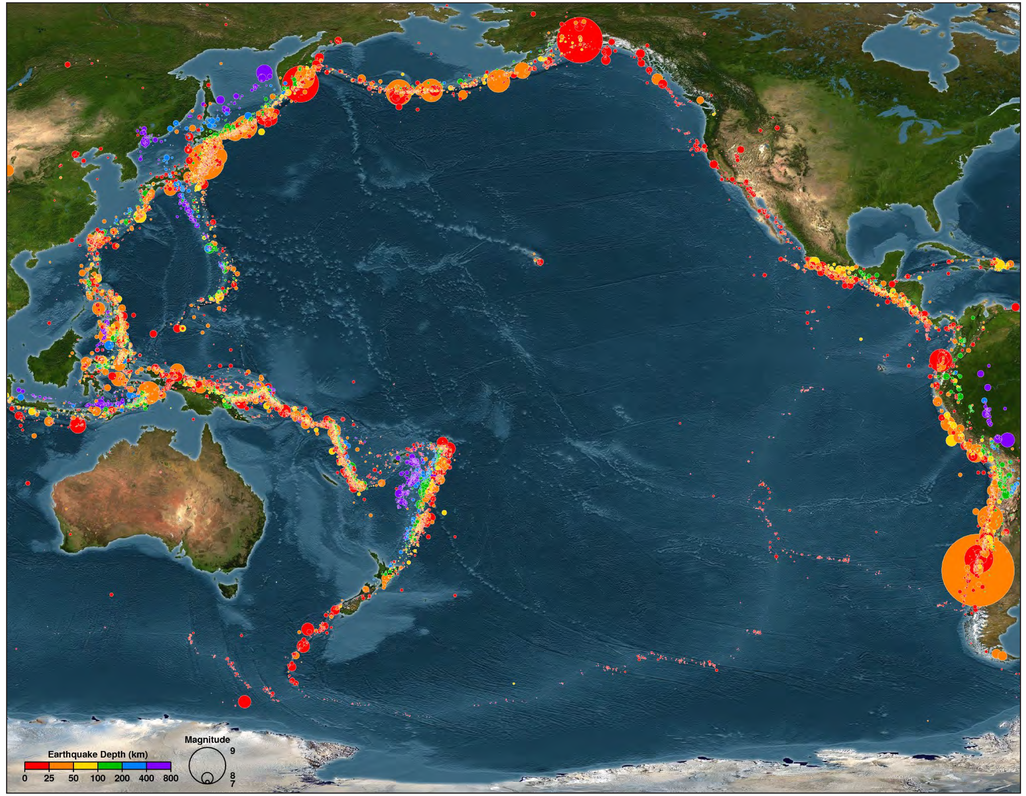
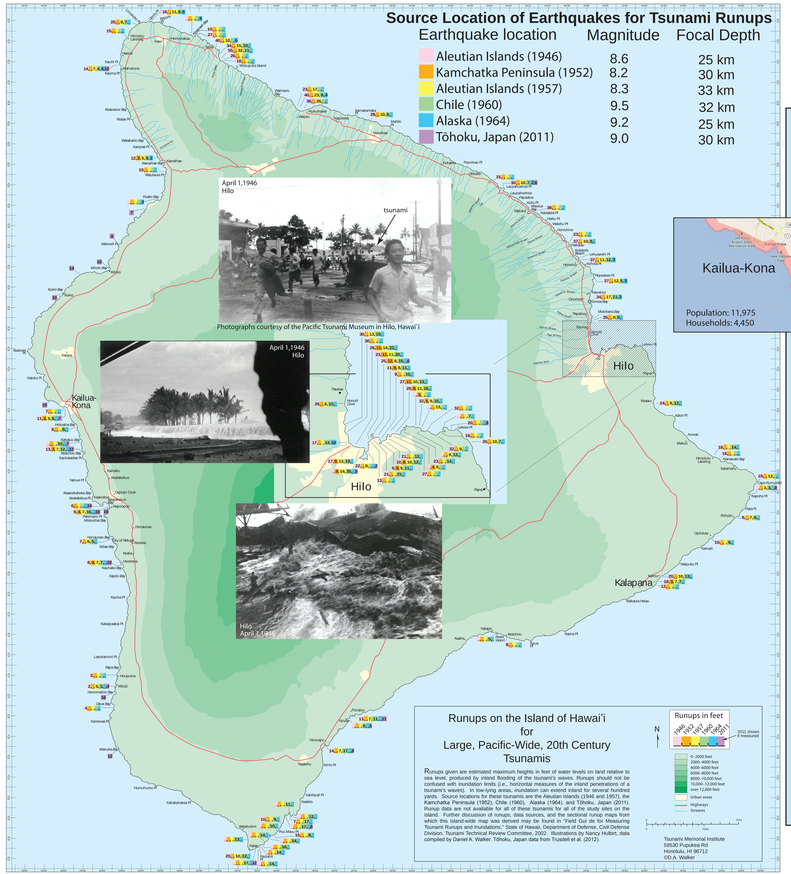
Locations of Historical Earthquakes in the Pacific Ocean Region

Map includes all earthquakes with magnitudes of 6.5 or greater from the years 1900 to 1963, and 5.5 or greater for 1964 to the beginning of June, 2013 . Shallower earthquakes are indicated by the "hot" colors on the scale in the lower left corner. Shallower earthquakes are usually more dangerous at a given magnitude. Earthquakes with depths <100 km normally do not generate tsunamis (data from US Geological Survey; map created by Nathan Becker of the NOAA Pacific Tsunami Warning Center).



Source Location of Earthquakes for Tsunami Runups

Earthquake location	Magnitude	Focal Depth
Aleutian Islands (1946)	8.6	25 km
Kamchatka Peninsula (1952)	8.2	30 km
Aleutian Islands (1957)	8.3	33 km
Chile (1960)	9.5	32 km
Alaska (1964)	9.2	25 km
Tōhoku, Japan (2011)	9.0	30 km



Tsunami Evacuation Zone for the Island of Hawai'i

Red lines outline the tsunami evacuation zone. Map shows all paved roads (data from Hawaii Statewide GIS Program in the State of Hawaii Office of Planning). Red areas in each inset map are tsunami evacuation zones.