

State of California
Alfred E. Alquist Seismic Safety Commission

Memo

To: Commissioners
Mr. Richard J. McCarthy, Executive Director

From: Robert Anderson, P.G., C.E.G.
Seismic Safety Commission
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Date: August 30, 2012

Subject: California Tsunami Program Overview Presentation

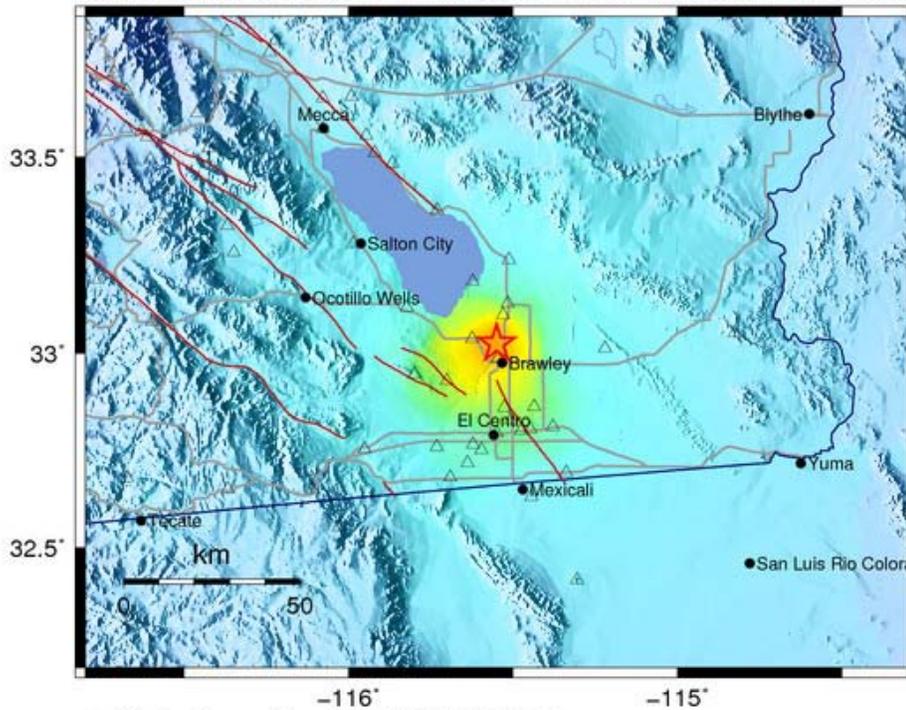
Background:

Kevin Miller from the CalEMA earthquake and tsunami program and Rick Wilson from the California Geological Survey will make a presentation on the California Tsunami Preparedness and Hazard Mitigation Program (Program). The Program is a state level hazard reduction project managed by the California Emergency Management Agency (CalEMA) Earthquake and Tsunami Program. There is a planning, preparedness, mitigation as well as a education aspect to the Program. CalEMA manages the Program and is supported by California Geological Survey and NOAA's National Tsunami Hazard Mitigation Program.

Efforts to date have mainly focused on tsunami inundation mapping and education outreach to coastal communities. The Program is looking at expanding its activities to include working with stake holders on tsunami current velocity issues in ports and harbors as well as studying the concept of designating safe haven offshore.

Recommendation: This is an informational item only. Commissioners are invited to ask questions.

CISN/sc ShakeMap : 6.9 km (4.3 mi) ESE of Westmorland, CA
 AUG 26 2012 08:57:58 PM GMT M 5.5 N33.02 W115.55 Depth: 9.0km ID:15200401



Map Version 7 Processed Mon Aug 27, 2012 09:37:11 AM GMT

PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	none	none	none	Very light	Light	Moderate	Mod./Heavy	Heavy	Very Heavy
PEAK ACC.(%g)	<0.05	0.3	2.8	6.2	12	22	40	75	>139
PEAK VEL.(cm/s)	<0.02	0.1	1.4	4.7	9.6	20	41	86	>178
INSTRUMENTAL INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+

Scale based upon Worden et al. (2011)

Figure 1 SHAKE map of the magnitude 5.5 earthquakes 3 miles NW of Brawley California North is to the top. The red lines trending to the northwest above and below the star showing the epicenter are the traces of the San Andreas and Imperial faults. (Source: USGS)

