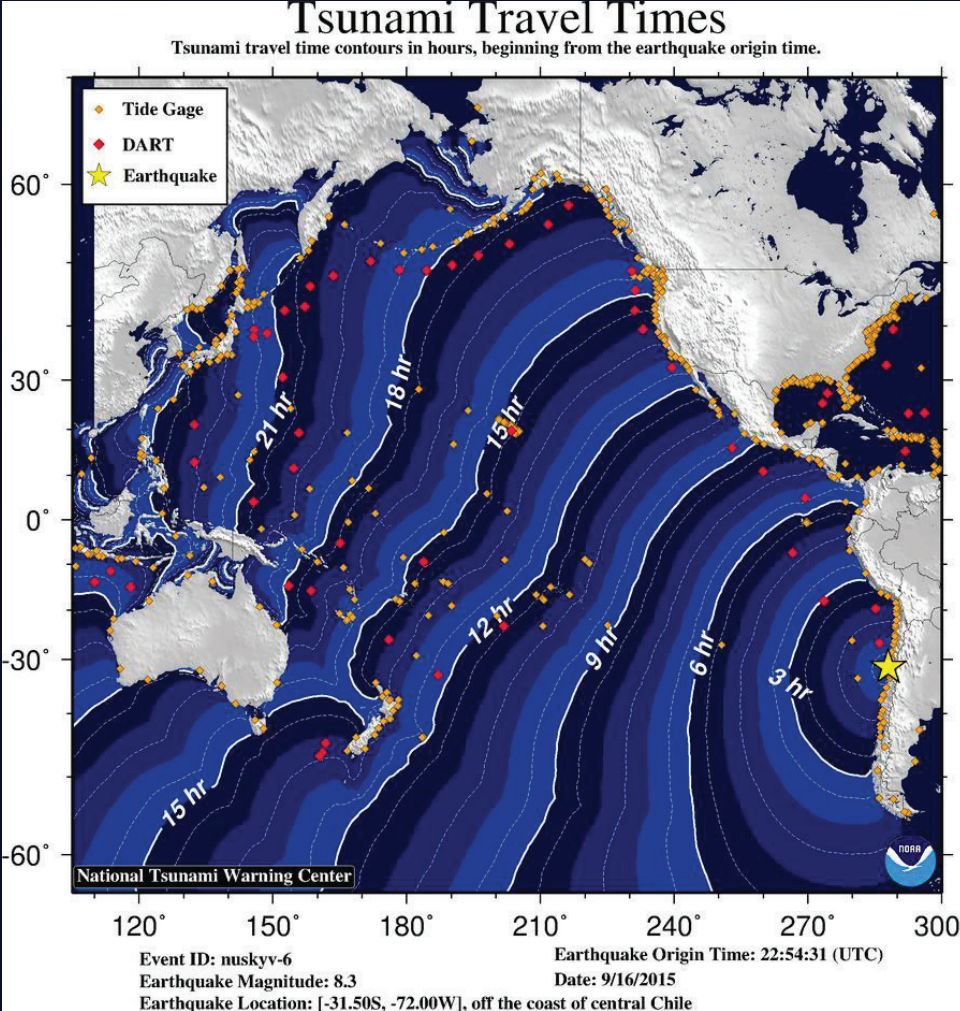
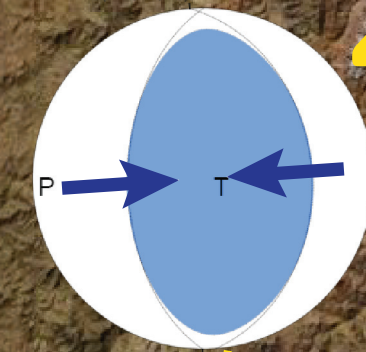
