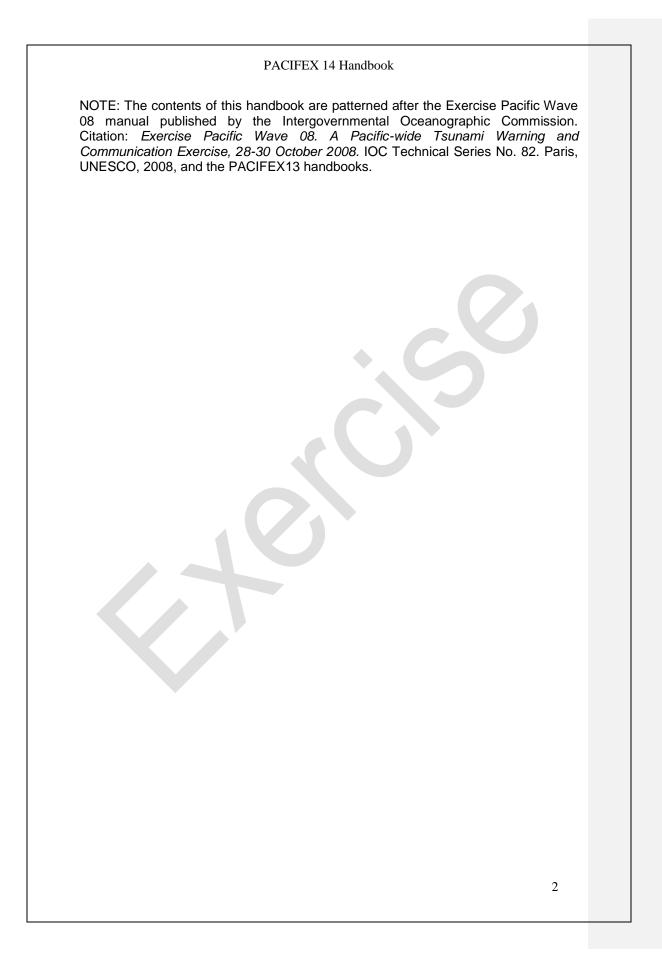
# Exercise PACIFEX 14 Participant Handbook

A Pacific Tsunami Warning Exercise March 27, 2014

US National Tsunami Hazard Mitigation Program Warning Coordination Subcommittee

Based on the 2014 USGS Science Application for Risk Reduction Tsunami Scenario





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### 1. Background

This tsunami exercise is being conducted to assist tsunami preparedness efforts along the U.S. and Canadian Pacific coasts. Historical tsunami records from the National Oceanic and Atmospheric Administration's (NOAA) National Geophysical Data Center (NGDC) show that approximately 85% of the world's oceanic tsunamis occur in the Pacific Basin and surrounding seas. Tsunamis have impacted U.S. and Canadian Pacific coasts several times in the past century with devastating results. Preparing and exercising emergency response plans throughout this region is an important part of tsunami preparedness.

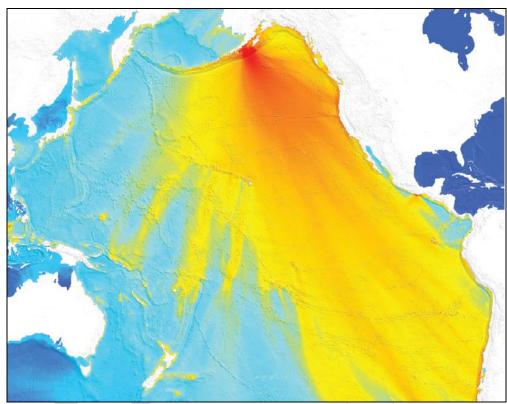
Scenario: The PACIFEX14 exercise simulates a tsunami generated by a major subduction zone earthquake located south of the Alaska Peninsula. This tsunami scenario was developed by the United States Geological Survey (USGS) Science Application for Risk Reduction (SAFRR) project which included contributions from the USGS, NOAA, California Geological Survey (CGS), California Governor's Office of Emergency Services (Cal OES), and other academic, private, and government organizations (Ross et al., 2013). The SAFRR scenario depicts a hypothetical, but plausible, worst case scenario for a distant tsunami impacting southern California. A full description of the SAFRR scenario can be found at http://pubs.usgs.gov/of/2013/1170/index.html. The report describes the source as:

...The source earthquake for the scenario, defined by the USGS Tsunami Source Working Group, is set in the Semidi subduction sector, between Kodiak Island and the Shumagin Islands off the Pacific coast of the Alaska Peninsula (Figure 1). The strike of the fault in that area tends to focus the waves towards the California coast and especially towards southern California and the economically critical Ports of Los Angeles and Long Beach. The Semidi sector's geology and tectonic setting are similar to the setting of the 2011 Tohoku event, so the assumed slip distribution is approximately that of the Tohoku earthquake adapted to the 2 fault structure in the Semidi sector. The scenario earthquake has a moment magnitude of 9.1 and a fault length of 360 km...

### Expected inundation to California is described by the report as:

...Over the entire California coastline, less than 40 percent of the State's maximum tsunami inundation zone is flooded in the SAFRR Tsunami Scenario. Fourteen cities have more than 1,000 residents in the scenario inundation area, with the largest affected areas in Long Beach and San Diego. Other highly impacted areas are lowlying portions of southern Los Angeles and northern Orange Counties, along with coastal communities in Northern California including Del Norte, Marin, San Francisco, Alameda, and Santa Cruz Counties. Nearly 92,000 people live inside the SAFRR Tsunami Scenario inundation zone. An additional 175,000 residents would be evacuated if such an order were to be given using the State's maximum tsunami inundation zone. An estimated 81,000 employees would be in the scenario inundation zone with an additional 88,000 within the State's maximum tsunami inundation zone. Additionally, more than 260,000 visitors would be expected on California's beaches and in parks on the day of the scenario event. The visitor numbers would increase to over one million if the same tsunami were to occur during

summer months, when beach and coastal use is highest. An estimated 8,500 residents in the SAFRR tsunami scenario inundation zone would likely need shelter because of damage to their homes. Some island and peninsula communities, and low-lying landfill islands within the ports, could provide serious evacuation challenges because of limited exit options and short warning time prior to expected inundation. Evacuations would also be a challenge for dependent-care populations such as patients in hospitals and nursing homes and children in daycare facilities. Education and planning tailored to each of these communities would be required to make tsunami evacuations successful...



**Figure 1.** Maximum wave heights of the tsunami simulated in the SAFRR (Science Application for Risk Reduction) tsunami scenario across the Pacific basin used in the Pacifex14 Exercise. Note that red is 3m and greater; orange approximately 1m; yellow approximately 0.2m; and blue 0.15m and below. From USGS Open File Report 2013-1170-A.

The SAFRR project performed a detailed assessment of potential economic impact to California due to this tsunami. The report describes this impact as:

...A significant economic impact of the scenario in California may be disruptions of the Ports of Los Angeles and Long Beach. A tsunami warning would advise evacuation of port personnel. Strong and dangerous currents would last for two days. Therefore, the ports would be shut down for at least that long. There would also be inundation of dry land in the ports resulting in approximately \$100 million in damages to container and vehicle cargo and related systems, and additional downtime at some terminals. The direct exposure of port trade value from damages

and downtime totals more than \$1.2 billion, while associated business interruption losses would be more than triple that value. However, resilience in the forms of using excess cargo handling capacity, using existing inventories of materials, and working extra shifts could reduce these business interruption losses by an order of magnitude.

Coastal fisheries, particularly invertebrate species such as sea cucumber, sea urchin, inshore crab, and spiny lobster are vulnerable to risk from surge, debris or other habitat damage and fishery disruptions. Collectively these fisheries are valued at about \$78 million per year. Shellfish farms and restored shellfish beds along the central and northern California coast and San Francisco Bay area are also at risk. Business interruption to commercial fishing at the ports would involve lost fishing days, perished catch, and damages to vessels, but in our estimates an allowance was made for the industry to make up for lost fishing days.

Although there is only a small exposure for the agricultural sector, there would be damage and impacts to soils, crops, and infrastructure that have not been experienced in recent distant-source tsunamis. Repair to agricultural fields and infrastructure could cost \$4 million. This estimate does not include soil remediation, which could add substantially to costs...

<u>Exercise:</u> To help communities respond to tsunami hazards, NOAA operates a tsunami warning system for U.S. Pacific coasts and western Canada through its National Tsunami Warning Center (NTWC) in Palmer, Alaska and the Pacific Tsunami Warning Center (PTWC) in Ewa Beach, Hawaii. These Centers provide tsunami warning, advisory, watch, and information messages approximately five minutes after an earthquake's occurrence for earthquakes in the United States and Canada. Primary recipients of Tsunami Warning Center (TWC) messages include National Weather Service (NWS) coastal Weather Forecast Offices (WFOs), state/territory warning points, national Coast Guards, Canada's Provincial Emergency Program, national tsunami warning focal points, and military organizations. These agencies transmit the message to people potentially impacted by a tsunami.

NOAA, the National Tsunami Hazard Mitigation Program (NTHMP), and the USGS through its SAFRR study are providing the framework for this exercise as a means for emergency responders along Pacific coasts to test and update tsunami response plans. High levels of vulnerability along the Pacific coast and the well-known tsunami threat in the Pacific should provide a strong incentive for local jurisdictions to prepare for a tsunami.

This exercise is driven by tsunami warning messages from the NTWC in response to a hypothetical earthquake located 100 miles SE of Chignik, Alaska. Exercises like this will ensure that the U.S./Canadian Pacific coasts are ready to respond in case of a dangerous tsunami. Other recent tsunami exercises in the Pacific and Atlantic Basins have proven effective in strengthening preparedness levels of emergency management organizations.

### 2. Exercise Concept

### 2.1 Purpose

The purpose of this exercise is to improve the effectiveness of the tsunami warning system along the U.S. and Canadian Pacific coasts. The exercise provides an opportunity for emergency management organizations along these coasts to test their operational lines of communications, review their tsunami response procedures, and promote tsunami preparedness. Regular exercising of response plans is critical to maintain readiness for an emergency. This is particularly true for tsunamis which are infrequent, but high impact events. Every coastal U.S. and Canadian Pacific emergency management organization (EMO) is encouraged to participate.

### 2.2 Objectives

Each organization can develop their own objectives for the exercise depending on their level of involvement in the scenario. The following are the exercise's overarching objectives.

- Ensure message transmission from the TWCs to primary tsunami warning recipients.
- To improve operational readiness of the Tsunami Warning System by testing tsunami response plans for EMOs that have developed plans, and provide a catalyst for other EMOs that have not developed plans.
- Review communication alternatives for receiving tsunami messages, locally disseminating tsunami alerts, and evaluate potential response actions and challenges at EMOs and Tsunami Warning Focal Points (TWFP).
- Identify processes to issue local all-clear notices.

### 2.3 Type of Exercise

The exercise should be carried out such that communications and decision making at various organizational levels are exercised and conducted without disrupting or alarming the general public. Individual localities, however, may at their discretion elect to extend the exercise down to the level of testing local notification systems such as the Emergency Alert System (EAS), sirens, or loudspeakers.

Exercises stimulate the development, training, testing, and evaluation of Disaster Plans and Standard Operating Procedures. Exercise participants may use their own past multi-hazard drills (e.g. flood, hurricane, tsunami, earthquake, etc.) as a framework to conduct PACIFEX 14.

Exercises can be conducted at various scales of magnitude and sophistication. The following are examples of types of exercises conducted by EMOs:

- Orientation Exercise (Seminar): An Orientation Exercise lays the groundwork for a comprehensive exercise program. It is a planned event, developed to bring together individuals and officials with a role or interest in multi-hazard response planning, problem solving, development of standard operational procedures (SOPs), and resource integration and coordination. An Orientation Exercise will have a specific goal and written objectives and result in an agreed upon Plan of Action.
- Drill: The Drill is a planned activity that tests, develops, and/or maintains skills in a single or limited emergency response procedure. Drills generally involve operational response of single departments or agencies. Drills can involve internal notifications and/or field activities.
- 3. **Tabletop Exercise:** The Tabletop Exercise is a planned activity in which local officials, key staff, and organizations with disaster management responsibilities are presented with simulated emergency situations. It is usually informal, in a conference room environment, and is designed to elicit constructive discussion from the participants. Participants will examine and attempt to resolve problems, based on plans and procedures, if they exist. Individuals are encouraged to discuss decisions in depth with emphasis on slow-paced problem solving, rather than rapid, real time decision-making. A Tabletop Exercise should have specific goals, objectives, and a scenario narrative (see Appendix A for a Sample Tabletop Exercise Outline).
- 4. Functional Exercise: A Functional Exercise is a planned activity designed to test and evaluate organizational capacities. It is also utilized to evaluate the capability of a community's emergency management system by testing the Emergency Operations Plan (EOP). It is based on a simulation of a realistic emergency situation that includes a description of the situation (narrative) with communications between players and simulators. The Functional Exercise gives the players (decision-makers) a fully simulated experience of being in a major disaster event. It should take place at the appropriate coordination location (i.e. emergency operations center, emergency command center, command post, master control center, etc.) and activate all the appropriate members designated by the plan. Both internal and external agencies (government, private sector, and volunteer agencies) should be involved. It requires players, controllers, simulators, and evaluators. Message traffic will be simulated and inserted by the control team for player response/actions, under real time constraints. It may or may not include public evacuations. A Functional Exercise should have specific goals, objectives, and a scenario narrative.
- 5. Full-scale Exercise: A Full-scale Exercise is the culmination of a progressive exercise program that has grown with the capacity of the community to conduct exercises. A Full-Scale exercise is a planned activity in a "challenging" environment that encompasses a majority of the emergency management functions. This type of exercise involves the actual mobilization and deployment of the appropriate personnel and resources needed to demonstrate operational capabilities. EOCs and other command centers are required to be activated. A Full-scale Exercise is the largest, costliest, and most complex exercise type. It may or may not include public evacuations.

### Example Time Frames for Different Exercise Types

Style	Planning Period	Duration	Comments
Orientation Exercise	2 wks	1 day	Individual or mixed groups
Drill	2 days	1 day	Individual technical groups generally
Tabletop Exercise	2 weeks	1-3 days	Single or multiple agency
Functional Exercise	1-2 months	1-5 days	Multiple Agency participation
Full-scale Exercise	2-6 months	1 day/ week	Multiple Agency participation

### 3. Exercise Outline

### 3.1 General

Tsunami Warning, Advisory, and Watch messages for this exercise are issued by the NTWC based on a hypothetical earthquake with the following hypocenter parameters:

- Origin Time 18:50:00 UTC March 27, 2014
- Latitude 55.2°N

• Longitude 156.7°W

- Magnitude 9.1 Mw
- Depth 18.5 km

Expected impact for this event is based on the SAFRR project results (The SAFRR Tsunami Modeling Working Group, 2013). Appendix B summarizes some of the project results.

Definitions of the products that will be issued by the TWC during this exercise are provided below.

### National Tsunami Warning Center:

**Tsunami Warning** - A tsunami warning is issued when a tsunami with the potential to generate widespread inundation is imminent, expected, or occurring. Warnings alert the public that dangerous coastal flooding accompanied by powerful currents is possible and may continue for several hours after initial arrival. Warnings alert emergency management officials to take action for the entire tsunami hazard zone. Appropriate actions to be taken by local officials may include the evacuation of low-lying coastal areas, and the repositioning of ships to deep waters when there is time

to safely do so. Warnings may be updated, adjusted geographically, downgraded, or cancelled. To provide the earliest possible alert, initial warnings are normally based only on seismic information.

**Tsunami Advisory** - A tsunami advisory is issued due to the threat of a potential tsunami which may produce strong currents or waves dangerous to those in or near the water. Coastal regions historically prone to damage due to strong currents induced by tsunamis are at the greatest risk. The threat may continue for several hours after the arrival of the initial wave, but significant widespread inundation is not expected for areas under an advisory. Appropriate actions to be taken by local officials may include closing beaches, evacuating harbors and marinas, and the repositioning of ships to deep waters when there is time to safely do so. Advisories are normally updated to continue the advisory, expand/contract affected areas, upgrade to a warning, or cancel the advisory.

**Tsunami Watch** - A tsunami watch is issued to alert emergency management officials and the public of an event which may later impact the watch area. The watch area may be upgraded to a warning or advisory - or canceled - based on updated information and analysis. Therefore, emergency management officials and the public should prepare to take action. Watches are normally issued based on seismic information without confirmation that a destructive tsunami is underway.

The TWC will not issue live messages over broadcast dissemination channels other than to issue an initial dummy message to start the exercise at 1854 UTC on March 27, 2014. The content of the dummy message is given in Appendix C. The dummy message will indicate that exercise participants should refer to the first message provided in this handbook. From then on, participants should follow the schedule in Table 1 to look at new messages. Table 1 is the timeline for when messages would be issued by the TWC if this were a real event, and can be used by EMOs to drive the exercise timing. The warning messages (as shown in Appendix D) cover a 48-hour period. World Meteorological Organization (WMO) and Advanced Weather Interactive Processing System (AWIPS) headers used in the dummy message are listed in Table 2.

The NTWC issues two official products each time a message is issued. The ones provided in Appendix D are known as the public message and do not contain codes or text intended for automated systems. The public message format has been recently updated to a bulleted format. The other message not shown in Appendix D is the segmented message. This message includes encoded NWS zones, Valid Time Event Codes (VTEC), and level of threat. The segmentation is used for automated processing systems which parse NWS products.

Participants may elect to exercise using their own timelines in order to achieve their particular objectives. For example, a particular EMO's Exercise Controller may choose to feed the TWC bulletins into the exercise at times of their own choosing, or alternatively put them in envelopes with the time they must be opened written on each, with each key participant agency having their own set of envelopes. The messages, provided in Appendix D, will facilitate this approach.

EMOs are welcome to modify estimated arrival times and/or wave amplitudes to suit their exercise – for example, to have the tsunami arrive sooner and with larger amplitude. Other exercise injects, such as tsunami damage reports, are also encouraged.

### 3.2 Master Schedule (Exercise Script)

### Table 1: Scenario Timeline

Tsunami generated by a magnitude 9.1 earthquake with epicenter at 55.2°N, 156.7°W occurring on March 27, 2014 at 1850 UTC. The initial warning is being disseminated at 1854 UTC.

Date (UTC)	Time (UTC)		NTWC Message	
(010)	(010)	#	Туре	Dummy
03/27/2014	1850		***Earthquake	Occurs***
03/27/2014	1854	01	Warn/Wat/Dummy	Yes
03/27/2014	1931	02	Warn/Wat	No
03/27/2014	2003	03	Warn/Wat	No
03/27/2014	2105	04	Warn/Adv	No
03/27/2014	2201	05	Warn/Adv	No
03/27/2014	2301	06	Warn/Adv	No
03/28/2014	0002	07	Warn/Adv	No
03/28/2014	0101	08	Warn/Adv	No
03/28/2014	0201	09	Warn/Adv	No
03/28/2014	0301	10	Warn/Adv	No
03/28/2014	0401	11	Warn/Adv	No
03/28/2014	0501	12	Warn/Adv	No
03/28/2014	0600	13	Warn/Adv	No
03/28/2014	0701	14	Warn/Adv	No
03/28/2014	0800	15	Warn/Adv	No
03/28/2014	0901	16	Warn/Adv	No
03/28/2014	1000	17	Warn/Adv	No
03/28/2014	1100	18	Warn/Adv	No
03/28/2014	1200	19	Warn/Adv	No
03/28/2014	1300	20	Warn/Adv	No
03/28/2014	1401	21	Warn/Adv	No
03/28/2014	1500	22	Warn/Adv	No
03/28/2014	1601	23	Warn/Adv	No
03/28/2014	1701	24	Warn/Adv	No
03/28/2014	1801	25	Warn/Adv	No
03/28/2014	1902	26	Warn/Adv	No
03/28/2014	2000	27	Warn/Adv	No
03/28/2014	2101	28	Warn/Adv	No
03/28/2014	2200	29	Warn/Adv	No
03/28/2014	2300	30	Warn/Adv	No
03/29/2014	0004	31	Warn/Adv	No
03/29/2014	0101	32	Warn/Adv	No
03/29/2014	0201	33	Warn/Adv	No
03/29/2014	0302	34	Warn/Adv	No
03/29/2014	0402	35	Warn/Adv	No
03/29/2014	0500	36	Warn/Adv	No
03/29/2014	0600	37	Warn/Adv	No
03/29/2014	0700	38	Warn/Adv	No
03/29/2014	0800	39	Warn/Adv	No

03/29/2014	0901	40	Warn/Adv	No
03/29/2014	1000	41	Warn/Adv	No
03/29/2014	1101	42	Warn/Adv	No
03/29/2014	1200	43	Warn/Adv	No
03/29/2014	1300	44	Warn/Adv	No
03/29/2014	1401	45	Warn/Adv	No
03/29/2014	1501	46	Warn/Adv	No
03/29/2014	1601	47	Warn/Adv	No
03/29/2014	1702	48	Adv	No
03/29/2014	1801	49	Adv	No
03/29/2014	1900	50	Can	No

The initial dummy message will be disseminated over all standard TWC broadcast channels as listed in Table 2. This is being issued to test communications with primary warning recipients, and to start the exercise. *Please note that the NTWC Dummy message is being issued with the WMO ID WEAK51 PAAQ and AWIPS ID TSUAK1.* 

#### TWC Message Types:

Warn	Tsunami Warning
Adv	Tsunami Advisory
Wat	Tsunami Watch
Can	Cancellation

#### Dummy:

Yes	Dummy Issued
NI-	Dumenter Mark Income

No	Dummy	Not	Issued
	Dunniny	NOL	133060

#### Table 2: Product Types

Product Types Issued for Dummy Message with Transmission Methods

Center	WMO ID	AWIPS ID	NWWS	GTS	EMWIN	AISR	Fax	Email
NTWC	WEAK51 PAAQ	TSUAK1	Yes	Yes	Yes	Yes	Yes	Yes

NVVVS
GTS
EMWIN
AISR

NOAA Weather Wire Service

Global Telecommunications System

Emergency Manager's Weather Information Network

Aeronautical Information System Replacement

### 3.3 Actions in Case of a Real Event

In the case of a real event occurring during the exercise, the TWC will issue their normal messages for the event. Such messages will be given full priority and a decision will be made by the TWC whether to issue the dummy message. Smaller earthquakes that only trigger a Tsunami Information Statement will not disrupt the exercise. All documentation and correspondence relating to this exercise is to be clearly identified as "**PACIFEX 14**" and "**Exercise**."

### 3.4 Procedure for False Alarm

Any time disaster response exercises are conducted, the potential exists for the public or media to interpret the event as real. Procedures should be set up by all participating entities to address public or media concerns involving this exercise in case of misinterpretation by media or the public.

### 3.5 Resources

Although EMOs will have advance notice of the exercise and may elect to stand up a special dedicated shift to allow normal core business to continue uninterrupted, it is requested that realistic resource levels be deployed in order to reflect some of the issues that are likely to be faced in a real event.

Questions on the exercise can be addressed to:

Person	Telephone #	Email
Kevin Miller CA EMA, Tsunami PM	510-286-0817	kevin.miller@calema.ca.gov
Althea Turner OR OEM Tsunami PM	503-378-2911	Althea.Rizzo@state.or.us
John Schelling WA EMD Tsunami PM	253-512-7084	j.schelling@emd.wa.gov
Teron Moore BC PEP Tsunami PM	250-952-5834	teron.moore@gov.bc.ca
Erv Petty AK DHS&EM Tsunami PM	907-428-7015	ervin.petty@alaska.gov
Paul Whitmore NTWC Director	907-745-4212	<u>paul.whitmore@noaa.gov</u>
James Waddell NTWC Rep.	907-745-4212	james.waddell@noaa.gov

### 3.6 Media Arrangements

One advantage in conducting exercises is that it provides a venue to promote awareness of the exercise topic. Many residents along the Pacific coast may not realize that a tsunami warning system exists for their region, let alone the proper response. Communities may wish to invite their local media to the exercise to promote local awareness of the tsunami hazard. Appendix E contains a sample press release which can be adapted as necessary.

### 4. References

Kirby, S., Scholl, D., von Huene, R., and Wells, R., 2013, Alaska earthquake source for the SAFRR tsunami scenario, chap. B *in* Ross, S.L., and Jones, L.M., eds., The SAFRR (Science Application for Risk Reduction) Tsunami Scenario: U.S. Geological Survey Open-File Report 2013–1170, 40 p., http://pubs.usgs.gov/of/2013/1170/b/.

Ross, S.L., Jones, L.M., Miller, Kevin, P., K.A., Wein, A., Wilson, Ri.I., Bahng, B., Barberopoulou, A., Borrero, J.C., Brosnan, D.M., Bwarie, J.T., Geist, E.L., Johnson, L.A., Kirby, S.H., Knight, W.R., Long, K., Lynett, P., Mortensen, C.E., Nicolsky, D.J.,

Perry, S.C., Plumlee, G.S., Real, C.R., Ryan, K., Suleimani, E., Thio, H., Titov, V.V., Whitmore, P.M. and Wood, N.J., 2013, SAFRR (Science Application for Risk Reduction) Tsunami Scenario—Executive Summary and Introduction: U.S. Geological Survey Open-File Report 2013–1170–A, *in* Ross, S.L., and Jones, L.M., eds., The SAFRR (Science Application for Risk Reduction) Tsunami Scenario: U.S. Geological Survey Open-File Report 2013–1170, 17 p., http://pubs.usgs.gov/of/2013/1170/a/.

The SAFRR Tsunami Modeling Working Group, 2013, Modeling for the SAFRR Tsunami Scenario—Generation, propagation, inundation, and currents in ports and harbors, chap. D *in* Ross, S.L., and Jones, L.M., eds., The SAFRR (Science Application for Risk Reduction) Tsunami Scenario: U.S. Geological Survey Open-File Report 2013–1170, 136 p., http://pubs.usgs.gov/of/2013/1170/d/.

### Appendix A. Example Tabletop Exercise

### **Tabletop Exercise Development Steps**

Source: California Office of Emergency Services

A Tabletop Exercise is a planned activity in which local officials, key staff, and organizations with disaster management responsibilities are presented with simulated emergency situations. It is usually informal and slow paced, in a conference room environment, and is designed to elicit constructive discussion from the participants to assess plans, policies, and procedures. Participants will examine and attempt to resolve problems, based on plans and procedures, if they exist. Individuals are encouraged to discuss decisions in depth based on their organization's Standard Operating Procedures (SOPs), with emphasis on slow-paced problem solving, rather than rapid, real time decision-making. An Exercise Controller (moderator) introduces a simulated tsunami scenario to participants via written message, simulated telephone or radio call, or by other means. Exercise problems and activities (injects) are further introduced. Participants conduct group discussions where resolution is generally agreed upon and then summarized by a group leader. A Tabletop Exercise should have specific goals, objectives, and a scenario narrative.

The following provides a Tabletop Exercise structure with sample text and example.

#### 1. Vulnerability Analysis: Problem Statement

#### An example for a hurricane might be:

Due to the recent Hurricane incidents that the Southeast region of the United States, an awareness of the threat risk involved in these disasters has become more apparent, therefore the need for evacuation system is vital. The state of Louisiana continues its ongoing tasks of planning, preparing, and training for Hurricane preparedness.

### 2. Purpose (Mission): Intent, what you plan to accomplish (Policy Statement)

#### An example for a hurricane might be:

The State of Louisiana has realized and recognizes the need for a more efficient and effective evacuation system, and is responding with this Comprehensive Exercise Plan. These events will include seminars, workshops, a tabletop exercise, functional and full-scale exercises within an 18-month time frame, under the State Homeland Security grant program.

#### 3. Scope: Exercise Activities Agencies Involved Hazard Type Geographic Impact Area

#### An example might be:

Emergency Services coordinators at local levels of government will identify representative jurisdictions from each of the six mutual aid regions located throughout the State to participate as host jurisdictions in a series of disaster preparedness exercises. These host jurisdictions will develop a progressive series of exercises each type building upon the previous type of exercise. The process will begin with a vulnerability analysis for each jurisdiction and continue through a progression of exercise activities including: orientation seminars, workshops, and tabletop and functional exercises. The eventual objective of these activities will be to reduce disaster impacts to their populations and city infrastructure. All events will be evaluated utilizing US Homeland Security Exercise Evaluation Program (HSEEP) after action reporting (AAR)

standards. Steps for corrective actions will be made a part of the after action process and report. Surrounding jurisdictions in the mutual aid area will act as exercise design team members, exercise evaluators, or exercise observers for the purpose of information transfer to increase their operational readiness. Jurisdictions will participate on a rotational basis every two years to provide the opportunity for multiple jurisdiction participation.

### 4. Goals and Objectives:

Criteria for good objectives: Think SMART

- Simple (concise)
- Measurable
- Achievable (can this be done during the exercise?)
- · Realistic (and challenging)
- Task Oriented (oriented to functions)

#### An example might be:

Comprehensive Exercise Program (CEP) Objectives

• To improve operational readiness

• To improve multi-agency coordination and response capabilities for effective disaster response

To identify communication pathways and problem areas pre-event between local jurisdictions and operational area, regional and state emergency operations centers
To establish uniform methods for resource ordering, tracking, and supply for agencies involved at all levels of government.

#### 5. Narrative:

The Narrative should describe the following:

- Triggering emergency/disaster event
- Describe the environment at the time the exercise begins
- Provide necessary background information
- Prepare participants for the exercise
- Discovery, report: how do you find out?
- Advance notice?
- Time, location, extent or level of damage

#### 6. Evaluation:

The Evaluation should describe the following:

- Objectives Based
- Train Evaluation Teams
- Develop Evaluation Forms

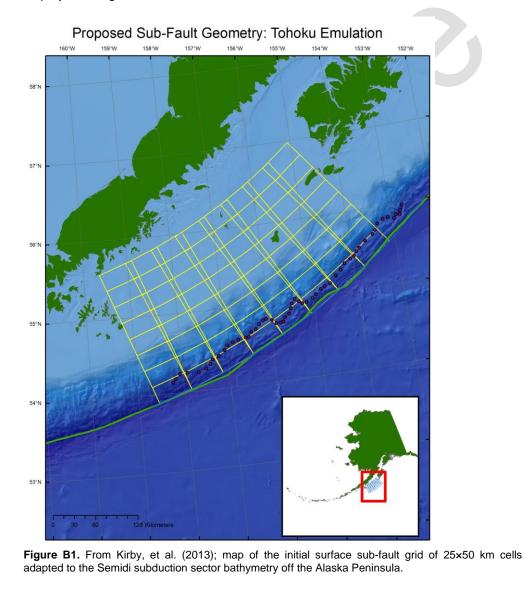
7. After Action Report (AAR): The AAR should be compiled using the evaluation reports

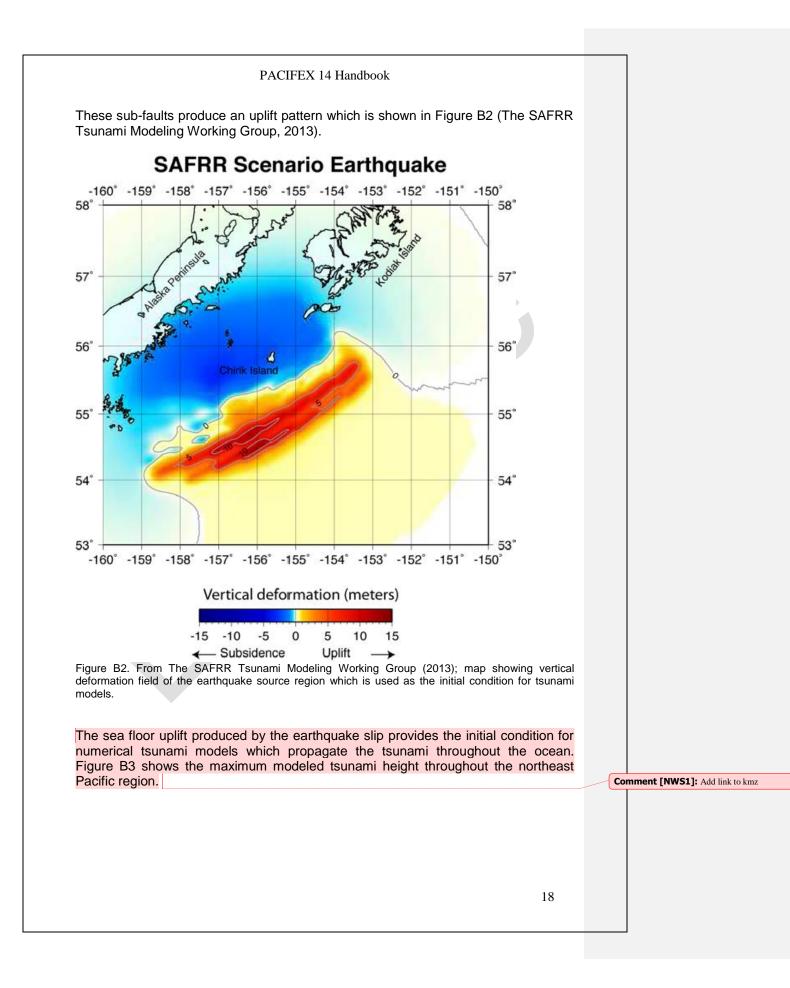
8. Improvement Plan (IP): The IP should reduce vulnerabilities.

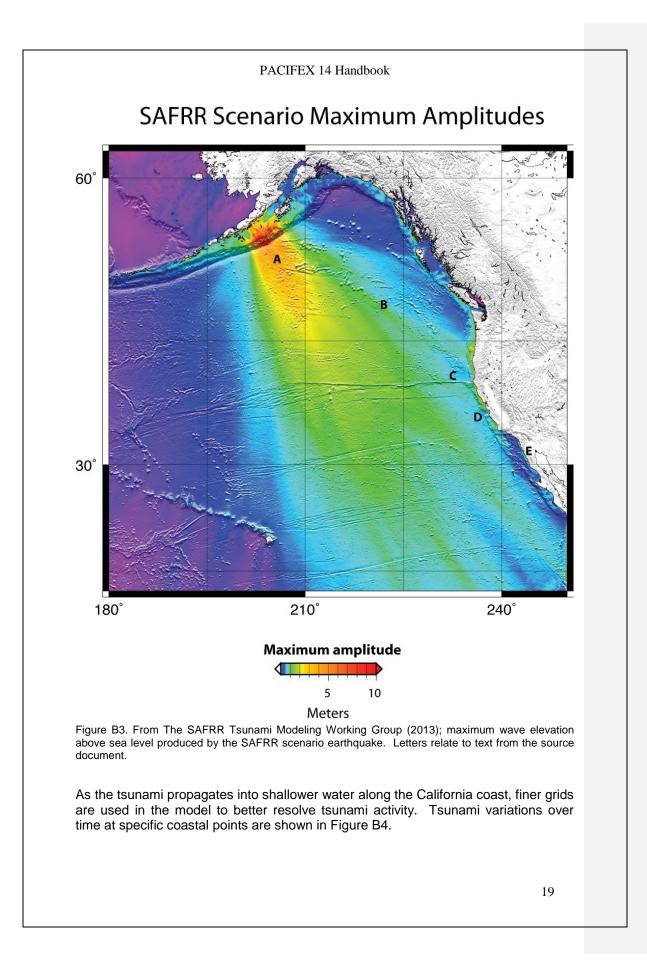
### Appendix B. Scenario Description

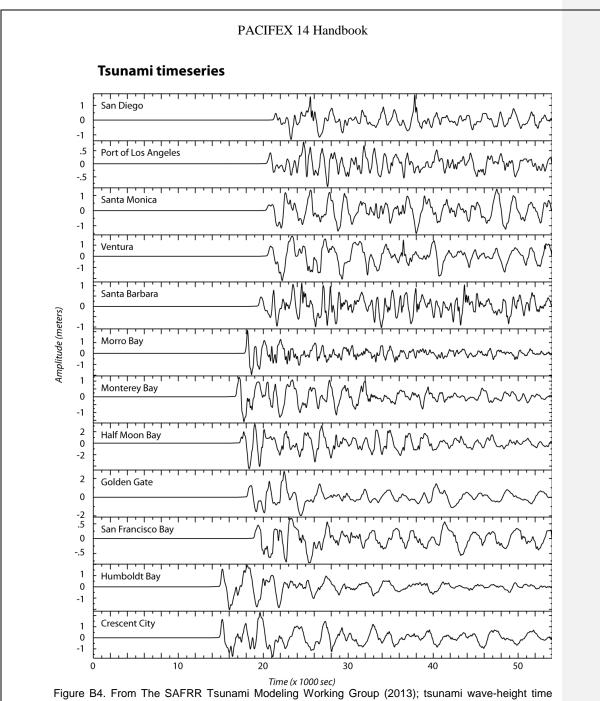
Extensive modeling was performed for the source by The SAFRR Tsunami Modeling Working Group (2013) based on a source described by Kirby, et al. (2013). Results from these two studies are excerpted here and are fully available at <a href="http://pubs.usgs.gov/of/2013/1170/d/">http://pubs.usgs.gov/of/2013/1170/d/</a> and <a href="http://pubs.usgs.gov/of/2013/1170/b/index.html">http://pubs.usgs.gov/of/2013/1170/b/index.html</a>.

The source is based on the 2011 magnitude 9.1 Tohoku earthquake. Multiple subfaults (64) are described which mimic the behavior of the 2011 earthquake and are displayed in Figure B1.



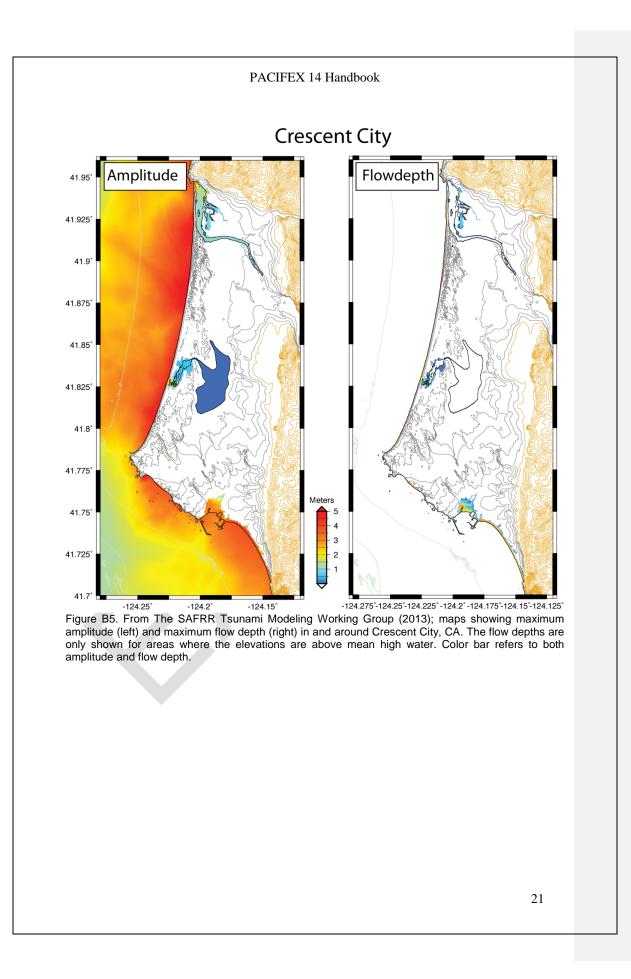






series from the scenario tsunami for various locations along the California coast.

In addition to describing the tsunami characteristics over time as in Figure B4, The SAFRR Tsunami Modeling Working Group (2013) also produced many detailed maps showing inundation and flow levels at specific California communities and are reproduced in Figures B5 through B12.



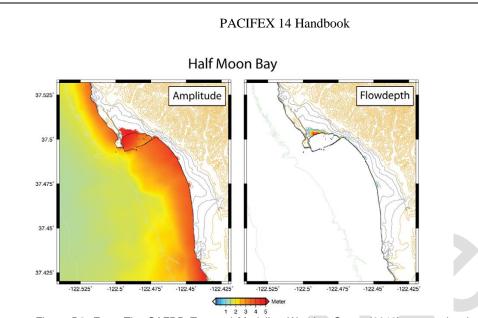


Figure B6. From The SAFRR Tsunami Modeling Working Group (2013); maps showing maximum amplitude (left) and maximum flow depth (right) in and around Half Moon Bay, CA. The flow depths are only shown for areas where the elevations are above mean high water. Color bar refers to both amplitude and flow depth.

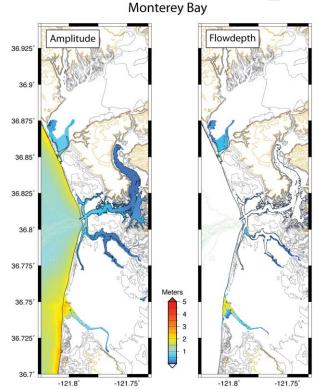
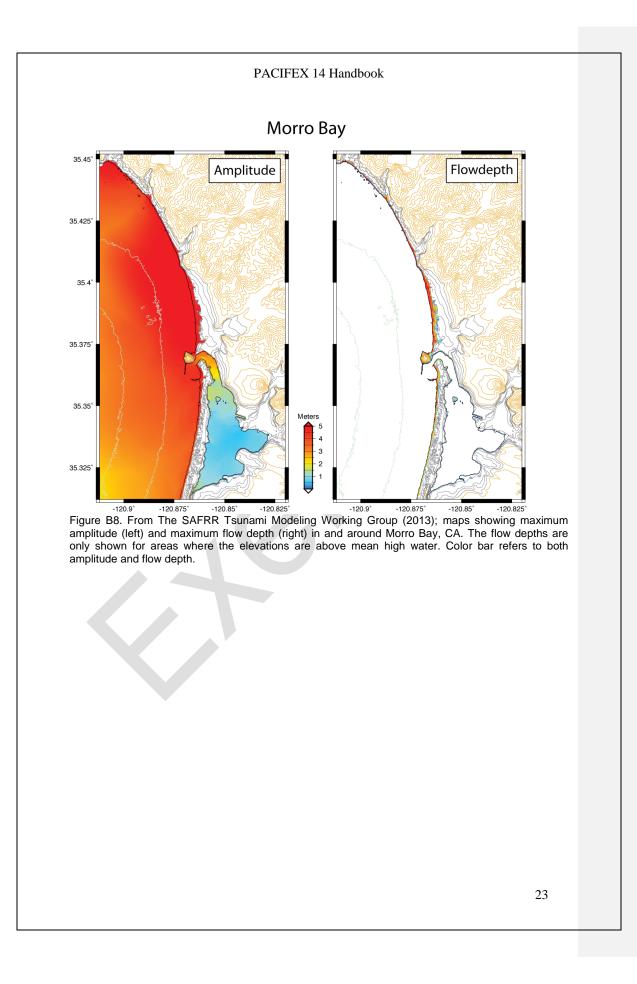
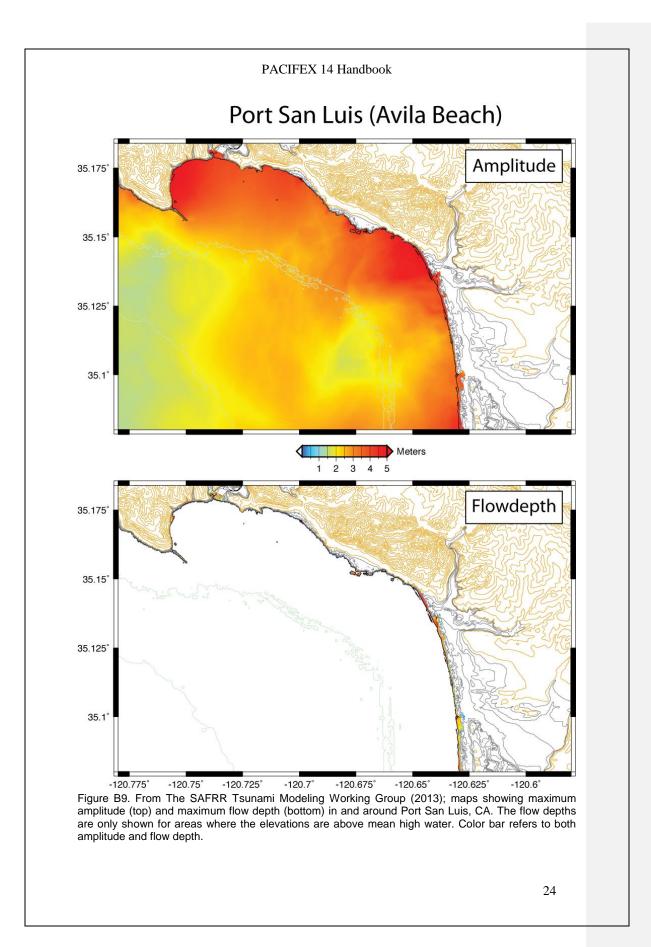
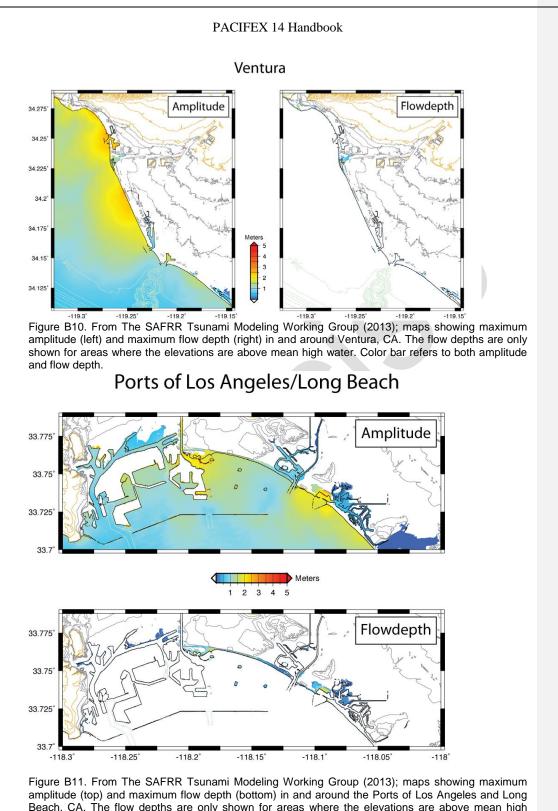


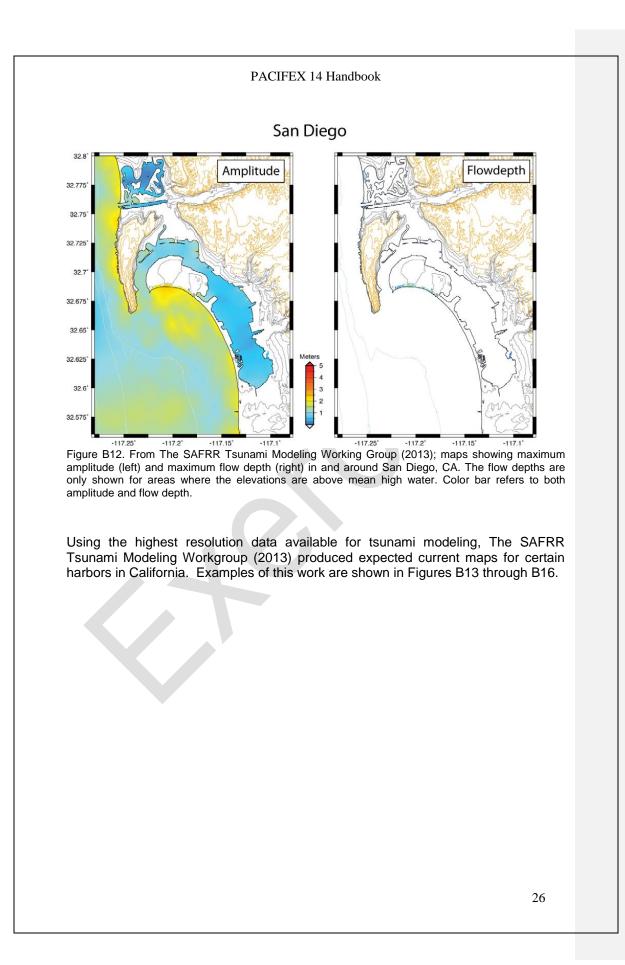
Figure B7. From The SAFRR Tsunami Modeling Working Group (2013); maps showing maximum amplitude (left) and maximum flow depth (right) in and around Monterey Bay, CA. The flow depths are only shown for areas where the elevations are above mean high water. Color bar refers to both amplitude and flow depth.

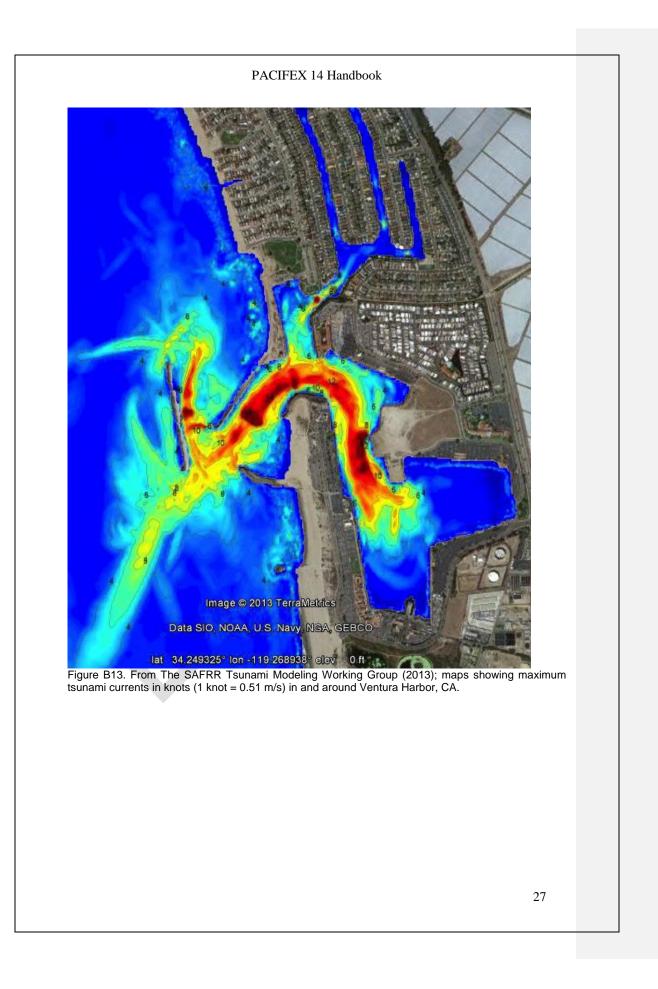


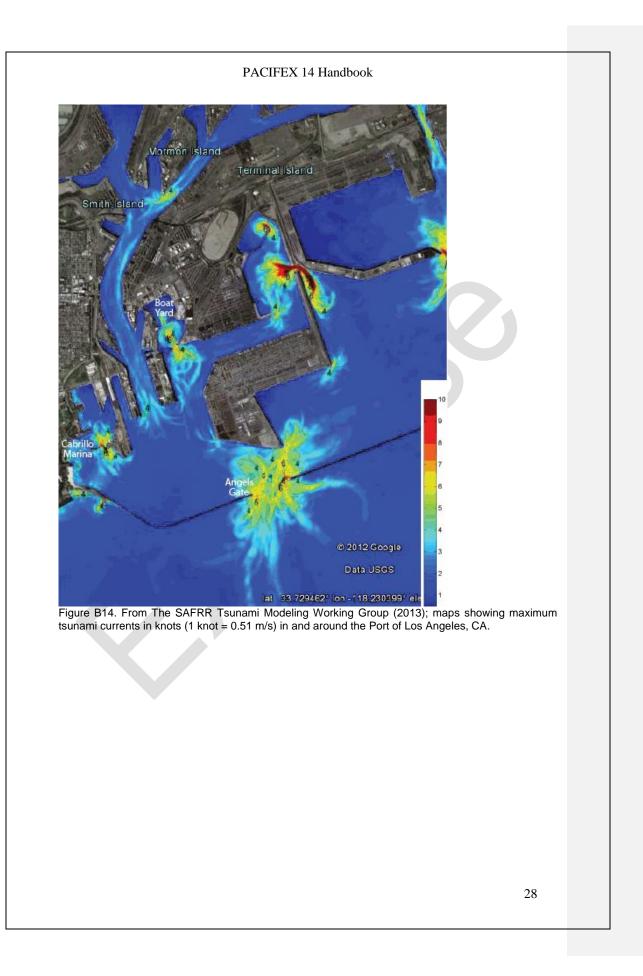


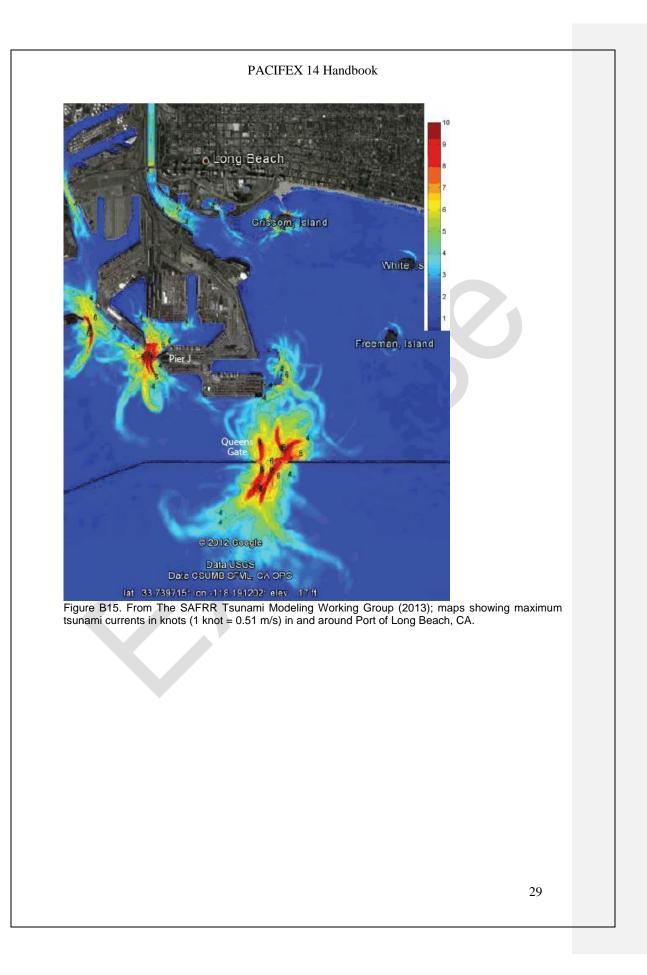


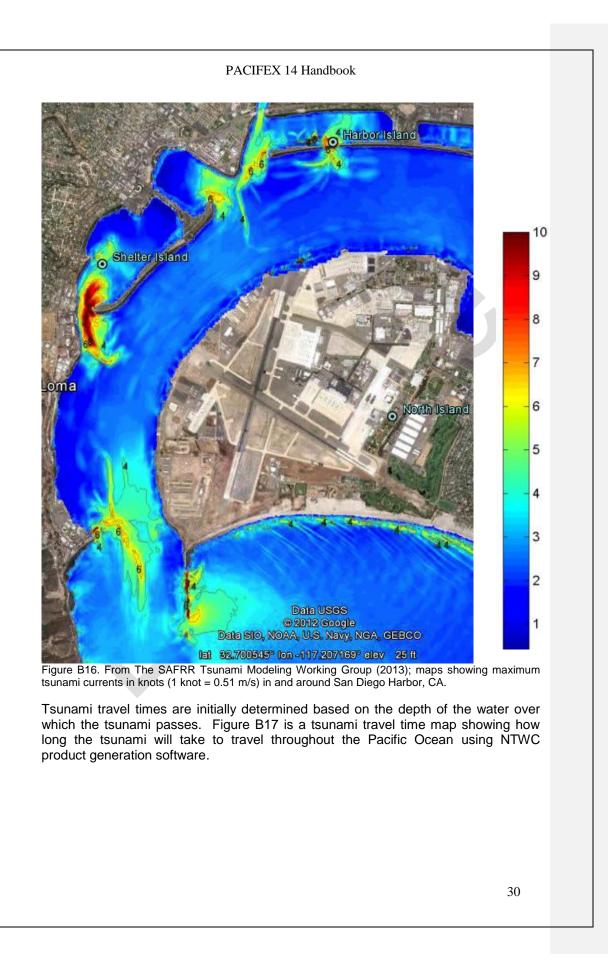
amplitude (top) and maximum flow depth (bottom) in and around the Ports of Los Angeles and Long Beach, CA. The flow depths are only shown for areas where the elevations are above mean high water. Color bar refers to both amplitude and flow depth.

