

USGS-NTHMP Workshop: background and goals

Background on Workshop:

Improved collaboration between the USGS and the NTHMP has been desired by the NTHMP and was a recommendation in the 2011 National Academy of Science report on “Tsunami Warning and Preparedness: An Assessment of the U.S. Tsunami Program and the Nation's Preparedness Efforts.”

Goals:

review existing activities

identify needs and discuss how to meet them

identify existing collaborations

improve collaborations

build consensus on work

set an agenda for future work, without dictating work for any group or individual.

From the U.S. Geological Survey Natural Hazards Science Strategy

Official USGS priorities in tsunami hazards are:

- (1) identify and quantify tsunami sources, such as earthquake faults, volcanoes, and landslides,
- (2) assess tsunami sources and hazards and model tsunami generation,
- (3) improve understanding of how tsunamis are generated and determine probabilities of tsunami hazards in different areas,
- (4) assess tsunami inundations by interpreting tsunami effects.

Data from USGS national and global seismic networks feed directly to the tsunami warning centers of NOAA.

Tsunami investigations by the USGS span five different USGS Programs and six different Science Centers.



USGS-NTHMP Workshop: Feb. 1-2, 2016

Participants:

~57 attendees total

24 USGS: Anchorage, Golden (CO), Woods Hole, Seattle,
Menlo Park and Santa Cruz (CA)

Mike Angove

Jill McCarthy (Director, USGS Geologic Hazards Science Center – includes NEIC,
and National Seismic Hazard Map program)

Steve Hickman (Director, USGS Earthquake Science Center, Menlo Park, CA)

Talks on:

NOAA tsunami program (Mike Angove)

NTHMP/MMS Overview (Dmitry Nicolsky and Kara Gately)

NOAA tsunami program (Mike Angove)

Overview of USGS tsunami work (Stephanie)

Landslide Tsunami Modeling (David George)

Proposed USGS subduction zone initiative (Joan Gomberg)

USGS-NTHMP Workshop: panels

Several panels, mostly regional

Each started with state/territory needs, followed by USGS panelists,
then open discussion

Example: Cascadia

10:15 – 11:45AM SESSION 1: Tsunami Sources Presentation – Cascadia focus – Overview on the needs from the MMS concerning consistent tsunami sources: (Panelists: T. Walsh, J. Allen, A. Nelson, P. McCrory, A. Frankel). *Facilitators: Art Frankel and Tim Walsh*

10:15-10:25 AM Washington needs from Tim Walsh
Oregon needs from Jonathon Allen

10:25-10:40 AM brief comments by Alan Nelson, Pat McCrory, Art Frankel

10:45 – 11:45AM Discussion

USGS-NTHMP Workshop: anticipated outcomes and questions participants were asked to consider about the path forward

- An understanding of existing NTHMP-USGS collaborations and needs.
- Should we work to support additional regional or subject-related workshops to improve planning and collaborations?
- Should we develop regional NTHMP-USGS Work Groups and/or technical advisory groups that address regional scientific and related preparedness issues?
- Should we develop a NTHMP-USGS Work Group that continues long-term planning for collaborations?
- Recommendations for improving future NTHMP Strategic Plans and USGS long-term work plans.