

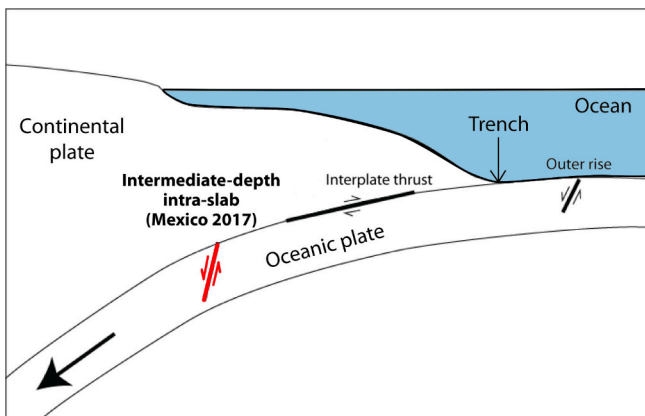
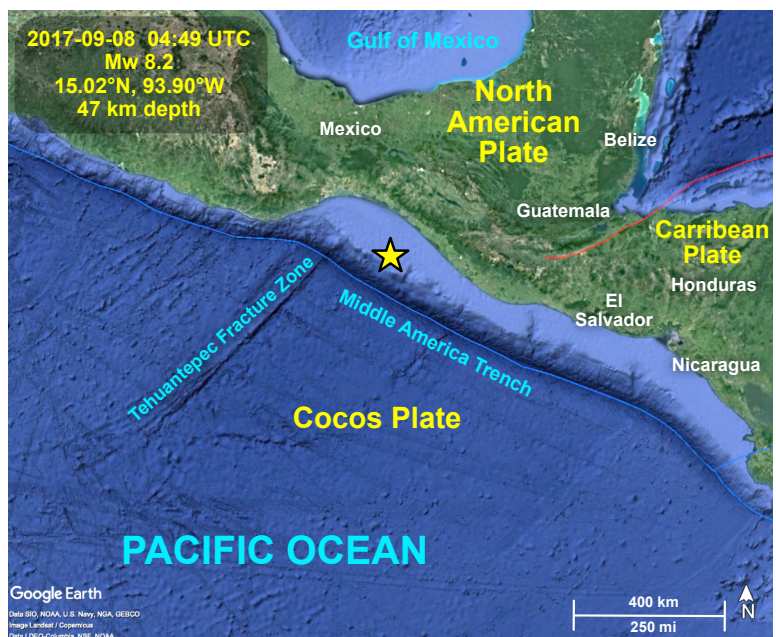
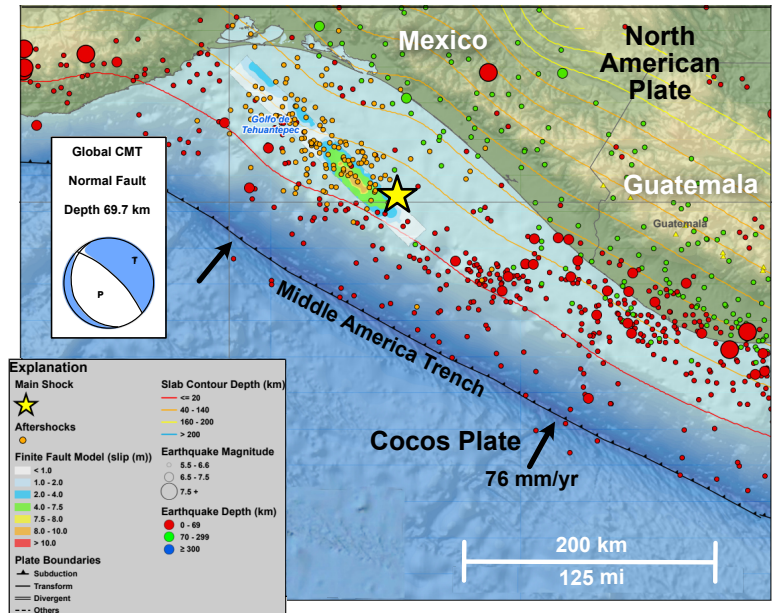


Offshore Chiapas, Mexico, 8 September 2017 04:49 (UTC) Mw 8.2

On 8 September 2017 at 04:49 UTC a tsunami was triggered by a Mw 8.2 earthquake that struck offshore Chiapas, Mexico. It was the largest earthquake in the Chiapas area since 1902. Tide gauge data showed 11.3 and 8.2 cm of coastal subsidence at Salina Cruz and Puerto Chiapas stations respectively. The maximum runup was ~3 m at Boca del Cielo, and maximum inundation distance was 190 m in Puerto Arista, corresponding to the coast directly opposite the rupture area (see map p.4).

