

NTHMP Grant Close-Out Narrative Report
November 29, 2015

Award Number: **NA13NWS4670014**

Project Dates: September 1, 2013 – August 31, 2015

Recipient: University of Delaware

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GOALS AND OBJECTIVES

We propose to address two new tasks in FY13:

1. Inundation studies for Virginia Beach/Norfolk VA, Savannah GA and Jacksonville, FL using existing source information
2. Inundation studies for Miami Beach, FL, Palm Beach, FL and neighboring communities, using new sources developed for the West Bahama Banks.

TASKS/SUBTASKS FUNDED

Task 1: Perform inundation studies for Virginia Beach, VA, Savannah, GA and Jacksonville, FL:

Task 1.1 Inundation study for Virginia Beach, VA:

Task 1.2 Inundation study for Savannah, GA:

Task 1.3 Inundation study for Jacksonville/St. Augustine, FL:

Task 2: Perform inundation studies for Miami Beach and Palm Beach, FL:

Task 2.1: Selection and model simulation of sources in Grand Bahama Bank

Task 2.2: Inundation study for Miami, FL

Task 2.3: Inundation study for Palm Beach, FL

ACCOMPLISHMENTS

MMS: Completion of mapping and choice of mapped areas has been affected by availability of DEM's and of source information in some instances. Completed tasks related to Task 1 above include:

1. Draft inundation maps for region covered by NGDC DEM for Virginia Beach, VA. (Task 1.1)
2. Draft inundation maps for region covered by NGDC DEM for Cape Hatteras, NC.
3. Draft inundation maps for region covered by NGDC DEM for Myrtle Beach, SC.
4. Draft inundation maps for region covered by NGDC DEM for Savannah, GA. (Task 1.2)

Items 2 and 3 represent replacements for Task 1.3 based on availability of NGDC DEM's for the studied areas.

For Task 2, work was slowed by an ongoing study of West Bahama Banks source configurations, and by the late delivery of two Florida east coast DEM's by NGDC. The source study has been completed, and the work has been submitted for publication. Inundation studies for Florida communities are still underway and will be completed in the near future.

Draft reports describing inundation studies and draft inundation maps are accessible at an unlinked site www.udel.edu/kirby/nthmp_protect.html. Documents will be submitted for the NTHMP website after review by local state officials.

UNMET RESULTS

None.

SUMMARY

The FY13 East Coast activity completes a first-generation study of tsunami inundation for communities along the US East Coast, with subsequent activities turning towards development of guidelines for estimating inundation in areas not covered by high resolution inundation studies. The first generation maps are likely to need future updating in response to refinement of source information, analysis of additional physical effects such as tide-tsunami interactions, and incorporation of probabilistic methodologies for hazard analysis.

Checklist of forms to prepare and submit with final progress report narrative:

- Federal Financial Report (SF425)

Reports on Federally-owned property (SF428A, SF428B, or SF428C) are not required on grant closeout. That's because equipment purchased using funds from NTHMP grants belongs to the NTHMP partner state, territory, or university making the purchase. The equipment is not "Federally-owned," and therefore, no forms about disposition of equipment or reimbursement of funds to the Government is required.

