

Wells National Estuarine Research Reserve



The National Estuarine Research Reserve System (NERRS) is considered part of the national backbone of IOOS as a critical provider of data on the nation's estuarine and coastal habitats.

The Wells NERR in Maine, for example, provides detailed hydrologic records, which has allowed NERR staff to determine long-term average conditions for tidal flooding and extreme conditions associated with storm surges, heavy rainfall, and drought. Ultimately, these records enabled the community to calibrate a hydraulic model of marsh flooding, which was used to determine the appropriate type and size for a replacement culvert.



The Wells NERR also installed the first station of its kind that produces detailed tide, water level, and weather data that are sent via telemetry over a NOAA GOES satellite. This collaboration between Wells NERR and NOAA's Center for Operational Oceanographic Products and Services (CO-OPS) enables multiple data sets to automatically link.

The Northeast region is home to four reserves: the Great Bay Reserve in New Hampshire, the Narragansett Bay Reserve in Rhode Island, the Waquoit Bay Reserve in Massachusetts, and the Wells Reserve in Maine.



For more information:

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