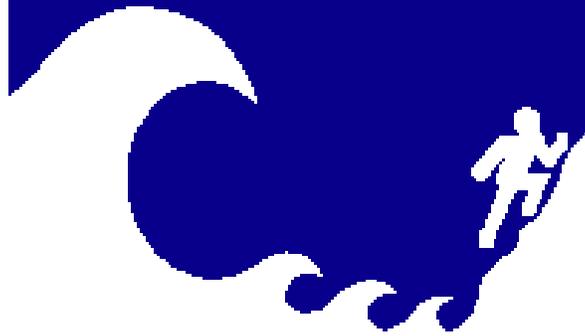


TSUNAMI HAZARD ZONE



IN CASE OF EARTHQUAKE, GO TO  
HIGH GROUND OR INLAND

# **GRAYS HARBOR COUNTY**

# **TSUNAMI WARNING PLAN**

**June 2006**



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## I. PURPOSE

This plan provides for the warning and safe evacuation from coastal danger areas and the Chehalis River estuary in order to protect life and property which are likely to be affected by a distant tsunami.

## II. DEFINITIONS

### A. Assembly Area

An Assembly Area is a designated outside location which is on higher ground or inland from coastal waters. These areas have been identified so there is a defined assembly point after evacuation whether accessed on foot or by vehicle. Emergency officials will be able to focus emergency response to those designated areas. Assembly Areas have been designated based on inundation areas identified by the Washington State Department of Natural Resources on evacuation maps dated March 2005.

### B. Local/Distant Tsunami

There is a distinction between a tsunami caused by an undersea earthquake near the Washington coast (LOCAL TSUNAMI) and an undersea earthquake far away from the coast (DISTANT TSUNAMI).

A LOCAL TSUNAMI could come onshore within 15 to 20 minutes after an earthquake, before there is time for official warning from a national warning system. Ground-shaking from the earthquake may be the only warning. The public has been educated to self-evacuate quickly under these circumstances.

A distant tsunami may take four hours or more to come onshore. The earthquake may not be felt, and the tsunami generally is smaller than that from a local earthquake. There will typically be time for an official warning and organized evacuation to safe areas.

### C. Shelter

An Emergency Shelter is used to provide an evacuation location for citizens in case of emergency or disaster. Although emergency shelters provide inside protection, they are not equipped like hotels. They do not normally have cots, blankets, etc. Citizens must bring their own emergency supplies. Emergency Shelters will only provide basic medical services. Animals are not allowed in Emergency Shelters. Pet owners should use the designated assembly areas or make prior arrangements for the shelter of pets and other animals.

D. Staging Area

A Staging Area is an interim location where first responders, supplies, and equipment can be positioned, ready for use in on-site operations. The primary function of a Staging Area is to provide a holding area near – but not at – the incident site, so resources can be marshaled without placing them at risk or adding to the operational complexities at the incident site. Additional functions accomplished at a Staging Area include checking in team members; providing information, equipment, and supplies; and providing workspace for interim operations, if necessary.

E. Tsunami Information Message

Information messages are issued when smaller earthquakes (less than the warning threshold) may be felt near coastal areas. These messages are issued to assure coastal residents and emergency managers that there is no tsunami danger.

F. Tsunami Advisory

A message issued when the Pacific Tsunami Warning Center has issued a warning or an event outside the WC/ATWC (Alaska Tsunami Warning Center) Area of Responsibility (AOR) which poses no imminent threat to the AOR. This is a bulletin issued to areas not currently in either warning or watch status when a tsunami warning has been issued for another region of an ocean. An Advisory indicates that an area is either outside the current warning and watch regions, or that the tsunami poses no danger to that area. The WC/ATWC will continue to monitor the event, issuing updates at least every 30 minutes. As conditions warrant, the Advisory will either be continued, upgraded to a watch or warning, or ended.

G. Tsunami Watch

A Tsunami Watch is an alert issued to areas outside the warned area. A bulletin, usually based only on seismic information without tsunami confirmation, is issued as a means of alerting the population with one to three hours tsunami travel time beyond the tsunami warning area of an earthquake with the potential to have generated a tsunami that may affect the watch area. Subsequent bulletins are issued at least every 30 minutes or as conditions warrant, to expand the watch area, upgrade it to a warning, or cancel the watch and warning.

H. Tsunami Warning

A tsunami warning message indicates that a tsunami is imminent and that coastal locations in the inundation area should prepare for flooding. A bulletin, initially based only on seismic information without tsunami confirmation, is issued as a means of providing the earliest possible alert to at-risk populations. Subsequent

bulletins are issued at least every 30 minutes or as conditions warrant to continue, to expand, to restrict, or end the warning. In the event a tsunami has been confirmed which could cause damage outside the source region, the warning will be extended as appropriate.

### III. ASSUMPTIONS

Tsunamis may occur at anytime day or night. Access to and from the damaged areas may be severely restricted. Communications and life support systems may be severely disrupted or destroyed and the maximum possible tourist and workforce populations may be present in the affected areas.

Local resources will most likely be inadequate to respond to the effects of a catastrophic tsunami, yet local jurisdictions will need to be self-sufficient for at least the first three days following the event. Damage will be widespread and vary widely. There may be high concentrations of damage in some areas with only slight damage in others. Mutual aid response between areas will be necessary. Some low lying areas may be completely inundated.

### IV. OPERATIONAL CONCEPTS

Prior to a tsunami, Grays Harbor County Emergency Management will coordinate efforts to minimize the effects through planning and risk analysis.

- A. Tsunami watch and warning information will be received by the Grays Harbor Communications E9-1-1 Center (E911) over the National Warning System (NAWAS) followed by a hard copy over ACCESS (A Central Computerized Enforcement Service System). This warning originates at the Alaska Tsunami Warning Center in Palmer, Alaska and is relayed to the Washington State Emergency Management Division, by NAWAS.
- B. Evacuation action may not be taken during a Tsunami **Watch**. Key officials will be notified (Appendix #1) and additional personnel may be placed on standby.
- C. When a Tsunami Warning is issued, people in affected areas may be warned by one or more of the following systems:
  - 1. NOAA weather radio
  - 2. All Hazards Alert Broadcasting (AHAB) Systems
  - 3. Emergency Alert System (EAS)
  - 4. Telephonic Warning System (TWS)
  - 5. Sirens, and/or loud speakers

Instructions will be provided to turn to local radio stations for information. Designated police and fire personnel in risk areas of the county may report to their headquarters for assignment.

- D. Authority to order the evacuation of the unincorporated areas of Grays Harbor County rests with the Board of County Commissioners. Mayors have the authority to order the evacuation of their respective cities.
- E. Upon receipt of a tsunami warning, the Washington State Military Department Emergency Management Division has the authority per Interlocal Agreement to activate the County's EAS including the AHABs with the following message:

“This is not a test. A tsunami warning has been issued for the coastal areas of Washington. A tsunami can cause dangerous flooding. If you are in a low coastal area, you are at risk and must move to higher ground or inland now. Do not return until directed to do so. Closely monitor local radio stations for additional information. This is not a test. A tsunami warning has been issued for the coastal areas of Washington. Immediate evacuation of coastal areas is recommended. Move to higher ground or inland now.”
- F. In the event a Tsunami Warning is issued or an earthquake is felt, the Grays Harbor County Emergency Operations Center (EOC) will be activated. An Area Command under the guidelines of the National Incident Management System (NIMS) will be established by jurisdictions affected by the incident. Area command will facilitate coordination among jurisdictions and disciplines through the EOC.
- G. The evacuation order issued under a Tsunami Warning will be considered mandatory in order to protect life, safety and the general welfare of the public. It is understood that some of the population may not follow instructions to evacuate a risk area, but choose to remain in their homes or places of business.
- H. All county or city owned vehicles (not otherwise involved in the emergency response) will be available for use in the evacuation.
- I. Transportation infrastructure may sustain significant damage in a disaster. The damage, dependent upon the transportation network, will influence the means and accessibility level for evacuation.
- J. When transportation sources (e.g., buses or vans) are obtained, every attempt will be made to obtain drivers who are familiar with those vehicles (e.g., owner or assigned driver).

