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Special Session: DSCS Geospatial data access and Decision-Support tools for Coastal Systems

Detenbeck[1], N.E., T. Plessel[2], and M. ten Brink[1]. Estuary Data Mapper: A stand-alone tool for geospatial data access, visualization and download for estuaries and coastal watersheds of the United States. [1] U.S. Environmental Protection Agency, Atlantic Ecology Division, 27 Tarzwell Drive, Narragansett, RI 02813, [2] Lockheed-Martin, US EPA Environmental Modeling and Visualization Laboratory, Research Triangle Park, NC.

The US EPA Estuary Data Mapper (EDM; http://badger.epa.gov/rsig/edm/index.html) has been designed as a free stand-alone tool for geospatial data discovery, visualization, and data download for estuaries and their associated watersheds in the conterminous United States. EDM requires only internet access for operation. Using EPA STORET, USGS NWIS, and NOAA web services Estuary Data Mapper provides ready access to environmental time series data such as water and sediment quality, freshwater discharge, and tides. Shapefiles accessible through EDM include estuarine boundaries and watersheds, USGS Seabed sediment quality sample points, National Wetlands Inventory (NWI), and STATSGO soil parameters. Available gridded data sets include NLCD and CCAP land-use, CMAQ and NADP nitrogen deposition, PRISM climate normals for precipitation and temperature, and projections for population density and percent impervious area. Outputs are available in open-source formats, including shapefiles, kml files, and ASCII grids. Users can select specific datasets for display and download or choose pre-packaged options designed to provide input to specific decision support tools and models.