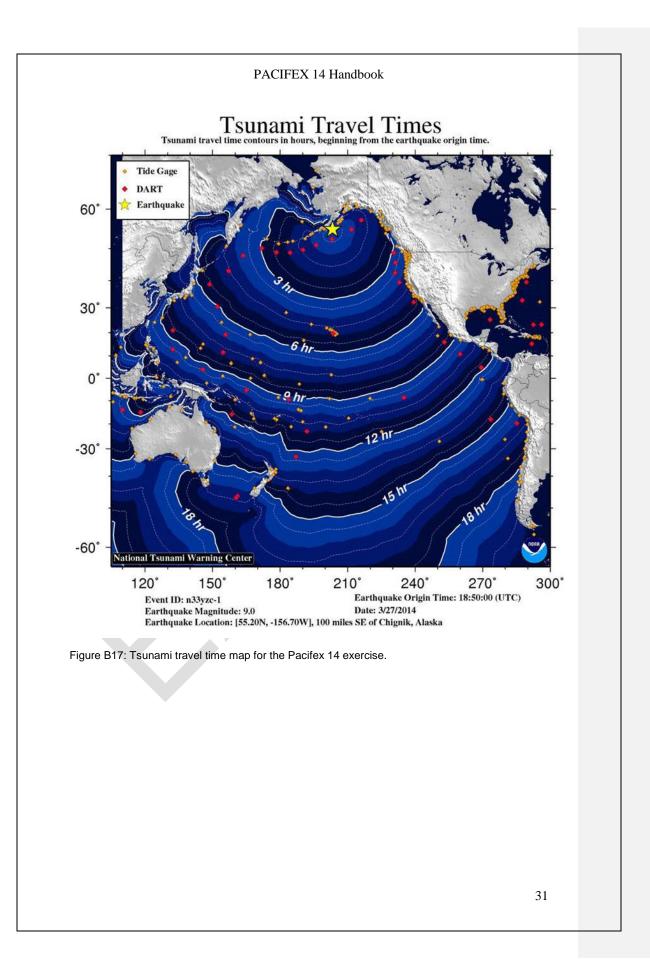










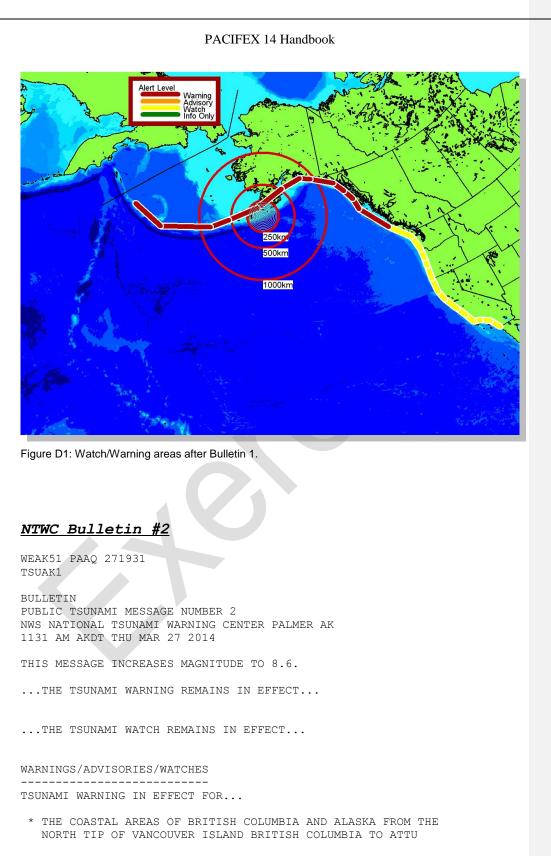


	PACIFEX 14 Handbook
Appendix C. TWC	Dummy Message
NTWC	
WEAK51 PAAQ 271854 TSUAK1	
	ISE MESSAGE NUMBER 1TEST WARNING CENTER PALMER AK 27 2014
PACIFEX 14 TSUNAM HANDBOOK. THIS IS AN	I EXERCISE MESSAGE. REFER TO NTWC MESSAGE 1 IN THE EXERCISE EXERCISE ONLY
THIS WILL BE THE ONL WARNING CENTER. THE NTWC.ARH.NOAA.GOV. T	G USED TO START THE PACIFEX 14 PACIFIC TSUNAMI EXERCISE. Y EXERCISE MESSAGE BROADCAST FROM THE NATIONAL TSUNAMI EXERCISE HANDBOOK IS AVAILABLE AT THE WEB SITE HE EXERCISE PURPOSE IS TO PROVIDE EMERGENCY MANAGEMENT A O TEST TSUNAMI RESPONSE PLANS.
THIS IS ONLY AN EXER	CISE.

### PACIFEX 14 Handbook Appendix D. TWC Exercise Messages The following messages, created for the PACIFEX 14 tsunami exercise, are representative of the official standard products issued by the NTWC during a large magnitude 9.1 earthquake and tsunami originating 100 miles southeast of Chignik, Alaska at 55.2°N, 156.7°W. During a real event, the TWC would also issue graphical and html-based products to their web sites and via RSS. NTWC Bulletin #1 WEAK51 PAAQ 271854 TSUAK1 BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 1 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1054 AM AKDT THU MAR 27 2014 ... A TSUNAMI WARNING IS NOW IN EFFECT... ... A TSUNAMI WATCH IS NOW IN EFFECT... WARNINGS/ADVISORIES/WATCHES - UPDATED \_\_\_\_\_ TSUNAMI WARNING IN EFFECT FOR ... \* THE COASTAL AREAS OF BRITISH COLUMBIA AND ALASKA FROM THE NORTH TIP OF VANCOUVER ISLAND BRITISH COLUMBIA TO ATTU ALASKA TSUNAMI WATCH IN EFFECT FOR... \* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON AND BRITISH COLUMBIA FROM THE CALIFORNIA-MEXICO BORDER TO THE NORTH TIP OF VANCOUVER ISLAND BRITISH COLUMBIA PRELIMINARY EARTHQUAKE PARAMETERS \_\_\_\_\_ \* MAGNITUDE 8.2 \* ORIGIN TIME 1050 AKDT MAR 27 2014 1150 PDT MAR 27 2014 1850 UTC MAR 27 2014 \* COORDINATES 55.2 NORTH 156.7 WEST \* DEPTH 11 MILES \* LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER

	PACIFEX 14 Handbook	
TSUNAMI ARRI	VAL.	
* THE FIRST WA	VE MAY NOT BE THE LARGEST.	
IMPACTS FOR TSU	JNAMI WATCH AREAS	
* EXPECTED IMP	PACT IS UNKNOWN AT THIS TIME.	
* THE WATCH WI BEFORE EXPEC	LL BE UPGRADED OR CANCELED AT LEAST TWO HOURS TED IMPACT.	
RECOMMENDED ACT	TIONS - UPDATED	
* IF YOU ARE 1	IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.	
* IF YOU ARE 1	IN A WATCH AREA - STAY ALERT FOR FURTHER INSTRUCTIONS.	
* BE ALERT TO	INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.	
* DO NOT GO TO	) THE COAST TO OBSERVE THE TSUNAMI.	
	RN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS IS SAFE TO DO SO.	
	OR OBSERVATIONS OF TSUNAMI ACTIVITY	
	FORECAST	
	START OF	
SITE	OF TSUNAMI	
* ALASKA		
SAND POINT	1213 AKDT MAR 27	
KODIAK	1228 AKDT MAR 27	
UNALASKA	1231 AKDT MAR 27	
SEWARD COLD BAY	1253 AKDT MAR 27 1254 AKDT MAR 27	
ELFIN COVE	1255 AKDT MAR 27	
ADAK	1256 AKDT MAR 27	
YAKUTAT	1303 AKDT MAR 27	
SITKA	1303 AKDT MAR 27	
VALDEZ	1313 AKDT MAR 27	
CORDOVA	1322 AKDT MAR 27	
SHEMYA	1340 AKDT MAR 27	
HOMER	1346 AKDT MAR 27	
SAINT PAUL CRAIG	1333 AKDT MAR 27 1404 AKDT MAR 27	
* BRITISH COLU	JMBIA	
LANGARA	1413 PDT MAR 27	
TOFINO	1540 PDT MAR 27	
* WASHINGTON		
NEAH BAY	1552 PDT MAR 27	
LONG BEACH	1555 PDT MAR 27	
	34	

PACIFEX 14 Handbook					
MOCLIPS	1559	ייתס	MAR	27	
WESTPORT	1608				
PORT ANGELES					
PORT TOWNSEND					
IONI IOWNSEND	10//	IDI	I-II-IIV		
* OREGON					
PORT ORFORD	1558	PDT	MAR	27	
CHARLESTON	1603				
SEASIDE	1606				
NEWPORT	1610				
BROOKINGS					
* CALIFORNIA					
CRESCENT CITY	1612	PDT	MAR	27	
FORT BRAGG	1618	PDT	MAR	27	
MONTEREY	1642	PDT	MAR	27	
SAN FRANCISCO	1706	PDT	MAR	. 27	
PORT SAN LUIS	1707	PDT	MAR	. 27	
SANTA BARBARA	1721	PDT	MAR	. 27	
LOS ANGELES HARB					
NEWPORT BEACH	1739	PDT	MAR	. 27	
LA JOLLA	1748	PDT	MAR	. 27	
OCEANSIDE	1744	PDT	MAR	. 27	
NEXT UPDATE AND	ADDITI	ONAL	INFC	ORMATION	
* THIS MESSAGE WILL BE UPDATED IN 30 MINUTES.					
A DEEDE SO SHE INSERVES CLEE NEW YORK COLLEGE NORE					
* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE					
INFORMATION.					
* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA OREGON					
WASHINGTON BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE					
PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS					
EVENT AT PTWC				TTER MESSAGES FOR INFORMATION ON THIS	
EVENI AI FIWC	.WEAIN	EK.GC			
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				11.82	
					35
				-	



ALASKA

TSUNAMI WATCH IN EFFECT FOR...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON AND BRITISH COLUMBIA FROM THE CALIFORNIA-MEXICO BORDER TO THE NORTH TIP OF VANCOUVER ISLAND BRITISH COLUMBIA

# IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI WATCH AREAS

- \* EXPECTED IMPACT IS UNKNOWN AT THIS TIME.
- \* THE WATCH WILL BE UPGRADED OR CANCELED AT LEAST TWO HOURS BEFORE EXPECTED IMPACT.

RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN A WATCH AREA STAY ALERT FOR FURTHER INSTRUCTIONS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

SITE	FOREC START OF TS		I -		
* ALASKA					
SAND POINT	1213	AKDT	MAR	27	
KODIAK	1228	AKDT	MAR	27	
UNALASKA	1231	AKDT	MAR	27	
SEWARD	1253	AKDT	MAR	27	
COLD BAY	1254	AKDT	MAR	27	
ELFIN COVE	1255	AKDT	MAR	27	
ADAK	1256	AKDT	MAR	27	
YAKUTAT	1303	AKDT	MAR	27	
SITKA	1303	AKDT	MAR	27	

VALDEZ CORDOVA SHEMYA HOMER SAINT PAUL CRAIG	1346 1333		MAR MAR MAR	27 27 27 27
* BRITISH COLUME LANGARA TOFINO	3IA 1413 1540		MAR MAR	
* WASHINGTON NEAH BAY LONG BEACH MOCLIPS WESTPORT PORT ANGELES PORT TOWNSEND	1552 1555 1559 1608 1620 1677	PDT PDT PDT	MAR MAR MAR	27 27 27 27
* OREGON PORT ORFORD CHARLESTON SEASIDE NEWPORT BROOKINGS	1558 1603 1606 1610 1612	PDT PDT	MAR MAR	27 27 27 27
* CALIFORNIA CRESCENT CITY FORT BRAGG MONTEREY SAN FRANCISCO PORT SAN LUIS SANTA BARBARA LOS ANGELES HARB NEWPORT BEACH LA JOLLA OCEANSIDE	1612 1618 1642 1706 1707 1721 1737 1739 1748 1744	PDT PDT PDT PDT PDT PDT	MAR MAR MAR MAR MAR MAR	27 27 27 27 27 27 27 27 27

FORECAST MODELS PROJECT THAT 22 FOOT/6.7 METER WAVES COULD DEVELOP ALONG THE COAST OF ALASKA. WAVES OF THIS SIZE ARE KNOWN TO CAUSE INUNDATION AND DAMAGE TO COASTAL STRUCTURES. IN ALASKA THE TSUNAMI IS EXPECTED TO REACH PEAK SIZE 30 MINUTES TO TWO HOURS AFTER THE EXPECTED ARRIVAL TIME.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

DEEP OCEAN PRESSURE SENSOR DATA INDICATES A TSUNAMI WAS GENERATED.

# PRELIMINARY EARTHQUAKE PARAMETERS - UPDATED

* MAGNITUDE	8.6
* ORIGIN TIME	1050 AKDT MAR 27 2014
	1150 PDT MAR 27 2014
	1850 UTC MAR 27 2014
* COORDINATES	55.2 NORTH 156.7 WEST
* DEPTH	11 MILES
* LOCATION	100 MILES SE OF CHIGNIK ALASKA

485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 30 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

\$\$

#### NTWC Bulletin #3

WEAK51 PAAQ 272003 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 3 NWS WEST COAST/ALASKA TSUNAMI WARNING CENTER PALMER AK 1203 PM AKDT THU MAR 27 2014

THIS MESSAGE INCREASES MAGNITUDE TO 9.1 AND EXPANDS THE WARNING AREA.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI WATCH REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES - UPDATED TSUNAMI WARNING IN EFFECT FOR...

- \* THE COASTAL AREAS OF OREGON WASHINGTON AND BRITISH COLUMBIA FROM THE OREGON-CALIFORNIA BORDER TO THE NORTH TIP OF VANCOUVER ISLAND BRITISH COLUMBIA
- \* THE COASTAL AREAS OF BRITISH COLUMBIA AND ALASKA FROM THE NORTH TIP OF VANCOUVER ISLAND BRITISH COLUMBIA TO ATTU ALASKA

TSUNAMI WATCH IN EFFECT FOR...

\* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO THE OREGON-CALIFORNIA BORDER

IMPACTS FOR TSUNAMI WARNING AREAS

	PACIFEX 14 Handbook				
	ANGEROUS COASTAL FLOODING ACCOMPANI POSSIBLE AND MAY CONTINUE FOR MANY VAL.				
* THE FIRST WA	VE MAY NOT BE THE LARGEST.				
IMPACTS FOR TSU	NAMI WATCH AREAS				
* EXPECTED IMP	ACT IS UNKNOWN AT THIS TIME.				
* THE WATCH WI BEFORE EXPEC	LL BE UPGRADED OR CANCELED AT LEAST TED IMPACT.	TWO HOURS			
RECOMMENDED ACT					
* IF YOU ARE I	N A WARNING AREA - MOVE INLAND TO H	IIGHER GROUND.			
* IF YOU ARE I	N A WATCH AREA - STAY ALERT FOR FUR	THER INSTRUCTIONS.			
* BE ALERT TO	INSTRUCTIONS FROM YOUR LOCAL EMERGE	ENCY OFFICIALS.			
* DO NOT GO TC	THE COAST TO OBSERVE THE TSUNAMI.				
INDICATE IT	N TO THE COAST UNTIL LOCAL EMERGENC IS SAFE TO DO SO. R OBSERVATIONS OF TSUNAMI ACTIVITY	Y OFFICIALS			
SITE	FORECAST FORECAST FORECA START OF TSUNAMI MAX TS OF TSUNAMI DURATION HEIGHT	SUNAMI TSUNAMI P HEIGHT			
SAND POINT KODIAK UNALASKA COLD BAY SEWARD ADAK ELFIN COVE YAKUTAT SITKA VALDEZ	1157       AKDT       MAR       27         1213       AKDT       MAR       27         1215       AKDT       MAR       27         1232       AKDT       MAR       27         1239       AKDT       MAR       27         1240       AKDT       MAR       27         1240       AKDT       MAR       27         1248       AKDT       MAR       27         1248       AKDT       MAR       27         1248       AKDT       MAR       27         1258       AKDT       MAR       27	4.5FT			
CORDOVA SHEMYA HOMER SAINT PAUL	CORDOVA       1308       AKDT       MAR       27         SHEMYA       1323       AKDT       MAR       27         HOMER       1332       AKDT       MAR       27				
CRAIG	1351 AKDT MAR 27				
* BRITISH COLU					
LANGARA TOFINO	1400 PDT MAR 27 1527 PDT MAR 27				
* WASHINGTON					
		40			

NEAH BAY	1540	PDT	MAR	27
LONG BEACH	1538	PDT	MAR	27
MOCLIPS	1541	PDT	MAR	27
WESTPORT	1556	PDT	MAR	27
PORT ANGELES	1610	PDT	MAR	27
PORT TOWNSEND	1637	PDT	MAR	27
* OREGON				
PORT ORFORD	1542	PDT	MAR	27
CHARLESTON	1547	PDT	MAR	27
SEASIDE	1548	PDT	MAR	27
NEWPORT	1552	PDT	MAR	27
BROOKINGS	1554	PDT	MAR	27
* CALIFORNIA				
CRESCENT CITY	1606	PDT	MAR	27
FORT BRAGG	1602	PDT	MAR	27
MONTEREY	1632	PDT	MAR	27
SAN FRANCISCO	1702	PDT	MAR	27
PORT SAN LUIS	1656	PDT	MAR	27
SANTA BARBARA	1718	PDT	MAR	27
TOG ANCETES HADD	1735	ייתם	MAD	27

SANTA BARBARA1718PDTMAR27LOS ANGELES HARB1735PDTMAR27NEWPORTBEACH1733PDTMAR27LAJOLLA1746PDTMAR27OCEANSIDE1738PDTMAR27

FORECAST MODELS PROJECT THAT 22 FOOT/6.7 METER WAVES COULD DEVELOP ALONG THE COAST OF ALASKA. WAVES OF THIS SIZE ARE KNOWN TO CAUSE INUNDATION AND DAMAGE TO COASTAL STRUCTURES. IN ALASKA THE TSUNAMI IS EXPECTED TO REACH PEAK SIZE 30 MINUTES TO TWO HOURS AFTER THE EXPECTED ARRIVAL TIME. A 4.5-FOOT TSUNAMI HAS BEEN REPORTED AT SAND POINT AK.

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

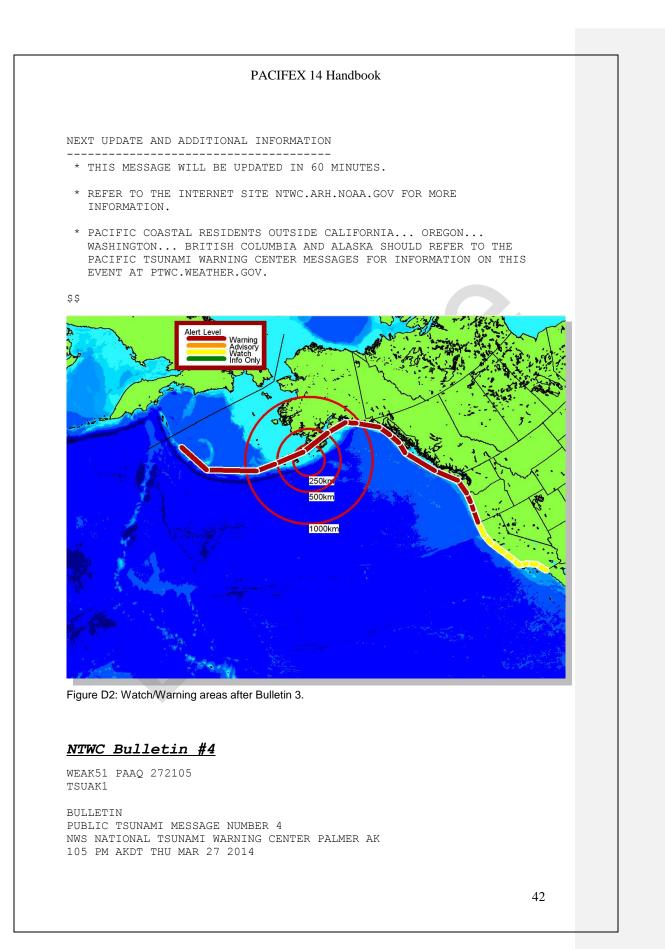
# ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

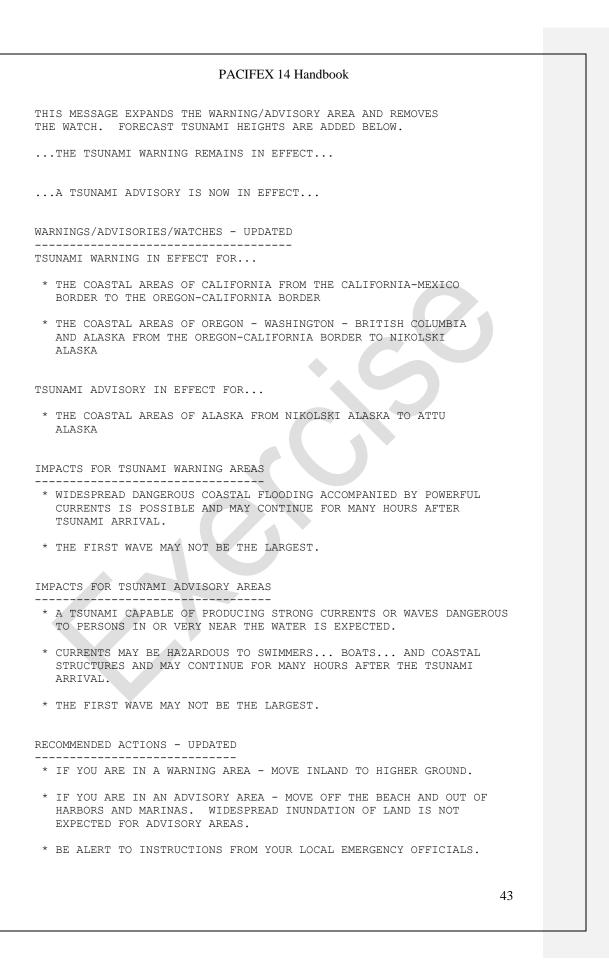
DEEP OCEAN PRESSURE SENSOR DATA INDICATES A TSUNAMI WAS GENERATED.

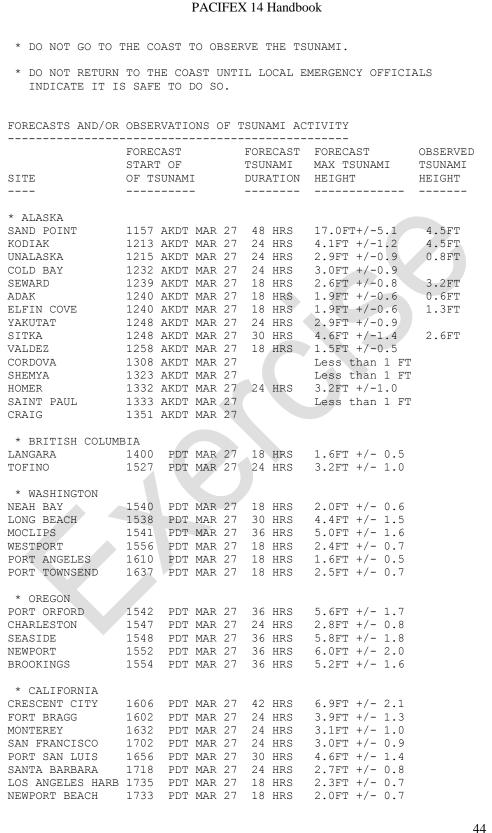
#### PRELIMINARY EARTHQUAKE PARAMETERS - UPDATED

*	MAGNITUDE	9.1		
*	ORIGIN TIME	1050	AKDT MAR 27 2014	
		1150	PDT MAR 27 2014	
		1850	UTC MAR 27 2014	
*	COORDINATES	55.2	NORTH 156.7 WEST	
		11		

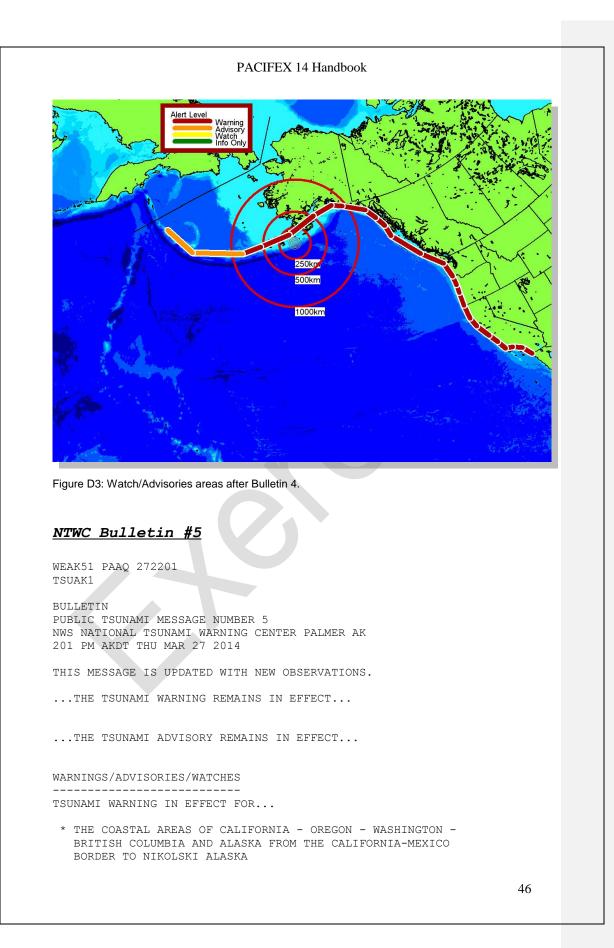
- \* DEPTH 11 MILES
- \* LOCATION 100 MILES SE OF CHIGNIK ALASKA
  - 485 MILES SW OF ANCHORAGE ALASKA







CEANNIE       1738 PDT MAR 27 24 HRS       3,1FT 4/- 1.0         A 4,5-FOOT TSUMAMI, AND CHIGNER AT KODIAK AK. KING COVE AK HAS REPORTED A 1.3-FOOT TSUMAMI, AND CHIGNER AK HAS REPORTED ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	LA JOLLA					
REPORTED A 4.3-FOOT TSUNAMI, AND CHIGNIK AK HAS REPORTED A 21.8-FOOT TSUNAMI. FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL AGOVE THE TIDE. FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVIT. OBSERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. MINING OSSERVENTIONS OF TSUNAMI ACTIVITY - UPDATED MINING SCH AK MINING MAX 2023 UTC 3-27 MINING MAX 2026 UTC 3-27 MINING SCH AK MINING MAX MINING MAX M	OCEANSIDE	1738 PDT MAI	R 27 24 HRS	3.1FT	+/- 1.0	
ABOVE THE TIDE. FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY. OBSERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED TIME OF MEASUREMENT TIME OF MEASUREMENT TSUNAMI HEIGHT IS TIME OF MEASUREMENT TSUNAMI HEIGHT TSUNAMI HEIGHT TIME COVE AR TOTO 2006 UTC 3-27 1.44 FT TIME LEVEL AT THE TIME OF MEASUREMENT. HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. HIGHT 1 OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. HIGHT 1 OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. MAGNITUDE 9.1 * ORIGIT TIME 1050 AKDT MAR 27 2014 150 DTC MAR	REPORTED A 4.3-FO	OT TSUNAMI, A				AK HAS
THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY. DESERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIME OBSERVED AT THE TIME OF MEASUREMENT. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED TIME OBSERVED MAX STE OF MEASUREMENT OBSERVED MAX STE OF MEASUREMENT OBSERVED MAX STE OF MEASUREMENT OBSERVED MAX STENAMI HEIGHT MINOLSKI AK 2023 UTC 3-27 1.43 FT UNALASKA AK 2026 UTC 3-27 1.41 FT UNALASKA AK 2026 UTC 3-27 1.41 FT TIME 026 UTC 3-27 1.44 FT HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. MAGNITUDE 9.1 * AGNITUDE 9.1 * OKIGIN TIME 1050 ADDI MAR 27 2014 1850 UTC MAR 27 2014 1950 UTC MAR 20 UTC MAR 27 2014 1950 UT		AMI HEIGHT IS	S THE HIGHES	ST EXPECT	ED WATER LEVE	Ĺ
THE LEVEL AT THE TIME OF MEASUREMENT. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED TIME OBSERVED MAX STONMAL HEIGHT TIME OF MEASUREMENT OBSERVED MAX STONMAL HEIGHT MING COVE AK 2023 UTC 3-27 4.33 FT MINGLSKI AK 2026 UTC 3-27 1.82 FT MINGLSKI AK 2026 UTC 3-27 1.61 FT UNALASKA AK 2056 UTC 3-27 1.64 FT MINGLSKI AK				-		ІСН
MARK       MARK       MARK         MARK       MARK				ATER LEVE	L ABOVE THE	
SITE         OF MEASUREMENT         TSUMAIL HEIGHT           KING COVE AK         2023 UC 3-27         4.33 FT           KING COVE AK         2026 UC 3-27         1.62 FT           KINGLSKI AK         2056 UC 3-27         1.61 FT           MINGLSKI AK         2056 UC 3-27         1.64 FT           MINGLSKI AK         2056 UC 3-27         1.44 FT           MINGLSKI AK         2050 ADT MAR 27 2014         1.50 EDT MAR 27 2014           150 EDT MAR 27 2014         1.50 EDT MAR 27 2014         1.50 EDT MAR 27 2014           150 UT MAR 25 SU OF ANCHORAGE ALASKA         1.50 MILES SU OF ANCHORAGE ALASKA           MINEL UPDATE AND ADDITIONAL INFORMATION         1.50 MILES SU OF ANCHORAGE ALASKA           MINEL UPDATE AND ADDITIONAL INFORMATION         1.50 MILES SU OF ANCHORAGE ALASKA           MINEL UPDATE AND ADDITIONAL INFORMATION         1.50 MILES SU OF ANCHORAGE ALASKA           MINEL UPDATE AND ADDITIONAL INFORMATION         1.50 MILES SU OF ANCHORAGE ALASKA           MINEL UPDATE AND ADDITIONAL INFORMATION         1.50 MILES SU OF ANCHORAGE ALASKA     <	ADDITIONAL OBSERV.	ATIONS OF TSU	UNAMI ACTIVI	ITY - UPD	ATED	
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<ul> <li>* IF YOU ARE</li> <li>* IF YOU ARE</li> <li>* HARBORS AND EXPECTED FOR</li> <li>* BE ALERT TO</li> <li>* DO NOT GO TO</li> <li>* DO NOT RETURNINDICATE IT</li> <li>FORECASTS AND/O</li> <li>SITE</li> <li>* ALASKA</li> <li>SAND POINT</li> <li>KODIAK</li> <li>UNALASKA</li> </ul>	IN A WARNING AREA - IN AN ADVISORY AREA MARINAS. WIDESPRE. R ADVISORY AREAS. INSTRUCTIONS FROM O THE COAST TO OBSENT RN TO THE COAST UNT IS SAFE TO DO SO. OR OBSERVATIONS OF T FORECAST START OF OF TSUNAMI 	- MOVE OF AD INUNDAT YOUR LOCAL RVE THE TS IL LOCAL E TSUNAMI AC FORECAST TSUNAMI DURATION 	F THE BEACH ANI ION OF LAND IS EMERGENCY OFF: UNAMI. MERGENCY OFFIC: TIVITY  FORECAST MAX TSUNAMI HEIGHT  17.0FT+/-5.1 4.1FT +/-1.2 2.9FT +/-0.9	D OUT OF NOT ICIALS. IALS OBSERVED TSUNAMI HEIGHT  11.6FT 4.5FT 1.4FT
<ul> <li>* IF YOU ARE</li> <li>* IF YOU ARE</li> <li>* HARBORS AND EXPECTED FOR</li> <li>* BE ALERT TO</li> <li>* DO NOT GO TO</li> <li>* DO NOT RETURNINDICATE IT</li> <li>FORECASTS AND/O</li> <li>SITE</li> <li>* ALASKA</li> <li>SAND POINT</li> <li>KODIAK</li> <li>UNALASKA</li> </ul>	IN A WARNING AREA - IN AN ADVISORY AREA MARINAS. WIDESPRE. R ADVISORY AREAS. INSTRUCTIONS FROM O THE COAST TO OBSENT RN TO THE COAST UNT IS SAFE TO DO SO. OR OBSERVATIONS OF T FORECAST START OF OF TSUNAMI 	- MOVE OF AD INUNDAT YOUR LOCAL RVE THE TS IL LOCAL E TSUNAMI AC FORECAST TSUNAMI DURATION 	F THE BEACH ANI ION OF LAND IS EMERGENCY OFF: UNAMI. MERGENCY OFFIC: TIVITY  FORECAST MAX TSUNAMI HEIGHT  17.0FT+/-5.1 4.1FT +/-1.2 2.9FT +/-0.9	D OUT OF NOT ICIALS. IALS OBSERVED TSUNAMI HEIGHT  11.6FT 4.5FT 1.4FT
<ul> <li>* IF YOU ARE</li> <li>* IF YOU ARE</li> <li>* HARBORS AND EXPECTED FOR</li> <li>* BE ALERT TO</li> <li>* DO NOT GO TO</li> <li>* DO NOT RETURNINDICATE IT</li> <li>FORECASTS AND/O</li> <li>SITE</li> <li>* ALASKA</li> <li>SAND POINT</li> <li>KODIAK</li> <li>UNALASKA</li> </ul>	IN A WARNING AREA - IN AN ADVISORY AREA MARINAS. WIDESPRE. R ADVISORY AREAS. INSTRUCTIONS FROM O THE COAST TO OBSENT RN TO THE COAST UNT IS SAFE TO DO SO. OR OBSERVATIONS OF T FORECAST START OF OF TSUNAMI 	- MOVE OF AD INUNDAT YOUR LOCAL RVE THE TS IL LOCAL E TSUNAMI AC FORECAST TSUNAMI DURATION 	F THE BEACH ANI ION OF LAND IS EMERGENCY OFF: UNAMI. MERGENCY OFFIC: TIVITY  FORECAST MAX TSUNAMI HEIGHT  17.0FT+/-5.1 4.1FT +/-1.2 2.9FT +/-0.9	D OUT OF NOT ICIALS. IALS OBSERVED TSUNAMI HEIGHT  11.6FT 4.5FT 1.4FT

SITE				OF M	TIM EASU	e Jremen		OBS TSU		HEIGHT
ADDITIONAL OBSER	VATIO	NS OF	TSUI	IMAN						
FIDE LEVEL AT TH	E TIMI	EOFI	MEASU	JREM	ENT	•				
DBSERVED TSUNAMI	HEIGH	HT IS	THE	HIG	HEST	r wate	R LEVEL	ABC	VE TH	E
FORECAST TSUNAMI THE TSUNAMI MAY							_			
ABOVE THE TIDE.	wentri f	лытец;	T TO	1 11 12	UT(	۲ C תוור	DAF BU I B	WA ע	.ц Айт.	L V L
FORECAST MAX TSU										EVET.
DCEANSIDE	1738	PDT	MAR	27	24	HRS	3.1FT	+/-	1.0	
LA JOLLA	1746	PDT	MAR	27	24	HRS	3.5FT	+/-	1.1	
NEWPORT BEACH	1733	PDT	MAR	27	18	HRS	2.0FT	+/-	0.7	
LOS ANGELES HARB										
PORT SAN LUIS SANTA BARBARA	1719	רעץ דעק	MAR	27	3U 21	нк5 нрс	4.6FT 2.7FT	+/ <b>-</b> +/-	⊥.4 ∩ 8	
SAN FRANCISCO	1650	PDT	MAR	27	24	HKS	3.UE"I 4 6 mm	+/- +/	0.9	
10N'I'EREY	1700	PDT	MAR	27	24	HRS	J.⊥FT	+/-	1.0	
FORT BRAGG MONTEREY	1602	PDT	MAR	27	24	HRS	3.9FT	+/-	1.3	
CRESCENT CITY										
* CALIFORNIA										
BROOKINGS	1554	PDT	MAR	27	36	HRS	5.2FT	+/-	1.6	
JEWPORT	1552	PDT	MAR	27	36	HRS	6.0FT	+/-	2.0	
SEASIDE										
CHARLESTON	1547	PDT	MAR	27	24	HRS	5.6FT 2.8FT	+/-	0.8	
	1542	PDT	MAR	27	36	HRS	5.6FT	+/-	1.7	
* OREGON										
OUT TOWINGTIND	1001	LDI	1.11.717	<u> </u>	ΤU	11170	2. JF 1	. / =	5.1	
PORT TOWNSEND										
PORT ANGELES	1610	יע ז דע ק	MVAK	27 27	18	HRG	2.4ri 1 6FT	+/-	0.5	
	1541 1556						5.0FT 2.4FT			
NEAH BAY LONG BEACH							2.0FT			
* WASHINGTON	1 = 1 0	m m	M 7 17	27	10	UDO	2 0.55	± /	0 6	
TOFINO	1527	PDT	MAR	27	24	HRS	3.2FT	+/-	1.0	
LANGARA	1400	PDT	MAR	27	18	HRS	1.6FT	+/-	0.5	
* BRITISH COLUM	BIA									
CRAIG	1351	AKDT	MAR	27			LCOD L	iiaii	т Г.Т	2.8FT
SAINT PAUL	⊥ J J Z Z	AKDT.	MAR	27 27	24	лкэ	3.2FT Less t	''/ <b>-</b> ⊥ han	יי 1 דיד	
HEMYA HOMER										0.311
CORDOVA Shemya	1308	AKD'I'	MAR	27 27			Less t Less t			
JALDEZ	1200	AKD'l'	MAR	27	Tβ	нкѕ	1.5FT Less t	+/-0 har	.ວ 1 ເວ	
							4.6FT			∠.6£"1
	1248						2.9FT		.9	1.7FT
				2 /	10	IIKS	1.911	+/-0	.0	1.3FT
ELFIN COVE	1240	AKDT	MAR	27	18	UDC	1 ۵Շጥ	$\pm / - 0$	G	1 2

PACIFEX 14 Handbook CHIGNIK AK 2026 UTC 3-27 21.82 FT 1.61 FT 2054 UTC 3-27 NTKOLSKT AK UNALASKA AK 2056 UTC 3-27 1.44 FT HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. PRELIMINARY EARTHQUAKE PARAMETERS \* MAGNITUDE 9.1 1050 AKDT MAR 27 2014 \* ORIGIN TIME 1150 PDT MAR 27 2014 1850 UTC MAR 27 2014 \* COORDINATES 55.2 NORTH 156.7 WEST \* DEPTH 11 MILES \* LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA NEXT UPDATE AND ADDITIONAL INFORMATION \_\_\_\_\_ \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES. \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION. \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV. ŚŚ NTWC Bulletin #6 WEAK51 PAAQ 272301 TSUAK1 BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 6 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 301 PM AKDT THU MAR 27 2014 THIS MESSAGE IS UPDATED WITH NEW OBSERVATIONS AND FORECAST DURATIONS. ... THE TSUNAMI WARNING REMAINS IN EFFECT... ... THE TSUNAMI ADVISORY REMAINS IN EFFECT... WARNINGS/ADVISORIES/WATCHES -------TSUNAMI WARNING IN EFFECT FOR ... \* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -

# PACIFEX 14 Handbook BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR... \* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \_\_\_\_\_ \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY \_\_\_\_\_ FORECAST FORECAST FORECAST OBSERVED TSUNAMI MAX TSUNAMI START OF TSUNAMI DURATION HEIGHT SITE OF TSUNAMI HEIGHT \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_ \_\_\_\_\_ \* ALASKA 1157 AKDT MAR 27 48 HRS 17.0FT+/-5.1 11.6FT SAND POINT 1213 AKDT MAR 27 24 HRS 4.1FT +/-1.2 1215 AKDT MAR 27 24 HRS 2.9FT +/-0.9 KODIAK 4.5FT UNALASKA 1.4FT 50

COLD BAY	1030	ייים א ג	млр	27	24	UDC	3 0৮ო	±/_(		
		AKDT				HRS				3.2FT
ADAK	1235	AKDT	MAR	27	18					
ELFIN COVE	1240	AKDT AKDT	MAR	27	18	HRS HRS	1 9FT	+/-0	) 6	1.3FT
YAKUTAT SITKA VALDEZ	1248	AKDT	MAR	27	24	HRS				
SITKA	1248	AKDT	MAR	27	30		4.6FT			
VALDEZ	1258	AKDT	MAR	27	18	HRS	1.5FT	+/-(	).5	0.721
CORDOVA	1308	AKDT	MAR	27	10	11110				0.9FT
SHEMYA	1323	AKDT AKDT	MAR	2.7			Less	than	1 FT	0.3FT
HOMER	1332	AKDT	MAR	27	24	HRS	3.2FT	+/-1	.0	
SAINT PAUL										
CRAIG	1351	AKDT	MAR	27						2.8FT
* BRITISH COLUM	зта									
LANGARA		۳חק	MAR	27	18	HRS	1.6ምጥ	+/-	0.5	
TOFINO	1527	PDT	MAR	27	24	HRS	3.2FT	+/-	1.0	
101110	1927	IDI	1.11.11.(	21	21	111(0	J.211	• /	1.0	
* WASHINGTON										
NEAH BAY	1540	PDT	MAR	27	18	HRS	2 በምጥ	+/-	0 6	
LONG BEACH	1538	PDT	MAR	27	30	HRS	4 4 ምጥ	+/-	1 5	
LONG BEACH MOCLIPS	1541	PDT PDT	MAR	27	36	HRS	5 0 5 7	+/-	1 6	
						HRS				
WESTPORT PORT ANGELES	1610	דעז דירס	MAD	27	10	HRS				
PORT TOWNSEND	1637	ד שם דים ס	MAR	27	18	HRS				
FORT TOWNSEND	1057	FDI	MAIN	21	10	IIKS	2.511	17	0.7	
* OREGON										
PORT ORFORD	15/2	ייתם	млр	27	36	UDC	5 6 5 7	+/-	1 7	/ ዓ፹ጥ
										4.911
CHARLESION	1547	PDI	MAR	27	24	HRS HRS	Z.0F1	+/-	1 0	
NEWPORT										
BROOKINGS	1554	PD.I.	MAR	27	36	HRS	5.2FT	+/-	1.0	
+ CALTEODNIA										
* CALIFORNIA	1606	חתת	MAD	27	12	IIDC	6 0.000	. /	0 1	
CRESCENT CITY FORT BRAGG	1000	PDI	MAR	27	42	HK5 UDQ	0.911	+/-	2.1 1 2	
FORT BRAGG	1602	PDT	MAR	27	24					
MONTEREY	1702	PDT PDT	MAR	27	24	HRS				
SAN FRANCISCO PORT SAN LUIS	1/02	PDT	MAR	27	24	HRS HRS	3.0FT			
SANTA BARBARA						HRS				
LOS ANGELES HARB							2.3FT			
NEWPORT BEACH						HRS				
LA JOLLA					24	HRS	3.5FT	+/-	1.1	
OCEANSIDE	1738	PDT	MAR	27	24	HRS	3.1FT	+/-	1.0	
DODDOLOD MODDLO		~				100				
FORECAST MODELS I										
IN CERTAIN LOCAT										
THIS SIZE ARE KNO										
STRUCTURES. ALO										
SIZE TWO TO THREE		RS AF	I'ER '.	LHE	EXPE	CTED A	ARRIVA.	L TIN	1E AND	VERY SLOWLY
DIMINSH AFTER TH	4'I' •									
	13.V.T		л то							
FORECAST MAX TSU	NAMI I	HEIGH	r is	THF	: HIC	HEST I	SXPECT	ED WA	ATER L	EVEL
ABOVE THE TIDE.										
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FORECAST TSUNAMI										
THE TSUNAMI MAY I	-KODU(	JE DAI	NGER	JUS	CURF	KENTS A	AND WA'	VL A(	, T. T. A. T. J.	1.
										51

OBSERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	-	IME ASURE	MENT	OBSERVED MAX TSUNAMI HEIGHT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
ADAK AK	2142	UTC	3-27	0.86 FT
CRAIG AK	2152	UTC	3-27	2.79 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
PORT ORFORD OR	2252	UTC	3-27	4.92 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT

 $\mbox{HeIGHT}$  - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

*	MAGNITUDE	9.1
*	ORIGIN TIME	1050 AKDT MAR 27 2014
		1150 PDT MAR 27 2014
		1850 UTC MAR 27 2014
*	COORDINATES	55.2 NORTH 156.7 WEST
*	DEPTH	11 MILES
*	LOCATION	100 MILES SE OF CHIGNIK ALASKA
		485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION

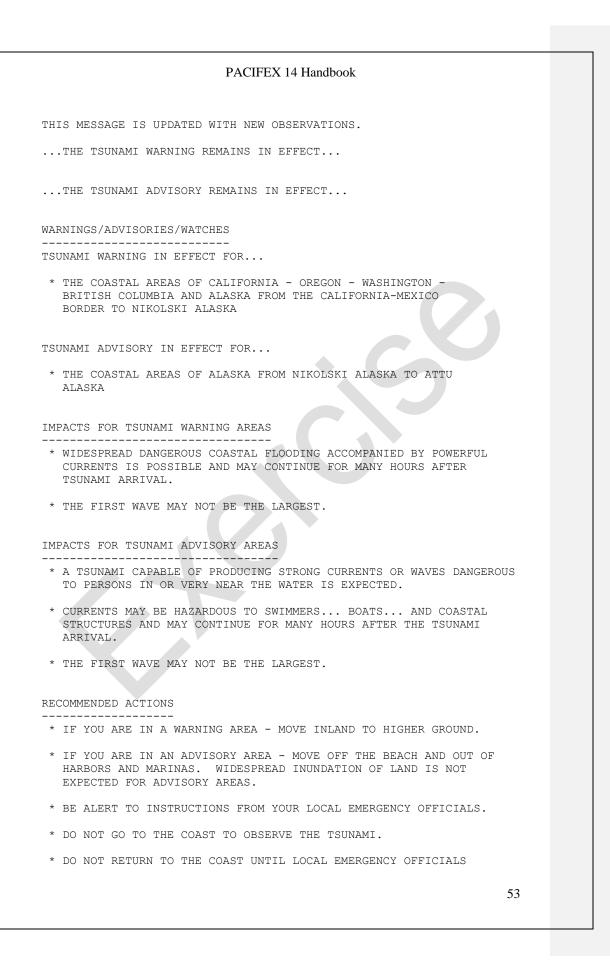
- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #7

WEAK51 PAAQ 280002 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 7 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 402 PM AKDT THU MAR 27 2014



INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

	FOREC							OBSERVED
	STARI							TSUNAMI
SITE	OF TS	SUNAM:	Γ				HEIGHT	HEIGHT
			-					
* ALASKA								
SAND POINT KODIAK	1157	AKDT	MAR	27	48	HRS	17.0FT+/-5.1	11.6FT
KODIAK	1213	AKDT	MAR	27	24	HRS	4.1FT +/-1.2	4.5FT
UNALASKA	1215	AKDT	MAR	27	24	HRS	2.9FT +/-0.9	1.4FT
COLD BAY SEWARD	1232	AKDT	MAR	27	24	HRS	3.0FT +/-0.9	
	1232 1239 1240	AKDT	MAR	27	18	HRS	2.6FT +/-0.8	3.2FT
ADAN	1210	ANDI	1.11/11/	21	τU	HRS		0.9FT
ELFIN COVE YAKUTAT	1240 1248	AKDT	MAR	27	18	HRS	1.9FT +/-0.6	1.3FT
YAKUTAT	1248	AKDT	MAR	27	24	HRS	2.9FT +/-0.9	2.4FT
SITKA	1248	AKDT	MAR	27	30	HRS	4.6FT +/-1.4	3.7FT
VALDEZ	1258	AKDT	MAR	27	18	HRS	1.5FT +/-0.5	
CORDOVA	1308	AKDT	MAR	27		-	Less than 1 FT	0.9FT
SHEMYA	1323	AKDT	MAR	27			Less than 1 FT	0.3FT
	1332					HRS	3.2FT +/-1.0	
SAINT PAUL	1333	AKDT	MAR	27			Less than 1 FT	
	1351							2.8FT
* BRITISH COLUM	<b>л</b> тл							
				27	10	UDC		1 6 12 10
LANGARA	1507	PDI	MAR	27	10	HRS	1.6FT +/- 0.5 3.2FT +/- 1.0	1.011
TOFINO	1927	PDI	MAR	21	24	пкз	5.201 +/- 1.0	2.451
* WASHINGTON								
							2.0FT +/- 0.6	2.0FT
LONG BEACH							4.4FT +/- 1.5	
	1541					HRS	5.0FT +/- 1.6	
							2.4FT +/- 0.7	
PORT ANGELES	1610	PDT	MAR	27	18	HRS	1.6FT +/- 0.5	1.4FT
PORT TOWNSEND	1637	PDT	MAR	27	18	HRS	2.5FT +/- 0.7	
* OREGON								
PORT ORFORD	1542	PDT	MAR	27	36	HRS	5.6FT +/- 1.7	6.8FT
CHARLESTON							2.8FT +/- 0.8	
SEASIDE	1548	PDT	MAR	27	36	HRS	5.8FT +/- 1.8 6.0FT +/- 2.0	
NEWPORT	1552	PDT	MAR	27	36	HRS	6.0FT +/- 2.0	2.5FT
BROOKINGS	1554	PDT	MAR	27	36	HRS	5.2FT +/- 1.6	
* CALIFORNIA								
CRESCENT CITY	1606	PDT	MAR	27	42	HRS	6.9FT +/- 2.1	5.9FT
FORT BRAGG	1602					HRS	3.9FT +/- 1.3	0.911
MONTEREY	1632		MAR			HRS	3.1FT + - 1.0	4.0FT
SAN FRANCISCO	1702		MAR			HRS	3.0FT +/- 0.9	2.4FT
PORT SAN LUIS	1656		MAR			HRS	4.6FT +/- 1.4	
SANTA BARBARA	1718		MAR			HRS	2.7FT + - 0.8	
LOS ANGELES HARB			MAR			HRS	2.3FT + - 0.7	
NEWPORT BEACH	1733		MAR			HRS	2.0FT + - 0.7	
LA JOLLA	1746		MAR			HRS	3.5FT + / - 1.1	
OCEANSIDE	1738		MAR			HRS	3.1FT + - 1.0	
OCTURIO T DE	T/20	EDI	MAK	۷ ک	24	111/9	J.ILI F/- I.U	

FORECAST MODELS PROJECT TSUNAMIS UP TO 12.0-FOOT HEIGHT COULD DEVELOP IN CERTAIN LOCATIONS ALONG THE US AND CANADIAN WEST COASTS. WAVES OF THIS SIZE ARE KNOWN TO CAUSE INUNDATION AND DAMAGE TO COASTAL STRUCTURES. ALONG THE WEST COAST TSUNAMIS ARE EXPECTED TO REACH PEAK SIZE TWO TO THREE HOURS AFTER THE EXPECTED ARRIVAL TIME AND VERY SLOWLY DIMINSH AFTER THAT.