- K. County government, through its departments, will direct, control and coordinate the movement of people on the county road system and will support state and city government with crowd and traffic control on city streets, federal highways, and state roads, as resource availability permits.
- L. The priorities of disaster management include the following:
  - 1. Protect life.
  - 2. Protect property.
  - 3. Develop and disseminate public information.
  - 4. Restore order and organization to the community.
  - 5. Develop capacity (to respond, manage, communicate, etc.).
  - 6. Minimize economic hardship and dislocation.
  - 7. Preserve existing functions and organizational structures.
  - 8. Document and record decisions, expenditures, lessons learned, etc.
  - 9. Emplace feedback mechanisms for the community as a whole.
- M. Areas of special concern may be:
  - 1. Coordination with education and child care facilities.
  - 2. Evacuation of disabled persons and those needing special assistance.
  - 3. Animal care issues, including care, shelter, and possible public health concerns.
- N. During actual emergency operations, heightened safety and security procedures will be in force and will be followed by responding personnel. Security and safety procedures will be implemented for all incident command posts (ICP) and other operations sites.

## V. RESPONSIBILITIES

### A. Federal

#### 1. United States Department of Commerce

The National Oceanic and Atmospheric Administration (NOAA), National Weather Service (NWS), and Coast and Geodetic Survey Alaska Tsunami Warning Center (ATW) have responsibility for collecting data and issuing information and tsunami watch/warnings for Alaska, California, Oregon, Washington, and British Columbia, Canada. Tsunami watch/warnings are sent via NAWAS (National Warning System) dedicated telephone lines to state warning points and forwarded to county warning points.

#### 2. Federal Emergency Management Agency (FEMA) coordinates federal agency aid.

### B. State

#### 1. Military Department, Emergency Management Division (EMD)

- a. Receives NAWAS messages and disseminates to county warning points.
- b. Activates the All Hazard Alert Broadcast (AHAB) systems with predefined warning message.
- c. Provides updates on the watch/warning every 30 minutes.
- d. Provides scientific data to counties as available.
- e. Coordinates requests for state and local assistance.

#### 2. Department of Transportation (WSDOT)

- a. Provides personnel and barricades for state highway traffic control points as resources are available.
- b. Moves equipment and personnel to high ground.

#### 3. Washington State Patrol (WSP)

- a. Provides personnel to assist in evacuation and at state highway traffic control points as resources are available.
- b. Moves personnel to high ground.

## C. Local

## 1. Board of County Commissioners (BOCC)

## Mitigation and Preparedness

- a. Adopts plans and procedures for saving lives and property.
- b. Participates in training exercises.
- c. Delegates program development and administration to those departments able to carry out the required program.
- d. Maintains compliance with NIMS requirements.

## Response

- a. Initiates Emergency Alert System (EAS) if not already initiated.  
Complete information on the EAS can be found in the EAS Plan.
  - i. Authorized personnel contact E911 and provide authorization code.
  - ii. EAS message is developed from incoming NAWAS message plus additional evacuation instructions from authorized personnel as appropriate.
  - iii. E911 activates the EAS message as directed by authorized personnel.
- b. Responds to the Emergency Operations Center.
- c. Maintains overall responsibility for disaster management and the conduct of emergency operations.
- d. Declares emergency and requests Disaster Declaration by the Governor.
- e. Makes major policy decisions.
- f. Provides overall guidance and direction.
- g. Maintains contact with other jurisdictions.
- h. Authorizes emergency funding.

## Recovery

- a. Determines recovery/reconstruction priorities.
- b. Directs the recovery effort.
- c. Establishes public/private advisory boards as needed.
- d. Authorizes appropriate agreements with outside contractors to assist in reconstruction.
- e. Directs the reestablishment of government services.
- f. Coordinates with school districts to call school back into session.

## 2. Mayor, City Manager, and/or Designee

## Mitigation and Preparedness

- a. Adopts plans and procedures for saving lives and property.
- b. Participates in training exercises.

- c. Delegates program development and administration to those departments able to carry out the required program.
- d. Maintains compliance with NIMS requirements.

#### Response

- a. Initiates Emergency Alert System (EAS) if not already initiated.  
Complete information on the EAS can be found in the EAS Plan.
  - i. Authorized personnel contact E911 and provide authorization code.
  - ii. EAS message is developed from incoming NAWAS message plus additional evacuation instructions from authorized personnel as appropriate.
  - iii. E911 activates the EAS message as directed by authorized personnel.
- b. Responds to the City's Emergency Operations Center.
- c. Maintains overall responsibility for disaster management and the conduct of emergency operations.
- d. Makes major policy decisions.
- e. Provides overall guidance and direction.
- f. Maintains contact with other jurisdictions.
- g. Authorizes emergency funding.

#### Recovery

- a. Determines recovery/reconstruction priorities.
- b. Directs the recovery effort.
- c. Establishes public/private advisory boards as needed.
- d. Authorizes appropriate agreements with outside contractors to assist in reconstruction.
- e. Directs the reestablishment of government services.
- f. Coordinates with school districts to call school back into session.

### 3. Division of Emergency Management

#### Mitigation and Preparedness

- a. Coordinates plan review and updates as needed.
- b. Maintains maps in EOC showing primary and alternate evacuation routes.
- c. Maintains resource list for EOC.
- d. Coordinates with other agencies regarding plans and emergency preparedness.
- e. Maintains compliance with NIMS requirements.

#### Response

- a. Initiates Emergency Alert System (EAS) if not already initiated.  
Complete information on the EAS can be found in the EAS Plan.
  - i. Authorized personnel contact E911 and provide authorization code.
  - ii. EAS message is developed from incoming NAWAS message plus additional evacuation instructions from authorized personnel as appropriate.

- iii. E911 activates the EAS message as directed by authorized personnel.
- b. Completes notification calls according to the Tsunami Warning Calling Tree (Appendix #1).
- c. Activates the EOC.
- d. Notifies E911 and state duty officer of EOC status.
- e. Activates the Telephonic Warning System.
- f. Relays updated information received from warning center, state, NOAA, etc. to jurisdictions and E911 via land line, cell, satellite, internet, radio, or auxiliary communications.
- g. Coordinates with adjacent jurisdictions, and state and federal agencies.
- h. Provides BOCC with status updates.
- i. Assembles EOC resources (i.e., data, maps, charts, etc.).
- j. Requests American Red Cross to open reception centers and shelters when necessary.
- k. Prepares Declaration of Emergency for BOCC signature.

#### Recovery

- a. Responds to requests from other agencies for assistance and support.
- b. Supervises and coordinates public announcements before Public Information Officer (PIO) is activated and when deactivated.
- c. Organizes and supervises damage assessment efforts.
- d. Collects information on damage and number of injuries/fatalities. Keeps BOCC informed.
- e. Arranges for assistance and support to local agencies and the public from federal and state agencies.

