METHOD OF PREPARATION

The tsunami inundation map presented is based on the methodology of Titov and Synolakis (1998) and Titov and Gonzalez (1997) which allows for wave propagation over complex bathymetry and topography. The modeling includes the effect of local and distant earthquakes and hypothetical extreme undersea, near-shore landslides on coastal and inland areas. The model accounts for the generation of pressure, wave steepening and runup at the shoreline. The inundation was determined by using digital imagery and terrain data on a GIS (Version 0), which allows for wave evolution over a variable bathymetry and topography.

This map represents the tsunami inundation potential along the coast of the State of California for the 2004 Sumatra, Indonesia earthquake. The inundations were computed for the expected inundation from the tsunami that would occur around the Pacific Ocean "Ring of Fire." The predictions of inundation from these events are subject to large uncertainties due to the varying nature and complexity of the events. These inundations can differ significantly from contours shown on the base map.

MAP EXPLANATION

State of California – County of Solano
MARE ISLAND QUADRANGLE
CUTTINGS WHARF QUADRANGLE
July 15, 2009

Purposes:

Tsunami Inundation Line
Tsunami Inundation Area

Sources Used:

State of California Geological Survey Tsunami Information:

University of Southern California – Tsunami Research Center:
http://www.oes.ca.gov/WebPage/oeswebsite.nsf/Content/B1EC

Please refer to the following websites for additional information on the construction and limitations of the tsunami inundation map.

PURPOSE OF THIS MAP

This tsunami inundation map was prepared to assist cities and counties in identifying their tsunami hazard in order to develop and adopt local emergency planning zones. The map, performed in cooperation with local agencies, is not legal evidence for use in any legal proceeding. It is provided for informational purposes only.

The inundation map has been compiled with best science, available scientific methods, and best engineering judgment. However, there is always a risk that an event, even a major one, may not result in inundation. This risk is due to a lack of known occurrences in the historical record.

Please refer to the following websites for additional information on the construction and limitations of the tsunami inundation map.

State of California Emergency Management Agency, Earthquake and Tsunami Program
http://oes.ca.gov/Disaster/Tsunami/TsunamiInundation.html#map

University of California – San Diego, Geosciences:
http://www.oes.ca.gov/Disaster/Tsunami/TsunamiInundation.html#map

DISCLAIMER

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