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	T Of Me	IME ASURE	MENT	OBSERVED MAX TSUNAMI HEIGHT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT
PORT ORFORD OR	2355	UTC	3-27	6.76 FT
NEWPORT OR	2309	UTC	3-27	2.46 FT
ARENA COVE CA	2313	UTC	3-27	5.58 FT
EUREKA CA	2314	UTC	3-27	2.76 FT
POINT REYES CA	2344	UTC	3-27	3.15 FT
MONTEREY CA	2338	UTC	3-27	3.97 FT
MIDWAY IS	2304	UTC	3-27	1.44 FT
NAWILIWILI HI	2323	UTC	3-27	2.20 FT
HALEIWA HI	2338	UTC	3-27	4.99 FT
HONOLULU HI	2338	UTC	3-27	2.23 FT
KAHULUI HI	2341	UTC	3-27	7.15 FT
KAWAIHAE HI	2347	UTC	3-27	1.74 FT

PRELIMINARY EARTHQUAKE PARAMETERS

*	MAGNITUDE	9.1
*	ORIGIN TIME	1050 AKDT MAR 27 2014
		1150 PDT MAR 27 2014
		1850 UTC MAR 27 2014
*	COORDINATES	55.2 NORTH 156.7 WEST
*	DEPTH	11 MILES
*	LOCATION	100 MILES SE OF CHIGNIK ALASKA

485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #8

WEAK51 PAAQ 280101 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 8 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 501 PM AKDT THU MAR 27 2014

THIS MESSAGE IS UPDATED WITH NEW OBSERVATIONS.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

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TSUNAMI WARNING IN EFFECT FOR ...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

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- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

# RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

	FORECAST		FORECAST	FORECAST	OBSERVED
	START OF		TSUNAMI	MAX TSUNAMI	TSUNAMI
SITE	OF TSUNAM	II	DURATION	HEIGHT	HEIGHT
		-			
* ALASKA					
SAND POINT	1157 AKD1	MAR 27	48 HRS	17.0FT+/-5.1	11.6FT
KODIAK	1213 AKD1	MAR 27	24 HRS	4.1FT +/-1.2	4.5FT
UNALASKA	1215 AKD1	MAR 27	24 HRS	2.9FT +/-0.9	1.4FT
COLD BAY	1232 AKD1	' MAR 27	24 HRS	3.0FT +/-0.9	
SEWARD	1239 AKD1	MAR 27	18 HRS	2.6FT +/-0.8	4.1FT
ADAK	1240 AKD1	MAR 27	18 HRS	1.9FT +/-0.6	1.0FT
ELFIN COVE	1240 AKD1	MAR 27	18 HRS	1.9FT +/-0.6	1.3FT
YAKUTAT	1248 AKD1	MAR 27	24 HRS	2.9FT +/-0.9	2.4FT
SITKA	1248 AKD1	MAR 27	30 HRS	4.6FT +/-1.4	3.7FT
VALDEZ	1258 AKD1	MAR 27	18 HRS	1.5FT +/-0.5	
CORDOVA	1308 AKD1	MAR 27	,	Less than 1 FT	0.9FT
SHEMYA	1323 AKD1	MAR 27	,	Less than 1 FT	0.3FT
HOMER	1332 AKD1	' MAR 27	24 HRS	3.2FT +/-1.0	
SAINT PAUL	1333 AKD1	MAR 27	,	Less than 1 FT	
CRAIG	1351 AKDI	MAR 27	,		3.9FT
* BRITISH COLUM	IBIA				
LANGARA	1400 PD1	MAR 27	18 HRS	1.6FT +/- 0.5	1.6FT
TOFINO	1527 PD1	' MAR 27	24 HRS	3.2FT +/- 1.0	2.4FT
* WASHINGTON					
NEAH BAY	1540 PD1	' MAR 27	18 HRS	2.0FT +/- 0.6	2.0FT
LONG BEACH	1538 PD1	' MAR 27	30 HRS	4.4FT +/- 1.5	

MOCLIPS WESTPORT PORT ANGELES PORT TOWNSEND	1541 1556 1610 1637	PDT MAR 27 PDT MAR 27 PDT MAR 27 PDT MAR 27	36 HRS 18 HRS 18 HRS 18 HRS	5.0FT +/- 1.6 2.4FT +/- 0.7 1.6FT +/- 0.5 2.5FT +/- 0.7	2.1FT 1.4FT
* OREGON	4 5 4 0		0.0		c
PORT ORFORD	1542	pdt mar 27	36 HRS	5.6FT +/- 1.7	6.8FT
CHARLESTON	1547	pdt mar 27	24 HRS	2.8FT +/- 0.8	2.7FT
SEASIDE	1548	PDT MAR 27	36 HRS	5.8FT +/- 1.8	
NEWPORT	1552	PDT MAR 27	36 HRS	6.0FT +/- 2.0	2.5FT
BROOKINGS	1554	PDT MAR 27	36 HRS	5.2FT +/- 1.6	
* CALIFORNIA CRESCENT CITY FORT BRAGG MONTEREY	1606 1602 1632	PDT MAR 27 PDT MAR 27 PDT MAR 27	42 HRS 24 HRS 24 HRS	6.9FT +/- 2.1 3.9FT +/- 1.3 3.1FT +/- 1.0	6.7FT 4.0FT
SAN FRANCISCO	1702	PDT MAR 27	24 HRS	3.0FT +/- 0.9	3.4FT
PORT SAN LUIS	1656	PDT MAR 27	30 HRS	4.6FT + - 1.4	5.6FT
SANTA BARBARA	1718	PDT MAR 27	24 HRS	2.7FT + / - 0.8	1.9FT
LOS ANGELES HARB	1735	PDT MAR 27	18 HRS	2.3FT + - 0.7	1.2FT
		191 1910 67			1.261
NEWPORT BEACH	1733	PDT MAR 27	10 11110	2.0FT + - 0.7	
la jolla	1746	PDT MAR 27	24 HRS	3.5FT +/- 1.1	
OCEANSIDE	1738	pdt mar 27	24 HRS	3.1FT +/- 1.0	

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TI OF MEA	ME SUREM	IENT	OBSERVED MAX TSUNAMI HEIGHT
KING COVE AK			3-27	4.33 FT
CHIGNIK AK		UTC		21.82 FT
NIKOLSKI AK			3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT
PORT ORFORD OR	2355	UTC	3-27	6.76 FT
NEWPORT OR	2309	UTC	3-27	2.46 FT
ARENA COVE CA	2313	UTC	3-27	5.58 FT
EUREKA CA	0006	UTC	3-28	4.23 FT
POINT REYES CA	2344	UTC	3-27	3.15 FT
ALAMEDA CA	0029	UTC	3-28	1.12 FT
MONTEREY CA	2338	UTC	3-27	3.97 FT
PORT SAN LUIS CA	0022	UTC	3-28	5.58 FT
SANTA MONICA CA	0044	UTC	3-28	2.43 FT
MIDWAY IS	2304	UTC	3-27	1.44 FT
NAWILIWILI HI	2323	UTC	3-27	2.20 FT

HALEIWA HI	2338 1	UTC 3-27	4.99 FT
HONOLULU HI	2338 1	UTC 3-27	2.23 FT
KAHULUI HI	2341 1	UTC 3-27	7.15 FT
KAWAIHAE HI	0014 1	UTC 3-28	2.89 FT
WAKE ISLAND	0052 1	UTC 3-28	0.33 FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

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~	MAGNIIC	JDE	9.1					
*	ORIGIN	TIME	1050	AKDT	MAR	27	2014	
			1150	PDT	MAR	27	2014	
			1850	UTC	MAR	27	2014	
*	COORDIN	JATES	55.2	NORTH	H 150	5.7	WEST	

*	COORDINATES	55.2	NORTH

- \* DEPTH 11 MILES
- 100 MILES SE OF CHIGNIK ALASKA \* LOCATION
- 485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION

\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.

- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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### NTWC Bulletin #9

WEAK51 PAAQ 280201 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 9 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 601 PM AKDT THU MAR 27 2014

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES - UPDATED \_\_\_\_\_ TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO

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TSUNAMI ADVISC	DRY IN EFFECT FOR			
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IMPACTS FOR TS	SUNAMI WARNING AREAS	5		
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* THE FIRST W	NAVE MAY NOT BE THE	LARGEST.		2
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STRUCTURES ARRIVAL. * THE FIRST W RECOMMENDED AC * IF YOU ARE HARBORS ANI EXPECTED FC * BE ALERT TC * DO NOT GO T * DO NOT RETU INDICATE IT FORECASTS AND/ SITE  * ALASKA SAND POINT KODIAK UNALASKA	AVE MAY NOT BE THE CTIONS IN A WARNING AREA - IN AN ADVISORY AREA MARINAS. WIDESPRE OR ADVISORY AREAS. O INSTRUCTIONS FROM TO THE COAST TO OBSE URN TO THE COAST UNT C IS SAFE TO DO SO. OR OBSERVATIONS OF FORECAST START OF OF TSUNAMI	LARGEST. - MOVE INLA A - MOVE OF EAD INUNDAT YOUR LOCAL ERVE THE TS TIL LOCAL E TSUNAMI AC FORECAST TSUNAMI DURATION 	AND TO HIGHER GE OF THE BEACH AND CION OF LAND IS CEMERGENCY OFF SUNAMI. CMERGENCY OFFIC CTIVITY FORECAST MAX TSUNAMI HEIGHT  17.0FT+/-5.1 4.1FT +/-1.2 2.9FT +/-0.9	ROUND. D OUT OF NOT ICIALS. IALS OBSERVED TSUNAMI HEIGHT  11.6FT 4.5FT 1.4FT

ADAK 1240 AKDT MAR 27 18 HRS 1.9FT +/-0.6 1. ELFIN COVE 1240 AKDT MAR 27 18 HRS 1.9FT +/-0.6 1. YAKUTAT 1248 AKDT MAR 27 24 HRS 2.9FT +/-0.9 2. SITKA 1248 AKDT MAR 27 24 HRS 2.9FT +/-0.9 2. SITKA 1248 AKDT MAR 27 18 HRS 1.5FT +/-0.5 CORDOVA 1308 AKDT MAR 27 18 HRS 1.5FT +/-0.5 CORDOVA 1308 AKDT MAR 27 Less than 1 FT 0. SHEMYA 1323 AKDT MAR 27 Less than 1 FT 0. SAINT PAUL 1333 AKDT MAR 27 Less than 1 FT 0. SAINT PAUL 1333 AKDT MAR 27 Less than 1 FT 0. SAINT PAUL 1333 AKDT MAR 27 Less than 1 FT 0. SAINT PAUL 1333 AKDT MAR 27 Less than 1 FT 0. ANGRA 1400 PDT MAR 27 18 HRS 1.6FT +/- 0.5 1. TOFINO 1527 PDT MAR 27 18 HRS 1.6FT +/- 0.6 2. LONG BEACH 1538 PDT MAR 27 30 HRS 4.4FT +/- 1.6 WESTPORT 1556 PDT MAR 27 18 HRS 2.0FT +/- 1.6 WESTPORT 1556 PDT MAR 27 18 HRS 2.4FT +/- 0.7 2. PORT ANGELES 1610 PDT MAR 27 18 HRS 2.4FT +/- 0.5 1. PORT ANGELES 1610 PDT MAR 27 18 HRS 2.5FT +/- 0.6 2. CHARLESTON 1547 PDT MAR 27 18 HRS 1.6FT +/- 0.5 1. PORT TOWNSEND 1637 PDT MAR 27 18 HRS 2.5FT +/- 0.7 2. PORT ANGELES 1610 PDT MAR 27 18 HRS 2.5FT +/- 0.7 2. PORT ORFORD 1542 PDT MAR 27 36 HRS 5.6FT +/- 1.7 6. CHARLESTON 1547 PDT MAR 27 36 HRS 5.8FT +/- 1.8 NEWPORT 1552 PDT MAR 27 36 HRS 5.8FT +/- 1.8 NEWPORT 1552 PDT MAR 27 36 HRS 5.2FT +/- 0.8 2. BROCKINGS 1554 PDT MAR 27 42 HRS 3.9FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 42 HRS 3.9FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 42 HRS 3.9FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 42 HRS 3.9FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 42 HRS 3.9FT +/- 1.0 AN FRANCISCO 1702 PDT MAR 27 44 HRS 3.9FT +/- 1.0 AN FRANCISCO 1702 PDT MAR 27 44 HRS 3.9FT +/- 1.0 AN FRANCISCO 1702 PDT MAR 27 44 HRS 3.0FT +/- 0.9 3. PORT SAN LUIS 1656 PDT MAR 27 44 HRS 3.0FT +/- 0.9 3. PORT SAN LUIS 1656 PDT MAR 27 44 HRS 2.3FT +/- 1.4 SANTA BARBARA 1718 PDT MAR 27 24 HRS 2.0FT +/- 0.7 1. NEWPORT BEACH 1733 PDT MAR 27 18 HRS 2.0FT +/- 0.7 1. NEWPORT BEACH 1733 PDT MAR 27 18 HRS 2.0FT +/- 0.7 1. NEWPORT BEACH 1733 PDT MAR 27 18 HRS 2.0	
ELFIN COVE       1240 AKDT MAR 27       18 HRS       1.9FT +/-0.6       1.         VARUTAT       1248 AKDT MAR 27       30 HRS       4.6FT +/-1.4       3.         VALDEZ       1258 AKDT MAR 27       18 HRS       1.5FT +/-0.5       2.         SITKA       1248 AKDT MAR 27       Less than 1 FT 0.       5.         SHEMYA       1323 AKDT MAR 27       Less than 1 FT 0.         SHEMYA       1323 AKDT MAR 27       Less than 1 FT       0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT       0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT       0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT       0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT       0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT       0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT       0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT       0.         SAINT PAUL       1333 AKDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         CALGON       1627 PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         LONG BEACH       1538 PDT MAR 27       18 HRS	l.1FT
YAKUTAT       1248 AKDT MAR 27       24 HKS       2.9FT +/-0.5       2.         VALDEZ       1258 AKDT MAR 27       18 HKS       1.5FT +/-0.5       2.         CORDOVA       1308 AKDT MAR 27       Less than 1 FT 0.       5.         SEMEMIA       1323 AKDT MAR 27       Less than 1 FT 0.       5.         SHEMYA       1323 AKDT MAR 27       Less than 1 FT 0.       5.         SHEMYA       1333 AKDT MAR 27       Less than 1 FT 0.       5.         CRAIG       1351 AKDT MAR 27       24 HKS       3.2FT +/-1.0       5.         SAINT PAUL       1333 AKDT MAR 27       18 HKS       1.6FT +/- 0.5       1.         CORDON       1527 PDT MAR 27       18 HKS       1.6FT +/- 0.6       2.         LONG BEACH       1538 PDT MAR 27       30 HKS       4.4FT +/- 1.5         MCSTPORT       1556 PDT MAR 27       18 HKS       1.6FT +/- 0.7       2.         FORT ANGELES       1610 PDT MAR 27       18 HKS       1.6FT +/- 0.7       2.         FORT ONNSEND       1637 PDT MAR 27       36 HKS       5.8FT +/- 1.7       6.         CHARLESTON       1542 PDT MAR 27       36 HKS       5.8FT +/- 1.6       7         * OREGON       FORT ORFORD       1542 PDT MAR 27       36 HKS	UFI 2500
SITKA       1248 AKDT MAR 27       30 HRS       4.6FT +/-1.4       3.         VALDEZ       1258 AKDT MAR 27       18 HRS       1.5FT +/-0.5       C         CORDOVA       1308 AKDT MAR 27       Less than 1 FT 0.         HOMER       1323 AKDT MAR 27       Less than 1 FT 0.         SAINT FAUL       1333 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIGN       SANTAPAL       130 HRS       1.6FT +/-1.0         WASHINGTON       NEASH BAY       1540 PDT MAR 27       18 HRS       1.6FT +/- 0.6         NCLIPS       1541 PDT MAR 27       18 HRS       2.6FT +/- 1.6       1.6FT +/- 0.7         FORT ORFORD       1542 PDT MAR 27       18 HRS       2.6FT +/- 1.7       6.         CHARLES	
VALDEZ       1258 AKDT MAR 27       18 HRS       1.5FT +/-0.5         CORDOVA       1308 AKDT MAR 27       Less than 1 FT 0.         SHEMYA       1323 AKDT MAR 27       Less than 1 FT 0.         HOMER       1332 AKDT MAR 27       Less than 1 FT 0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       Less than 1 FT 0.         CRAIG       1351 AKDT MAR 27       24 HRS       3.2FT +/-1.0         CRAIG       1351 AKDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         CORDON       1527 PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         LONG BEACH       1538 PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         CORT ANGELES       1610 PDT MAR 27       18 HRS       2.4FT +/- 0.7       2.         PORT ANGELES       1610 PDT MAR 27       18 HRS       2.4FT +/- 0.7       2.         FORT ONNSEND       1637 PDT MAR 27       18 HRS       2.8FT +/- 0.7       4.         PORT ONFORD       1542 PDT MAR 27       36 HRS       5.8FT +/- 1.6       6.         * CARLFORNIA       CRASCENT CITY       1606 PDT MAR 27       42 HRS       3.9FT +/- 1.6       7.         * CALIFORNIA       CRASCENT CITY	
CORDOVA       1308 AKDT MAR 27       Less than 1 FT 0.         SHEMYA       1323 AKDT MAR 27       Less than 1 FT 0.         OHMER       1332 AKDT MAR 27       Less than 1 FT 0.         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT         CRAIG       1351 AKDT MAR 27       Less than 1 FT         SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT         CRAIG       1351 AKDT MAR 27       18 HRS       1.6FT +/- 0.5         * BRITISH COLUMBIA       LANGARA       1400 PDT MAR 27       18 HRS       1.2FT +/- 1.0         LANGARA       1400 PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         * WASHINGTON       NEAH BAY       1540 PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         MOCLIPS       1541 PDT MAR 27       18 HRS       2.4FT +/- 1.6       2.         PORT ANGELES       1610 PDT MAR 27       18 HRS       2.6FT +/- 0.7       2.         PORT TOWNSEND       1637 PDT MAR 27       36 HRS       5.6FT +/- 1.6       2.         EGGON       *       OPCT ORTORD       1542 PDT MAR 27       36 HRS       5.0FT +/- 0.8       2.         SEASIDE       1549 PDT MAR 27       36 HRS       5.2FT +/- 1.6       *       CALIFORNIA       CRESCENT CITY 1606	3.7FT
SHEMYA       1323 AKDT MAR 27       Less than 1 FT 0.         HOMER       1322 AKDT MAR 27       24 HRS       3.2FT +/-1.0         SAINT FAUL       1333 AKDT MAR 27       Less than 1 FT       7.         CRAIG       1351 AKDT MAR 27       Less than 1 FT       7.         * BRITISH COLUMBIA       LANGARA       1400 PDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         TOFINO       1527 PDT MAR 27       18 HRS       2.0FT +/- 1.0       2.         * WASHINGTON       NEAH BAY       1540 PDT MAR 27       18 HRS       2.0FT +/- 1.6       2.         LONG BEACH       1538 PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         PORT ANGELES       1610 PDT MAR 27       18 HRS       2.0FT +/- 0.7       2.         PORT ORFORD       1542 PDT MAR 27       36 HRS       5.6FT +/- 1.7       6.         CHARLESTON       1547 PDT MAR 27       36 HRS       5.8FT +/- 1.8       2.         SEASIDE       1548 PDT MAR 27       36 HRS       5.0FT +/- 2.0       2.         BROOKINGS       1554 PDT MAR 27       46 HRS       5.2FT +/- 1.6       7.         CRESCINC TITY       1606 PDT MAR 27       42 HRS       3.9FT +/- 1.0       7.         FORT BRAGG       1602 PDT MA	0.000
HOMER       1332       AKDT MAR 27       24 HRS       3.2FT +/-1.0         SAINT PAUL       1333       AKDT MAR 27       Less than 1 FT         CRAIG       1351       AKDT MAR 27       .         * BRITISH COLUMBIA       LANGARA       1400       PDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         IOFINO       1527       PDT MAR 27       18 HRS       1.6FT +/- 0.6       2.         * WASHINGTON       NEAH BAY       1540       PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         MOCLIPS       1541       PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         ORG BEACH       1536       PDT MAR 27       18 HRS       2.0FT +/- 0.7       2.         PORT ANGELES       1610       PDT MAR 27       18 HRS       2.5FT +/- 0.7       2.         PORT ORFORD       1542       PDT MAR 27       36 HRS       5.6FT +/- 1.7       6.         CHARLESTON       1547       PDT MAR 27       36 HRS       5.0FT +/- 0.7       2.         * OREGON       FORT ARGE 1602       PDT MAR 27       36 HRS       5.2FT +/- 0.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       5.2FT +/- 1.6       2.	
SAINT PAUL       1333 AKDT MAR 27       Less than 1 FT         CRAIG       1351 AKDT MAR 27       Jess than 1 FT         CRAIG       1351 AKDT MAR 27       Jess than 1 FT         * BRITISH COLUMBIA       Jangara       1400 PDT MAR 27 18 HRS       1.6FT +/- 0.5       1.         LANGARA       1400 PDT MAR 27 18 HRS       2.0FT +/- 0.6       2.         * WASHINGTON       VEAH BAY       1540 PDT MAR 27 30 HRS       4.4FT +/- 1.5       MOCLIPS         MOCLIPS       1511 PDT MAR 27 36 HRS       2.0FT +/- 0.7       2.         PORT ANGELES       1610 PDT MAR 27 18 HRS       2.6FT +/- 0.5       1.         PORT TOWNSEND       1637 PDT MAR 27 18 HRS       2.6FT +/- 0.7       2.         PORT ORFORD       1542 PDT MAR 27 36 HRS       5.6FT +/- 1.7       6.         CHARLESTON       1547 PDT MAR 27 36 HRS       5.8FT +/- 0.8       2.         SEASIDE       1548 PDT MAR 27 36 HRS       5.2FT +/- 1.8       NEWPORT       1552 PDT MAR 27 42 HRS       3.9FT +/- 1.0       4.         SEOKINGS       1554 PDT MAR 27 42 HRS       3.9FT +/- 1.3       4.       4.       4.         SAN FRANCISCO       1702 PDT MAR 27 42 HRS       3.9FT +/- 1.3       4.       5.         SAN FRANCISCO       1702 PDT MAR 27 24 HRS       3.0	).3E"I
CRAIG       1351 AKDT MAR 27       3.         * BRITISH COLUMBIA LANGARA       1400       PDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         NOFINO       1527       PDT MAR 27       18 HRS       3.2FT +/- 1.0       2.         * WASHINGTON       NEAH BAY       1540       PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         LONG BEACH       1538       PDT MAR 27       30 HRS       5.0FT +/- 1.6       2.         MCCLIPS       1541       PDT MAR 27       18 HRS       2.4FT +/- 0.7       2.         PORT ANGELES       1610       PDT MAR 27       18 HRS       1.6FT +/- 0.7       2.         PORT ORFORD       1542       PDT MAR 27       18 HRS       2.6FT +/- 0.7       1.         PORT ORFORD       1542       PDT MAR 27       36 HRS       5.6FT +/- 1.7       6.         SEASIDE       1548       PDT MAR 27       36 HRS       5.8FT +/- 1.8       2.       2.         SEWORT       1552       PDT MAR 27       36 HRS       5.2FT +/- 1.6       .       7.         * CALIFORNIA       CRESCENT CITY       1606       PDT MAR 27       24 HRS       3.0FT +/- 2.0       2.         SENAT BARBARA       118       PDT MAR 27	
* BRITISH COLUMBIA LANGARA 1400 PDT MAR 27 18 HRS 1.6FT +/- 0.5 1. TOFINO 1527 PDT MAR 27 24 HRS 3.2FT +/- 1.0 2. * WASHINGTON NEAH BAY 1540 PDT MAR 27 18 HRS 2.0FT +/- 0.6 2. LONG BEACH 1538 PDT MAR 27 30 HRS 4.4FT +/- 1.5 WOCLIPS 1541 PDT MAR 27 36 HRS 5.0FT +/- 1.6 WESTPORT 1556 PDT MAR 27 18 HRS 2.4FT +/- 0.7 2. PORT ANGELES 1610 PDT MAR 27 18 HRS 2.4FT +/- 0.5 1. PORT TOWNSEND 1637 PDT MAR 27 18 HRS 2.5FT +/- 0.7 * OREGON PORT OFFORD 1542 PDT MAR 27 36 HRS 5.6FT +/- 1.7 6. CHARLESTON 1547 PDT MAR 27 36 HRS 5.6FT +/- 1.8 2. SEASIDE 1548 PDT MAR 27 36 HRS 5.8FT +/- 1.8 2. SEASIDE 1548 PDT MAR 27 36 HRS 5.8FT +/- 1.8 2. SEASIDE 1548 PDT MAR 27 36 HRS 5.2FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 42 HRS 6.9FT +/- 2.1 7. FORT BRAGG 1602 PDT MAR 27 42 HRS 3.9FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 42 HRS 3.0FT +/- 0.9 3. PORT SAN LUIS 1656 PDT MAR 27 14 HRS 3.0FT +/- 0.9 3. PORT SAN LUIS 1656 PDT MAR 27 18 HRS 2.3FT +/- 0.7 1. LOS ANGELES HARB 1735 PDT MAR 27 18 HRS 2.0FT +/- 0.7 1. LOS ANGELES HARB 1735 PDT MAR 27 18 HRS 2.0FT +/- 0.7 1. LOS ANGELES HARB 1735 PDT MAR 27 24 HRS 3.1FT +/- 1.0 FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEN ADULA 1746 PDT MAR 27 24 HRS 3.1FT +/- 1.0 FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEN ABOVE THE TIDE. FORECAST TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED TORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.	
LANGARA       1400       PDT       MAR       27       18       HRS       1.6FT       +/-       0.5       1.         NOFINO       1527       PDT       MAR       27       24       HRS       3.2FT       +/-       1.0       2.         *       WASHINGTON       NEAH       BAY       1540       PDT       MAR       27       18       HRS       2.0FT       +/-       0.6       2.         LONG BEACH       1538       PDT       MAR       27       18       HRS       2.0FT       +/-       0.6       2.         CONG BEACH       1538       PDT       MAR       27       18       HRS       2.0FT       +/-       0.7       2.         CORT ANGELES       1610       PDT       MAR       27       18       HRS       2.6FT       +/-       0.7       2.         CORT ORFORD       1542       PDT       MAR       27       36       HRS       5.6FT       +/-       1.6       2.         SEASIDE       1547       PDT       MAR       27       36       HRS       5.2FT       +/-       1.6         *       CALIFORNIA       S       SESCENT       1554       P	3.9FT
NOFINO       1527       PDT MAR 27       24 HRS       3.2FT +/- 1.0       2.         * WASHINGTON         NEAH BAY       1540       PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         JONG BEACH       1538       PDT MAR 27       30 HRS       4.4FT +/- 1.5         JONG BEACH       1538       PDT MAR 27       18 HRS       2.0FT +/- 0.7       2.         VESTPORT       1556       PDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         VESTPORT       1637       PDT MAR 27       18 HRS       2.6FT +/- 0.7       2.         VERGON       1637       PDT MAR 27       24 HRS       2.8FT +/- 0.7       2.         * OREGON       1542       PDT MAR 27       26 HRS       5.6FT +/- 1.7       6.         VEHARLESTON       1547       PDT MAR 27       26 HRS       5.8FT +/- 1.8       2.         VEWPORT       1552       PDT MAR 27       36 HRS       6.0FT +/- 2.0       2.         SROKINGS       1554       PDT MAR 27       24 HRS       3.9FT +/- 1.6       4.         * CALIFORNIA       2       2       PDT MAR 27       24 HRS       3.9FT +/- 0.8       1.         ORT BAGG       1602       PDT MAR 27	
* WASHINGTON NEAH BAY 1540 PDT MAR 27 18 HRS 2.0FT +/- 0.6 2. LONG BEACH 1538 PDT MAR 27 30 HRS 4.4FT +/- 1.5 MOCLIPS 1541 PDT MAR 27 36 HRS 5.0FT +/- 1.6 WESTPORT 1556 PDT MAR 27 18 HRS 2.4FT +/- 0.7 2. PORT ANGELES 1610 PDT MAR 27 18 HRS 2.4FT +/- 0.7 2. PORT TOWNSEND 1637 PDT MAR 27 18 HRS 2.5FT +/- 0.7 * OREGON PORT ORFORD 1542 PDT MAR 27 36 HRS 5.6FT +/- 1.7 6. CHARLESTON 1547 PDT MAR 27 36 HRS 5.8FT +/- 1.8 VEWPORT 1552 PDT MAR 27 36 HRS 5.0FT +/- 2.0 2. BROOKINGS 1554 PDT MAR 27 36 HRS 5.2FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 36 HRS 5.2FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 42 HRS 3.9FT +/- 1.3 MONTEREY 1632 PDT MAR 27 24 HRS 3.9FT +/- 1.3 MONTEREY 1632 PDT MAR 27 24 HRS 3.0FT +/- 0.9 3. PORT SAN LUIS 1656 PDT MAR 27 30 HRS 4.6FT +/- 1.4 5. SANT FANCISCO 1702 PDT MAR 27 18 HRS 2.3FT +/- 0.7 1. NEWPORT BEACH 1733 PDT MAR 27 18 HRS 2.3FT +/- 0.7 1. NEWPORT BEACH 1738 PDT MAR 27 24 HRS 3.5FT +/- 0.7 1. NEWPORT BEACH 1738 PDT MAR 27 24 HRS 3.5FT +/- 1.1 4. COS ANGELES HARB 1735 PDT MAR 27 18 HRS 2.3FT +/- 0.7 1. NEWPORT BEACH 1738 PDT MAR 27 24 HRS 3.5FT +/- 1.1 4. DOCEANSIDE 1738 PDT MAR 27 24 HRS 3.5FT +/- 1.1 1. DOCEANSIDE 1738 PDT MAR 27 24 HRS 3.5FT +/- 1.1 1. PORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVE ABOVE THE TIDE. FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WH FHE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY. DESERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE FIDE LEVEL AT THE TIME OF MEASUREMENT. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED	
NEAH BAY       1540       PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         LONG BEACH       1538       PDT MAR 27       30 HRS       4.4FT +/- 1.5         MOCLIPS       1541       PDT MAR 27       36 HRS       5.0FT +/- 1.6         WESTPORT       1556       PDT MAR 27       18 HRS       2.4FT +/- 0.7       2.         PORT ANGELES       1610       PDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         PORT TOWNSEND       1637       PDT MAR 27       18 HRS       2.5FT +/- 0.7       2.         PORT ORFORD       1542       PDT MAR 27       36 HRS       5.6FT +/- 1.7       6.         CHARLESTON       1547       PDT MAR 27       36 HRS       5.6FT +/- 1.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       6.0FT +/- 2.0       2.         SROOKINGS       1554       PDT MAR 27       42 HRS       6.9FT +/- 1.6       4.         * CALIFORNIA       CRESCENT CITY       1606       PDT MAR 27       24 HRS       3.1FT +/- 1.0       4.         SAN FRANCISCO       1702       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         PORT SAN LUIS       1656       PDT MAR 27       24 HRS       2.3FT	2.4FT
NEAH BAY       1540       PDT MAR 27       18 HRS       2.0FT +/- 0.6       2.         LONG BEACH       1538       PDT MAR 27       30 HRS       4.4FT +/- 1.5         MOCLIPS       1541       PDT MAR 27       30 HRS       4.4FT +/- 1.5         MOCLIPS       1541       PDT MAR 27       36 HRS       5.0FT +/- 0.7       2.         PORT ANGELES       1610       PDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         PORT TOWNSEND       1637       PDT MAR 27       36 HRS       5.6FT +/- 0.7       2.         PORT TOWNSEND       1542       PDT MAR 27       36 HRS       5.6FT +/- 0.7       6.         CHARLESTON       1542       PDT MAR 27       36 HRS       5.6FT +/- 1.7       6.         CHARLESTON       1547       PDT MAR 27       36 HRS       5.8FT +/- 1.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       5.2FT +/- 1.6       2.         SROOKINGS       1554       PDT MAR 27       42 HRS       3.9FT +/- 1.6       7.         CORT BRAGG       1602       PDT MAR 27       24 HRS       3.9FT +/- 1.3       7.         CORT SAN LUIS       1656       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.	
LONG BEACH       1538       PDT MAR 27       30 HRS       4.4FT +/- 1.5         MOCLIPS       1541       PDT MAR 27       36 HRS       5.0FT +/- 1.6         WESTPORT       1556       PDT MAR 27       18 HRS       2.4FT +/- 0.7       2.         CORT ANGELES       1610       PDT MAR 27       18 HRS       2.4FT +/- 0.5       1.         CORT TOWNSEND       1637       PDT MAR 27       18 HRS       2.5FT +/- 0.5       1.         CORT ORFORD       1542       PDT MAR 27       36 HRS       5.6FT +/- 1.7       6.         CHARLESTON       1547       PDT MAR 27       36 HRS       5.8FT +/- 0.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       5.8FT +/- 1.8       1.         NEWPORT       1552       PDT MAR 27       36 HRS       5.2FT +/- 1.6       2.         SROCKINGS       1554       PDT MAR 27       24 HRS       3.9FT +/- 1.3       1.         CORT BRAGG       1602       PDT MAR 27       24 HRS       3.0FT +/- 0.3       1.         SAN FRANCISCO       1702       PDT MAR 27       24 HRS       3.0FT +/- 1.4       5.         SANTA BARBARA       1718       PDT MAR 27       18 HRS       2.3FT +/- 0.7       1.	2.OFT
MOCLIPS       1541       PDT MAR 27       36       HRS       5.0FT +/-1.6         WESTPORT       1556       PDT MAR 27       18       HRS       2.4FT +/-0.7       2.         CORT ANGELES       1610       PDT MAR 27       18       HRS       1.6FT +/-0.7       2.         PORT TOWNSEND       1637       PDT MAR 27       18       HRS       2.5FT +/-0.7       2.         * OREGON       PORT ORFORD       1542       PDT MAR 27       36       HRS       2.8FT +/-0.7       6.         SEASIDE       1547       PDT MAR 27       24       HRS       2.8FT +/-0.8       2.         SEASIDE       1548       PDT MAR 27       36       HRS       5.0FT +/-1.8       1.         NEWPORT       1552       PDT MAR 27       36       HRS       5.2FT +/-1.6       2.         * CALIFORNIA       SROOKINGS       1554       PDT MAR 27       24       HRS       3.0FT +/-1.3       400         GORT BRAGG       1602       PDT MAR 27       24       HRS       3.0FT +/-1.4       5.         SAN FRANCISCO       1702       PDT MAR 27       24       HRS       3.0FT +/-1.4       5.         SANTA BARBARA       1718       PDT MAR 27       <	
NESTPORT       1556       PDT MAR 27       18 HRS       2.4FT +/- 0.7       2.         PORT ANCELES       1610       PDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         PORT ANCELES       1637       PDT MAR 27       18 HRS       2.5FT +/- 0.7       1.         * OREGON       PORT ORFORD       1542       PDT MAR 27       36 HRS       5.6FT +/- 1.7       6.         CHARLESTON       1547       PDT MAR 27       24 HRS       2.8FT +/- 0.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       5.0FT +/- 1.8       2.         SEASIDE       1552       PDT MAR 27       36 HRS       5.2FT +/- 1.6       2.         * CALIFORNIA       CRESCENT CITY       1606       PDT MAR 27       24 HRS       3.9FT +/- 1.3         GONT BRAGG       1602       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         SON FRANCISCO       1702       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         PORT SAN LUIS       1656       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         PORT SAN LUIS       1656       PDT MAR 27       18 HRS       2.3FT +/- 0.7       1.         LOS ANGELES HARB       1735	
PORT ANGELES       1610       PDT MAR 27       18 HRS       1.6FT +/- 0.5       1.         PORT TOWNSEND       1637       PDT MAR 27       18 HRS       2.5FT +/- 0.7         * OREGON         PORT ORFORD       1542       PDT MAR 27       36 HRS       5.6FT +/- 0.8       2.         SEASIDE       1547       PDT MAR 27       36 HRS       5.8FT +/- 0.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       5.8FT +/- 1.8       2.         SEASIDE       1554       PDT MAR 27       36 HRS       5.2FT +/- 1.6       2.         * CALIFORNIA       2       SROKINGS       1554       PDT MAR 27       42 HRS       6.9FT +/- 2.1       7.         YORT BRAGG       1602       PDT MAR 27       24 HRS       3.9FT +/- 1.3       40         YORT BRAGG       1602       PDT MAR 27       24 HRS       3.0FT +/- 0.3       40         YORT SAN LUIS       1656       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         YORT SAN LUIS       1656       PDT MAR 27       18 HRS       2.3FT +/- 0.7       1.         SANTA BARBARA       1718       PDT MAR 27       18 HRS       2.0FT +/- 0.7       1.         JEWPORT BEACH	2.1FT
PORT TOWNSEND       1637       PDT MAR 27       18 HRS $2.5FT +/- 0.7$ * OREGON         PORT ORFORD       1542       PDT MAR 27       36 HRS $5.6FT +/- 1.7$ 6.         CHARLESTON       1547       PDT MAR 27       36 HRS $5.8FT +/- 0.8$ 2.         SEASIDE       1548       PDT MAR 27       36 HRS $5.8FT +/- 1.8$ 2.         SEASIDE       1548       PDT MAR 27       36 HRS $6.0FT +/- 2.0$ 2.         BROOKINGS       1552       PDT MAR 27       36 HRS $6.0FT +/- 2.0$ 2.         BROOKINGS       1554       PDT MAR 27       36 HRS $5.2FT +/- 1.6$ 7.         * CALIFORNIA       CRESCENT CITY       1606       PDT MAR 27       24 HRS $3.1FT +/- 1.0$ 4.         SAN FRANCISCO       1702       PDT MAR 27       24 HRS $3.0FT +/- 0.9$ 3.         PORT SAN LUIS       1656       PDT MAR 27       24 HRS $2.0FT +/- 0.7$ 1.         LOS ANGELES HARB       1718       PDT MAR 27       18 HRS $2.3FT +/- 0.7$ 1.         NEWPORT BEACH       1733       PDT MAR 27       18 HRS $2.0FT +/- 0.7$ 1.         LA	.4FT
* OREGON PORT ORFORD 1542 PDT MAR 27 36 HRS 5.6FT +/- 1.7 6. CHARLESTON 1547 PDT MAR 27 24 HRS 2.8FT +/- 0.8 2. SEASIDE 1548 PDT MAR 27 36 HRS 5.8FT +/- 1.8 NEWPORT 1552 PDT MAR 27 36 HRS 6.0FT +/- 2.0 2. BROOKINGS 1554 PDT MAR 27 36 HRS 5.2FT +/- 1.6 * CALIFORNIA CRESCENT CITY 1606 PDT MAR 27 42 HRS 6.9FT +/- 2.1 7. FORT BRAGG 1602 PDT MAR 27 24 HRS 3.9FT +/- 1.3 MONTEREY 1632 PDT MAR 27 24 HRS 3.0FT +/- 0.9 3. PORT SAN LUIS 1656 PDT MAR 27 24 HRS 3.0FT +/- 0.9 3. PORT SAN LUIS 1656 PDT MAR 27 24 HRS 2.7FT +/- 0.8 1. LOS ANGELES HARB 1735 PDT MAR 27 18 HRS 2.3FT +/- 0.7 1. NEWPORT BEACH 1733 PDT MAR 27 18 HRS 2.3FT +/- 0.7 1. NEWPORT BEACH 1738 PDT MAR 27 24 HRS 3.1FT +/- 1.0 FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVE ABOVE THE TIDE. FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY. DESERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED TIME OBSERVED	
CORT ORFORD       1542       PDT MAR 27       36 HRS       5.6FT +/- 1.7       6.         CHARLESTON       1547       PDT MAR 27       24 HRS       2.8FT +/- 0.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       5.8FT +/- 1.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       5.8FT +/- 1.8       2.         SEROKINGS       1552       PDT MAR 27       36 HRS       6.0FT +/- 2.0       2.         SROOKINGS       1554       PDT MAR 27       36 HRS       5.2FT +/- 1.6         * CALIFORNIA       CRESCENT CITY       1606       PDT MAR 27       24 HRS       3.9FT +/- 1.0         CORT BRAGG       1602       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         CORT SAN LUIS       1656       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         CORT SAN LUIS       1656       PDT MAR 27       18 HRS       2.3FT +/- 0.7       1.         LOS ANGELES HARB       1735       PDT MAR 27       18 HRS       2.0FT +/- 0.7       1.         LA JOLLA       1746       PDT MAR 27       24 HRS       3.1FT +/- 1.0       1.         COCEANSIDE       1738       PDT MAR 27       24 HRS       3.1	
CHARLESTON       1547       PDT MAR 27       24 HRS       2.8FT +/- 0.8       2.         SEASIDE       1548       PDT MAR 27       36 HRS       5.8FT +/- 1.8         SEWPORT       1552       PDT MAR 27       36 HRS       6.0FT +/- 2.0       2.         SROOKINGS       1554       PDT MAR 27       36 HRS       6.0FT +/- 2.0       2.         SROOKINGS       1554       PDT MAR 27       36 HRS       6.0FT +/- 2.0       2.         SROOKINGS       1554       PDT MAR 27       36 HRS       5.2FT +/- 1.6         * CALIFORNIA       CRESCENT CITY       1606       PDT MAR 27       24 HRS       3.9FT +/- 1.3         MONTEREY       1632       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         SAN FRANCISCO       1702       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         SANTA BARBARA       1718       PDT MAR 27       24 HRS       2.7FT +/- 0.8       1.         LOS ANGELES HARB       1735       PDT MAR 27       18 HRS       2.3FT +/- 0.7       1.         JEWPORT       BEACH       1733       PDT MAR 27       24 HRS       3.5FT +/- 1.1       1.         JOCEANSIDE       1738       PDT MAR 27       24 HRS       3.5FT	
SEASIDE       1548       PDT MAR 27       36 HRS       5.8FT +/- 1.8         SEWPORT       1552       PDT MAR 27       36 HRS       6.0FT +/- 2.0       2.         SROOKINGS       1554       PDT MAR 27       36 HRS       5.2FT +/- 1.6         * CALIFORNIA         CRESCENT CITY       1606       PDT MAR 27       42 HRS       6.9FT +/- 2.1       7.         FORT BRAGG       1602       PDT MAR 27       24 HRS       3.9FT +/- 1.3       40         MONTEREY       1632       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         GONT SAN LUIS       1656       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.         SANTA BARBARA       1718       PDT MAR 27       24 HRS       2.7FT +/- 0.8       1.         LOS ANGELES HARB       1735       PDT MAR 27       18 HRS       2.3FT +/- 0.7       1.         JEWPORT BEACH       1733       PDT MAR 27       18 HRS       2.0FT +/- 0.7       1.         JA JOLLA       1746       PDT MAR 27       24 HRS       3.5FT +/- 1.1       1.         JOCEANSIDE       1738       PDT MAR 27       24 HRS       3.1FT +/- 1.0       1.         FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST WATER LENGTH OF TIME WHET HERE TOL	
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SANTA BARBARA       1718       PDT MAR 27       24 HRS       2.7FT +/- 0.8       1.         LOS ANGELES HARB       1735       PDT MAR 27       18 HRS       2.3FT +/- 0.7       1.         NEWPORT BEACH       1733       PDT MAR 27       18 HRS       2.0FT +/- 0.7       1.         LA JOLLA       1746       PDT MAR 27       24 HRS       3.5FT +/- 1.1       1.         DCEANSIDE       1738       PDT MAR 27       24 HRS       3.1FT +/- 1.0         FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVE         ABOVE THE TIDE.         FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHET HE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.         DESERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE         FIDE LEVEL AT THE TIME OF MEASUREMENT.         ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED         TIME       OBSERVED	5.6FT
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LA JOLLA       1746       PDT MAR 27       24 HRS       3.5FT +/- 1.1       1.         DCEANSIDE       1738       PDT MAR 27       24 HRS       3.1FT +/- 1.0         FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVE         ABOVE THE TIDE.         FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHETHE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.         DESERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE         PIDE LEVEL AT THE TIME OF MEASUREMENT.         ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED         TIME       OBSERVED	스ㅗ ㅗ
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ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED	
TIME OBSERVED	
TIME OBSERVED	
SITE OF MEASUREMENT TSUNAMI F	
	HEIGHT

PACIFEX 14 Handbook							
KING COVE AK		 UTC	 3-27	4.33 FT			
CHIGNIK AK			3-27	21.82 FT			
NIKOLSKI AK			3-27	1.61 FT			
UNALASKA AK	2056	UTC	3-27	1.44 FT			
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT			
LAPUSH WA			3-27	3.15 FT			
PORT ANGELES WA			3-27	1.38 FT			
GARIBALDI OR			3-27	1.05 FT			
PORT ORFORD OR			3-27	6.76 FT			
NEWPORT OR			3-27	2.46 FT			
ARENA COVE CA			3-27	5.58 FT			
EUREKA CA			3-28	4.23 FT			
POINT REYES CA			3-28 3-28	3.38 FT 1.84 FT			
ALAMEDA CA MONTEREY CA			3-20	3.97 FT			
PORT SAN LUIS CA	0108			11.82 FT			
SANTA MONICA CA	0100			4.12 FT			
SANTA MONICA CA SAN DIEGO CA	0120			1.44 FT			
MIDWAY IS	2304		3-27	1.44 FT			
NAWILIWILI HI		UTC	3-27	2.20 FT			
HALEIWA HI	2338			4.99 FT			
HONOLULU HI	2338			2.23 FT			
KAHULUI HI			3-27	7.15 FT			
KAWAIHAE HI	0014	UTC	3-28	2.89 FT			
WAKE ISLAND	0052	UTC	3-28	0.33 FT			
HEIGHT - OBSERVED MAX TSU TIDE LEVEL AT TH				LEVEL ABOVE THE			
TIDE LEVEL AT TH RELIMINARY EARTHQUAKE PAR	E TIME OF M			LEVEL ABOVE THE			
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# PACIFEX 14 Handbook NTWC Bulletin #10 WEAK51 PAAQ 280301 TSUAK1 BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 10 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 701 PM AKDT THU MAR 27 2014 THIS MESSAGE IS UPDATED WITH NEW OBSERVATIONS. ... THE TSUNAMI WARNING REMAINS IN EFFECT... ... THE TSUNAMI ADVISORY REMAINS IN EFFECT... WARNINGS/ADVISORIES/WATCHES TSUNAMI WARNING IN EFFECT FOR ... \* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR... \* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA IMPACTS FOR TSUNAMI WARNING AREAS -----\* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS \_\_\_\_\_ \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \_\_\_\_\_ \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. 63

- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

	FORECAST			FORECAST		FORECAST	OBSERVED	
	START	OF			TSUNAMI		MAX TSUNAMI	TSUNAMI
SITE	OF TSU	JNAM]	[		DUR	ATION	HEIGHT	HEIGHT
			-					
* BRITISH COLUMB								
-			MAR			HRS	1.6FT +/- 0.5	
TOFINO	1527	PDT	MAR	27	24	HRS	3.2FT +/- 1.0	2.4FT
* WASHINGTON NEAH BAY	1540	חתת	MAR	27	10	HRS	2.0FT +/- 0.6	2.0FT
	1538		MAR			HRS	4.4FT + / - 1.5	2.011
	1541		MAR	- 1		HRS	5.0FT + / - 1.6	
	1556		MAR			HRS	2.4FT + - 0.7	
	1610		MAR			HRS	1.6FT + / - 0.5	
	1637		MAR			HRS	2.5FT +/- 0.7	
TORE TOWRDEND	1007	101	1.11.11	21	10	IIIII	2.011 1/ 0./	
* OREGON								
	1542	PDT	MAR	27	36	HRS	5.6FT +/- 1.7	6.8FT
CHARLESTON	1547	PDT	MAR	27	24	HRS	2.8FT +/- 0.8	
SEASIDE	1548	PDT	MAR	27	36	HRS	5.8FT +/- 1.8	
NEWPORT	1552	PDT	MAR	27	36	HRS	6.0FT +/- 2.0	2.5FT
BROOKINGS	1554	PDT	MAR	27	36	HRS	5.2FT +/- 1.6	
* CALIFORNIA								
CRESCENT CITY	1606	PDT	MAR	27	42	HRS	6.9FT +/- 2.1	7.1FT
FORT BRAGG	1602	PDT	MAR	27	24	HRS	3.9FT +/- 1.3	
MONTEREY	1632	PDT	MAR	27	24	HRS	3.1FT +/- 1.0	4.0FT
	1702		MAR			HRS	3.0FT +/- 0.9	
	1656		MAR			HRS	4.6FT +/- 1.4	
	1718		MAR			HRS	2.7FT +/- 0.8	
	1735		MAR			HRS	2.3FT +/- 0.7	
	1733		MAR			HRS	2.0FT +/- 0.7	
	1746		MAR			HRS	3.5FT +/- 1.1	2.3FT
OCEANSIDE	1738	PDL	MAR	27	24	HRS	3.1FT +/- 1.0	

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 40 MORE HOURS ALONG SOUTHERN ALASKA COASTS EAST OF NIKOLSKI.

MUCH DAMAGE HAS BEEN REPORTED ALONG THE OREGON COAST FROM LINCOLN CITY TO NESKOWIN. WAVES HAVE ERODED THE BEACHES AROUND CASCADE HEAD DAMAGING LOCAL RESERVES. LOS ANGELES CA REPORTED A 1.2-FOOT/0.4-METER TSUNAMI.

FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL ABOVE THE TIDE.

FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH THE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.

OBSERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

ITE		'IME ASURE	MENT	OBSERVED MAX TSUNAMI HEIGH
SAND POINT AK	 1945	UTC	3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK		UTC		21.82 FT
NIKOLSKI AK		UTC		1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133			1.32 FT
YAKUTAT AK	2132			2.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK	2245	UTC	3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK	2255	UTC	3-27	3.88 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT
NEWPORT OR	2309	UTC	3-27	2.46 FT
PORT ORFORD OR	2355	UTC	3-27	6.76 FT
ARENA COVE CA	2313	UTC	3-27	5.58 FT
EUREKA CA	0006	UTC	3-28	4.23 FT
POINT REYES CA	0142	UTC	3-28	3.38 FT
ALAMEDA CA	0141	UTC	3-28	1.84 FT
MONTEREY CA	2338	UTC	3-27	3.97 FT
PORT SAN LUIS CA	0108	UTC	3-28	11.82 FT
SANTA MONICA CA	0157	UTC	3-28	4.12 FT
SAN DIEGO CA	0214	UTC	3-28	1.74 FT
MIDWAY IS	2304	UTC	3-27	1.44 FT
NAWILIWILI HI	2323			2.20 FT
HALEIWA HI	2338		3-27	4.99 FT
HONOLULU HI	2338		3-27	2.23 FT
KAHULUI HI			3-27	7.15 FT
KAWAIHAE HI			3-28	2.89 FT
WAKE ISLAND			3-28	0.33 FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

*	MAGNITUDE	9.1					
*	ORIGIN TIME	1050	AKDT	MAR	27	2014	
		1150	PDT	MAR	27	2014	
		1850	UTC	MAR	27	2014	
*	COORDINATES	55.2	NORTH	H 150	5.7	WEST	
*	ПЕРТН	11 M	TLES				

\* LOCATION 100 MILES SE OF CHIGNIK ALASKA

\_\_\_\_\_

485 MILES SW OF ANCHORAGE ALASKA

#### NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #11

WEAK51 PAAQ 280401 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 11 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 801 PM AKDT THU MAR 27 2014

THIS MESSAGE IS UPDATED WITH NEW OBSERVATIONS.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

#### TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

IMPACTS FOR TSUNAMI WARNING AREAS

			PAC	(FE)	X 14	Handbo	ook				
* A TSUNAMI WII EXPECTED.	'H SIGNI	IFICA	ANT V	VIDI	ESPRI	EAD IN	UNDATI	ON OF	LAN	D IS	
* WIDESPREAD DA CURRENTS IS F TSUNAMI ARRIV	POSSIBLE										
* THE FIRST WAV	E MAY 1	NOT E	BE TH	HE I	LARGI	EST.					
IMPACTS FOR TSUN	IAMI ADV	VISOF	RY AI	REAS	S						
* A TSUNAMI CAP TO PERSONS IN									AVES	DANGEF	ROUS
* CURRENTS MAY STRUCTURES AN ARRIVAL.											
* THE FIRST WAV	YE MAY 1	NOT E	BE TH	HE 1	LARGI	EST.					
RECOMMENDED ACTI	ONS										
* IF YOU ARE IN	. – – – I A WARI	NING	AREA	4 -	MOVI	E INLA	ND TO I	HIGHE	r gr	OUND.	
* IF YOU ARE IN HARBORS AND M											<u>,</u>
	MARINAS ADVISON INSTRUC THE COM I TO THE	. WI RY AF FIONS AST I E COF	IDESI REAS S FRO TO OP	PREA OM 1 BSEI	AD II YOUR RVE 1	NUNDAT LOCAL THE TS	ION OF EMERGI UNAMI.	LAND ENCY	IS OFFI	NOT CIALS.	7
HARBORS AND M EXPECTED FOR * BE ALERT TO I * DO NOT GO TO * DO NOT RETURN	ARINAS ADVISON INSTRUC THE COA I TO THU I TO THU S SAFE	. WI RY AF FIONS AST T E COP TO I	IDESI REAS S FRO FO OF AST U	PREZ OM 1 BSEI JNT: D.	AD II YOUR RVE 1 IL LO	NUNDAT LOCAL IHE TS DCAL E AMI AC	ION OF EMERGI UNAMI. MERGENG TIVITY	LAND ENCY	IS OFFI	NOT CIALS.	7
HARBORS AND M EXPECTED FOR * BE ALERT TO I * DO NOT GO TO * DO NOT RETURN INDICATE IT I FORECASTS AND/OF	ARINAS ADVISON INSTRUC THE COM TO THE S SAFE R OBSERV FORECM START	WI RY AF FIONS AST T E COF TO I VATIC	IDESI REAS FRO FO OF AST U DOS C	OM S SSEI	AD II YOUR RVE 1 IL LO FORI TSUN DURZ	NUNDAT LOCAL THE TS DCAL E AMI AC ECAST NAMI ATION	ION OF EMERGI UNAMI. MERGENO TIVITY	LAND ENCY CY OF AST SUNAM I	IS OFFI FICI	NOT CIALS.	VED 4I
HARBORS AND M EXPECTED FOR * BE ALERT TO I * DO NOT GO TO * DO NOT RETURN INDICATE IT I FORECASTS AND/OF	ARINAS ADVISON INSTRUC THE COM TO THE S SAFE COBSERV FORECM START OF TSU	WI RY AF FIONS AST T E COF TO I VATIC	IDESI REAS FRO FO OF AST U DOS C	OM S SSEI	AD II YOUR RVE 1 IL LO FORI TSUN DURZ	NUNDAT LOCAL THE TS DCAL E AMI AC ECAST NAMI ATION	ION OF EMERGI UNAMI. MERGENO TIVITY FORECZ MAX TS HEIGH	LAND ENCY CY OF AST SUNAM I	IS OFFI FICI	NOT CIALS. ALS OBSERV TSUNAM	VED 4I
HARBORS AND M EXPECTED FOR * BE ALERT TO I * DO NOT GO TO * DO NOT RETURN INDICATE IT I FORECASTS AND/OF	ARINAS ADVISON INSTRUCT THE COA I TO THE S SAFE COBSERV FORECA START OF TSU OF TSU OF TSU	WIRY AF	IDESI REAS FRCO OF AST U DNS C DNS C MAR	27	YOUR YOUR RVE ! IL LO FORM DUR2 18	NUNDAT LOCAL IHE TS DCAL E AMI AC ECAST NAMI ATION HRS	ION OF EMERGI UNAMI. MERGENO TIVITY FORECZ MAX TS HEIGH 1.6FT	LAND ENCY CY OF AST SUNAM I  +/-	IS OFFI FICI	NOT CIALS. ALS OBSERV TSUNAM HEIGHT  1.6FT	7ED 41 
HARBORS AND M EXPECTED FOR * BE ALERT TO I * DO NOT GO TO * DO NOT RETURN INDICATE IT I FORECASTS AND/OF CORECASTS AND/OF SITE  * BRITISH COLUM LANGARA COFINO * WASHINGTON NEAH BAY LONG BEACH MOCLIPS	ARINAS ADVISON TNSTRUC THE COA I TO THE S SAFE R OBSERV FORECA START OF TSU 1527 1540 1538 1541	PDT PDT PDT PDT PDT PDT	ELDESI REAS FROO FOO AST U DNS O CONS O CONS O MAR MAR MAR MAR MAR	27 27 27 27 27 27	AD II YOUR RVE ! IL LO FORU TSUNA DURA 24 18 30 36	NUNDAT LOCAL IHE TS OCAL E AMI AC ECAST NAMI ATION HRS HRS HRS HRS HRS	ION OF EMERGI UNAMI. MERGENO TIVITY FORECZ MAX T: HEIGH 1.6FT 3.2FT 2.0FT 4.4FT 5.0FT	LAND ENCY CY OF AST SUNAM F  +/- +/- +/- +/- +/-	<pre>OFFI OFFI FICI 0.5 1.0 0.6 1.5 1.6</pre>	NOT CIALS. ALS OBSERV TSUNAM HEIGHI  1.6FT 2.4FT 2.0FT	7ED 41 
HARBORS AND M EXPECTED FOR * BE ALERT TO I * DO NOT GO TO * DO NOT RETURN INDICATE IT I FORECASTS AND/OF CORECASTS AND/OF SITE  * BRITISH COLUM LANGARA COFINO * WASHINGTON NEAH BAY	ARINAS ADVISON INSTRUC THE COA I TO THE S SAFE COBSERV FORECA START OF TSU OF TSU 1527 1540 1538 1541 1556	PDT PDT PDT PDT PDT PDT	IDESI REAS FROO OF OOSCOOSCOOSCOOSCOOSCOOSCOOSCOOSCOO MAR MAR MAR MAR MAR	27 27 27 27 27 27 27 27 27	AD II YOUR RVE Y IIL LU FORI TSUN DURZ  18 24 18 30 36 18	NUNDAT LOCAL IHE TS OCAL E AMI AC ECAST NAMI ATION HRS HRS HRS HRS HRS HRS	ION OF EMERGI UNAMI. MERGENO TIVITY FORECA MAX TS HEIGH  1.6FT 3.2FT 2.0FT 4.4FT 5.0FT 2.4FT	LAND ENCY CY OF AST SUNAM T +/- +/- +/- +/- +/- +/-	IS OFFI FICI I 0.5 1.0 0.6 1.5 1.6 0.7	NOT CIALS. ALS OBSERV TSUNAM HEIGHT  1.6FT 2.4FT 2.0FT 2.1FT	/ED /II 

