

NTHMP Annual Report
July 31, 2011

Project Progress Report
Award Number: NA09NWS4670012
National Weather Service Program Office

Project Dates: 2/01/10 – 7/31/13
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BACKGROUND

American Samoa's 2010 – 2011 Tsunami program is aimed at:

- Conducting inundation and evacuation mapping;
- Enhancing response capabilities through workshops and exercises;
- Increasing local warning delivery capabilities with sirens and radios;
- Promoting Tsunami Awareness through media tool kits for K-12 education, and community outreach materials;
- Clearly marking tsunami evacuation routes and safe zones.

Since the last progress report of December 31, 2010, ASDHS has hired a full-time PI, who came onboard in May, 2011. This addition to the project has accelerated the progress of the various tasks.

Bringing American Samoa to “Tsunami Ready” status has been the priority target. The first objective has been the mapping of evacuation routes and assembly points. To take on this objective in the shortest timetable, it was decided that we would create the maps one county at a

time, beginning with Ma'oputasi county which represents the Pago Pago bay area. This first step has been accomplished, using a 50-foot elevation and two miles inland as a safe zone. Post September 29th topographical and run up data was also available, but only for Pago Pago and Leone villages. This data has been used to enhance the evacuation route mapping for these two villages by adding a second color shade aside from the 50-foot contour, indicating the historical inundation areas. Data for other areas may also be available, and ASDHS is working with the American Samoa Department of Commerce to try to identify if such reports are available to us so that it can be incorporated into the mapping.

Tsunami Evacuation Mapping Guidelines developed by the NTHMP Mitigation and Education (MES) Subcommittee are being followed to promote a consistent visual look and feel with the evacuation route maps in order to provide information upon which citizens may base their actions.

With the Ma'oputasi county mapping now complete, they will be produced in various scales and sizes and distributed to village mayors, schools, libraries, workplaces, church groups, hotels and major buildings within the county.

The mapping task has now moved on to Fofu and Alataua counties, which include the villages of Leone and all those up to the western end of Tutuila island. Together with the Pago Pago bay area, these were the villages that were most impacted by the September 29th, 2009 tsunami. As each county's mapping is completed, the task will move on to the next counties until the entire territory is completed.

Tsunami Sign Placement Guidelines have been developed in cooperation with the Highway Division of the American Samoa Department of Public Works, with sign specifications adopted from U.S. mainland standards, specifically the steering group of the Pacific States National Tsunami Hazard Mitigation Program (*See attached Tsunami Sign Placement Guidelines*). Road signs indicating Tsunami Hazard Zones, Evacuation Routes, Safe Zones and Assembly Points have been procured and will be ready for installment by the end of July, 2011 for Ma'oputasi county. As each county's mapping is completed, road signage will follow until the entire territory is covered.

Educational workshops for first responders, stakeholders and EOC personnel continue, as provided by the ITIC and NDPTC. Drills and exercises for schools have been coordinated with the Department of Education and are currently on hold during the summer holidays, but will continue when the new school year begins in August. The remainder of printed materials and other outreach materials have been on hold while the team has concentrated on mapping and signage.

The ASDHS siren warning system has progressed with 41 sirens now installed throughout the Tutuila and Manu'a islands. However, 5 sirens remain delayed due to land ownership issues. ASDHS is aggressively pursuing resolution to the land disputes between the families involved, with the objective to have the siren installations completed as quickly as possible.

NOAA radios have been ordered, with the first shipment of 1,000 radios scheduled to arrive on island in the last week of July, 2011, and the remaining 1,000 in September, 2011. Upon arrival, radios will be logged with serial numbers by ASDHS, and a distribution list has been prepared which includes village mayors, schools, government offices, hotels, workplaces, and others.

PROBLEMS ENCOUNTERED:

Information for this progress report for the FY11 Milestone Schedule for August 1, 2011 to July 31, 2012 is being prepared by the new PI, without much knowledge of actual project activities that were actually performed prior to his coming onboard. The previous contractor who managed the project from the beginning is presently off-island and unavailable to answer questions on the various tasks and milestones. Information on individual tasks and milestones prior to the new PI's employment were obtained from the previous project progress report dated December 31, 2010, and prepared by the previous contractor.

The three tasks that have been red marked in the summary schedule are the items of which the present PI is certain have not been completed within the fiscal year due to present efforts being concentrated on mapping and signage. The projected dates of completion have been indicated in the following fiscal year schedule.

**FY11 Milestone Schedule
(August 1, 2010 – July 31, 2011)**

Task	Key Milestone	Expected Month/Year of Completion	Requested Funding
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Component 1: Mapping and Modeling

Task 1.1 Preliminary mapping	Complete	8/10	\$15,000
Task 1.2 Inundation Maps	Pago Pago & Leone	7/11	\$40,000
Task 1.3 Produce and Distribute	Preliminary maps	10/10	\$25,000
Task 1.4 Post to website	Preliminary maps	9/10	\$10,000

Component 1: Mitigation and Education

Task 2.1 Workshops	Anniversary and workshop	9/10 & 3/11	\$8,000
Task 2.2 Table top exercises	Conducted	6/10	\$15,000