#### 4. Sheriff's Office

##### Mitigation and Preparedness

- a. Reviews and updates SOPs.
- b. Trains supervisors, deputies, and officers.
- c. Reviews direction and control capabilities.
- d. Maintains compliance with NIMS requirements.

##### Response

- a. Initiates Emergency Alert System (EAS) if not already initiated.  
Complete information on the EAS can be found in the EAS Plan.
  - i. Authorized personnel contact E911 and provide authorization code.
  - ii. EAS message is developed from incoming NAWAS message plus additional evacuation instructions from authorized personnel as appropriate.
  - iii. E911 activates the EAS message as directed by authorized personnel.
- b. Completes notification calls according to Tsunami Warning Calling Tree (Appendix #1).
- c. Reports immediately to EOC and assumes Incident Command.
- d. Activates Public Information Officer.

- e. Makes decision on activating additional personnel, depending on the event.
- f. Takes action to protect life and property.
- g. Maintains contact with local jurisdictions and establishes Area Command.
- h. Directs mass and spontaneous evacuations.
- i. Controls traffic in and out of evacuated areas.
- j. Coordinates with Public Works for placement of barricades.
- k. Through Unified Command, makes re-entry decisions after “all clear.”
- l. Requests mutual aid.
- m. Moves equipment and personnel out of the projected inundation area.

#### Recovery

- a. Establishes security.
- b. Responds to requests for assistance.
- c. Coordinates re-entry after the “all clear.”
- d. Provides traffic control.
- e. Provides personnel for damage assessment.
- f. Coordinates with Safety Officer regarding personal protective equipment.

#### 5. Public Information Officer (PIO)

- a. Maintains awareness of current plans and protocols.
- b. Reports immediately to EOC.
- c. Provides information updates to the local media based on information provided by Unified/Area Command.
- d. Writes and distributes press releases.
- e. Addresses notifications for non-English speaking residents.
- f. Provides direction for release of information by support staff answering telephone inquiries.
- g. Keeps population advised of evacuation routes, conditions, changes and plans through the use of radio, TV and newspapers.
- h. Maintains compliance with NIMS requirements.

#### 6. Law Enforcement

##### Mitigation and Preparedness

- a. Reviews and updates SOPs.
- b. Trains supervisors, deputies, and officers.
- c. Reviews direction and control capabilities.
- d. Maintains compliance with NIMS requirements.

##### Response

- a. Initiates Emergency Alert System (EAS) if not already initiated.  
Complete information on the EAS can be found in the EAS Plan.
  - i. Authorized personnel contact E911 and provide authorization code.

- ii. EAS message is developed from incoming NAWAS message plus additional evacuation instructions from authorized personnel as appropriate.
- iii. E911 activates the EAS message as directed by authorized personnel.
- b. Completes notification calls according to the Tsunami Warning Calling Tree (Appendix #1).
- c. Takes action to protect life and property.
- d. Warns public with mobile sirens and loud speakers.
- e. Evacuates beach areas.
- f. Establishes Unified Command through EOC.
- g. Controls traffic in and out of evacuated areas.
- h. Coordinates with Public Works for placement of barricades.
- i. Assists with light rescue, first aid, and on-site communications.
- j. Moves equipment and personnel out of the projected inundation area.

#### Recovery

- a. Establishes security after an area has been evacuated by setting up roadblocks, barricades, and/or a system of patrols.
- b. Establishes alternate Command Center if necessary.
- c. Responds to requests for assistance.
- d. Through Unified Command, coordinates re-entry after the “all clear.”
- e. Provides traffic control.
- f. Assists with damage assessment and fatalities management.
- g. Coordinates with Safety Officer regarding personal protective equipment.

### 7. Fire Services

#### Mitigation and Preparedness

- a. Reviews and updates SOPs.
- b. Trains fire personnel.
- c. Establishes mutual aid.
- d. Maintains compliance with NIMS requirements.

#### Response

- a. Completes notification calls according to Tsunami Warning Calling Tree (Appendix #1).
- b. Calls out all available volunteer and regular firefighters.
- c. Takes action to protect life and property.
- d. Assists law enforcement with warnings and evacuations.
- e. Fights fires.

- f. Provides emergency medical services.
- g. Performs rescue activities.
- h. Requests mutual aid.
- i. Addresses hazardous materials issues (ESF#10)
- j. Assists with perimeter and access control.
- k. Moves all equipment and personnel out of the projected inundation area.
- l. Participates in Unified/Area Command.

#### Recovery

- a. Provides decontamination as necessary.
- b. Assists with fatalities management.
- c. Coordinates with Safety Officer regarding personal protective equipment.

#### 8. Grays Harbor Communications E9-1-1 Center (E911)

- a. Completes notification calls according to Tsunami Warning Calling Tree (Appendix #1).
- b. Monitors NAWAS warning phone.
- c. Dispatches emergency response vehicles as needed.
- d. Keeps EOC updated as new information is received.
- e. Maintains compliance with NIMS requirements.

#### 9. Public Works

##### Mitigation and Preparedness

- a. Reviews and updates SOPs.
- b. Trains supervisors.
- c. Reviews emergency communications capability.
- d. Identifies alternate evacuation routes.
- e. Maintains inventory and installs evacuation and assembly area signs.
- d. Maintains compliance with NIMS requirements.

##### Response

- a. Supports law enforcement with barricades and personnel for traffic control points.
- b. Coordinates with EOC for traffic control.
- c. Responds with necessary equipment for protection of life and property.
- d. Moves equipment and personnel out of projected inundation areas.
- e. Requests mutual aid.
- f. Provides labor and equipment to keep evacuation routes clear of stalled vehicles and equipment.
- g. Provides for the maintenance or repair of evacuation routes.

##### Recovery

- a. Performs heavy rescue and debris clearance from roads.
- b. Assists with temporary repairs.

- c. Coordinates with Safety Officer regarding personal protective equipment.
- d. Assists with damage assessment and reports to DEM.
- e. Coordinates inspections of damaged bridges and roadways for general use.

## 10. Grays Harbor Transit

### Mitigation and Preparedness

- a. Reviews and updates SOPs.
- b. Trains supervisors.

### Response

- a. Provides transportation necessary for the evacuation of the Juvenile Detention Center to the County Jail.
- b. Provides transportation necessary for the movement of evacuees out of the inundation area.
- c. Moves equipment and personnel out of projected inundation areas.

### Recovery

- a. Assists with damage assessment and reports to DEM.
- b. Works with Incident Command and Logistics Chief on the movement of personnel as necessary.
- c. Coordinates with Safety Officer regarding personal protective equipment.

## 11. Public Utilities

### Mitigation and Preparedness

- a. Reviews and updates SOPs.
- b. Trains supervisors.

### Response

- a. Responds with necessary equipment for protection of life and property.
- b. Requests mutual aid.
- c. Prioritizes the management of public utilities.
- d. Moves equipment and personnel out of projected inundation areas.

### Recovery

- a. Assists with damage assessment and reports to DEM.
- b. Works with Incident Command on restoration of services.
- c. Coordinates with Safety Officer regarding personal protective equipment.

## 12. Grays Harbor County Health Department/Environmental Health Division

- a. Coordinates medical resources.
- b. Activates the department's emergency response plan addressing family assistance, mental health, stress management, etc.
- c. Coordinates preventive medical care, and water and sanitation tests.

