

Agenda: NTHMP Coordinating Committee February 5, 2016  
Location: at NTHMP Annual Meeting, NOAA/NCEI, Boulder, Colorado

1. Welcome and call meeting to order: Chair Grant Cooper
2. Roll call

NOAA

Mr. Mike Angove\*, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Grant Cooper, NWS Western Region Director, Salt Lake City, UT  
Ms. Marie Eblé\*, NOAA Pacific Marine Environmental Lab, Seattle, WA  
Kara Gately\*, National Tsunami Warning Center, Palmer, AK  
Dr. Laura Kong\*, International Tsunami Information Center, Honolulu, HI  
Dr. Rocky Lopes\*, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Charles McCreerey\*, Pacific Tsunami Warning Center, Honolulu, HI  
Ms. Christa Rabenold\*, Tsunami Program, NWS HQ, Silver Spring, MD  
Dr. Vasily Titov, Pacific Marine Environmental Laboratory, Seattle, WA  
Mr. Paul Whitmore, National Tsunami Warning Center, Palmer, AK

FEMA

Ms. Tamra Biasco, FEMA Region 10, Lynnwood, WA  
Mr. Mike Mahoney, FEMA Federal Insurance & Mitigation Admin, Washington, DC

USGS

Ms. Stephanie Ross, USGS Menlo Park, CA  
Dr. Nate Wood, USGS Research Geographer, Portland, OR

Alaska

Mr. Dan Belanger, Alaska DHSEM, Anchorage, AK  
Dr. Dmitry Nicolsky, University of Alaska at Fairbanks, Fairbanks, AK

American Samoa

Ms. Elinor Lutu\_McMoore\*, Weather Service Office, Pago Pago, AS

California

Mr. Kevin Miller, California Office of Emergency Services, San Francisco, CA  
Mr. Rick Wilson, California Geological Survey, Sacramento, CA

Commonwealth of the Northern Mariana Islands

No representatives

East Coast States

Dr. Stephan Grilli, University of Rhode Island, Kingston, RI

Guam

Mr. Chip Guard\*, NWS Forecast Office, Barrigada, Guam  
Ms. Pilar Carbullido, Guam HS/EM, Agana Heights, Guam

Gulf Coast States

Dr. Juan Horillo, Texas A&M University at Galveston, Galveston, TX  
Mr. Chayne Sparagowski, Coastal Bend Council of Governments, Corpus Christi, TX

Hawaii

Dr. Kwok Fai Cheung, University of Hawaii, Manoa, HI  
Mr. Kevin Richards, Hawaii Emergency Management Agency, Honolulu, HI

Oregon

Dr. Jon Allen, Oregon Dept. of Geology & Mineral Industries, Portland, OR

Puerto Rico

Dr. Victor Huerfano, Puerto Rico Seismic Network, Mayaguez, PR  
Mr. Wilfredo Ramos, Puerto Rico Emergency Management Agency, San Juan, PR

U.S. Virgin Islands

Mr. Roy Wattlington, Professor Emeritus, St. Thomas, VI

Washington

Ms. Tabitha Laird\*, Washington EMD, Camp Murray, WA (Guest)  
Mr. John Schelling, Washington EMD, Camp Murray, WA  
Mr. Tim Walsh, Washington Division of Natural Resources, Olympia, WA

31 present, 9.5 state votes (min 7); 6 Fed votes (min 4). Quorum requirement was met.  
\*Non-voting; ex-officio or guest 14).

3. Minutes of Coordinating Committee meeting of November 10, 2015. Call for approval: Grant Cooper. Kevin Richards moved to accept the minutes as presented. Tim Walsh seconded. Minutes were approved by unanimous consent.

4. Grant Cooper – Welcome and self-introduction

Dr. Cooper introduced himself. He made remarks about observations during annual meeting.

5. Recognition and welcome of Dan Belanger as the Emergency Management Representative for Alaska.

Rocky Lopes and Dmitry Nicolsky introduced Dan Belanger (who arrived after introductions were made.)

6. NTHMP MES & MMS Summer Meetings

Rocky Lopes explained that due to higher than budgeted spending for invitational travel for the NTHMP Annual Meeting, plus having to take a \$7,700 reallocation of available NTHMP travel funds due to restrictions from a Government-wide cap on travel imposed by a Presidential Executive Order, there are insufficient funds to offer invitational travel for separate face-to-face “summer meetings” of both the Mapping & Modeling Subcommittee (MMS) and the Mitigation & Education Subcommittee (MES).

Therefore, with reluctance, plans to offer invitational travel by the NWS to support a MMS “summer meeting” had to be canceled. Plans to offer support for CC members who are members of the MES for an MES summer meeting are still intact. MES will announce their plans for a meeting soon.

Note: NTHMP travel policy has been for NWS to offer invitational travel for only for members of the Coordinating Committee who serve on the MES, MMS, or Warning Coordination Subcommittee (WCS) – not to all members of all subcommittees.

This situation will be better after September 1, 2016, when NTHMP grant funds can be applied to cover travel by grant-supported members of both the MES and MMS for the Annual Meeting and respective summer meetings.

7. Confirm frequency and schedule of NTHMP Coordinating Committee meetings for 2016 between now and the next Annual Meeting.

The members agreed that meeting on the third Tuesday odd number months at 3:00pm Eastern Time would continue.

Therefore, the Coordinating Committee meetings during 2016 will be:

March 22 (rescheduled at Chair's request), May 17, July 19, September 20, and November 15. Date for the face-to-face Coordinating Committee meeting at the Annual Meeting is to be determined.

Dates for these meetings will be posted on the NTHMP website and distributed to Coordinating Committee members.

## 8. Updates from each NTHMP Subcommittee

### a. Mapping & Modeling Subcommittee

Kara Gately reported the USGS workshop held February 1 – 2 was successful. The MMS will be coming up with a list of scientific needs and priorities as a result of this meeting.

The tsunami currents benchmarking workshop results are in final review and will be provided soon.

The Maritime Guidance document is about completed and ready to transfer to the MES for their input in several sections.

Near-shore safe depths guidance is still being worked on.

MMS was planning to have a landslide workshop this summer (as its "summer meeting", but now that the MMS summer meeting had to be canceled (see section 6), this workshop will be treated as an executable task in the FY16 NTHMP grants from eligible partners and labeled as a scientific/technical meeting. Each partner may choose to include a request for funds to travel to this workshop.

MMS requests a three-day summer meeting for next summer. At next year's annual meeting, we will be talking about the strategic plan. Request full one-day joint meeting with MES to talk about strategic planning. (These requests are addressed later in these minutes in section 9c).

Co-Chair: Kara Gately stated that Marie Eblé was nominated as the NOAA Co-Chair for the MMS from January 2016 through January 2018. Paul Whitmore seconded. The Coordinating Committee concurred with unanimous consent.

Rick Wilson thanked Kara Gately for her service as the NOAA Co-Chair for the past two years.

b. Mitigation & Education Subcommittee

Tamra Biasco stated that during a shortened meeting of the MES, they reviewed strategic priorities and updated ongoing tasks. The MES is on track and has achieved most strategic outputs.

The MES is reviewing post-tsunami protocols and implementation.

The MES had a presentation on 2016 Cascadia Earthquake recognition campaign conducted in January. The MES has a work group on social media that collaborated with this campaign.

A strategic plan for tsunami evacuation guidelines is under review. More development is required.

Mike Mahoney announced that the *Tsunami Vertical Evacuation Guidelines* (P-646) can be updated via work through ATC's contract with FEMA. He will keep MES informed on how members may participate and on progress.

Tamra Biasco further stated that when the MES does strategic plan development, the members of the WCS need to be engaged.

Co-Chair: MES nominated Gala Gulacsik of FEMA Region 10 to serve as the FEMA MES Co-Chair. Tim Walsh seconded the nomination. Passed unanimously.

Kevin Richards thanked Tamra Biasco for her many years of service as the MES Co-Chair.

c. Warning Coordination Subcommittee

Paul Whitmore reported that the WCS had a too-short meeting (abbreviated due to snow rescheduling.)

Whitmore announced a change to services provided for PR/VI. Effective March 1, the PTWC will provide coverage for PR/VI instead of the NTWC, and also continue its coverage for the rest of the Caribbean.

Whitmore discussed exercises and communications tests, and described accidental communications tests going live on the internet.

He further announced that by next NTHMP meeting, he anticipates a positive report on implementation of the NWS IT Modernization project (called TOPS).

9. NTHMP Rules of Procedure required annual meeting business:

- a. Review the Strategic Plan measures and milestones to ensure progress is on track.

Kevin Miller: MES activities are on track.

Kara Gately: MMS activities are on track and the subcommittee is finalizing things.

Paul Whitmore: the metric "annually increase warning dissemination/reception by 10%" is hard to measure. Recommend reconsidering any vague, non-measurable item like this next time.

Paul Whitmore: The NTHMP lost its method to conduct on-line post-event reviews/surveys. John Schelling said that the Washington state IT department dropped the survey that they once had, and it is not available any more. Paul Whitmore requested if any other state could adopt the survey. Kevin Richards volunteered.

Nicolsky: we need to develop archive locations for inundation modeling. At the moment, these models are archived at the University of Southern California, University of Washington, and Texas A&M University. These locations are not permanent. Rick Wilson offered to discuss modeling archiving needs with NCEI.

- b. External review

Tamra Biasco asked how and when the NTHMP would conduct an external review which according to the current NTHMP Strategic Plan is to be done during 2017.

Tim Walsh stated that an external review was done in 2001 and 2007 and can be found on the NTHMP website. He also stated that an external review was completed in 2010 as a response to a report to Congress from the 2006 Tsunami Warning and Education Act.

Paul Whitmore suggested that the NTHMP should have this review before development of next NTHMP Strategic Plan.

Actions: get recommendations for external reviewers from NTHMP CC members. Discuss within the NWS how their participation (such as travel to next NTHMP Annual Meeting) can be funded. Recommendation is to follow the model used for developing the 2007 external review.

- c. Appointment of an annual meeting work group

The members discussed their vision of what they wanted to accomplish at the NTHMP Annual Meeting. There was general agreement that the Annual Meeting week include:

Monday: separate meeting times for MES, MMS, and WCS as subcommittees.

Tuesday: A collaborative planning meeting between MMS and MES.

Wednesday: Annual Meeting -- Strategic plan development emphasis

Thursday: Annual Meeting – day 2, presentations on topics of interest as determined by work group and approved by Chair.

Friday: NTHMP Grantees meeting (morning) / Coordinating Committee meeting (afternoon.)

Grant Cooper asked for volunteers to serve on a work group to develop a schedule and agenda for the 2017 NTHMP Annual Meeting. Dr. Cooper appointed Kevin Richards, Dmitry Nicolsky, Roy Watlington, Kara Gately, Tim Walsh, Vasily Titov and designated Rocky Lopes to facilitate the group and provide reports.