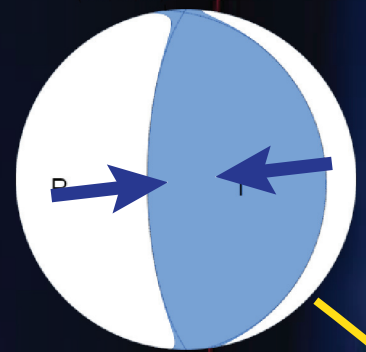
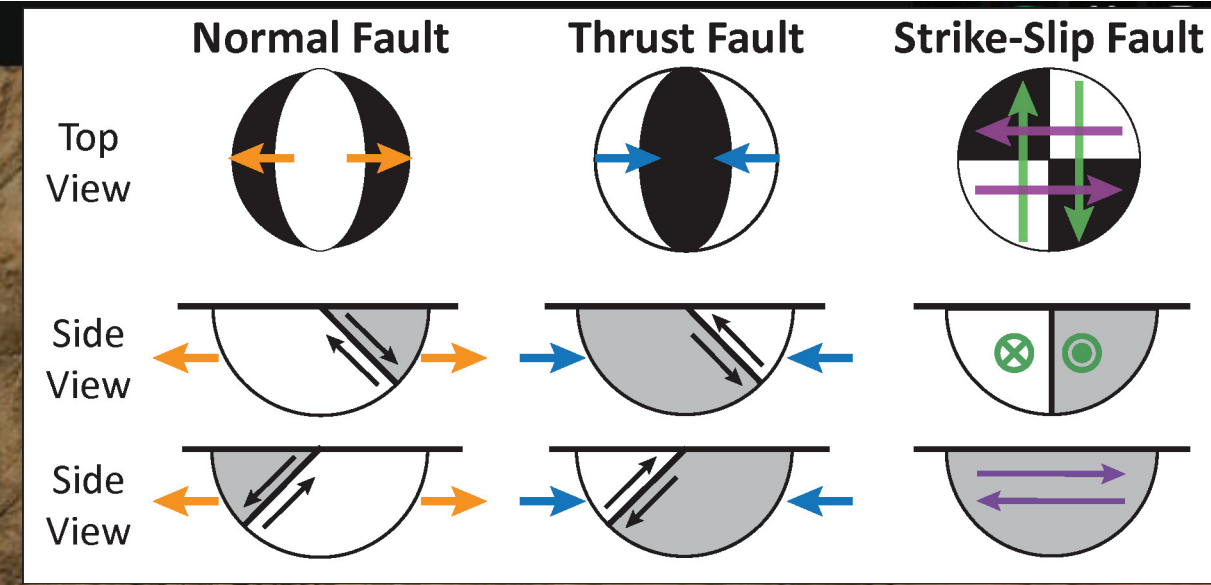