SEASIDE       1548       PDT MAR 27       36 HRS       5.8FT +/- 1.8         NEWPORT       1552       PDT MAR 27       36 HRS       5.2FT +/- 1.3         CALIFORNIA       IS54       PDT MAR 27       42 HRS       6.9FT +/- 2.1       7.1FT         CRESCNT CITY       1606       PDT MAR 27       42 HRS       3.9FT +/- 1.3       1000000000000000000000000000000000000	PORT ORFORD CHARLESTON	1542 1547	PDT PDT	MAR	27 3 27 2	6 HRS	5.6	SFT SFT	+/-	1.7	6.8F1 2 7F1	ר - ז
EEMPORT       1552       PDT MAR 27       36 HRS       6.0FT +/- 2.0       2.5FT         BROOKINGS       1554       PDT MAR 27       36 HRS       5.2FT +/- 1.6         * CALIFORNIA       *       *       CALIFORNIA         TRESCENT CITY       1606       PDT MAR 27       42 HRS       3.9FT +/- 1.0       4.0PT         ONTEREY       1632       PDT MAR 27       24 HRS       3.9FT +/- 1.0       4.0PT         SAN FRANCISCO       1702       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.7TT         SAN FRANCISCO       1702       PDT MAR 27       18 HRS       2.1FT +/- 0.7       3.1FT         SAN FRANCISCO       1738       PDT MAR 27       18 HRS       2.0FT +/- 0.7       3.1FT         SANGELES HARB       1735       PDT MAR 27       24 HRS       3.1FT +/- 1.0       3.2FT         LA JOLLA       1746       PDT MAR 27       24 HRS       3.1FT +/- 1.0       3.2FT         LA JOLLA       1746       PDT MAR 27       24 HRS       3.1FT +/- 1.0       3.2FT         LA JOLLA       1746       PDT MAR 27       24 HRS       3.1FT +/- 1.0       3.2FT         LA JOLLA       1746       PDT MAR 27       24 HRS       3.1FT +/- 1.1       3.2FT												-
* CALIFORNIA           ERESCENT CITY         1606         PDT MAR 27         42 HRS         6.9FT +/- 2.1         7.1FT           CORT BRAGG         1602         PDT MAR 27         24 HRS         3.9FT +/- 1.3         40PT           CORT SAN LUIS         1656         PDT MAR 27         24 HRS         3.0FT +/- 1.4         5.6FT           SAN FRANCISCO         1702         PDT MAR 27         24 HRS         2.7FT +/- 0.7         3.1FT           SAN BARBARA         1718         PDT MAR 27         18 HRS         2.3FT +/- 0.7         3.1FT           CONT SAN LUIS         1656         PDT MAR 27         18 HRS         2.3FT +/- 0.7         3.1FT           CANDELES HARB 1735         PDT MAR 27         14 HRS         2.3FT +/- 0.7         3.1FT           CANDLA         1746         PDT MAR 27         24 HRS         3.1FT +/- 1.0         3.2FT           CANDLA         1738         PDT MAR 27         24 HRS         3.1FT +/- 1.0         3.2FT           SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 40 MORE         30ORS ALONG SOUTHERN ALASKA COASTS EAST OF NIKOLSKI.         STENCECAST SUNAMI ALASTACCORST STRONG CURRENTS.           APPROXIMATELY 50         FEET OF SHORELINE HAS BEEN EROEDE FOM POINT         HENEY SEACH NORTH.           NORECAST TSUNAMI	IEWPORT	1552	PDT	MAR	27 3	5 HRS	6.0	)FT	+/-	2.0	2.5F1	1
RESCENT CITY       1606       PDT MAR 27       42 HRS       6.9FT +/- 2.1       7.1FT         YORT BRAGG       1602       PDT MAR 27       24 HRS       3.9FT +/- 1.0       4.0FT         YORT SAN LUS       1652       PDT MAR 27       24 HRS       3.0FT +/- 1.0       4.0FT         YAN FRANCISCO       1702       PDT MAR 27       24 HRS       3.0FT +/- 1.4       5.6FT         YAN FRANCISCO       1702       PDT MAR 27       24 HRS       2.0FT +/- 0.7       3.1FT         YAN FRANCISCO       1738       PDT MAR 27       18 HRS       2.0FT +/- 0.7       3.1FT         YAN FRANCISCO       1738       PDT MAR 27       18 HRS       2.0FT +/- 0.7       3.1FT         YAN FRANCISCO       1738       PDT MAR 27       24 HRS       3.1FT +/- 0.7       3.1FT         YAN FRANCISCO       1738       PDT MAR 27       24 HRS       3.1FT +/- 0.7       3.2FT         YAN FRANCISCO       1738       PDT MAR 27       24 HRS       3.1FT +/- 0.7       3.2FT         YAN FORDLAN       1746       PDT MAR 27       24 HRS       3.1FT +/- 1.0       3.2FT         YAN FORDLAN       ALASKA COASTS EAST OF NIKOLSKI.       YAN FOR UP TO 40 MORE       YAN FOR UP TO 40 MORE         YANTARY       PORCHA	BROOKINGS	1554	PDT	MAR	27 3	5 HRS	5.2	2FT	+/-	1.6		
CORT BRAGG         1602         PDT MAR 27         24 HRS         3.9FT +/-         1.3           IONTEREY         1632         PDT MAR 27         24 HRS         3.0FT +/-         1.0         4.0FT           IONTEREY         1632         PDT MAR 27         24 HRS         3.0FT +/-         1.0         4.0FT           IONT BARARA         1718         PDT MAR 27         24 HRS         3.0FT +/-         0.9         3.7FT           IONT BARARA         1718         PDT MAR 27         24 HRS         3.0FT +/-         0.8         3.3FT           JOSA ANGELES HARB         1735         PDT MAR 27         18 HRS         2.3FT +/-         0.7         3.1FT           JOLLA         1746         PDT MAR 27         24 HRS         3.1FT +/-         1.0         3.2FT           JOCALA         1746         PDT MAR 27         24 HRS         3.1FT +/-         1.0         3.2FT           JOCALA         1746         PDT MAR 27         24 HRS         3.1FT +/-         1.0         3.2FT           JOCANSIDE         1738         PDT MAR 27         24 HRS         3.1FT +/-         1.0         3.2FT           JOLLA         1746         PDT MAR 27         24 HRS         3.1FT         1.0										0.1	- 1	_
NAN FRANCISCO       1702       PDT MAR 27       24 HRS       3.0FT +/- 0.9       3.7FT         YORT SAN LUIS       1656       PDT MAR 27       24 HRS       2.7FT +/- 0.8       3.3FT         YORT SAN LUIS       1676       PDT MAR 27       18 HRS       2.3FT +/- 0.7       3.1FT         YOS ANGELES HARE 1735       PDT MAR 27       18 HRS       2.3FT +/- 0.7       3.1FT         A JOLLA       1746       PDT MAR 27       24 HRS       3.1FT +/- 1.0         SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 40 MORE       NORE SOUTHERN ALASKA COASTS EAST OF NIKOLSKI.         PT REYES REPORTS STRONG CURRENTS.       PPROXIMATELY 50 FFET OF SHORDELINE HAS BEEN EROBED FROM POINT         HEYES BEACH SOUTH AND 35 FEET FROM POINT REYES BEACH NORTH.       YORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL         HOVE THE TIDE.       YORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH         YHE TSUNAMI MAY PRODUCE DAMGEROUS CURRENTS AND WAVE ACTIVITY.         VPSERVED TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE         YIDE LEVEL AT THE TIME OF MEASUREMENT.         YHE OF MEASUREMENT       TSUNAMI HEIGHT         SITE       OF MEASUREMENT       TSUNAMI HEIGHT         SAND POINT AK       1945       UTC 3-27       1.61 FT         NIKOLSKI AK       2026       UT												-
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YORT SAN LUIS       1656       PDT MAR 27       30 HRS       4.6TT +/- 1.4       5.6TT         SANTA BARBARA       1718       PDT MAR 27       18 HRS       2.3TT +/- 0.7       3.JFT         JORLA       1735       PDT MAR 27       18 HRS       2.3TT +/- 0.7       3.JFT         LEWPORT BEACH       1733       PDT MAR 27       24 HRS       3.JFT +/- 1.0       3.2FT         SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 40 MORE       MORE MOURS ALONG SOUTHERN ALASKA COASTS EAST OF NIKOLSKI.       TREYES REPORTS STRONG CURRENTS.         PUPROXIMATELY 50 FFET OF SHORLINE HAS BEEN ERODED FROM POINT       REYES BEACH NORTH.         YORECAST MAX TSUNAMI ACTIVITY IS THE HIGHEST EXPECTED WATER LEVEL       HEOVE THE TIDE.         YORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH       HE TSUNAMI MAY PRODUCE DANGEROUS CURRENTS AND WAVE ACTIVITY.         VBSERVED TSUNAMI MEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE       TIDE       TIME       OBSERVED MAX         SITE       OF MEASUREMENT.       TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE       TOWERAURANT         SITE       OF MEASUREMENT.       TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE       TOWENAURANT HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE         SITE       OF MEASUREMENT       TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE       TOWENAURANT HEIGHT IS THE HIGHEST WATER LEVEL	IONTEREI	1702	PD.I.	MAR	21 2	HRS 1 UDC	3.1	רה.ד. דה.ד.	+/-	1.0	4.0F1 3 7En	- -
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NEWPORT BEACH       1733       PDT MAR 27       18 HRS       2.0FT +/- 0.7         LA JOLLA       1746       PDT MAR 27       24 HRS       3.5FT +/- 1.1       3.2FT         DOLANDIT       1738       PDT MAR 27       24 HRS       3.1FT +/- 1.0       3.2FT         SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 40 MORE       NOURS ALONG SOUTHERN ALASKA COASTS EAST OF NIKOLSKI.         PT REYES REPORTS STRONG CURRENTS.       APPROXIMATELY 50 FEET OF SHORELINE HAS BEEN ERODED FROM POINT       REYES BEACH SOUTH AND 35 FEET FROM POINT REYES BEACH NORTH.         FORECAST MAX TSUNAMI HEIGHT IS THE HIGHEST EXPECTED WATER LEVEL       ABOVE THE TIDE.       FORECAST TSUNAMI DURATION IS THE APPROXIMATE LENGTH OF TIME WHICH         FOR EXAMPTIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED       TSUNAMI HEIGHT IS THE HIGHEST WATER LEVEL ABOVE THE         SITE       OF MEASUREMENT       TSUNAMI HEIGHT	LOS ANGELES HARB	1735	PDT	MAR	27 1	B HRS	2.3	BFT	+/-	0.7	3.1FT	1
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SITE         TIME OF MEASUREMENT         OBSERVED MAX TSUNAMI HEIGHT           SAND POINT AK KING COVE AK         1945         UTC 3-27         11.60 FT           KING COVE AK         2023         UTC 3-27         4.33 FT           CHIGNIK AK         2026         UTC 3-27         1.82 FT           NIKOLSKI AK         2054         UTC 3-27         1.61 FT           UNALASKA AK         2006         UTC 3-27         1.61 FT           UNALASKA AK         2010         UTC 3-27         1.61 FT           UNALASKA AK         2100         UTC 3-27         1.03 FT           SEWARD AK         2133         UTC 3-27         1.32 FT           ADAK AK         2132         UTC 3-27         1.44 FT           PORT ALEXANDER AK         2145         UTC 3-27         1.32 FT           YAKUTAT AK         2132         UTC 3-27         1.41 FT           CORDOVA AK         2235         UTC 3-27         1.82 FT           SITKA AK         2245         UTC 3-27         3.74 FT           SITKA AK         2222         UTC 3-27         3.88 FT           LAPUSH WA         2241         UTC 3-27         3.15 FT           PORT ANGELES WA         2354         UTC 3-27 <t< td=""><td>FORECAST TSUNAMI FHE TSUNAMI MAY H</td><td>DURATI PRODUCE</td><td>E DAN</td><td>IGERO</td><td>ous cu</td><td>RRENTS</td><td>AND</td><td>WAV</td><td>ΈAC</td><td>CTIVI</td><td>TY.</td><td>I</td></t<>	FORECAST TSUNAMI FHE TSUNAMI MAY H	DURATI PRODUCE	E DAN	IGERO	ous cu	RRENTS	AND	WAV	ΈAC	CTIVI	TY.	I
SITE         TIME OF MEASUREMENT         OBSERVED MAX TSUNAMI HEIGHT           SAND POINT AK KING COVE AK CHIGNIK AK         1945         UTC 3-27         11.60 FT           NIKOLSKI AK         2026         UTC 3-27         21.82 FT           NIKOLSKI AK         2054         UTC 3-27         1.61 FT           UNALASKA AK         2006         UTC 3-27         1.61 FT           UNALASKA AK         2010         UTC 3-27         1.61 FT           VNALASKA AK         2010         UTC 3-27         1.61 FT           VNALASKA AK         2010         UTC 3-27         1.61 FT           VNALASKA AK         2100         UTC 3-27         1.61 FT           ADAK AK         2110         UTC 3-27         1.03 FT           ELFIN COVE AK         2133         UTC 3-27         1.32 FT           YAKUTAT AK         2132         UTC 3-27         1.41 FT           PORT ALEXANDER AK         2114         UTC 3-27         1.42 FT           SITKA AK         2225         UTC 3-27         3.74 FT           SITKA AK         2222         UTC 3-27         3.88 FT           LAPUSH WA         2241         UTC 3-27         3.15 FT           PORT ANGELES WA         2354         UTC 3-2	FORECAST TSUNAMI IHE TSUNAMI MAY I DBSERVED TSUNAMI	DURATI PRODUCE HEIGHI	E DAN	IGERO THE	DUS CU HIGHE	RRENTS ST WAI	AND	WAV	ΈAC	CTIVI	TY.	I
SITE       OF MEASUREMENT       TSUNAMI HEIGHT         SAND POINT AK       1945       UTC 3-27       11.60 FT         KING COVE AK       2023       UTC 3-27       4.33 FT         CHIGNIK AK       2026       UTC 3-27       21.82 FT         NIKOLSKI AK       2054       UTC 3-27       1.61 FT         UNALASKA AK       2056       UTC 3-27       4.50 FT         SEWARD AK       2100       UTC 3-27       4.11 FT         ADAK AK       2100       UTC 3-27       1.03 FT         ELFIN COVE AK       2133       UTC 3-27       1.32 FT         YAKUTAT AK       2132       UTC 3-27       1.44 FT         PORT ALEXANDER AK       2133       UTC 3-27       1.32 FT         YAKUTAT AK       2132       UTC 3-27       1.41 FT         CORDOVA AK       2235       UTC 3-27       1.41 FT         SITKA AK       2245       UTC 3-27       1.82 FT         SITKA AK       2222       UTC 3-27       3.74 FT         SITKA AK       2222       UTC 3-27       3.88 FT         LAPUSH WA       2241       UTC 3-27       3.15 FT         PORT ANGELES WA       2354       UTC 3-27       1.38 FT <th>FORECAST TSUNAMI THE TSUNAMI MAY I DBSERVED TSUNAMI</th> <th>DURATI PRODUCE HEIGHI</th> <th>E DAN</th> <th>IGERO THE</th> <th>DUS CU HIGHE</th> <th>RRENTS ST WAI</th> <th>AND</th> <th>WAV</th> <th>ΈAC</th> <th>CTIVI</th> <th>TY.</th> <th>I</th>	FORECAST TSUNAMI THE TSUNAMI MAY I DBSERVED TSUNAMI	DURATI PRODUCE HEIGHI	E DAN	IGERO THE	DUS CU HIGHE	RRENTS ST WAI	AND	WAV	ΈAC	CTIVI	TY.	I
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# PACIFEX 14 Handbook PUBLIC TSUNAMI MESSAGE NUMBER 12 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 901 PM AKDT THU MAR 27 2014 THIS MESSAGE IS UPDATED WITH NEW OBSERVATIONS. ... THE TSUNAMI WARNING REMAINS IN EFFECT... ... THE TSUNAMI ADVISORY REMAINS IN EFFECT ... WARNINGS/ADVISORIES/WATCHES \_\_\_\_\_ TSUNAMI WARNING IN EFFECT FOR ... \* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR ... \* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS \_\_\_\_\_ \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. 70

\* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.

 $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

FORECASTS AND/OR OBSERVATIONS OF TSUNAMI ACTIVITY

			EODECAG		ODGEDVED
	START	AST ' OF	TSUNAMT	T FORECAST MAX TSUNAMI	OBSERVED TSUNAMI
SITE				N HEIGHT	
		SUNAMI			
* WASHINGTON					
				2.0FT +/- 0.6	
LONG BEACH	1538	PDT MAR 27	7 30 HRS	4.4FT +/- 1.5	5
MOCLIPS	1541	PDT MAR 27	7 36 HRS	5.0FT +/- 1.6	5
WESTPORT	1556	PDT MAR 27	7 18 HRS		7 2.1FT
PORT ANGELES	1610	PDT MAR 27	7 18 HRS	1.6FT +/- 0.5	5 1.4FT
PORT TOWNSEND	1637	PDT MAR 27	7 18 HRS	2.5FT +/- 0.7	
* ODDCON					
* OREGON PORT ORFORD	1540	PDT MAR 27	7 36 HRS	5.6FT +/- 1.7	7 6.8FT
CHARLESTON	1542	PDI MAR 2		2.8FT + - 0.8	0.0F1 2 2 7ET
SEASIDE		PDI MAR 27		5.8FT +/- 1.8	
NEWPORT		PDT MAR 27			
BROOKINGS	1554	PDT MAR 27	7 36 HRS	6.0FT +/- 2.0 5.2FT +/- 1.6	5 2.JII
Dicolitinob	1001		50 1110	0.211 ., 1.0	
* CALIFORNIA					
CDECCENT CITY	1606	PDT MAR 27	7 42 HRS	6.9FT +/- 2.1	L 7.1FT
FORT BRAGG MONTEREY	1602	PDT MAR 27	7 24 HRS	3.9FT +/- 1.3	
MONTEREY	1632	PDT MAR 27	7 24 HRS	3.1FT +/- 1.0	) 4.0FT
SAN FRANCISCO PORT SAN LUIS	1702	PDT MAR 27	7 24 HRS	3.0FT +/- 0.9	9 3.7FT
PORT SAN LUIS	1656	PDT MAR 27	7 30 HRS	4.6FT +/- 1.4	1 5.6FT
SANTA BARBARA					
LOS ANGELES HARE	1735	PDT MAR 27	7 18 HRS	2.3FT +/- 0.7	7 3.1FT
NEWPORT BEACH LA JOLLA	1733	PDT MAR 27	7 18 HRS	2.0FT +/- 0.7	7
la jolla	1746	PDT MAR 27	7 24 HRS	3.5FT +/- 1.1	L 3.5FT
OCEANSIDE	1738	PDT MAR 27	7 24 HRS	3.1FT +/- 1.0	)
SIGNIFICANT TSUN					
HOURS ALONG SOUT	HERN A	LASKA COASI	'S EAST O	F NIKOLSKI AND I	IN BRITISH
COLUMBIA.					
FORECAST MAX TSU	мамт н	ודוכאי דפ ייי	IF HICHES	η ενρεότει ωλήτε	
ABOVE THE TIDE.			in intenes	I BAIDCIDD WAIDI	
ADOVE THE TIDE.					
FORECAST TSUNAMI	DURAT	TON IS THE	APPROXIM	ATE LENGTH OF TI	IME WHICH
THE TSUNAMI MAY					
OBSERVED TSUNAMI	HEIGH	IT IS THE HI	GHEST WA	TER LEVEL ABOVE	THE
TIDE LEVEL AT TH	E TIME	OF MEASURE	EMENT.		
ADDITIONAL OBSER	VATION	IS OF TSUNAM	II ACTIVI	TY - UPDATED	
			TIME	OBSE	ERVED MAX
SITE		C	OF MEASUR	EMENT TSUN	NAMI HEIGHT
					71

#### PACIFEX 14 Handbook \_\_\_\_\_ \_\_\_\_\_ 1945 UTC 3-27 SAND POINT AK 11.60 FT KING COVE AK 2023 UTC 3-27 4.33 FT 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 21.82 FT CHIGNIK AK NIKOLSKI AK 1.61 FT 1.44 FT UNALASKA AK 2100 UTC 3-27 KODIAK AK 4.50 FT 2110 UTC 3-27 2145 UTC 3-27 2133 UTC 3-27 SEWARD AK 4.11 FT ADAK AK 1.03 FT 1.32 FT ELFIN COVE AK 2132 UTC 3-27 YAKUTAT AK 2.44 FT 2114 UTC 3-27 2235 UTC 3-27 2245 UTC 3-27 1.41 FT PORT ALEXANDER AK CORDOVA AK 1.82 FT SHEMYA AK 0.34 FT 3.74 FT 3.88 FT 1.60 FT 2.41 FT 2222 UTC 3-27 SITKA AK 2255 UTC 3-27 2300 UTC 3-27 2334 UTC 3-27 CRAIG AK LANGARA BC TOFINO BC 2334 UTC 3-27 2.41 FT 2241 UTC 3-27 3.15 FT LAPUSH WA 3-27 3-27 3-27 2354 UTC 3-27 2259 UTC 3-27 2309 UTC 3-27 PORT ANGELES WA GARIBALDI OR NEWPORT OR 2305 2355 UTC 3-27 2313 UTC 3-27 2006 UTC 3-28 2 28 6.76 FT 5.58 FT PORT ORFORD OR ARENA COVE CA 0006 UTC 3-28 0142 UTC 3-28 0141 UTC 3-28 4.23 FT EUREKA CA 3.38 FT POINT REYES CA 1.84 FT ALAMEDA CA 2338 UTC 3-27 0108 UTC 3-28 0157 UTC 3-28 MONTEREY CA 3.97 FT PORT SAN LUIS CA 11.82 FT SANTA MONICA CA 4.12 FT 0157 UTC 3-28 0214 UTC 3-28 2304 UTC 3-27 2323 UTC 3-27 4.--1.74 FT SAN DIEGO CA 1.44 FT MIDWAY IS 2323 UTC 3-27 2338 UTC 3-27 2338 UTC 3-27 2.20 FT NAWILIWILI HI HALEIWA HI 4.99 FT 2338 UTC 3-27 2338 UTC 3-27 2341 UTC 3-27 0014 UTC 3-28 0052 UTC 3-28 0321 UTC 3-28 2.23 FT HONOLULU HT 7.15 FT 2.89 FT 0.33 FT KAHULUI HI KAWAIHAE HI WAKE ISLAND 0.30 FT GUAM PAGO PAGO AM SAMOA 0433 UTC 3-28 0.46 FT HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. PRELIMINARY EARTHQUAKE PARAMETERS \_\_\_\_\_ \* MAGNITUDE 9.1 \* ORIGIN TIME 1050 AKDT MAR 27 2014 1150 PDT MAR 27 2014 1850 UTC MAR 27 2014 \* COORDINATES 55.2 NORTH 156.7 WEST 11 MILES 100 MILES SE OF CHIGNIK ALASKA \* DEPTH \* LOCATION 485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION

\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.

- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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# NTWC Bulletin #13

WEAK51 PAAQ 280600 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 13 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1000 PM AKDT THU MAR 27 2014

IN THIS MESSAGE THE FORECAST CHART HAS BEEN REMOVED AND ALL OBSERVATIONS ARE CONTAINED IN THE OBSERVATION TABLE. SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED FOR MANY LOCATIONS ON THE WEST COAST FOR UP TO 48 HOURS.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR ...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR ...

\* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

IMPACTS FOR TSUNAMI WARNING AREAS

\_\_\_\_\_

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

	PACIFEX 14 Handbook	
MPACTS FOR TSUNAMI ADVISOF		
* A TSUNAMI CAPABLE OF PRO TO PERSONS IN OR VERY NE	ODUCING STRONG CURRENTS	
* CURRENTS MAY BE HAZARDOU STRUCTURES AND MAY CONT ARRIVAL.		
* THE FIRST WAVE MAY NOT B	BE THE LARGEST.	
ECOMMENDED ACTIONS		
* IF YOU ARE IN A WARNING	AREA - MOVE INLAND TO H	IIGHER GROUND.
* IF YOU ARE IN AN ADVISOF HARBORS AND MARINAS. WI EXPECTED FOR ADVISORY AF	IDESPREAD INUNDATION OF	
* BE ALERT TO INSTRUCTIONS	S FROM YOUR LOCAL EMERGE	NCY OFFICIALS.
* DO NOT GO TO THE COAST T	TO OBSERVE THE TSUNAMI.	
* DO NOT RETURN TO THE COA	ACH INHII IOCAI EMEDCENC	V OFFICIALS
INDICATE IT IS SAFE TO I IGNIFICANT TSUNAMI ACTIVIT 6 MORE HOURS EAST OF NIKOI OAST.	LSKI AND ALONG THE US AN	ID CANADIAN WEST
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	PAG	CIFEX 14	Handt	ook	
GARIBALDI OR		2259	UTC	3-27	1.05 FT
NEWPORT OR				3-27	2.46 FT
CHARLESTON OR		2333	UTC	3-27	2.74 FT
PORT ORFORD OR	R			3-27	6.76 FT
CRESCENT CITY	CA			3-28	7.11 FT
ARENA COVE CA		2313	UTC	3-27	5.58 FT
EUREKA CA				3-28	4.23 FT
POINT REYES CA				3-28	3.38 FT
SAN FRANCISCO				3-28	3.71 FT
ALAMEDA CA				3-28	1.84 FT
MONTEREY CA				3-27	3.97 FT
PORT SAN LUIS SANTA BARBARA				3-28 3-28	11.82 FT 3.32 FT
SANTA MONICA C				3-28	4.12 FT
SAN PEDRO CA				3-28	3.11 FT
LA JOLLA CA		0222			3.5 FT
SAN DIEGO CA				3-28	1.74 FT
MIDWAY IS		2304			1.44 FT
NAWILIWILI HI		2323	UTC	3-27	2.20 FT
HALEIWA HI		2338 2338	UTC	3-27	4.99 FT
HONOLULU HI		2338	UTC	3-27	2.23 FT
KAHULUI HI		2341	UTC	3-27	7.15 FT
KAWAIHAE HI		0014	UTC	3-28	2.89 FT
WAKE ISLAND		0052			0.33 FT
GUAM		0321			0.30 FT
PAGO PAGO AM S	SAMOA	0433	UTC	3-28	0.46 FT
TIDE LE RELIMINARY EARTH	VEL AT THE T	IME OF M TERS 	EASUR		LEVEL ABOVE THE
TIDE LE RELIMINARY EARTH	OUEL AT THE T           1000AKE PARAME           9.1           1050 AKDT MI           1150 PDT MI           1850 UTC MI           55.2 NORTH I           11 MILES           100 MILES SI           485 MILES SI	IME OF M TERS  AR 27 20 AR 27 20 AR 27 20 156.7 WE E OF CHI W OF ANC	EASUR 14 14 14 ST GNIK HORAG	EMENT. ALASKA	LEVEL ABOVE THE
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WEAK51 PAAQ 280701 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 14 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1101 PM AKDT THU MAR 27 2014

NO NEW INFORMATION IS CONTAINED IN THIS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

#### WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

# IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

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#### IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF

HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.

- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 36 MORE HOURS EAST OF NIKOLSKI AND ALONG THE US AND CANADIAN WEST COAST.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	OF ME	IME ASURE		OBSERVED MAX TSUNAMI HEIGHT
SAND POINT AK	1945	UTC	3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056			1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK	2245	UTC	3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK	2255		3-27	3.88 FT
LANGARA BC	2300	UTC	3-27	1.60 FT
TOFINO BC	2334	UTC	3-27	2.41 FT
NEAH BAY WA	2234	UTC	3-27	2.02 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
WESTPORT WA	2302	UTC	3-27	2.11 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT
NEWPORT OR	2309	UTC	3-27	2.46 FT
CHARLESTON OR	2333	UTC	3-27	2.74 FT
PORT ORFORD OR	2355	UTC	3-27	6.76 FT
CRESCENT CITY CA	0100	UTC	3-28	7.11 FT
ARENA COVE CA	2313	UTC	3-27	5.58 FT
EUREKA CA	0006	UTC	3-28	4.23 FT
POINT REYES CA	0142	UTC	3-28	3.38 FT
SAN FRANCISCO	0155	UTC	3-28	3.71 FT
ALAMEDA CA	0141	UTC	3-28	1.84 FT
MONTEREY CA	2338	UTC	3-27	3.97 FT
PORT SAN LUIS CA	0108	UTC	3-28	11.82 FT
SANTA BARBARA CA	0145	UTC	3-28	3.32 FT
SANTA MONICA CA	0157		3-28	4.12 FT
SAN PEDRO CA	0230	UTC	3-28	3.11 FT
la jolla ca	0222	UTC	3-28	3.5 FT
SAN DIEGO CA	0214	UTC	3-28	1.74 FT

MIDWAY IS	2304	UTC	3-27	1.44 FT
NAWILIWILI HI	2323	UTC	3-27	2.20 FT
HALEIWA HI	2338	UTC	3-27	4.99 FT
HONOLULU HI	2338	UTC	3-27	2.23 FT
KAHULUI HI	2341	UTC	3-27	7.15 FT
KAWAIHAE HI	0014	UTC	3-28	2.89 FT
WAKE ISLAND	0052	UTC	3-28	0.33 FT
GUAM	0321	UTC	3-28	0.30 FT
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.46 FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

#### PRELIMINARY EARTHQUAKE PARAMETERS

9.1

- \* MAGNITUDE
- \* ORIGIN TIME 1050 AKDT MAR 27 2014 1150 PDT MAR 27 2014
- 1850 UTC MAR 27 2014
- \* COORDINATES 55.2 NORTH 156.7 WEST 11 MILES
- \* DEPTH \* LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA

#### NEXT UPDATE AND ADDITIONAL INFORMATION \_\_\_\_\_

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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# NTWC Bulletin #15

WEAK51 PAAQ 280800 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 15 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1200 AM AKDT FRI MAR 28 2014

NO NEW INFORMATION IS CONTAINED IN THIS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

	ACIFEX 14 Handbook	
rsunami warning in effect fo	PR	
* THE COASTAL AREAS OF CALI BRITISH COLUMBIA AND ALAS BORDER TO NIKOLSKI ALASKA	KA FROM THE CALIFORNIA	
SUNAMI ADVISORY IN EFFECT F	'OR	
* THE COASTAL AREAS OF ALAS ALASKA	KA FROM NIKOLSKI ALASK	KA TO ATTU
IMPACTS FOR TSUNAMI WARNING	AREAS	
* WIDESPREAD DANGEROUS COAS CURRENTS IS POSSIBLE AND TSUNAMI ARRIVAL.		
* THE FIRST WAVE MAY NOT BE	THE LARGEST.	
IMPACTS FOR TSUNAMI ADVISORY	AREAS	
* A TSUNAMI CAPABLE OF PROD TO PERSONS IN OR VERY NEA		
* CURRENTS MAY BE HAZARDOUS STRUCTURES AND MAY CONTIN ARRIVAL.		
+ HUE ETDOR MANE MAN NOR DE	THE LARGEST.	
* THE FIRST WAVE MAY NOT BE		
RECOMMENDED ACTIONS		
RECOMMENDED ACTIONS * IF YOU ARE IN A WARNING A		
RECOMMENDED ACTIONS	AREA - MOVE OFF THE E ESPREAD INUNDATION OF	BEACH AND OUT OF
* IF YOU ARE IN A WARNING A * IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WID	AREA - MOVE OFF THE E DESPREAD INUNDATION OF DAS.	BEACH AND OUT OF LAND IS NOT
* IF YOU ARE IN A WARNING A * IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WID EXPECTED FOR ADVISORY ARE	AREA - MOVE OFF THE E DESPREAD INUNDATION OF TAS. FROM YOUR LOCAL EMERGE	BEACH AND OUT OF LAND IS NOT
<ul> <li>* IF YOU ARE IN A WARNING A</li> <li>* IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WID EXPECTED FOR ADVISORY ARE</li> <li>* BE ALERT TO INSTRUCTIONS</li> </ul>	AREA - MOVE OFF THE E DESPREAD INUNDATION OF TAS. FROM YOUR LOCAL EMERGE OBSERVE THE TSUNAMI. T UNTIL LOCAL EMERGENCE	BEACH AND OUT OF LAND IS NOT ENCY OFFICIALS.
<ul> <li>* IF YOU ARE IN A WARNING A</li> <li>* IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WID EXPECTED FOR ADVISORY ARE</li> <li>* BE ALERT TO INSTRUCTIONS</li> <li>* DO NOT GO TO THE COAST TO</li> <li>* DO NOT RETURN TO THE COAST</li> </ul>	AREA - MOVE OFF THE E DESPREAD INUNDATION OF TAS. FROM YOUR LOCAL EMERGE O OBSERVE THE TSUNAMI. T UNTIL LOCAL EMERGENCO SO.	BEACH AND OUT OF LAND IS NOT ENCY OFFICIALS.
<ul> <li>* IF YOU ARE IN A WARNING A</li> <li>* IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WID EXPECTED FOR ADVISORY ARE</li> <li>* BE ALERT TO INSTRUCTIONS</li> <li>* DO NOT GO TO THE COAST TO</li> <li>* DO NOT RETURN TO THE COAS INDICATE IT IS SAFE TO DO</li> </ul>	AREA - MOVE OFF THE E DESPREAD INUNDATION OF TAS. FROM YOUR LOCAL EMERGE O OBSERVE THE TSUNAMI. T UNTIL LOCAL EMERGENC O SO. SUNAMI ACTIVITY - UPDA TIME	EEACH AND OUT OF LAND IS NOT ENCY OFFICIALS. EY OFFICIALS
<ul> <li>RECOMMENDED ACTIONS</li> <li>* IF YOU ARE IN A WARNING A</li> <li>* IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WID EXPECTED FOR ADVISORY ARE</li> <li>* BE ALERT TO INSTRUCTIONS</li> <li>* DO NOT GO TO THE COAST TO</li> <li>* DO NOT RETURN TO THE COAS INDICATE IT IS SAFE TO DO</li> </ul>	AREA - MOVE OFF THE E DESPREAD INUNDATION OF TAS. FROM YOUR LOCAL EMERGE O OBSERVE THE TSUNAMI. T UNTIL LOCAL EMERGENC O SO. SUNAMI ACTIVITY - UPDA TIME OF MEASUREMENT	EACH AND OUT OF LAND IS NOT ENCY OFFICIALS. EY OFFICIALS ATED OBSERVED MAX TSUNAMI HEIGHT
<ul> <li>RECOMMENDED ACTIONS</li> <li>* IF YOU ARE IN A WARNING A</li> <li>* IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WID EXPECTED FOR ADVISORY ARE</li> <li>* BE ALERT TO INSTRUCTIONS</li> <li>* DO NOT GO TO THE COAST TO</li> <li>* DO NOT RETURN TO THE COAS INDICATE IT IS SAFE TO DO</li> </ul>	AREA - MOVE OFF THE E DESPREAD INUNDATION OF TAS. FROM YOUR LOCAL EMERGE O OBSERVE THE TSUNAMI. T UNTIL LOCAL EMERGENC O SO. SUNAMI ACTIVITY - UPDA TIME OF MEASUREMENT	EACH AND OUT OF LAND IS NOT ENCY OFFICIALS. EY OFFICIALS ATED OBSERVED MAX TSUNAMI HEIGHT 

NIKOLSKI AK       2054       UTC 3-27       1.61       FT         UNALASKA AK       2056       UTC 3-27       1.60       FT         SEWARD AK       2110       UTC 3-27       4.50       FT         SEWARD AK       2110       UTC 3-27       4.50       FT         SEWARD AK       2110       UTC 3-27       1.03       FT         ELFIN COVE AK       2133       UTC 3-27       1.41       FT         ORT ALEXANDER AK       2114       UTC 3-27       1.41       FT         CORDOVA AK       2235       UTC 3-27       1.34       FT         SITKA AK       2222       UTC 3-27       3.74       FT         CRAIG AK       2255       UTC 3-27       2.64       FT         LANGARA BC       2030       UTC 3-27       2.66       FT         LANGARA BC       2300       UTC 3-27       2.66       FT         LAPUSH WA       2241       UTC 3-27       2.66       FT         LAPUSH WA       2234       UTC 3-27       2.66       FT         DORT ANCELS WA       2354       UTC 3-27       1.68       FT         LANGARA CC       2309       UTC 3-27       1.64       FT </th <th>CHIGNIK AK</th> <th>2026</th> <th>UTC</th> <th>3-27</th> <th>21.82 FT</th>	CHIGNIK AK	2026	UTC	3-27	21.82 FT
UNALASKA AK 2056 UTC 3-27 1.44 FT KODIAK AK 2100 UTC 3-27 4.50 FT SWARD AK 2110 UTC 3-27 4.11 FT ADAK AK 2110 UTC 3-27 1.03 FT LADAK AK 2145 UTC 3-27 1.32 FT YAKUTAT AK 2132 UTC 3-27 1.41 FT CORDOVA AK 2235 UTC 3-27 1.82 FT SHEMTA AK 2245 UTC 3-27 1.82 FT SHEMTA AK 2245 UTC 3-27 1.82 FT SHEMTA AK 2225 UTC 3-27 1.82 FT SHEMTA AK 2225 UTC 3-27 1.84 FT CARLG AK 2255 UTC 3-27 3.84 FT CARLG AK 2255 UTC 3-27 3.84 FT LANGARA BC 2300 UTC 3-27 1.60 FT TOFINO BC 2334 UTC 3-27 2.11 FT NEAH BAY WA 2241 UTC 3-27 2.11 FT PORT ANCELSS WA 2354 UTC 3-27 1.05 FT GARIBALDI OR 2259 UTC 3-27 1.05 FT CARLESTON OR 2309 UTC 3-27 1.05 FT CARLESTON OR 2333 UTC 3-27 1.05 FT CARLESTON OR 2333 UTC 3-27 2.74 FT CRARCENT CAR 2333 UTC 3-27 2.74 FT CRARCENT CTY CA 0100 UTC 3-28 7.11 FT PORT ANCELSS WA 2355 UTC 3-27 6.76 FT CRESCENT CTY CA 0100 UTC 3-28 7.11 FT PORT ANCELS WA 2355 UTC 3-27 6.76 FT CRESCENT CTY CA 0100 UTC 3-28 7.11 FT ARENA COVE CA 2313 UTC 3-27 5.58 FT ARENA COVE CA 2313 UTC 3-27 5.58 FT ALAMEDA CA 0141 UTC 3-28 1.82 FT PORT REYES CA 0142 UTC 3-28 3.38 FT ARENA COVE CA 2318 UTC 3-27 3.97 FT ALAMEDA CA 0141 UTC 3-28 1.84 FT MONTEREY CA 0230 UTC 3-28 1.97 FT ALAMEDA CA 0141 UTC 3-28 1.82 FT SANTA MONICA CA 0230 UTC 3-28 1.97 FT ALAMEDA CA 0141 UTC 3-28 1.97 FT ALAMEDA CA 0141 UTC 3-28 1.97 FT ALAMEDA CA 0145 UTC 3-28 1.97 FT ALAMEDA CA 0230 UTC 3-28 1.97 FT ANT MONICA CA 0230 UTC 3-28 1.97 FT ANT MONICA CA 0230 UTC 3-28 1.97 FT MIDWAY IS 2.304 UTC 3-27 1.94 FT MAWLIWILL HI 2338 UTC 3-27 4.99 FT HONOLULU HI 2338 UTC 3-28 0.33 FT FAGO PAGO AM SAMOA 0433 UTC 3-28 0.34 FT TIDE LEVEL AT THE TIME OF MEASUREMENT. LIMINARY EARTHQUAKE PARAMETERS -					
SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ADAK AK       2133       UTC       3-27       1.32       FT         ADAK AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.42       FT         SHEMTA AK       2222       UTC       3-27       1.60       FT         CALG AK       2255       UTC       3-27       2.61       FT         LANGARA BC       2300       UTC       3-27       2.61       FT         NEAH BAY WA       2234       UTC       3-27       1.05       FT         NEAPTORT MA       2302       UTC       3-27       1.05       FT         NEAPTORT WA       2302       UTC       3-27       1.05       FT         NEAPTORT WA       2302       UTC       3-27       1.05       FT         OPART OR       2333					
ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.64       FT         SEMMA AK       2245       UTC       3-27       3.74       FT         STRKA AK       2222       UTC       3-27       3.74       FT         CARIG AK       2255       UTC       3-27       1.60       FT         LANGARA BC       2300       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.16       FT         NEAH BAY WA       2302       UTC       3-27       1.05       FT         ARIBALDI OR       2350       UTC       3-27       1.05       FT         SARIBALDI OR       2333       UTC       3-27       1.05       FT         ORTARESTON OR	KODIAK AK	2100	UTC	3-27	4.50 FT
ELFIN COVE AK       2133       UTC       3-27       1.32       FT         LAKUTAT AK       2132       UTC       3-27       2.44       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         SHEMYA AK       2245       UTC       3-27       1.42       FT         SHARA AK       2225       UTC       3-27       0.34       FT         CARDARA BC       2000       UTC       3-27       3.48       FT         LANGARA BC       2000       UTC       3-27       2.41       FT         VERAH BAY WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2302       UTC       3-27       1.05       FT         VESTPORT WA       2302       UTC       3-27       1.05       FT         NEWFORT OR       2309       UTC       3-27       1.05       FT         NEWPORT OR       2333       UTC       3-27       2.46       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         RAREALDI OR       2333       UTC       3-27       5.76       FT         SORT CORD OR	SEWARD AK	2110			4.11 FT
YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.82       FT         SHEMTA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       3.74       FT         CARLG AK       2225       UTC       3-27       3.68       FT         LANGARA BC       2300       UTC       3-27       2.61       FT         NEAH BAY WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2344       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.74       FT         PORT ORORD OR       2355       UTC       3-27       2.74       FT         PORT ORORD OR       2355       UTC       3-28       7.11       FT         ARLBACA       0100       UTC       3-28       7.11       FT         PARENA COVE CA	ADAK AK	2145	UTC		1.03 FT
PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.82       FT         SITKA AK       2245       UTC       3-27       1.82       FT         SITKA AK       2225       UTC       3-27       3.64       FT         LANGARA BC       2300       UTC       3-27       1.60       FT         TOFINO BC       2334       UTC       3-27       2.61       FT         NEAH BAY WA       2234       UTC       3-27       2.61       FT         NEAH BAY WA       2341       UTC       3-27       2.11       FT         ORT ANGELES WA       2355       UTC       3-27       2.16       FT         SARIBALDI OR       2259       UTC       3-27       2.16       FT         PORT ANGELES WA       2354       UTC       3-27       2.16       FT         SARIBALDI OR       2259       UTC       3-27       2.74       FT         DORT OR CORD OR       2355       UTC       3-27       2.74       FT         DEREKA CA       0100       UTC       3-28       7.11       FT         SAN FR					
CORDOVA AK         2235         UTC         3-27         1.82         FT           SHEMMA AK         2245         UTC         3-27         0.34         FT           SHEMA AK         2225         UTC         3-27         3.74         FT           CRAIG AK         2255         UTC         3-27         1.60         FT           CARIG AK         2255         UTC         3-27         1.60         FT           CARAGAR BC         2300         UTC         3-27         2.61         FT           LANGARA BC         234         UTC         3-27         2.61         FT           LAPUSH WA         2241         UTC         3-27         1.65         FT           LAPUSH WA         2354         UTC         3-27         1.66         FT           PORT ANGELES WA         2333         UTC         3-27         2.74         FT           PORT ORFORD OR         2333         UTC         3-27         2.74         FT           PORT ORFORD OR         2333         UTC         3-27         5.86         FT           CHARLESTON OR         2333         UTC         3-27         5.86         FT           CRESCENT CITY C					
SHEMYA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       3.74       FT         SITKA AK       2252       UTC       3-27       3.74       FT         LANGARA BC       2300       UTC       3-27       1.60       FT         LANGARA BC       2304       UTC       3-27       2.61       FT         NEXAN BAY       2234       UTC       3-27       2.61       FT         LAPUSH WA       234       UTC       3-27       2.61       FT         LAPUSH WA       2302       UTC       3-27       2.66       FT         DORT ANGELES WA       2354       UTC       3-27       2.66       FT         SARIBALI OR       2355       UTC       3-27       2.66       FT         CHARLESTON OR       2333       UTC       3-27       6.76       FT         CRASCENT CITY CA       0100       UTC       3-28       7.11       FT         PORT ORFORD OR       2313       UTC       3-27       5.76       FT         SAN FRANCISCO       0155       UTC       3-28       3.71       FT         PORT SAN LUIS					
SITKA AK       2222       UTC       3-27       3.74       FT         CRAIG AK       2255       UTC       3-27       3.88       FT         LANGARA BC       2300       UTC       3-27       2.41       FT         VERAL BAY WA       2234       UTC       3-27       2.02       FT         VERAL BAY WA       2234       UTC       3-27       2.01       FT         VERAL BAY WA       2234       UTC       3-27       2.01       FT         VESTPORT WA       2302       UTC       3-27       2.11       FT         VESTPORT WA       2309       UTC       3-27       2.46       FT         SARIBALDI OR       2309       UTC       3-27       2.76       FT         SARTRADCOR       2333       UTC       3-27       2.76       FT         CORT ORFOR OR       2355       UTC       3-27       5.86       FT         CHARLESTON OR       2353       UTC       3-27       5.86       FT         CHARLESTON OR       2353       UTC       3-28       1.11       FT         CHARLESTON OR       2333       UTC       3-27       5.58       FT         SANTA MON					
CRAIG AK       2255       UTC       3-27       3.88       FT         LANGRA BC       2300       UTC       3-27       1.60       FT         LANGRA BC       2300       UTC       3-27       1.60       FT         UDFINO BC       2334       UTC       3-27       2.01       FT         LAPUSH WA       2234       UTC       3-27       2.15       FT         LAPUSH WA       2234       UTC       3-27       2.15       FT         LAPUSH WA       2234       UTC       3-27       2.15       FT         LAPUSH WA       2354       UTC       3-27       1.05       FT         SARIBALDI OR       2259       UTC       3-27       2.46       FT         SARIBALDI OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2333       UTC       3-27       6.76       FT         PERRESCON OR       2333       UTC       3-27       5.78       FT         PORT ORFORD OR       2355       UTC       3-28       7.11       FT         PERESCENT CITY CA       0100       UTC       3-28       1.18       FT         SANT PARNEISCO<					
LANGARA BC 2300 UTC 3-27 1.60 FT TOFINO BC 2334 UTC 3-27 2.41 FT VERAH BAY WA 2234 UTC 3-27 2.02 FT LAPUSH WA 2241 UTC 3-27 3.15 FT VESTPORT WA 2302 UTC 3-27 1.18 FT GARIBALDI OR 2259 UTC 3-27 1.05 FT VEWPORT OR 2309 UTC 3-27 2.46 FT CHARLESTON OR 2333 UTC 3-27 2.46 FT CHARLESTON OR 2355 UTC 3-27 6.76 FT TRENA COVE CA 2313 UTC 3-27 5.58 FT EUREKA CA 0006 UTC 3-28 7.11 FT ARENA COVE CA 2313 UTC 3-27 5.58 FT EUREKA CA 0006 UTC 3-28 3.38 FT SAN FRANCISCO 0155 UTC 3-27 3.97 FT ONT TEYES CA 0142 UTC 3-28 3.38 FT SAN FRANCISCO 0155 UTC 3-27 3.97 FT ONT EREY CA 2338 UTC 3-27 3.97 FT PORT SAN LUIS CA 0141 UTC 3-28 1.84 FT MONTEREY CA 2338 UTC 3-27 3.97 FT ONT SAN LUIS CA 0145 UTC 3-28 3.32 FT SANTA BABARA CA 0145 UTC 3-28 3.32 FT SANTA BABARA CA 0145 UTC 3-28 1.182 FT SANTA BABARA CA 0145 UTC 3-28 3.25 FT SANTA BABARA CA 0145 UTC 3-28 3.5 FT SAN FEDRO CA 0220 UTC 3-28 3.5 FT SAN DIEGO CA 0230 UTC 3-28 3.5 FT SAN DIEGO CA 0214 UTC 3-28 1.74 FT MIDWAY IS 2304 UTC 3-27 1.44 FT MAWILIWILI HI 2338 UTC 3-27 2.20 FT HALEIWA HI 2338 UTC 3-27 2.23 FT CAUGU UTC 3-28 0.33 FT SUM 0321 UTC 3-28 0.30 FT HALEIWA HI 0014 UTC 3-28 0.33 FT SUAM 0321 UTC 3-28 0.33 FT SUAM 0321 UTC 3-28 0.30 FT HALEIWA HI 0052 UTC 3-28 0.33 FT SUAM 0321 UTC 3-28 0.30 FT HALEIWA FT UTC A-20 022 UTC 3-28 0.33 FT SUAM 0321 UTC 3-28 0.30 FT SUAM 0321 UTC 3-28 0.30 FT HALEIWA FT UTC A-28 0.33 FT SUAM 0321 UTC 3-28 0.30 FT HALEIWA FT HE UNE OF MEASUREMENT. LIMINARY EARTHQUAKE PARAMETERS 					
TOFINO BC       2334       UTC       3-27       2.41       FT         VEAH BAY WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.012       FT         NESTPORT WA       2302       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       1.05       FT         SARIBALDI OR       2309       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.74       FT         CHARLESTON OR       2355       UTC       3-27       2.74       FT         CHARLESTON OR       2355       UTC       3-27       5.76       FT         CHARLESTON OR       2355       UTC       3-27       5.76       FT         CHARLESTON OR       2333       UTC       3-27       5.76       FT         CHARLESTON OR       2333       UTC       3-27       5.76       FT         CHARENA CA       0100       UTC       3-28       3.18       FT         SAN FRANCISCO       0155       UTC       3-28       3.32       FT <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
NEAH BAY WA       2234       UTC       3-27       2.02 FT         LAPUSH WA       2241       UTC       3-27       3.15 FT         WESTPORT WA       2302       UTC       3-27       2.11 FT         OPORT ANGELES WA       2354       UTC       3-27       1.38 FT         SARIBALDI OR       2259       UTC       3-27       1.05 FT         VEWPORT OR       2303       UTC       3-27       2.74 6 FT         CHARLESTON OR       2333       UTC       3-27       2.74 6 FT         PORT ORFORD OR       2355       UTC       3-27       6.76 FT         CRESCENT CITY CA       0100       UTC       3-28       7.11 FT         ARENA COVE CA       2313       UTC       3-27       5.58 FT         EUREKA CA       0006       UTC       3-28       1.84 FT         POINT REYES CA       0142       UTC       3-28       1.84 FT         MONTEREY CA       238       UTC       3-28       1.84 FT         SANT AMONICA CA       0145       UTC       3-28       1.84 FT         SAN PEDRO CA       0230       UTC       3-28       1.1 FT         SAN PEDRO CA       0214       UTC       3-27<					
WESTPORT WA       2302       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       1.38       FT         GARIBALDI OR       2259       UTC       3-27       1.05       FT         DEWPORT OR       2309       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.74       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         PORT OR       2313       UTC       3-27       5.58       FT         EUREKA CA       0100       UTC       3-28       4.23       FT         POINT REYES CA       0142       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       3.38       FT         SANTA BARBARA CA       0141       UTC       3-28       1.82       FT         SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA BARBARA CA       0145       UTC       3-28       3.11       FT         SANTA BARBARA CA       0220       UTC       3-28       3.5       FT	NEAH BAY WA	2234			2.02 FT
PORT ANGELES WA       2354       UTC       3-27       1.38 FT         SARIBALDI OR       2259       UTC       3-27       1.05 FT         NEWPORT OR       2309       UTC       3-27       2.46 FT         CHARLESTON OR       2333       UTC       3-27       2.74 FT         PORT ORFORD OR       2355       UTC       3-27       6.76 FT         CRESCENT CITY CA       0100       UTC       3-28       7.11 FT         ARENA COVE CA       2313       UTC       3-27       5.58 FT         EUREKA CA       0060       UTC       3-28       4.23 FT         POINT REYES CA       0142       UTC       3-28       3.71 FT         ALAMEDA CA       0141       UTC       3-28       3.71 FT         POINT REYES CA       0138       UTC       3-28       3.71 FT         ALAMEDA CA       0141       UTC       3-28       3.71 FT         PORT SAN LUIS CA       0108       UTC       3-28       3.71 FT         SANTA MONICA CA       0145       UTC       3-28       3.32 FT         SAN FEDRO CA       0230       UTC       3-28       3.11 FT         LA JOLLA CA       0222       UTC       3	LAPUSH WA	2241			3.15 FT
SARIBALDI OR       2259       UTC       3-27       1.05 FT         NEWPORT OR       2309       UTC       3-27       2.46 FT         CHARLESTON OR       2333       UTC       3-27       2.74 FT         PORT ORFORD OR       2355       UTC       3-27       2.74 FT         CRESCENT CITY CA       0100       UTC       3-28       7.11 FT         ARENA COVE CA       2313       UTC       3-28       7.11 FT         ARENA COVE CA       2313       UTC       3-28       3.38 FT         EUREKA CA       0006       UTC       3-28       3.38 FT         SAN FRANCISCO       0155       UTC       3-28       3.71 FT         MAMEDA CA       0141       UTC       3-28       1.84 FT         MONTEREY CA       2338       UTC       3-27       3.97 FT         PORT SAN LUIS CA       0108       UTC       3-28       1.1.82 FT         SANTA BARBARA CA       0145       UTC       3-28       3.11 FT         LA JOLLA CA       0220       UTC       3-28       3.11 FT         LA JOLLA CA       0222       UTC       3-27       2.20 FT         SAN PEDRO CA       0210       UTC       3-27	WESTPORT WA	2302	UTC		
NEWPORT OR       2309       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2355       UTC       3-27       6.76       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-28       4.23       FT         CUREKA CA       0006       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       1.84       FT         MONTEREY CA       2338       UTC       3-27       3.97       FT         OOTS SAN LUIS CA       0141       UTC       3-28       1.84       FT         SANTA MONICA CA       0145       UTC       3-28       3.12       FT         SANTA MONICA CA       0145       UTC       3-28       4.12       FT         SAN PEDRO CA       0230       UTC       3-28       1.14       FT         LA JOLLA CA       0222       UTC       3-28       1.74       FT      <					
CHARLESTON OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2355       UTC       3-27       6.76       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-27       5.58       FT         EUREKA CA       0006       UTC       3-28       4.23       FT         POINT REYES CA       0142       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       1.84       FT         MONTEREY CA       2338       UTC       3-27       3.97       FT         SANTA BARBARA CA       0145       UTC       3-28       1.82       FT         SANTA MONICA CA       0157       UTC       3-28       3.21       FT         SAN PEDRO CA       0220       UTC       3-28       3.5       FT         SAN DIEGO CA       0214       UTC       3-27       2.20       FT         ANDILA CA       0222       UTC       3-28       1.5       FT         SAN DIEGO CA       0214       UTC       3-27       2.20       FT					
PORT ORFORD OR       2355       UTC       3-27       6.76       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-28       4.23       FT         POINT REYES CA       0142       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       1.84       FT         MONTEREY CA       0141       UTC       3-28       1.84       FT         MONTEREY CA       0138       UTC       3-28       1.82       FT         SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA BARBARA CA       0145       UTC       3-28       3.11       FT         SANTA MONICA CA       0230       UTC       3-28       3.11       FT         SAN DEGO CA       0214       UTC       3-28       1.74       FT         MIDWAY IS       2304       UTC       3-27       2.20       FT         NAWILIWILI HI       238       UTC       3-27       2.23       FT					
CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-27       5.58       FT         EUREKA CA       0006       UTC       3-28       4.23       FT         POINT REYES CA       0142       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       3.71       FT         MONTEREY CA       2338       UTC       3-28       3.71       FT         PORT SAN LUIS CA       0141       UTC       3-28       1.84       FT         MONTEREY CA       2338       UTC       3-28       1.82       FT         SANTA MONICA CA       0145       UTC       3-28       4.12       FT         SANTA MONICA CA       0157       UTC       3-28       4.12       FT         SANTA MONICA CA       0220       UTC       3-28       3.11       FT         SANTA MONICA CA       0222       UTC       3-28       1.14       FT         MANILIWILI HI       2338       UTC       3-27       2.00       FT         MANDILUWI II       238       UTC       3-27       2.20       FT					
ARENA COVE CA       2313       UTC       3-27       5.58       FT         EUREKA CA       0006       UTC       3-28       4.23       FT         POINT REYES CA       0142       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       3.71       FT         ALAMEDA CA       0141       UTC       3-28       1.84       FT         MONTEREY CA       2338       UTC       3-27       3.97       FT         PORT SAN LUIS CA       0108       UTC       3-28       1.82       FT         SANTA BARBARA CA       0145       UTC       3-28       1.82       FT         SANTA MONICA CA       0157       UTC       3-28       3.11       FT         SANTA MONICA CA       0222       UTC       3-28       3.11       FT         SAN PEDRO CA       0230       UTC       3-27       2.06       FT         NAWILIA CA       0222       UTC       3-27       2.20       FT         SAN PEDRO CA       0214       UTC       3-27       2.20       FT         HALEIWA HI       2338       UTC       3-27       2.20       FT					
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SAN PEDRO CA       0230 UTC 3-28       3.11 FT         LA JOLLA CA       0222 UTC 3-28       3.5 FT         SAN DIEGO CA       0214 UTC 3-28       1.74 FT         MIDWAY IS       2304 UTC 3-27       1.44 FT         NAWILIWILI HI       2323 UTC 3-27       2.20 FT         HALEIWA HI       2338 UTC 3-27       2.23 FT         HONOLULU HI       2338 UTC 3-27       2.23 FT         KAHULUI HI       2341 UTC 3-27       7.15 FT         KAHULUI HI       0014 UTC 3-28       0.33 FT         GUAM       0321 UTC 3-28       0.30 FT         PAGO PAGO AM SAMOA       0433 UTC 3-28       0.46 FT         IGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE       TIDE LEVEL AT THE TIME OF MEASUREMENT.         LIMINARY EARTHQUAKE PARAMETERS       9.1         ORIGIN TIME       1050 AKDT MAR 27 2014         DRIGIN TIME       1050 AKDT MAR 27 2014					
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KAWAIHAE HI0014UTC3-282.89FTWAKE ISLAND0052UTC3-280.33FTGUAM0321UTC3-280.30FTPAGO PAGO AM SAMOA0433UTC3-280.46FTIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.LIMINARY EARTHQUAKE PARAMETERSMAGNITUDE9.1 DORIGIN TIME1050AKDT MAR 272014DRIGIN TIME1050AKDT MAR 272014	HONOLULU HI	2338	UTC	3-27	2.23 FT
WAKE ISLAND       0052 UTC 3-28       0.33 FT         GUAM       0321 UTC 3-28       0.30 FT         PAGO PAGO AM SAMOA       0433 UTC 3-28       0.46 FT         IGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.       ABOVE THE TIME OF MEASUREMENT.         LIMINARY EARTHQUAKE PARAMETERS       9.1       ORIGIN TIME       1050 AKDT MAR 27 2014         DRIGIN TIME       1050 PDT MAR 27 2014       1150 PDT MAR 27 2014       0.14	KAHULUI HI				7.15 FT
GUAM       0321       UTC       3-28       0.30       FT         PAGO PAGO AM SAMOA       0433       UTC       3-28       0.46       FT         IGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.       ABOVE THE TIME OF MEASUREMENT.         LIMINARY EARTHQUAKE PARAMETERS					
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1150 PDT MAR 27 2014	MAGNITUDE 9.1				
1850 UTC MAR 27 2014 COORDINATES 55.2 NORTH 156.7 WEST		UIC MAR Z/ ZU			

\* LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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## NTWC Bulletin #16

WEAK51 PAAQ 280901 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 16 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 101 AM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

# WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR ...

\* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

IMPACTS FOR TSUNAMI WARNING AREAS

\* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.