#### 10. Appoint Strategic Plan Revision Work Group.

Considering the plan describe above (external review then strategic planning during the NTHMP Annual Meeting), Tim Walsh moved/Kevin Richards seconded to defer appointment of this work group until next year. This motion passed with unanimous consent.

#### 11. The United Nations declared November 5 as “World Tsunami Day.” What does that mean for the NTHMP? The United States?

Tim Walsh: what was significance of November 5? Ans: this is a date significant to Japan.

Laura Kong: most countries in the Indian Ocean think about December 24. Other dates are memorialized for other locations. November 5 is important, but it is hard to do both your own recognition day/week/month and Nov. 5 also.

Kevin Richards: Hawaii’s “ticket is full.” We should support it, but not in Hawaii. Referred to ITIC.

Paul Whitmore: our activities center around early March and April. Is the U.N. action important enough to shift our dates?

John Schelling: the November 5 timing is close to shakeout activities that occur in October. Schelling suggested that the NTHMP pass a resolution of support and ask Laura to share it with the U.N.

Laura Kong: Countered by saying that the NTHMP should reflect its support in the 2017 NTHMP annual report, and post it on the tsunami bulletin board.

Rick Wilson: it is a second opportunity. A letter of support would be good to have.

Kara Gately: would be nice by next year that we endorse it. Also have social media done for that day.

Grant Cooper: insert a statement in the NTHMP *TsuInfo Alert* newsletter.

Tim Walsh: put together an NTHMP calendar of tsunami recognition events throughout the world and give it to tsunamizone.org.

Tamra Biasco: The MES has already done this through its social media work group. Kevin Miller stated that tsunamizone.org already has a scrolling list of dates.

Action: an update on what the U.N. will be doing to recognize World Tsunami Day is requested for the next CC meeting (March 22). Christa VonHillebrandt was asked to provide this report.

## 12. Old Business

There was no old business.

## 13. New Business

### a. Island Caucus

Kevin Richards: in the past we had an island caucus, now all islands are recognized at the same level. Through discussions with peers, we have eliminated opportunity for islands to develop consensus and understanding. Recommend that the NTHMP reconstitute an "island caucus" and include islands in the Caribbean as well as the Pacific.

Roy Watlington expressed support.

Kevin Richards: have two hour time for an Islands Caucus meeting at the NTHMP annual meeting.

Rick Wilson: where does this fit in within NTHMP responsibilities?

Rocky Lopes: separate side-bar meetings by any group of members are non-official and do not impact official NTHMP responsibilities.

Tim Walsh: Pacific islands were clustered due to their capabilities rather than a caucus.

Victor Huerfano: supports the concept. Each island will keep its own independence.

Roy Watlington: the Island Caucus would not have meetings that conflict with other subcommittee or annual meeting times. The members will meet when they're together and have an opportunity to report.

Dmitry Nicolsky: not sure of purpose of a separate caucus for islands. Is there is a need for a caucus of western states, too?

Kevin Miller: would this have a report at the annual meeting?

Elinor Lutu-McMoore: many other states have deep expertise, but island representatives do not.

Kevin Richards: Moved that the NTHMP create an Island Caucus for discussion and meeting during the Annual Meeting time, with a report on their meeting given during the Annual Meeting. Roy Watlington seconded. There was no further discussion. The motion was passed unanimously.

b. Multihazard mapping

Stephan Grilli described a multihazard mapping project being considered by the National Academy of Sciences. He stated that there is a move for looking at multihazard mapping in the U.S. Different agencies have different maps for different hazards (hurricane, flood, tsunami, etc.) An interagency group may be established to develop these multihazard maps. NTHMP should be aware of this effort.

John Schelling stated that the FEMA Risk Map program is doing this and funding it.

c. Tsunami Coordinator position at USGS

Kevin Miller: Made a motion to request a letter of support from the NTHMP for a Tsunami Coordinator to be appointed at the USGS. Kevin Richards seconded the motion.

Nate Woods: the USGS does not have a Tsunami Program. However, the USGS has a practice of having a coordinator for activities like wildfire for which they don't have a program.

Mike Angove: Who would they coordinate with? NOAA, NTHMP?

Nate Woods: Yes, both.

Rick Wilson: Dr. Applegate at USGS was approached about this matter about five years ago. A finding of the most recent workshop with the USGS is that a USGS Tsunami Coordinator is needed and a good idea.

Mike Angove: there is interest at the USGS to establish a Tsunami Coordinator. A reasonable approach is to advise that the NTHMP & NOAA agree with that.

Grant Cooper: We should assign this to Mike Angove to follow up with Dr. Applegate at USGS.

Grant Cooper: Recommended that the motion be tabled indefinitely until Mike Angove has had contact with Dr. Applegate at the USGS. Kevin Miller accepted the request to table the motion. Kevin Richards seconded. The motion to table was accepted unanimously.

d. Expression of thanks

Grant Cooper: thanked Rocky Lopes for organizing all of the meetings this week. The members also expressed their appreciation.

14. Adjourn

The meeting was adjourned at 10:35am PST by NTHMP Chair Grant Cooper.

Approved by Chair Cooper 02/08/2016

Respectfully submitted,

Rocky Lopes  
NTHMP Administrator

1. Call to order: Chair Grant Cooper called the meeting to order at 3:00pm EDST.

2. Roll Call

NOAA

Mr. Mike Angove\*, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Grant Cooper, NWS Western Region Director, Salt Lake City, UT  
Ms. Marie Eblé\*, NOAA Pacific Marine Environmental Lab, Seattle, WA  
Dr. Laura Kong\*, International Tsunami Information Center, Honolulu, HI  
Mr. Lewis Kozlosky\*, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Rocky Lopes\*, NOAA/National Weather Service HQ, Silver Spring, MD  
Ms. Christa Rabenold\*, Tsunami Program, NWS HQ, Silver Spring, MD  
Dr. Vasily Titov, Pacific Marine Environmental Laboratory, Seattle, WA  
Ms. Christa VonHillebrandt\*, Caribbean Tsunami Warning Program, Mayagüez, PR  
Mr. Paul Whitmore, National Tsunami Warning Center, Palmer, AK

FEMA

Ms. Tamra Biasco, FEMA Region 10, Lynnwood, WA

USGS

Ms. Stephanie Ross, USGS Menlo Park, CA  
Dr. Nate Wood, USGS Portland

Alaska

Mr. Dan Belanger, Alaska DHSEM, Anchorage, AK  
Dr. Dmitry Nicolsky, University of Alaska at Fairbanks, Fairbanks, AK

American Samoa

Ms. Jacinta Brown, American Samoa Dept. of Homeland Security, Pago Pago, AS  
Ms. Elinor Lutu-McMoore, National Weather Service, Pago Pago, AS

California

Mr. Kevin Miller, California Office of Emergency Services, San Francisco, CA  
Mr. Rick Wilson, California Geological Survey, Sacramento, CA

Commonwealth of the Northern Mariana Islands

No representatives

East Coast States

Dr. Jim Kirby, University of Delaware, Newark, DE

Guam

Mr. Chip Guard, National Weather Service, Agana Heights, Guam

Gulf Coast States

Dr. Juan Horrillo, Texas A&M University at Galveston, Galveston, TX

Hawaii

Mr. Kevin Richards, Hawaii Emergency Management Agency, Honolulu, HI

Oregon

No representatives

Puerto Rico

Dr. Victor Huérfano, Puerto Rico Seismic Network, Mayagüez, PR

U.S. Virgin Islands

Ms. Mona Barnes, USVI Territorial Emergency Mgmt Agency, St. Thomas, VI  
Mr. Roy Watlington, Professor Emeritus, St. Thomas, VI

Washington

Mr. Maximilian Dixon, Washington EMD, Camp Murray, WA  
Mr. Tim Walsh, Washington Division of Natural Resources, Olympia, WA

28 present, 9 state votes (min 7); 5 Fed votes (min 4). Quorum requirement was met.

\*Non-voting; ex-officio or guest 7).

3. Minutes of Coordinating Committee meeting of May 17, 2016.

Chair Grant Cooper called for approval of the minutes. With no objections, the minutes of the May 17 meeting were approved.

4. Update from Mitigation & Education Subcommittee

See Mitigation & Education Subcommittee Report as Attachment 1 to these minutes.

5. [INFO] Update from Mapping & Modeling Subcommittee

a. Landslide Workshop

Jim Kirby reported that the MMS Landslide workshop has been scheduled January 9 – 11 in Galveston, TX, and will be hosted by Juan Horrillo of Texas A&M University at Galveston. Dr. Kirby and Dr. Grilli will meet soon to plan a workshop agenda with cases to study for benchmarks. An invitation list for those who can be funded through a small FY14 NTHMP grant award to the University of Delaware is being developed in coordination with MMS Co-Chairs.

Rocky Lopes stated that the following NTHMP partners requested and were approved to have travel funds in their FY16 NTHMP grants to sponsor travel for one person to this workshop: Alaska (subaward to Univ. of Alaska), California (subaward to California Geological Survey), Delaware (subaward to Univ. of Rhode Island), Gulf Coast (Texas A&M), Hawaii (subaward to Univ. of Hawaii), Oregon (DOGAMI), Puerto Rico (UPRM), U.S. Virgin Islands (VITEMA), Washington (subaward to Washington DNR). Note: Texas A&M may use grant funding in the travel object class awarded for workshop travel to cover meeting hosting costs including ground transportation.

Rocky also stated that the National Weather Service Headquarters will not be offering invitational travel for anyone to attend this workshop.

b. MMS activities

Marie Eblé reported that the MMS held a conference call on July 5 with MMS members. Discussions included criteria or policy for benchmarking new models. Dmitry and Marie will develop a draft policy for review with MMS members.

Dmitry Nicolsky stated that he is formalizing the MMS portion of the maritime guidance in advance of the upcoming MES meeting, including minimum safe offshore depth. He is preparing a table to be published on the NTHMP website with this information, starting with the Pacific Coast first; East Coast and Caribbean information will follow.

Jim Kirby stated that due to the long Atlantic continental shelf, the recommended offshore safe tsunami depths will not look anything like they will for the West Coast.

Dmitry Nicolsky said that the MMS is looking to hold the Science Exchange Meeting at the end of May, 2017, on the East Coast, which is at a time more convenient for University faculty.

Rocky Lopes clarified that the MMS Science Exchange Meeting is the new name for the "MMS Summer Meeting." The primary funding source is NTHMP grants for MMS members from Alaska, California, East Coast, Gulf of Mexico, Hawaii, Oregon, Puerto Rico, U.S. Virgin Islands, and Washington. Currently there is a budget plan at NWS Headquarters to offer invitational (or NOAA direct cite) travel support for MMS members for NOAA employees from American Samoa and Guam, as well as any MMS Co-Chair member who cannot travel on grant funds to attend this meeting.

Kevin Miller asked: will you be sending an updated maritime guidance document? Dmitry Nicolsky said that he would send it to Kevin for use at the MES meeting.