<http://wcatwc.arh.noaa.gov/events/PAAQ/2015/09/16/nuskyv/4/WEAK51/ttvunuskyv-04.jpg>



2015.09.16
M 8.3

2015.09.16
M 7.0

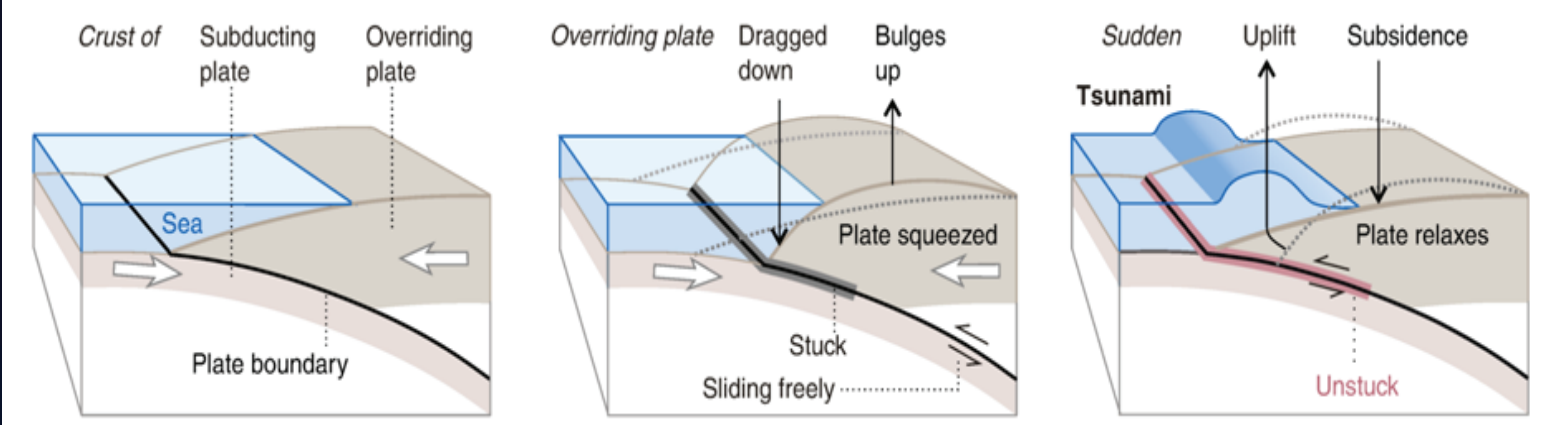


TSUNAMI OBSERVATIONS <http://wcatwc.arh.noaa.gov>

* THE FOLLOWING ARE TSUNAMI WAVE OBSERVATIONS FROM COASTAL AND/OR DEEP-OCEAN SEA LEVEL GAUGES AT THE INDICATED LOCATIONS. THE MAXIMUM TSUNAMI HEIGHT IS MEASURED WITH RESPECT TO THE NORMAL TIDE LEVEL.

GAUGE LOCATION	GAUGE COORDINATES LAT LOE	TIME OF MEASURE (UTC)	MAXIMUM TSUNAMI HEIGHT	WAVE PERIOD (MIN)
MATARANI PE	17.0S 72.1W	0103	0.14M/ 0.5FT	40
QUIRIQUINA CL	36.6S 73.1W	0249	0.83M/ 2.7FT	88
JUAN FERNANDEZ	33.6S 78.8W	0038	1.21M/ 4.0FT	08
TALCAHUANO CL	36.7S 73.1W	0253	1.30M/ 4.3FT	90
DART 32412	18.0S 86.3W	0146	0.05M/ 0.2FT	20
CALDERA CL	27.1S 70.8W	0258	0.98M/ 3.2FT	20
BUCALEMU CL	34.6S 72.0W	0246	0.76M/ 2.5FT	12
HUASCO CL	28.5S 71.2W	0106	0.77M/ 2.5FT	12
CALLAO LA-PUNTA PE	12.1S 77.2W	0231	0.20M/ 0.7FT	38
SAN FELIX CL	26.3S 80.1W	0051	0.69M/ 2.3FT	08
CONSTITUCION CL	35.4S 72.5W	0124	0.88M/ 2.9FT	60
CORRAL CL	39.9S 73.4W	0124	0.22M/ 0.7FT	34
TOCOPILLA CL	22.1S 70.2W	0046	0.12M/ 0.4FT	38
CHANARAL CL	26.4S 70.6W	0043	1.09M/ 3.6FT	30
TALTAL CL	25.4S 70.5W	0018	0.25M/ 0.8FT	38
DART 32401	20.5S 73.4W	0020	0.06M/ 0.2FT	48
VALPARAISO CL	33.0S 71.6W	2350	1.62M/ 5.3FT	40
COQUIMBO CL	30.0S 71.3W	2339	3.11M/10.2FT	20
SAN ANTONIO CL	33.6S 71.6W	2358	0.86M/ 2.8FT	18
DART 32402	26.7S 74.0W	2326	0.12M/ 0.4FT	36

MAKING A TSUNAMI Atwater et al., 2005; <http://pubs.usgs.gov/pp/pp1707/>



OVERALL, a tectonic plate descends, or "subducts," beneath an adjoining plate. But it does so in a stick-slip fashion.

BETWEEN EARTHQUAKES the plates slide freely at great depth, where hot and ductile. But at shallow depth, where cool and brittle, they stick together. Slowly squeezed, the overriding plate thickens.

DURING AN EARTHQUAKE the leading edge of the overriding plate breaks free, springing seaward and upward. Behind, the plate stretches; its surface falls. The vertical displacements set off a tsunami.