- d. Requests mutual aid.
  - e. Coordinates with Safety Officer regarding personal protective equipment.
- D. Non-Governmental Agencies
- 1. American Red Cross
    - a. Opens/manages shelters for evacuees.
    - b. Registers disaster victims at shelters.
    - c. Updates EOC with list of shelters activated or standing by to receive evacuees.
    - d. Provides food and clothing for disaster victims.
    - e. Arranges for support of emergency agencies.
  - 2. Radio Amateur Civil Emergency Service (RACES)
    - a. Provides emergency communications, locally and interstate, from assigned areas to EOC and from American Red Cross Command Center to EOC (as resources are able).
    - b. Maintains compliance with NIMS requirements.
  - 3. Volunteer Emergency Workers
    - a. Assists in EOC by providing support functions.
    - b. Provides search and rescue (SAR) operations according to training.
    - c. Community Emergency Response Teams (CERT) may assist as training allows.
    - d. VIPs (Volunteers in Police Work) may assist with traffic control as directed through Unified Command.
    - e. Maintains compliance with NIMS requirements.
- E. Timber Companies
- 1. Provides a master key for locked gates in tsunami evacuation areas to the affected Fire District/Department Chief and Law Enforcement Agency.
  - 2. Includes Fire District/Department Chief and Law Enforcement Agency in all subsequent distributions of master gate keys.
  - 3. Color codes gates for easy company recognition as follows:
    - a. Green Diamond – orange
    - b. Rayonier – blue
    - c. Weyerhaeuser – yellow

## VI. AGENCY OPERATIONS

### A. Tsunami Warning

When an earthquake of sufficient magnitude to generate a tsunami occurs (7.0 or larger on the Richter Scale) in the Pacific Ocean area, the Alaska Tsunami Warning Center personnel determine the location of the earthquake epicenter. If the epicenter is near or under the ocean which could generate a tsunami, or other monitoring devices indicate the probability that a tsunami exists, then a Tsunami Warning is issued. The Warning is issued to inform emergency response personnel of the probability of a tsunami. Estimates on time of arrival to our coast will be provided.

E911 notifies the following per the Tsunami Warning Calling Tree (Appendix #1). Direct contact with an agency representative will be made. If the person receiving the notification cannot make the additional calls per the Tsunami Warning Calling Tree, the responsibility will be assumed by another individual within the agency and the calls will be made per the plan.

1. Washington State Patrol Bremerton Dispatch
2. Grays Harbor County Sheriff's Officer in Charge
3. Grays Harbor County Division of Emergency Management Duty Officer
4. Westport Police Department Officer in Charge
5. Ocean Shores Police Department Officer in Charge
6. Hoquiam Police Department Officer in Charge
7. Aberdeen Police Department Officer in Charge

In the event of a Tsunami Warning, the EOC will be activated at Level III and NIMS/ICS will be implemented. Agencies will respond immediately according to this plan.

### B. Tsunami Watch

Earthquakes of a lesser magnitude (less than 7.0 on the Richter Scale) in the Pacific Ocean area and distant events may be monitored by the Alaska Tsunami Warning Center personnel. The Center may issue a Tsunami Watch if the epicenter is near or under the ocean and the possibility of generating a tsunami exists. The Watch is issued to inform emergency response personnel of the possibility of a tsunami.

E911 notifies the following per the Tsunami Warning Calling Tree (Appendix #1). Direct contact with an agency representative will be made. If the person receiving the notification cannot make the additional calls per the Tsunami Warning Calling Tree, the responsibility will be assumed by another individual within the agency and the calls will be made per the plan.

1. Grays Harbor County Sheriff's Officer in Charge
2. Grays Harbor County Emergency Management Division Duty Officer
3. Westport Police Department Officer in Charge
4. Westport Fire Department
5. Grays Harbor Fire Protection District #11
6. Ocean Shores Police Department Officer in Charge
7. Ocean Shores Fire Department
8. Taholah Police Department
9. Grays Harbor Fire Protection District #8
10. Grays Harbor Fire Protection District #7
11. Hoquiam Police Department Officer in Charge
12. Aberdeen Fire Department

In the event of a Tsunami Watch, the EOC will be activated at Level I and may quickly escalate to Level II depending on the situation. Individual agencies should follow their SOPs.

## VII. RE-ENTRY

Evacuated areas will remain closed to the public until after the threat of a tsunami no longer exists. The decision to allow re-entry will be made based on the advice and information supplied by State EMD and the NWS. The decision will be made by Unified Command, the BOCC, and Mayors. Notification will be made to law enforcement and fire services as well as to local media.

In the event that damage occurs from a tsunami, a thorough inspection will be needed in the damaged areas to address safety and health hazards before the general public will be allowed to enter. Public Health, Environmental Health, and Building Inspectors from all jurisdictions will participate in this inspection process. A windshield damage assessment will be completed prior to re-entry by the public.

All traffic control points will be maintained until the order from Unified Command to remove traffic control points is issued. Residents will re-enter through control points to allow for distribution of information about safety and sanitary precautions.

Based on the damage incurred, the following actions and issues may be considered:

- A. Curfew
- B. Quarantine (both human and animal)

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**APPENDIX #1**  
**TSUNAMI WARNING CALLING TREE**

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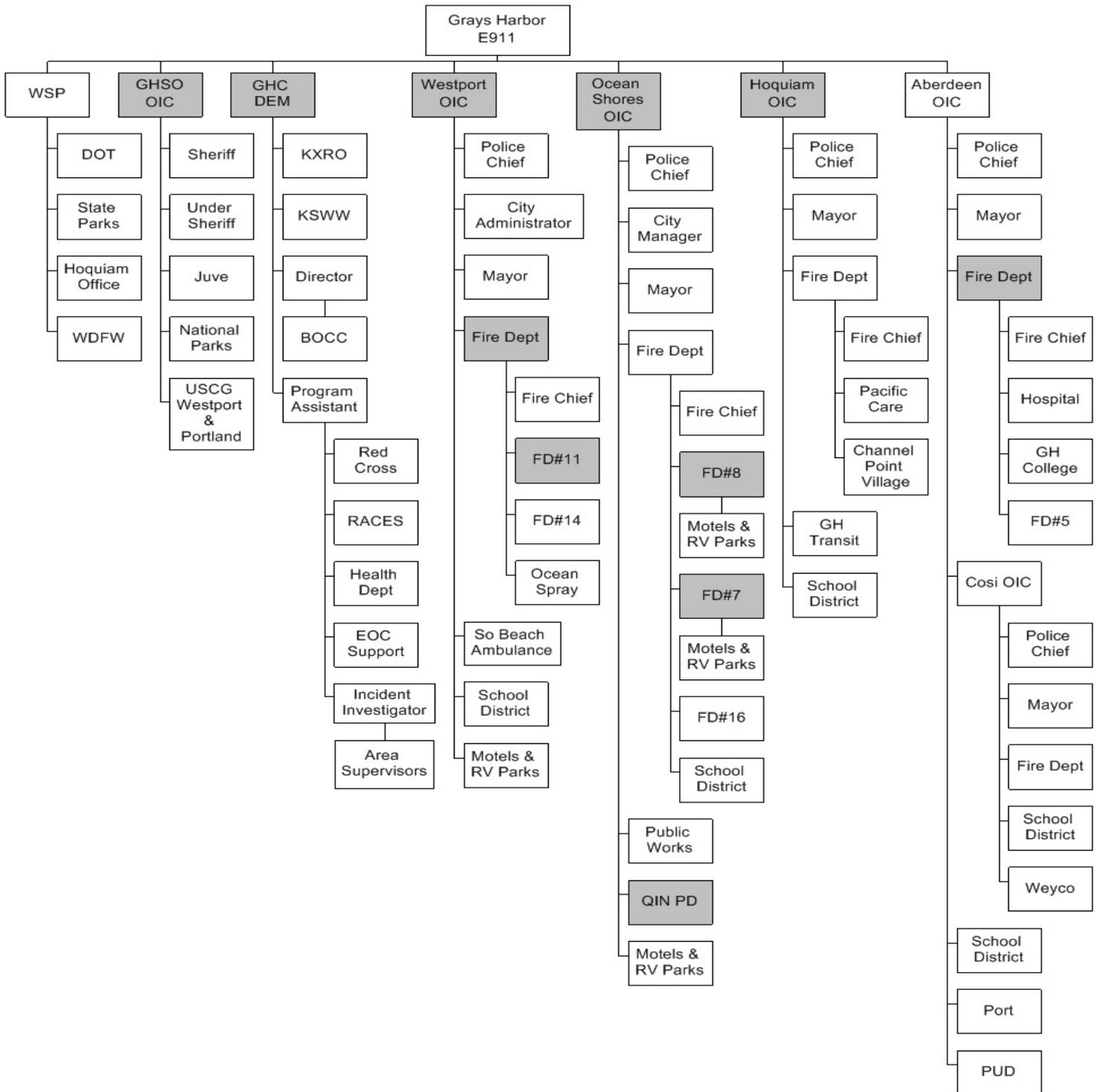
The Tsunami Warning Calling Tree is used as a notification process and information dissemination or gathering mechanism. When a Tsunami Warning is issued, E911 will notify the agencies on level one of the tree. Contact may be made by radio, telephone, or any other means that is operational and deemed appropriate. The Level 1 agencies will contact other agencies or individuals under their span of control and so on, down the calling tree until all parties are contacted. Please note that names on the calling tree are not arranged in priority. No one person or agency is any more important than another. All must be notified as quickly as possible.