#### 6. Update from Warning Coordination Subcommittee

On behalf of the WCS, Co-Chair Paul Whitmore reviewed progress on the WCS Actions Chart. Paul stated that a Service Change Notice will be issued about combining tsunami information statements and earthquake information bulletins into one Tsunami Information Bulletin effective 8/16/2016. Also effective that date, tsunami messages from the NOAA National Tsunami Warning Center will be transitioning to mixed case, rather than all upper case.

Paul stated that the website consolidation for both Tsunami Warning Centers is ongoing for implementation in the Fall.

Christa VonHillebrandt asked, "the new website might be ready by Fall? Will that affect transition of Caribbean alert services from NTWC to PTWC by Sept. 30?"

Paul Whitmore replied that this work is very complex, and while it remains highest of priority, he cannot promise an exact date. When the new site is ready, it will undergo testing and review. When it is fully operational and approved, a Service Change Notice will be issued to advise the date the new website and Caribbean transition will be effective.

Paul stated that they are looking at moving the warning coordination effectiveness survey to Hawaii.

Paul also asked about the status of coastal zone alerting for Wireless Emergency Alerts for Southern California.

Mike Angove replied that we recognize the need to do this, but management has advised that we need to look at this issue more broadly. We are in a holding pattern pending inclusion of other hazards.

Victor Huérfino asked about the status of OPSNET transition for Puerto Rico.

Paul Whitmore said that he asked the OPSNET group two months ago for action; no response was received. He will follow up with them.

## 7. Plans for NTHMP Annual Meeting

Rocky Lopes stated that the dates and location for the NTHMP Annual and related subcommittee and work group meetings has been selected: January 30 to February 3, 2017, in Portland, Oregon.

Preliminary information is on this page of the NTHMP website:  
<http://nws.weather.gov/nthmp/2017annualmeeting/index.html>

Lopes reviewed the planned schedule of meetings as the NTHMP Coordinating Committee requested at the February 5, 2016, meeting. After a thorough explanation of the planned meeting days, full days Monday through Friday of that week, Lopes asked for and received confirmation of the schedule.

Coordinating Committee members should be aware and plan that they will be expected to attend five full days of meetings starting Monday January 30 in the morning and ending Friday February 3 afternoon, and that travel on weekend days before and after the meeting likely will be necessary. There was no objection to this schedule – so mark your calendars!

Funding for fully appointed Coordinating Committee members will be a hybrid. These partners will have funds in their FY16 NTHMP grant to cover travel for:

- a. Two representatives: Alaska, California, Hawaii, Oregon, and U.S. Virgin Islands, and Washington.
- b. One representative: American Samoa (EM rep), East Coast (Univ. of Delaware—Science Rep), Guam (EM rep), Gulf Coast (Texas A&M University—Science Rep), and Puerto Rico (Univ. of PR—Science Rep).

NOAA/NWS HQ will provide invitational travel (or direct cite) funding for: American Samoa (Science rep), East Coast (EM rep); Guam (Science rep), Gulf Coast (EM rep); Puerto Rico (EM rep); two FEMA employees; NTHMP Subcommittee Co-Chairs who are NOAA employees; NOAA Coordinating Committee voting members; NOAA NWS Tsunami Program Lead. Funding for five (5) NTHMP Reviewers to travel to the Annual Meeting will be included in the Oregon/DOGAMI grant.

Chip Guard asked, "What is the island caucus?"

Kevin Richards explained that this is a non-voting collaborative group of people who represent islands and want to discuss tsunami issues unique to islands. This informal group was agreed to be formed and provided meeting time during the February 5 Coordinating Committee meeting. Kevin said that he intends to get input from island members and develop a loose agenda.

Chair Grant Cooper called for volunteers to serve on Annual Meeting agenda development workgroup with Rocky Lopes. The following people volunteered:

Cinta Brown, American Samoa  
Victor Huérfano, Puerto Rico  
Kevin Miller, California  
Kevin Richards, Hawaii  
Rick Wilson, California  
Paul Whitmore or Althea Rizzo, representing WCS

#### 8. Puerto Rico island-wide TsunamiReady recognition

Victor Huérfano stated that on July 6 at a ceremony held at the Puerto Rico State Emergency Management Agency headquarters in San Juan, the entire island of Puerto Rico was recognized as TsunamiReady. This involved getting all 46 coastal municipalities to achieve individual recognition over an 11-year span, which then resulted in all-island recognition.

Rocky Lopes attended the ceremony and congratulated the team of people who contributed to this success by providing TsunamiReady Champion recognition. The Champions recognized were: Wildamaris Gonzalez, Carolina Hincapié, Dr. Victor Huérfano, Israel Matos, Dr. José Martínez-Cruzado, Prof. Aurelio Mercado, Rafael Mojica, Wilfredo Ramos, Roy Ruiz Vélez, and Alberto Trabal.

#### 9. FY16 NTHMP Grants status

Rocky Lopes reported that Lewis Kozlosky has prepared all the supporting documentation for each grant file, and shepherded each application through the NWS system for funding authorization by the NWS Chief Financial Officer. The FY16 NTHMP grant applications were forwarded to the NOAA Grants Management Division for the next stage of review and processing. This was accomplished ten days before the Grants Management Division deadline, which is a new record. Lewis Kozlosky thanked Rocky Lopes and the review panel for doing an exceptional job of working with the recipients and evaluating each application prior to formal submission in the online system.

Rocky also stated that grantees that have tasks related to siren maintenance will expect to see a Special Award Condition appended to their grants that describes the local support required for siren maintenance.

Chip Guard asked, "Was there an issue about receipt of a grant?"

Rocky Lopes explained that a grantee may not announce that a grant was made based on a recommendation to apply. Public announcement of a NOAA grant may only be made after a grant is awarded and accepted. So please wait to make public statements until you receive and formally accept the grant award.

10. Old Business

There was no old business.

11. New Business

There was no new business.

12. Adjourn

The meeting was adjourned by the Chair at 3:51pm ET.

Respectfully submitted,

Rocky Lopes  
NTHMP Administrator

## ATTACHMENT 1: Mitigation & Education Subcommittee Report

A planning team comprised of the MES Co-Chairs, Rocky Lopes, Kevin Richards, and James Waddell developed a summer meeting agenda, and solicited input from MES membership.

Information has been posted on the NTHMP MES site, along with Participant List, Hotel, Meeting location info <http://nws.weather.gov/nthmp/2016messummer/index.html>

Approximately 30 persons are expected each day.

Key working topics will include Working Sessions:

1. **Maritime Guidance document development for: Part 2 (Tsunami Response, Preparedness, and Education) & Part 3 (Mitigation & Recovery Planning)**
  - a. Please read ahead (document to be provided to all members) and be prepared to discuss your status using the below form/template:
  - b. Each State/territory bring a status summary/white paper of their maritime o (Provide members questions to help provide Common Topics to Discuss)
    - i. What is your recommended offshore depth?
    - ii. Current maritime R&D/planning work status? (Where do people see themselves in 5 years.)
    - iii. Bring any existing, local Maritime Preparedness materials by various partners (Playbooks, technical/science)
2. **Evacuation approaches, vulnerability assessment, and studies;** Nate Wood, Kevin Miller
  - a. Status: Review of what modeling is existing in select State/Territory examples (a couple to report out) o Understanding population in hazard zone and how to address evacuating them
  - b. Goal of an NTHMP MES Online Resource page
  - c. Discuss combining two papers:
    - i. MMS: Guidelines and Best Practices for Tsunami Inundation Mapping for Evacuation Planning, here: [http://nws.weather.gov/nthmp/documents/NTHMP\\_Modeling\\_Mapping\\_Guidelines.pdf](http://nws.weather.gov/nthmp/documents/NTHMP_Modeling_Mapping_Guidelines.pdf) **start on page 4**
    - ii. MES: Guidelines and Best Practices for Tsunami Evacuation Mapping <http://nws.weather.gov/nthmp/documents/NTHMPTsunamiEvacuationMappingGuidelines.pdf>
  - d. Action: Where do we go from here? Discuss development of online resource (NTHMP MES webpage development)
  - e. Future direction: Goal of Guidance Paper to be developed in 2018-2023 Strategic Plan
3. **TsunamiReady Supporter MES Feedback, TsunamiReady Tier Two MES Feedback, Announce/Show: TsunamiReady COMET Training (online)**

Other updates include HAZUS Tsunami Module development and EERI School Earthquake Safety Initiative Tsunami Subcommittee, both of which will mutually benefit from MES engagement.

1. Call to order: Chair Grant Cooper called the meeting to order at 3:02pm EDST.

2. Roll call

NOAA

Dr. Grant Cooper, NWS Western Region Director, Salt Lake City, UT  
Ms. Marie Eblé\*, NOAA Pacific Marine Environmental Lab, Seattle, WA  
Ms. Kara Gately\*, National Tsunami Warning Center, Palmer, AK  
Dr. Laura Kong\*, International Tsunami Information Center, Honolulu, HI  
Mr. Lewis Kozlosky\*, NOAA/National Weather Service HQ, Silver Spring, MD  
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Dr. Charles McCreerey\*, Pacific Tsunami Warning Center, Honolulu, HI  
Ms. Christa Rabenold\*, Tsunami Program, NWS HQ, Silver Spring, MD  
Dr. Vasily Titov, Pacific Marine Environmental Laboratory, Seattle, WA  
Mr. Paul Whitmore, National Tsunami Warning Center, Palmer, AK

FEMA

Ms. Gala Gulacsik\*, FEMA Region 10, Lynnwood, WA

USGS

Ms. Stephanie Ross, USGS Menlo Park, CA

Alaska

Mr. Dan Belanger, Alaska DHSEM, Anchorage, AK  
Dr. Dmitry Nicolsky, University of Alaska at Fairbanks, Fairbanks, AK

American Samoa

Ms. Jacinta Brown, American Samoa DHS, Pago Pago, AS  
Ms. Elinor Lutu\_McMoore\*, Weather Service Office, Pago Pago, AS

California

Mr. Kevin Miller, California Office of Emergency Services, San Francisco, CA  
Mr. Rick Wilson, California Geological Survey, Sacramento, CA

Commonwealth of the Northern Mariana Islands

No representatives

East Coast States

Mr. Ed Fratto, Northeast States Emergency Consortium, Boston, MA  
Dr. Stephan Grilli, University of Rhode Island, Kingston, RI

Guam

Mr. Chip Guard\*, NWS Forecast Office, Barrigada, Guam  
Ms. Pilar Carbullido, Guam HS/EM, Agana Heights, Guam

Gulf Coast States

Dr. Juan Horillo, Texas A&M University at Galveston, Galveston, TX  
Mr. Chayne Sparagowski, Coastal Bend Council of Governments, Corpus Christi, TX

Hawaii

Mr. Kevin Richards, Hawaii Emergency Management Agency, Honolulu, HI

Oregon

Dr. Althea Rizzo, Oregon Dept. of Emergency Management, Salem, OR

Puerto Rico

Dr. Victor Huerfano, Puerto Rico Seismic Network, Mayaguez, PR  
Mr. Wilfredo Ramos, Puerto Rico Emergency Management Agency, San Juan, PR

U.S. Virgin Islands

Ms. Kieran Isidore\*, U.S. Virgin Islands Territorial Emergency Mgmt Agency, St. Thomas, VI  
Mr. Roy Wattlington, Professor Emeritus, St. Thomas, VI

Washington

Ms. Tabitha Laird\*, Washington EMD, Camp Murray, WA  
Mr. Tim Walsh, Washington Division of Natural Resources, Olympia, WA

32 present, 10.5 state votes (min 7); 3 Fed votes. Quorum requirement was met.

