

NCEI (formerly NGDC)
 

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NGDC/WDS Global Historical Tsunami Database, 2100 BC to present



Maps showing tsunami events and tsunami runups and locations.

The Global Historical Tsunami Database provides information on over 2,400 tsunamis from 2100 BC to the present in the the Atlantic, Indian, and Pacific Oceans; and the Mediterranean and Caribbean Seas. The database includes two related files. The first file includes information on the tsunami source such as the date, time, and location of the source event; cause and validity of the source, tsunami magnitude and intensity; maximum water height; the total number of fatalities, injuries, houses destroyed, and houses damaged; and total damage estimate (in U.S. dollars). The second related file contains information on the runups (the locations where tsunami waves were observed by eyewitnesses, reconnaissance surveys, tide gauges, and deep-ocean sensors) such as name, location, arrival time, maximum water height and inundation distance, and socio-economic data (deaths, injuries, damage) for the specific runup location.

[Dataset Citation](#)

Cite as: National Geophysical Data Center / World Data Service (NGDC/WDS): Global Historical Tsunami Database. National Geophysical Data Center, NOAA. doi:10.7289/V5PN93H7 [access date]

[Dataset Identifier\(s\)](#)

Access

Documentation

Description

Credit

Coverage

Keywords

Constraints

Lineage

|                     |   |
|---------------------|---|
| Dataset Information | <a href="#">NGDC/WDS Global Historical Tsunami Database, 2100 BC to present</a><br>Information on tsunami events from 2100 BC to the present in the Atlantic, Indian, and Pacific Oceans; and the Mediterranean and Caribbean Seas.   |
| Search Data         | <div> <a href="#">Tsunami Event Database</a> <i>(search)</i><br/>           Provides information on the tsunami source including date, time, event location, magnitude of the phenomenon, maximum wave height, and socio-economic information such as the total number of fatalities and dollar damage estimates if available. If the tsunami source was an earthquake or volcanic eruption, it is flagged and linked to the related database.         </div> <div> <a href="#">Tsunami Runup Database</a> <i>(search)</i> </div> |

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|--------------------------|--|
|                          | <p>Provides information on locations where tsunami waves were observed by eyewitnesses, post-tsunami field surveys, tide gauges, or deep ocean sensors. Includes the maximum wave height, inundation distance, and number of fatalities or dollar damage estimates at the specific location if available.</p> <p><a href="#">Natural Hazards Map Viewer</a> (<i>search</i>)</p> <p>Tsunami source and runup locations, significant earthquake epicenters, significant volcanic eruption locations.</p> |
| Download Data            | <p><a href="#">Google Earth KML</a> (<i>download</i>)</p> <p>Tsunami source and runup locations, significant earthquake epicenters, significant volcanic eruption locations.</p>   |
| Distribution Formats     | <ul style="list-style-type: none"> <li>• ASCII</li> <li>• ArcGIS</li> </ul>  |
| Distributor              | <p>Hazards Data Manager</p> <p>DOC/NOAA/NESDIS/NCEI&gt; National Centers for Environmental Information, NESDIS, NOAA, U.S. Department of Commerce</p> <p><a href="mailto:haz.info@noaa.gov">haz.info@noaa.gov</a></p>  |
| Dataset Point of Contact | <p>Paula Dunbar</p> <p>DOC/NOAA/NESDIS/NCEI &gt; National Centers for Environmental Information, NESDIS, NOAA, U.S. Department of Commerce</p> <p>(303) 497-6084</p> <p><a href="mailto:Paula.Dunbar@noaa.gov">Paula.Dunbar@noaa.gov</a></p>   |

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