

**National Tsunami Hazard Mitigation Steering Committee Meeting  
May 18-20, 2004 Anchorage, Alaska**

**Attendees**

Jeff LaDouce – NOAA/NWS (Chair)	Roger Hansen – State of AK
Frank González – NOAA/PMEL	Rodney Combellick – AK Geologist
Landry Bernard – NOAA/NDBC	Scott Simmons – AK DHS Emerg.Mgt.
Charles McCreery – NOAA/PTWC	Ervin Petty – State of AK
Vasily Titov – NOAA/TIME Center	Richard Eisner – State of CA
Eddie Bernard – NOAA/PMEL	Don Hoirup – CA, Geological Survey
Paul Whitmore – NOAA/WC-ATWC	Brian Yanagi – State of HI
James Partain – NOAA/NWS	George Priest – State of OR
Laura Kong – NOAA/ITIC	George Crawford – State of WA
Chris Jonientz-Trisler – DHS/FEMA-X	Timothy Walsh – State of WA
David Oppenheimer – USGS	
Stuart Koyanagi – USGS/HVO	
Craig Weaver – USGS	

**Review of Action Items from the May 2003 Meeting:**

**Action Item 1:** The USGS earthquake response plan and the NOAA response plan need to be examined to be sure that tsunami is included in both plans.

**Action:** Craig Weaver

Craig Weaver from the USGS also briefed on Congressional interest in the NOAA Weather Radio on a Pole project. (AHAB) All Hazards Alert Broadcast.

**Action Item 2:** Take the 14 program goals and formulate a new 5-year plan.

**Action:** Jeff LaDouce, Rich Eisner, volunteers.

**Status:** After three iterations of a spreadsheet, inputs have been received.  
**CONTINUING.**

**Action Item 3:** Form a Technical Advisory Board.

**Action:** Eddie Bernard

The group decided to have two levels of technical oversight. The first level is to continue to hold 5 -year reviews by outside reviewers to evaluate the overall program directives and technical quality. The second level of technical oversight is to form ad hoc technical groups to address specific technical issues.

**Status:** OPEN

**Action Item 4:** Provide names of presenters for future meetings, e.g., social scientists, local emergency managers and Warning Coordination Meteorologists (WCMs) national and local media, and researchers. Jeff LaDouce will prepare the agendas and invite the presenters.

**Action:** James Partain

There was no presenter for May meeting.

James Partain will coordinate a subcommittee with WCM's and report on issues and actions of results.

**Status: ON GOING**

**New Action Item 5:** The group was asked for comments on NDBC Draft DART Concept of Operation Document, paying specific attention to what number to use for the availability of the system.

**Action:** Jeff LaDouce

**Status: OPEN**

**New Action Item 6:** Explore issues and challenges of developing a concept called "Bridge for Disseminating Real-time Technical Assistance and Coordinating Community Protection."

Action Recommendations.

**Status:** Evaluation of step two: Discuss potential adaptation of elements of Hurricane Liaison Team (HLT) from March tsunami coordination meeting.

**Action:** Jeff LaDouce and Chris Jonientz-Trisler

**Status:** The HLT presentation was made at March tsunami coordination meeting. Evaluation continues as to what can be adopted from the HLT process.  
**Continuing.**

**New Action Item 7:** The group was asked to provide in writing the Lat/Long of the location for the 7<sup>th</sup> and 8<sup>th</sup> DART buoys for NDBC.

**Action:** Jeff LaDouce

**Status: OPEN**

**New Action Item 8:** Cascadia Region Earthquake Workgroup (CREW). The group was asked to form a working group for initiatives. Terms of reference for 60 days from 5/19.

Action: George Crawford

### **Objective**

Develop protocols for NTHMP States and NWS for a Cascadia Subduction Zone Earthquake. The protocols should be developed using the Cascadia Subduction Zone Scenario developed by Cascadia Region Earthquake Work Group (CREW).

### **Interface documents**

- Federal Response Plan (Tsunami) – See Action Items # 1 and 6
- NEHRP Clearing House Plan
- Crew Cascadia Subduction Zone Scenario

### **Process**

- Open dialogue with Cascadia Region Earthquake Work Group to use their Cascadia Subduction Zone Earthquake Scenario and have them form a working group. CREW should submit a proposal to the NTHMP fall steering meeting.
- Develop a table top exercise that will bring out coordination issues and procedures that would be required for such an event. The table top should provide a clear opportunity for the private sector. Potentially two table top exercises should be scheduled:
  - ✓ NTHMP and NWS.
  - ✓ Each State to include stakeholders and private sector.
- Merge input from both table tops into a report.
- NTHMP form working group to develop draft guidance/procedural document.
- Coordinate at all levels (Local/State/Federal) and finalize (Final document could be done through CREW).
- Implement process.