\*Non-voting; ex-officio or guest 12).

## 2. Minutes of Coordinating Committee meeting of February 5, 2016.

Kevin Richards moved to approve the minutes. Cooper seconded and called for acclamation. With no objection, the minutes of February 5, 2016, were approved.

## 3. Update from Mitigation & Education Subcommittee

- a. Gala Gulacsik reported that the MES will be holding a webinar before the summer meeting. A doodle poll will be sent to MES members to select a date.
- b. Travel logistics: Rocky Lopes reported that most MES members have registered for the MES summer meeting which will be held July 26 – 28 in Lynnwood, Washington – hosted by FEMA Region X. A few MES members have not registered or reserved a hotel room. We have a limited block of rooms, so if you are coming but haven't registered or reserved a room, please do so immediately. Wait for further instructions on making airline arrangements.

Dan Belanger asked, "when will invitational travel be issued?" Rocky responded that he hoped that travel orders can be issued in about two weeks, which is much earlier than usual because the number of people receiving invitational travel is less than the threshold that invokes the requirement to submit a NOAA group travel request.

### c. Other MES activities

Laura Kong reported that at the Global Tsunami Warning System meeting held recently in Paris in February, two items resulted from it in which NTHMP efforts have been engaged: 1) tsunami evacuation and planning, with efforts to develop guidance on how to construct an evacuation map. Dr. Kong stated that she wanted to get NTHMP partner best practices on these efforts. 2) consolidation of guidance on ports for marine preparedness. Dr. Kong will be engaging the NTHMP's MMS for this guidance.

## 4. Update from Mapping & Modeling Subcommittee

Marie Eblé stated that the MMS is in transition of NOAA CO-chairs from Kara to Marie. The MMS is engaged in finalizing the currents benchmarking report (this is a result of the workshop held before the 2015 Annual Meeting). (Dmitry Nicolski reported on this work this as well.)

Kara Gately asked for clarification of what MMS meetings will be supported during FY2017. Rocky Lopes stated that NTHMP grantees were asked to request travel in each of their respective FY16 NTHMP grant requests for travel to participate in a two-day "Landslide Workshop" (not all NTHMP partners may choose to participate) and a three-day "MMS Science Exchange Meeting." Dates for the workshop and science

meeting will be determined by the MMS. Grantees can use funds from NTHMP grants to attend these meetings (provided funding is approved and awarded). NWS Headquarters will not be providing invitational travel for anyone to attend either of these meetings due to budget cuts for FY17 and a cap on travel impacting all of NOAA.

Stephanie Ross and Kara Gately reported that “state needs from the USGS and how the USGS can help the states” has been developed and is under review by the MMS. Any final inputs or edits are requested by the MMS Co-Chairs.

Dmitry Nicolsky reported that a new model for tsunami inundation was submitted to the MMS. Subcommittee members are looking at it. He is also sending it to reviewers to determine if the model can meet certain requirements.

Kara Gately said that she will be sending a doodle poll to select dates for the next MMS meeting. She will request input again for the “state needs” report (if any).

Rick Wilson asked, “did Mike Angove meet with David Applegate?” Rocky Lopes responded to say that yes, he did, but Mike met with Dr. Applegate alone and that Mike can report on this himself next time he is on a Coordinating Committee call.

Stephanie Ross reported that she just received approval to release all USGS presentations given at the NTHMP/USGS workshop February 1-2. She will be sending those presentations to Rocky for posting on the NTHMP website today.

Kara Gately reported:

- During the MMS meeting in Boulder, there was a discussion about maritime guidance. The MMS is working on it; will finalize soon. They are also finalizing their recommendations for off-shore safety depth.
- The MMS is setting dates for future technical meetings – landslide workshop and scientific exchange meeting.
- Ensemble modeling is encouraged.
- Inundation benchmarks will be advertised on the tsunami bulletin board for review, and then be followed by a presentation.
- Notes from the MMS meetings in Boulder are under review and should be finalized soon and sent to Rocky for posting on the NTHMP website.

Marie Eblé thanked Kara again in her service as MMS Co-Chair for the last two years.

## 5. Update from Warning Coordination Subcommittee

Paul Whitmore reported on behalf of the WCS:

- WCS to start re-creating the Warning Effectiveness Survey this month and will share with Hawaii CD who will host the survey.
- TWCs have started dialog on combining the two different types of Tsunami Information Statements that are issued into one as suggested at the last

meeting. Should have a plan to go forward by next meeting.

- NTWC TWS training to be held last week of August if there is sufficient interest and attendee ability to cover travel costs.
- WCS Terms of References Updated as discussed at last meeting.
- Southern CA WEA activation by polygon - no progress to date.
- San Onofre State Beach break point changed to Orange/San Diego County Line - will be implemented in April.
- Tweb development - PMEL developers still on track to deliver operational capability by October.
- GNSS Meeting - NTWC hosted a meeting with PTWC and 5 groups of researchers at Palmer in early-March. The new techniques hold promise to deliver more accurate tsunami source characterization faster than presently possible, and a first level implementation is planned for this fall.

Dr. McCreery stated that the schedule to transfer domestic products for Puerto Rico and the U.S. Virgin Islands was changed to March 1, but we agreed that the transfer wouldn't happen until the PTWC website can support it. Changes that can make it operational are with NIDS (the NWS server support office). If they can't do it soon, then the transfer may need to be pushed to May 1.

Lewis Kozlosky said that the Service Change Notice (announcement about such changes) will state that the transfer will be indeterminate until we have affirmation that the website is working.

Kevin Richards asked whether we are holding up something important to Puerto Rico just because of the website.

Chip McCreery replied that there is no break in service; it's only the timing of a transfer of service providers from NTWC to PTWC that is delayed.

## 6. Modeling archiving update

Rick Wilson reported that we are looking for a location to hold benchmarking modeling data in an archive. He contacted Kelly Stroker at NCEI to explore options there. There are many questions going back and forth. He is bringing MMS Co-Chairs into the conversation. By our next meeting, he will have more to report.

Rocky Lopes added that if there is a cost for this archiving service, the funds would have to come from the "NTHMP support" funds (aka NTHMP grant pool), and if we need those funds this year, we need to know by late next week or we'll miss the window for this year's funds and will have to wait until next year (provided Congress restores the funds to the NWS budget, as the funds were once again requested by NOAA to be deleted in the President's Budget.)

Dmitry Nicolsky asked, "is tsunami inundation modeling workshop data included?"

Rick Wilson replied, "we can consider that if you wish. Please send details describing it to me."

## 7. NTHMP External Review update

Rocky Lopes reported that he worked with a work group to nominate people for him to ask if they would serve as a reviewer to conduct the five year NTHMP review as previously done in years past.

The understanding during the February 5 NTHMP meeting was that we would find a way to fund travel for five reviewers to attend next year's NTHMP annual meeting and subcommittee meetings, and that they would each write a report. NTHMP grants or NOAA cannot pay a stipend or consulting fee.

Lopes asked, and was informed, that NOAA/NWS will not be able to provide invitational travel for reviewers. He therefore asked Jon Allen from Oregon DOGAMI to add a travel task to their FY16 NTHMP grant request specifically to cover travel costs for reviewers. Jon did that, so the travel funding issue has been handled.

Lopes said that 14 well-regarded people have been nominated to serve as a reviewer. Lopes asked the work group members to help winnow down the list by ranking them. Lopes will take that input and contact people to inquire their willingness to serve under the constraints described.

## 8. FY16 NTHMP Grants status

Rocky Lopes stated that the NTHMP Federal Grant Review Panel completed its review ahead of schedule. He thanked all grantees for responding quickly to questions that were asked as a part of this process. Lopes will provide formal recommendations to Dr. Cooper shortly.

Upon review, adjustment and/or concurrence, Dr. Cooper (through Lopes) will provide his recommendations to NWS Management for approval. Lopes anticipates being able to provide notice of what tasks and funds were approved to each grantee by sometime in April, at which time NTHMP partners will be asked to respond to a formal Request for Application (RFA) through grants.gov – SOP as in years past.

## 9. NTHMP website update

Rocky Lopes reported that since the NTHMP website was migrated to the NWS Tsunami Program, it has been easy to update it almost in real time.

The top most-visited sections of the website include:

- "About NTHMP" page
- Tsunami Preparedness week pages (highly popular year-round)
- Sections about each NTHMP subcommittee

- Tsunami Safety Fact Sheet

Lopes stated that while information about visitors is anonymous, it is possible to tell what domains, states, and countries they come from. The NTHMP website receives 200 to 500 unique visitors each day from all over the world. After the United States, the following countries have people who visit the website often: Canada, Australia, Indonesia, Sri Lanka, and India. Visitors from state agencies as well as from the U.S. Congress frequently view pages on the site.

Victor Huerfano reported that Puerto Rico got more than 100,000 people to register for the CARIBEWAVE16 exercise via tsunamizone.org.

Lopes clarified that tsunamizone.org is managed by the University of Southern California under contract with California OES from NTHMP grant funding. It's not the same website, but they are related and linked.

Dr. Cooper thanked Lopes and Rabenold for their work to maintain NTHMP website.

#### 10. Old Business

There was no old business.

#### 11. New Business

There was no new business.

#### 12. Adjourn

Dr. Cooper reminded everyone that the next meeting will be on May 17. Lopes will send the usual reminders.

Dr. Cooper adjourned the meeting 3:52pm.