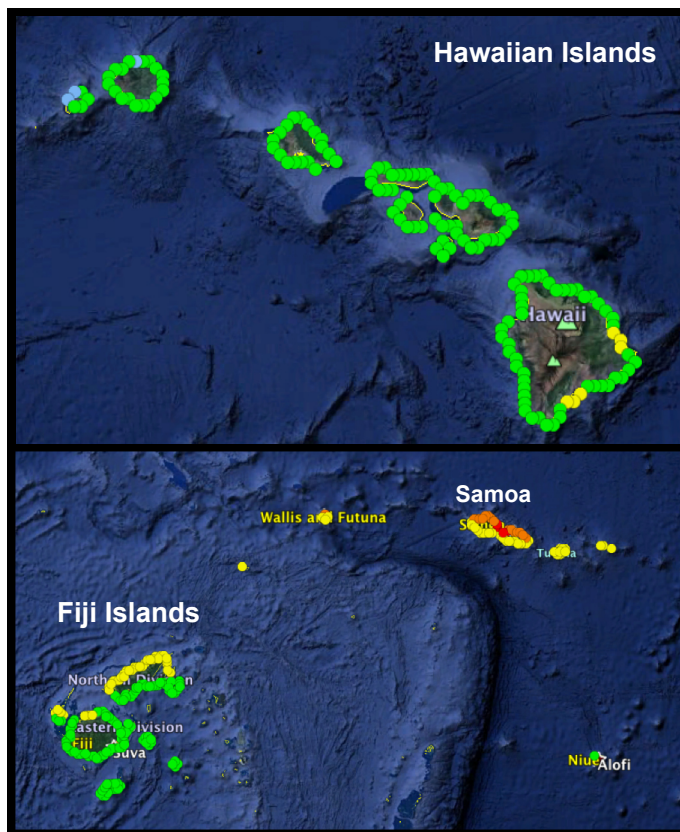
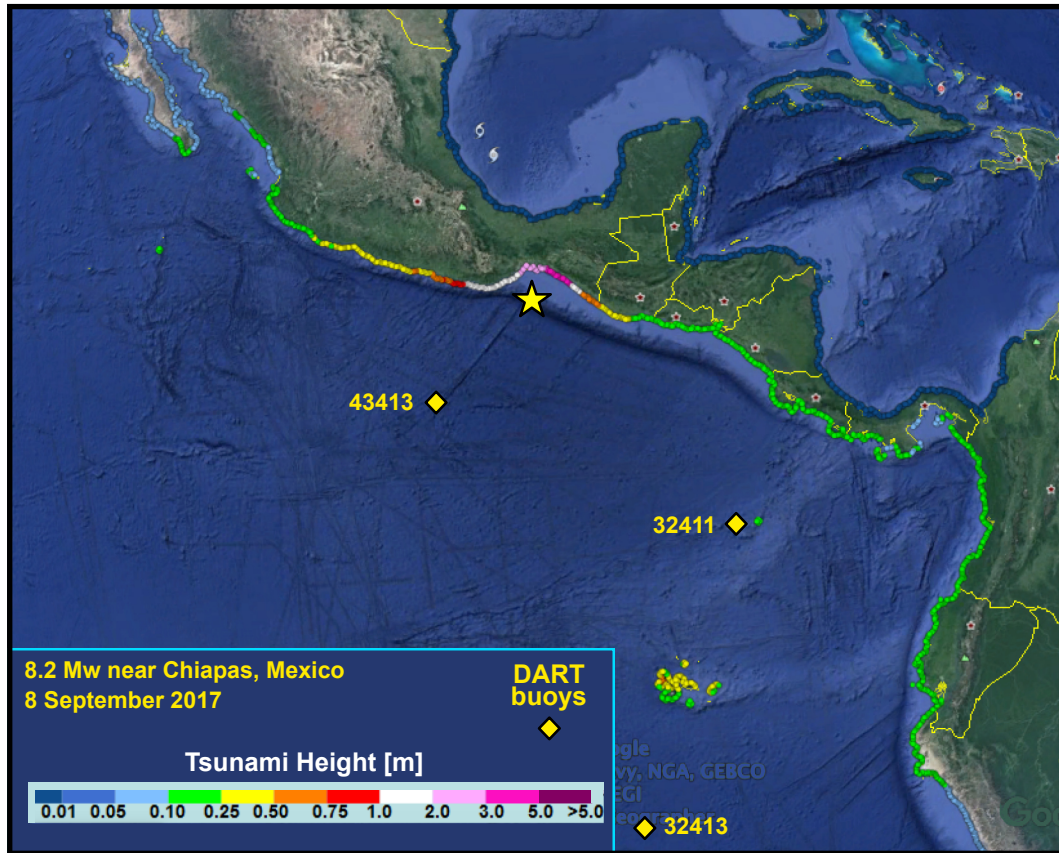
The earthquake occurred as the result of normal faulting at an intermediate depth of 47 km. At the location of this event, the Cocos plate converges with the North American plate in a northeast direction at a rate of approximately 76 mm/yr. The Cocos plate begins its subduction at the Middle America Trench, approximately 100 km to the southwest of this earthquake.

