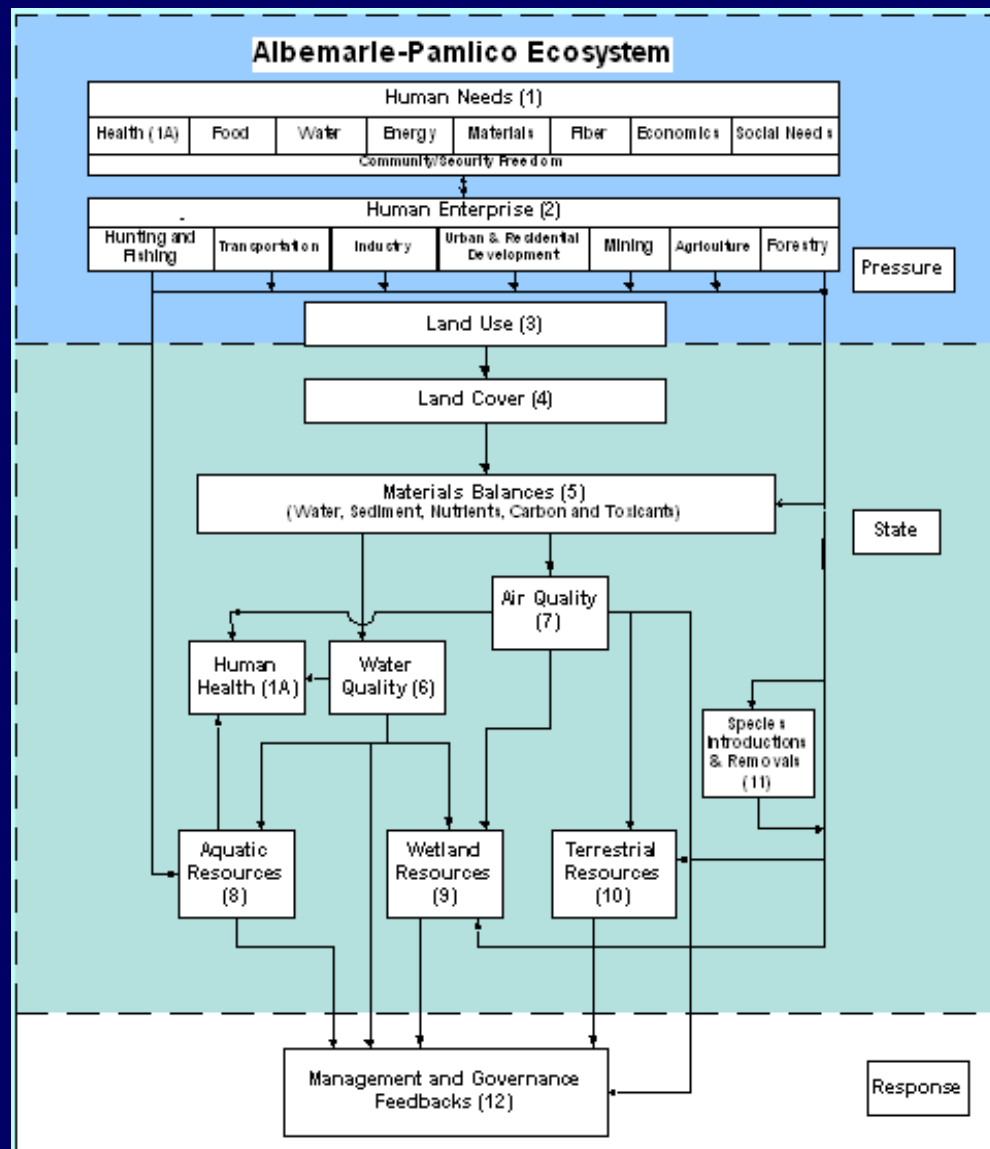
- Tar-Pamlico River (including Pungo River)
- Neuse River
- Pamlico-Neuse peninsular interior
- Core Sound
- Bogue Sound (including North River and Newport River)
- White Oak River (including the Croatan interior)
- Barrier islands
- Near coastal ocean (could be segmented into north-central-south)