An important part of the calling tree, above notification, is information dissemination and gathering. To prevent system overload, agencies and individuals listed on the calling tree must contact their notification agency if they need additional information or have information of importance to provide.

During a Tsunami Warning, agencies or individuals under the Level 1 agencies should not contact agencies located in other subdivisions. For example, Ocean Shores Fire Department would not contact Grays Harbor County Emergency Management or E911 for additional information. Their contact for information is the Ocean Shores Police Department. Use of the calling tree in this manner will reduce the workload on any one agency, minimize communication problems, prevent equipment overload, and improve the communication process.

If for any reason a contact on the calling tree cannot be reached, the party attempting to make contact will advise their notification agency of the problem and discuss alternative solutions. Should there be questions about the calling tree or its utilization, contact the notification agency.

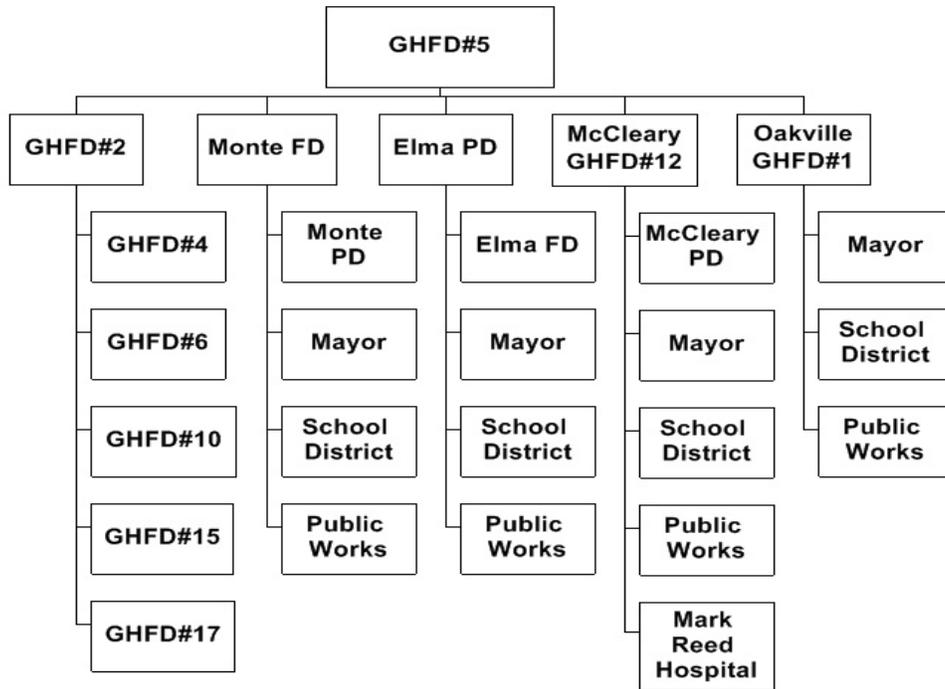
**TSUNAMI WARNING CALLING TREE**



**Highlighted agencies will be contacted in the event of a Tsunami Watch**

5/31/06

SECONDARY CALLING TREE



5/31/06

---

**APPENDIX #2**  
**TSUNAMI WARNING CHECKLISTS**

---

**BOARD OF COUNTY COMMISSIONERS**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
  
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
  
- 3. Consult with other Commissioners. Obtain available fax number of members unable to respond.  
\_\_\_\_\_  
\_\_\_\_\_
  
- 4. Proceed to Commissioners Office. Time of Arrival? \_\_\_\_\_
  
- 5. Consult with EOC and other jurisdictions regarding status of event and evacuation.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
- 6. If evacuation is determined necessary, contact EOC to prepare Declaration of Emergency. Sign Declaration and send back to EOC.
  
- 7. Authorize expenditures and commitments of county resources.
  
- 8. Maintain contact with other jurisdictions.  
\_\_\_\_\_
  
- 9. Consult with Incident/Unified Command regarding re-entry decisions after "all clear" has been given.

**MAYOR/CITY ADMINISTRATOR**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 3. Consult with other city officials.  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Proceed to city's emergency operations center. Time of Arrival? \_\_\_\_\_
- 5. Consult with Police Chief, city officials and other jurisdictions regarding status of event and evacuation.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 6. Send representative to the GHC EOC.
- 7. If evacuation is determined necessary, prepare and sign Declaration of Emergency. Send signed Declaration to GHC EOC.
- 8. Authorize expenditures and commitments of city resources.
- 9. Maintain contact with other jurisdictions.  
\_\_\_\_\_
- 10. Consult with Incident/Unified Command regarding re-entry decisions after "all clear" has been given.
- 11. Direct recovery efforts and forward damage assessments to GHC EOC.

**E911**

- 1. Receive notification of tsunami warning. From? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 3. By telephone or radio, relay information to the following according to the Tsunami Warning Calling Tree (Appendix #1).
  - Washington State Patrol
  - Sheriff's Office
  - Emergency Management
  - Westport PD
  - Ocean Shores PD
  - Hoquiam PD
  - Aberdeen PD
- 4. Monitor new NAWAS, NOAA, Warning Center status updates and forward to EOC.
- 5. Manage incoming calls as efficiently as possible.