**STATUS: OPEN**

**New Action Item 9:** Modeling by Rich Eisner for inundation and evacuation maps.

Action: Rich Eisner

**STATUS: OPEN**

**New Action Item 10:** Social Scientist interpretation regarding AHAB broadcast

**Action:** Rich Eisner & Paul Whitmore

**STATUS: OPEN**

**New Action Item 11:** State Tsunami Warning & Tsunami Warning Center Requirements. Chip McCreery to get in touch with State contact and inquire about state requirements: who, where, how many, how much info, media, vs. public, media vs. the warning centers.

**Action:** Chip McCreery

**STATUS: OPEN**

Chris Jonientz-Trisler has provided the DHS/NOAA Agreement on All-Hazards Net & EAS

**New Action Item 12:** Establish a working group driven by Emergency Management needs, that will develop recommendations on technical and policy issues related to NTHMP mapping and modeling efforts.

**Action:** Frank González

**Status: CLOSED**

**New Initiatives:**

Migration from Jeff LaDouce

Fund out of The Hazard Mitigation Program (proof of concept – MOU)

MOU – get tsunami buoys out of The Hazard Mitigation Program and put into core funds with interagency coordination.

Mapping & modeling by PMEL. – VADM. Lautenbacher needs to agree to this.

Buoys are the responsibility of PTWC & ATWC.

Laura Kong: Global Tsunami Database  
NGDC (National Geophysical Data Center) Boulder  
Populate new NGDC info  
Gather knowledge on tsunamis

Refine \$\$ for spreadsheet: next couple of weeks

3 basic areas – include sub-areas

5 year plan: need to prioritize

Multi-state – National

Rich Eisner – spreadsheet due by end of July.

Eddie Bernard – smaller working groups needed for input into larger 5 year plan.

Jeff LaDouce to insert column into 5-year spreadsheet to include priorities by A/B/C then theme area, etc. This has already been completed.

Lt. Mark Bolin: NOS oversees data collection survey efforts for Alaska.

Bathymetry a concern from Roger Hansen to Lt. Bolin. Scott Simmons has list of requests for new maps. Alaska/San Francisco/Seattle: history of surveys, how & when done. Also request history of recent events to be re-done and updated.

George Priest : expressed concern about estuaries. NOAA – maps only navigational waters. Non-navigational water uses LIDAR technology.

Action Items Summary Tracker – handout updated

Next TCM – 2006

Goals: resolve procedural differences to ensure consistent & seamless tsunami warning systems: 19 action items: 7 completed, 8 in-progress

2004 Status of Actions: Special Interest

Tsunami Warning Test scheduled for September 2004

- multiple level warning proposal
- -b-roll proposal
- data assimilation subcommittee
- -WCM subcommittee – James Partain – interest as POC – no action taken at this time.

TCM 2006 Agenda

Participation from partners & customers

Tsunami Ready – how to make it grow or become more supportive.

Ideas & best practices from “front lines” needed

Break out groups or panel discussions needed

Jeff LaDouce expressed comments: may need direct coordination with WCM's more – who are they? –not an issue except for possibly California (4) WCM sites. Need WCM coordination in conjunction with NTHMP.

NAWAS : bulletin/watch/warning

WCM's – POC

Event: Forecaster

Scott Simmons expressed that we need to keep media out of the warning centers – protocol is needed for efficiency and accuracy of information.

Paul Whitmore – ATWC

Reviewed action items for WCM in March & Team Vision.

Submitted proposal for warnings & no warnings issued.

Warnings would be based on meter heights – wave trough – peak to trough.

Example: 1-3 m=Level I

3+ m= Level II, etc.

Suggested levels could be: nominal, moderated, etc.

George Priest suggested an “all clear” for calling off warning and not a set time limit in case conditions change, and multi-level.

James Partain suggested that a social sciences scientist is needed, to investigate the human nature curiosity of dangerous conditions.

Next meeting to be held: November 2-4, 2004 in Oakland, CA.

Individual cancellations must be made at least 72 hours prior to individuals scheduled date of arrival, in order to avoid a no-show charge.

Action Item: NOAA Level – Tsunami Awareness Week

General Johnson

Purpose: review overall current gap-stop Ocean Commission report with TAW