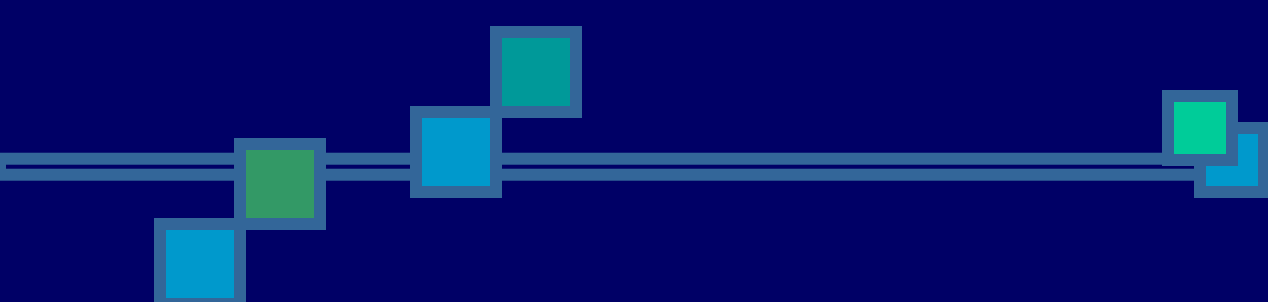




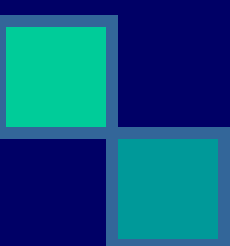
EPA Indicator Development for Estuaries

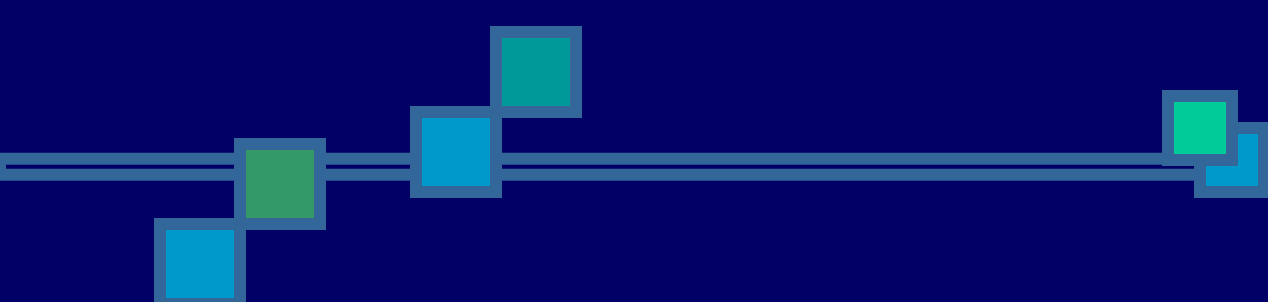
- 
- Program Planning
 - Conceptual Model Development
 - Indicator Specification
 - Monitoring Program Development
 - Implementation
 - Reassessment
- 





STAC Indicator Teams

- 
- Air Quality & Atmospheric Processes
 - Living Aquatic Resources
 - Social
 - Terrestrial
 - Water Quality & Hydrology
 - Wetlands
- 



