







## INTERNATIONAL TSUNAMI INFORMATION CENTER

## LEARNING ACTIVITY: TSUNAMI EVENT CHRONOLOGY TSUNAMI WARNING TIMELINE: WHAT HAPPENS AND WHEN DOES IT HAPPEN?

During the occurrence and unfolding of a local tsunami event, reaction time is of the essence. Put the following activities in order of chronological occurrence from 1 to 25 for a local / regional tsunami scenario. Some activities may occur nearly simultaneously. Not all activities are listed. Assume power and communications are still operable after the strong earthquake.

Each i	major activity undertaken by government should be described by an SOP.
	Drop, Cover, and Hold (Protect yourself from earthquake shaking damage)
	Earthquake is detected by a seismic station
	Centroid Moment Tensor (Earthquake Mechanism) calculated (TSP, USGS, NTWC, other)
	Expected Tsunami Wave Height forecast using actual earthquake mechanism (TSP)
	National Press Conference
	Initial Magnitude calculated (Mwp, MJMA, ML, Mb)
	TSP issues initial threat message
	Search and rescue operations begin
	National Tsunami Warning Center (NTWC) cancels Tsunami Warning
	Deep-ocean instrument pressure sensor (DART or other) shows 2 cm signal
	Coastal sea level sensor(s) show 5 m zero to peak
	Expected Tsunami Arrival Times calculated (TSP, NTWC)
	Strong earthquake is felt
	DMO or Authority issues Evacuation order
	TSP issues final message
	Telephones at National TWFP/NTWC/DMO start ringing
	All-Clear issued allowing Public to return to tsunami evacuation zone
	Evacuation of coastal areas
	NTWC/DMO issues Tsunami Warning
	NTWC, TSP post-event evaluation
	Public moves quickly to higher ground (self-evacuates)
	Media disseminate Tsunami Warning Broadcast
	Sirens sounded
	TSP issues Enhanced Graphical Products
	Road clearing/debris removal begins
	Other – Please Specify