Component 1: Warning Coordination

Task 3.1 Siren system support	41 sirens working, 6 delayed	7/11	\$10,000
Task 3.2 NOAA Radios	Arriving 7/11 (1,000), 9/11 (1,000)	7/11 & 9/11	\$95,000
Task 3.3 Two-way radios	Purchased 8/10	8/10	\$3,500

Component 2: Tsunami Ready

Task 1.1 Public information	Printed materials translated	10/10	\$5,000
Task 1.2 Media toolkits	Toolkits completed	4/11	\$6,500
Task 1.3 Cartoon coloring book	Local book printed	10/10	\$20,000
Task 1.4.1 Update ASG plans	TEOP & SOPs updated	10/10	\$3,000
Task 1.4.2 Website posting	Preliminary maps on website	10/10	\$10,000
Task 1.5 Regional workshops	Travel to workshops (2 people)	???	\$5,500
Task 2.1 Evacuation signage	To complete all islands	2/12	\$20,000
Task 2.2 Footpath assistance	Completed 5 footpaths	4/11	\$25,000
Task 2.3 Footpath lighting	Install solar lighting on 5 paths	12/11	\$7,500
Total FY10-11:			\$319,500

Component 2:

Task 1.5 Regional workshops – for two people to travel to workshops

Now that a permanent PI is onboard, he will attend a regional workshop together with a staff member to broaden their familiarization with the NTHMP program. Scheduling for a workshop will be toward the end of 2011 as the current workload eases on mapping and signage.

Task 2.1 Evacuation signage

With evacuation route mapping presently being completed by county, signage follows until all counties are completed by 2/12.

Task 2.3 Footpath lighting

Solar lighting to be installed on 5 completed footpaths by 12/11. Presently working with village mayors on a viable maintenance plan to keep footpaths clear.

**FY12 Milestone Schedule
(August 1, 2011 – July 31, 2012)**

Task	Key Milestone	Expected Month/Year of Completion	Requested Funding
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Component 1: Mapping and Modeling

Task 1.1 Preliminary mapping	Task complete	8/10	
Task 1.2 Inundation Maps	Fagaalu, Vaitogi, Tafuna, Amanave, Poloa	7/12	\$100,000
Task 1.3 Produce and Distribute	Completed evacuation maps	4/12	\$25,000
Task 1.4 Post to website	Updates (LiDAR Enhanced?)	7/12	\$8,000

Component 1: Mitigation and Education

Task 2.1 Workshops	Workshops	9/11 & 3/12	\$4,000
Task 2.2 Table top exercises	Exercises	9/11	\$15,000

Component 1: Warning Coordination

Task 3.1 Siren system support	For installed sirens	7/12	\$10,000
Task 3.2 NOAA Radios	Purchase additional radios	7/12	\$3,800
Task 3.3 Two-way radios	Task complete	8/10	

Component 2: Tsunami Ready

Task 1.1 Public information	Materials updated with modeling	7/12	\$15,000
Task 1.2 Media toolkits	Updates	5/12	\$10,000
Task 1.3 School outreach	outreach	5/12	\$5,000
Task 1.4.1 Update ASG plans	Updates incl. modeling info	6/12	\$10,000
Task 1.4.2 Website posting	Updates	6/12	\$8,000
Task 1.5 Regional workshops	Travel to workshops (2 people)	???	\$16,000
Task 2.1 Evacuation signage	To complete all islands	2/12	\$10,000
Task 2.2 Footpath assistance	Complete 10 footpaths	7/12	\$50,000
Task 2.3 Footpath lighting	Install solar lights on 10 paths	6/12	\$16,000

Total FY-11: \$300,800

**FY12 Milestone Schedule
(August 1, 2012 – July 31, 2013)**

Task	Key Milestone	Expected Month/Year of Completion	Requested Funding
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Component 1: Mapping and Modeling

Task 1.1 Preliminary mapping	Complete	8/10	
Task 1.2 Inundation Maps	Map gaps	7/13	\$40,000
Task 1.3 Produce and Distribute	Updates	7/13	\$15,000
Task 1.4 Post to website	Updates	7/13	\$3,000

Component 1: Mitigation and Education

Task 2.1 Workshops	Two workshop	10/12 & 6/13	\$4,000
Task 2.2 Table top exercises	None this year		

Component 1: Warning Coordination

Task 3.1 Siren system support	Siren system complete	7/13	\$10,000
Task 3.2 NOAA Radios	Purchase radios	7/13	\$3,800
Task 3.3 Two-way radios	Task completed	8/10	

Component 2: Tsunami Ready

Task 1.1 Public information	Print & distribute updates	7/13	\$5,000
Task 1.2 Media toolkits	Updates	7/13	\$3,000
Task 1.3 Outreach	School visits	9/12	\$5,000
Task 1.4.1 Update ASG plans	Updates	7/13	\$3,000
Task 1.4.2 Website posting	Updates	7/13	\$1,000
Task 1.5 Regional workshops	Travel to workshops (2 people)	???	\$18,000
Task 2.1 Evacuation signage	Repairs & Replacements	7/13	\$10,000
Task 2.2 Footpath assistance	Repairs & replacements	7/13	\$15,000
Task 2.3 Footpath lighting	Repairs & replacements	7/13	\$9,000

Total FY-12: \$144,800