Although the epicenter and rupture zone of the earthquake were beneath the overriding North American continental plate, the depth and normal-faulting mechanism indicate that it was likely a rupture on an intraplate fault, within the subducting Cocos oceanic plate, rather than on the shallower interplate megathrust interface.

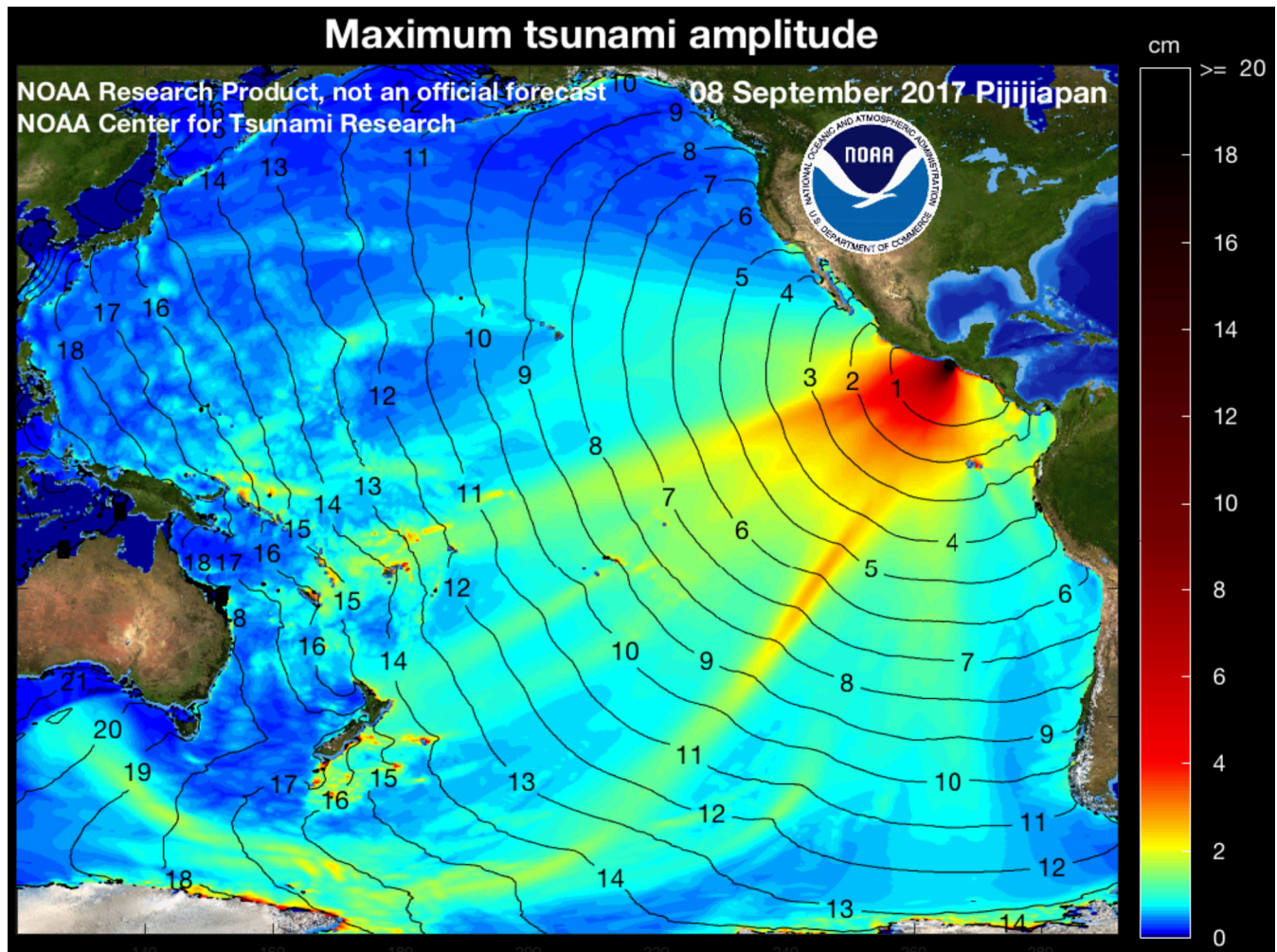


Top: Regional tectonics and seismicity Mw 5.5 or greater. The epicenter of the September 2017 Mw 8.2 earthquake is shown by the yellow star. **Bottom:** Geographic setting of the earthquake.

Coastal Amplitude Forecasts



Forecast coastal tsunami amplitudes from the PTWC Realtime Forecast of Tsunamis (RIFT) model. Sea level records from indicated DART buoys are shown on p.5.