APNEP Indicator Steering Committee

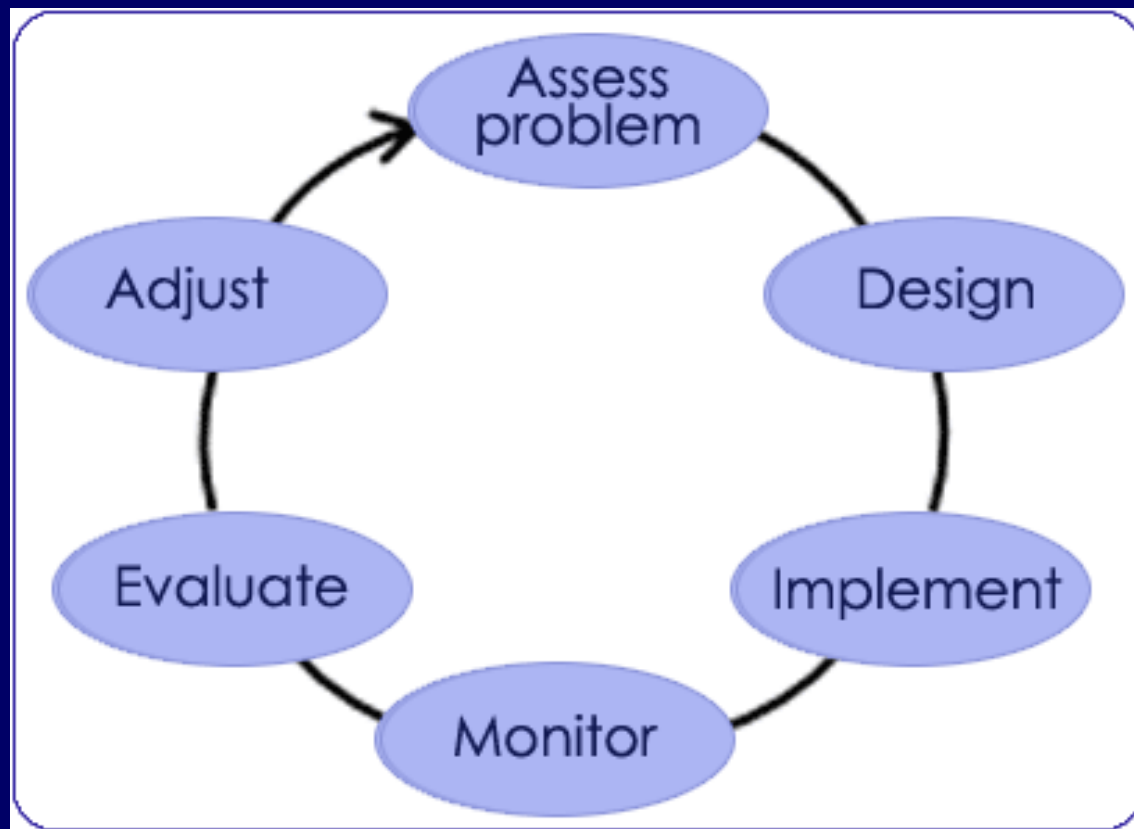
- Purpose

- Effective ISC = easier to establish indicators and obtain desired outcome at end of process
 - Active & balanced involvement throughout, earlier the better
- 

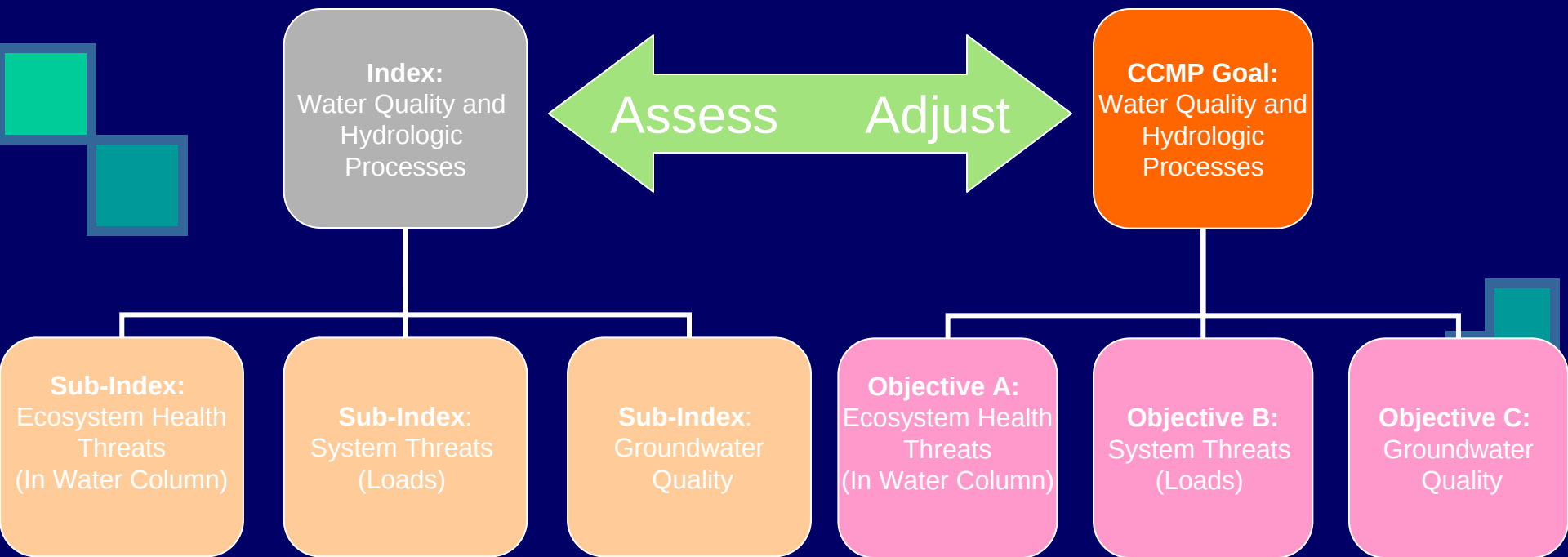
- Committee Beginnings 2006

- August 22 (Washington)
- September 12 (Teleconference)
- October 10 (Raleigh)
- November 8 (All-Hands)

APNEP CCMP 2007 - ?: A New Paradigm of *Adaptive* Ecosystem Management



An Integrated Framework



Indicators

Framework

CCMP

Framework

