Ocean Mapping Data Team (OMDT)
Progress Report: July - December 2020

ACTIVITY 1

Update existing maps on the Portal to keep them current and ensure they reflect the latest available data.

The following is a sample of the maps/datasets that were updated to reflect the latest data in the July-December 2020 reporting period:

- Individual layers depicting three Coast Guard Port Access Route Study (PARS) areas in the region were combined with a new one for the Northern New York Bight PARS to form a single map layer. The previous PARS layers were for the New Jersey Seacoast/Delaware Bay approaches; the approaches to the Chesapeake Bay; and the North Carolina Seacoast, including the approaches to the Cape Fear River and Beaufort Inlet. Those individual maps have been retired.
- No longer in the "proposed" stage, the USCG Lower Chesapeake Bay Anchorages layer was changed to become a companion layer that automatically activates when the Anchorage Areas layer is turned on. When the federal service for the Anchorage Areas is updated to include these new zones, the companion layer will be retired.
- The Average Annual Wind Speed layer was replaced with a new version from the National Renewable Energy Laboratory based on more recent data.
- The NCEI TopoGraphic/Bathymetric Mosaic and Okeanos Explorer Bathymetry layers were updated to point to newer federal services.

ACTIVITY 2

Add new data/maps to the Portal.

The following is a sample of the maps/datasets added in the July-December reporting period:

- Virginia Offshore Wind Turbine Locations
- Coastal Zone Management Act Boundary
- Hurricane Tracks Since 1980 in the North Atlantic Slider
- Hurricane Tracks Since 1980 in the North Atlantic
- Tropical Cyclone Wind Exposure (North Atlantic, 1900-2016)
- Monthly Offshore Wind Speed Slider
- Potential Fairways
- Port Access Route Study (PARS) Areas
- An Ocean Stories profile of a charter boat captain in New Jersey was created

ACTIVITY 3

Add new or update existing tools to ensure the Portal is user friendly and best accommodates users' work needs.

The following is a sample of the tool and site enhancements made in the July-December 2020 reporting period:

- The Portal's technology stack was updated from OpenLayers 2 to OpenLayers 6, a change that will boost the site's performance, security and unlock the potential for new tools/capabilities. Work is now being conducted to rebuild custom tools from the old site to make them compatible with the current version.
- The Portal was migrated from a WebFaction to an Amazon Web Services server in conjunction with the OpenLayers conversion.
- The Portal's zoom level was increased, enabling users to view close range nautical charts such as those for inland bays and rivers.

ACTIVITY 4

Conduct public outreach, demonstrations and trainings to build awareness of the Portal and its features.

The following is a sample of the outreach conducted during the July-December 2020 reporting period:

- Three Mid-Atlantic/Northeast Portal training sessions for the staffs of offshore wind organizations
- Portal demo for a University of Maryland Center for Environmental Science oceanography class
- September 15 Intro to the Portal How Tuesday webinar (recording posted)
- Tutorial for Monmouth University marine GIS class
- October 8: MACO/Coast Guard navigation safety and PARS webinar (recording posted)
- New York GIS Association demo