PAC	IFEX 14 Handbook	
* THE FIRST WAVE MAY NOT BE T	HE LARGEST.	
IMPACTS FOR TSUNAMI ADVISORY A	REAS	
* A TSUNAMI CAPABLE OF PRODUC TO PERSONS IN OR VERY NEAR		
* CURRENTS MAY BE HAZARDOUS T STRUCTURES AND MAY CONTINUE ARRIVAL.		
* THE FIRST WAVE MAY NOT BE T	HE LARGEST.	
RECOMMENDED ACTIONS		
* IF YOU ARE IN A WARNING ARE	A - MOVE INLAND TO H	HIGHER GROUND.
* IF YOU ARE IN AN ADVISORY A HARBORS AND MARINAS. WIDES EXPECTED FOR ADVISORY AREAS	PREAD INUNDATION OF	
* BE ALERT TO INSTRUCTIONS FR	OM YOUR LOCAL EMERGE	ENCY OFFICIALS.
* DO NOT GO TO THE COAST TO O	BSERVE THE TSUNAMI.	
* DO NOT RETURN TO THE COAST INDICATE IT IS SAFE TO DO S		Y OFFICIALS
ADDITIONAL OBSERVATIONS OF TSU	NAMI ACTIVITY - UPDA	TED
	 TIME	OBSERVED MAX
SITE	OF MEASUREMENT	TSUNAMI HEIGHT
SAND POINT AK	 1945 UTC 3-27	 11.60 FT
KING COVE AK	2023 UTC 3-27	4.33 FT
CHIGNIK AK	2026 UTC 3-27	21.82 FT
NIKOLSKI AK	2054 UTC 3-27	1.61 FT
UNALASKA AK	2056 UTC 3-27	1.44 FT
KODIAK AK	2100 UTC 3-27	4.50 FT
SEWARD AK Adak ak	2110 UTC 3-27 2145 UTC 3-27	4.11 FT 1.03 FT
ELFIN COVE AK	2143 UTC 3-27	1.32 FT
YAKUTAT AK	2133 UTC 3-27	2.44 FT
PORT ALEXANDER AK	2114 UTC 3-27	1.41 FT
CORDOVA AK	2235 UTC 3-27	1.82 FT
SHEMYA AK	2245 UTC 3-27	0.34 FT
SITKA AK	2222 UTC 3-27	3.74 FT
CRAIG AK	2255 UTC 3-27	3.88 FT
LANGARA BC	2300 UTC 3-27 2334 UTC 3-27	1.60 FT 2.41 FT
TOFINO BC NEAH BAY WA	2334 UTC 3-27 2234 UTC 3-27	2.41 FT 2.02 FT
LAPUSH WA	2234 01C 3-27 2241 UTC 3-27	3.15 FT
WESTPORT WA	2302 UTC 3-27	2.11 FT
PORT ANGELES WA	2354 UTC 3-27	1.38 FT
		82

-	ACIFEX 14	Handb	ook		
GARIBALDI OR	2259	IITC	3-27	1.05 FT	
NEWPORT OR			3-27	2.46 FT	
CHARLESTON OR	2333		3-27	2.74 FT	
PORT ORFORD OR	2355		3-27	6.76 FT	
CRESCENT CITY CA	0100		3-28	7.11 FT	
ARENA COVE CA	2313		3-27	5.58 FT	
EUREKA CA	0006		3-28	4.23 FT	
POINT REYES CA	0142		3-28	4.23 FI 3.38 FT	
SAN FRANCISCO	0155			3.71 FT	
ALAMEDA CA	0133		3-28	1.84 FT	
MONTEREY CA	2338		3-27	3.97 FT	
PORT SAN LUIS CA	0108		3-28	11.82 FT	
SANTA BARBARA CA	0145		3-28	3.32 FT	
SANTA MONICA CA	0143		3-28	4.12 FT	
SANIA MONICA CA SAN PEDRO CA	0137		3-28	4.12 F1 3.11 FT	
LA JOLLA CA	0230		3-28	3.5 FT	
SAN DIEGO CA	0222		3-28	1.74 FT	
SAN DIEGO CA MIDWAY IS	2304				
	2304		3-27 3-27	1.44 FT 2.20 FT	
NAWILIWILI HI HALEIWA HI					
	2338		3-27	4.99 FT	
HONOLULU HI	2338		3-27	2.23 FT	
KAHULUI HI	2341		3-27	7.15 FT	
KAWAIHAE HI	0014		3-28	2.89 FT	
WAKE ISLAND	0052		3-28	0.33 FT	
GUAM PAGO PAGO AM SAMOA	0321		3-28 3-28	0.30 FT 0.46 FT	
TIDE LEVEL AT THE RELIMINARY EARTHQUAKE PARAN	TIME OF M				
RELIMINARY EARTHQUAKE PARA * MAGNITUDE 9.1 * ORIGIN TIME 1050 AKDT 1150 PDT 1850 UTC * COORDINATES 55.2 NORTH * DEPTH 11 MILES * LOCATION 100 MILES	TIME OF M METERS MAR 27 20 MAR 27 20 MAR 27 20 H 156.7 WE	IEASUR 14 14 14 ST GNIK	EMENT. ALASKA		
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TIDE LEVEL AT THE RELIMINARY EARTHQUAKE PARAM * MAGNITUDE 9.1 * ORIGIN TIME 1050 AKDT 1150 PDT 1850 UTC * COORDINATES 55.2 NORTH * DEPTH 11 MILES * LOCATION 100 MILES 485 MILES EXT UPDATE AND ADDITIONAL 3 * THIS MESSAGE WILL BE UPDA * REFER TO THE INTERNET SIS	TIME OF M METERS MAR 27 20 MAR 27 20 MAR 27 20 H 156.7 WE SE OF CHI SW OF ANC INFORMATIC ATED IN 60 FE NTWC.AF S OUTSIDE LUMBIA ANE CENTER MES	14 14 14 23 26 20 20 20 20 20 20 20 20 20 20 20 20 20	EMENT. ALASKA E ALASKA TES. A.GOV FOR ORNIA ( KA SHOULD	MORE DREGON REFER TO THE	
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WEAK51 PAAQ 281000 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 17 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 200 AM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

# IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

# RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF

HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.

- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- $\star$  DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 30 MORE HOURS EAST OF NIKOLSKI AND ALONG THE US AND CANADIAN WEST COAST.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	T OF ME	IME ASURE	MENT	OBSERVED MAX TSUNAMI HEIGHT
SAND POINT AK	1945	UTC	3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK		UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
CORDOVA AK		UTC	3-27	1.82 FT
SHEMYA AK	2245	UTC	3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK	2255	UTC	3-27	3.88 FT
LANGARA BC	2300	UTC	3-27	1.60 FT
TOFINO BC	2334	UTC	3-27	2.41 FT
NEAH BAY WA	2234	UTC	3-27	2.02 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
WESTPORT WA	2302	UTC	3-27	2.11 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR				1.05 FT
NEWPORT OR	2309	UTC	3-27 3-27	2.46 FT
CHARLESTON OR			3-27	2.74 FT
PORT ORFORD OR	2355	UTC	3-27	6.76 FT
CRESCENT CITY CA			3-28	7.11 FT
ARENA COVE CA	2313	UTC	3-27	5.58 FT
EUREKA CA	0006	UTC	3-28	4.23 FT
POINT REYES CA	0142		3-28	3.38 FT
SAN FRANCISCO	0155	UTC	3-28	3.71 FT
ALAMEDA CA	0141	UTC	3-28	1.84 FT
MONTEREY CA	2338	UTC	3-27	3.97 FT
PORT SAN LUIS CA	0108		3-28	11.82 FT
SANTA BARBARA CA	0145	UTC	3-28	3.32 FT
SANTA MONICA CA	0157	UTC	3-28	4.12 FT
SAN PEDRO CA	0230	UTC	3-28	3.11 FT
la jolla ca	0222	UTC	3-28	3.5 FT
SAN DIEGO CA			3-28	1.74 FT

2304	UTC 3-	-27 1.44	l FT
2323	UTC 3-	-27 2.20	) FT
2338	UTC 3-	-27 4.99	) FT
2338	UTC 3-	-27 2.23	B FT
2341	UTC 3-	-27 7.15	5 FT
0014	UTC 3-	-28 2.89	) FT
0052	UTC 3-	-28 0.33	B FT
0321	UTC 3-	-28 0.30	) FT
0433	UTC 3-	-28 0.46	5 FT
	2323 2338 2338 2341 0014 0052 0321	2323 UTC 3- 2338 UTC 3- 2338 UTC 3- 2338 UTC 3- 2341 UTC 3- 0014 UTC 3- 0052 UTC 3- 0321 UTC 3-	2323       UTC       3-27       2.20         2338       UTC       3-27       4.99         2338       UTC       3-27       2.23         2341       UTC       3-27       7.15         0014       UTC       3-28       2.89         0052       UTC       3-28       0.33         0321       UTC       3-28       0.30

 $\mbox{HeIGHT}$  – OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

#### PRELIMINARY EARTHQUAKE PARAMETERS

\* MAGNITUDE 9.1

\* MAGNITUDE

*	ORIGIN	TIME	1050	AKDT	MAR	27	2014
			1150	PDT	MAR	27	2014

- 1850 UTC MAR 27 2014
- \* COORDINATES 55.2 NORTH 156.7 WEST
- \* DEPTH
   \* LOCATION
   100 MILES SE OF CHIGNIK ALASKA
   485 MILES SW OF ANCHORAGE ALASKA

# NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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# NTWC Bulletin #18

WEAK51 PAAQ 281100 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 18 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 300 AM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WA	TCHES		
TSUNAMI WARNING IN EFF	ECT FOR		
	DF CALIFORNIA - OREGON - WA ID ALASKA FROM THE CALIFORN ALASKA		
TSUNAMI ADVISORY IN EF	FECT FOR		
* THE COASTAL AREAS C ALASKA	OF ALASKA FROM NIKOLSKI ALA	SKA TO ATTU	
IMPACTS FOR TSUNAMI WA	ARNING AREAS	0.	
	IS COASTAL FLOODING ACCOMPA E AND MAY CONTINUE FOR MAN		
* THE FIRST WAVE MAY	NOT BE THE LARGEST.		
IMPACTS FOR TSUNAMI AD	DVISORY AREAS		
	OF PRODUCING STRONG CURRENT CRY NEAR THE WATER IS EXPEC		
	ARDOUS TO SWIMMERS BOAT CONTINUE FOR MANY HOURS AF		
* THE FIRST WAVE MAY	NOT BE THE LARGEST.		
RECOMMENDED ACTIONS			
* IF YOU ARE IN A WAP	RNING AREA - MOVE INLAND TO	HIGHER GROUND.	
	DVISORY AREA - MOVE OFF THE 5. WIDESPREAD INUNDATION O DRY AREAS.		
* BE ALERT TO INSTRUC	TIONS FROM YOUR LOCAL EMER	GENCY OFFICIALS.	
* DO NOT GO TO THE CO	DAST TO OBSERVE THE TSUNAMI		
* DO NOT RETURN TO TH INDICATE IT IS SAFE	HE COAST UNTIL LOCAL EMERGE C TO DO SO.	NCY OFFICIALS	
ADDITIONAL OBSERVATION	IS OF TSUNAMI ACTIVITY - UP	DATED	
SITE	OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT	
SAND POINT AK KING COVE AK	1945 UTC 3-27 2023 UTC 3-27	11.60 FT	
		87	

OUT ONTE AV	2026		2 27	
CHIGNIK AK Nikolski ak			3-27 3-27	21.82 FT 1.61 FT
NIKOLSKI AK JNALASKA AK			3-27	1.44 FT
KODIAK AK			3-27	4.50 FT
SEWARD AK			3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK			3-27	1.32 FT
YAKUTAT AK			3-27	2.44 FT
PORT ALEXANDER AK			3-27	1.41 FT
CORDOVA AK			3-27	1.82 FT
SHEMYA AK			3-27 3-27	0.34 FT 3.74 FT
SITKA AK CRAIG AK			3-27	3.88 FT
LANGARA BC			3-27	1.60 FT
TOFINO BC			3-27	2.41 FT
NEAH BAY WA			3-27	2.02 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
NESTPORT WA			3-27	2.11 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR	2259			1.05 FT
NEWPORT OR			3-27	2.46 FT
CHARLESTON OR PORT ORFORD OR	2333 2355		3-27	2.74 FT 6.76 FT
CRESCENT CITY CA			3-28	7.11 FT
ARENA COVE CA		UTC		5.58 FT
EUREKA CA	0006		3-28	4.23 FT
POINT REYES CA	0142	UTC	3-28	3.38 FT
SAN FRANCISCO	0155	UTC	3-28	3.71 FT
ALAMEDA CA			3-28	1.84 FT
MONTEREY CA			3-27	3.97 FT
PORT SAN LUIS CA	0108	UTC		11.82 FT
SANTA BARBARA CA SANTA MONICA CA	0145 0157		3-28	3.32 FT 4.12 FT
SANTA MONICA CA SAN PEDRO CA			3-28 3-28	4.12 F1 3.11 FT
LA JOLLA CA			3-28	3.5 FT
SAN DIEGO CA			3-28	1.74 FT
MIDWAY IS	2304	UTC	3-27	1.44 FT
NAWILIWILI HI	2323	UTC	3-27	2.20 FT
HALEIWA HI			3-27	4.99 FT
HONOLULU HI			3-27	2.23 FT
KAHULUI HI	2341	UTC	3-27	7.15 FT
XAWAIHAE HI	0014	U'I'C	3-28	2.89 FT 0.33 FT
WAKE ISLAND GUAM				
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.30 FT 0.46 FT
	E TIME OF M AMETERS	1EASUR 014 014		LEVEL ABOVE THE
COORDINATES55.2 NOR!DEPTH11 MILESLOCATION100 MILES			ALASKA	

# PACIFEX 14 Handbook 485 MILES SW OF ANCHORAGE ALASKA NEXT UPDATE AND ADDITIONAL INFORMATION \_\_\_\_\_ \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES. \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION. \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV. \$\$ NTWC Bulletin #19 WEAK51 PAAQ 281200 TSUAK1 BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 19 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 400 AM AKDT FRI MAR 28 2014 THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE. ... THE TSUNAMI WARNING REMAINS IN EFFECT... ... THE TSUNAMI ADVISORY REMAINS IN EFFECT... WARNINGS/ADVISORIES/WATCHES \_\_\_\_\_ TSUNAMI WARNING IN EFFECT FOR ... \* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR ... \* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. 89

	PACIFEX 14 Handbook	
MPACTS FOR TSUNAMI ADVIS	ORY AREAS	
* A TSUNAMI CAPABLE OF PI TO PERSONS IN OR VERY I		
* CURRENTS MAY BE HAZARDO STRUCTURES AND MAY CON ARRIVAL.		
* THE FIRST WAVE MAY NOT	BE THE LARGEST.	
ECOMMENDED ACTIONS		
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* IF YOU ARE IN AN ADVIS HARBORS AND MARINAS. T EXPECTED FOR ADVISORY 2	WIDESPREAD INUNDATION	
* BE ALERT TO INSTRUCTION	NS FROM YOUR LOCAL EN	MERGENCY OFFICIALS.
* DO NOT GO TO THE COAST	TO OBSERVE THE TSUNA	AMI.
* DO NOT RETURN TO THE CO INDICATE IT IS SAFE TO		RGENCY OFFICIALS
	DO SO.	UPDATED OBSERVED MAX T TSUNAMI HEIGHT
INDICATE IT IS SAFE TO	DO SO. F TSUNAMI ACTIVITY - TIME OF MEASUREMENT	UPDATED           OBSERVED MAX           TSUNAMI HEIGHT           27           11.60 FT           27           27           27           27           27           27           27           27           27           1.60 FT           27           1.61 FT           27           1.44 FT           27           1.44 FT           27           1.32 FT           27           1.82 FT           27           3.74 FT           27           3.74 FT           27           27           27           27           27           27           27           27           27           288 FT           27
INDICATE IT IS SAFE TO DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA	DO SO. F TSUNAMI ACTIVITY - TIME OF MEASUREMENT 1945 UTC 3-2 2023 UTC 3-2 2026 UTC 3-2 2054 UTC 3-2 2056 UTC 3-2 2100 UTC 3-2 2110 UTC 3-2 2145 UTC 3-2 2132 UTC 3-2 2132 UTC 3-2 2235 UTC 3-2 2245 UTC 3-2 2245 UTC 3-2 2245 UTC 3-2 2255 UTC 3-2 2255 UTC 3-2 234 UTC 3-2 234 UTC 3-2 234 UTC 3-2 2354 UTC	UPDATED           OBSERVED MAX           TSUNAMI HEIGHT           27           11.60 FT           27           28           29           29           20           21.82 FT           27           27           28           27           28           27           28           27           28           27           28           27           28           27           28           27           28           27           28

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CHARLESTON OR			3-27	2.74 FT	
PORT ORFORD OR			3-27	6.76 FT	
CRESCENT CITY CA			3-28		
ARENA COVE CA			3-27 3-28	5.58 FT	
EUREKA CA				4.23 FT	
POINT REYES CA	0142		3-28		
SAN FRANCISCO	0155	UTC	3-28	3.71 FT	
ALAMEDA CA			3-28	1.84 FT	
MONTEREY CA	2338		3-27		
PORT SAN LUIS CA			3-28	11.82 FT	
SANTA BARBARA CA			3-28	3.32 FT	
SANTA MONICA CA	0157		3-28	4.12 FT	
SAN PEDRO CA	0230		3-28	3.11 FT	
LA JOLLA CA			3-28	3.5 FT	
SAN DIEGO CA			3-28	1.74 FT	
MIDWAY IS			3-27	1.44 FT	
NAWILIWILI HI			3-27	2.20 FT	
HALEIWA HI	2338 2338	UTC	3-27	4.99 FT	
HONOLULU HI				2.23 FT	
KAHULUI HI			3-27	7.15 FT	
KAWAIHAE HI			3-28	2.89 FT	
WAKE ISLAND	0052			0.33 FT	
GUAM	0321			0.30 FT	
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.46 FT	
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TIDE LEVEL AT TH RELIMINARY EARTHQUAKE PAR * MAGNITUDE 9.1 * ORIGIN TIME 1050 AKE 1150 PL 1850 UT * COORDINATES 55.2 NOR * DEPTH 11 MILES * LOCATION 100 MILE 485 MILE EXT UPDATE AND ADDITIONAL * THIS MESSAGE WILL BE UF * REFER TO THE INTERNET S INFORMATION. * PACIFIC COASTAL RESIDEN WASHINGTON BRITISH C PACIFIC TSUNAMI WARNING EVENT AT PTWC.WEATHER.G \$ <b>TTWC Bulletin #20</b>	AMETERS AMETERS T MAR 27 20 T MAR 27 20 T MAR 27 20 C MAR 27 C MAR 27	14 14 14 14 14 14 14 14 14 14 14 14 14 1	ALASKA E ALASKA TES. A.GOV FO ORNIA KA SHOUL	R MORE OREGON D REFER TO THE	

TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 20 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 500 AM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR ...

\* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

IMPACTS FOR TSUNAMI WARNING AREAS

\_\_\_\_\_

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

\_\_\_\_\_

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT

BE ALERT TO INSTRUCTIONS	5 FROM YOUR	LOCA	L EMERGE	INCY OFFICIALS.
DO NOT GO TO THE COAST T	O OBSERVE	THE T	SUNAMI.	
DO NOT RETURN TO THE COA INDICATE IT IS SAFE TO E DITIONAL OBSERVATIONS OF	00 SO.			
 ITE		IME ASURE	MENT	OBSERVED MAX TSUNAMI HEIGH
SAND POINT AK	 1945	UTC	3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTĈ	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114		3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK	2245	UTC	3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK	2255	UTC	3-27	3.88 FT
LANGARA BC	2300		3-27	1.60 FT
TOFINO BC			3-27	2.41 FT
NEAH BAY WA	2234		3-27	2.02 FT
LAPUSH WA	2241		3-27	3.15 FT
WESTPORT WA	2302		3-27	2.11 FT
PORT ANGELES WA	2354		3-27	1.38 FT
GARIBALDI OR	2259		3-27	1.05 FT
NEWPORT OR	2309		3-27	2.46 FT
CHARLESTON OR	2333		3-27	2.74 FT
PORT ORFORD OR	2355		3-27	6.76 FT
CRESCENT CITY CA	0100		3-28	7.11 FT
ARENA COVE CA	2313		3-27	5.58 FT
EUREKA CA	0006		3-28	4.23 FT
POINT REYES CA	0142		3-28	3.38 FT
SAN FRANCISCO	0155	UTC	3-28	3.71 FT
ALAMEDA CA	0141	UTC	3-28	1.84 FT
MONTEREY CA PORT SAN LUIS CA	2338 0108	UTC	3-27 3-28	3.97 FT 11.82 FT
		UTC		
SANTA BARBARA CA	0145	UTC	3-28	3.32 FT
SANTA MONICA CA SAN PEDRO CA	0157 0230	UTC UTC	3-28 3-28	4.12 FT 3.11 FT
LA JOLLA CA	0230	UTC	3-28	3.5 FT
SAN DIEGO CA	0222	UTC	3-28	1.74 FT
MIDWAY IS	2304	UTC	3-28	1.44 FT
NAWILIWILI HI	2304	UTC	3-27	2.20 FT
HALEIWA HI	2323	UTC	3-27	2.20 FI 4.99 FT
HALEIWA HI HONOLULU HI	2338	UTC	3-27	4.99 F1 2.23 FT
TIOTIOTIO IIT	2000	O T C	J 41	2.2J LT

KAWAIHAE HI	0014 UTC	3-28	2.89 FT
WAKE ISLAND	0052 UTC	3-28	0.33 FT
GUAM	0321 UTC	3-28	0.30 FT
PAGO PAGO AM SAMOA	0433 UTC	3-28	0.46 FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

PRELIMINARY EARTHQUAKE PARAMETERS

-	-	-	-			-	-	-				 	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	MAGNIIC		9.I					
*	ORIGIN	TIME	1050	AKDT	MAR	27	2014	
			1150	PDT	MAR	27	2014	
			1850	UTC	MAR	27	2014	

*	COORDINATES	55.2	2	NORTH	156	. 7	WEST
*	DEPTH	11 1	ΜI	LES			

\* LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION

\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.

- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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## NTWC Bulletin #21

WEAK51 PAAQ 281401 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 21 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 601 AM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

...THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

PA	ACIFEX 14 Handbook		
* THE COASTAL AREAS OF CALI BRITISH COLUMBIA AND ALAS BORDER TO NIKOLSKI ALASKA	KA FROM THE CALIFORNIA		
TSUNAMI ADVISORY IN EFFECT F	OR		
* THE COASTAL AREAS OF ALAS ALASKA	KA FROM NIKOLSKI ALASH	ka to attu	
IMPACTS FOR TSUNAMI WARNING	AREAS		
* WIDESPREAD DANGEROUS COAS CURRENTS IS POSSIBLE AND TSUNAMI ARRIVAL.			
* THE FIRST WAVE MAY NOT BE	THE LARGEST.		
IMPACTS FOR TSUNAMI ADVISORY	AREAS		
* A TSUNAMI CAPABLE OF PROD TO PERSONS IN OR VERY NEA			
* CURRENTS MAY BE HAZARDOUS STRUCTURES AND MAY CONTIN ARRIVAL.			
* THE FIRST WAVE MAY NOT BE	THE LARGEST.		
RECOMMENDED ACTIONS			
* IF YOU ARE IN A WARNING A	REA - MOVE INLAND TO P	HIGHER CROUND	
* IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WID EXPECTED FOR ADVISORY ARE	AREA - MOVE OFF THE F ESPREAD INUNDATION OF	BEACH AND OUT OF	
* BE ALERT TO INSTRUCTIONS	FROM YOUR LOCAL EMERGE	ENCY OFFICIALS.	
* DO NOT GO TO THE COAST TO	OBSERVE THE TSUNAMI.		
* DO NOT RETURN TO THE COAS INDICATE IT IS SAFE TO DO		CY OFFICIALS	
ADDITIONAL OBSERVATIONS OF T			
SITE	TIME OF MEASUREMENT	OBSERVED MAX	
SAND POINT AK			
KING COVE AK	2023 UTC 3-27 2026 UTC 3-27	4.33 FT	
CHIGNIK AK NIKOLSKI AK	2026 UTC 3-27 2054 UTC 3-27		
		95	

	PA	CIFEX 14	Handb	ook	
				2 27	1 4 4 1217
UNALASKA AK KODIAK AK		2056 2100		3-27	1.44 FT 4.50 FT
SEWARD AK		2100		3-27 3-27	4.50 FT 4.11 FT
ADAK AK		2110		3-27	4.11 F1 1.03 FT
ELFIN COVE AK		2145		3-27	1.32 FT
YAKUTAT AK		2133		3-27	2.44 FT
PORT ALEXANDE	ס אע	2132		3-27	1.41 FT
CORDOVA AK	N AN	2235		3-27	1.41 FI 1.82 FT
SHEMYA AK		2245		3-27	0.34 FT
SITKA AK		2222		3-27	3.74 FT
CRAIG AK		2255		3-27	3.88 FT
LANGARA BC		2300		3-27	1.60 FT
TOFINO BC		2334		3-27	2.41 FT
NEAH BAY WA		2234	UTC	3-27	2.02 FT
LAPUSH WA		2241	UTC	3-27	3.15 FT
WESTPORT WA		2302		3-27	2.11 FT
PORT ANGELES	AW	2354	UTC	3-27	1.38 FT
GARIBALDI OR		2259		3-27	1.05 FT
NEWPORT OR		2309		3-27	2.46 FT
CHARLESTON OR		2333		3-27	2.74 FT
PORT ORFORD O		2355		3-27	6.76 FT
CRESCENT CITY		0100		3-28	7.11 FT
ARENA COVE CA		2313		3-27	5.58 FT
EUREKA CA	_	0006		3-28	4.23 FT
POINT REYES C.		0142	UTC	3-28	3.38 FT
SAN FRANCISCO		0155	UTC		3.71 FT
ALAMEDA CA		0141		3-28	1.84 FT
MONTEREY CA PORT SAN LUIS	CD	2338 0108		3-27 3-28	3.97 FT 11.82 FT
SANTA BARBARA		0108	UTC		3.32 FT
SANTA MONICA		0143		3-28	4.12 FT
SAN PEDRO CA	011	0230		3-28	3.11 FT
LA JOLLA CA		0222	UTC		3.5 FT
SAN DIEGO CA		0214		3-28	1.74 FT
MIDWAY IS		2304		3-27	1.44 FT
NAWILIWILI HI		2323	UTC	3-27	2.20 FT
HALEIWA HI		2338	UTC	3-27	4.99 FT
HONOLULU HI		2338	UTC	3-27	2.23 FT
KAHULUI HI		2341	UTC	3-27	7.15 FT
KAWAIHAE HI		0014	UTC		2.89 FT
WAKE ISLAND		0052	UTC	3-28	0.33 FT
GUAM				3-28	
PAGO PAGO AM	SAMOA	0433	UTC	3-28	0.46 FT
TIDE L	EVEL AT THE T	TIME OF M			LEVEL ABOVE THE
	0 1				
MAGNITUDE ORIGIN TIME		12 P 27 20	14		
OUTGIN IINE	1050 ARDI P 1150 PDT N				
	1850 UTC N				
COORDINATES					
DEPTH	11 MILES	ML			
LOCATION					
					96

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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## NTWC Bulletin #22

WEAK51 PAAQ 281500 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 22 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 700 AM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

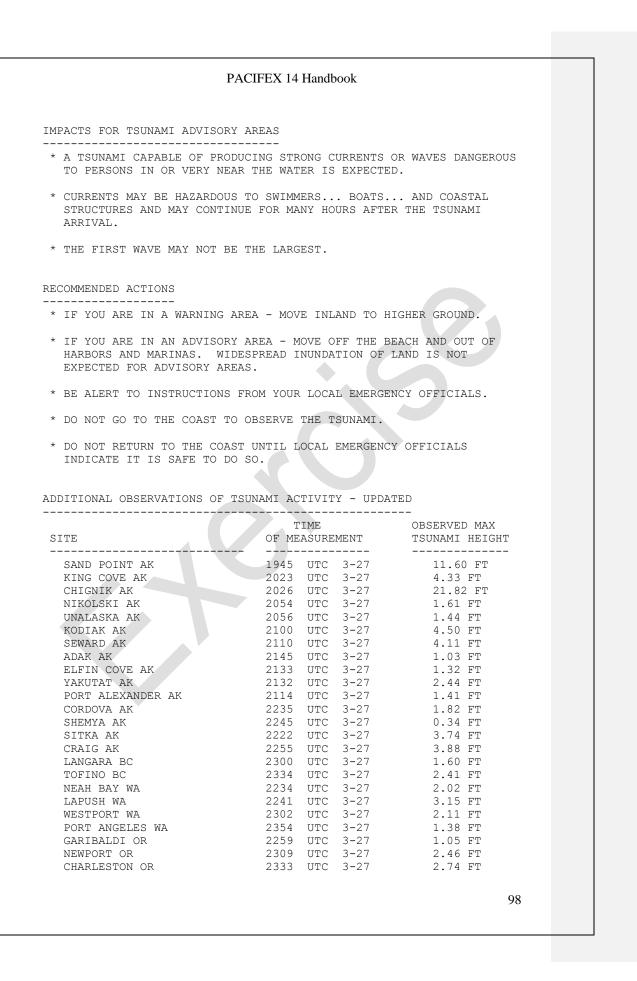
\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.



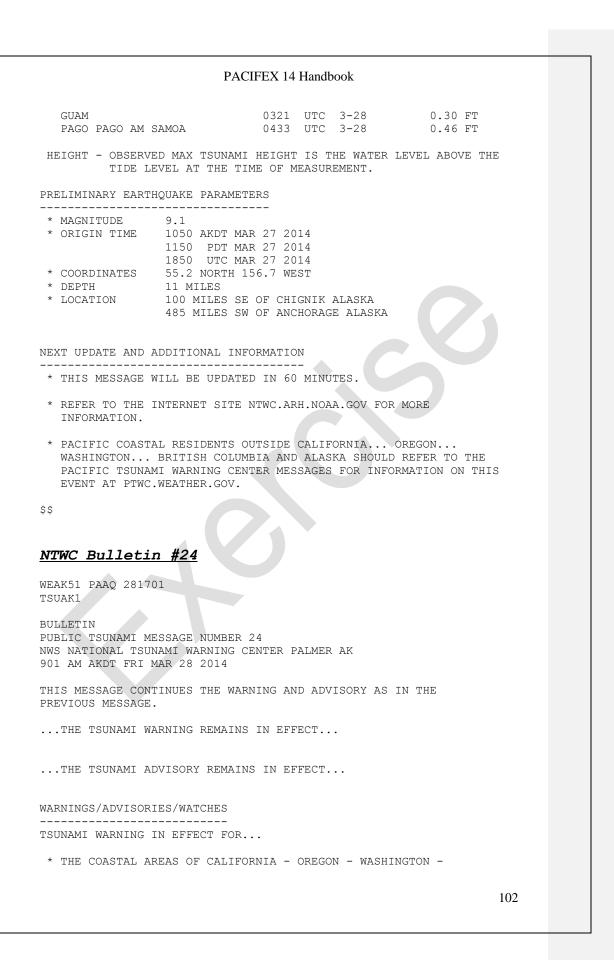
PORT ORFORD OR CRESCENT CITY CA ARENA COVE CA EUREKA CA POINT REYES CA SAN FRANCISCO ALAMEDA CA MONTEREY CA PORT SAN LUIS CA	0100 2313 0006 0142 0155 0141	UTC UTC	3-27 3-28 3-27	7.11 FT	
ARENA COVE CA EUREKA CA POINT REYES CA SAN FRANCISCO ALAMEDA CA MONTEREY CA PORT SAN LUIS CA	0100 2313 0006 0142 0155 0141	UTC UTC	3-28	7.11 FT	
EUREKA CA POINT REYES CA SAN FRANCISCO ALAMEDA CA MONTEREY CA PORT SAN LUIS CA	0006 0142 0155 0141		3-27		
POINT REYES CA SAN FRANCISCO ALAMEDA CA MONTEREY CA PORT SAN LUIS CA	0142 0155 0141	UTC		5.58 FT	
SAN FRANCISCO ALAMEDA CA MONTEREY CA PORT SAN LUIS CA	0142 0155 0141		3-28	4.23 FT 3.38 FT	
ALAMEDA CA MONTEREY CA PORT SAN LUIS CA	0141		3-28	3.38 FT	
MONTEREY CA PORT SAN LUIS CA	0141	UTC	3-28	3.71 FT	
PORT SAN LUIS CA		UTC	3-28	1.84 FT	
	2338	UTC	3-27	3.97 FT	
				11.82 FT	
SANTA BARBARA CA			3-28	3.32 FT	
SANTA MONICA CA	0157	UTC	3-28 3-28	4.12 FT	
SAN PEDRO CA LA JOLLA CA			3-28	3.11 FT 3.5 FT	
SAN DIEGO CA			3-28		
MIDWAY IS			3-27	1 44 57	
NAWILIWILI HI			3-27	1.74 FT 1.44 FT 2.20 FT	
HALEIWA HI			3-27	4.99 FT	
HONOLULU HI			3-27	2.23 FT	
KAHULUI HI			3-27	7.15 FT	
KAWAIHAE HI	0014	UTC	3-28	2.89 FT	
WAKE ISLAND	0052	UTC	3-28	0.33 FT	
GUAM	0321			0.30 FT	
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.46 FT	
	ILES SE OF CHI ILES SW OF ANC NAL INFORMATIC	HORAG	E ALASKA		
REFER TO THE INTERNE				MORE	
INFORMATION.					
PACIFIC COASTAL RESI WASHINGTON BRITIS PACIFIC TSUNAMI WARN EVENT AT PTWC.WEATHE	H COLUMBIA AND ING CENTER MES	ALAS	KA SHOULD	REFER TO THE	
WC Bulletin #23					
AK51 PAAQ 281601 JAK1					
				99	

# PACIFEX 14 Handbook BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 23 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 801 AM AKDT FRI MAR 28 2014 THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE. ... THE TSUNAMI WARNING REMAINS IN EFFECT... ... THE TSUNAMI ADVISORY REMAINS IN EFFECT... WARNINGS/ADVISORIES/WATCHES \_\_\_\_\_ TSUNAMI WARNING IN EFFECT FOR ... \* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON · BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR ... \* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA IMPACTS FOR TSUNAMI WARNING AREAS -----\* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS \_\_\_\_\_ \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. 100

- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

ITE	OF ME	'IME ASURE		OBSERVED MAX TSUNAMI HEIGH
SAND POINT AK		UTC	3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145		3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114		3-27	1.41 FT
CORDOVA AK	2235		3-27	1.82 FT
SHEMYA AK	2245		3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK			3-27	3.88 FT
LANGARA BC			3-27	1.60 FT
TOFINO BC			3-27	2.41 FT
NEAH BAY WA			3-27	2.02 FT
LAPUSH WA			3-27	3.15 FT
WESTPORT WA			3-27	2.11 FT
PORT ANGELES WA			3-27	1.38 FT
GARIBALDI OR			3-27	1.05 FT
NEWPORT OR			3-27	2.46 FT
CHARLESTON OR			3-27	2.74 FT
PORT ORFORD OR			3-27	6.76 FT
CRESCENT CITY CA			3-28	7.11 FT
ARENA COVE CA			3-27	5.58 FT
EUREKA CA			3-28	4.23 FT
POINT REYES CA			3-28	3.38 FT
SAN FRANCISCO			3-28	3.71 FT
ALAMEDA CA	0133		3-28	1.84 FT
MONTEREY CA			3-27	3.97 FT
PORT SAN LUIS CA	0108		3-28	11.82 FT
SANTA BARBARA CA			3-28	3.32 FT
SANTA MONICA CA	0157			4.12 FT
SAN PEDRO CA			3-28	3.11 FT
LA JOLLA CA		UTC		3.5 FT
SAN DIEGO CA			3-28	1.74 FT
MIDWAY IS			3-27	1.44 FT
NAWILIWILI HI			3-27	2.20 FT
HALEIWA HI			3-27	2.20 FI 4.99 FT
HONOLULU HI			3-27	4.99 FI 2.23 FT
KAHULUI HI			3-27	2.23 FI 7.15 FT
KAWAIHAE HI			3-28	2.89 FT
WAKE ISLAND		UTC		0.33 FT
WARE ISLAND	0052	UIC	5-20	0.33 FI



# PACIFEX 14 Handbook BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR... \* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \_\_\_\_\_ \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED \_\_\_\_\_ TIME OBSERVED MAX TSUNAMI HEIGHT SITE OF MEASUREMENT \_\_\_\_\_ \_\_\_\_\_ 11.60 FT SAND POINT AK 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 KING COVE AK 4.33 FT 21.82 FT CHIGNIK AK 2054 UTC 3-27 NIKOLSKI AK 1.61 FT 2056 UTC 3-27 2100 UTC 3-27 UNALASKA AK 1.44 FT 4.50 FT KODIAK AK 103

ORIGIN TIME         1050 AKDT MAR 27 2014           1150 PDT MAR 27 2014           1850 UTC MAR 27 2014           55.2 NORTH 156.7 WEST		PAC	IFEX 14	Handb	ook	
ADAK AK         2145         UTC 3-27         1.03         FT           ELFIN COVE AK         213         UTC 3-27         1.32         FT           YAKUTAT AK         213         UTC 3-27         1.41         FT           CORDOVA AK         2235         UTC 3-27         1.41         FT           SHEMYA AK         2245         UTC 3-27         1.34         FT           SHEMYA AK         2245         UTC 3-27         1.34         FT           CRAIG AK         2236         UTC 3-27         1.60         FT           CRAIG AK         2234         UTC 3-27         2.41         FT           LANCARA BC         2334         UTC 3-27         2.15         FT           LAPUSH WA         2241         UTC 3-27         2.16         FT           PORT ANGRESIS WA         2354         UTC 3-27         2.46         FT           PORT ANGROND OR         2333         UTC 3-27         2.46         FT           PORT ORGPOD OR         2335         UTC 3-27         2.46         FT           PORT ORGPOD OR         2333         UTC 3-28         3.38         FT           SAN FRANCISCO         0.155         UTC 3-28         3.38	CEMADD AV		2110	τıπο	3_27	۸ <u>11</u> דית
BLFIN COVE AK         2133         UTC 3-27         1.32         FT           YARUTAT AK         2132         UTC 3-27         2.44         FT           CORDOVA AK         2235         UTC 3-27         1.41         FT           CORDOVA AK         2235         UTC 3-27         1.42         FT           SITKA AK         2245         UTC 3-27         1.43         FT           CARAGARA         2225         UTC 3-27         1.60         FT           TOFINO BC         2330         UTC 3-27         2.11         FT           VBESTFORT WA         2241         UTC 3-27         2.15         FT           VBESTFORT WA         2234         UTC 3-27         2.15         FT           VBESTFORT WA         2302         UTC 3-27         1.05         FT           VBESTFORT WA         2302         UTC 3-27         1.05         FT           VBESTFORT WA         2302         UTC 3-27         1.05         FT           VESTFORT WA         2302         UTC 3-27         2.46         FT           PORT ANGELES WA         2302         UTC 3-28         1.1         FT           RENA COVE CA         2313         UTC 3-28         3.1						
VARUTAT AK         2132         UTC 3-27         2.44         FT           PORT ALEXANDER AK         2114         UTC 3-27         1.41         FT           CCRNOVA AK         2235         UTC 3-27         1.82         FT           SHENYA AK         2245         UTC 3-27         1.82         FT           SHENYA AK         2225         UTC 3-27         1.84         FT           CRAIG AK         2255         UTC 3-27         3.74         FT           LANGARA BC         2300         UTC 3-27         2.41         FT           LANGARA BC         2334         UTC 3-27         2.15         FT           NEAR BAY WA         2241         UTC 3-27         2.16         FT           PORT ANGELSS WA         2354         UTC 3-27         2.66         FT           CHARLESTON OR         2333         UTC 3-27         2.76         FT           PORT ORFORD OR         2333         UTC 3-27         6.76         FT           CRESCEN CITY CA         0100         UTC 3-28         3.38         FT           SAN FRANCISCO         0155         UTC 3-28         3.32         FT           SANT AMONICA CA         0141         UTC 3-28						
PORT ALEXANDER AK       2114 UTC 3-27       1.41 FT         CORDOVA AK       2225 UTC 3-27       1.62 FT         SHEMYA AK       2225 UTC 3-27       3.74 FT         CRAIG AK       2225 UTC 3-27       3.74 FT         CARAGARA BC       2300 UTC 3-27       1.60 FT         TOFINO BC       2334 UTC 3-27       2.01 FT         NEAH BAY WA       2241 UTC 3-27       2.02 FT         LANCARAB BC       2302 UTC 3-27       2.01 FT         WESTFORT WA       2234 UTC 3-27       1.05 FT         WESTFORT WA       2332 UTC 3-27       2.04 FT         CARLEDLO R       2339 UTC 3-27       2.04 FT         PORT ANGELES WA       2334 UTC 3-27       2.04 FT         PORT ORFORD OR       2333 UTC 3-27       2.04 FT         PORT ORFORD OR       2333 UTC 3-27       6.76 FT         PORT REVES CA       0100 UTC 3-28       3.71 FT         ARENA COVE CA       2313 UTC 3-27       5.58 FT         EURKA CA       0006 UTC 3-28       3.71 FT         ALAMEDA CA       0142 UTC 3-28       3.71 FT         ALAMEDA CA       0142 UTC 3-28       3.71 FT         SANTA BARBARA CA       0142 UTC 3-28       3.71 FT         SANTA BARBARA CA       0142 UTC 3-2						
CORDUA AK       2235       UTC       3-27       1.62       FT         SHEMYA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       3.74       FT         LANGARA BC       2230       UTC       3-27       3.68       FT         TOFINO BC       2334       UTC       3-27       2.61       FT         NEAH BAY WA       2234       UTC       3-27       2.64       FT         NEAH BAY WA       2234       UTC       3-27       2.66       FT         OPORT ANGELES WA       2354       UTC       3-27       1.68       FT         NEWPORT OR       2309       UTC       3-27       1.66       FT         CRARLESTON OR       2333       UTC       3-27       2.64       FT         PORT ANGELES WA       2354       UTC       3-27       5.66       FT         CRARLESTON OR       2333       UTC       3-27       5.58       FT         CRARLESTON OR       2333       UTC       3-28       3.31       FT         POIT SANCISCO       0152       UTC       3-28       3.32       FT         SANTE M		R AK				
SHEWA AK       2245       UTC 3-27       0.34       FT         SITKA AK       2222       UTC 3-27       3.68       FT         LANGARA BC       2300       UTC 3-27       3.68       FT         LANGARA BC       2304       UTC 3-27       2.64       FT         NEAH BAY WA       2234       UTC 3-27       2.61       FT         NESTFORT WA       2334       UTC 3-27       2.11       FT         OFT ANGELES WA       2355       UTC 3-27       1.05       FT         PORT ANGELES WA       2354       UTC 3-27       1.05       FT         NEMPORT OR       2309       UTC 3-27       2.66       FT         CHARLESTON OR       2333       UTC 3-27       7.67       FT         PORT OFFORD OR       2355       UTC 3-27       7.68       FT         PORT OFFORD OR       2355       UTC 3-28       4.23       FT         POINT REVES CA       0142       UTC 3-28       3.81       FT         SAN FRANCISCO       0155       UTC 3-28       1.82       FT         SANT RARBARA CA       0141       UTC 3-28       1.82       FT         SANTA MONICA CA       0122       UTC 3-28       3.51<						
CRAIG AK       2255       UTC 3-27       1.60       FT         LANGARA BC       2300       UTC 3-27       1.60       FT         TOFINO BC       2334       UTC 3-27       2.41       FT         NEAH BAY WA       2234       UTC 3-27       2.11       FT         DEPUS WA       2241       UTC 3-27       1.15       FT         GREBALDI OR       2259       UTC 3-27       1.05       FT         OPOT ANGELES WA       2354       UTC 3-27       2.46       FT         CHARLESTON OR       2333       UTC 3-27       2.46       FT         CRESCENT CITY CA       0100       UTC 3-27       6.76       FT         PORT ORFORD OR       2355       UTC 3-27       5.58       FT         PORT ORFORD OR       2355       UTC 3-28       7.11       FT         ARENA COVE CA       2131       UTC 3-28       3.81       FT         SAN FRANCISCO       0155       UTC 3-28       3.61       FT         SANT BARBARA CA       0141       UTC 3-28       1.182       FT         SANT BARBARA CA       0145       UTC 3-28       3.11       FT         SAN FEDRO CA       0230       UTC 3-28       3.						
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NEAH BAY WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       3.15       FT         WESTFORT WA       2302       UTC       3-27       1.18       FT         PORT ANGELES WA       2354       UTC       3-27       1.05       FT         NEWPORT OR       2309       UTC       3-27       2.04       FT         ORT ANGELES WA       2355       UTC       3-27       2.04       FT         ORTOR OR       2333       UTC       3-27       2.04       FT         ORTOROROR       2335       UTC       3-27       5.58       FT         ARENA COVE CA       2313       UTC       3-28       7.11       FT         ARENA CA       0006       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       1.84       FT         MONTEREY CA       238       UTC       3-27       3.97       FT         SANTA BARBARA CA       0145       UTC       3-28       1.182       FT         SANTA BARBARA CA       0145       UTC       3-28       1.127       SANTA BARBARA CA       0145 <td>LANGARA BC</td> <td></td> <td>2300</td> <td>UTC</td> <td>3-27</td> <td>1.60 FT</td>	LANGARA BC		2300	UTC	3-27	1.60 FT
LAPUSH WA       2241       UTC       3-27       3.15       FT         WESTPORT WA       2302       UTC       3-27       1.15       FT         GARIBALDI OR       2259       UTC       3-27       1.05       FT         NEWPORT OR       2309       UTC       3-27       2.16       FT         NEWPORT OR       2333       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       6.76       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       3.71       FT         ALAMEDA CA       0141       UTC       3-28       3.81       FT         SAN FRANCISCO       0155       UTC       3-28       3.21       FT         SANTA BARBARA CA       0145       UTC       3-28       3.21       FT         SANTA BARBARA CA       0157       UTC       3-28       3.5       FT         SAN FEABARDA CA       0230       UTC       3-27       2.20       FT						
WESTFORT WA         2302         UTC         3-27         2.11         FT           PORT ANGELES WA         2354         UTC         3-27         1.38         FT           GARIBALDI OR         2259         UTC         3-27         1.05         FT           NEWPORT OR         2309         UTC         3-27         2.46         FT           CHARLESTON OR         2333         UTC         3-27         2.74         FT           PORT ORFORD OR         2355         UTC         3-27         5.58         FT           PORT ORFORD OR         2313         UTC         3-27         5.58         FT           PORT ORFORD OR         2313         UTC         3-28         7.11         FT           ARENA CA         0006         UTC         3-28         3.38         FT           SAN FRANCISCO         0155         UTC         3-28         1.84         FT           MONTEREY CA         2338         UTC         3-28         1.18         FT           SANTA BARBAR CA         0145         UTC         3-28         3.2         FT           SANTA BARBARA CA         0145         UTC         3-28         3.11         FT <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
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104	EXT UPDATE AND .	ADDITIONAL INF	ORMATIC	N		

\* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.

- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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### NTWC Bulletin #25

WEAK51 PAAQ 281801 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 25 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1001 AM AKDT FRI MAR 28 2014

THIS MESSAGE REDUCES THE WARNING FOR SOME AREAS IN SOUTHERN CALIFORNIA TO AN ADVISORY.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

\* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./ TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./
- \* THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

#### IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

Р	ACIFEX 14 Handbook	
IMPACTS FOR TSUNAMI ADVISORY	/ ADEAS	
* A TSUNAMI CAPABLE OF PROI TO PERSONS IN OR VERY NEA		
* CURRENTS MAY BE HAZARDOUS STRUCTURES AND MAY CONTIN ARRIVAL.		
* THE FIRST WAVE MAY NOT BE	THE LARGEST.	
RECOMMENDED ACTIONS		
* IF YOU ARE IN A WARNING A	AREA - MOVE INLAND '	TO HIGHER GROUND.
* IF YOU ARE IN AN ADVISORY HARBORS AND MARINAS. WII EXPECTED FOR ADVISORY ARE	DESPREAD INUNDATION	
* BE ALERT TO INSTRUCTIONS	FROM YOUR LOCAL EM	ERGENCY OFFICIALS.
* DO NOT GO TO THE COAST TO	) OBSERVE THE TSUNA	MI.
* DO NOT RETURN TO THE COAS INDICATE IT IS SAFE TO DO ADDITIONAL OBSERVATIONS OF T	) SO.	
SITE	TIME OF MEASUREMENT	
SAND POINT AK	1945 UTC 3-2	
KING COVE AK	2023 UTC 3-2	
CHIGNIK AK	2026 UTC 3-2	
NIKOLSKI AK UNALASKA AK	2054 UTC 3-2 2056 UTC 3-2	
KODIAK AK	2100 UTC 3-2	
SEWARD AK	2110 UTC 3-2	
ADAK AK	2145 UTC 3-2	7 1.03 FT
ELFIN COVE AK	2133 UTC 3-2	
YAKUTAT AK	2132 UTC 3-2	
PORT ALEXANDER AK	2114 UTC 3-2 2235 UTC 3-2	
CORDOVA AK Shemya ak	2235 UTC 3-2 2245 UTC 3-2	
SITKA AK	2245 UIC 3-2 2222 UTC 3-2	
CRAIG AK	2255 UTC 3-2	
LANGARA BC	2300 UTC 3-2	
TOFINO BC	2334 UTC 3-2	
NEAH BAY WA	2234 UTC 3-2	
LAPUSH WA	2241 UTC 3-2	
WESTPORT WA PORT ANGELES WA	2302 UTC 3-2 2354 UTC 3-2	
GARIBALDI OR	2259 UTC 3-2	
NEWPORT OR	2309 UTC 3-2	
		106
		100

	PAC	CIFEX 14	Handb	ook	
		0000		2 07	
CHARLESTON OR				3-27	
PORT ORFORD OF				3-27 3-28	6.76 FT
CRESCENT CITY					7.11 FT
ARENA COVE CA				3-27	5.58 FT
EUREKA CA				3-28 3-28	4.23 FT
POINT REYES CA					
SAN FRANCISCO ALAMEDA CA				3-28 3-28	3.71 FT 1.84 FT
MONTEREY CA				3-27	
PORT SAN LUIS				3-28	11.82 FT
SANTA BARBARA				3-28	3.32 FT
SANTA MONICA (				3-28	4.12 FT
SAN PEDRO CA	<i></i>			3-28	3.11 FT
LA JOLLA CA				3-28	3.5 FT
SAN DIEGO CA				3-28	1.74 FT
MIDWAY IS				3-27	1.44 FT
NAWILIWILI HI		2323			2.20 FT
HALEIWA HI		2338			4.99 FT
HONOLULU HI				3-27	2.23 FT
KAHULUI HI		2341	UTC	3-27	7.15 FT
KAWAIHAE HI				3-28	2.89 FT
WAKE ISLAND		0052	UTC	3-28	0.33 FT
GUAM		0321	UTC	3-28	0.30 FT
PAGO PAGO AM S	SAMOA	0433	UTC	3-28	0.46 FT
* COORDINATES * DEPTH * LOCATION	1850 UTC MA 55.2 NORTH 1 11 MILES 100 MILES SE 485 MILES SW	56.7 WE OF CHI	ST GNIK		
	ADDITIONAL INF	ORMATIO	N _		
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EXT UPDATE AND A * THIS MESSAGE W * REFER TO THE I INFORMATION. * PACIFIC COASTA WASHINGTON	VILL BE UPDATE INTERNET SITE AL RESIDENTS C BRITISH COLUM 41 WARNING CEN	D IN 60 NTWC.AR WTSIDE IBIA AND	- MINU H.NOA CALIF ALAS	A.GOV FO ORNIA KA SHOUL	
<ul> <li>EXT UPDATE AND A</li> <li>* THIS MESSAGE W</li> <li>* REFER TO THE I INFORMATION.</li> <li>* PACIFIC COASTA WASHINGTON PACIFIC TSUNAM EVENT AT PTWC.</li> </ul>	VILL BE UPDATE INTERNET SITE AL RESIDENTS C BRITISH COLUM 41 WARNING CEN	D IN 60 NTWC.AR WTSIDE IBIA AND	- MINU H.NOA CALIF ALAS	A.GOV FO ORNIA KA SHOUL	OREGON D REFER TO THE
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<ul> <li>EXT UPDATE AND A</li> <li>* THIS MESSAGE W</li> <li>* REFER TO THE I INFORMATION.</li> <li>* PACIFIC COASTA WASHINGTON PACIFIC TSUNAM EVENT AT PTWC.</li> <li>\$</li> <li>TTWC Bulletin EAK51 PAAQ 28190</li> </ul>	VILL BE UPDATE INTERNET SITE AL RESIDENTS C BRITISH COLUM AI WARNING CEN .WEATHER.GOV.	D IN 60 NTWC.AR WTSIDE IBIA AND	- MINU H.NOA CALIF ALAS	A.GOV FO ORNIA KA SHOUL	OREGON D REFER TO THE
<ul> <li>EXT UPDATE AND F</li> <li>* THIS MESSAGE W</li> <li>* REFER TO THE I INFORMATION.</li> <li>* PACIFIC COASTF WASHINGTON PACIFIC TSUNAM EVENT AT PTWC.</li> <li>\$</li> <li>TTWC Bulletin</li> </ul>	VILL BE UPDATE INTERNET SITE AL RESIDENTS C BRITISH COLUM AI WARNING CEN .WEATHER.GOV.	D IN 60 NTWC.AR WTSIDE IBIA AND	- MINU H.NOA CALIF ALAS	A.GOV FO ORNIA KA SHOUL	OREGON D REFER TO THE

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 26 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1102 AM AKDT FRI MAR 28 2014

THIS MESSAGE REDUCES THE TSUNAMI WARNING TO A TSUNAMI ADVISORY FOR AREAS OF SOUTHERN ALASKA/ BRITISH COLUMBIA AND WASHINGTON. THE TSUNAMI ADVISORY FOR THE WESTERN ALEUTIANS IS CANCELLED.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES - UPDATED3.32

\_\_\_\_\_

TSUNAMI WARNING IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA AND OREGON FROM SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./ TO THE OREGON-WASHINGTON BORDER
- \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO NIKOLSKI ALASKA

#### TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./
- \* THE COASTAL AREAS OF WASHINGTON BRITISH COLUMBIA AND ALASKA FROM THE OREGON-WASHINGTON BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/

# CANCELLATIONS

\* THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS OF ALASKA FROM NIKOLSKI ALASKA TO ATTU ALASKA

IMPACTS FOR TSUNAMI WARNING AREAS

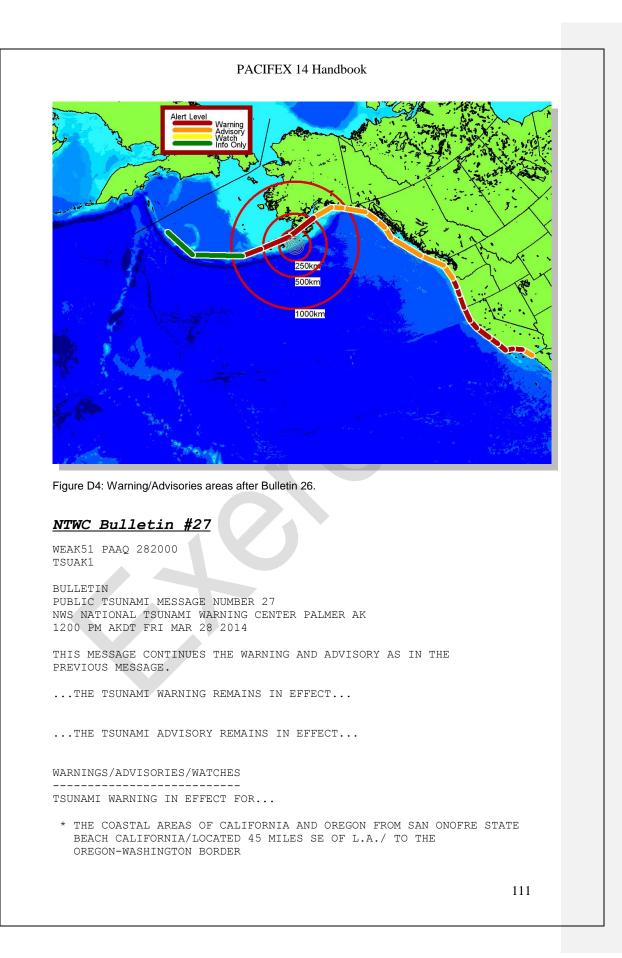
- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

\* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.

STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. THE FIRST WAVE MAY NOT BE THE LARGEST. COMMENDED ACTIONS IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. CONFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT. DDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED TIME OBSERVED MAX	ARRIVAL. * THE FIRST WAVE MAY NOT BE THE LARGEST. ECOMMENDED ACTIONS * IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. * IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. * IF YOU ARE IN A WARNING AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. * BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. * DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. * DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. IGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 4 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT. DDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED TIME OF MEASUREMENT TSUNAMI HEIGHT SAND FOINT AK 1945 UTC 3-27 1.60 FT NIKOLSKI AK 2026 UTC 3-27 1.64 FT NIKOLSKI AK 2026 UTC 3-27 1.64 FT NIKOLSKI AK 2026 UTC 3-27 1.64 FT NIKOLSKI AK 2110 UTC 3-27 4.11 FT ADAK AK 2110 UTC 3-27 1.13 FT ELFIN COVE AK 2132 UTC 3-27 1.32 FT YAKUTAT AK 2145 UTC 3-27 1.63 FT ELFIN COVE AK 2132 UTC 3-27 1.63 FT ELFIN COVE AK 2132 UTC 3-27 1.63 FT SHEMAD AK 2114 UTC 3-27 1.63 FT SHEMAD AK 2114 UTC 3-27 1.63 FT SHEMAD AK 2114 UTC 3-27 1.63 FT SHEMAD AK 2133 UTC 3-27 1.63 FT NAMINAR 2245 UTC 3-27 1.63 FT SHEMAD AK 2245 UTC 3-27 1.65 FT NEMEDRA AK 2255 UTC 3-27 1.65 FT NEMEDRA AK 2255 UTC 3-27 1.65 FT NEMEDRA AK 2255 UTC 3-27 1	l	PACIFEX 14	Handb	ook	
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NEWPORT OR2309UTC3-272.46 FTCHARLESTON OR2333UTC3-272.74 FTPORT ORFORD OR2355UTC3-276.76 FTCRESCENT CITY CA0100UTC3-287.11 FT	NEWPORT OR2309UTC3-272.46FTCHARLESTON OR2333UTC3-272.74FTPORT ORFORD OR2355UTC3-276.76FTCRESCENT CITY CA0100UTC3-287.11FT	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA	2334 2234 2241 2302	UTC UTC	3-27 3-27	2.02 FT 3.15 FT
CHARLESTON OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2355       UTC       3-27       6.76       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT	CHARLESTON OR         2333         UTC         3-27         2.74         FT           PORT ORFORD OR         2355         UTC         3-27         6.76         FT           CRESCENT CITY CA         0100         UTC         3-28         7.11         FT	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA	2334 2234 2241 2302 2354	UTC UTC UTC UTC	3-27 3-27 3-27	2.02 FT 3.15 FT 2.11 FT 1.38 FT
PORT ORFORD OR         2355         UTC         3-27         6.76         FT           CRESCENT CITY CA         0100         UTC         3-28         7.11         FT	PORT ORFORD OR         2355         UTC         3-27         6.76         FT           CRESCENT CITY CA         0100         UTC         3-28         7.11         FT	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR	2334 2234 2241 2302 2354 2259	UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27	2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT
CRESCENT CITY CA 0100 UTC 3-28 7.11 FT	CRESCENT CITY CA 0100 UTC 3-28 7.11 FT	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR	2334 2234 2302 2354 2259 2309	UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27	2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT
		CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR	2334 2234 2241 2302 2354 2259 2309 2333	UTC UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27 3-27	2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT
100	1	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR PORT ORFORD OR	2334 2234 2241 2302 2354 2259 2309 2333 2355	UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27 3-27 3-27	2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT 6.76 FT
10.7	1	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR PORT ORFORD OR	2334 2234 2241 2302 2354 2259 2309 2333 2355	UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27 3-27 3-27	2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT 6.76 FT

PA	ACIFEX 14	Handb	ook		
	0.01.0		2 65	5 50	
ARENA COVE CA	2313	UTC	3-27	5.58 FT	
EUREKA CA			3-28	4.23 FT	
POINT REYES CA				3.38 FT	
SAN FRANCISCO			3-28		
ALAMEDA CA	0141	UTC	3-28	1.84 FT	
MONTEREY CA	2338	UTC	3-27	3.97 FT	
PORT SAN LUIS CA			3-28		
SANTA BARBARA CA			3-28		
SANTA MONICA CA	0157	UTC	3-28	4.12 FT	
SAN PEDRO CA			3-28	3.11 FT	
la jolla ca			3-28		
SAN DIEGO CA	0214	UTC	3-28	1.74 FT	
MIDWAY IS			3-27	1.44 FT	
NAWILIWILI HI	2323	UTC	3-27	2.20 FT	
HALEIWA HI			3-27	2.20 FT 4.99 FT 2.23 FT	
HONOLULU HI			3-27	2.23 FT	
KAHULUI HI			3-27	7.15 FT	
KAWAIHAE HI			3-28	2.89 FT	
WAKE ISLAND			3-28	0.33 FT	
GUAM				0.30 FT	
			3-28	0.46 FT	
PAGO PAGO AM SAMOA	0433	010	3-28	0.40 F1	
* ORIGIN TIME 1050 AKDT 1 1150 PDT 1	MAR 27 20	14			
<pre>1150 PDT I 1850 UTC I * COORDINATES 55.2 NORTH * DEPTH 11 MILES * LOCATION 100 MILES 485 MILES NEXT UPDATE AND ADDITIONAL I * THIS MESSAGE WILL BE UPDAT * REFER TO THE INTERNET SITE INFORMATION.</pre>	MAR 27 20 MAR 27 20 156.7 WE SE OF CHI SW OF ANC NFORMATIC TED IN 60 E NTWC.AR	14 14 ST GNIK HORAG M MINU H.NOA	E ALASKI TES. A.GOV F(	or more	
1150 PDT I 1850 UTC I * COORDINATES 55.2 NORTH * DEPTH 11 MILES * LOCATION 100 MILES 485 MILES NEXT UPDATE AND ADDITIONAL IN * THIS MESSAGE WILL BE UPDAT * REFER TO THE INTERNET SIT	MAR 27 20 MAR 27 20 156.7 WE SE OF CHI SW OF ANC NFORMATIC IED IN 60 E NTWC.AR OUTSIDE UMBIA AND ENTER MES	14 14 ST GNIK HORAG MINU H.NOA CALIF ALAS	TES. A.GOV FO ORNIA KA SHOUI	OR MORE . OREGON LD REFER TO THE	
<pre>1150 PDT I 1850 UTC I 1850 UTC I * DEPTH 55.2 NORTH * LOCATION 100 MILES 485 MILES * LOCATION ADDITIONAL II * THIS MESSAGE WILL BE UPDA * THIS MESSAGE WILL BE UPDA * REFER TO THE INTERNET SITE INFORMATION. * PACIFIC COASTAL RESIDENTS WASHINGTON BRITISH COL PACIFIC TSUNAMI WARNING CO EVENT AT PTWC.WEATHER.GOV</pre>	MAR 27 20 MAR 27 20 156.7 WE SE OF CHI SW OF ANC NFORMATIC IED IN 60 E NTWC.AR OUTSIDE UMBIA AND ENTER MES	14 14 ST GNIK HORAG MINU H.NOA CALIF ALAS	TES. A.GOV FO ORNIA KA SHOUI	OR MORE . OREGON LD REFER TO THE	
<pre>1150 PDT I 1850 UTC I 1850 UTC I * DEPTH 55.2 NORTH * LOCATION 100 MILES 485 MILES * LOCATION ADDITIONAL II * THIS MESSAGE WILL BE UPDA * THIS MESSAGE WILL BE UPDA * REFER TO THE INTERNET SITE INFORMATION. * PACIFIC COASTAL RESIDENTS WASHINGTON BRITISH COL PACIFIC TSUNAMI WARNING CO EVENT AT PTWC.WEATHER.GOV</pre>	MAR 27 20 MAR 27 20 156.7 WE SE OF CHI SW OF ANC NFORMATIC IED IN 60 E NTWC.AR OUTSIDE UMBIA AND ENTER MES	14 14 ST GNIK HORAG MINU H.NOA CALIF ALAS	TES. A.GOV FO ORNIA KA SHOUI	OR MORE . OREGON LD REFER TO THE	



## PACIFEX 14 Handbook \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR... \* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./ \* THE COASTAL AREAS OF WASHINGTON - BRITISH COLUMBIA AND ALASKA FROM THE OREGON-WASHINGTON BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA -THIS IS FOR INFORMATION ONLY. IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS -----\* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \_\_\_\_\_ \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 24 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT. 112

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

ITE	OF ME		MENT	OBSERVED MAX TSUNAMI HEIGHI
SAND POINT AK			3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK	2245	UTC	3-27	0.34 FT
SITKA AK			3-27	3.74 FT
CRAIG AK	2255	UTĈ	3-27	3.88 FT
LANGARA BC	2300	UTC	3-27	1.60 FT
TOFINO BC	2334	UTC	3-27	2.41 FT
NEAH BAY WA	2234	UTC	3-27	2.02 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
WESTPORT WA	2302		3-27	2.11 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT
NEWPORT OR	2309	UTC	3-27	2.46 FT
CHARLESTON OR	2333		3-27	2.74 FT
PORT ORFORD OR	2355	UTC	3-27	6.76 FT
CRESCENT CITY CA	0100	UTC	3-28	7.11 FT
ARENA COVE CA			3-27	5.58 FT
EUREKA CA	0006	UTC	3-28	4.23 FT
POINT REYES CA	0142	UTC	3-28	3.38 FT
SAN FRANCISCO	0155	UTC	3-28	3.71 FT
ALAMEDA CA	0141	UTC	3-28	1.84 FT
MONTEREY CA	2338	UTC	3-27	3.97 FT
PORT SAN LUIS CA	0108	UTC	3-28	11.82 FT
SANTA BARBARA CA	0145	UTC	3-28	3.32 FT
SANTA MONICA CA	0157	UTC	3-28	4.12 FT
SAN PEDRO CA	0230	UTC	3-28	3.11 FT
LA JOLLA CA	0222	UTC	3-28	3.5 FT
SAN DIEGO CA	0214	UTC	3-28	1.74 FT
MIDWAY IS	2304		3-27	1.44 FT
NAWILIWILI HI	2323	UTC	3-27	2.20 FT
HALEIWA HI	2338	UTC	3-27	4.99 FT
HONOLULU HI	2338	UTC	3-27	2.23 FT
KAHULUI HI			3-27	7.15 FT
KAWAIHAE HI			3-28	
WAKE ISLAND	0052	UTC	3-28	0.33 FT
GUAM			3-28	0.30 FT
PAGO PAGO AM SAMOA			3-28	

PRELIMINARY EARTHQUAKE PARAMETERS

*	MAGNITUDE	9.1		
*	ORIGIN TIME	1050	AKDT MAR 27 2014	
		1150	PDT MAR 27 2014	
		1850	UTC MAR 27 2014	
*	COORDINATES	55.2	NORTH 156.7 WEST	
		4 4		

\* DEPTH 11 MILES

\_\_\_\_\_

\* LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA

#### NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #28

WEAK51 PAAQ 282101 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 28 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 101 PM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

#### WARNINGS/ADVISORIES/WATCHES

\_\_\_\_\_

TSUNAMI WARNING IN EFFECT FOR...

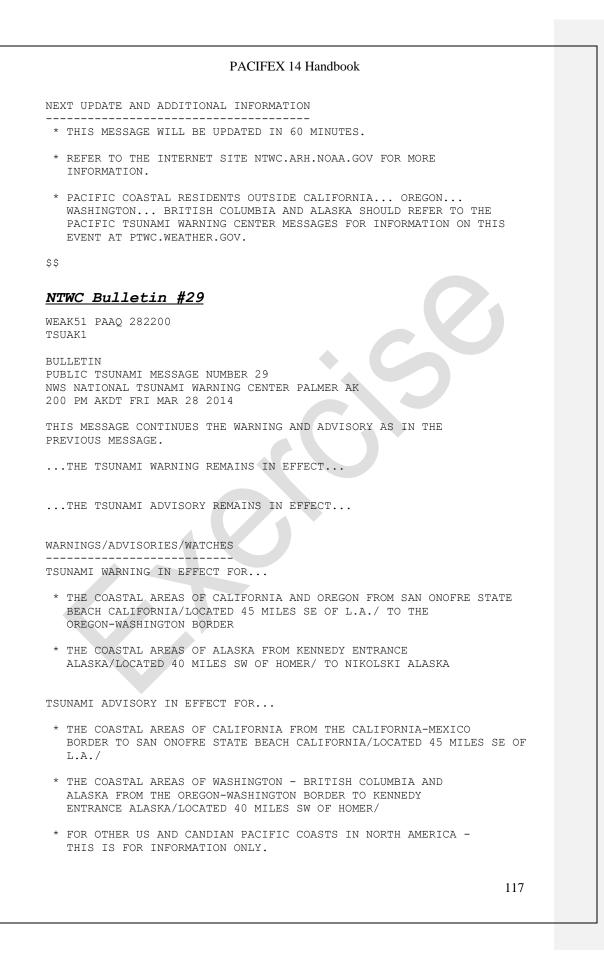
- \* THE COASTAL AREAS OF CALIFORNIA AND OREGON FROM SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./ TO THE OREGON-WASHINGTON BORDER
- \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR ...

\* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO

#### PACIFEX 14 Handbook BORDER TO SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./ \* THE COASTAL AREAS OF WASHINGTON - BRITISH COLUMBIA AND ALASKA FROM THE OREGON-WASHINGTON BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA -THIS IS FOR INFORMATION ONLY. IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS \_\_\_\_\_ \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \_\_\_\_\_ \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED \_\_\_\_\_ TTME OBSERVED MAX SITE OF MEASUREMENT TSUNAMI HEIGHT \_\_\_\_\_ \_\_\_\_\_ 1945 UTC 3-27 SAND POINT AK 11.60 FT 2023 UTC 3-27 KING COVE AK 4.33 FT 2026 UTC 3-27 21.82 FT CHIGNIK AK 2054 UTC 3-27 2056 UTC 3-27 NIKOLSKI AK 1.61 FT UNALASKA AK 1.44 FT 115

KODIAK AK				3-27	4.50 FT
SEWARD AK				3-27	4.11 FT
ADAK AK				3-27	1.03 FT
ELFIN COVE AK			UTC		1.32 FT
YAKUTAT AK		2132		3-27	2.44 FT
PORT ALEXANDER	r ak	2114		3-27	1.41 FT
CORDOVA AK			UTC		1.82 FT
SHEMYA AK SITKA AK		2245		3-27 3-27	0.34 FT 3.74 FT
CRAIG AK		2255			3.88 FT
LANGARA BC		2300		3-27	1.60 FT
TOFINO BC				3-27	2.41 FT
NEAH BAY WA				3-27	2.02 FT
LAPUSH WA		2241	UTC	3-27	3.15 FT
WESTPORT WA		2302	UTC	3-27	2.11 FT
PORT ANGELES W	VA	2354		3-27	1.38 FT
GARIBALDI OR		2259		3-27	1.05 FT
NEWPORT OR				3-27	2.46 FT
CHARLESTON OR				3-27	2.74 FT
PORT ORFORD OF		2355		3-27 3-28	6.76 FT
CRESCENT CITY		0100 2313		3-28	7.11 FT 5.58 FT
ARENA COVE CA EUREKA CA				3-28	4.23 FT
POINT REYES CA	7			3-28	3.38 FT
SAN FRANCISCO		0155		3-28	3.71 FT
ALAMEDA CA		0141		3-28	1.84 FT
MONTEREY CA		2338		3-27	3.97 FT
PORT SAN LUIS	CA	0108	UTC	3-28	11.82 FT
SANTA BARBARA	CA	0145	UTC	3-28	3.32 FT
SANTA MONICA (	CA	0157		3-28	4.12 FT
SAN PEDRO CA		0230	UTC	3-28	3.11 FT
la jolla ca		0222	UTC		3.5 FT
SAN DIEGO CA		0214		3-28	1.74 FT
MIDWAY IS		2304		3-27	1.44 FT
NAWILIWILI HI HALEIWA HI			UTC	3-27 3-27	2.20 FT 4.99 FT
HONOLULU HI				3-27	4.99 FI 2.23 FT
KAHULUI HI		2341			7.15 FT
KAWAIHAE HI		0014		3-28	2.89 FT
WAKE ISLAND		0052		3-28	0.33 FT
GUAM		0321		3-28	0.30 FT
PAGO PAGO AM S	SAMOA	0433	UTC	3-28	0.46 FT
TIDE LE	EVEL AT THE	TIME OF M			LEVEL ABOVE THE
MAGNITUDE ORIGIN TIME	1050 AKDT 1150 PDT	MAR 27 20	14		
COORDINATES DEPTH	11 MILES	H 156.7 WE	ST		
LOCATION	100 MILES 485 MILES	SE OF CHI SW OF ANC	GNIK HORAG	ALASKA E ALASKA	



	PACIFEX 14 Handbook	
IMPACTS FOR TSUNAMI WARNING	G AREAS	
* WIDESPREAD DANGEROUS COA CURRENTS IS POSSIBLE AND TSUNAMI ARRIVAL.		
* THE FIRST WAVE MAY NOT E	BE THE LARGEST.	
IMPACTS FOR TSUNAMI ADVISOF		
* A TSUNAMI CAPABLE OF PRO TO PERSONS IN OR VERY NE	DUCING STRONG CURREN	
* CURRENTS MAY BE HAZARDOU STRUCTURES AND MAY CONTI ARRIVAL.		
* THE FIRST WAVE MAY NOT E	BE THE LARGEST.	
RECOMMENDED ACTIONS		
* IF YOU ARE IN A WARNING	ADEA - MOVE THIAND	TO UTCUED COOLIND
<ul><li>EXPECTED FOR ADVISORY AF</li><li>* BE ALERT TO INSTRUCTIONS</li><li>* DO NOT GO TO THE COAST T</li></ul>	S FROM YOUR LOCAL EMP	
* DO NOT RETURN TO THE COA INDICATE IT IS SAFE TO D		GENCY OFFICIALS
INDICATE IT IS SAFE TO E	00 SO.	
	00 SO.	JPDATED  OBSERVED MAX
INDICATE IT IS SAFE TO E	DO SO. TSUNAMI ACTIVITY - U TIME	JPDATED         OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         7       21.82 FT         7       1.61 FT         7       4.50 FT         7       1.03 FT         7       1.32 FT         7       1.44 FT         7       1.32 FT         7       1.32 FT         7       1.41 FT         7       1.42 FT         7       3.74 FT
INDICATE IT IS SAFE TO E ADDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-2' 2023 UTC 3-2' 2026 UTC 3-2' 2056 UTC 3-2' 2056 UTC 3-2' 2100 UTC 3-2' 2110 UTC 3-2' 2133 UTC 3-2' 2133 UTC 3-2' 2132 UTC 3-2' 2132 UTC 3-2' 2235 UTC 3-2' 2245 UTC 3-2' 2222 UTC 3-2'	JPDATED         OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         7       21.82 FT         7       1.61 FT         7       4.50 FT         7       1.03 FT         7       1.32 FT         7       1.44 FT         7       1.32 FT         7       1.32 FT         7       1.41 FT         7       1.42 FT         7       3.74 FT

LANGARA BC	2300	UTC	3-27	1.60 F	Г
TOFINO BC			3-27	2.41 F	
NEAH BAY WA			3-27	2.02 F	Г
LAPUSH WA	2241	UTC	3-27	3.15 F	Г
WESTPORT WA	2302	UTC	3-27	2.11 F	Г
PORT ANGELES WA			3-27	1.38 F	Г
GARIBALDI OR			3-27	1.05 F	
NEWPORT OR			3-27	2.46 F	
CHARLESTON OR			3-27	2.74 F	
PORT ORFORD OR			3-27	6.76 F	
CRESCENT CITY CA			3-28 3-27	7.11 F 5.58 F	
ARENA COVE CA EUREKA CA			3-28	4.23 F	
POINT REYES CA			3-28	4.23 F. 3.38 F.	
SAN FRANCISCO			3-28	3.71 F	
ALAMEDA CA			3-28	1.84 F	
MONTEREY CA			3-27	3.97 F	
PORT SAN LUIS CA	0108			11.82 F	
SANTA BARBARA CA	0145			3.32 F	Г
SANTA MONICA CA	0157	UTĈ	3-28	4.12 F	Г
SAN PEDRO CA	0230	UTC	3-28	3.11 F	Г
LA JOLLA CA	0222			3.5 FT	
SAN DIEGO CA	0214			1.74 F	
MIDWAY IS			3-27	1.44 F	
NAWILIWILI HI			3-27	2.20 F	
HALEIWA HI			3-27	4.99 F	
HONOLULU HI			3-27	2.23 F	
KAHULUI HI			3-27 3-28	7.15 F	
KAWAIHAE HI WAKE ISLAND			3-28	2.89 F 0.33 F	
GUAM			3-28	0.30 F	
PAGO PAGO AM SAMOA			3-28		
ETCHE ODCEDUED MAY MOUNTA					mur
EIGHT - OBSERVED MAX TSUNAL TIDE LEVEL AT THE '				LEVEL ADOVE	IUT
ELIMINARY EARTHOUAKE PARAM	ETTEDC				
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LOCATION 100 MILES S 485 MILES S					
405 MILES 3	SW OF ANC	HURAG	E ALASKA		
XT UPDATE AND ADDITIONAL IN	NFORMATIO	Ν			
THIS MESSAGE WILL BE UPDA	 TED IN 60	- MINU	TES.		
REFER TO THE INTERNET SITUINFORMATION.	E NTWC.AR	H.NOA	A.GOV FOF	R MORE	
PACIFIC COASTAL RESIDENTS WASHINGTON BRITISH COLU PACIFIC TSUNAMI WARNING CI	UMBIA AND	ALAS	KA SHOULI	REFER TO TH	
					119

EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #30

WEAK51 PAAQ 282300 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 30 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 300 PM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA AND OREGON FROM SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./ TO THE OREGON-WASHINGTON BORDER
- \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR ...

- \* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./
- \* THE COASTAL AREAS OF WASHINGTON BRITISH COLUMBIA AND ALASKA FROM THE OREGON-WASHINGTON BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA THIS IS FOR INFORMATION ONLY.

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

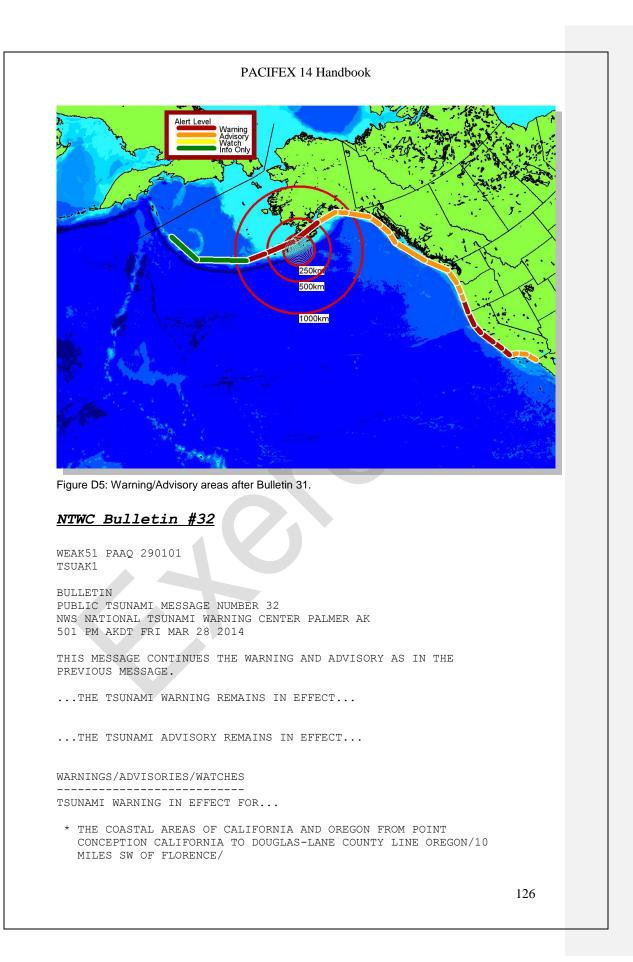
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MPACTS FOR TSUNAMI ADVIS	ORY AREAS			
* A TSUNAMI CAPABLE OF PL TO PERSONS IN OR VERY 1				
* CURRENTS MAY BE HAZARDO STRUCTURES AND MAY CON ARRIVAL.				
* THE FIRST WAVE MAY NOT	BE THE LARG	GEST.		
ECOMMENDED ACTIONS				
* IF YOU ARE IN A WARNING	G AREA - MOL	ZE TNIJ	and to f	ITGHER GROUND.
* IF YOU ARE IN AN ADVIS HARBORS AND MARINAS. N EXPECTED FOR ADVISORY 2	WIDESPREAD I			
* BE ALERT TO INSTRUCTION	NS FROM YOUF	R LOCA	L EMERGE	ENCY OFFICIALS.
* DO NOT GO TO THE COAST	TO OBSERVE	THE T	SUNAMI.	
INDICATE IT IS SAFE TO	DO SO.			
DDITIONAL OBSERVATIONS OF	F TSUNAMI AC			OBSERVED MAX
	F TSUNAMI AC		MENT	
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK	F TSUNAMI AC T OF ME 1945	TIME EASUREI UTC	MENT  3-27	OBSERVED MAX TSUNAMI HEIGHT 
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DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK	F TSUNAMI AC OF ME 1945 2023 2026 2054 2056 2100 2110 2145	TIME CASUREI UTC UTC UTC UTC UTC UTC UTC UTC UTC	MENT 3-27 3-27 3-27 3-27 3-27 3-27 3-27 3-27	OBSERVED MAX TSUNAMI HEIGHT 
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SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK	F TSUNAMI AC OF ME 1945 2023 2026 2054 2056 2100 2110 2145 2133 2132 2114 2235 2245	TIME CASUREI UTC UTC UTC UTC UTC UTC UTC UTC UTC UTC	MENT 3-27 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-	OBSERVED MAX TSUNAMI HEIGHT 
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PACIFEX 14 Handbook CRESCENT CITY CA 0100 UTC 3-28 7.11 FT 2313 UTC 3-27 5.58 FT ARENA COVE CA 0006 UTC 3-28 4.23 FT EUREKA CA 0142 UTC 3-28 0155 UTC 3-28 0141 UTC 3-28 3.38 FT POINT REYES CA SAN FRANCISCO 3.71 FT 1.84 FT ALAMEDA CA 2338 UTC 3-27 MONTEREY CA 3.97 FT 0108 UTC 3-28 0145 UTC 3-28 PORT SAN LUIS CA 11.82 FT SANTA BARBARA CA 3.32 FT 0145 UTC 3-28 0157 UTC 3-28 SANTA MONICA CA 4.12 FT 0230 UTC 3-28 SAN PEDRO CA 3.11 FT 0222 UTC 3-28 la jolla ca 3.5 FT 0214 UTC 3-28 2304 UTC 3-27 3-28 SAN DIEGO CA 1.74 FT MTDWAY IS 1.44 FT 2.20 FT 4.99 FT 2323 UTC 3-27 NAWILIWILI HI 2338 UTC 3-27 2338 UTC 3-27 HALEIWA HI HONOLULU HI 2.23 FT 2341 UTC 3-27 7.15 FT KAHULUI HI 0014 UTC 3-28 KAWAIHAE HI 2.89 FT 0052 UTC 3-28 0321 UTC 3-28 0433 UTC 3-28 WAKE ISLAND 0.33 FT GUAM 0.30 FT PAGO PAGO AM SAMOA 0.46 FT HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. PRELIMINARY EARTHQUAKE PARAMETERS \_\_\_\_\_ \* MAGNITUDE 9.1 1050 AKDT MAR 27 2014 \* ORIGIN TIME 1150 PDT MAR 27 2014 1850 UTC MAR 27 2014 \* COORDINATES 55.2 NORTH 156.7 WEST \* DEPTH 11 MILES \* LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA NEXT UPDATE AND ADDITIONAL INFORMATION \_\_\_\_\_ \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES. \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION. \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV. ŚŚ NTWC Bulletin #31 WEAK51 PAAQ 290004 TSUAK1 122

PACIFEX 14 Handbook BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 31 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 404 PM AKDT FRI MAR 28 2014 THIS MESSAGE DOWNGRADES THE TSUNAMI WARNING TO AN ADVISORY FOR SOME AREAS OF CALIFORNIA AND OREGON. ... THE TSUNAMI WARNING REMAINS IN EFFECT... ... THE TSUNAMI ADVISORY REMAINS IN EFFECT... WARNINGS/ADVISORIES/WATCHES - UPDATED \_\_\_\_\_ \_\_\_\_\_ TSUNAMI WARNING IN EFFECT FOR... \* THE COASTAL AREAS OF CALIFORNIA AND OREGON FROM POINT CONCEPTION CALIFORNIA TO DOUGLAS-LANE COUNTY LINE OREGON/10 MILES SW OF FLORENCE/ \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR... \* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./ \* THE COASTAL AREAS OF CALIFORNIA FROM SAN ONOFRE STATE BEACH CALIFORNIA/LOCATED 45 MILES SE OF L.A./ TO POINT CONCEPTION CALIFORNIA \* THE COASTAL AREAS OF OREGON FROM DOUGLAS-LANE COUNTY LINE OREGON/10 MILES SW OF FLORENCE/ TO THE OREGON-WASHINGTON BORDER \* THE COASTAL AREAS OF WASHINGTON - BRITISH COLUMBIA AND ALASKA FROM THE OREGON-WASHINGTON BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA -THIS IS FOR INFORMATION ONLY. IMPACTS FOR TSUNAMI WARNING AREAS \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS 123

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MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK	TILL IN A LEVEL TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2145 UT 2133 UT 2132 UT	OF ALERT. ITY - UPDA REMENT  C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         1.32 FT         2.44 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK	FILL IN A LEVEL F TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2145 UT 2133 UT 2132 UT 2114 UT	OF ALERT. ITY - UPDA REMENT  C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         1.32 FT         2.44 FT         1.41 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK	FILL IN A LEVEL F TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2145 UT 2133 UT 2132 UT	OF ALERT. ITY - UPDA REMENT  C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         1.32 FT         2.44 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF TTE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK	FILL IN A LEVEL F TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2133 UT 2132 UT 2114 UT 2235 UT	OF ALERT. ITY - UPDA REMENT  C 3-27 C 3-27	ATED         OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         1.32 FT         2.44 FT         1.41 FT         1.82 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF ITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK	FILL IN A LEVEL F TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2133 UT 2132 UT 2132 UT 2114 UT 2235 UT 2245 UT	OF ALERT. ITY - UPDA REMENT  C 3-27 C 3-27	ATED         OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         1.32 FT         2.44 FT         1.41 FT         1.82 FT         0.34 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF ITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK	TILL IN A LEVEL TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2054 UT 2100 UT 2110 UT 2133 UT 2132 UT 2132 UT 2134 UT 2235 UT 2225 UT 2222 UT	OF ALERT. ITY - UPDA REMENT  C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         1.32 FT         2.44 FT         1.41 FT         1.82 FT         0.34 FT         3.74 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF ITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK	TILL IN A LEVEL TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2145 UT 2132 UT 2132 UT 2132 UT 2235 UT 2225 UT	OF ALERT. ITY - UPDA REMENT C 3-27 C 3-27	DESERVED MAX TSUNAMI HEIGHT 11.60 FT 4.33 FT 21.82 FT 1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT 0.34 FT 3.74 FT 3.88 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF THE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC	TILL IN A LEVEL T TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2054 UT 2100 UT 2110 UT 2113 UT 2133 UT 2132 UT 2134 UT 2235 UT 2222 UT 2255 UT 2300 UT	OF ALERT. ITY - UPDA REMENT  C 3-27 C 3-27	DESERVED MAX TSUNAMI HEIGHT 11.60 FT 4.33 FT 21.82 FT 1.61 FT 1.64 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT 0.34 FT 3.74 FT 3.88 FT 1.60 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF THE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC	TILL IN A LEVEL T TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2133 UT 2132 UT 2132 UT 2132 UT 2245 UT 2225 UT 2235 UT 2235 UT 2230 UT 2334 UT	OF ALERT. ITY - UPDA REMENT C 3-27 C 3-27	DESERVED MAX TSUNAMI HEIGHT 11.60 FT 4.33 FT 21.82 FT 1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT 0.34 FT 3.74 FT 3.88 FT 1.60 FT 2.41 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA	FILL IN A LEVEL F TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2145 UT 2133 UT 2132 UT 2245 UT 2245 UT 2255 UT 2300 UT 2334 UT 2234 UT 2241 UT 2302 UT	OF ALERT. ITY - UPDA REMENT C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         2.44 FT         1.41 FT         1.82 FT         0.34 FT         3.74 FT         3.88 FT         1.60 FT         2.41 FT         2.02 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA	TILL IN A LEVEL TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2133 UT 2132 UT 2132 UT 2132 UT 2245 UT 2225 UT 2225 UT 2300 UT 2334 UT 2234 UT 2241 UT	OF ALERT. ITY - UPDA REMENT C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         1.32 FT         2.44 FT         1.41 FT         1.82 FT         0.34 FT         3.74 FT         3.88 FT         1.60 FT         2.41 FT         2.02 FT         3.15 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR	TILL IN A LEVEL T TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2145 UT 2133 UT 2132 UT 2235 UT 2245 UT 2255 UT 2234 UT 2334 UT 2234 UT 2234 UT 2235 UT 2234 UT 2235 UT 2234 UT 2234 UT 2234 UT 2234 UT 2235 UT 2234 UT 2334 UT	OF ALERT. ITY - UPDA REMENT C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         2.44 FT         1.41 FT         1.82 FT         0.34 FT         3.74 FT         3.88 FT         1.60 FT         2.41 FT         2.02 FT         3.15 FT         2.11 FT         1.38 FT         1.05 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA	TILL IN A LEVEL TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2145 UT 2133 UT 2132 UT 2245 UT 2225 UT 2255 UT 2300 UT 2334 UT 2234 UT 2354 UT	OF ALERT. ITY - UPDA REMENT C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         2.44 FT         1.41 FT         1.82 FT         0.34 FT         3.74 FT         3.88 FT         1.60 FT         2.41 FT         2.02 FT         3.15 FT         2.11 FT         1.38 FT
MORE HOURS FOR AREAS ST DITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR	TILL IN A LEVEL T TSUNAMI ACTIV TIME OF MEASU 1945 UT 2023 UT 2026 UT 2054 UT 2056 UT 2100 UT 2110 UT 2145 UT 2133 UT 2132 UT 2235 UT 2245 UT 2255 UT 2234 UT 2334 UT 2234 UT 2234 UT 2235 UT 2234 UT 2235 UT 2234 UT 2234 UT 2234 UT 2234 UT 2235 UT 2234 UT 2334 UT	OF ALERT. ITY - UPDA REMENT C 3-27 C 3-27	OBSERVED MAX         TSUNAMI HEIGHT         11.60 FT         4.33 FT         21.82 FT         1.61 FT         1.44 FT         4.50 FT         4.11 FT         1.03 FT         2.44 FT         1.41 FT         1.82 FT         0.34 FT         3.74 FT         3.88 FT         1.60 FT         2.41 FT         2.02 FT         3.15 FT         2.11 FT         1.38 FT         1.05 FT

	Р	ACIFEX 14	Handb	ook		
CHARLESTON OR				3-27	2.74 FT	
PORT ORFORD C				3-27	6.76 FT	
CRESCENT CITY				3-28	7.11 FT	
ARENA COVE CA	1			3-27	5.58 FT	
EUREKA CA	1.7	0006		3-28	4.23 FT	
POINT REYES C SAN FRANCISCO		0142		3-28		
ALAMEDA CA	)	0133		3-28 3-28	3.71 FT 1.84 FT	
MONTEREY CA		2338		3-27	3.97 FT	
PORT SAN LUIS				3-28	11.82 FT	
SANTA BARBARA				3-28	3.32 FT	
SANTA MONICA				3-28	4.12 FT	
SAN PEDRO CA				3-28	3.11 FT	
la jolla ca		0222	UTC	3-28	3.5 FT	
SAN DIEGO CA		0214	UTC	3-28	1.74 FT	
MIDWAY IS		2304		3-27	1.44 FT	
NAWILIWILI HI				3-27	2.20 FT	
HALEIWA HI				3-27	4.99 FT	
HONOLULU HI				3-27	2.23 FT	
KAHULUI HI Kamatuar ut		2341		3-27	7.15 FT 2.89 FT	
KAWAIHAE HI WAKE ISLAND				3-28 3-28	2.89 FT 0.33 FT	
GUAM				3-28	0.30 FT	
PAGO PAGO AM	SAMOA			3-28	0.46 FT	
ORIGIN TIME COORDINATES DEPTH LOCATION	1150 PDT 1850 UTC 55.2 NORTH 11 MILES 100 MILES	MAR 27 20 MAR 27 20 H 156.7 WE SE OF CHI	14 14 ST GNIK			
XT UPDATE AND		INFORMATIC	N -			
REFER TO THE					R MORE	
PACIFIC COAST WASHINGTON	BRITISH CO MI WARNING (	LUMBIA AND CENTER MES	ALAS	KA SHOUL	OREGON D REFER TO THE ORMATION ON THIS	
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## PACIFEX 14 Handbook \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO NIKOLSKI ALASKA TSUNAMI ADVISORY IN EFFECT FOR... \* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO POINT CONCEPTION CALIFORNIA \* THE COASTAL AREAS OF OREGON - WASHINGTON - BRITISH COLUMBIA AND ALASKA FROM DOUGLAS-LANE COUNTY LINE OREGON/10 MILES SW OF FLORENCE/ TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA -THIS IS FOR INFORMATION ONLY. IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS ..... \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS ----\_\_\_\_\_ \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 18 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT. 127

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

ITE	OF ME		MENT	OBSERVED MAX TSUNAMI HEIGHI
SAND POINT AK			3-27	 11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK			3-27	21.82 FT
NIKOLSKI AK			3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114		3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK			3-27	0.34 FT
SITKA AK			3-27	3.74 FT
CRAIG AK			3-27	3.88 FT
LANGARA BC	2300	UTC	3-27	1.60 FT
TOFINO BC			3-27	2.41 FT
NEAH BAY WA	2234		3-27	2.02 FT
LAPUSH WA	2241		3-27	3.15 FT
WESTPORT WA	2302		3-27	2.11 FT
PORT ANGELES WA			3-27	1.38 FT
GARIBALDI OR			3-27	1.05 FT
NEWPORT OR	2309			2.46 FT
CHARLESTON OR	2333		3-27	2.74 FT
PORT ORFORD OR	2355		3-27	6.76 FT
CRESCENT CITY CA			3-28	7.11 FT
ARENA COVE CA			3-27	5.58 FT
EUREKA CA	0006		3-28	4.23 FT
POINT REYES CA			3-28	3.38 FT
SAN FRANCISCO	0155		3-28	3.71 FT
ALAMEDA CA	0141		3-28	1.84 FT
MONTEREY CA	2338		3-27	3.97 FT
PORT SAN LUIS CA	0108		3-28	11.82 FT
SANTA BARBARA CA	0145		3-28	3.32 FT
SANTA MONICA CA	01157		3-28	4.12 FT
SAN PEDRO CA	0230		3-28	3.11 FT
LA JOLLA CA	0222		3-28	3.5 FT
SAN DIEGO CA	0214		3-28	1.74 FT
MIDWAY IS	2304		3-27	1.44 FT
NAWILIWILI HI			3-27	2.20 FT
HALEIWA HI	2338		3-27	4.99 FT
HONOLULU HI			3-27	2.23 FT
KAHULUI HI			3-27	7.15 FT
KAWAIHAE HI			3-28	
WAKE ISLAND	0014		3-28	2.89 FI 0.33 FT
GUAM			3-28	0.30 FT
PAGO PAGO AM SAMOA			3-28	
LAGO LAGO AN SAMUA	0400	UIC	5-20	0.40 FI

PRELIMINARY EARTHQUAKE PARAMETERS

* MAGNITUDE	9.1
* ORIGIN TIME	1050 AKDT MAR 27 2014
	1150 PDT MAR 27 2014
	1850 UTC MAR 27 2014
* COORDINATES	55.2 NORTH 156.7 WEST
* DEPTH	11 MILES

\* DEPTH 11 MILES \* LOCATION 100 MILES

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LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA

#### NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #33

WEAK51 PAAQ 290201 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 33 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 601 PM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

- \* THE COASTAL AREAS OF CALIFORNIA AND OREGON FROM POINT CONCEPTION CALIFORNIA TO DOUGLAS-LANE COUNTY LINE OREGON/10 MILES SW OF FLORENCE/
- \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO POINT CONCEPTION CALIFORNIA
- \* THE COASTAL AREAS OF OREGON WASHINGTON BRITISH COLUMBIA AND ALASKA FROM DOUGLAS-LANE COUNTY LINE OREGON/10 MILES SW OF FLORENCE/ TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA THIS IS FOR INFORMATION ONLY.

### IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

## ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
SAND POINT AK	1945 UTC 3-27	11.60 FT
KING COVE AK	2023 UTC 3-27	4.33 FT
CHIGNIK AK	2026 UTC 3-27	21.82 FT
NIKOLSKI AK	2054 UTC 3-27	1.61 FT

AK AK       2100       UTC       3-27       4.50       FT         RD AK       2110       UTC       3-27       4.11       FT         IRD AK       2145       UTC       3-27       1.03       FT         IN COVE AK       2133       UTC       3-27       1.32       FT         TAT AK       2132       UTC       3-27       1.41       FT         OVA AK       2235       UTC       3-27       1.41       FT         YA AK       2245       UTC       3-27       1.82       FT         YA AK       2255       UTC       3-27       3.74       FT         GAK       2255       UTC       3-27       3.74       FT         GAK       2255       UTC       3-27       2.41       FT         INO BC       2334       UTC       3-27       2.41       FT         ISAR MA       2302       UTC       3-27       2.11       FT         YPORT WA       2302       UTC       3-27       1.05       FT         YPORT WA       2302       UTC       3-27       2.76       FT         YPORT WA       2303       UTC       3-27       2		PA	CIFEX 14	Handt	ook	
AK AK       2100       UTC       3-27       4.50       FT         RD AK       2110       UTC       3-27       4.11       FT         RD AK       2110       UTC       3-27       1.03       FT         IN COVE AK       2133       UTC       3-27       1.32       FT         ITAT AK       2132       UTC       3-27       1.41       FT         OVA AK       2235       UTC       3-27       1.82       FT         YA AK       2245       UTC       3-27       3.74       FT         GA AK       2255       UTC       3-27       2.41       FT         YA AK       2245       UTC       3-27       3.74       FT         GA AK       2255       UTC       3-27       2.41       FT         YA AK       2241       UTC       3-27       2.41       FT         YANA       2302       UTC       3-27       1.05       FT         YANGELES WA       2354       UTC       3-27       1.05       FT         YANGELES WA       2355       UTC       3-27       2.46       FT         YACOVE CA       2313       UTC       3-28	UNALASKA AK		2056	ሀጥሮ	3-27	1.44 ምጥ
ARD       AK       2110       UTC       3-27       4.11       FT         X AK       2145       UTC       3-27       1.03       FT         IN COVE AK       2133       UTC       3-27       1.32       FT         YALEXANDER AK       2114       UTC       3-27       2.44       FT         YALEXANDER AK       2215       UTC       3-27       0.34       FT         YAAK       2225       UTC       3-27       1.60       FT         YAAK       2245       UTC       3-27       1.60       FT         YAAK       2222       UTC       3-27       2.04       FT         YAAK       2230       UTC       3-27       2.05       FT         YARA       2234       UTC       3-27       2.06       FT         YAMA       2234       UTC       3-27       2.01       FT         YAMA       2302       UTC       3-27       2.06       FT         YAMA       2302       UTC       3-27       1.05       FT         YORT OR       2333       UTC       3-27       7.4       FT         YANGELES WA       2354       UTC       3-	KODIAK AK					
NN COVE AK       2133       UTC       3-27       1.32 FT         ITAT AK       2132       UTC       3-27       2.44 FT         ? ALEXANDER AK       2114       UTC       3-27       1.41 FT         OOVA AK       2235       UTC       3-27       1.42 FT         IYA AK       2245       UTC       3-27       1.34 FT         GA K       2225       UTC       3-27       3.74 FT         GA K       2225       UTC       3-27       3.74 FT         GA K       2225       UTC       3-27       3.88 FT         SARA BC       2300       UTC       3-27       2.01 FT         INO BC       2334       UTC       3-27       2.01 FT         SH WA       2234       UTC       3-27       2.11 FT         PORT WA       2302       UTC       3-27       1.05 FT         ORT OR       2309       UTC       3-27       2.74 FT         CENT CITY CA       0100       UTC       3-28       7.11 FT         IA COVE CA       2313       UTC       3-27       5.58 FT         CENT CITY CA       0100       UTC       3-28       1.84 FT         TRAXCA	SEWARD AK					
TAT AK       2132       UTC       3-27       2.44       FT         PLEXANDER AK       2114       UTC       3-27       1.41       FT         YAAK       2235       UTC       3-27       1.41       FT         YAAK       2235       UTC       3-27       1.82       FT         YAAK       2245       UTC       3-27       3.74       FT         GAK       2255       UTC       3-27       3.74       FT         GAK       2255       UTC       3-27       3.88       FT         SARA BC       2300       UTC       3-27       2.02       FT         NO BC       2334       UTC       3-27       2.02       FT         YENT WA       2324       UTC       3-27       2.01       FT         YENT WA       2354       UTC       3-27       2.11       FT         YENT WA       2354       UTC       3-27       2.74       FT         YENT OR       2309       UTC       3-27       2.74       FT         YENT OR       2333       UTC       3-27       5.58       FT         YENT OR       2333       UTC       3-27       5.	ADAK AK					
ALEXANDER AK       2114       UTC       3-27       1.41       FT         YA AK       2235       UTC       3-27       1.82       FT         YA AK       2245       UTC       3-27       0.34       FT         YA AK       2225       UTC       3-27       0.34       FT         YA AK       2222       UTC       3-27       0.34       FT         YA AK       2225       UTC       3-27       0.88       FT         YA AK       2255       UTC       3-27       1.60       FT         YA AK       2241       UTC       3-27       2.02       FT         YA NA       2241       UTC       3-27       2.16       FT         YA NGELS WA       2302       UTC       3-27       1.05       FT         YA NGELS WA       2309       UTC       3-27       1.05       FT         YA NGR CA       2309       UTC       3-27       2.46       FT         YA AK       2333       UTC       3-27       2.46       FT         YA BARDARA       2313       UTC       3-27       5.58       FT         YA CA       0100       UTC       3-28	ELFIN COVE AK					
DOVA AK       2235       UTC       3-27       1.82 FT         MA AK       2245       UTC       3-27       0.34 FT         GA AK       2222       UTC       3-27       3.74 FT         GA AK       2255       UTC       3-27       3.88 FT         GA AK       2255       UTC       3-27       3.88 FT         GA AK       2234       UTC       3-27       2.41 FT         I BAY WA       2234       UTC       3-27       2.41 FT         I BAY WA       2234       UTC       3-27       2.11 FT         YENGT WA       2302       UTC       3-27       2.11 FT         YENGT WA       2302       UTC       3-27       2.16 FT         YENGT WA       2302       UTC       3-27       1.88 FT         YENGT OR       2309       UTC       3-27       1.66 FT         YENGT OR       2333       UTC       3-27       2.74 FT         YENGT OR       2333       UTC       3-27       2.74 FT         YENGT OR       2333       UTC       3-27       5.58 FT         YENGT OR       2333       UTC       3-28       1.31 FT         YENCA       0100	YAKUTAT AK		2132	UTC	3-27	2.44 FT
YA AK       2245       UTC       3-27       0.34       FT         CA AK       2222       UTC       3-27       3.74       FT         CG AK       2255       UTC       3-27       3.74       FT         CG AK       2255       UTC       3-27       3.74       FT         CG AK       2255       UTC       3-27       3.60       FT         CG AK       2300       UTC       3-27       2.41       FT         I BAY WA       2234       UTC       3-27       2.02       FT         JSH WA       2302       UTC       3-27       2.11       FT         PORT WA       2302       UTC       3-27       1.05       FT         PORT OR       2330       UTC       3-27       1.05       FT         CORT OR       2333       UTC       3-27       6.76       FT         LESTON OR       2333       UTC       3-27       5.86       FT         VACACA       0100       UTC       3-28       1.38       FT         VEA CA       0108       UTC       3-28       1.84       FT         VEA CA       0138       UTC       3-28	PORT ALEXANDE	r ak	2114	UTC	3-27	1.41 FT
XA AK       2222       UTC       3-27       3.74 FT         IG AK       2255       UTC       3-27       3.88 FT         SARA BC       2300       UTC       3-27       1.60 FT         INO BC       2334       UTC       3-27       2.41 FT         I BAY WA       2234       UTC       3-27       2.02 FT         ISH WA       2234       UTC       3-27       2.11 FT         YAMA       2302       UTC       3-27       2.11 FT         YAMA       2354       UTC       3-27       1.05 FT         YANGELES WA       2354       UTC       3-27       2.46 FT         YAME       2333       UTC       3-27       2.46 FT         YANGELES WA       2355       UTC       3-27       2.46 FT         YANGELES WA       2355       UTC       3-27       2.74 FT         YANGENCO R       2333       UTC       3-27       5.58 FT         YANGENCA       0100       UTC       3-28       7.11 FT         YANGA       0106       UTC       3-28       3.74 FT         YANGA       0106       UTC       3-28       3.71 FT         YANGA       0102	CORDOVA AK		2235	UTC		1.82 FT
ARA       2255       UTC       3-27       3.88       FT         ARA BC       2300       UTC       3-27       1.60       FT         INO BC       2334       UTC       3-27       2.41       FT         I BAY WA       2234       UTC       3-27       2.02       FT         ISH WA       2244       UTC       3-27       2.11       FT         PORT WA       2302       UTC       3-27       2.11       FT         PORT WA       2302       UTC       3-27       1.38       FT         PORT WA       2302       UTC       3-27       1.38       FT         PORT OR       2333       UTC       3-27       1.66       FT         CORT OR       2333       UTC       3-27       2.74       FT         PORT OR       2333       UTC       3-27       5.76       FT         CORT OR       2313       UTC       3-28       7.11       FT         CORT OR       2313       UTC       3-28       4.23       FT         VA CA       0100       UTC       3-28       3.38       FT         FRANCISCO       0155       UTC       3-28	SHEMYA AK					
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PA BARBARA CA       0145       UTC       3-28       3.32       FT         PA MONICA CA       0157       UTC       3-28       4.12       FT         PEDRO CA       0230       UTC       3-28       3.11       FT         TOLLA CA       0222       UTC       3-28       3.5       FT         DIEGO CA       0214       UTC       3-28       1.74       FT         MAY IS       2304       UTC       3-27       1.44       FT         CLIWILI HI       2323       UTC       3-27       2.20       FT         CIWA HI       2338       UTC       3-27       2.20       FT         DLULU HI       2338       UTC       3-27       2.23       FT         OLULU HI       2341       UTC       3-27       2.23       FT         OLULU HI       2341       UTC       3-27       2.89       FT         OLULU HI       0014       UTC       3-28       0.33       FT         OLULU HI       0321       UTC       3-28       0.30       FT         OLULU HI       0321       UTC       3-28       0.30       FT         OLULU HI       0321       UTC<		<b>CD</b>				
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MOLLA CA       0222       UTC       3-28       3.5 FT         DIEGO CA       0214       UTC       3-28       1.74 FT         MAY IS       2304       UTC       3-27       1.44 FT         CLIWILI HI       2323       UTC       3-27       2.20 FT         CIWA HI       2338       UTC       3-27       2.23 FT         DLULU HI       2338       UTC       3-27       2.23 FT         DLUI HI       2341       UTC       3-27       2.89 FT         MHAE HI       0014       UTC       3-28       0.33 FT         ONE ISLAND       0052       UTC       3-28       0.30 FT         O PAGO AM SAMOA       0433       UTC       3-28       0.46 FT		A				
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MAY IS       2304       UTC       3-27       1.44       FT         CLIWILI HI       2323       UTC       3-27       2.20       FT         CIWA HI       2338       UTC       3-27       4.99       FT         DLULU HI       2338       UTC       3-27       2.23       FT         DLUI HI       2341       UTC       3-27       7.15       FT         MHAE HI       0014       UTC       3-28       2.89       FT         CISLAND       0052       UTC       3-28       0.33       FT         O PAGO AM SAMOA       0433       UTC       3-28       0.46       FT						
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CIWA HI       2338       UTC       3-27       4.99 FT         DLULU HI       2338       UTC       3-27       2.23 FT         DLUI HI       2341       UTC       3-27       7.15 FT         MIHAE HI       0014       UTC       3-28       2.89 FT         NISLAND       0052       UTC       3-28       0.33 FT         M       0321       UTC       3-28       0.30 FT         O PAGO AM SAMOA       0433       UTC       3-28       0.46 FT	NAWILIWILI HI					
DLUI HI       2341       UTC       3-27       7.15       FT         AIHAE HI       0014       UTC       3-28       2.89       FT         AISLAND       0052       UTC       3-28       0.33       FT         0       0321       UTC       3-28       0.30       FT         0       PAGO AM SAMOA       0433       UTC       3-28       0.46       FT	HALEIWA HI			UTC		
AIHAE HI       0014       UTC       3-28       2.89       FT         C ISLAND       0052       UTC       3-28       0.33       FT         0       0321       UTC       3-28       0.30       FT         0       PAGO AM SAMOA       0433       UTC       3-28       0.46       FT	HONOLULU HI			UTC	3-27	2.23 FT
C ISLAND       0052       UTC       3-28       0.33       FT         0       0321       UTC       3-28       0.30       FT         0       PAGO AM SAMOA       0433       UTC       3-28       0.46       FT	KAHULUI HI		2341	UTC	3-27	7.15 FT
0         0321         UTC         3-28         0.30         FT           0         PAGO AM SAMOA         0433         UTC         3-28         0.46         FT	KAWAIHAE HI					
PAGO AM SAMOA         0433         UTC         3-28         0.46         FT	WAKE ISLAND		0052	UTC	3-28	0.33 FT
	GUAM		0321	UTC	3-28	0.30 FT
' - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE	PAGO PAGO AM :	SAMOA	0433	UTC	3-28	0.46 FT
TIDE LEVEL AT THE TIME OF MEASUREMENT.	MONTEREY CA PORT SAN LUIS SANTA BARBARA SANTA MONICA O SAN PEDRO CA LA JOLLA CA SAN DIEGO CA MIDWAY IS NAWILIWILI HI HALEIWA HI HONOLULU HI KAHULUI HI KAWAIHAE HI WAKE ISLAND GUAM PAGO PAGO AM S EIGHT - OBSERVI	CA CA SAMOA ED MAX TSUNAN	2338 0108 0145 0157 0230 0222 0214 2304 2323 2338 2338 2338 2341 0014 0052 0321 0433 41 HEIGHT	UTC UTC UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-28 3-28 3-28 3-28 3-28 3-28 3-27 3-27 3-27 3-27 3-27 3-27 3-27 3-28 3-28 3-28 3-28 HE WATER	3.97 FT 11.82 FT 3.32 FT 4.12 FT 3.11 FT 3.5 FT 1.74 FT 1.44 FT 2.20 FT 4.99 FT 2.23 FT 7.15 FT 2.89 FT 0.33 FT 0.30 FT 0.46 FT
	LIMINARY EARTI	HQUAKE PARAME	ETERS			
NARY EARTHQUAKE PARAMETERS						
NARY EARTHQUAKE PARAMETERS						
	ORIGIN TIME					
IITUDE 9.1 GIN TIME 1050 AKDT MAR 27 2014						
IITUDE 9.1 SIN TIME 1050 AKDT MAR 27 2014 1150 PDT MAR 27 2014						
NITUDE 9.1 SIN TIME 1050 AKDT MAR 27 2014 1150 PDT MAR 27 2014 1850 UTC MAR 27 2014			156.7 WE	ST		
IITUDE 9.1 SIN TIME 1050 AKDT MAR 27 2014 1150 PDT MAR 27 2014	DEPTH	11 MILES				
NITUDE       9.1         GIN TIME       1050 AKDT MAR 27 2014         1150 PDT MAR 27 2014         1850 UTC MAR 27 2014         RDINATES       55.2 NORTH 156.7 WEST         "H       11 MILES	LOCATION	100 MILES S 485 MILES S	SE OF CHI SW OF ANC	GNIK HORAG	ALASKA E ALASKA	
NITUDE       9.1         SIN TIME       1050 AKDT MAR 27 2014         1150       PDT MAR 27 2014         1850       UTC MAR 27 2014         RDINATES       55.2 NORTH 156.7 WEST         CH       11 MILES						
NITUDE       9.1         GIN TIME       1050 AKDT MAR 27 2014         1150 PDT MAR 27 2014         1850 UTC MAR 27 2014         RDINATES       55.2 NORTH 156.7 WEST         YH       11 MILES         NTION       100 MILES SE OF CHIGNIK ALASKA						
NITUDE       9.1         SIN TIME       1050 AKDT MAR 27 2014         1150 PDT MAR 27 2014         1850 UTC MAR 27 2014         RDINATES       55.2 NORTH 156.7 WEST         YH       11 MILES         STION       100 MILES SE OF CHIGNIK ALASKA						121

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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### NTWC Bulletin #34

WEAK51 PAAQ 290302 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 34 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 702 PM AKDT FRI MAR 28 2014

THIS MESSAGE DOWNGRADES THE TSUNAMI WARNING TO AN ADVISORY FOR ALL AREAS IN CALIFORNIA AND OREGON WHICH WERE IN A WARNING.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES - UPDATED

TSUNAMI WARNING IN EFFECT FOR ...