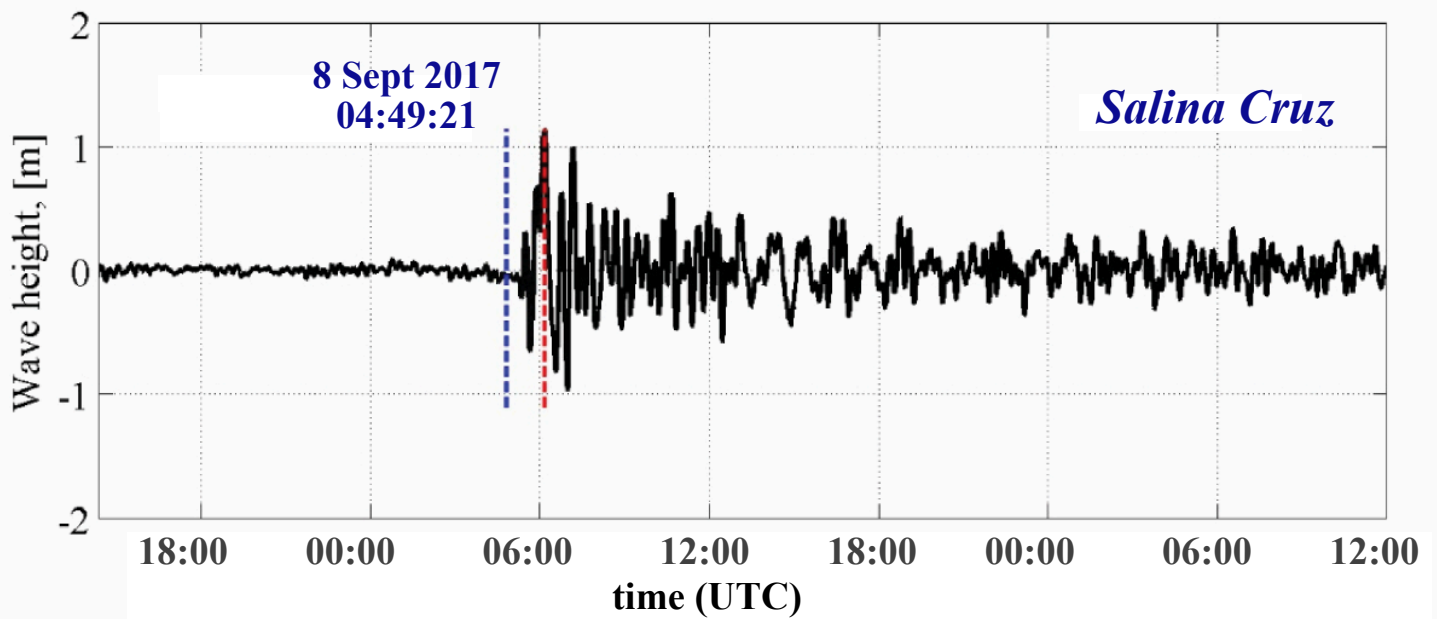
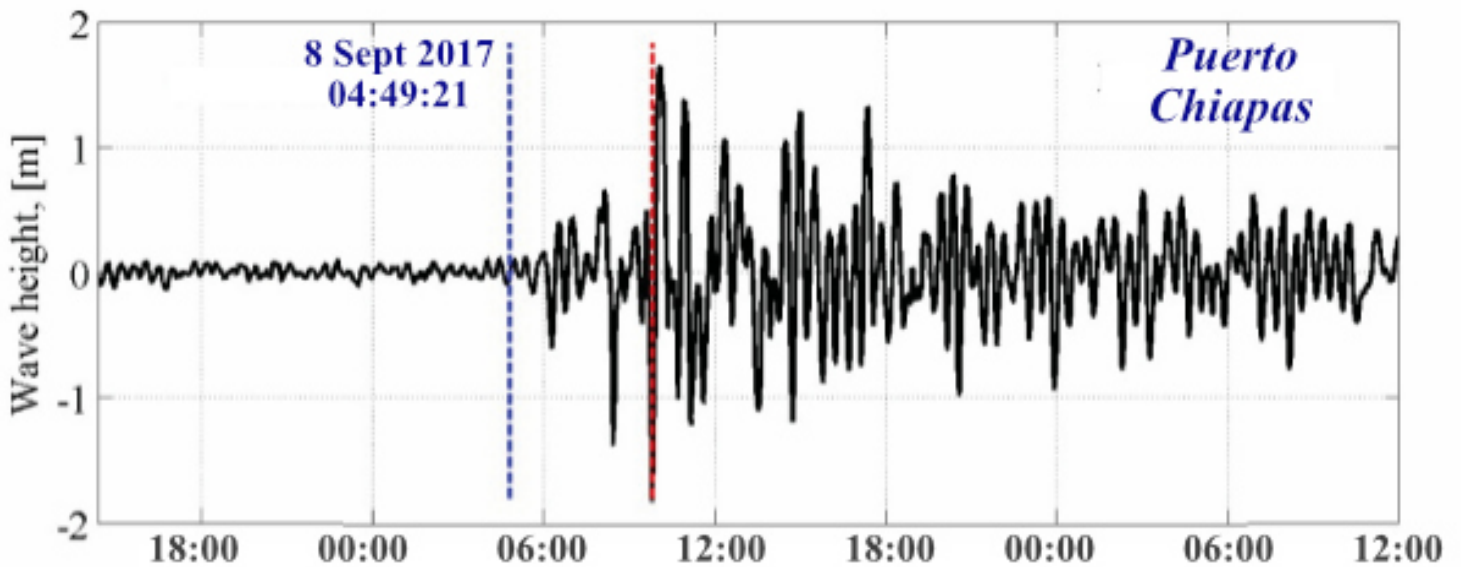
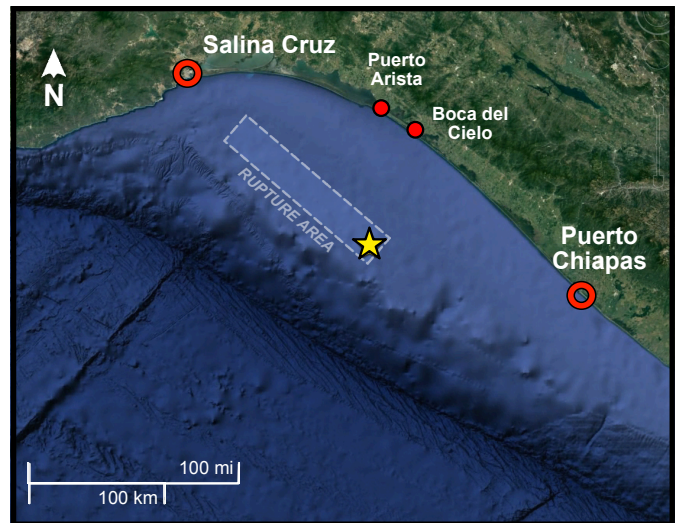


Maximum tsunami amplitude (centimeters) from MOST model. Travel time in hours shown by black contour lines. (NOAA Center for Tsunami Research)

**MAXIMUM TSUNAMI HEIGHT WITH RESPECT TO THE NORMAL TIDE LEVEL.
MEASURED AT COASTAL AND/OR DEEP-OCEAN SEA LEVEL GAUGES.**

