

Tsunami Sources Icosahedron Globe

August 2012 Edition

This globe of Earth shows the locations of historical tsunami sources, extracted from NGDC's Global Historical Tsunami Database (ngdc.noaa.gov/hazard). A tsunami is a series of traveling waves of extremely long length and period, usually generated by disturbances associated with earthquakes occurring below or near the ocean floor. Volcanic eruptions, submarine landslides and coastal rockfalls can also generate tsunamis as can a large meteorite impacting the ocean.

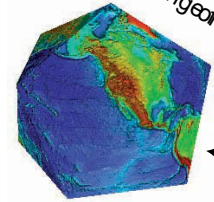
The underlying color shaded-relief image was generated from NGDC's ETOPO1 "Ice Surface" (ngdc.noaa.gov/mgg/global). ETOPO1 is a 1 arc-minute global relief model of Earth's surface that integrates land topography and ocean bathymetry. Bathymetry is largely from estimated sea-floor topography derived from sea-surface satellite altimetry measurements.

NOAA National Geophysical Data Center
World Data Center for Geophysics and Marine Geology
haz.info@noaa.gov
ngdc.noaa.gov/hazard

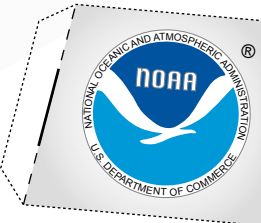
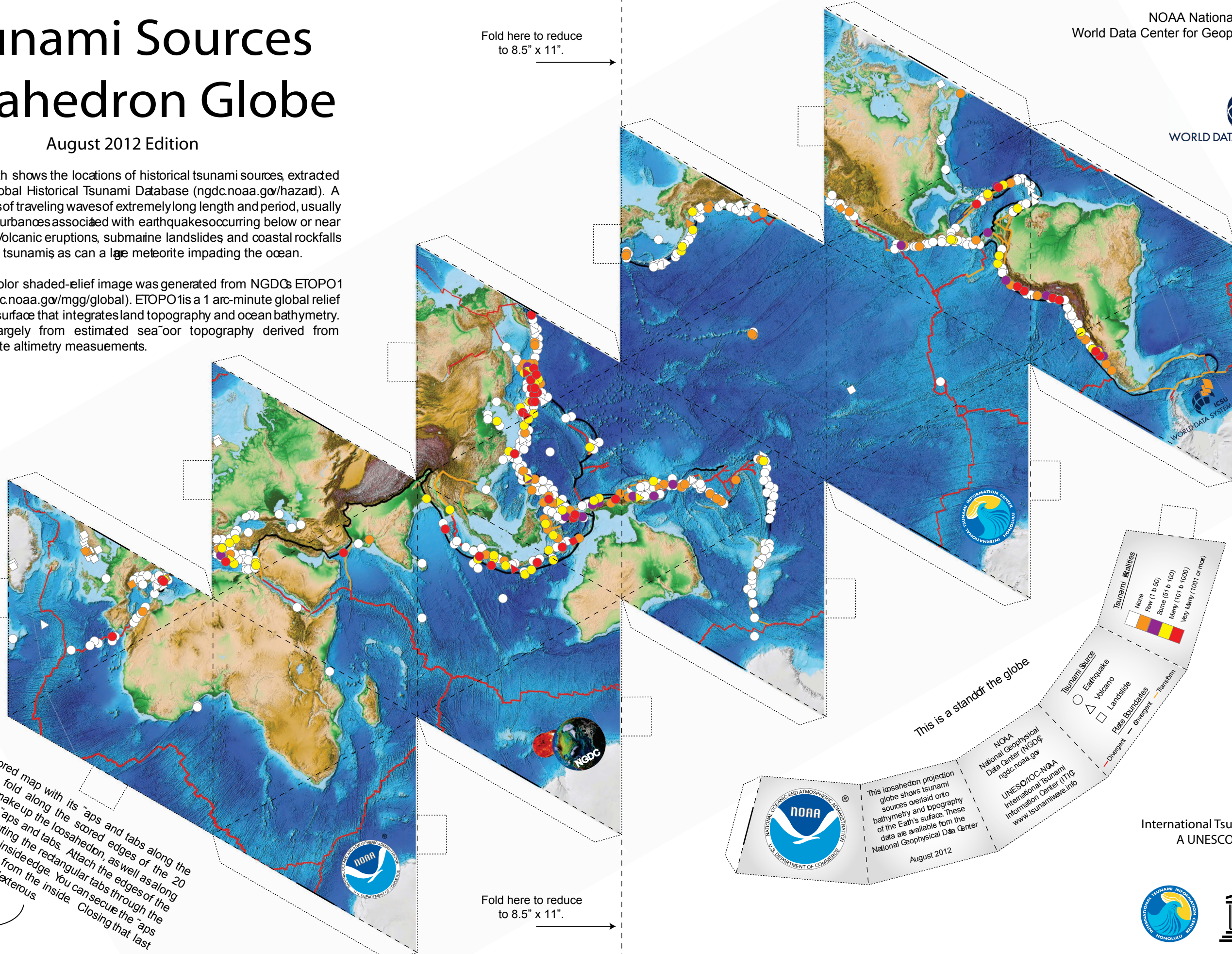


Fold here to reduce to 8.5" x 11".

Punch out the colored map with its tabs and tabs along the perforations. Lightly fold along the scored edges of the 20 triangular facets that make up the icosahedron, as well as along the inside edges of the tabs and tabs. Attach the edges of the adjacent triangles by inserting the rectangular tabs through the open slots along each tab's inside edge. You can secure the tabs and tabs with tape carefully from the inside. Closing that last triangle is a challenge of the dexterous.



Fold here to reduce to 8.5" x 11".



This icosahedron projection globe shows tsunami sources overlaid onto bathymetry and topography of the Earth's surface. These data are available from the National Geophysical Data Center

NOAA National Geophysical Data Center (NGDC) ngdc.noaa.gov
UNESCO/IOC-NOAA International Tsunami Information Center (ITIC) www.tsunamiwave.info

This is a standard globe.

Tsunami Realities

- None
- Few (1 to 50)
- Some (51 to 100)
- Many (101 to 1000)
- Very Many (1001 or more)

Tsunami Source

- Earthquake
- Volcano
- Landslide

Plate Boundaries

- Divergent
- Convergent
- Transform

International Tsunami Information Center
A UNESCO/IOC - NOAA Partnership
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www.tsunamiwave.info