**SHERIFF OR DESIGNEE**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 3. Contact E911 to activate the Emergency Alert System. Time? \_\_\_\_\_
- 4. Proceed to EOC and assume Incident Command. Time of Arrival? \_\_\_\_\_
- 5. Activate General and Command staff as appropriate.
- 6. Consult with commissioners and other jurisdictions regarding status of event and evacuation.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 7. Offer use of mobile command post.
- 8. Staff EOC until close-out of emergency.
- 9. Update jurisdictions at 30 minute intervals or immediately upon receipt of time sensitive information.
- 10. Provide security for EOC if necessary.
- 11. Request inspections be made as appropriate by Public Works, Public Health, Environmental Health, Building, and Facility Services to ensure areas are safe for residents before re-entry.
- 12. Provide input to re-entry decisions after “all clear” has been given.
- 13. Assist with recovery efforts and forward damage assessments to GHC EOC.

**EMERGENCY MANAGEMENT DIRECTOR, MANAGER OR DESIGNEE**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_
- 3. Confirm that the Emergency Alert System has been activated. Time? \_\_\_\_\_
- 4. Activate EOC and initiate Calling Tree per Appendix #1. Time of Arrival? \_\_\_\_\_
- 5. Obtain new NAWAS, NOAA, Warning Center status updates and forward to jurisdictions.  
\_\_\_\_\_
- 6. Call Duty Officer to advise that GHC EOC has been activated.
- 7. Monitor tide gauges via Weather Alert System.
- 8. Maintain contact with commissioners, director and other jurisdictions regarding status of event and evacuation.  
\_\_\_\_\_
- 9. If evacuation is deemed necessary, prepare Declaration of Emergency for the Board's signature (See CEMP Appendix #1). Fax signed copy to the Duty Officer. Time Prepared \_\_\_\_\_
- 10. Provide briefings to EOC staff at 30 minute intervals or immediately upon receipt of time sensitive information.
- 11. Maintain contact with other jurisdictions.
- 12. Secure resources as requested.
- 13. On termination of incident, initiate notification of all agencies previously alerted.
- 14. Determine status of damage, injuries, and fatalities. Keep commissioners and director informed.
- 15. Coordinate with state on damage assistance.

**PUBLIC INFORMATION OFFICER**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Report to EOC. Time of Arrival? \_\_\_\_\_
- 5. Consult with Incident Command to develop Tsunami Information Statement to deliver to public through local radio and television.
- 6. If evacuation is determined necessary, prepare to deliver Evacuation Order to public through EAS, local radio and/or television.
- 7. Keep public informed as to open shelters through media after confirmation with American Red Cross.
- 8. Maintain contact with PIOs from other affected counties. Participate in Joint Information Center (JIC) if warranted.
- 9. Prepare for major PIO effort to disseminate information to public about event.

**LAW ENFORCEMENT**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Initiate Calling Tree per Appendix #1 if responsible for that function.
- 5. Proceed to duty station or other location as directed. Time of Arrival? \_\_\_\_\_
- 6. Establish traffic control points as directed.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 7. Assist with evacuation notification using sirens and public address system (see Appendix #3).
- 8. Secure evacuated areas. Cordon off evacuated areas. Request signage of evacuated areas.
- 9. Move equipment to high ground.
- 10. Assist with recovery efforts and forward damage assessments to GHC EOC.
- 11. Secure damaged areas from re-entry until "all clear" is received.

**FIRE SERVICES**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Initiate Calling Tree per Appendix #1 if responsible for that function.
- 5. Proceed to city's emergency operations center. Time of Arrival? \_\_\_\_\_
- 6. Consult with Police Chief, city officials and other jurisdictions regarding status of event and evacuation.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 7. Call out all available volunteer and regular firefighters to assist with warning to the public. Time? \_\_\_\_\_
- 8. Assist with evacuation notification using sirens and public address system (see Appendix #3).
- 9. Provide regular fire service duties and respond to emergencies and accidents as able.
- 10. Analyze affected areas for potential Hazmat incidents.
- 11. Assist with any Hazmat mitigation efforts before tsunami arrival.
- 12. Respond to Hazmat incidents if required.
- 13. Move equipment to high ground.
- 14. Assist with recovery efforts and forward damage assessments to GHC EOC.

**PUBLIC WORKS**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Proceed to duty station or other location as directed. Time of Arrival? \_\_\_\_\_
- 5. Coordinate with Sheriff's Office on placement of barricades on county roads including:
  - Junction of Copalis Beach and Ocean Beach Roads (County 101 and 103)
  - Copalis Beach Road ½ mile east of SR109
  - SR107 and Blue Slough
  - SR101 and Blue Slough
  - County 101 at Dekay Road
- 6. Assist with evacuation as directed.
- 7. Move equipment to high ground.
- 8. Assist with recovery efforts and forward damage assessments to GHC EOC.
- 9. Develop list of all roads and facilities damaged with detail and status on each.

**COMMUNICATIONS SUPERVISOR**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Proceed to EOC or other location as directed. Time of Arrival? \_\_\_\_\_
- 5. Report to Operations Chief for work assignment.
- 6. Provide technical services in maintaining effective communications.
- 7. Report through the EOC until close-out of emergency.
- 8. Assist with recovery efforts and forward damage assessments to GHC EOC.
- 9. Develop list of damage at each affected site including equipment and facility damage.

**WASHINGTON STATE DEPARTMENT OF TRANSPORTATION**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Proceed to duty station or other location as directed. Time of Arrival? \_\_\_\_\_
- 5. Coordinate with WSP on placement of barricades on state roads including:
  - Junction of SR107 and Blue Slough
  - Junction of SR101 and Blue Slough
  - SR105 west of John’s River Bridge
  - Junction of SR101 and Moclips Highway
  - Junction of SR109 and SR115
  - SR12 westbound at Montesano off-ramp
- 6. Maintain communications with the County EOC on the status of roads as possible.
- 7. Assist with evacuation as directed.
- 8. Move equipment to high ground.
- 9. Assist with recovery efforts.

**WASHINGTON STATE PATROL**

- 1. Receive notification of tsunami warning. From whom? \_\_\_\_\_  
Time? \_\_\_\_\_
- 2. Information received  
\_\_\_\_\_  
\_\_\_\_\_
- 4. Proceed to EOC or other location as directed. Time of Arrival? \_\_\_\_\_
- 5. Coordinate traffic control points at the following prioritized locations:
  - SR109 and SR115
  - SR105 and Montesano Street
  - SR105 and S Forest Street
  - SR109 and Copalis Beach Road
- 6. Assist with evacuation of citizens.
- 7. Evacuate with adequate time to move to a position of safety on higher ground.
- 8. Assist with recovery efforts and forward damage assessments to GHC EOC.

---

**APPENDIX #3**  
**EMERGENCY MESSAGES**

---

**SAMPLE ATWC TSUNAMI WARNING**

---

WEPA43 PAAQ 140710  
TIBWCA

TO - TSUNAMI WARNING SYSTEM PARTICIPANTS IN  
ALASKA/BRITISH COLUMBIA/WASHINGTON/OREGON/CALIFORNIA  
FROM - WEST COAST AND ALASKA TSUNAMI WARNING CENTER/NOAA/NWS  
SUBJECT - TSUNAMI INFORMATION  
BULLETIN NUMBER 1  
ISSUED 03/14/2006 AT 0710 UTC

.THIS TSUNAMI INFORMATION BULLETIN IS FOR ALASKA - BRITISH  
COLUMBIA - WASHINGTON - OREGON AND CALIFORNIA ONLY...

NO - REPEAT NO - WATCH OR WARNING IS IN EFFECT FOR THE STATES  
AND PROVINCES LISTED ABOVE.

