

**TSUNAMI ACTIVITIES MATRIX**  
**National Tsunami Mitigation Program Subcommittee**  
**April 14, 1998 Meeting**  
**Chris Jonientz-Trisler, Coordinator**

	<b>ALASKA</b>	<b>CALIFORNIA</b>	<b>HAWAII</b>	<b>OREGON</b>	<b>WASHINGTON</b>
<b>State Reps</b>	Mike Webb	Rich Eisner, EMD Lori Dengler	Brian Yanagi, EMD Gus Furumoto	Mark Darienzo, EMD	George Crawford, EMD Tim Walsh
<b>Public Info Materials</b>	<b>Public Info Materials</b>	<b>Public Info Materials</b>	<b>Public Info Materials</b>	<b>Public Info Materials</b>	<b>Public Info Materials</b>
<b>Web Pages</b>	In development	developed site to post state/local work group minutes, products, activities	several exist		under development
<b>Evacuation &amp; Educational Signage</b>	procedure in progress to enable installation	developed signs based on Oregon's, now trying to get support to convince Caltrans to post signage - currently unable	In existence on street (evacuation route, all hazards)	Evac and educational signs continue being posted.	Evacuation signs posted, more planned
<b>Media Materials</b>			inventory cancelled	Brochure, bookmarks	
<b>Public Info Products</b>	Brochure exists from 1980s	Brochure developed based on Oregon's. Interpretive programs planned for parks.	Phone book evacuation and safe area maps and instructions exist. State publishes.	Brochure developed in 1990s. Coffee mugs with tsunami logo and tips. Bookmarks, place cards.	Brochure based on California's developed and available where warning signs exist, distributed to hotels. Interpretive signage.
<b>Public Service Announcements</b>			Emergency broadcasts/sirens. Evacuation maps in phone books.		

<b>State Videos</b>			A few	One by OGI and G. Priest. One by Cannon Beach Schools.	
<b>Educational Programs</b>	<b>Educational Programs</b>	<b>Educational Programs</b>	<b>Educational Programs</b>	<b>Educational Programs</b>	<b>Educational Programs</b>
<b>Curriculum Materials</b>			Several	Curriculum activities for K-8 under development.	
<b>Library-type Materials Inventory</b>					
<b>Training Materials and Audiences</b>			Holds exercises.		Recent table top exercise included tsunami.
<b>Public Education</b>				Held dedication ceremonies for several more sign installation sites.	Sending out brochures. Developing ideas to provide materials to hotels/video stores.
<b>Counties &amp; Communities' Needs Assessment</b>	<b>Counties &amp; Communities' Needs Assessment</b>	<b>Counties &amp; Communities' Needs Assessment</b>	<b>Counties &amp; Communities' Needs Assessment</b>	<b>Counties &amp; Communities' Needs Assessment</b>	<b>Counties &amp; Communities' Needs Assessment</b>
Counties & Communities' Needs Assessment	Needs assessment info coming from updated survey and community meetings with local officials.	Conference and meetings used to determine recommendations, build constituencies. Recommendations document published following conference.	Drafted Position Paper with recommendations for such things as "Improve forecasting of wave heights on shore."	Finished overall assessment with counties. Will continue to work for priorities.	

<b>Surveys</b>	20-year-old survey exists. Currently surveying about 100 communities for baseline and developing update assessment.	Regional Federal survey done with North Coast responders regarding vulnerability and readiness, 1994.	Historical data: 5 tsunami events.	Regional Federal survey of responders regarding vulnerability and readiness, 1994. Repeating 1997 State Survey done for schools regarding tsunami curriculum and evacuation drills in 1994 and 1997. State inventory of critical facilities done for 47 communities to assess vulnerability.	Regional Federal survey done with responders regarding vulnerability and readiness, 1994.
<b>State/Local/Fed Group</b>	Blue Ribbon Oversight Committee formed to ground-truth data for inundation mapping and meet with local officials to provide type of mapping solutions needed locally. Met with locals in Sitka and Kodiak on issues.	Redwood Coast Tsunami Work Group is a partnership with locals to assess needs and priorities.	Ongoing relationships, new Hawaii Tsunami Group. County level meetings with State and Federal.	State/Local Tsunami Work Group forming to address needs and input from locals.	State/Local Tsunami Mitigation Work Group continues to meet and develop activities and products.

<b>Coastal Jurisdiction Contact</b>	Held meetings in Sitka, Kodiak.	Held conference.	Exist, ongoing.	Planning 2 coastal workshops.	Held several meetings and workshops.
<b>Evacuation Routes</b>	Communities have used outdated FEMA maps resulting in currently inappropriate plans. 1998 mapping will result in more accurate evacuation routes.		Many communities have inundation maps and evacuation routes.	Some communities have routes, 1997 mapping will improve.	Some communities have routes, 1997 mapping will improve.
<b>Model Codes and Regs</b>	<b>Model Codes and Regs</b>	<b>Model Codes and Regs</b>	<b>Model Codes and Regs</b>	<b>Model Codes and Regs</b>	<b>Model Codes and Regs</b>
<b>Codes and Construction Guides</b>			Building Codes exist for anyone within inundation zones.	SB 379 (siting of essential and critical facilities in inundation zone)	
<b>Zoning Regs and Land Use Guides</b>			In effect, needs improving.	New critical facilities not allowed in inundation zone.	Counties must use best maps available to plan for hazards.
<b>Tsunami Legislation</b>	<b>Tsunami Legislation</b>	<b>Tsunami Legislation</b>	<b>Tsunami Legislation</b>	<b>Tsunami Legislation</b>	<b>Tsunami Legislation</b>
<b>Tsunami Legislation</b>			In effect, needs improving.	Inundation zone schools required to have tsunami plan and evacuation drills.	
<b>Abatement Structures &amp; Methods</b>	<b>Abatement Structures &amp; Methods</b>	<b>Abatement Structures &amp; Methods</b>	<b>Abatement Structures &amp; Methods</b>	<b>Abatement Structures &amp; Methods</b>	<b>Abatement Structures &amp; Methods</b>
<b>Abatement</b>			Open space coastal parks, e. g., Hilo		