2012 Brawley Swarm: 26 August

CISN/SCSN Relocations with 3D model and HypoDD: August 2012 (red)
1981-2011/06 Relocations by Hauksson, Shearer and Yang (black)

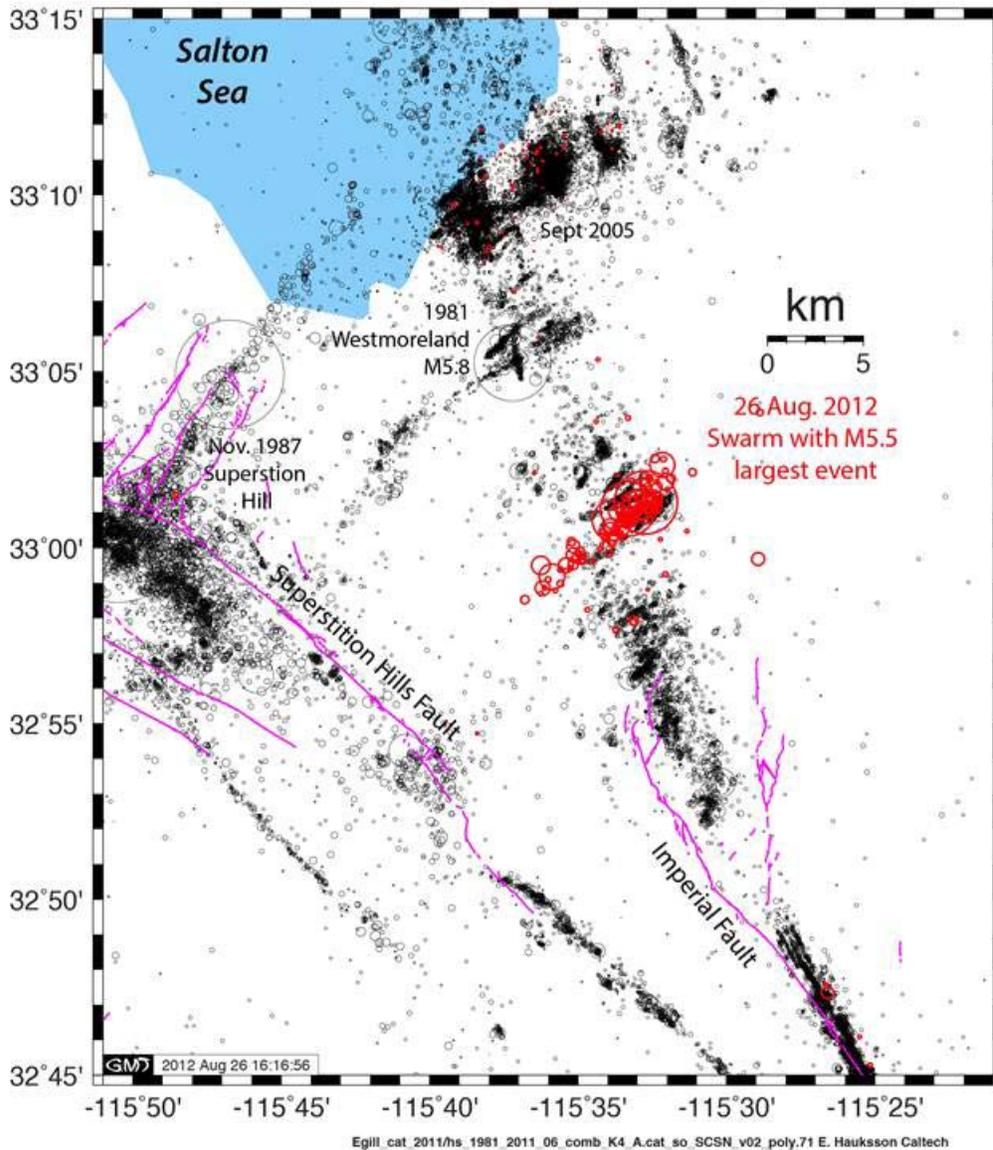


Figure 2 Map showing current earthquake sequence in red. The City of Brawley is 3 miles southeast of the largest red circle. North is to the top. Note: The Imperial fault had a magnitude 6.6 earthquake on October 15, 1979. The black dots represent the epicenters of historic earthquakes including some of the aftershocks from the Imperial Valley earthquake. (Source: Southern California Seismic Network)