Approved by Chair Cooper: \_\_\_\_\_ (date)

Respectfully submitted,

Rocky Lopes  
NTHMP Administrator

1. Call to order: Chair Grant Cooper called the meeting to order at 3:02pm EDST.

2. Roll Call

NOAA

Mr. Mike Angove\*, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Grant Cooper, NWS Western Region Director, Salt Lake City, UT  
Ms. Marie Eblé\*, NOAA Pacific Marine Environmental Lab, Seattle, WA  
Dr. Laura Kong\*, International Tsunami Information Center, Honolulu, HI  
Mr. Lewis Kozlosky\*, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Rocky Lopes\*, NOAA/National Weather Service HQ, Silver Spring, MD  
Ms. Christa Rabenold\*, Tsunami Program, NWS HQ, Silver Spring, MD  
Dr. Vasily Titov, Pacific Marine Environmental Laboratory, Seattle, WA  
Ms. Christa VonHillebrandt\*, Caribbean Tsunami Warning Program, Mayagüez, PR  
Mr. Paul Whitmore, National Tsunami Warning Center, Palmer, AK

FEMA

Ms. Tamra Biasco, FEMA Region 10, Lynnwood, WA  
Mr. Mike Mahoney, FEMA HQ, Washington, DC

USGS

Ms. Stephanie Ross, USGS Menlo Park, CA  
Dr. Nate Wood, USGS Portland

Alaska

Ms. Ann Gravier (designated Alternate), Alaska DHSEM, Anchorage, AK  
Dr. Dmitry Nicolsky, University of Alaska at Fairbanks, Fairbanks, AK

American Samoa

No representatives

California

Mr. Kevin Miller, California Office of Emergency Services, San Francisco, CA  
Mr. Rick Wilson, California Geological Survey, Sacramento, CA

Commonwealth of the Northern Mariana Islands

No representatives

East Coast States

Mr. Ed Fratto, Northeast States Emergency Consortium, Boston, MA

Guam

Ms. Pilar Carbullido, Guam HS/EM, Agana Heights, Guam

Gulf Coast States

Mr. Chayne Sparagowski, Coastal Bend Council of Governments, Corpus Christi, TX

Hawaii

Mr. Kevin Richards, Hawaii Emergency Management Agency, Honolulu, HI

Oregon

Dr. Jon Allen, Oregon Dept. of Geology & Mineral Industries, Portland, OR  
Dr. Althea Rizzo, Oregon Dept. of Emergency Management, Salem, OR

Puerto Rico

Dr. Victor Huerfano, Puerto Rico Seismic Network, Mayagüez, PR  
Mr. Wilfredo Ramos, Puerto Rico Emergency Management Agency, San Juan, PR

U.S. Virgin Islands

Ms. Mona Barnes, USVI Territorial Emergency Mgmt Agency, St. Thomas, VI  
Ms. Kieran Isidore\* USVI Territorial EMA, St. Thomas, VI (Guest)  
Mr. Roy Watlington, Professor Emeritus, St. Thomas, VI

Washington

Mr. Maximilian Dixon, Washington EMD, Camp Murray, WA  
Mr. Tim Walsh, Washington Division of Natural Resources, Olympia, WA

31 present, 10 state votes (min 7); 6 Fed votes (min 4). Quorum requirement was met.

\*Non-voting; ex-officio or guest 8).

3. Minutes of Coordinating Committee meeting of March 22, 2016.

The minutes were approved as submitted without exception.

4. Welcome Maximilian Dixon, Emergency Management member for the State of Washington

NTHMP Chair Grant Cooper welcomed the Coordinating Committee's newest member, Maximilian Dixon of the State of Washington Emergency Management Division. Mr. Dixon introduced himself to the group.

5. Update from Mitigation & Education Subcommittee

The following report was given by Kevin Miller, MES Co-Chair:

The MES convened a business meeting via webinar on May 10 during which the following topics presented and discussed:

- an online platform for accessing local maps and evacuation planning and hazard assessment/vulnerability summaries across the states and territories for coordination among members.
- an update on post-tsunami protocols (ITIC, HI, CA)
- an update on outreach and education from Oregon OEM, including Oregon OEM's Tsunami wayfinding project implemented in four communities and developing a tsunami comic book with Dark Horse Comics scheduled to release in September 2016
- an update from FEMA Region X on the HAZUS tsunami module expected to be integrated with the HAZUS version release approximately second quarter of FY17
- plans to update the Maritime Mapping Guidance.

The MES membership also discussed use of a file-sharing, project management, communications project management tool available online, such as Basecamp. This capability may be supported by FEMA and will be tested in the coming weeks/months.

A core group of volunteers will meet to assist with continuing development of the summer MES Meeting agenda. This meeting will be held July 26-28, 2016 in Lynnwood, WA at FEMA Region IX offices. More information is on the NTHMP website here:

<http://nws.weather.gov/nthmp/2016messummer/index.html>

## 6. Update from Mapping & Modeling Subcommittee

The following updates were provided by Co-Chairs Dimitry Nicolsky and Marie Eblé:

- the MMS is looking at hosting its Landslide Workshop in Galveston, Texas, in late December or early January. The MMS will determine the dates through a doodle poll.
- No further planning has been done yet on dates and location of an MMS Scientific Exchange Meeting.
- The MMS is still working on maritime safety offshore depth recommendations.

## 7. Update from Warning Coordination Subcommittee

The following report was provided by Co-Chair Paul Whitmore:

- NTWC/PTWC have started the merge of their respective web sites into one which will provide a unified view of the threat level. Expected completion this summer.
- Due to travel restrictions, the announced TWS training at NTWC planned for August, 2016 has been delayed until Spring 2017 – tentatively the week of April 5, 2017.
- NTWC messages will be modified over the next few months to use upper/lower case text, and all regular grammar. This follows an NWS-wide implementation of new message protocols.
- Wireless Emergency Alert restriction for Southern CA to limit text messages to the coast has been entered into the NWS Requirements system. Completion date unknown at this time.
- Tweb status: Development continues at PMEL using ESRI as a geographic base. Not enough for wider review yet. Target date for completion is Fall 2016.
- Tsunami Seismic Information Statements (EQI) are being merged into Tsunami Information Statements (TIB).

Christa VonHillebrandt asked: what websites are being consolidated?

Whitmore replied: Both NTWC & PTWC websites are being consolidated onto tsunami.gov

## 8. NTHMP travel reimbursements for NWS-issued invitational travel

Mike Angove stated that it is the traveler's responsibility to ensure you receive your reimbursement. Also make sure that you submit your travel voucher in a timely manner after completing travel so we can reimburse you.

9. Code change to add ASCE 7 Chapter 6 "Tsunami" into the International Building Code

Mike Mahoney reported that the main consensus building design standard (ASCE 7) added a new chapter on tsunami loads. This project was chaired by Gary Chock with participation from some state NTHMP partners. This chapter passed the ASCE consensus ballot process a few months ago and will be included as Chapter 6 in the next edition, which will be ASCE 7-16.

This new chapter was submitted as a proposed change to the International Code Council (ICC) for addition to the 2018 edition of the International Building Code.

Three weeks ago, the tsunami chapter was recommended for approval at the ICC Code Change Hearings. It will go forward for public review. A final vote will be taken before final ICC membership in Fall, 2016. IBC Appendix M – the former tsunami-related material -- will remain, but a change was also submitted to ICC and recommended for approval so that its focus will be only on tsunami vertical evacuation refuge, with confusing or duplicative content removed.

10. [INFO] FY16 NTHMP Grants status

Rocky Lopes reported that the FY16 NTHMP grant application process remains on track. Final grant applications are due by midnight EDST, Friday, May 20.

New to the grant package this year includes a NEPA checklist where information about compliance with NEPA and historical preservation laws are reviewed. Be sure to include that checklist with the application package when submitted.

Rocky has offered to help grantees with the difficult embedded Excel files in the Budget Narrative if needed. He can explain or fix columns to remove decimals and rounding errors on request.

Rocky reminded grantees that they may adjust or tweak final budget numbers as long as: 1) the final top line amount approved by the NWS is not exceeded; and 2) no new tasks that were not previously reviewed by the Federal Grant Panel are added. You can delete tasks or subtasks; you just can't add new ones.

As of the date/time of this Coordinating Committee meeting, final applications have been received from American Samoa, Hawaii, and Oregon.

Lewis Kozlosky will evaluate and begin processing the applications, and will download application files for Rocky to review to ensure consistency with approved grant recommendations. Grantees will be notified if there are any discrepancies.

The process moving forward is that the NOAA Grants Management Division will conduct its formal review, including Legal Review. Past experience indicates that the Grants Specialist may have questions. Usually at some point in July or early

August, questions may be sent by Rocky or Lewis to grantees to answer. Please make sure answers are provided in a timely manner so the awards schedule may proceed as planned.

Also, please do not announce projects or funding for an FY16 NTHMP grant publicly until you receive a grant award and you accept it. Premature announcement of a grant can pose serious problems for a grantee and the Tsunami Program office at NOAA/NWS HQ.

Althea Rizzo asked: is assistance available to conduct an environmental assessment?

Rocky Lopes answered: The NOAA/NWS Tsunami Program or the NTHMP grants fund do not have financial resources to support costs for an environmental assessment. Since we cannot fund an environmental assessment, if you think you may have an issue, please discuss it with us and we'll review on a case-by-case basis.

Mona Barnes asked: Who has applied for an FY16 NTHMP grant already?

Rocky Lopes answered: American Samoa, Hawaii, and Oregon (as of the date/time of this meeting.)

#### 11. Old Business

There was no old business.

#### 12. New Business

Rocky Lopes stated that a 2-page summary on NTHMP tsunami hazard assessment has been drafted by Christa Rabenold at the NWS Tsunami Program Office. She had the draft reviewed carefully by Paula Dunbar of NCEI. Christa will be sending it to NTHMP state/territorial partners for an accuracy check. Please make sure what is stated there is accurate for your state/territory.

There was no other new business.

#### 13. Adjourn

The meeting was adjourned by Chair Grant Cooper at 3:42pm EDST.

Minutes submitted by:  
Rocky Lopes, NTHMP Administrator

1. Call to order: Chair Grant Cooper called the meeting to order at 3:01pm EDST.

2. Roll Call

NOAA

Mr. Mike Angove<sup>1</sup>, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Grant Cooper, NWS Western Region Director, Salt Lake City, UT  
Ms. Marie Eblé<sup>2</sup>, NOAA Pacific Marine Environmental Lab, Seattle, WA  
Dr. Laura Kong, NOAA/NWS – International Tsunami Information Center, Honolulu, HI  
Mr. Lewis Kozlosky<sup>3</sup>, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Rocky Lopes<sup>1</sup>, NOAA/National Weather Service HQ, Silver Spring, MD  
Ms. Christa Rabenold<sup>3</sup>, Tsunami Program, NWS HQ, Silver Spring, MD  
Dr. Vasily Titov, NOAA Pacific Marine Environmental Lab, Seattle, WA  
Ms. Christa VonHillebrandt-Andrade<sup>3</sup>, Caribbean Tsunami Warning Program, Mayagüez, PR  
Mr. Paul Whitmore, National Tsunami Warning Center, Palmer, AK

FEMA

Ms. Tamra Biasco, FEMA Region 10, Lynnwood, WA  
Ms. Gala Gulacsik<sup>2</sup>, FEMA Region 10, Lynnwood, WA  
Mr. Mike Mahoney, FEMA Headquarters, Washington, DC

USGS

Ms. Stephanie Ross, USGS Menlo Park, CA

Alaska

Mr. Dan Belanger, Alaska Homeland Security/Emergency Mgmt, Anchorage, AK

American Samoa

Ms. Elinor Lutu-McMoore<sup>4</sup>, NWS Forecast Office, American Samoa

California

No representatives

Commonwealth of the Northern Mariana Islands

Mr. Chip Guard<sup>4</sup>, NWS Forecast Office, Guam

East Coast States

Dr. Jim Kirby, University of Delaware, Newark, DE

Guam

Mr. Chip Guard<sup>4</sup>, NWS Forecast Office, Guam

Gulf Coast States

Dr. Juan Horrillo, Texas A&M University at Galveston, Galveston, TX

Hawaii

Mr. Kevin Richards, Hawaii Emergency Management Agency, Honolulu, HI

Oregon

Dr. Jonathan Allan, Dept. of Geology and Mineral Industries, Portland, OR

Puerto Rico

Dr. Elizabeth Vanacore<sup>5</sup>, Puerto Rico Seismic Network, Mayagüez, PR

U.S. Virgin Islands

No representatives

Washington

Mr. Maximilian Dixon, Washington EMD, Camp Murray, WA  
Mr. Tim Walsh, Washington Division of Natural Resources, Olympia, WA

24 present, 6.5 state votes (min 7); 6 Fed votes (min 4). Quorum requirement was not met for the state partners, but was met for Federal agency partners.

