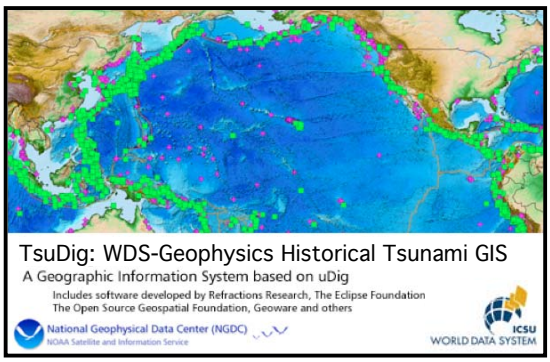
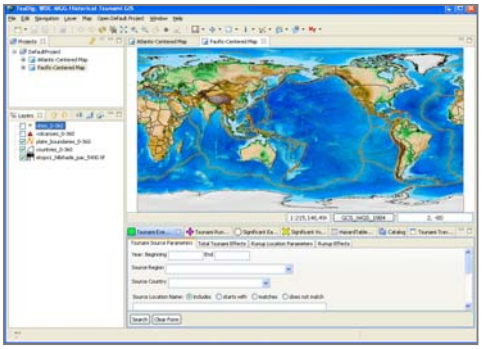


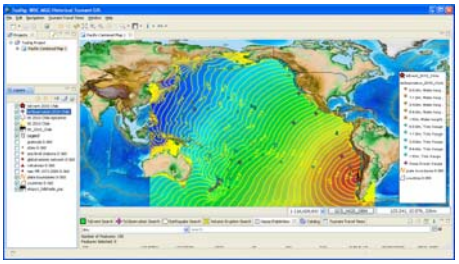
TsuDig
WDS-Geophysics Historical Tsunami GIS
version 1.1, August 2013

The World Data System for Geophysics (WDS-Geophysics), co-located at the NOAA National Geophysical Data Center (NGDC), maintains a historical hazard database of tsunamis, significant earthquakes, and volcanic eruptions from ancient times (2000 B.C.) to the present. The database includes >1,800 Tsunami Events (validity >0), >13,000 Tsunami Runups associated with Tsunami Events (validity >0), >5,000 Significant Earthquakes, and >500 Significant Volcanic Eruptions. In order to meet the needs of local authorities and tsunami warning centers from countries around the world, WDS-Geophysics and the UNESCO/IOC-NOAA International Tsunami Information Center (ITIC) developed a standalone GIS application to interact with a local copy of the historical hazards database. The software is based on uDig (User-friendly Desktop Internet GIS), an open-source GIS framework written in Java, which is built upon the well-established Eclipse Rich Client Platform (RCP). We have customized the behavior of uDig by developing plugins that allow the user to query the database using many different search parameters, and to display information about events on a map and in table format.



Features available within TsuDig include:

- Pacific-Centered, and Atlantic-centered maps with the following data Layers:
  - ETOPO1 topography/bathymetry
  - Major cities
  - Country boundaries
  - Volcano locations
  - Plate boundaries
  - Sea Level Network
  - Global Seismic Network
  - Historical earthquakes (magnitude 5+ from 1973-2009) from the USGS NEIC
- Customized searches of Tsunami Events and Observations, Earthquakes, and Volcanic Eruptions the WDS-Geophysics NGDC Historical Hazard database; the database is easily updated
- Tsunami Travel Times (TTT) calculation and display
- Customization of legend, symbols, and other display and plot styles
- Map export to PDF, PNG, JPG, or other formats
- Import of GIS layers



If you have questions about the database, please contact Paula Dunbar (paula.dunbar@noaa.gov) at NGDC. For general questions or software/CD copies, please contact Laura Kong (laura.kong@noaa.gov) at ITIC.