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TSUNAMI SCIENCE & TECHNOLOGY ADVISORY PANEL (TSTAP)



TSTAP MEMBERS

Co-Chairs:

- Dr. Rocky Lopes, Certified Emergency Manager (Retired), Social Scientist
- Mr. Rick Wilson, Sr. Engineering Geologist, California Geological Survey

Members:

- Ms. Corina Allen, Chief Hazards Geologist, Washington Geological Survey
- Dr. Carrie Garrison-Laney, Tsunami Hazards Specialist, Washington Sea Grant
- Dr. Diego Melgar, Assistant Professor of Geophysics, University of Oregon
- Dr. Aurelio Mercado, Professor Emeritus of Oceanography, Univ. of Puerto Rico
- Dr. Mark Merrifield, Professor, Scripps Institute of Oceanography, UCSD

TSTAP MEMBERS

A research vessel with a mast and radar equipment is sailing on the ocean. The vessel is white with a red stripe and has the word 'TSUNAMI' visible on its side. The background is a blue sky with some clouds and a blue sea.

Federal Liaisons:

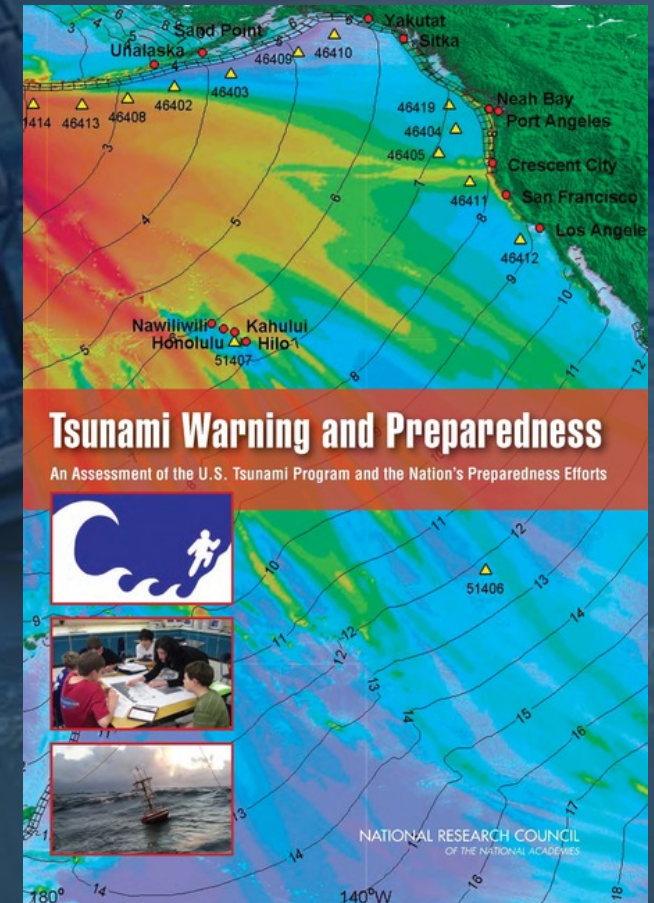
- Mr. Mike Angove, Tsunami Program Lead, NOAA National Weather Service
- Dr. Paul Earle, Director, National Earthquake Information Center, USGS

EISWG Liaisons:

- Dr. Tom Altshuler, Vice President And Group General Manager, Teledyne Marine Systems
- Mr. Jonathan Porter, Vice President of Innovation and Development, AccuWeather, Inc.

TSTAP ACTIVITIES TO DATE (JULY 2021)

- Began meeting in August 2020.
- Established bimonthly 1.5-hour meeting schedule September 2020 through March 2021, then monthly thereafter.
- Evaluation of “tsunami research, detection, forecasting, warning, mitigation, resiliency, and preparation” under *Tsunami Warning, Education, and Research Act of 2017*
- Reviewed progress on 42 recommendations in *Tsunami Warning and Preparedness: An Assessment of the U.S. Tsunami Program* (National Academy of Sciences Ocean Studies Board, 2011) and other relevant documents.
- Noted accomplishments and gaps revealed from review of recommendations and NOAA’s response.



TSTAP ACTIVITIES TO DATE (JULY 2021)

- Held 10 briefings by NOAA scientists and other professionals to inform on gaps and issues to validate or confirm Observations and Findings.
- Began development of draft recommendations to go into TSTAP Report.
- Refined, combined, and ranked draft recommendations for priority and natural flow.
- Began drafting the TSTAP Report called for in the legislation.
- Report-writing is being done collaboratively by all TSTAP members. First draft to be sent to EISWG 23 July 2021.

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Tsunami Science and Technology
Advisory Panel

Working Group Report and
Recommendations to the NOAA
Science

Advisory Board concerning
Tsunami Science and
Technology Issues for the United
States

(month, 2021)

TSTAP RECOMMENDATIONS (DRAFT)

- Improve unification and capabilities of the Tsunami Forecast System.
(4 sub-recommendations)
- Improve tsunami detection and observation systems.
(4 sub-recommendations)
- Provide more extensive, consistent, and accurate tsunami messages and products.
(3 sub-recommendations)
- Develop enhancements to Tsunami Warning Center forecasts and alert systems.
(2 sub-recommendations)



TSTAP RECOMMENDATIONS (DRAFT)

- Improve consistency in tsunami preparedness and mitigation products for communities.
(3 sub-recommendations)
- Produce guidance for improving long-term community resilience to tsunami hazards.
(2 sub-recommendations)
- Improve tsunami hydrodynamic modeling.
(3 sub-recommendations)
- Develop tsunami research priorities and leverage research opportunities.
(1 sub-recommendations)