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<sup>1</sup> Ex-Officio, non-voting

<sup>2</sup> Subcommittee Co-Chair, non-voting

<sup>3</sup> Guest, non-voting

<sup>4</sup> NOAA Employee, non-voting

<sup>5</sup> Designated Alternate for Science Representative

## Chair's opening remarks

NTHMP Chair Dr. Grant Cooper welcomed Gerald Guerrero who is the CNMI Governor's Homeland Security Advisor and was recently appointed to serve as the CNMI Emergency Management representative on the Coordinating Committee. Mr. Chip Guard was appointed to serve as the Science representative for CNMI, having now a dual role in also serving as the Science Representative for Guam as well.

Dr. Cooper reminded Coordinating Committee members to submit biographical statements for the Annual Meeting and one-pagers describing 2016 accomplishments for the 2016 Annual Report to Rocky Lopes.

### 3. Minutes of Coordinating Committee meeting of October 4, 2016.

<http://nws.weather.gov/nthmp/documents/NTHMPCC20161004Minutes.pdf>

Dr. Cooper called for approval of the minutes. The minutes were approved with no objection.

### 4. Update from Mitigation & Education Subcommittee

Laura Kong reported for the MES as follows:

- MES-MMS webinar was held on October 18

See notes:

<http://nws.weather.gov/nthmp/Minutes/mesminutes/MESMeeting20161018.pdf>

- The MES Co-Chairs are developing a draft agenda for the MES meeting on January 30 during the annual meeting.
- MES is having pre-discussions for MES-MMS input to the next NTHMP Strategic Plan.
- Please use Basecamp to track to-dos for MES activities.
- Partners within the MES supported World Tsunami Awareness Day (WTAD) as described in Appendix A of these minutes.
- Mike Angove: we prepared social media and it all came together at the last minute. Since this event will continue in years to come, should we (U.S.) align with WTAD given that states now have their own weeks?
- *Note this motion passed by unanimous consent at the October 4, 2016 NTHMP Coordinating Committee meeting: "The NTHMP would support each state/territory tsunami preparedness campaign timeframe as the respective state designates."*
- Grant Cooper: let's discuss this at the Coordinating Committee meeting during the Annual Meeting. (Lopes took a note for the agenda.)

- Vasily Titov: Former PMEL Director Eddie Bernard was recognized for an award on this day – the Hamaguchi Award presented by Japan. See Appendix B for more information about this award.

## 5. Update from Mapping & Modeling Subcommittee

- a. Landslide Workshop – January 9 – 11, 2017 (Kirby/Grilli)  
<http://nws.weather.gov/nthmp/2017MMSLandslide/index.html>

As of today, there are 32 registrants.

Marie Eblé: It would be useful to have a list and brief description of the models for which results will be presented in advance of the workshop.

Jim Kirby: Agreed. We have plans to post that information about two weeks before the workshop after the AGU Conference in which most participants are attending. 6 domestic / 7 international workshop attendees are receiving travel support through the NTHMP grant awarded to the University of Delaware. People are working on the benchmarks.

Rocky Lopes: The courtesy room block at the Tremont House Hotel has been released. Anyone without a confirmed reservation and who may need housing is on their own. There are a number of hotels in Galveston, and January is an off-peak season, so competitive rates should still be available at other hotel properties.

- b. MMS activities

Marie Eblé reported on behalf of the MMS:

- Three of the four DEMs to be constructed by NCEI for NTHMP in federal FY17 have been decided:
  - Alaska: Bristol Bay DEMs (after data collected in March 2017)
  - Washington: Bellingham Bay to the North (how far TBD)
  - Gulf Coast: Stretch from Miramar Beach to Laguna Beach
  - A few actions before we can pick the fourth DEM for 2017.

The fourth DEM is pending investigation of data availability by NCEI and the gathering of information from specific states. Candidates for the fourth DEM are:

- Swains Island, American Samoa
- Montauk to Narraganset Bay, East Coast
- Puerto Rico (to correct issues with rivers, embayments, etc.)
- California (specific sites unknown)
- USVI (bare earth?)

- MMS submitted reviews of Grantee FY14 progress reports. On the whole, progress was clearly provided and reviewers found efforts by all states to be notable.
- MMS Co-chairs are working on a draft agenda for the January 30 MMS meeting at the Annual Meeting to send to all members. The agenda is ambitious and includes benchmark verification of three inundation models (pending pre-meeting receipt of modeler report):
  - NHWAVE
  - Cliffs
  - HySEA

## 6. Update from Warning Coordination Subcommittee

Paul Whitmore reported on behalf of the WCS:

- Version 1 of Pacifex/Lantex exercise handbooks complete - under review
- Update from NWS Western Region Headquarters on the use of Auto EAS software at Western Region WFOs
- TWC training at NTWC to be held week of April 3, 2017; so far have 9 people who have requested to attend, can handle in the 12-14 range. Contact Paul Whitmore directly if you have a candidate for this training.
- Tsunami.gov status update: this website is combining both the NTWC and PTWC website content and alerts. If you haven't seen it in a while, check it out: <http://www.tsunami.gov>
  - PTWC static content is now included on the site
  - Presently testing PTWC product transfer to the new site

Christa VonHillebrant-Andrade: The CaribeWave 2017 exercise handbook is now available:

[http://tsunami.gov/exercises/Caribewave17\\_Handbook\\_Final.pdf](http://tsunami.gov/exercises/Caribewave17_Handbook_Final.pdf)

## 7. Update on NTHMP Annual Meeting

<http://nws.weather.gov/nthmp/2017annualmeeting/index.html>

Monday, January 30 to Friday, February 3 in Portland, Oregon

Rocky Lopes: as of today, 40 people have registered to attend meetings during Annual Meeting week, plus five Reviewers. The number of pre-registered participants is a bit lower than for the same time last year, but the lower pre-registration may be due to people waiting for Subcommittee agendas before making a final decision to request approval for travel. Also, the NOAA Group Travel request for those supported by NOAA invitational travel is still pending and NOAA employees and invitational travelers cannot make a travel commitment until the NOAA Group Travel request is approved.

Lopes commended subcommittees for indicating that they are developing their respective subcommittee meeting agendas. He provided guidance for agenda content that all subcommittees need to include regarding time for NTHMP

Reviewers to have a dialogue with subcommittee membership as well as time to plan for the respective subcommittee's input to the next NTHMP Strategic Plan.

Lopes reminded everyone that in place of going around the room for introductions, Annual Meeting attendees are asked to fill out and return a "bio statement" with a photo that will be assembled into a "bio book". This was at the request of your peers who wanted to have a reference to place a name with a face. The bio statement template is here:

<http://nws.weather.gov/nthmp/2017annualmeeting/Biostatement.doc>

Lopes also stated that five Reviewers will be at the Annual Meeting for the entire week. They will prepare reports that he will assemble into one report and he intends to have it ready for the NTHMP CC by July. This report will further inform the next NTHMP Strategic Plan.

Marie Eblé: who are the reviewers?

Lopes:

- Dr. Jim Goltz, retired from California OES and former NTHMP Coordinating Committee member
- Ms. Chris Jonientz-Trisler, FEMA Region X Grants Director and former NTHMP Coordinating Committee member and MES Co-Chair
- Mr. Bill Knight, retired Deputy Director of the National Tsunami Warning Center
- Dr. Mike Lindell, internationally recognized social scientist and hazards researcher
- Ms. Patti Sutch, Executive Director of the Western States Seismic Policy Council

## 8. FY17 NTHMP Grants

Rocky Lopes announced that the [FY17 NTHMP Grant Guidance](#) is now available, along with revised and updated Project Narrative, Budget Narrative Explanation, and Budget Spreadsheets for Prime and Subaward partners. All supporting information and templates are available on this page of the NTHMP website: <http://nws.weather.gov/nthmp/grants/reference.html>

Lopes reminded everyone that the Federal Government is operating on a Continuing Budget Resolution through December 9, 2016. Congress must act to pass either a full budget for NOAA or another Continuing Resolution, and the NOAA/NWS CFO must confirm if NTHMP grant funds are included in budget appropriations before we can confirm that we will have NTHMP grants to award in this cycle. Stay tuned.

We are operating on the premise that NTHMP grant funds will be available so that NTHMP partners have adequate time to prepare their respective NTHMP grant pre-applications and that the regular process will be followed according to the schedule published in the [FY17 NTHMP Grant Guidance](#).

A webinar on using the new grant application budget spreadsheets has been scheduled for Wednesday, December 7, at 3:00pm EST via this webinar link: <https://attendee.gotowebinar.com/register/6182646620662326017>  
Webinar ID: 744-627-523. Pre-registration is required.

#### 9. Appointment of FY17 NTHMP Grant Review Panel

Dr. Cooper appointed the following people to serve on the FY17 NTHMP Federal Grant Review Panel: Marie Eblé, NOAA/Pacific Marine Environmental Laboratory; Gala Gulacsik, FEMA Region X; Rocky Lopes, NTHMP Administrator.

#### 10. NTHMP Grant Progress Report Reviews

Rocky Lopes described a legacy issue related to NTHMP grant semi-annual report reviews. In the past when the NTHMP Coordinating Committee reviewed grant proposals and made recommendations for grant awards, the Co-Chairs of the NTHMP subcommittees were designated to review semi-annual progress reports and advise on accepting or rejecting them.

Since NOAA General Counsel advised that the NTHMP Coordinating Committee should not have a deciding or recommending role for NTHMP grants, and also since we have overlapping grant performance periods now, thus introducing more confusion, Rocky recommended that:

- NWS Headquarters Tsunami Program do the official “accept or reject” for semi-annual and final grant progress narratives ... and
- Simultaneously provide the narrative reports to the subcommittee co-chairs for information purposes, but not on a deadline for official review.

