

DEPARTMENT OF NATURAL RESOURCES

CBNERR-MD is a NERRS sentinel site!

Sentinel Site Program:

inundation on coastal habitats

Network priorities (e.g., partners).

collecting relevant information.

issue in a similar way

The National Estuarine Research Reserve System

Primary focus: Monitoring and assessing the impacts of sea level/lake level change and

Sentinel Site: A reserve with essential infrastructure and programmatic support for monitoring and

Sentinel Site Network: A group of reserves collecting information to address the same management

· Sentinel Site Program: Collective assets and efforts that support and guide Sentinel Site or Sentinel

A Sentinel Site for Climate Change: Understanding Vulnerability to Sea Level Rise The Maryland Chesapeake Bay National Estuarine Research Reserve

Patricia Delgado, Lindsay Carroll, and Heather Baden

Chesapeake Bay National Estuarine Research Reserve in Maryland, Maryland Department of Natural Resources 580 Taylor Avenue, Annapolis, MD 21401

Main Objectives CBNERR-MD Sentinel Site:

· Better inform decision-making by the coastal management community.

Assist in developing science-based strategies for adaptation.

. Understand the vulnerability of coastal resources to climate change impacts.

Core Elements of a Sentinel Site:

- Identification of appropriate audiences and management issues
 Establishment of programmatic capacity (e.g., training)
- Establishment of programmatic capacity (e.g., training)
- Tidal marsh, mangrove, or submerged aquatic vegetation monitoring
- Wetland elevation change measurements
- Local geodetic control network
- Ability to detect elevation changes
- Groundwater measurements
- Water quality data
- Meteorological data
 Data synthesis and translation



