Combined Bathymetry and Topography of the Puget Lowland, Washington State

About This Map:
The digital elevation model (DEM) used to generate this map represents a composite of the best-available bathymetry and topography for Puget Sound, Hood Canal, Lake Washington and the surrounding lowlands as of January 2005. The DEM was designed to address the needs of researchers and managers who need to consider the terrestrial and marine topography as a seamless whole. Example applications are hydrologic modeling, tidal and tsunami inundation mapping, inter-tidal mapping, etc.

Although a large percentage of the data is derived from state-of-the-art mapping systems collected as recently as 2004 (including laser altimetry and swath bathymetry) it was sometimes necessary to rely on very old datasets such as lead-line from the 1930's to complete the model. Care was taken to ensure that each dataset was properly projected, resampled and adjusted into a common vertical and horizontal datum (NAVD88 and NAD83 respectively). Obvious artifacts in the data were removed where this was easily done, and an effort was made to smooth the transition between datasets to minimize the number of spurious artifacts along data set margins.

Data Sources Reference

By
David Finlayson

This map and the digital elevation model used to build it are available free of charge at:

http://www.ocean.washington.edu/data/pugetsound/