Lewis Kozlosky confirmed this recommendation because the current process is antiquated. Review deadlines have been missed by subcommittee co-chairs and reminders have not been successful.

Paul Whitmore agreed that the process is antiquated. Appreciates having reports on informational basis as long as comments will be accepted.

Lopes confirmed that comments on reviews will always be welcome and accepted as communication with grantees occurs on an ongoing basis.

Tamra Biasco: definitely recommend this change. Reviewing the narrative reports was a lot of work. The co-chairs having these reports as information is sufficient, and what is needed for subcommittee decision-making.

This is an administrative action and did not require a vote by the Coordinating Committee. This new process for reviewing semi-annual and final narrative reports is effective immediately.

11. 2016 NTHMP Annual Report

Rocky Lopes thanked the Warning Coordination Subcommittee and Alaska for being the first to submit a one-pager for the 2016 NTHMP Annual Report. All NTHMP partners and the MES & MMS are reminded that their input of a one page description of activities during calendar year 2016 is needed by the end of December, or sooner.

12. Old Business

There was no old business.

13. New Business

There was no new business.

14. The meeting was adjourned by Dr. Cooper at 3:46pm EST. The next meeting will be the in-person meeting on February 3, 2017, in Portland, Oregon.

Respectfully submitted,

Rocky Lopes  
NTHMP Administrator

## Appendix A – World Tsunami Awareness Day Activities

- Hawaii participated in a pre-event conference for World Tsunami Awareness Day on “Communicating Disaster Science,” Sept 15-17, 2016. The conference was sponsored by the International Research Institute of Disaster Science (IRiDeS) of Tohoku University, University of Hawaii College of Social Sciences and Sea Grant, and ITIC. NTHMP Prof Kwok Fai Cheung and Dr. Laura Kong gave talks. The agenda included high-school students and journalists sharing their experiences from the Great East Japan Earthquake and Tsunami, and the first showing of the survivor movie “The Great Tsunami in Japan: Reflecting on the 2011 Disaster.”
- NOAA Caribbean Tsunami Warning Program (Christa von Hillebrandt-Andrade) participated at the invitation of the UNISDR as an observer to Indian Ocean Wave 2016 tsunami exercise in Patisonapur, Odisha, India, September 7, 2016. IOWAVE16 exemplified they key WTAD themes of “effective education and evacuation drills.”
- NOAA/NWS Caribbean Tsunami Warning Program (Christa von Hillebrandt-Andrade) spoke at the Caribbean World Tsunami Awareness Commemoration Activity, Oct 20, 2016, held prior to the Special Committee Meeting of the Disaster Risk Reduction and Transport of the Association of Caribbean States, in Trinidad and Tobago.
- NOAA/NWS International Tsunami Information Center (Laura Kong) moderated the Special Session for the World Tsunami Awareness Day on November 2, 2016 prior to the Asian Ministerial Conference on Disaster Risk Reduction (AMCDRR) in New Dehli, India, and spoke as a panelist at the AMCDRR World Tsunami Awareness Day commemoration on November 5, 2016.
- ITIC Tsunami Awareness materials were distributed at both the Caribbean meeting, and the Asian Ministerial Meeting.

## Appendix B -- Hamaguchi Award

Congratulations to Dr. Eddie Bernard, former Director of NOAA's Pacific Marine Environmental Laboratory, for receiving the inaugural Hamaguchi Award for Enhancement of Tsunami/Coastal Disaster Resilience. This award from the government of Japan recognizes Dr. Bernard's significant contributions to the global tsunami detection, forecast, warning, preparation, and mitigation capability. Dr. Bernard's work has significantly influenced today's comprehensive end-to-end tsunami warning system, which is vital to our Nation's resilience as well as that of our many international partners.

### Background:

The Japanese government, commemorating World Tsunami Awareness Day on November 5, has instituted the Hamaguchi Award for Enhancement of Tsunami/Coastal Disaster Resilience for individuals and/or organizations that have made significant scientific or pragmatic contributions to the enhancement of coastal resilience against tsunami, storm surge and other coastal disasters. The award is named after Mr. Hamaguchi Goryou who protected and saved a village from a tsunami about 150 years ago. The Award Ceremony was held on October 31 in Tokyo.

Dr. Eddie Bernard was one of the three recipients of this inaugural award. During his career Dr. Bernard made extraordinary contributions to the global tsunami detection, forecast, warning, preparation, and mitigation capability. His vision for, and development and implementation of, the Deep-ocean Assessment and Reporting of Tsunami (DART) system represents the single most important advancement in support of tsunami warning systems around the world. As Director of the Pacific Tsunami Warning Center, Chairman of the National Tsunami Hazard Mitigation Program (NTHMP), and Director of the Pacific Marine Environmental Laboratory, his work has significantly influenced today's comprehensive end-to-end tsunami warning system, which is vital to our Nation's resilience as well as that of our many international partners. NOAA's continuing support of the DART system and the NTHMP is a direct result of his hard work.

1. Call to order: Chair Grant Cooper called the meeting to order at 3:01pm EDST.

2. Roll Call

NOAA

Mr. Mike Angove<sup>1</sup>, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Grant Cooper, NWS Western Region Director, Salt Lake City, UT  
Ms. Marie Eblé<sup>2</sup>, NOAA Pacific Marine Environmental Lab, Seattle, WA  
Mr. Lewis Kozlosky<sup>3</sup>, NOAA/National Weather Service HQ, Silver Spring, MD  
Dr. Rocky Lopes<sup>1</sup>, NOAA/National Weather Service HQ, Silver Spring, MD  
Ms. Christa Rabenold<sup>3</sup>, Tsunami Program, NWS HQ, Silver Spring, MD  
Ms. Christa VonHillebrandt<sup>3</sup>, Caribbean Tsunami Warning Program, Mayagüez, PR

FEMA

Ms. Gala Gulacsik<sup>2</sup>, FEMA Region 10, Lynnwood, WA  
Mr. Mike Mahoney, FEMA Headquarters, Washington, DC

USGS

Dr. Nate Wood, USGS Portland

Alaska

Dr. Dmitry Nicolsky, University of Alaska at Fairbanks, Fairbanks, AK

American Samoa

No representatives

California

Mr. Kevin Miller, California Office of Emergency Services, San Francisco, CA  
Mr. Rick Wilson, California Geological Survey, Sacramento, CA

Commonwealth of the Northern Mariana Islands

No representatives

East Coast States

Mr. Ed Fratto, Northeast States Emergency Consortium, Boston, MA  
Dr. Jim Kirby, University of Delaware, Newark, DE

Guam

Mr. Leo Espia<sup>4</sup>, Guam Homeland Security, Agana Heights, Guam

Gulf Coast States

Dr. Juan Horrillo, Texas A&M University at Galveston, Galveston, TX  
Mr. Chayne Sparagowski, Emergency Manager, Corpus Christi, TX

Hawaii

Mr. Kevin Richards, Hawaii Emergency Management Agency, Honolulu, HI

Oregon

Dr. Jonathan Allan, Dept. of Geology and Mineral Industries, Portland, OR  
Dr. Althea Rizzo, Oregon Emergency Management, Salem, OR

Puerto Rico

Dr. Victor Huérfano, Puerto Rico Seismic Network, Mayagüez, PR

U.S. Virgin Islands

Mr. Roy Watlington, Professor Emeritus, St. Thomas, VI

Washington

Mr. Maximilian Dixon, Washington EMD, Camp Murray, WA  
Mr. Tim Walsh, Washington Division of Natural Resources, Olympia, WA

25 present, 9 state votes (min 7); 3 Fed votes (min 4). Quorum requirement was met for the state partners, but not for Federal agency partners due to absence of (2) NOAA members; (1) FEMA member, and (1) USGS member.

Note: Leo Espia of Guam Homeland Security introduced himself and explained that Ms. Pilar Carbullido has left GHS and has moved to California. Until a replacement is determined and formally appointed to the NTHMP Coordinating Committee, Mr. Espia will be representing Guam.

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<sup>1</sup> Ex-Officio, non-voting

<sup>2</sup> Subcommittee Co-Chair, non-voting

<sup>3</sup> Guest, non-voting

<sup>4</sup> Guest, non-voting, pending official appointment to Coordinating Committee

### 3. Minutes of Coordinating Committee meeting of July 12, 2016

Chair Grant Cooper called for approval of the minutes. With no objections, the minutes of the July 12 meeting were approved.

### 4. Update from Mitigation & Education Subcommittee

Kevin Miller spoke on behalf of the MES. A written report is appended to these minutes and are incorporated by reference.

Christa Rabenold added: The NTHMP historic tsunami calendar has been completed as have draft social media messages for World Tsunami Awareness Day of November 5.

### 5. Update from Mapping & Modeling Subcommittee

#### a. Landslide Workshop – January 9 – 11, 2016

Jim Kirby: we are offering a first cut of benchmarks to provide to workshop organizers to review. Websites have been constructed and posted:  
NTHMP: <http://nws.weather.gov/nthmp/2017MMSLandslide/index.html>  
University of Delaware: <http://www1.udel.edu/kirby/nthmp/landslides.html>  
We anticipate providing information for the participants by the end of September.

Marie Eblé asked: is there concern about amount of time modelers will have to work on benchmarks?

Kirby: I don't think we will have trouble with this. There may be questions about which benchmarks have been selected and we will work with those who have questions.

#### b. MMS activities

Dmitry Nicolsky spoke on behalf of the MMS. An MMS teleconference was held last month. We discussed:

- Tsunami currents workshop report: the report was accepted as a deliverable and we are moving forward with it.
- Compilation of tsunami DEMs requests from NTHMP partners to establish updated priority list for NCEI.

Marie Eblé added: we are working with Christa Rabenold on Maritime Guidance documents consolidation.

## 6. Update from Warning Coordination Subcommittee

Paul Whitmore was not present at the meeting, but submitted the following report in advance. Rocky Lopes read it to the meeting attendees:

- Warning Effectiveness Survey - survey passed to Tsunami Program for OMB clearance. The request for OMB clearance is on hold until a related internal National Weather Service Directive is approved and published. We anticipate that may be in December, 2016.
- Pacifex/Lantex exercise handbook development underway
- Consolidation of TWC EQI products with TIB products completed in August
- NTWC products to upper/lower case completed. Caused some problems with a late-issuance. Functioning properly now.

## 7. Update on NTHMP Annual Meeting

<http://nws.weather.gov/nthmp/2017annualmeeting/index.html>

Monday, January 30 to Friday, February 3 in Portland, Oregon

Rocky Lopes said that five (5) external reviewers as requested by the Coordinating Committee work group have been confirmed. Orientation for these reviewers has been scheduled for October 11.