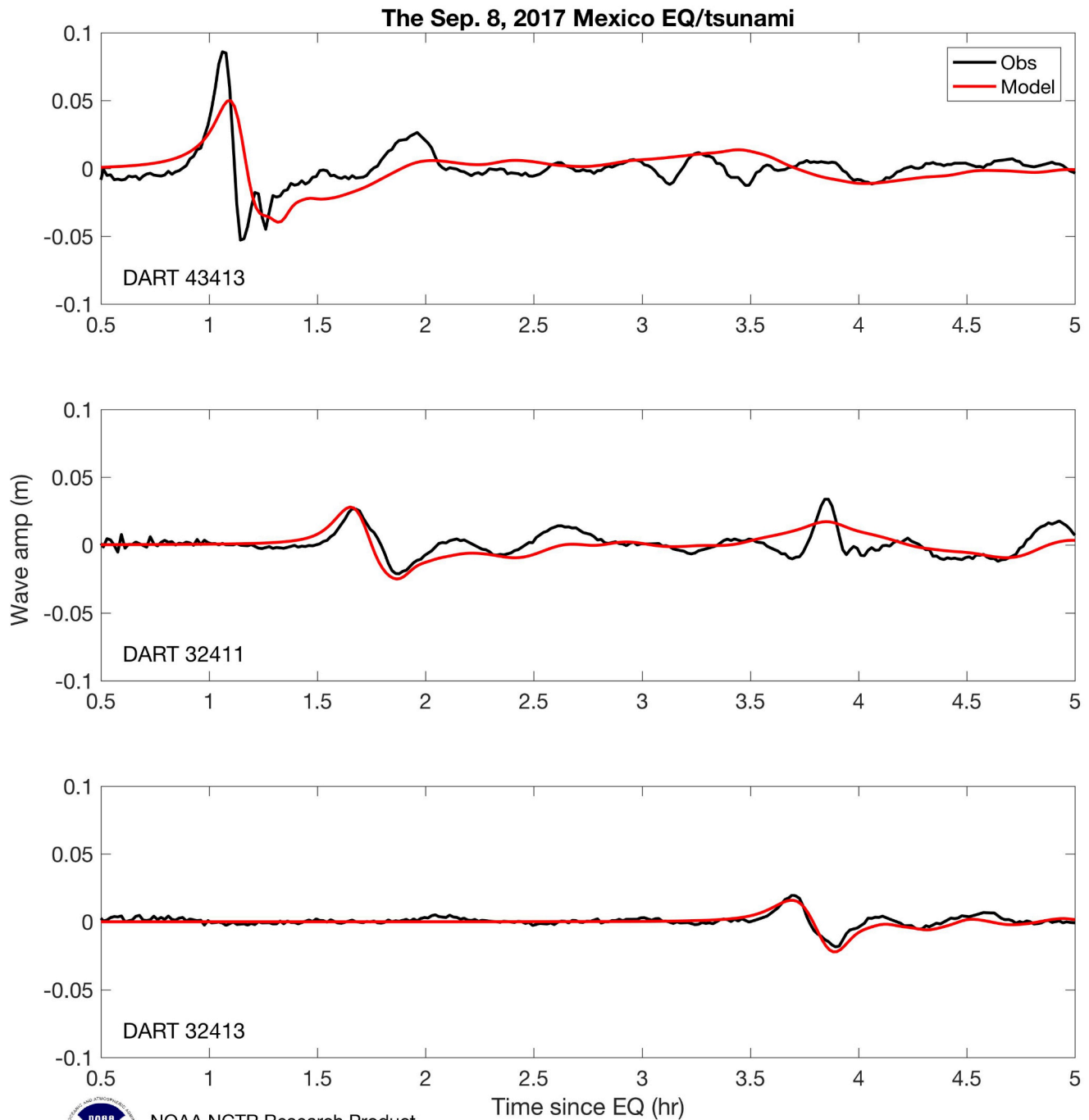
GAUGE LOCATION	GAUGE COORDINATES		TIME OF MEASURE (UTC)	MAXIMUM TSUNAMI HEIGHT		WAVE PERIOD (MIN)
	LAT	LON				
APIA UPOLU WS	13.8S	171.8W	1759	0.22M/	0.7FT	14
PAGO PAGO AS	14.3S	170.7W	1726	0.12M/	0.4FT	22
PAPEETE TAHITI	17.5S	149.6W	1508	0.04M/	0.1FT	18
QUEPOS CR	9.4N	84.2W	1345	0.17M/	0.6FT	88
LA LIBERTAD SV	13.5N	89.3W	1137	0.19M/	0.6FT	74
ACAJUTLA SV	13.6N	89.8W	1537	0.47M/	1.5FT	20
CHIAPAS MX	14.7N	92.4W	0949	1.75M/	5.8FT	32
KAHULUI MAUI	20.9N	156.5W	1413	0.18M/	0.6FT	18
HILO HAWAII	19.7N	155.1W	1357	0.17M/	0.6FT	18
HIVA OA MARQUESAS	9.8S	139.0W	1341	0.18M/	0.6FT	08
NUKU HIVA MARQUESAS	8.9S	140.1W	1306	0.20M/	0.7FT	14
DART 32412	18.0S	86.4W	1020	0.01M/	0.0FT	26
EASTER CL	27.2S	109.4W	1151	0.29M/	0.9FT	06
DART 32413	7.4S	93.5W	0843	0.02M/	0.1FT	24
LAZARO CARDENAS MX	17.9N	102.2W	0646	0.20M/	0.6FT	58
DART 43413	10.8N	100.1W	0558	0.07M/	0.2FT	10