**EVALUATION**

BASED ON MAGNITUDE AND HISTORIC TSUNAMI INFORMATION THE EARTHQUAKE  
WAS NOT SUFFICIENT TO GENERATE A TSUNAMI DAMAGING TO CALIFORNIA -  
OREGON - WASHINGTON - BRITISH COLUMBIA OR ALASKA. SOME OF THESE  
AREAS MAY EXPERIENCE SMALL SEA LEVEL CHANGES. IN COASTAL AREAS OF  
INTENSE SHAKING LOCALLY GENERATED TSUNAMIS CAN BE TRIGGERED BY  
UNDERWATER LANDSLIDES.

**EARTHQUAKE DATA**

PRELIMINARY MAGNITUDE - 6.8  
LOCATION - 3.6S 127.3E  
- SERAM INDONESIA  
TIME - 2158 AST 03/13/2006  
2258 PST 03/13/2006  
0658 UTC 03/14/2006

THE PACIFIC TSUNAMI WARNING CENTER WILL ISSUE TSUNAMI BULLETINS  
FOR HAWAII AND OTHER AREAS OF THE PACIFIC.

THIS WILL BE THE ONLY BULLETIN ISSUED FOR THIS EVENT BY THE  
WEST COAST AND ALASKA TSUNAMI WARNING CENTER UNLESS ADDITIONAL  
INFORMATION BECOMES AVAILABLE. REFER TO THE INTERNET SITE  
WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION.

\$\$

.A TSUNAMI WATCH IS IN EFFECT FOR THE CALIFORNIA - OREGON  
- WASHINGTON - BRITISH COLUMBIA AND ALASKA COASTAL AREAS  
FROM POINT SUR CALIFORNIA TO KODIAK ALASKA...

ESTIMATED TIMES OF INITIAL WAVE ARRIVAL

SEWARD-AK	1934 AST JAN 20	JUNEAU-AK	2109 AST JAN 20
YAKUTAT-AK	1947 AST JAN 20	TOFINO-BC	2221 PST JAN 20
SITKA-AK	1948 AST JAN 20	NEAH BAY-WA	2232 PST JAN 20
LANGARA-BC	2055 PST JAN 20	CHARLESTON-OR	2236 PST JAN 20
VALDEZ-AK	1957 AST JAN 20	CRESCENT CITY-CA	2243 PST JAN 20
CORDOVA-AK	2006 AST JAN 20	SEASIDE-OR	2244 PST JAN 20
HOMER-AK	2030 AST JAN 20	ASTORIA-OR	2307 PST JAN 20
KETCHIKAN-AK	2107 AST JAN 20	SAN FRANCISCO-CA	2327 PST JAN 20

\$\$

PZZ670-673-650-655-750-CAZ034-035-039-040-087-041-042-043-  
211906-

COASTAL AREAS FROM THE CALIFORNIA-MEXICO BORDER TO POINT  
SUR CALIFORNIA

TSUNAMI INFORMATION STATEMENT..

NO - REPEAT NO - TSUNAMI WATCH OR WARNING IS IN EFFECT FOR  
THE COASTAL AREAS FROM THE CALIFORNIA-MEXICO BORDER TO  
POINT SUR CALIFORNIA

FOR INFORMATION ONLY - ESTIMATED TIMES OF INITIAL WAVE ARRIVAL

SAN PEDRO-CA	2350 PST JAN 20	LA JOLLA-CA	0001 PST JAN 21
--------------	-----------------	-------------	-----------------

\$\$

THE PACIFIC TSUNAMI WARNING CENTER AT EWA BEACH HAWAII WILL  
ISSUE TSUNAMI BULLETINS FOR HAWAII AND OTHER AREAS OF THE PACIFIC  
OUTSIDE THE STATES AND PROVINCES LISTED ABOVE.

BULLETINS WILL BE ISSUED HALF-HOURLY OR SOONER IF CONDITIONS  
WARRANT. THE TSUNAMI WARNING AND WATCH WILL REMAIN IN EFFECT  
UNTIL FURTHER NOTICE. REFER TO THE INTERNET SITE  
WCATWC.ARH.NOAA.GOV FOR MORE INFORMATION AND EXPECTED ARRIVAL  
TIMES.

THIS IS A TEST MESSAGE. DO NOT TAKE ACTION BASED ON THIS TEST  
MESSAGE.

\$\$

**EVACUATION NOTIFICATION (DISTANT TSUNAMI)**

1. Law enforcement and fire service resources will be used in evacuation notifications. Personnel will drive slowly on all streets and roads in the assigned area using high/low sirens.
2. Personnel should stop frequently, turn off the siren and use the public address system. Announce in a clear, calm voice:

***Immediate evacuation is recommended due to the threat of high water from a tsunami expected to reach the area. For further information tune your radio to KXRO 1320 AM or KDUX 104.7 FM. Use the designated evacuation routes to travel to high ground.***

3. Do not use force to ensure evacuation.
4. Continue to travel the assigned area until all residents have been notified of evacuation or directed to report to staging area.

**PRESS RELEASE/LIVE RADIO FEED**

## SAMPLE

A Tsunami Warning has been issued for the coastal area of Grays Harbor County and the low lying areas of Grays Harbor.

An earthquake in \_\_\_\_\_

with a preliminary magnitude of \_\_\_\_\_

has occurred at \_\_\_\_\_ (time) on \_\_\_\_\_ (date).

A tsunami  has  may have been generated which could cause damage to the Pacific Coast. Tsunami wave heights may be dangerous for several hours after the initial arrival.

Estimated time of arrival is \_\_\_\_\_

Grays Harbor County officials are issuing the following emergency information:

1. Quickly move to higher ground, away from the coast.
2. Use the designated evacuation routes.
3. Take your emergency disaster kit.
4. Keep radio tuned to local radio for further instructions.
5. A tsunami is not a single wave, but a series of waves.
6. Approaching tsunamis are sometimes preceded by a noticeable rise or fall of coastal water. This is nature's warning and should be heeded.
7. DO NOT go to the beach to watch the waves. You may not be able to get to safety in time.
8. DO NOT call 911 for any reason except for medical emergencies.
9. Stay away from low lying coastal areas until further notice.

**APPENDIX #4**  
**POSSIBLE ASSEMBLY AREAS**

<b>Assembly Area Number</b>	<b>Assembly Area</b>	<b>Elevation</b>	<b>GPS Location Longitude (DMS) Latitude (DMS) Longitude (DD) Latitude (DD)</b>
<b><u>OCEAN CITY, COPALIS BEACH, PACIFIC BEACH AND MOCLIPS</u></b>			
<b>1</b>	Pacific Beach Naval Facility, Pacific Beach	<b>104</b>	<b>-124 12 14 47 12 53 -124.20381 47.21460</b>
<b>2</b>	North Beach School District, Ocean City	<b>24</b>	<b>-124 09 48 47 04 24 -124.16333 47.07322</b>
<b>3</b>	Camp Bethel, Kirkpatrick Road	<b>52</b>	<b>-124 02 28 47 07 58 -124.04124 47.13271</b>
<b>4</b>	Old North Beach High School	<b>55</b>	<b>-124 12 34 47 14 04 -124.20956 47.23453</b>
<b>5</b>	Pacific Beach Fire Station	<b>108</b>	<b>-124 12 08 47 13 09 -124.20216 47.21915</b>
<b><u>OCEAN SHORES</u></b>			
<b>3</b>	Camp Bethel, Kirkpatrick Road	<b>52</b>	<b>-124 02 28 47 07 58 -124.04124 47.13271</b>
<b><u>WESTPORT, GRAYLAND AND OCOSTA</u></b>			
<b>11</b>	Ocosta High School, Westport	<b>20</b>	<b>-124 05 58 46 51 52 -124.09953 46.86457</b>
<b>12</b>	Ocosta Community Center, Ocosta	<b>54</b>	<b>-124 02 11 46 53 19 -124.03635 46.88875</b>