If you have not already done so, please register for the meeting and reserve a hotel room via the NTHMP website:

<http://nws.weather.gov/nthmp/2017annualmeeting/index.html>

Tim Walsh asked: when is last date to reserve a hotel room?

Rocky Lopes: December 27. Then the room block is released.

## 8. Chayne Sparagowski, Gulf Coast Emergency Management representative, departure from NTHMP

Chayne Sparagowski's position at the Coastal Bend Council of Governments was grant-funded and the grant ended. For personal reasons, he is relocating to Atlanta and must leave the NTHMP since he will no longer be in the Gulf Coast region.

NTHMP Chair Grant Cooper thanked Chayne who has worked exceptionally well with Juan Horrillo, the Gulf Coast Science representative. Chayne has collaborated with Juan to disseminate tsunami threat maps for selected coastal areas along the Gulf Coast. With those maps, emergency managers are in a better position to enable informed decision support services (IDSS) and convince local elected officials that there is some tsunami risk and that communities and counties can prepare. Due to a large effort by Chayne, WFO Mobile (AL) has recognized Santa Rosa County, Florida, as the first TsunamiReady community in the entire Gulf Coast.

Juan Horrillo also thanked Chayne for his great partnership and agreed with everything that Dr. Cooper said.

Rocky Lopes stated that Chayne received recognition as a TsunamiReady Champion during the MES meeting in Lynnwood, Washington. Rocky has invited Chayne to join him during a presentation about development of the TsunamiREady Guidelines at a Spotlight session at the International Association of Emergency Managers annual conference in Savannah, Georgia, October 16-19, 2016.

The Coordinating Committee members thanked Chayne and wished him well.

#### 9. NTHMP Coordinating Committee and Subcommittee membership

Rocky provided a clarification of the NTHMP Rules of Procedure and Subcommittees' Terms of Reference.

Rocky explained that the NTHMP Partner appointed members (appointed by state/territory/NTHMP Chair Leadership) to the Coordinating Committee form the representatives for the respective NTHMP partners on the subcommittees.

The Emergency Management representative is the official member of the Mitigation and Education Subcommittee and the Warning Coordination Subcommittee.

The Science representative is the official member of the Mapping and Modeling Subcommittee.

The official representatives to serve on subcommittees may not be delegated to someone else. However, all subcommittees can have additional regular members as they wish. Other members may include scientists, modelers, educators, state tsunami specialists, social scientists, NWS Region or Forecast Office staff, or others. These additional members must work through and with their respective official members who also serve on the Coordinating Committee. Additional members may not participate in a way that represents themselves as speaking on behalf of their respective state, territory, or partner, and do not have a vote if a vote is requested.

#### 10. Does NTHMP wish to recognize a particular week for Tsunami Preparedness Week?

Christa Rabenold described that at the annual meeting in 2008, it was decided that NTHMP would designate the week of the 4<sup>th</sup> Monday in March as Tsunami Awareness Week. That changed to Tsunami Preparedness Week in 2012.

In 2015, the National Weather Service migrated to seasonal campaigns rather than designating separate recognition weeks for a number of hazards. Some states stayed on the same timeframe for recognition weeks and some changed. (Rocky note: Oregon and Washington changed Tsunami Preparedness week to October to coordinate with The Great Shakeout also held in October.)

Christa also pointed out that in the past, Tsunami Preparedness Weeks have occurred around the same times as the major tsunami exercises. In 2017, the exercises are scheduled as follows:

Caribe Wave (PR/USVI): March 21

Lantex: March 22

Pacifex: March 29

Miller: since various states and territories are observing different weeks, can we state that the NTHMP supports their respective weeks rather than designate one week. That would therefore be helpful to say this is an NTHMP supported event.

Eblé: does the group want to have a focused presence?

Rabenold: all that did was to have a website since the NTHMP doesn't communicate as a body. It is hard for the NTHMP to support one week when many partners do recognition weeks or months at different times.

Richards: Hawaii won't change from April as Tsunami Awareness Month. He would support designating one week for NTHMP if the Coordinating Committee wanted to so, but Hawaii won't change.

Dixon: He has invited Paul Whitmore during the first week of April for an exercise, so he is thinking about designating that week as Tsunami Preparedness Week in WA.

*Motion: Kevin Miller moved, "The NTHMP would support each state/territory tsunami preparedness campaign timeframe as the respective state designates."*

Kevin Richards seconded the motion.

Discussion on the motion between Miller and Lopes clarified the motion to refer to correct terminology that the NTHMP partners are using.

Vote: Chair Cooper called for a vote. There were none opposed. *The motion was approved unanimously.*

## 11. FY17 NTHMP Grants

Rocky Lopes updated the Coordinating Committee that since the Federal Government has a Continuing Resolution (CR) through December 9, 2016, for operating budget authority (and NOAA does not have an actual budget), we anticipate that NTHMP grants will be offered since a CR authorizes the same level of spending as the previous year. Though under a CR, the NWS does not have the funds and will not until appropriated by a CR (or a budget) effective at the time NTHMP grants are actually available for application in late Spring.

Meanwhile, we are proceeding as if NTHMP grants will be available so that we can provide adequate time for partners to prepare pre-application documents. Grant Guidance with a schedule of milestones will be provided in November. Lopes affirmed that he anticipates following the same schedule as has been used for NTHMP grants in the last two years.

12. Old Business

There was no old business.

13. New Business

There was no new business.

14. Adjourn

The Chair adjourned the meeting at 3:54pm EDST.

The next meeting of the Coordinating Committee is scheduled for November 15 at 3pm Eastern Standard Time (no longer Daylight Saving Time.)

Respectfully submitted,

Rocky Lopes  
NTHMP Administrator

## Appendix: Mitigation & Education Subcommittee Report

The NTHMP MES convened its Summer Meeting July 26-28, 2016 in Lynnwood, WA. MES state, territory, and federal representatives attended along with invited MMS representatives.

Meeting notes and presentations are on the NTHMP website here:

<http://nws.weather.gov/nthmp/2016messummer/index.html>

- Highlights included workshops on
  - Maritime Guidance document development
  - TsunamiReady, and
  - Evacuation approaches, vulnerability assessment, and studies; and
- Discussion about
  - State/Territory Preparedness Campaign Reports
  - Upcoming Strategic Planning, and
  - Using an online collaboration platform (Basecamp).
- The outcomes from this meeting resulted in the “Task List” housed on Basecamp further discussed below.

MES held a teleconference meeting on August 16 as part of a plan for having regular calls between face to face meetings, to facilitate ongoing sustainment of activities discussed at the MES Summer Meeting the next being the Annual Meeting next Feb.

- Gala Gulacsik reviewed the currently populated “To Dos” on the NTHMP MES Basecamp website. The group informed the revision and addition of the existing list.
- The updated list can be found in the [Basecamp To-do list section](#). Members asked for clarification on the following items:
- Note: Basecamp has been upgraded, thanks to FEMA Region IX, to be able to accommodate the extra features requested by members!
  - An email came to you from Gala on 8/29
  - Managing notifications
  - Compatibility with Google Calendar
  - Assigning multiple people with a task
  - Chat function
  - File versioning
- We then discussed and updated and assigned tasks and action items comprising the current MES Task List:

### **1. MES Contribution to NTHMP CC Strategic Plan**

#### Tasks Completed

- Strategic planning tools developed

#### Tasks remaining

- Develop list of “MES Accomplishments” for group to review
- Conduct MES Webinars through Fall 2016 – Brainstorm 2018 SP goals

## **2. MES/MMS Guideline Documents**

### Tasks Completed

- Breakout inundation modeling and mapping documents into 5 separate documents and format into suite of documents – Complete, posted to NTHMP Website
  - Part I: Tsunami Inundation Modeling (MMS)
  - Part II: Tsunami Inundation Maps (MMS)
  - Part III: Tsunami Inundation Determination for Non-Modeled Regions (MMS)
  - Part IV: Tsunami Evacuation Maps (MES)
  - Checklist for Evaluating Tsunami Modeling and Mapping Reports and/or Metadata (MMS)
- MMS/MES review of inundation modeling and mapping documents – MES and MMS Reviewed, further review of Part III in progress.

## **3. Post-Tsunami Protocol - Clearinghouse, tsunami observer program, etc.**

### Tasks Remaining:

- Share existing protocols from partners (ongoing)
  - Hawaii protocol meetings, ongoing, HI-EMA, ITIC, Univ of Hawaii, Counties,
    - Aug 25, CA protocol sharing,
    - HI draft plan - 2017 NTHMP Annual mtg (Feb)
  - US Federal Agency, National Plan for Disaster Impact Assessments, planned FY17: Oct 28 mtgs - Office of Federal Coordinating Meteorologist and USGS
- Discuss developing Guideline
- Socialize finalized protocols with MES

## **4. Media Outreach**

### Tasks Completed:

- Finalize calendar with tsunami events and anniversaries – Calendar received from Rabenold. Under review by MES (can discuss on next MES call).

### Tasks Remaining:

- Develop boiler plate social media messages for World Tsunami Awareness Day – in progress

## **5. TsunamiReady**

### Tasks Completed:

- MES review TsunamiReady Supporter language (all of MES).
- Post a basecamp discussion with the TsunamiReady Supporter language to solicit MES feedback

### Tasks Remaining

- MES Feedback on new TsunamiReady components
- Conduct webinar with MES to review TsunamiReady tier 2 guideline language
- All MES members: take TsunamiReady COMET training
- MES Review TsunamiReady Tier 2 Guidelines prior to webinar

## **6. Evacuation Modeling - Inform the socialization of evacuation modeling on the NTHMP website**

Tasks Completed:

- Create Template

Tasks Remaining:

- Form evacuation modeling subgroup - So far, Dmitry Nicolsky and Jonathan Allan have joined
- Compile URLs of published work
- Workshop session Post-NTHMP Annual mtg (consider 1-hr during NTHMP Annual)
- Develop short guidance – (Future guidance in 2018 Strategic Plan)

## **7. MES Input to Maritime Guidance (Part 2: Preparedness; Later: Part 3: Mitigation/Recovery)**

Tasks Completed:

- Appoint Tiger Team
  - Kevin Miller
  - Maximilian Dixon
  - Kevin Richards
  - James Waddell
  - Althea Rizzo
  - Arletta Peau
  - Tamra Biasco
  - Cindi Preller
  - Manuel Lugo
  - Dan Belanger

Tasks Remaining:

- Tiger team read and comment on document (part 2) – in progress
- Develop Text
- Schedule conference call to discuss document edits to content

The NEXT MES-MMS Telecon/Webinar will be on Oct 18<sup>th</sup>.

- Will discuss updates on action items
- Will discuss alternatives for MES input to the NTHMP Strategic Plan (2018-2022)
  - Repeat past process of review – walk thru existing
  - Address identified issues (e.g. w/the appendix – cross-walking to outcomes is difficult)
  - Explore then continuing “into new ground” w/new strategic planning tools and assistance w/facilitation.