

**Meeting Title** NTHMP Mapping and Modeling Subcommittee

**Purpose** MMS Project updates

**Location:** Teleconference

**Date** Tues, 12 November 2019

**Participants** Jon Allan, Marie Eble, Rocky Lopes, Diego Arcas, Kara Gately, Stephan Grilli, Chip Guard, Stephanie Ross, Kelly Stroker, Kelly Carignan, Rick Wilson, Dmitry Nicolsky.

**Introductions (Attendee list taken at start of meeting)**

**Agenda**

1. DEM update + new DEM needs (All)
2. Sediment transport workshop Update (All)
3. Winter meeting agenda topics (All)

**DEM development Update plus CY20 needs (All):**

J. Allan - reminded the group about DEM needs for CY2020.

D. Nicolsky – submitted a request on behalf of Alaska. Primary are of interest is the Anchorage region (strongly supported by the TWC as well) . Also interested in new DEMs for several other places, funding permitting.

J. Allan - suggested D. Nicolsky forward a map identifying a prioritized list of places of interest.

*[The following was submitted after the meeting:*

*AL – Prioritized list includes: (1) three telescoping DEMs for Anchorage and upper Cook Inlet (8 and 8/3 arc-seconds and the 15m resolution); (2) Whittier (update to incorporate new lidar); (3) Gustavus (update to incorporate new lidar); (4) Cordova to include the airport (new LIDAR and IFSAR data are available).*

*WA – Prioritized list includes: (1) Strait of Juan de Fuca (between Neah Bay and Port Townsend); (2) SW Washington (2019 DEM boundary to Columbia River including inland upriver locations such as the Chehalis and Willapa rivers, and other major watersheds in the region); (3) South Puget Sound (~ the latitude of the northernmost tip of Carr and Case inlet to the southernmost tip of Eld and Budd inlet).]*

**Action Item(s) - MMS members to get back to MMS co-chairs on DEM needs for CY2020.**

**Sediment Transport Workshop Planning (All):**

S. Grilli – S. Grilli and Jim met and discussed the overall approach. Plan is that this activity would consist of a phased approach. Phase 1 would focus on an initial workshop examining the state of the art for doing sediment transport modeling caused by tsunamis, field work, case studies, and in benchmarking. Phase 2 would come much later and would be focused on actual model benchmarking.

Next step: develop a draft work statement that would address this approach, which would be submitted as part of the FY20 round of partner grant proposals. Work statement to be produced by the end of the year and circulated to the Sediment transport working group. Work to be accomplished would include travel support (for outside experts from within US; international experts would have to fund own travel to US) for folks to meet (e.g. Galveston, TX), plus funds to cover the organizational aspects of hosting a workshop.

R. Lopes – suggested working with Ed Fratto for processing travel...cheaper due to lower indirect cost rates (10% compared with University IDC rates in excess of 50%. NOAA must recognize rates on negotiated indirect cost rate agreements and cannot do what the NAS does to limit which object classes are or are not subject to indirect rates).

R. Lopes – (added after meeting, as FYI) no funding from NOAA's NWS will be available to support anyone to attend the workshop, and Federal employees are prohibited from using grant funds. Please be aware of this in workshop planning, because unless an individual Fed can get travel support from his/her respective agency or funds travel out of his/her own pocket, that person cannot come. Travel funding from NOAA is more and more limited and getting worse.

S. Ross – reminded that in order to get USGS participation, they need advance warning. Especially important for organizing travel since Federal agencies are not supported by NTHMP travel.

S. Grilli – Timeline for hosting such a meeting would be ~ January 2021 at the earliest.

R. Wilson – Question about using sediment transport models for both land and water? Relevant for debris modeling in ports and harbors and elsewhere.

S. Grilli – Was not planning to look at transport modeling in the water.

*[General discussion on this topic followed. Suggestion was that this should be at least discussed at the workshop since the issue is critically important and several folks who are already doing this would be already at the workshop]*

**Action Item(s) - Ongoing. Jim/S. Grilli to circulate a work statement in the next few weeks on their proposed approach.**

**Winter Meeting Agenda Topics (All):**

J. Allan – Winter meeting is coming up (end of January 2020) and the MMS will have some face time. Currently, we are scheduled for the following: Jan 28<sup>th</sup> = 5.5 hours; Jan 29<sup>th</sup> = 5.5 hours; Jan 30<sup>th</sup> = ~6.5 hours. Need to start thinking about topics to be covered.

R. Lopes – noted a potential change to the schedule on Day 3, which would likely mean more MMS/MES time (already accounted for above) for committee meetings.

J. Allan – Proposed topics will follow the MMS work plans (i.e. respective leads will report back to the group). Suggested also the option of each NTHMP representative coming prepared for a lightning round series of presentations/updates (e.g. 2-3 key slides summarizing recent activities/hot topics), plus time for a quick (5 min) of Q&A.

*[General support for doing the lightning round]*

D. Arcas – suggested having a discussion/presentation on DEM resolution. For example, what is meant by a resolution of 1/3 arc sec... reality is that only a small area may be covered by spatially dense datasets leading to higher accuracy, while in other areas, the data may be spatially further apart and hence does not match the resolution specified. Many in NTHMP community (especially EMs) probably don't appreciate this.

K. Carignan and K. Stroker – noted that much of this is covered in the technical reports that accompany the DEMs. However, these reports are now not being consistently produced for every grid.

K. Stroker – suggested developing a short presentation on DEM resolution, which will be shared with the MMS/MES during their joint meeting.

R. Lopes – mentioned the need to allocate time for the new NTHMP Administrator to be introduced to the MMS – factor into schedule.

**Action Item(s)** - Ongoing. Kelly to work on a possible DEM resolution presentation, which could be presented in the joint MMS/MES session in Portland, OR on Jan 30<sup>th</sup>.

**Other discussions -**

This was R. Lopes's last meeting with the MMS. MMS appreciated everything R. Lopes has done for the NTHMP. We will miss you!