<b>13</b>	Turkey Road, Grayland (high ground at end of road)	<b>173</b>	<b>-124 04 44 46 48 50 -124.07879 46.81402</b>
<b><u>ABERDEEN</u></b>			
<b>21</b>	Armory	<b>20</b>	<b>-123 49 09 46 58 40 -123.81905 46.97782</b>
<b>22</b>	Basich Blvd	<b>267</b>	<b>-123 50 22 46 59 17 -123.83938 46.98806</b>
<b>23</b>	Fern Hill Cemetery	<b>59</b>	<b>-123 48 04 46 59 38 -123.80115 46.99388</b>
<b>24</b>	Hood Park	<b>90</b>	<b>-123 49 36 46 58 50 -123.82671 46.98062</b>
<b>25</b>	McDermoth Elementary, 409 N K St.	<b>20</b>	<b>-123 49 20 46 58 38 -123.82235 46.97710</b>
<b>26</b>	Sam Benn Gym	<b>27</b>	<b>-123 49 02 46 58 50 -123.81710 46.98062</b>
<b>27</b>	Sam Benn Park	<b>108</b>	<b>-123 49 13 46 58 58 -123.82030 46.98283</b>
<b>28</b>	Grays Harbor College	<b>106</b>	<b>-123 48 05 46 57 12 -123.80150 46.95325</b>
<b>29</b>	Evans St.	<b>80</b>	<b>-123 47 33 46 57 19 -123.79245 46.95522</b>
<b>30</b>	Pioneer Blvd.	<b>183</b>	<b>-123 47 54 46 59 08 -123.79820 46.98555</b>

<b>31</b>	Scammel Hill	<b>80</b>	<b>123 50 06</b> <b>46 58 45</b> <b>123.83499</b> <b>46.97916</b>
<b><u>HOQUIAM</u></b>			
<b>41</b>	Hoquiam High School, 505 W Emerson	<b>40</b>	<b>-123 54 33</b> <b>46 59 02</b> <b>-123.90917</b> <b>46.98386</b>
<b>42</b>	Lincoln Elementary, 700 Wood Ave.	<b>16</b>	<b>-123 53 11</b> <b>46 59 29</b> <b>-123.88637</b> <b>46.99145</b>
<b>43</b>	Viglasky Park	<b>7</b>	<b>-123 52 54</b> <b>46 59 51</b> <b>-123.88154</b> <b>46.99741</b>

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**APPENDIX #5**  
**STAGING AREAS**

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North Beach Area

- ◆ North Beach High School
- ◆ North Beach School District, Ocean City
- ◆ County Shop, Copalis Crossing
- ◆ GHFPD#16, SE Station

South Beach Area

- ◆ GHFPD#14 Station, John's River Road
- ◆ Water Tank, Westport City Park

Hoquiam

- ◆ Upper High School Parking Lot
- ◆ Beacon Hill Reservoir

Aberdeen

- ◆ Broadway Hill (Public Works)
- ◆ Sam Benn Park area (Public Works)
- ◆ Grays Harbor Community East Campus (Station 1)
- ◆ Grays Harbor College Hill (Station 2)
- ◆ Forsythe and Rainier (Station 3)

Grays Harbor County

- ◆ Makarenko Park, Cosmopolis

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**APPENDIX #6**  
**TRAFFIC CONTROL POINTS**

---

- ◆ Junction of SR107 and Blue Slough
- ◆ Junction of SR101 and Blue Slough
- ◆ SR109 Junction with SR115
- ◆ SR 109 at Copalis Beach Road
- ◆ SR109 West of Hoquiam at airport road
- ◆ SR105 at South Montesano St (Westport “Y”)
- ◆ SR12 westbound at Montesano off ramp
- ◆ County 101 at Dekay Road
- ◆ Junction of Copalis Beach and Ocean Beach Roads (County 101 and 103)
- ◆ Copalis Beach Road ½ mile east of SR109

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**APPENDIX #7**  
**BRIDGES ON EVACUATION ROUTES**

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<b>Road Number</b>	<b>Mile Post</b>	<b>Location</b>
1098	0.1	Cranberry Road, Grayland
2522	0.1	Second Ave, Ocean City
9423	Between 6.6 and 19.0 (9 Bridges)	Ocean Beach Road
3141	0.3	Main St, Pacific Beach
4392	0.1	Dekay Road
9331	10.7	Kirkpatrick Road
9310	0.1	Second St, Moclips

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**APPENDIX #8  
SHELTERS**

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As of November 30, 2005, the American Red Cross has identified the following facilities to be shelters in the event of disaster:

FACILITY	ADDRESS	CAPACITY
Aberdeen Eagles	200 W Market, Aberdeen	125
A.J. West School	1801 Bay Ave, Aberdeen	200
Alder Grove Church of God	1800 Coolidge, Aberdeen	75
Alexander Young School	1700 Cherry St, Aberdeen	125
Baptist Church South Aberdeen	620 Fordney, Aberdeen	85
Central Park School	601 School Rd, Aberdeen	250
Church of God, Montesano	317 E Spruce St, Montesano	150
Evangelical Covenant Church	101 South H St, Aberdeen	125
First Presbyterian Church	216 K St, Hoquiam	150
First United Methodist Church	100 East 2 <sup>nd</sup> , Aberdeen	160
Grays Harbor College	1620 Edward P Smith Dr, Aberdeen	400
Humptulips Community Center		60
Lake Quinault High School	6130 US 101, Amanda Park	250
LDS Church GH Stakebook	2735 Riverview Dr, Aberdeen	300
McDermoth School	409 North K St, Aberdeen	150
Miller Junior High	100 E Lindstrom St, Aberdeen	300
Our Saviour's Lutheran Church	111 East 4 <sup>th</sup> St, Aberdeen	120
Pacific Beach Community Church	19 4 <sup>th</sup> South, Pacific Beach	150
Polish Club Lodge Building	823 West 1 <sup>st</sup> St, Aberdeen	245
Robert Gray School	1516 North B St, Aberdeen	300
Sam Benn Gym		250
Seventh Day Adventist Church	3101 Cherry St, Hoquiam	85
St. Andrew's Episcopal Church	1 <sup>st</sup> and G St, Aberdeen	100
St. Mary's Catholic Church	518 North H St, Aberdeen	200
Stevens School	301 S Farragut St, Aberdeen	150
Weatherwax High School	414 North I St, Aberdeen	200
Wishkah Valley School	4640 Wishkah Rd, Aberdeen	150
<b>TOTAL</b>		<b>4855</b>

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**APPENDIX #9**  
**MAPS**

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1. Tsunami Inundation Areas – North Beach
2. Tsunami Inundation Areas – South Beach
3. Tsunami Inundation Areas – Urban Corridor
4. Assembly Areas
5. 2000 Census Population
6. Explosives Licenses
7. Fire Stations
8. Hazardous Materials
9. Hospitals & Clinics
10. Police Stations
11. Prisons
12. Radioactive Materials Licenses
13. Schools
14. Staging Areas
15. Substations
16. Telecommunications
17. Traffic Control Points
18. Transportation
19. Water Reservoirs & Tanks
20. General Features