Nearby Tide Gauge Records



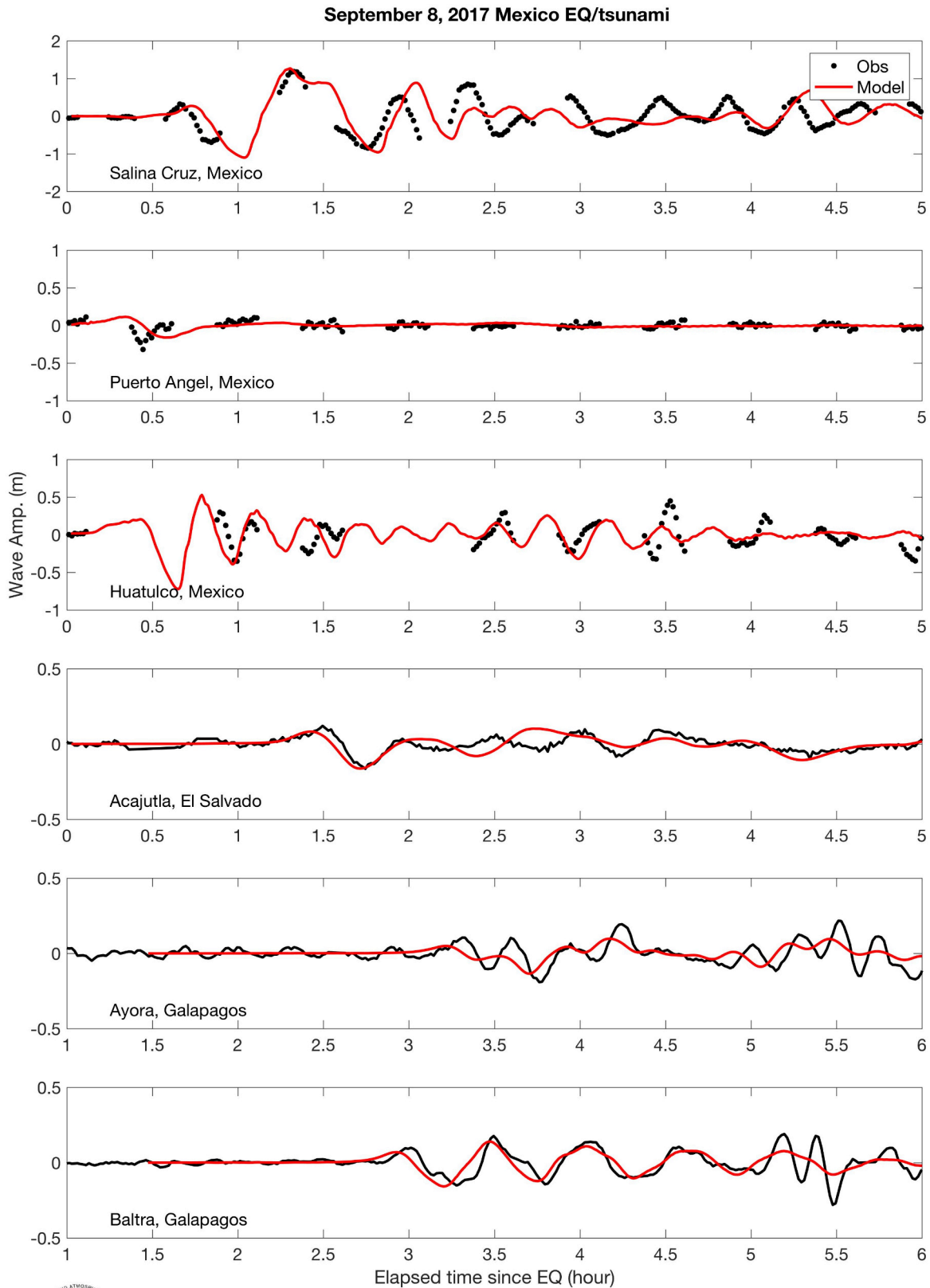
Sea Level Records, DART buoys

(see map p.2 for locations)



