Initial Focus was on Subduction Zones, the Source of Most Destructive Tsunamis
Initial Focus Subduction Zones, the Source of Most Destructive Tsunamis

Near-shore Sources are Important.
Initial Focus Subduction Zones, the Source of Most Destructive Tsunamis

Near-shore Sources are Important.

Global Perspective
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Tsunami Source Working Group

Goals and Objectives:

Detailed studies of Megathrust and Other Tsunami Sources

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Tsunami Source Working Group

Goals and Objectives:

Principal Factors Controlling Mw?
Tsunami Source Working Group

Goals and Objectives:

Recurrence Intervals:
Paleo-tsunamis
Tsunami Source Working Group

Goals and Objectives:

Modeling and Hazard Assessments
Tsunami Source Working Group

Who?

Seismology
Marine Tectonics
Geology
Modeling

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The SAFRR (Science Application for Risk Reduction)
Tsunami Scenario

Stephanie Ross & Lucy Jones, Editors

Open-File Report 2013–1170
California Geological Survey Special Report 229

U.S. Department of the Interior
U.S. Geological Survey

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The SAFRR (Science Application for Risk Reduction) Tsunami Scenario—Executive Summary and Introduction


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Alaska Earthquake Source for the SAFRR Tsunami Scenario

By Stephen Kirby, David Scholl, Roland von Huene, and Ray Wells
Modeling for the SAFRR Tsunami Scenario—Generation, Propagation, Inundation, and Currents in Ports and Harbors

By the SAFRR Tsunami Modeling Working Group

1 Members of the working group (in alphabetical order): Bohyun Bahng (National Oceanic and Atmospheric Administration, West Coast and Alaska Tsunami Warning Center), José Borrero (University of Southern California and eCoast Ltd.), Eric L. Geist (U.S. Geological Survey; SAFRR Tsunami Modeling Coordinator), William Knight (National Oceanic and Atmospheric Administration, West Coast and Alaska Tsunami Warning Center), Patrick Lynett (University of Southern California), Dmitry J. Nicolsky (Alaska Earthquake Information Center, Geophysical Institute, University of Alaska), David D. Oglesby (University of California Riverside), Kenny Ryan (University of California Riverside), Sangyoun Son (University of Southern California), Elena N. Suleimani (Alaska Earthquake Information Center, Geophysical Institute, University of Alaska), Costas Synolakis (University of Southern California and Hellenic Centre for Marine Research), Hong Kie Thio (URS Corporation), Vasily Titov (National Oceanic and Atmospheric Administration, Pacific Marine Environmental Laboratory), Paul Whitmore (National Oceanic and Atmospheric Administration, West Coast and Alaska Tsunami Warning Center), and Rick Wilson (California Geological Survey).
New Case Studies of Submarine Landslides in Southern California and Southern Alaska

Pacific Coastal and Marine
Danny Brothers
Katie Maier
Jared Kluesner
Jamie Conrad
Eric Geist
Tom Parsons

Alaska Science Center
Peter Haeussler

Boise State University
Lee Liberty

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Multichannel Seismic Reflection Survey (November 2014)

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coherent internal reflectors -> cohesive, translational slide

100 m headwall scarp
slide surface
4 km lateral translation
slide deposit
older slide deposit

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The information is provided on the condition that neither the U.S. Geological Survey nor the U.S. Government shall be held liable for any damages resulting from the authorized or unauthorized use of the information.
Tsunami Hazards in the Hawaiian Islands: Triple Threat from Local and Distant-Source Tsunamis and Catastrophic Submarine Landslides

1960 Chile

Bruce Richmond and others

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Alaska Earthquake Source for the SAFRR Tsunami Scenario

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