<b>Inundation Mapping</b>	<b>Inundation Mapping</b>	<b>Inundation Mapping</b>	<b>Inundation Mapping</b>	<b>Inundation Mapping</b>	<b>Inundation Mapping</b>
<b>Inundation Mapping</b>	Scheduled for 1998. Choosing criteria and pilot community (ies). Meetings in Sitka and Kodiak have led to decisions about mapping. Kodiak has chosen 3 sites.	Scheduled for 1998. Humboldt area mapped, 1992.	Completion of earlier evacuation mapping planned for 1999. Earlier mapping exists for evacuation.	Scheduled for 1997. Some earlier mapping exists for legislative purposes, i.e., siting of new critical facilities.	Scheduled for 1997. Met w/ modelers to refine process. Use determines model input. GMA may require inappropriate use.
<b>Warning Programs</b>	<b>Warning Programs</b>	<b>Warning Programs</b>	<b>Warning Programs</b>	<b>Warning Programs</b>	<b>Warning Programs</b>
<b>Warning Process, Responsibility</b>					
<b>Local level government to affected population warning</b>			Sirens, radio and TV announcements.		
<b>Human Resources During Event</b>	WC/ATWC staff, U of AK		PTWC Staff, tsunami advisor, Tsunami Society, Pacific Tsunami Museum, U of HI, PDC	Tsunami Inundation Mapping Effort (TIME)	
<b>Mitigation Programs</b>	<b>Mitigation Programs</b>	<b>Mitigation Programs</b>	<b>Mitigation Programs</b>	<b>Mitigation Programs</b>	<b>Mitigation Programs</b>
<b>Program Continuity</b>					
<b>Preparedness &amp; Awareness Programs</b>	<b>Preparedness &amp; Awareness Programs</b>	<b>Preparedness &amp; Awareness Programs</b>	<b>Preparedness &amp; Awareness Programs</b>	<b>Preparedness &amp; Awareness Programs</b>	<b>Preparedness &amp; Awareness Programs</b>

				<p>Developed school certification program to assist schools in developing tsunami plans and evac routes. Working with hotel/motel associations to put materials for guests into rooms.</p>	
<b>1997 Activities</b>	<b>1997 Activities</b>	<b>1997 Activities</b>	<b>1997 Activities</b>	<b>1997 Activities</b>	<b>1997 Activities</b>
<b>1997 Activities</b>	<p>Meetings held to form advisory group for mapping and mitigation efforts. Began update of 20-year-old community survey/risk assessment. Assembling data sets/resources for mapping. Building web page. Exploring sign installation.</p>	<p>Held conference for Redwood Coast Tsunami Work Group. Developed brochure, web site, signs. Published mitigation recommendations document.</p>	<p>Regular meeting county level, state level, state-federal liaison. Drafted Position Paper on Tsunami Issues with priority recommendations.</p>	<p>TIME opened. Developed brochure, bookmark, mugs, hotel/motel materials for public. Forming State/Local partnership. Updated school survey to measure progress. Developed school certification program to assist schools with plans/evac routes. Working with motel/hotel associations. Working on tsunami curriculum. Inventoried needs with counties.</p>	<p>Meetings of State/Local/Fed Work Group held to identify local priorities and move forward on signage and brochures. Building web page. Developed brochure, ideas to provide materials to hotels and video stores. Installed signs. Held table top exercise.</p>

1998 Planned Activities	1998 Planned Activities	1998 Planned Activities	1998 Planned Activities	1998 Planned Activities	1998 Planned Activities
<p><b>1998 Planned Activities</b></p>	<p>Finalize in-depth survey of 100 communities, develop needs assessment for each and baseline for future work.</p>	<p>Develop guidance for local governments for use of inundation maps and development of evac maps/ procedures.</p>	<p>Raise awareness through production of video, reprint of depleted pubs, and support of existing outreach programs of various groups. Support meetings of Hawaii Tsunami Group which provides guidance.</p>	<p>Continue development of State/Local Tsunami Group to include diverse interests. Develop 2 workshops to gather local input and better assess needs/ priorities. Work with schools for appropriate evac/ destination routes. Continue development/ printing of multi-use materials. Print inundation maps for Astoria, Warrenton, Seaside in color.</p>	<p>Support State/ Local Tsunami Group. Continue installation of interpretive and evac signs. Support installation of indoor signs in hotels, schools, tourist sites. Coordinate workshops for local officials, businesses, utilities regarding mapping, signage, mitigation. Continue development of educational materials for businesses, schools, residents. Continue development of local county web page including State/ Local Work Group meeting minutes, updates to evacuation routes/ procedures.</p>