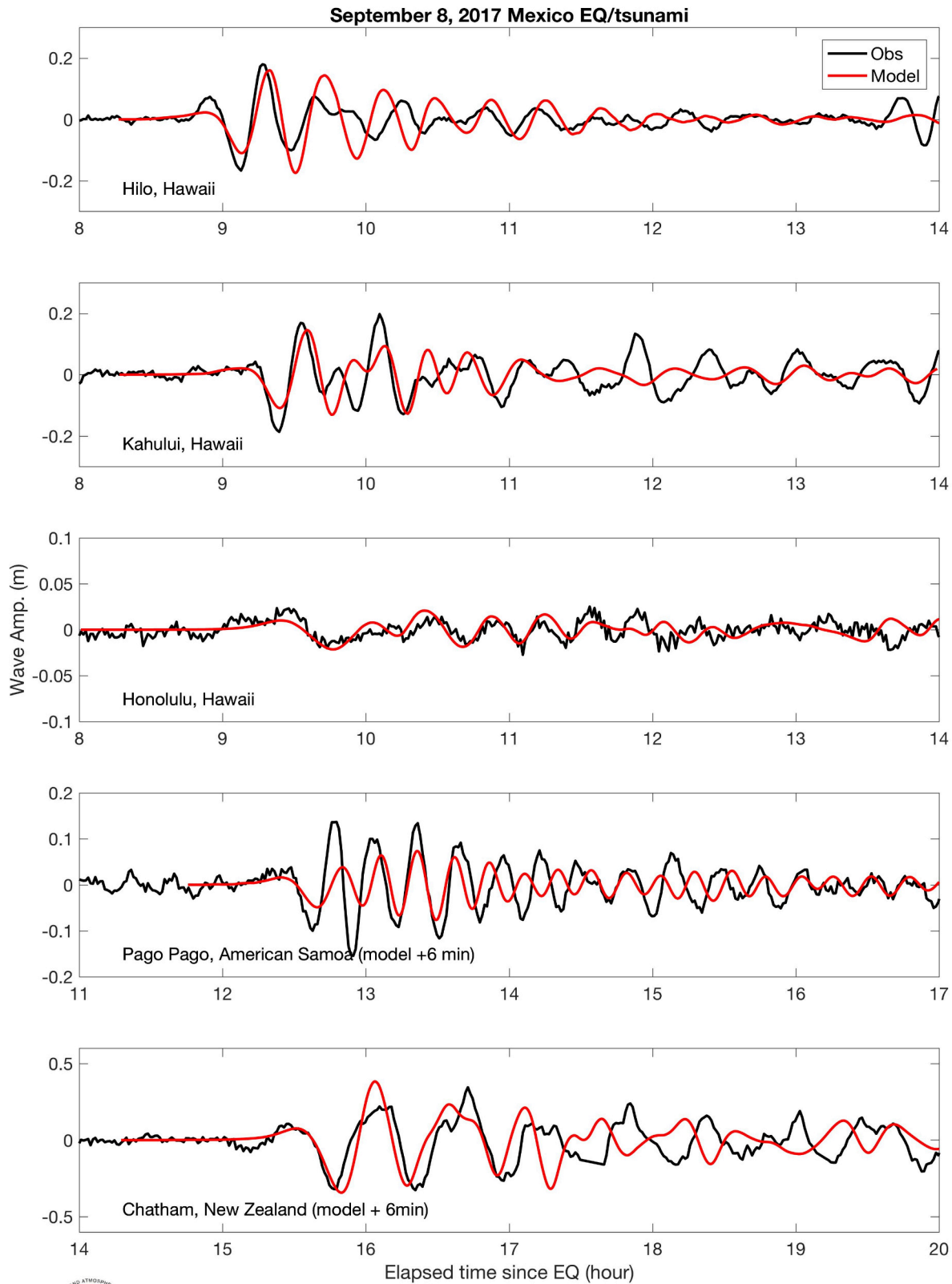
NOAA NCTR Research Product
Not an official forecast

Pacific Coastal Tide Gauge Records



NOAA NCTR Research Product
Not an official forecast

Pacific Coastal Tide Gauge Records



NOAA NCTR Research Product
Not an official forecast



Damage at Puerto Chiapas from the 8 Sept 2017 tsunami.