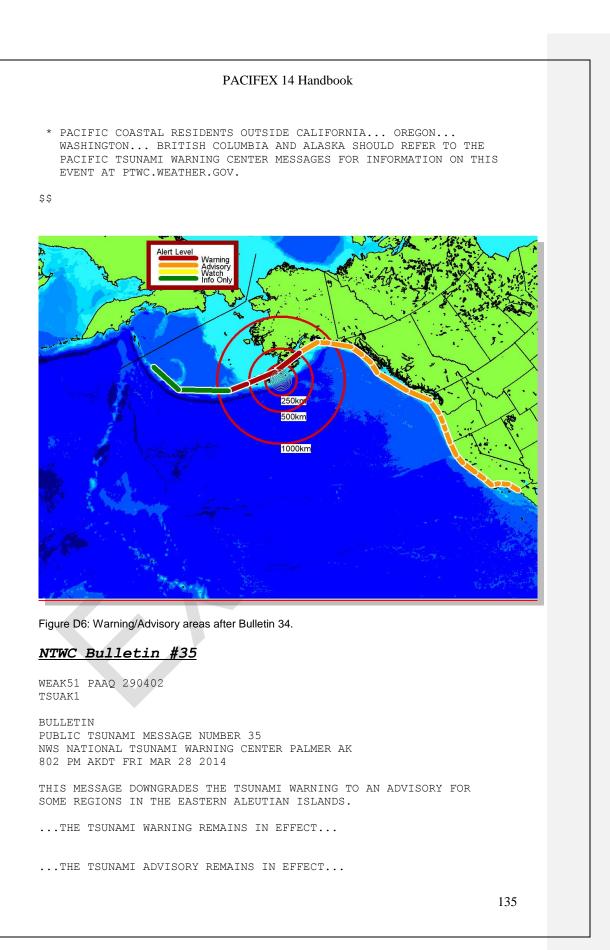
\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO NIKOLSKI ALASKA

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO POINT CONCEPTION CALIFORNIA
- \* THE COASTAL AREAS OF CALIFORNIA AND OREGON FROM POINT CONCEPTION CALIFORNIA TO DOUGLAS-LANE COUNTY LINE OREGON/10 MILES SW OF FLORENCE/
- \* THE COASTAL AREAS OF OREGON WASHINGTON BRITISH COLUMBIA AND ALASKA FROM DOUGLAS-LANE COUNTY LINE OREGON/10 MILES SW OF FLORENCE/ TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA THIS IS FOR INFORMATION ONLY.

	PACIFEX 14 Handbook	
MPACTS FOR TSUNAMI WARNI	ING AREAS	
	COASTAL FLOODING ACCOMPANIED BY POWERFUL AND MAY CONTINUE FOR MANY HOURS AFTER	
* THE FIRST WAVE MAY NOT	I BE THE LARGEST.	
MPACTS FOR TSUNAMI ADVIS	SORY AREAS	
	PRODUCING STRONG CURRENTS OR WAVES DANGERON NEAR THE WATER IS EXPECTED.	DUS
	DOUS TO SWIMMERS BOATS AND COASTAL NTINUE FOR MANY HOURS AFTER THE TSUNAMI	
* THE FIRST WAVE MAY NOT	T BE THE LARGEST.	
ECOMMENDED ACTIONS		
* IF YOU ARE IN A WARNIN	NG AREA - MOVE INLAND TO HIGHER GROUND.	
	SORY AREA - MOVE OFF THE BEACH AND OUT OF WIDESPREAD INUNDATION OF LAND IS NOT AREAS.	
* BE ALERT TO INSTRUCTIO	ONS FROM YOUR LOCAL EMERGENCY OFFICIALS.	
	ONS FROM YOUR LOCAL EMERGENCY OFFICIALS. I TO OBSERVE THE TSUNAMI.	
* DO NOT GO TO THE COAST	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGENCY OFFICIALS	
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE C INDICATE IT IS SAFE TO	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGENCY OFFICIALS O DO SO.	
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE C INDICATE IT IS SAFE TO IGNIFICANT TSUNAMI ACTIV	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGENCY OFFICIALS	
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<ul> <li>* DO NOT GO TO THE COAST</li> <li>* DO NOT RETURN TO THE CONTRIBUTION TO THE CONTRIBUTION TO THE CONTRIBUTION AND THE COAST OF THE SAME POINT AK THE COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK</li> </ul>	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGENCY OFFICIALS D DO SO. VITY IS EXPECTED TO CONTINUE FOR UP TO STILL IN A LEVEL OF ALERT. OF TSUNAMI ACTIVITY - UPDATED TIME OBSERVED MAX OF MEASUREMENT TSUNAMI HEIGH 1945 UTC 3-27 11.60 FT 2023 UTC 3-27 4.33 FT 2026 UTC 3-27 1.61 FT 2054 UTC 3-27 1.61 FT 2054 UTC 3-27 1.61 FT 2056 UTC 3-27 1.44 FT 2100 UTC 3-27 4.50 FT 2110 UTC 3-27 4.50 FT 2133 UTC 3-27 1.32 FT 2132 UTC 3-27 2.44 FT	
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	PACIFEX 14	Handt	ook	
CORDOVA AK	2225	፲፲፹ር	3-27	1.82 FT
SHEMYA AK			3-27	0.34 FT
SITKA AK			3-27	3.74 FT
CRAIG AK			3-27	3.88 FT
LANGARA BC			3-27	1.60 FT
TOFINO BC			3-27	2.41 FT
NEAH BAY WA			3-27	2.02 FT
LAPUSH WA			3-27	3.15 FT
WESTPORT WA			3-27	2.11 FT
PORT ANGELES WA			3-27	1.38 FT
GARIBALDI OR			3-27	1.05 FT
NEWPORT OR			3-27	2.46 FT
CHARLESTON OR			3-27	2.74 FT
PORT ORFORD OR			3-27	6.76 FT
CRESCENT CITY CA			3-28	7.11 FT
ARENA COVE CA			3-27	5.58 FT
EUREKA CA			3-28	4.23 FT
POINT REYES CA			3-28	3.38 FT
SAN FRANCISCO			3-28	3.71 FT
ALAMEDA CA			3-28	1.84 FT
MONTEREY CA			3-27	3.97 FT
PORT SAN LUIS CA			3-28	11.82 FT
SANTA BARBARA CA			3-28	3.32 FT
SANTA MONICA CA	0157	UTC	3-28	4.12 FT
SAN PEDRO CA	0230	UTC		3.11 FT
la jolla ca	0222	UTC	3-28	3.5 FT
SAN DIEGO CA	0214	UTC	3-28	1.74 FT
MIDWAY IS	2304	UTC	3-27	1.44 FT
NAWILIWILI HI	2323	UTC	3-27	2.20 FT
HALEIWA HI	2338	UTC	3-27	4.99 FT
HONOLULU HI	2338	UTC	3-27	2.23 FT
KAHULUI HI	2341	UTC	3-27	7.15 FT
KAWAIHAE HI	0014	UTC	3-28	2.89 FT
WAKE ISLAND	0052	UTC	3-28	0.33 FT
GUAM	0321	UTC	3-28	0.30 FT
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.46 FT
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	S SE OF CHI	GNIK	ALASKA	
	S SW OF ANC			
XT UPDATE AND ADDITIONAL	INFORMATIO	N _		
		MTNII	TES.	
THIS MESSAGE WILL BE UP	DATED IN 60	TILINO		
THIS MESSAGE WILL BE UP REFER TO THE INTERNET S INFORMATION.			A.GOV FO	r More



WARNINGS/ADVISORIES/WATCHES - UPDATED

TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA -THIS IS FOR INFORMATION ONLY.

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.

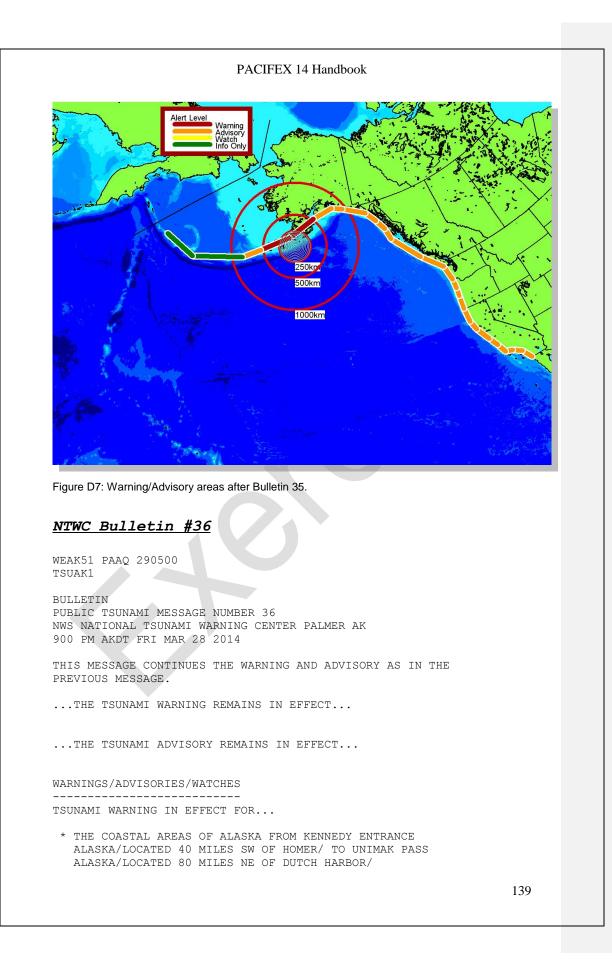
 $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 15 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

ITE	OF ME	IME ASURE		OBSERVED MAX TSUNAMI HEIGH
SAND POINT AK			3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK			3-27	4.50 FT
SEWARD AK			3-27	4.11 FT
ADAK AK			3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK			3-27	2.44 FT
PORT ALEXANDER AK			3-27	1.41 FT
CORDOVA AK	2235		3-27	1.82 FT
SHEMYA AK			3-27	0.34 FT
SITKA AK			3-27	3.74 FT
CRAIG AK			3-27	3.88 FT
LANGARA BC			3-27	1.60 FT
TOFINO BC			3-27	2.41 FT
NEAH BAY WA			3-27	2.02 FT
LAPUSH WA			3-27	3.15 FT
WESTPORT WA			3-27	2.11 FT
PORT ANGELES WA			3-27	1.38 FT
GARIBALDI OR			3-27	1.05 FT
NEWPORT OR			3-27	2.46 FT
CHARLESTON OR				2.40 FI 2.74 FT
PORT ORFORD OR			3-27 3-27	2.74 FI 6.76 FT
CRESCENT CITY CA			3-28	7.11 FT
ARENA COVE CA			3-27	5.58 FT
EUREKA CA			3-28	4.23 FT
POINT REYES CA			3-28	3.38 FT
SAN FRANCISCO			3-28	3.71 FT
ALAMEDA CA			3-28	1.84 FT
MONTEREY CA			3-27	3.97 FT
PORT SAN LUIS CA			3-28	11.82 FT
SANTA BARBARA CA			3-28	3.32 FT
SANTA MONICA CA			3-28	4.12 FT
SAN PEDRO CA			3-28	3.11 FT
la jolla ca			3-28	3.5 FT
SAN DIEGO CA			3-28	1.74 FT
MIDWAY IS			3-27	1.44 FT
NAWILIWILI HI			3-27	2.20 FT
HALEIWA HI			3-27	4.99 FT
HONOLULU HI	2338	UTC	3-27	2.23 FT
KAHULUI HI			3-27	7.15 FT
KAWAIHAE HI	0014	UTC	3-28	2.89 FT
WAKE ISLAND			3-28	0.33 FT
GUAM	0321	UTC	3-28	0.30 FT

PACIFEX 14 Handbook	
PAGO PAGO AM SAMOA 0433 UTC 3-28 0.46 FT	
HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.	
PRELIMINARY EARTHQUAKE PARAMETERS	
<ul> <li>* MAGNITUDE 9.1</li> <li>* ORIGIN TIME 9.1</li> <li>* ORIGIN TIME 1050 AKDT MAR 27 2014 1150 PDT MAR 27 2014</li> <li>* COORDINATES 55.2 NORTH 156.7 WEST</li> <li>* DEPTH 11 MILES</li> <li>* LOCATION 100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA</li> </ul>	
NEXT UPDATE AND ADDITIONAL INFORMATION	
* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.	
* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.	
SS	
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TSUNAMI ADVISORY IN EFFECT FOR ...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA THIS IS FOR INFORMATION ONLY.

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 12 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE		ASURE	MENT 	TSUNAMI HEIGH
SAND POINT AK			3-27	11.60 FT
KING COVE AK			3-27	4.33 FT
CHIGNIK AK	2026		3-27	21.82 FT
NIKOLSKI AK	2054		3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132		3-27	2.44 FT
PORT ALEXANDER AK	2114		3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK	2245		3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK	2255		3-27	3.88 FT
LANGARA BC	2300		3-27	1.60 FT
TOFINO BC	2334		3-27	2.41 FT
NEAH BAY WA	2234		3-27	2.02 FT
LAPUSH WA	2231		3-27	3.15 FT
WESTPORT WA	2302	UTC	3-27	2.11 FT
PORT ANGELES WA	2354		3-27	1.38 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT
NEWPORT OR	2309		3-27	2.46 FT
CHARLESTON OR	2333		3-27	2.40 FT 2.74 FT
PORT ORFORD OR		UTC	3-27	6.76 FT
CRESCENT CITY CA	2355 0100 2313		3-28	7.11 FT
ARENA COVE CA	2313		3-27	5.58 FT
EUREKA CA	0006	UTC	3-28	4.23 FT
POINT REYES CA	0142	UTC	3-28	4.23 FI 3.38 FT
SAN FRANCISCO	0142	UTC	3-28	3.71 FT
ALAMEDA CA	0133	UTC	3-28	1.84 FT
MONTEREY CA	2338		3-28	3.97 FT
PORT SAN LUIS CA	0108		3-28	11.82 FT
SANTA BARBARA CA	0108	UTC UTC	3-28	3.32 FT
SANTA MONICA CA	0143		3-28	4.12 FT
SAN PEDRO CA	0137		3-28	3.11 FT
LA JOLLA CA	0230	UTC		
SAN DIEGO CA	0222	UTC	3-28 3-28	3.5 FT 1.74 FT
MIDWAY IS				
	2304		3-27	1.44 FT
NAWILIWILI HI	2323		3-27	2.20 FT 4.99 FT
HALEIWA HI	2338		3-27	
HONOLULU HI			3-27	2.23 FT
KAHULUI HI			3-27	7.15 FT
KAWAIHAE HI			3-28	2.89 FT
WAKE ISLAND			3-28	0.33 FT
GUAM			3-28	0.30 FT
PAGO PAGO AM SAMOA	0433	U'IC	3-28	0.46 FT
HEIGHT - OBSERVED MAX TSUN	AMI HEIGHT	' IS T	HE WATER	LEVEL ABOVE THE

# PRELIMINARY EARTHQUAKE PARAMETERS

*	MAGNITU	JDE	9.1					
*	ORIGIN	TIME	1050	AKDT	MAR	27	2014	

1150	PDT	MAR	27	2014	
1050			~ -	0011	

- \* COORDINATES 1850 UTC MAR 27 2014 55.2 NORTH 156.7 WEST
- \* DEPTH 11 MILES
- \* LOCATION 100 MILES SE OF CHIGNIK ALASKA
  - 485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #37

WEAK51 PAAQ 290600 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 37 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1000 PM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

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TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED

	PACIFEX 14 Handbook	
80 MILES NE OF DUTCH 1	HARBOR/ TO NIKOLSKI ALASK	A
* FOR OTHER US AND CAND THIS IS FOR INFORMATIO	IAN PACIFIC COASTS IN NOR ON ONLY.	TH AMERICA -
IMPACTS FOR TSUNAMI WARN:	ING AREAS	
	COASTAL FLOODING ACCOMPAN AND MAY CONTINUE FOR MANY	
* THE FIRST WAVE MAY NO	T BE THE LARGEST.	
IMPACTS FOR TSUNAMI ADVI:		
	PRODUCING STRONG CURRENTS NEAR THE WATER IS EXPECT	
	DOUS TO SWIMMERS BOATS NTINUE FOR MANY HOURS AFT	
* THE FIRST WAVE MAY NO	T BE THE LARGEST.	
RECOMMENDED ACTIONS		
	NG AREA - MOVE INLAND TO	HIGHER GROUND.
	SORY AREA - MOVE OFF THE WIDESPREAD INUNDATION OF AREAS.	
* BE ALERT TO INSTRUCTIO	ONS FROM YOUR LOCAL EMERG	ENCY OFFICIALS.
	ONS FROM YOUR LOCAL EMERG T TO OBSERVE THE TSUNAMI.	ENCY OFFICIALS.
* DO NOT GO TO THE COAS	T TO OBSERVE THE TSUNAMI.	
* DO NOT GO TO THE COAS * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO	T TO OBSERVE THE TSUNAMI.	CY OFFICIALS
* DO NOT GO TO THE COAS * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT	CY OFFICIALS
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS ( SITE SAND POINT AK	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT 	CY OFFICIALS ATED  OBSERVED MAX TSUNAMI HEIGHT 
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS ( SITE SAND POINT AK KING COVE AK	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT 	CY OFFICIALS ATED  OBSERVED MAX TSUNAMI HEIGHT 
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS ( SITE SAND POINT AK KING COVE AK CHIGNIK AK	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27	CY OFFICIALS ATED  OBSERVED MAX TSUNAMI HEIGHT 
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS ( SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27	CY OFFICIALS ATED  OBSERVED MAX TSUNAMI HEIGHT  11.60 FT 4.33 FT 21.82 FT 1.61 FT
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS ( SITE SAND POINT AK KING COVE AK CHIGNIK AK	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27	CY OFFICIALS ATED  OBSERVED MAX TSUNAMI HEIGHT 
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS ( SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT 	CY OFFICIALS ATED  OBSERVED MAX TSUNAMI HEIGHT 
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS ( SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK SEWARD AK ADAK AK	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT 	CY OFFICIALS ATED OBSERVED MAX TSUNAMI HEIGHT  11.60 FT 4.33 FT 21.82 FT 1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT
* DO NOT GO TO THE COAST * DO NOT RETURN TO THE ( INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS ( SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK	T TO OBSERVE THE TSUNAMI. COAST UNTIL LOCAL EMERGEN O DO SO. OF TSUNAMI ACTIVITY - UPD TIME OF MEASUREMENT 	CY OFFICIALS ATED  OBSERVED MAX TSUNAMI HEIGHT  11.60 FT 4.33 FT 21.82 FT 1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT
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]	PACIFEX 14	Handb	ook	
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
CORDOVA AK	2235		3-27	1.82 FT
SHEMYA AK	2245		3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK	2255	UTC	3-27	3.88 FT
LANGARA BC	2300	UTC	3-27	1.60 FT
TOFINO BC	2334		3-27	2.41 FT
NEAH BAY WA	2234		3-27	2.02 FT
LAPUSH WA	2241		3-27	3.15 FT
WESTPORT WA	2302		3-27	2.11 FT
PORT ANGELES WA GARIBALDI OR	2354 2259	UTC UTC	3-27 3-27	1.38 FT 1.05 FT
NEWPORT OR	2309		3-27	2.46 FT
CHARLESTON OR	2333	UTC	3-27	2.10 FT
PORT ORFORD OR	2355		3-27	6.76 FT
CRESCENT CITY CA	0100	UTC	3-28	7.11 FT
ARENA COVE CA	2313	UTC	3-27	5.58 FT
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SAN FRANCISCO	0155		3-28	3.71 FT
ALAMEDA CA	0141		3-28	1.84 FT
MONTEREY CA PORT SAN LUIS CA	2338 0108		3-27 3-28	3.97 FT 11.82 FT
SANTA BARBARA CA	0108		3-28	3.32 FT
SANTA MONICA CA	0143	UTC	3-28	4.12 FT
SAN PEDRO CA	0230		3-28	3.11 FT
LA JOLLA CA	0222		3-28	3.5 FT
SAN DIEGO CA	0214	UTC	3-28	1.74 FT
MIDWAY IS	2304	UTC	3-27	1.44 FT
NAWILIWILI HI	2323	UTC	3-27	2.20 FT
HALEIWA HI	2338		3-27	4.99 FT
HONOLULU HI	2338		3-27	2.23 FT
KAHULUI HI KAWAIHAE HI	2341 0014		3-27 3-28	7.15 FT 2.89 FT
WAKE ISLAND	0014		3-28	0.33 FT
GUAM	0321		3-28	0.30 FT
PAGO PAGO AM SAMOA	0433		3-28	0.46 FT
EIGHT - OBSERVED MAX TSUN TIDE LEVEL AT THE ELIMINARY EARTHQUAKE PARA	TIME OF M			R LEVEL ABOVE THE
MAGNITUDE 9.1				
	' MAR 27 20	14		
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COORDINATES 55.2 NORT	H 156.7 WE	ST		
DEPTH 11 MILES				
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XT UPDATE AND ADDITIONAL	INFORMATIO	N		
THIS MESSAGE WILL BE UPD	ATED IN 60	- MINU	TES.	
REFER TO THE INTERNET SI	TE NTWC.AR	.H.NOA	A.GOV FC	DR MORE

INFORMATION.

\* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #38

WEAK51 PAAQ 290700 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 38 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1100 PM AKDT FRI MAR 28 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
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#### IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

	PACIFEX 14 Handbook	
MPACTS FOR TSUNAMI ADVISO	RY AREAS	
* A TSUNAMI CAPABLE OF PR TO PERSONS IN OR VERY N		
* CURRENTS MAY BE HAZARDO STRUCTURES AND MAY CONT ARRIVAL.		
* THE FIRST WAVE MAY NOT	BE THE LARGEST.	
ECOMMENDED ACTIONS		
* IF YOU ARE IN A WARNING	AREA - MOVE INLAND TO	O HIGHER GROUND.
* IF YOU ARE IN AN ADVISO HARBORS AND MARINAS. W EXPECTED FOR ADVISORY A	IDESPREAD INUNDATION	
* BE ALERT TO INSTRUCTION	S FROM YOUR LOCAL EME	RGENCY OFFICIALS.
* DO NOT GO TO THE COAST	TO OBSERVE THE TSUNAM	Ι.
* DO NOT RETURN TO THE CO.		ENCY OFFICIALS
INDICATE IT IS SAFE TO		PDATED
INDICATE IT IS SAFE TO		OBSERVED MAX
ADDITIONAL OBSERVATIONS OF	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
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DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27 2145 UTC 3-27 2133 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27 2145 UTC 3-27 2133 UTC 3-27 2132 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27 2145 UTC 3-27 2133 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27 2145 UTC 3-27 2133 UTC 3-27 2132 UTC 3-27 2114 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK	TSUNAMI ACTIVITY - U TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27 2145 UTC 3-27 2133 UTC 3-27 2132 UTC 3-27 2114 UTC 3-27 2235 UTC 3-27 2245 UTC 3-27 2222 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK	TSUNAMI ACTIVITY - UT TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27 2145 UTC 3-27 2133 UTC 3-27 2132 UTC 3-27 2132 UTC 3-27 2235 UTC 3-27 2225 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
DDITIONAL OBSERVATIONS OF SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC	TSUNAMI ACTIVITY - UT TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27 2145 UTC 3-27 2133 UTC 3-27 2134 UTC 3-27 2132 UTC 3-27 2235 UTC 3-27 2245 UTC 3-27 2255 UTC 3-27 2300 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 
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SITE SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA	TSUNAMI ACTIVITY - UT TIME OF MEASUREMENT 1945 UTC 3-27 2023 UTC 3-27 2026 UTC 3-27 2054 UTC 3-27 2056 UTC 3-27 2100 UTC 3-27 2110 UTC 3-27 2133 UTC 3-27 2132 UTC 3-27 2134 UTC 3-27 2235 UTC 3-27 2245 UTC 3-27 2245 UTC 3-27 2245 UTC 3-27 2255 UTC 3-27 2334 UTC 3-27 2334 UTC 3-27 2234 UTC 3-27 2241 UTC 3-27 2302 UTC 3-27 2302 UTC 3-27 2354 UTC 3-27	OBSERVED MAX TSUNAMI HEIGHT 

	PACIFEX 14	Handb	ook		
CHARLESTON OR			3-27		
PORT ORFORD OR			3-27	6.76 FT	
CRESCENT CITY CA			3-28	7.11 FT	
ARENA COVE CA			3-27		
EUREKA CA			3-28 3-28	4.23 FT	
POINT REYES CA					
SAN FRANCISCO ALAMEDA CA			3-28 3-28	3.71 FT 1.84 FT	
MONTEREY CA			3-27		
PORT SAN LUIS CA			3-28	11.82 FT	
SANTA BARBARA CA			3-28	3.32 FT	
SANTA MONICA CA			3-28		
SAN PEDRO CA			3-28	3.11 FT	
LA JOLLA CA			3-28	3.5 FT	
SAN DIEGO CA			3-28	1.74 FT	
MIDWAY IS			3-27	1.44 FT	
NAWILIWILI HI	2323			2.20 FT	
HALEIWA HI	2338	UTC	3-27	4.99 FT	
HONOLULU HI		UTC		2.23 FT	
KAHULUI HI	2341	UTĈ	3-27	7.15 FT	
KAWAIHAE HI	0014	UTC	3-28	2.89 FT	
WAKE ISLAND	0052			0.33 FT	
GUAM	0321			0.30 FT	
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.46 FT	
TIDE LEVEL AT RELIMINARY EARTHQUAKE * MAGNITUDE 9.1 * ORIGIN TIME 1050	THE TIME OF M PARAMETERS  AKDT MAR 27 20	ieasuri 14		R LEVEL ABOVE THE	
RELIMINARY EARTHQUAKE * MAGNITUDE 9.1 * ORIGIN TIME 1050 1150 1850 * COORDINATES 55.2 * DEPTH 11 MI * LOCATION 100 M 485 M	THE TIME OF M PARAMETERS  AKDT MAR 27 20 PDT MAR 27 20 UTC MAR 27 20 NORTH 156.7 WE LES ILES SE OF CHI ILES SW OF ANC	14 14 14 ST GNIK 2 HORAGE	ement. Alaska		
TIDE LEVEL AT RELIMINARY EARTHQUAKE * MAGNITUDE 9.1 * ORIGIN TIME 1050 1150 1850 * COORDINATES 55.2 * DEPTH 11 MI * LOCATION 100 M 485 M EXT UPDATE AND ADDITIO	THE TIME OF M PARAMETERS  AKDT MAR 27 20 PDT MAR 27 20 UTC MAR 27 20 NORTH 156.7 WE LES ILES SE OF CHI ILES SW OF ANC NAL INFORMATIO	14 14 14 ST GNIK 2 HORAGI	ement. Alaska E Alaska		
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TIDE LEVEL AT RELIMINARY EARTHQUAKE * MAGNITUDE 9.1 * ORIGIN TIME 1050 1150 1850 * COORDINATES 55.2 * DEPTH 11 MI * LOCATION 100 M 485 M EXT UPDATE AND ADDITIO * THIS MESSAGE WILL BE	THE TIME OF M PARAMETERS  AKDT MAR 27 20 PDT MAR 27 20 UTC MAR 27 20 NORTH 156.7 WE LES ILES SE OF CHI ILES SW OF ANC NAL INFORMATIO UPDATED IN 60	14 14 14 ST GNIK 2 HORAGI	ALASKA E ALASKA FES.	A	
TIDE LEVEL AT RELIMINARY EARTHQUAKE * MAGNITUDE 9.1 * ORIGIN TIME 1050 1150 1850 * COORDINATES 55.2 * DEPTH 11 MI * LOCATION 100 M 485 M EXT UPDATE AND ADDITIO * THIS MESSAGE WILL BE * REFER TO THE INTERNE	THE TIME OF M PARAMETERS AKDT MAR 27 20 PDT MAR 27 20 UTC MAR 27 20 NORTH 156.7 WE LES ILES SE OF CHI ILES SW OF ANC NAL INFORMATIO UPDATED IN 60 T SITE NTWC.AR DENTS OUTSIDE H COLUMBIA AND ING CENTER MES	14 14 14 14 14 ST GNIK 2 HORAGI N H.NOA CALIF( ALAS)	ALASKA E ALASKA FES. A.GOV FO DRNIA KA SHOUI	A DR MORE . OREGON LD REFER TO THE	
TIDE LEVEL AT RELIMINARY EARTHQUAKE * MAGNITUDE 9.1 * ORIGIN TIME 1050 1150 1850 * COORDINATES 55.2 * DEPTH 11 MI * LOCATION 100 M 485 M EXT UPDATE AND ADDITIO * THIS MESSAGE WILL BE * REFER TO THE INTERNE INFORMATION. * PACIFIC COASTAL RESI WASHINGTON BRITIS PACIFIC TSUNAMI WARN EVENT AT PTWC.WEATHE	THE TIME OF M PARAMETERS AKDT MAR 27 20 PDT MAR 27 20 UTC MAR 27 20 NORTH 156.7 WE LES ILES SE OF CHI ILES SW OF ANC NAL INFORMATIO UPDATED IN 60 T SITE NTWC.AR DENTS OUTSIDE H COLUMBIA AND ING CENTER MES	14 14 14 14 14 ST GNIK 2 HORAGI N H.NOA CALIF( ALAS)	ALASKA E ALASKA FES. A.GOV FO DRNIA KA SHOUI	A DR MORE . OREGON LD REFER TO THE	
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TIDE LEVEL AT RELIMINARY EARTHQUAKE * MAGNITUDE 9.1 * ORIGIN TIME 1050 1150 1850 * COORDINATES 55.2 * DEPTH 11 MI * LOCATION 100 M 485 M EXT UPDATE AND ADDITIO * THIS MESSAGE WILL BE * REFER TO THE INTERNE INFORMATION. * PACIFIC COASTAL RESI WASHINGTON BRITIS PACIFIC TSUNAMI WARN	THE TIME OF M PARAMETERS AKDT MAR 27 20 PDT MAR 27 20 UTC MAR 27 20 NORTH 156.7 WE LES ILES SE OF CHI ILES SW OF ANC NAL INFORMATIO UPDATED IN 60 T SITE NTWC.AR DENTS OUTSIDE H COLUMBIA AND ING CENTER MES	14 14 14 14 14 ST GNIK 2 HORAGI N H.NOA CALIF( ALAS)	ALASKA E ALASKA FES. A.GOV FO DRNIA KA SHOUI	A DR MORE . OREGON LD REFER TO THE	
TIDE LEVEL AT RELIMINARY EARTHQUAKE * MAGNITUDE 9.1 * ORIGIN TIME 1050 1150 1850 * COORDINATES 55.2 * DEPTH 11 MI * LOCATION 100 M 485 M EXT UPDATE AND ADDITIO * THIS MESSAGE WILL BE * REFER TO THE INTERNE INFORMATION. * PACIFIC COASTAL RESI WASHINGTON BRITIS PACIFIC TSUNAMI WARN EVENT AT PTWC.WEATHE \$ <b>TTWC Bulletin #39</b> EAK51 PAAQ 290800	THE TIME OF M PARAMETERS AKDT MAR 27 20 PDT MAR 27 20 UTC MAR 27 20 NORTH 156.7 WE LES ILES SE OF CHI ILES SW OF ANC NAL INFORMATIO UPDATED IN 60 T SITE NTWC.AR DENTS OUTSIDE H COLUMBIA AND ING CENTER MES	14 14 14 14 14 ST GNIK 2 HORAGI N H.NOA CALIF( ALAS)	ALASKA E ALASKA FES. A.GOV FO DRNIA KA SHOUI	A DR MORE . OREGON LD REFER TO THE	

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 39 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1200 AM AKDT SAT MAR 29 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES

TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA THIS IS FOR INFORMATION ONLY.

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

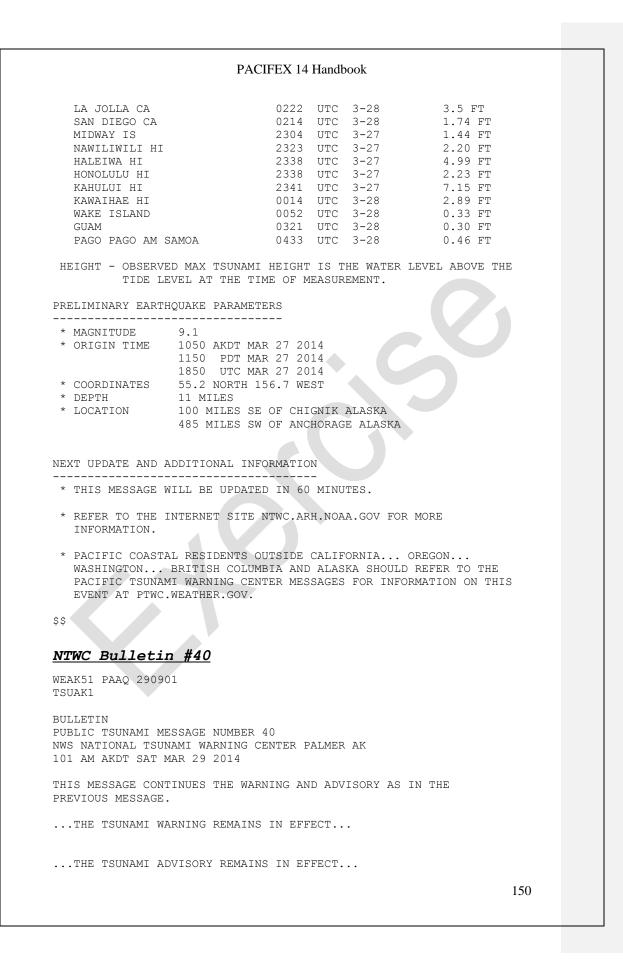
- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS

- $\star$  IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- $\star$  do not go to the coast to observe the tsunami.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE		IME ASURE	MENT	OBSERVED MAX TSUNAMI HEIGHT
SAND POINT AK	1945	UTC	3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK	2245		3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK	2255	UTC	3-27	3.88 FT
LANGARA BC	2300	UTC	3-27	1.60 FT
TOFINO BC	2334	UTC	3-27	2.41 FT
NEAH BAY WA	2234	UTC		2.02 FT
LAPUSH WA	2241	UTC	3-27	3.15 FT
WESTPORT WA	2302	UTC	3-27	2.11 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT
NEWPORT OR			3-27	2.46 FT
CHARLESTON OR	2333	UTC	3-27	2.74 FT
PORT ORFORD OR	2355		3-27	6.76 FT
CRESCENT CITY CA	0100	UTC	3-28	7.11 FT
ARENA COVE CA	2313	UTC	3-27	5.58 FT
EUREKA CA	0006	UTC		4.23 FT
POINT REYES CA	0142	UTC	3-28	3.38 FT
SAN FRANCISCO	0155	UTC	3-28	3.71 FT
ALAMEDA CA	0141	UTC	3-28	1.84 FT
MONTEREY CA	2338	UTC	3-27	3.97 FT
PORT SAN LUIS CA	0108		3-28	11.82 FT
SANTA BARBARA CA	0145	UTC	3-28	3.32 FT
SANTA MONICA CA	0157	UTC	3-28	4.12 FT
SAN PEDRO CA	0230	UTC	3-28	3.11 FT



# PACIFEX 14 Handbook WARNINGS/ADVISORIES/WATCHES TSUNAMI WARNING IN EFFECT FOR ... \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TSUNAMI ADVISORY IN EFFECT FOR ... \* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA -THIS IS FOR INFORMATION ONLY. IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_ \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. IMPACTS FOR TSUNAMI ADVISORY AREAS -----\* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. 151

 $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 9 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

TE	OF ME	IME ASURE		OBSERVED MAX TSUNAMI HEIGH
SAND POINT AK			3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK			3-27	4.11 FT
ADAK AK	2145	UTĈ	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK	2245		3-27	0.34 FT
SITKA AK	2222		3-27	3.74 FT
CRAIG AK			3-27	3.88 FT
LANGARA BC			3-27	1.60 FT
TOFINO BC			3-27	2.41 FT
NEAH BAY WA			3-27	2.02 FT
LAPUSH WA			3-27	3.15 FT
WESTPORT WA			3-27	2.11 FT
PORT ANGELES WA			3-27	1.38 FT
GARIBALDI OR			3-27	1.05 FT
NEWPORT OR			3-27	2.46 FT
CHARLESTON OR			3-27	2.10 FT 2.74 FT
PORT ORFORD OR			3-27	6.76 FT
CRESCENT CITY CA			3-28	7.11 FT
ARENA COVE CA			3-27	5.58 FT
EUREKA CA			3-28	4.23 FT
POINT REYES CA			3-28	3.38 FT
SAN FRANCISCO			3-28	3.71 FT
ALAMEDA CA			3-28	1.84 FT
MONTEREY CA			3-27	3.97 FT
PORT SAN LUIS CA			3-28	11.82 FT
SANTA BARBARA CA			3-28	3.32 FT
SANTA MONICA CA			3-28	4.12 FT
SAN IA MONICA CA SAN PEDRO CA			3-28	4.12 FI 3.11 FT
LA JOLLA CA			3-28	3.5 FT
			3-28 3-28	3.5 FT 1.74 FT
SAN DIEGO CA			3-20	
MIDWAY IS				1.44 FT
NAWILIWILI HI			3-27	2.20 FT
HALEIWA HI			3-27	4.99 FT
HONOLULU HI			3-27	2.23 FT
KAHULUI HI	2341	U'I'C	3-27 3-28	7.15 FT
KAWAIHAE HI				2.89 FT
WAKE ISLAND			3-28	0.33 FT
GUAM	0321	UTC	3-28	0.30 FT

	PACIFEX 14 Handbook	
PAGO PAGO AM	SAMOA 0433 UTC 3-28 0.46 FT	
	/ED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE LEVEL AT THE TIME OF MEASUREMENT.	
PRELIMINARY EARI	THQUAKE PARAMETERS	
* MAGNITUDE	9.1	
* ORIGIN TIME	1050 AKDT MAR 27 2014 1150 PDT MAR 27 2014	
<ul><li>COORDINATES</li><li>DEPTH</li></ul>	1850 UTC MAR 27 2014 55.2 NORTH 156.7 WEST 11 MILES	
* LOCATION	100 MILES SE OF CHIGNIK ALASKA 485 MILES SW OF ANCHORAGE ALASKA	
NEXT UPDATE AND	ADDITIONAL INFORMATION	
* THIS MESSAGE	WILL BE UPDATED IN 60 MINUTES.	
* REFER TO THE INFORMATION.	INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE	
WASHINGTON PACIFIC TSUNA	TAL RESIDENTS OUTSIDE CALIFORNIA OREGON BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE AMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS C.WEATHER.GOV.	
\$\$		
	- H 4 1	
NTWC Bulleti		
<b>NTWC Bulleti</b> WEAK51 PAAQ 2910 TSUAK1 BULLETIN PUBLIC TSUNAMI M	MESSAGE NUMBER 41 JNAMI WARNING CENTER PALMER AK	
<b>NTWC Bulleti</b> WEAK51 PAAQ 2910 TSUAK1 BULLETIN PUBLIC TSUNAMI M NWS NATIONAL TSU 200 AM AKDT SAT	MESSAGE NUMBER 41 JNAMI WARNING CENTER PALMER AK MAR 29 2014 NTINUES THE WARNING AND ADVISORY AS IN THE	
NTWC Bulleti WEAK51 PAAQ 2910 TSUAK1 BULLETIN PUBLIC TSUNAMI M NWS NATIONAL TSU 200 AM AKDT SAT THIS MESSAGE CON PREVIOUS MESSAGE	MESSAGE NUMBER 41 JNAMI WARNING CENTER PALMER AK MAR 29 2014 NTINUES THE WARNING AND ADVISORY AS IN THE	
NTWC Bulleti WEAK51 PAAQ 2910 TSUAK1 BULLETIN PUBLIC TSUNAMI M NWS NATIONAL TSU 200 AM AKDT SAT THIS MESSAGE CON PREVIOUS MESSAGE	MESSAGE NUMBER 41 JNAMI WARNING CENTER PALMER AK MAR 29 2014 NTINUES THE WARNING AND ADVISORY AS IN THE E.	
NTWC Bulleti WEAK51 PAAQ 2910 TSUAK1 BULLETIN PUBLIC TSUNAMI M NWS NATIONAL TSU 200 AM AKDT SAT THIS MESSAGE CON PREVIOUS MESSAGE THE TSUNAMI W	MESSAGE NUMBER 41 JNAMI WARNING CENTER PALMER AK MAR 29 2014 NTINUES THE WARNING AND ADVISORY AS IN THE E.	
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NTWC Bulleti WEAK51 PAAQ 2910 TSUAK1 BULLETIN PUBLIC TSUNAMI M NWS NATIONAL TSU 200 AM AKDT SAT THIS MESSAGE CON PREVIOUS MESSAGE THE TSUNAMI M THE TSUNAMI M MARNINGS/ADVISOF TSUNAMI WARNING * THE COASTAL A ALASKA/LOCATE	MESSAGE NUMBER 41 JNAMI WARNING CENTER PALMER AK MAR 29 2014 WIINUES THE WARNING AND ADVISORY AS IN THE E. WARNING REMAINS IN EFFECT ADVISORY REMAINS IN EFFECT	
NTWC Bulleti WEAK51 PAAQ 2910 TSUAK1 BULLETIN PUBLIC TSUNAMI M NWS NATIONAL TSU 200 AM AKDT SAT THIS MESSAGE CON PREVIOUS MESSAGE THE TSUNAMI M THE TSUNAMI M MARNINGS/ADVISOF TSUNAMI WARNING * THE COASTAL A ALASKA/LOCATE	AESSAGE NUMBER 41 MARNING CENTER PALMER AK MAR 29 2014 WTINUES THE WARNING AND ADVISORY AS IN THE E. WARNING REMAINS IN EFFECT ADVISORY REMAINS IN EFFECT RIES/WATCHES IN EFFECT FOR AREAS OF ALASKA FROM KENNEDY ENTRANCE ED 40 MILES SW OF HOMER/ TO UNIMAK PASS	

TSUNAMI ADVISORY IN EFFECT FOR ...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA -THIS IS FOR INFORMATION ONLY.

IMPACTS FOR TSUNAMI WARNING AREAS \_\_\_\_\_

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### IMPACTS FOR TSUNAMI ADVISORY AREAS ------

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS ------

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 9 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED \_\_\_\_\_ \_\_\_\_\_ OBSERVED MAX

TIME

ITE 		OF ME	ASURE		TSUNAMI HEIGHT
SAND POINT AK		1945	UTC	3-27	11.60 FT
KING COVE AK		2023	UTC	3-27	4.33 FT
CHIGNIK AK		2026	UTC	3-27	21.82 FT
NIKOLSKI AK		2054	UTC	3-27	1.61 FT
UNALASKA AK		2056	UTC	3-27	1.44 FT
KODIAK AK		2100	UTC	3-27	4.50 FT
SEWARD AK		2110	UTC	3-27	4.11 FT
ADAK AK		2145		3-27	1.03 FT
ELFIN COVE AK		2133	UTC	3-27	1.32 FT
YAKUTAT AK		2132	UTC	3-27	2.44 FT
PORT ALEXANDER	AK	2114	UTC	3-27	1.41 FT
CORDOVA AK		2235	UTC	3-27	1.82 FT
SHEMYA AK		2245	UTC		0.34 FT
SITKA AK		2222	UTC	3-27	3.74 FT
CRAIG AK		2255	UTC	3-27	3.88 FT
LANGARA BC		2300		3-27	1.60 FT
TOFINO BC		2334	UTC	3-27	2.41 FT
NEAH BAY WA		2334		3-27	2.41 F1 2.02 FT
LAPUSH WA		2234		3-27	3.15 FT
WESTPORT WA		2241		3-27	2.11 FT
PORT ANGELES W	Δ	2302	UTC	3-27	2.11 F1 1.38 FT
GARIBALDI OR	A	2354		3-27	1.30 FI 1.05 FT
NEWPORT OR				3-27	2.46 FT
CHARLESTON OR		2309 2333	UIC	3-27	2.46 F1 2.74 FT
PORT ORFORD OR		2355	UIC		6.76 FT
CRESCENT CITY				3-27	0.70 FI 7.11 FT
	CA	0100	UTC		
ARENA COVE CA		2313		3-27	5.58 FT
EUREKA CA		0006	UTC	3-28	4.23 FT
POINT REYES CA		0142	UTC	3-28	3.38 FT
SAN FRANCISCO		0155		3-28	3.71 FT
ALAMEDA CA		0141	UTC	3-28	1.84 FT
MONTEREY CA		2338	UTC	3-27	3.97 FT
PORT SAN LUIS		0108	UTC		11.82 FT
SANTA BARBARA		0145	UTC	3-28	3.32 FT
SANTA MONICA C	A	0157	UTC	3-28	4.12 FT
SAN PEDRO CA		0230	UTC		3.11 FT
la jolla ca		0222	UTC	3-28	3.5 FT
SAN DIEGO CA		0214	UTC	3-28	1.74 FT
MIDWAY IS		2304	UTC	3-27	1.44 FT
NAWILIWILI HI		2323	UTC	3-27	2.20 FT
HALEIWA HI		2338	UTC	3-27	4.99 FT
HONOLULU HI		2338	UTC	3-27	2.23 FT
KAHULUI HI				3-27	7.15 FT
KAWAIHAE HI				3-28	
WAKE ISLAND		0052	UTC	3-28 3-28	0.33 FT
GUAM		0321	UTC	3-28	0.30 FT
PAGO PAGO AM S	AMOA	0433	UTC	3-28	0.46 FT
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	U PD'I' M	$AK \land / \land \cup$			
	1150 PDT M	AR 27 20	14		

1850	TIMO	MAD	27	2014	
1000	010	MAR	27	2014	

- \* COORDINATES 55.2 NORTH 156.7 WEST
- \* DEPTH
- 11 MILES \* LOCATION 100 MILES SE OF CHIGNIK ALASKA
  - 485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION \_\_\_\_\_

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON.. WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #42

WEAK51 PAAQ 291101 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 42 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 301 AM AKDT SAT MAR 29 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

#### WARNINGS/ADVISORIES/WATCHES \_\_\_\_\_

TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED

	PACIFEX 14	Handbo	ook		
80 MILES NE OF DUTCH H	HARBOR/ TO NI	KOLSKI	ALASKA		
* FOR OTHER US AND CAND THIS IS FOR INFORMATIC		CASTS	IN NORT	H AMERICA -	
IMPACTS FOR TSUNAMI WARNI	ING AREAS				
* WIDESPREAD DANGEROUS C CURRENTS IS POSSIBLE A TSUNAMI ARRIVAL.					
* THE FIRST WAVE MAY NOT	G BE THE LARG	EST.			
IMPACTS FOR TSUNAMI ADVIS	SORY AREAS				
* A TSUNAMI CAPABLE OF H TO PERSONS IN OR VERY					
* CURRENTS MAY BE HAZARI STRUCTURES AND MAY CON ARRIVAL.					
* THE FIRST WAVE MAY NOT	G BE THE LARG	EST.			
RECOMMENDED ACTIONS					
* IF YOU ARE IN A WARNIN	IG AREA - MOV	'E INLA	ND TO H	IGHER GROUND.	
* IF YOU ARE IN AN ADVIS HARBORS AND MARINAS. EXPECTED FOR ADVISORY	WIDESPREAD I				
* BE ALERT TO INSTRUCTIO	ONS FROM YOUR	LOCAL	EMERGE	NCY OFFICIALS.	
* DO NOT GO TO THE COAST	TO OBSERVE	THE TS	UNAMI.		
* DO NOT RETURN TO THE O INDICATE IT IS SAFE TO ADDITIONAL OBSERVATIONS O	DO SO.				
SITE	OF ME	'IME CASUREM	ENT	OBSERVED MAX TSUNAMI HEIGHT	
SAND POINT AK KING COVE AK CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK	1945 2023 2026 2054 2056 2100 2110 2145 2133	UTC UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27 3-27 3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT	
				157	

PORT ALEXANDER AK         2114         UTC         3-27         1.41         FT           CORDOVA AK         2235         UTC         3-27         1.42         FT           SHEMA AK         2245         UTC         3-27         1.42         FT           SHEMA AK         2225         UTC         3-27         3.64         FT           CRAIG AK         2255         UTC         3-27         3.68         FT           LANGARA BC         2334         UTC         3-27         2.02         FT           LARUSH WA         2241         UTC         3-27         2.03         FT           DARUSH WA         2241         UTC         3-27         2.04         FT           OPAT ADECLES WA         2354         UTC         3-27         1.05         FT           MENPORT OR         2333         UTC         3-27         2.64         FT           CRARDACOVE CR         2355         UTC         3-27         6.76         FT           CRESCENT CITY CA         0100         UTC         3-28         7.11         FT           ARENA COVE CA         2313         UTC         3-27         5.68         FT           CINTR	PACIFEX 14 Handbook																																																																																																																																																																																		
CORDOVA AK         2235         UTC         3-27         1.82         FT           SHEMYA AK         2245         UTC         3-27         0.34         FT           STRKA AK         2222         UTC         3-27         0.36         FT           CRAIG AK         2255         UTC         3-27         1.60         FT           CARAGA BC         2300         UTC         3-27         2.61         FT           DARAB BC         2344         UTC         3-27         2.61         FT           NEAH BAY WA         2324         UTC         3-27         2.18         FT           ORT ANGELSS WA         2354         UTC         3-27         1.68         FT           MEMPORT OR         2309         UTC         3-27         2.74         FT           CRASCENT CITY CA         0100         UTC         3-28         7.11         FT           PORT ORGOD OR         2333         UTC         3-27         5.58         FT           CRESCENT CITY CA         0100         UTC         3-28         3.38         FT           SAN FANCISCO         0155         UTC         3-28         3.32         FT           SANTA M	PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT																																																																																																																																																																														
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ELIMINARY EARTHQUAKE PARAMETERS         MAGNITUDE       9.1       ORIGIN TIME       1050       AKDT MAR 27       2014         ORIGIN TIME       1050       AKDT MAR 27       2014       1850       UTC MAR 27       2014         COORDINATES       55.2       NORTH 156.7       WEST       DEPTH       11       MILES         LOCATION       100       MILES SE OF CHIGNIK ALASKA       485       MILES SW OF ANCHORAGE ALASKA         KT UPDATE AND ADDITIONAL INFORMATION       TORMATION       TORMATED       TORMATED         THIS MESSAGE WILL BE UPDATED IN 60       MINUTES.       MINUTES.       EVENT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>PAGO PAGO AM SAMOA 0433 UTC 3-28 0.46 FT EIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT. 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INFORMATION.

\* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #43

WEAK51 PAAQ 291200 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 43 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 400 AM AKDT SAT MAR 29 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/

TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA THIS IS FOR INFORMATION ONLY.

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

#### PACIFEX 14 Handbook IMPACTS FOR TSUNAMI ADVISORY AREAS \_\_\_\_\_ \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS \_\_\_\_\_ \* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND. \* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI. \* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 6 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT. ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED -----TTME OBSERVED MAX OF MEASUREMENT TSUNAMI HEIGHT SAND POINT AK \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ 1945 UTC 3-27 11.60 FT KING COVE AK 2023 UTC 3-27 4.33 FT CHIGNIK AK 2026 UTC 3-27 21.82 FT NIKOLSKI AK 1.61 FT 2054 UTC 3-27 2056 UTC 3-27 UNALASKA AK 1.44 FT KODIAK AK 2100 UTC 3-27 4.50 FT SEWARD AK 2110 UTC 3-27 4.11 FT 2145 UTC 3-27 2133 UTC 3-27 ADAK AK 1.03 FT ELFIN COVE AK 1.32 FT 2132 UTC 3-27 YAKUTAT AK 2.44 FT PORT ALEXANDER AK 2114 UTC 3-27 1.41 FT 2235 UTC 3-27 CORDOVA AK 1.82 FT 2245 UTC 3-27 SHEMYA AK 0.34 FT 2222 UTC 3-27 SITKA AK 3.74 FT 2255 UTC 3-27 CRAIG AK 3.88 FT 2300 UTC 3-27 2334 UTC 3-27 LANGARA BC 1.60 FT TOFINO BC 2.41 FT 2234 UTC 3-27 NEAH BAY WA 2.02 FT 2241 UTC 3-27 2302 UTC 3-27 LAPUSH WA 3.15 FT WESTPORT WA 2.11 FT

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ARENA COVE CA			3-27	5.58 FT
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POINT REYES CA			3-28	3.38 FT
SAN FRANCISCO			3-28	3.71 FT
ALAMEDA CA	0141			1.84 FT
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## NTWC Bulletin #44

WEAK51 PAAQ 291300 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 44 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 500 AM AKDT SAT MAR 29 2014

THIS MESSAGE CONTINUES THE WARNING AND ADVISORY AS IN THE PREVIOUS MESSAGE.

...THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

#### 

\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/

### TSUNAMI ADVISORY IN EFFECT FOR...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA THIS IS FOR INFORMATION ONLY.

#### IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

# IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI

I	PACIFEX 14	Handb	ook	
ARRIVAL.				
* THE FIRST WAVE MAY NOT E	BE THE LARC	GEST.		
ECOMMENDED ACTIONS				
* IF YOU ARE IN A WARNING	AREA - MOV	/E INL	AND TO H	HIGHER GROUND.
* IF YOU ARE IN AN ADVISOR HARBORS AND MARINAS. WI EXPECTED FOR ADVISORY AR	DESPREAD			
* BE ALERT TO INSTRUCTIONS	FROM YOUF	R LOCA	L EMERGE	NCY OFFICIALS.
* DO NOT GO TO THE COAST I	O OBSERVE	THE T	SUNAMI.	
* DO NOT RETURN TO THE COA		OCAT	EMEDCENC	Y OFFICIALS
INDICATE IT IS SAFE TO D		LOCAL	EMERGENC	I OFFICIALS
DDITIONAL OBSERVATIONS OF	TOTINIAMT AC	ייייד זעד יייי	עם דוסט	ידידי
		TIME		OBSERVED MAX
SITE		EASURE	MENT	TSUNAMI HEIGHT
SAND POINT AK			3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
			3-27 3-27	21.82 FT 1.61 FT
CHIGNIK AK	2054	UTC		
CHIGNIK AK NIKOLSKI AK	2054 2056	UTC UTC	3-27	1.61 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK	2054 2056	UTC UTC UTC	3-27 3-27	1.61 FT 1.44 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK	2054 2056 2100 2110	UTC UTC UTC UTC	3-27 3-27 3-27	1.61 FT 1.44 FT 4.50 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK	2054 2056 2100 2110 2145	UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK	2054 2056 2100 2110 2145 2133	UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT
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CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK	2054 2056 2100 2110 2145 2133 2132 2114 2235	UTC UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27 3-27 3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK	2054 2056 2100 2110 2145 2133 2132 2114 2235 2245	UTC UTC UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27 3-27 3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT 0.34 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK	2054 2056 2100 2110 2145 2133 2132 2114 2235 2245 2222	UTC UTC UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27 3-27 3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT 0.34 FT 3.74 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK	2054 2056 2100 2110 2145 2133 2132 2114 2235 2245 2222 2255	UTC UTC UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-27 3-27 3-27 3-27 3-27 3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT 0.34 FT 3.74 FT 3.88 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC	2054 2056 2100 2110 2145 2133 2132 2114 2235 2245 2225 2300	UTC UTC UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT 0.34 FT 3.74 FT 3.88 FT 1.60 FT
CHIGNIK AK NIKOLSKI AK UNALASKA AK KODIAK AK SEWARD AK ADAK AK ELFIN COVE AK YAKUTAT AK PORT ALEXANDER AK CORDOVA AK SHEMYA AK SITKA AK CRAIG AK LANGARA BC TOFINO BC	2054 2056 2100 2110 2145 2133 2132 2114 2235 2245 2225 2200 2334	UTC UTC UTC UTC UTC UTC UTC UTC UTC UTC	3-27 3-27	1.61 FT 1.44 FT 4.50 FT 4.11 FT 1.03 FT 1.32 FT 2.44 FT 1.41 FT 1.82 FT 0.34 FT 3.74 FT 3.88 FT 1.60 FT 2.41 FT
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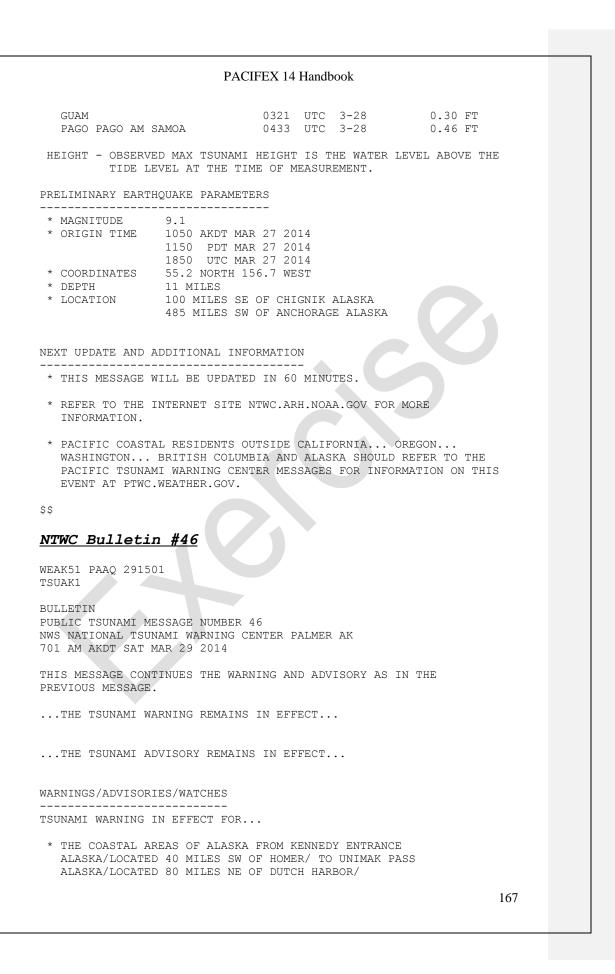
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SANTA MONICA (	CA			3-28	4.12 FT
SAN PEDRO CA		0230	UTC	3-28	3.11 FT
la jolla ca		0222	UTC	3-28	3.5 FT
SAN DIEGO CA		0214	UTC	3-28	1.74 FT
MIDWAY IS		2304	UTC	3-27	1.44 FT
NAWILIWILI HI		2323	UTC	3-27	2.20 FT
HALEIWA HI				3-27	4.99 FT
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" INIS MESSAGE (	WILL DE OFDAI	ED IN OU	MINU	163.	
* REFER TO THE 3	INTERNET SITE	NTWC.AR	H.NOA	A.GOV FC	R MORE
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THE TSUNAMI WARNING REMAINS IN EFFECT	
THE TSUNAMI ADVISORY REMAINS IN EFFECT	
VARNINGS/ADVISORIES/WATCHES	
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* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/	
SUNAMI ADVISORY IN EFFECT FOR	
* THE COASTAL AREAS OF CALIFORNIA - OREGON - WASHINGTON - BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/	
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* CURRENTS MAY BE HAZARDOUS TO SWIMMERS BOATS AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.	
* THE FIRST WAVE MAY NOT BE THE LARGEST.	
RECOMMENDED ACTIONS	
* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.	
* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.	

- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

IME ASUREMENT	OBSERVED MAX TSUNAMI HEIGH
UTC 3-27	 11.60 FT
UTC 3-27	4.33 FT
UTC 3-27	21.82 FT
UTC 3-27	1.61 FT
UTC 3-27	1.44 FT
UTC 3-27	4.50 FT
UTC 3-27	4.11 FT
UTC 3-27	1.03 FT
UTC 3-27	1.32 FT
UTC 3-27	2.44 FT
UTC 3-27	1.41 FT
UTC 3-27	1.82 FT
UTC 3-27	0.34 FT
UTC 3-27	3.74 FT
UTC 3-27	3.88 FT
UTC 3-27	1.60 FT
UTC 3-27	2.41 FT
UTC 3-27	2.02 FT
UTC 3-27	3.15 FT
UTC 3-27	2.11 FT
UTC 3-27	1.38 FT
UTC 3-27	1.05 FT
UTC 3-27	2.46 FT
UTC 3-27	2.74 FT
UTC 3-27	6.76 FT
UTC 3-28	7.11 FT
UTC 3-27	5.58 FT
UTC 3-28	4.23 FT
UTC 3-28	3.38 FT
UTC 3-28	3.71 FT
UTC 3-28	1.84 FT
UTC 3-27	3.97 FT
UTC 3-28	11.82 FT
UTC 3-28	3.32 FT
UTC 3-28	4.12 FT
UTC 3-28	3.11 FT
UTC 3-28	3.5 FT
UTC 3-28	1.74 FT
UTC 3-27	1.44 FT
UTC 3-27	2.20 FT
UTC 3-27	4.99 FT
UTC 3-27	2.23 FT
UTC 3-27	7.15 FT
UTC 3-28	2.89 FT
UTC 3-28	0.33 FT
UTC UTC UTC	3-27 3-27 3-28



TSUNAMI ADVISORY IN EFFECT FOR ...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM THE CALIFORNIA-MEXICO BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA
- \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA THIS IS FOR INFORMATION ONLY.

IMPACTS FOR TSUNAMI WARNING AREAS

- \* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

IMPACTS FOR TSUNAMI ADVISORY AREAS

- \* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
- \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
- \* THE FIRST WAVE MAY NOT BE THE LARGEST.

RECOMMENDED ACTIONS

- \* IF YOU ARE IN A WARNING AREA MOVE INLAND TO HIGHER GROUND.
- \* IF YOU ARE IN AN ADVISORY AREA MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 3 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE		ASURE		TSUNAMI HEIGH
SAND POINT AK			3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC		1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110		3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2133		3-27	2.44 FT
PORT ALEXANDER AK	2132	UTC	3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.41 FI 1.82 FT
SHEMYA AK	2235	UTC	3-27	0.34 FT
SITKA AK	2243	UTC	3-27	3.74 FT
			3-27	
CRAIG AK	2255		3-27	3.88 FT
LANGARA BC	2300			1.60 FT 2.41 FT
TOFINO BC	2334		3-27	
NEAH BAY WA	2234		3-27	2.02 FT
LAPUSH WA	2241		3-27	3.15 FT
WESTPORT WA	2302	UTC	3-27	2.11 FT
PORT ANGELES WA	2354		3-27	1.38 FT
GARIBALDI OR	2259	UTC	3-27	1.05 FT
NEWPORT OR	2309	UTC	3-27	2.46 FT
CHARLESTON OR	2333	UTC	3-27	2.74 FT
PORT ORFORD OR	2355 0100 2313	UTC	3-27	6.76 FT
CRESCENT CITY CA	0100	UTC		7.11 FT
ARENA COVE CA		UTC	3-27	5.58 FT
EUREKA CA	0006	UTC	3-28	4.23 FT
POINT REYES CA	0142	UTC	3-28	3.38 FT
SAN FRANCISCO	0155	UTC	3-28	3.71 FT
ALAMEDA CA	0141	UTC	3-28	1.84 FT
MONTEREY CA	2338	UTC	3-27	3.97 FT
PORT SAN LUIS CA	0108	UTC	3-28	11.82 FT
SANTA BARBARA CA	0145	UTC	3-28	3.32 FT
SANTA MONICA CA	0157	UTC	3-28	4.12 FT
SAN PEDRO CA	0230	UTC	3-28	3.11 FT
LA JOLLA CA	0222	UTC	3-28	3.5 FT
SAN DIEGO CA	0214		3-28	1.74 FT
MIDWAY IS	2304		3-27	1.44 FT
NAWILIWILI HI	2323		3-27	2.20 FT
HALEIWA HI	2338	UTC	3-27	4.99 FT
HONOLULU HI			3-27	2.23 FT
KAHULUI HI			3-27	7.15 FT
KAWAIHAE HI			3-28	2.89 FT
WAKE ISLAND			3-28	0.33 FT
GUAM				0.30 FT
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.46 FT
HEIGHT - OBSERVED MAX TSUNAMI	I HEIGHT	IS T	HE WATER	LEVEL ABOVE THE

PRELIMINARY EARTHQUAKE PARAMETERS

*	MAGNITU	JDE	9.3	1				
*	ORIGIN	TIME	10	50	AKDT	MAR	27	2014

1150	PDT	MAR	27	2014	
1000	TIMO	147 D	07	0014	

- 1850 UTC MAR 27 2014 \* COORDINATES 55.2 NORTH 156.7 WEST
- \* DEPTH
- 11 MILES \* LOCATION 100 MILES SE OF CHIGNIK ALASKA
  - 485 MILES SW OF ANCHORAGE ALASKA

NEXT UPDATE AND ADDITIONAL INFORMATION \_\_\_\_\_

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL RESIDENTS OUTSIDE CALIFORNIA... OREGON.. WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION ON THIS EVENT AT PTWC.WEATHER.GOV.

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#### NTWC Bulletin #47

WEAK51 PAAQ 291601 TSUAK1

BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 47 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 801 AM AKDT SAT MAR 29 2014

THIS MESSAGE CANCELS THE ADVISORY FOR AREAS IN SOUTHERN CALIFORNIA.

... THE TSUNAMI WARNING REMAINS IN EFFECT...

... THE TSUNAMI ADVISORY REMAINS IN EFFECT...

WARNINGS/ADVISORIES/WATCHES - UPDATED

-----TSUNAMI WARNING IN EFFECT FOR...

\* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/

TSUNAMI ADVISORY IN EFFECT FOR ...

- \* THE COASTAL AREAS OF CALIFORNIA OREGON WASHINGTON -BRITISH COLUMBIA AND ALASKA FROM RINCON POINT CALIFORNIA/LOCATED 15 MILES SE OF SANTA BARBARA/ TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/
- \* THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED

PACIFEX 14 Handbook
80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA
CANCELLATIONS
* THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS OF CALIFORNIA FROM THE CALIFORNIA-MEXICO BORDER TO RINCON POINT CALIFORNIA/LOCATED 15 MILES SE OF SANTA BARBARA/
* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA - THIS IS FOR INFORMATION ONLY.
IMPACTS FOR TSUNAMI WARNING AREAS
* WIDESPREAD DANGEROUS COASTAL FLOODING ACCOMPANIED BY POWERFUL CURRENTS IS POSSIBLE AND MAY CONTINUE FOR MANY HOURS AFTER TSUNAMI ARRIVAL.
* THE FIRST WAVE MAY NOT BE THE LARGEST.
IMPACTS FOR TSUNAMI ADVISORY AREAS
* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.
* CURRENTS MAY BE HAZARDOUS TO SWIMMERS BOATS AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.
* THE FIRST WAVE MAY NOT BE THE LARGEST.
RECOMMENDED ACTIONS
* IF YOU ARE IN A WARNING AREA - MOVE INLAND TO HIGHER GROUND.
* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.
* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
* DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.
SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 3 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT.
ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED
TIME OBSERVED MAX SITE OF MEASUREMENT TSUNAMI HEIGHT
171

SAND POINT AK       1945       UTC       3-27       11.60 FT         KING COVE AK       2023       UTC       3-27       4.33 FT         CHIGNIK AK       2026       UTC       3-27       1.61 FT         NIKOLSKI AK       2054       UTC       3-27       1.64 FT         KODIAK AK       2100       UTC       3-27       1.64 FT         KODIAK AK       2100       UTC       3-27       4.50 FT         SEMARD AK       2110       UTC       3-27       4.50 FT         SEMARD AK       2113       UTC       3-27       1.44 FT         PORT ALEXANDER AK       2113       UTC       3-27       1.44 FT         CORDOVA AK       2132       UTC       3-27       1.44 FT         CORDOVA AK       2132       UTC       3-27       1.41 FT         CORDOVA AK       2235       UTC       3-27       1.60 FT         SITKA AK       2222       UTC       3-27       1.60 FT         TOFINO BC       2334       UTC       3-27       1.60 FT         TOFINO BC       2344       UTC       3-27       1.61 FT         NEAH BAY WA       2241       UTC       3-27       1.60 FT     <
KING COVE AK       2023       UTC       3-27       4.33 FT         CHIGNIK AK       2026       UTC       3-27       21.82 FT         NIKOLSKI AK       2056       UTC       3-27       1.61 FT         VINLALASKA AK       2056       UTC       3-27       1.650 FT         SEWARD AK       2100       UTC       3-27       4.50 FT         SEWARD AK       2110       UTC       3-27       1.32 FT         JADAK AK       2132       UTC       3-27       1.32 FT         YAKUTAT AK       2132       UTC       3-27       1.41 FT         CORDOVA AK       2235       UTC       3-27       1.82 FT         SHEMYA AK       2245       UTC       3-27       1.82 FT         CRAIG AK       2255       UTC       3-27       1.82 FT         SHEMYA AK       2245       UTC       3-27       1.60 FT         CARIG AK       2255       UTC       3-27       1.61 FT         CRAIG AK       2261       UTC       3-27       1.60 FT         DOFINO BC       2330       UTC       3-27       1.61 FT         NEAH BAY WA       2241       UTC       3-27       1.61 FT <t< th=""></t<>
NIKOLSKI AK       2054       UTC       3-27       1.61       FT         UNALASKA AK       2056       UTC       3-27       1.44       FT         KODIAK AK       2100       UTC       3-27       4.11       FT         ADAK AK       2110       UTC       3-27       4.11       FT         ADAK AK       2133       UTC       3-27       1.03       FT         PLEIFIN COVE AK       2132       UTC       3-27       1.44       FT         YAKUTAT AK       2132       UTC       3-27       1.41       FT         CORDOVA AK       2132       UTC       3-27       1.41       FT         SITKA AK       2245       UTC       3-27       1.41       FT         CRAIG AK       2255       UTC       3-27       1.60       FT         CINOBC       2334       UTC       3-27       2.16       FT         DINO BC       2334       UTC       3-27       2.16       FT         LAPUSH WA       2241       UTC       3-27       2.16       FT         DORT ARGELES WA       2354       UTC       3-27       2.16       FT         PORT ANGELES WA       235
UNALASKA AK       2056       UTC       3-27       1.44       FT         KODIAK AK       2100       UTC       3-27       4.50       FT         SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.42       FT         CORDOVA AK       2235       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.60       FT         SITKA AK       2222       UTC       3-27       2.41       FT         CRAIG AK       2234       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.46       FT         LAPUSH WA       2354       UTC       3-27       2.46       FT         NEMPORT OR <td< td=""></td<>
KODIAK AK       2100       UTC       3-27       4.50       FT         SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2145       UTC       3-27       1.32       FT         ADAK AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       0.34       FT         SIEMAYA AK       2245       UTC       3-27       1.82       FT         CORDOVA AK       2225       UTC       3-27       0.34       FT         SIEMAYA AK       2245       UTC       3-27       1.88       FT         CARJG AK       2255       UTC       3-27       2.41       FT         SIEMAA AK       2241       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.41       FT         NEAH BAY WA       2302       UTC       3-27       2.11       FT         DORT ANGELES WA       2354       UTC       3-27       2.16       FT         CHARLESTON OR       23
SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         CORDOVA AK       2245       UTC       3-27       1.41       FT         SHEMYA AK       2245       UTC       3-27       3.74       FT         CRAIG AK       2255       UTC       3-27       2.60       FT         LANCARA BC       2300       UTC       3-27       2.61       FT         NEAH BAY WA       2234       UTC       3-27       2.61       FT         NEAH BAY WA       2302       UTC       3-27       2.11       FT         PORT ANCELES WA       2354       UTC       3-27       1.38       FT         CHARLESTON OR       2333       UTC       3-27       2.46       FT         PORT ORFORD OR
SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         CORDOVA AK       2245       UTC       3-27       1.41       FT         CORDOVA AK       2245       UTC       3-27       3.74       FT         CRAIG AK       2255       UTC       3-27       2.60       FT         CRAIG AK       2244       UTC       3-27       2.60       FT         NEAH BAY WA       2234       UTC       3-27       2.61       FT         NEAH BAY WA       2241       UTC       3-27       2.11       FT         MESTPORT WA       2302       UTC       3-27       1.38       FT         CHARLESTON OR       2333       UTC       3-27       1.66       FT         ORESCENT CITY CA
ELFIN COVE AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.82       FT         SIEMMA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       3.74       FT         CRAIG AK       2255       UTC       3-27       2.41       FT         DOFINO BC       2300       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.41       FT         NEAH BAY WA       2302       UTC       3-27       2.41       FT         NEAH BAY WA       2324       UTC       3-27       2.41       FT         NEAH BAY WA       2302       UTC       3-27       2.11       FT         NEAT ANGELES WA       2354       UTC       3-27       1.38       FT         GARIBALDI OR       2359       UTC       3-27       1.66       FT         CRESCENT CIT
YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.82       FT         SHEMYA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       3.74       FT         CRAIG AK       2255       UTC       3-27       3.74       FT         CRAIG AK       22300       UTC       3-27       2.41       FT         TOFINO BC       2334       UTC       3-27       2.02       FT         NEAH BAY WA       2241       UTC       3-27       2.02       FT         LAPUSH WA       2302       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       1.05       FT         NEWFORT OR       2309       UTC       3-27       2.46       FT         CRARLESTON OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2355       UTC       3-28       7.11       FT         ARENA COVE CA </td
PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.82       FT         SHEMYA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       0.34       FT         CRAIG AK       2255       UTC       3-27       3.68       FT         LANGARA BC       2300       UTC       3-27       2.41       FT         TOFINO BC       2334       UTC       3-27       2.11       FT         NEAH BAY WA       2241       UTC       3-27       2.11       FT         VESTPORT WA       2302       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       1.05       FT         NEWFORT OR       2309       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.58       FT         ORSCENT CITY CA       0100       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-27       5.58       FT         POINT RE
CORDOVA AK       2235       UTC       3-27       1.82       FT         SHEMYA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       0.74       FT         CRAIG AK       2255       UTC       3-27       3.74       FT         LANGARA BC       2300       UTC       3-27       1.60       FT         TOFINO BC       2334       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       1.05       FT         NEWPORT OR       2309       UTC       3-27       1.05       FT         NEWPORT OR       2333       UTC       3-27       2.46       FT         ORTOROR OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2355       UTC       3-27       5.58       FT         EUREKA CA       0100       UTC       3-28       4.23       FT         POINT REYES CA
SHEMYA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       3.74       FT         CRAIG AK       2255       UTC       3-27       3.74       FT         LANGARA BC       2300       UTC       3-27       3.74       FT         IANGARA BC       2300       UTC       3-27       2.61       FT         IANGARA BC       2334       UTC       3-27       2.61       FT         INEAH BAY WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.02       FT         VEXPORT WA       2302       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       1.05       FT         NEWPORT OR       2309       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2355       UTC       3-27       5.78       FT         EUREKA CA       0100       UTC       3-28       3.38       FT         SAN FRANCISCO
SITKA AK       2222       UTC       3-27       3.74 FT         CRAIG AK       2255       UTC       3-27       3.88 FT         LANGARA BC       2300       UTC       3-27       1.60 FT         TOFINO BC       2334       UTC       3-27       2.41 FT         NEAH BAY WA       2234       UTC       3-27       2.02 FT         LAPUSH WA       2234       UTC       3-27       2.11 FT         PORT ANGELES WA       2302       UTC       3-27       2.11 FT         PORT ANGELES WA       2354       UTC       3-27       1.05 FT         NEMPORT OR       2309       UTC       3-27       2.46 FT         CHARLESTON OR       2333       UTC       3-27       2.74 FT         PORT ORFORD OR       2355       UTC       3-27       2.74 FT         CRESCENT CITY CA       0100       UTC       3-28       7.11 FT         ARENA COVE CA       2313       UTC       3-27       5.58 FT         EUREKA CA       0006       UTC       3-28       3.38 FT         SAN FRANCISCO       0155       UTC       3-28       3.71 FT         PORT SAN LUIS CA       0108       UTC       3-28
CRAIG AK       2255       UTC       3-27       3.88       FT         LANGARA BC       2300       UTC       3-27       1.60       FT         IOFINO BC       2334       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.11       FT         VESTPORT WA       2302       UTC       3-27       2.11       FT         ORT ANGELES WA       2354       UTC       3-27       1.38       FT         SARIBALDI OR       2259       UTC       3-27       1.05       FT         VEWPORT OR       2309       UTC       3-27       2.46       FT         CRASCENT CITY CA       0100       UTC       3-28       7.11       FT         PORT ORFORD OR       2355       UTC       3-27       6.76       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         PORT ORFORD OR       2313       UTC       3-27       5.58       FT         SAN FANCISCO       0155       UTC       3-28       3.38       FT         S
LANGARA BC2300UTC3-271.60FTPOFINO BC2334UTC3-272.41FTNEAH BAY WA2234UTC3-272.02FTLAPUSH WA2241UTC3-272.15FTVESTPORT WA2302UTC3-272.11FTPORT ANGELES WA2354UTC3-271.38FTSARIBALDI OR2259UTC3-271.05FTCHARLESTON OR2309UTC3-272.74FTPORT ORFORD OR2355UTC3-276.76FTCRESCENT CITY CA0100UTC3-287.11FTPOINT REYES CA0142UTC3-283.38FTSONT REYES CA0155UTC3-273.97FTPORT SAN LUIS CA0168UTC3-281.84FTSANTA BARBARA CA0145UTC3-283.32FTSANTA MONICA CA0157UTC3-283.11FTA JOLLA CA0222UTC3-283.11FTA JOLLA CA0224UTC3-283.5FTSANTA MONICA CA0214UTC3-283.5FTA JOLLA CA0224UTC3-283.5FTAJOLLA CA0230UTC3-283.5FTAA JOLLA CA0230UTC3-271.44FTAJOLLA CA2338UTC3-272.20FTALAURA
TOFINO BC       2334       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.11       FT         WESTPORT WA       2302       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       1.38       FT         SARIBALDI OR       2259       UTC       3-27       1.05       FT         SARIBALDI OR       2309       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2355       UTC       3-27       2.74       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-27       5.58       FT         EUREKA CA       0006       UTC       3-28       4.23       FT         POINT REYES CA       0142       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       1.84       FT
NEAH BAY WA       2234       UTC       3-27       2.02 FT         LAPUSH WA       2241       UTC       3-27       3.15 FT         WESTPORT WA       2302       UTC       3-27       2.11 FT         PORT ANGELES WA       2354       UTC       3-27       1.38 FT         SARIBALDI OR       2259       UTC       3-27       1.05 FT         NEWPORT OR       2309       UTC       3-27       2.46 FT         CHARLESTON OR       2333       UTC       3-27       2.74 FT         PORT ORFORD OR       2355       UTC       3-27       6.76 FT         CRESCENT CITY CA       0100       UTC       3-28       7.11 FT         ALARENA COVE CA       2313       UTC       3-27       5.58 FT         EUREKA CA       0006       UTC       3-28       4.23 FT         POINT REYES CA       0142       UTC       3-28       3.38 FT         SAN FRANCISCO       0155       UTC       3-28       3.32 FT         PORT SAN LUIS CA       0108       UTC       3-28       1.82 FT         SANTA BARBARA CA       0145       UTC       3-28       3.32 FT         SANTA BARBARA CA       0145       UTC
LAPUSH WA       2241       UTC       3-27       3.15       FT         VESTPORT WA       2302       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       1.38       FT         SARIBALDI OR       2259       UTC       3-27       1.05       FT         VEWPORT OR       2309       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.74       FT         PORT ORFORD OR       2355       UTC       3-27       6.76       FT         PORT ORFORD OR       2355       UTC       3-27       5.58       FT         PORT ORFORD OR       2313       UTC       3-27       5.58       FT         PORT ORFORD OR       2313       UTC       3-28       7.11       FT         PORT ACOVE CA       2313       UTC       3-28       4.23       FT         POINT REYES CA       0106       UTC       3-28       3.38       FT         POINT REYES CA       0142       UTC       3-28       1.84       FT         ALAMEDA CA       0141       UTC       3-28       1.82       FT      P
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PORT ORFORD OR       2355       UTC       3-27       6.76       FT         CRESCENT CITY CA       0100       UTC       3-28       7.11       FT         ARENA COVE CA       2313       UTC       3-27       5.58       FT         SUREKA CA       0006       UTC       3-28       4.23       FT         POINT REYES CA       0142       UTC       3-28       3.38       FT         SAN FRANCISCO       0155       UTC       3-28       3.71       FT         ALAMEDA CA       0141       UTC       3-28       3.71       FT         ALAMEDA CA       0141       UTC       3-28       1.84       FT         AONTEREY CA       2338       UTC       3-27       3.97       FT         PORT SAN LUIS CA       0108       UTC       3-28       11.82       FT         SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA MONICA CA       0157       UTC       3-28       3.11       FT         SAN PEDRO CA       0230       UTC       3-28       3.5       FT         SAN DIEGO CA       0214       UTC       3-28       1.74       FT      <
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ALAMEDA CA       0141       UTC       3-28       1.84       FT         MONTEREY CA       2338       UTC       3-27       3.97       FT         PORT SAN LUIS CA       0108       UTC       3-28       11.82       FT         SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA MONICA CA       0157       UTC       3-28       3.11       FT         SAN PEDRO CA       0230       UTC       3-28       3.11       FT         SAN DIEGO CA       0222       UTC       3-28       3.5       FT         MIDWAY IS       2304       UTC       3-27       1.44       FT         HAULLIWILI HI       2323       UTC       3-27       2.20       FT         HALEIWA HI       2338       UTC       3-27       4.99       FT
IONTEREY CA       2338       UTC       3-27       3.97       FT         PORT SAN LUIS CA       0108       UTC       3-28       11.82       FT         SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA MONICA CA       0157       UTC       3-28       3.11       FT         SAN PEDRO CA       0230       UTC       3-28       3.11       FT         SAN DIEGO CA       0222       UTC       3-28       3.5       FT         SAN DIEGO CA       0214       UTC       3-28       1.74       FT         HIDWAY IS       2304       UTC       3-27       1.44       FT         HAWILIWILI HI       2323       UTC       3-27       2.20       FT         HALEIWA HI       2338       UTC       3-27       4.99       FT
PORT SAN LUIS CA       0108       UTC       3-28       11.82       FT         SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA MONICA CA       0157       UTC       3-28       4.12       FT         SAN PEDRO CA       0230       UTC       3-28       3.11       FT         JA JOLLA CA       0222       UTC       3-28       3.5       FT         SAN DIEGO CA       0214       UTC       3-28       1.74       FT         MIDWAY IS       2304       UTC       3-27       1.44       FT         NAWILIWILI HI       2338       UTC       3-27       4.99       FT
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SANTA MONICA CA       0157       UTC       3-28       4.12       FT         SAN PEDRO CA       0230       UTC       3-28       3.11       FT         SA JOLLA CA       0222       UTC       3-28       3.5       FT         SAN DIEGO CA       0214       UTC       3-28       1.74       FT         MURAY IS       2304       UTC       3-27       1.44       FT         NAWILIWILI HI       2323       UTC       3-27       2.20       FT         HALEIWA HI       2338       UTC       3-27       4.99       FT
SAN PEDRO CA       0230       UTC       3-28       3.11       FT         JA JOLLA CA       0222       UTC       3-28       3.5       FT         SAN DIEGO CA       0214       UTC       3-28       1.74       FT         MURAY IS       2304       UTC       3-27       1.44       FT         NAWILIWILI HI       2323       UTC       3-27       2.20       FT         HALEIWA HI       2338       UTC       3-27       4.99       FT
JA JOLLA CA       0222       UTC       3-28       3.5 FT         SAN DIEGO CA       0214       UTC       3-28       1.74 FT         MIDWAY IS       2304       UTC       3-27       1.44 FT         VAWILIWILI HI       2323       UTC       3-27       2.20 FT         HALEIWA HI       2338       UTC       3-27       4.99 FT
SAN DIEGO CA         0214         UTC         3-28         1.74         FT           MIDWAY IS         2304         UTC         3-27         1.44         FT           NAWILIWILI HI         2323         UTC         3-27         2.20         FT           MALEIWA HI         2338         UTC         3-27         4.99         FT
MIDWAY IS       2304       UTC       3-27       1.44       FT         NAWILIWILI HI       2323       UTC       3-27       2.20       FT         NALEIWA HI       2338       UTC       3-27       4.99       FT
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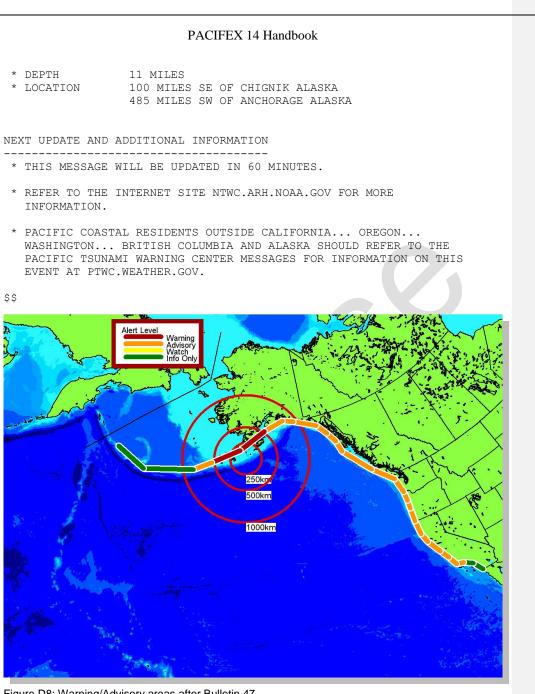


Figure D8: Warning/Advisory areas after Bulletin 47.

## NTWC Bulletin #48

WEAK51 PAAQ 291702 TSUAK1

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BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 48

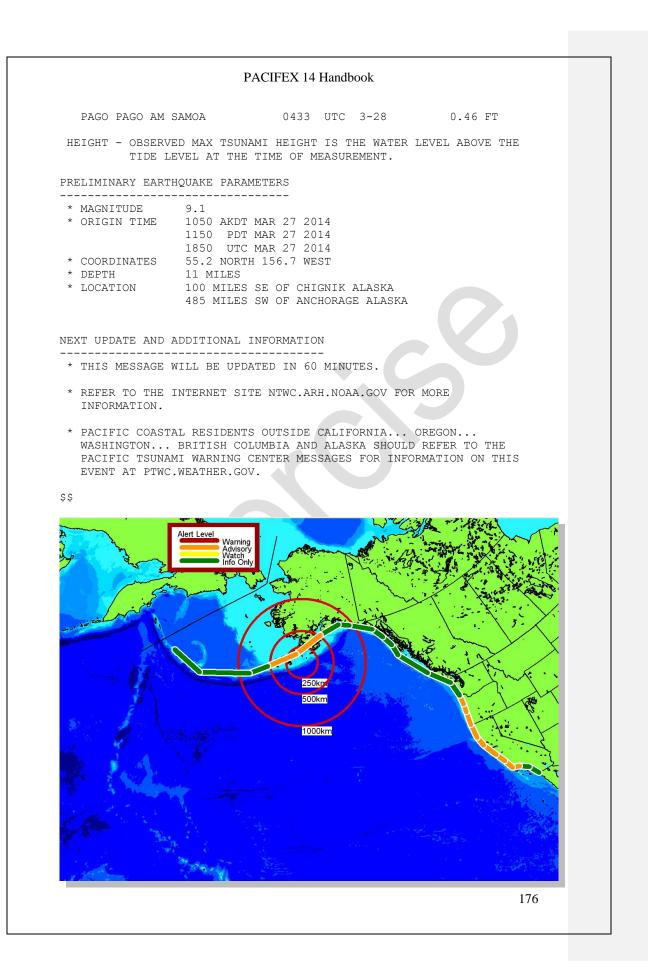
# PACIFEX 14 Handbook NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 902 AM AKDT SAT MAR 29 2014 THIS MESSAGE DOWNGRADES THE PREVIOUSLY WARNED REGION IN ALASKA TO ADVISORY AND CANCELS THE ADVISORY FOR PORTIONS OF ALASKA/ BRITISH COLUMBIA AND WASHINGTON. ... THE TSUNAMI ADVISORY REMAINS IN EFFECT ... WARNINGS/ADVISORIES/WATCHES - UPDATED \_\_\_\_\_ TSUNAMI ADVISORY IN EFFECT FOR ... \* THE COASTAL AREAS OF CALIFORNIA AND OREGON FROM RINCON POINT CALIFORNIA/LOCATED 15 MILES SE OF SANTA BARBARA/ TO THE OREGON-WASHINGTON BORDER \* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ CANCELLATIONS \_\_\_\_\_ \* THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS OF WASHINGTON - BRITISH COLUMBIA AND ALASKA FROM THE OREGON-WASHINGTON BORDER TO KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ \* THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS OF ALASKA FROM UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/ TO NIKOLSKI ALASKA \* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA -THIS IS FOR INFORMATION ONLY. IMPACTS FOR TSUNAMI ADVISORY AREAS -------\* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGEROUS TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED. \* CURRENTS MAY BE HAZARDOUS TO SWIMMERS... BOATS... AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL. \* THE FIRST WAVE MAY NOT BE THE LARGEST. RECOMMENDED ACTIONS - UPDATED -------\* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT OF HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS. \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS. 174

 $\star$  do not go to the coast to observe the tsunami.

 $\star$  DO NOT RETURN TO THE COAST UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

ITE	OF ME	'IME ASURE	MENT	OBSERVED MAX TSUNAMI HEIGH	
SAND POINT AK			3-27	11.60 FT	
KING COVE AK	2023	UTC	3-27	4.33 FT	
CHIGNIK AK			3-27	21.82 FT	
NIKOLSKI AK	2054	UTC	3-27	1.61 FT	
UNALASKA AK			3-27	1.44 FT	
KODIAK AK			3-27	4.50 FT	
SEWARD AK			3-27	4.11 FT	
ADAK AK			3-27	1.03 FT	
ELFIN COVE AK	2133	UTC	3-27	1.32 FT	
YAKUTAT AK			3-27	2.44 FT	
PORT ALEXANDER AK			3-27	1.41 FT	
CORDOVA AK	2235		3-27	1.82 FT	
SHEMYA AK			3-27	0.34 FT	
SITKA AK			3-27	3.74 FT	
CRAIG AK			3-27	3.88 FT	
LANGARA BC			3-27	1.60 FT	
TOFINO BC			3-27	2.41 FT	
NEAH BAY WA			3-27	2.41 F1 2.02 FT	
LAPUSH WA	2241		3-27	3.15 FT 2.11 FT	
WESTPORT WA	2302	UTC	3-27		
PORT ANGELES WA			3-27	1.38 FT	
GARIBALDI OR			3-27	1.05 FT	
NEWPORT OR			3-27	2.46 FT	
CHARLESTON OR			3-27	2.74 FT	
PORT ORFORD OR			3-27	6.76 FT	
CRESCENT CITY CA	0100	UTC	3-28	7.11 FT	
ARENA COVE CA	2313	UTC	3-27 3-28	5.58 FT	
EUREKA CA	0006	UTC	3-28	4.23 FT	
POINT REYES CA			3-28	3.38 FT	
SAN FRANCISCO			3-28	3.71 FT	
ALAMEDA CA			3-28	1.84 FT	
MONTEREY CA			3-27	3.97 FT	
PORT SAN LUIS CA			3-28	11.82 FT	
SANTA BARBARA CA			3-28	3.32 FT	
SANTA MONICA CA	0157	UTC	3-28	4.12 FT	
SAN PEDRO CA	0230	UTC	3-28	3.11 FT	
la jolla ca	0222	UTC	3-28	3.5 FT	
SAN DIEGO CA			3-28	1.74 FT	
MIDWAY IS	2304	UTC	3-27	1.44 FT	
NAWILIWILI HI			3-27	2.20 FT	
HALEIWA HI			3-27	4.99 FT	
HONOLULU HI	2338	UTC	3-27	2.23 FT	
KAHULUI HI			3-27	7.15 FT	
KAWAIHAE HI	0014	UTC	3-28	2.89 FT	
WAKE ISLAND			3-28	0.33 FT	
GUAM			3-28	0.30 FT	



PACIFEX 14 Handbook	
Figure D9: Warning/Advisory areas after Bulletin 48.	
igure D3. Warning/Advisory areas and Duilenn 40.	
NTWC Bulletin #49	
VEAK51 PAAQ 291801 ISUAK1	
BULLETIN PUBLIC TSUNAMI MESSAGE NUMBER 49 NWS NATIONAL TSUNAMI WARNING CENTER PALMER AK 1001 AM AKDT SAT MAR 29 2014	
THIS MESSAGE CANCELS THE TSUNAMI ADVISORY FOR THE COAST OF OREGO	Ν.
THE TSUNAMI ADVISORY REMAINS IN EFFECT	
VARNINGS/ADVISORIES/WATCHES - UPDATED	
ISUNAMI ADVISORY IN EFFECT FOR	
* THE COASTAL AREAS OF CALIFORNIA FROM RINCON POINT CALIFORNIA/LOCATED 15 MILES SE OF SANTA BARBARA/ TO THE OREGON-CALIFORNIA BORDER	
* THE COASTAL AREAS OF ALASKA FROM KENNEDY ENTRANCE ALASKA/LOCATED 40 MILES SW OF HOMER/ TO UNIMAK PASS ALASKA/LOCATED 80 MILES NE OF DUTCH HARBOR/	
CANCELLATIONS	
* THE TSUNAMI ADVISORY IS CANCELED FOR THE COASTAL AREAS OF OREGON FROM THE OREGON-CALIFORNIA BORDER TO THE OREGON-WASHINGTON BORDER	
* FOR OTHER US AND CANDIAN PACIFIC COASTS IN NORTH AMERICA - THIS IS FOR INFORMATION ONLY.	
IMPACTS FOR TSUNAMI ADVISORY AREAS	
* A TSUNAMI CAPABLE OF PRODUCING STRONG CURRENTS OR WAVES DANGE TO PERSONS IN OR VERY NEAR THE WATER IS EXPECTED.	ROUS
* CURRENTS MAY BE HAZARDOUS TO SWIMMERS BOATS AND COASTAL STRUCTURES AND MAY CONTINUE FOR MANY HOURS AFTER THE TSUNAMI ARRIVAL.	
* THE FIRST WAVE MAY NOT BE THE LARGEST.	
RECOMMENDED ACTIONS	
* IF YOU ARE IN AN ADVISORY AREA - MOVE OFF THE BEACH AND OUT O	F
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HARBORS AND MARINAS. WIDESPREAD INUNDATION OF LAND IS NOT EXPECTED FOR ADVISORY AREAS.

- \* BE ALERT TO INSTRUCTIONS FROM YOUR LOCAL EMERGENCY OFFICIALS.
- \* DO NOT GO TO THE COAST TO OBSERVE THE TSUNAMI.
- $\star$  do not return to the coast until local emergency officials indicate it is safe to do so.

SIGNIFICANT TSUNAMI ACTIVITY IS EXPECTED TO CONTINUE FOR UP TO 3 MORE HOURS FOR AREAS STILL IN A LEVEL OF ALERT.

ADDITIONAL OBSERVATIONS OF TSUNAMI ACTIVITY - UPDATED

SITE	OF ME		MENT	OBSERVED MAX TSUNAMI HEIGHT
SAND POINT AK			3-27	11.60 FT
KING COVE AK	2023	UTC	3-27	4.33 FT
CHIGNIK AK	2026	UTC	3-27	21.82 FT
NIKOLSKI AK	2054	UTC	3-27	1.61 FT
UNALASKA AK	2056	UTC	3-27	1.44 FT
KODIAK AK	2100	UTC	3-27	4.50 FT
SEWARD AK	2110	UTC	3-27	4.11 FT
ADAK AK	2145	UTC	3-27	1.03 FT
ELFIN COVE AK	2133	UTC	3-27	1.32 FT
YAKUTAT AK	2132	UTC	3-27	2.44 FT
PORT ALEXANDER AK	2114	UTC	3-27	1.41 FT
CORDOVA AK	2235	UTC	3-27	1.82 FT
SHEMYA AK	2245	UTC	3-27	0.34 FT
SITKA AK	2222	UTC	3-27	3.74 FT
CRAIG AK	2255	UTC	3-27	3.88 FT
LANGARA BC	2300	UTC	3-27	1.60 FT
TOFINO BC	2334	UTC	3-27	2.41 FT
NEAH BAY WA	2234	UTC		2.02 FT
LAPUSH WA	2241	UTC		3.15 FT
WESTPORT WA	2302	UTC	3-27	2.11 FT
PORT ANGELES WA	2354	UTC	3-27	1.38 FT
GARIBALDI OR	2259			1.05 FT
NEWPORT OR	2309	UTC	3-27	2.46 FT
CHARLESTON OR	2333		3-27	2.74 FT
PORT ORFORD OR	2355			6.76 FT
CRESCENT CITY CA	0100			7.11 FT
ARENA COVE CA	2313	UTC	3-27	5.58 FT
EUREKA CA	0006			4.23 FT
POINT REYES CA	0142			3.38 FT
SAN FRANCISCO	0155			3.71 FT
ALAMEDA CA	0141		3-28	1.84 FT
MONTEREY CA	2338			3.97 FT
PORT SAN LUIS CA	0108		3-28	11.82 FT
SANTA BARBARA CA	0145			
SANTA MONICA CA	0157			4.12 FT
SAN PEDRO CA	0230		3-28	3.11 FT
LA JOLLA CA		UTC		
SAN DIEGO CA			3-28	1.74 FT
MIDWAY IS	2304		3-27	

NAWILIWILI HI	2323	UTC	3-27	2.20 FT
HALEIWA HI	2338	UTC	3-27	4.99 FT
HONOLULU HI	2338	UTC	3-27	2.23 FT
KAHULUI HI	2341	UTC	3-27	7.15 FT
KAWAIHAE HI	0014	UTC	3-28	2.89 FT
WAKE ISLAND	0052	UTC	3-28	0.33 FT
GUAM	0321	UTC	3-28	0.30 FT
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.46 FT

HEIGHT - OBSERVED MAX TSUNAMI HEIGHT IS THE WATER LEVEL ABOVE THE TIDE LEVEL AT THE TIME OF MEASUREMENT.

#### PRELIMINARY EARTHQUAKE PARAMETERS

*	MAGNITUDE	9.1	
*	ORIGIN TIME	1050 AKDT MAR 27 2014	
		1150 PDT MAR 27 2014	
		1850 UTC MAR 27 2014	
*	COORDINATES	55.2 NORTH 156.7 WEST	
*	DEPTH	11 MILES	

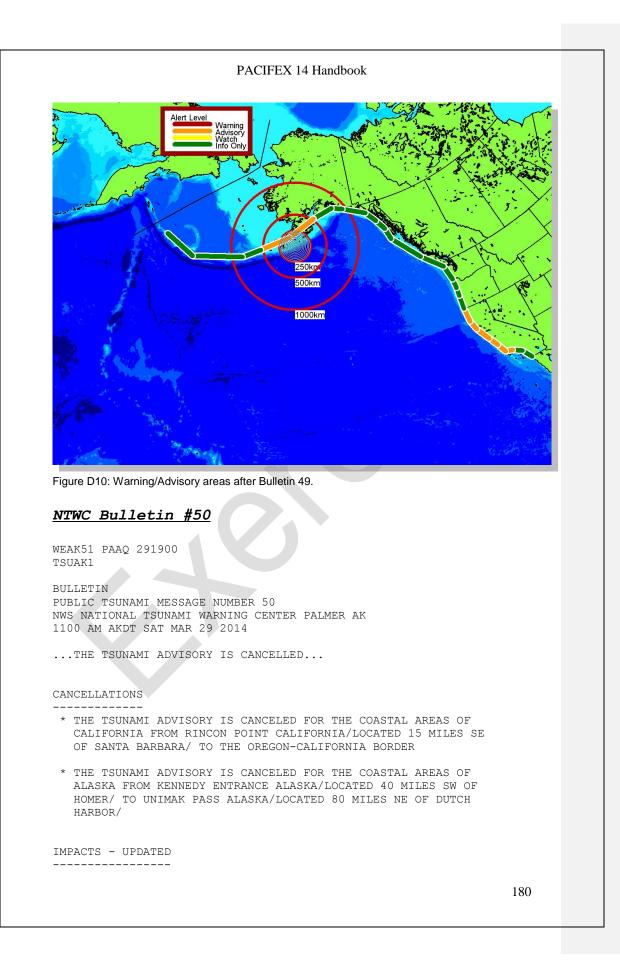
- \* LOCATION 100 MILES SE OF CHIGNIK ALASKA
  - 485 MILES SW OF ANCHORAGE ALASKA

# NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS MESSAGE WILL BE UPDATED IN 60 MINUTES.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.

*	PACIFIC	COASTAL	RESIDEN	rs outsi	IDE C	CALIFC	DRNIA	(	OREGON.	••	
	WASHING	ron Bi	RITISH CO	DLUMBIA	AND	ALASK	KA SH	IOULD	REFER	ТО	THE
	PACIFIC	TSUNAMI	WARNING	CENTER	MESS	SAGES	FOR	INFO	RMATION	ON	THIS
	EVENT A	r ptwc.wi	EATHER.GO	ov.							

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WEST COAST STATES BRITISH COLUMBIA AND ALASKA. ONGOING ACTIVITY MAY PERSIST IN SOME AREAS CAUSING STRONG CURRENTS DANGEROUS TO SWIMMERS AND BOATS. THE DETERMINATION TO RE-OCCUPY HAZARD ZONES MUST BE MADE BY LOCAL OFFICIALS. COMMENDED ACTIONS - UPDATED DO NOT RE-OCCUPY HAZARD ZONES UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. SERVATIONS OF TSUNAMI ACTIVITY - UPDATED TIME OBSERVED MAX	WEST COAST STATES BRITISH COLUMBIA AND ALASKA. ONGOING ACTIVITY MAY PERSIST IN SOME AREAS CAUSING STRONG CURRENTS DANGERCOUS TO SWIMMERS AND BOATS. THE DETERMINATION TO RE-OCCUPY HAZARD ZONES MUST BE MADE BY LOCAL OFFICIALS. OMMENDED ACTIONS - UPDATED DO NOT RE-OCCUPY HAZARD ZONES UNTIL LOCAL EMERGENCY OFFICIALS INDICATE IT IS SAFE TO DO SO. ERVATIONS OF TSUNAMI ACTIVITY - UPDATED TIME OBSERVED MAX TE OF MEASUREMENT TSUNAMI HEIGHT TIME OBSERVED MAX TE OF MEASUREMENT TSUNAMI HEIGHT TIME OBSERVED MAX TSUNAMI HEIGHT TIME OBSERVED MAX TSUNAMI HEIGHT TIME OBSERVED MAX TSUNAMI HEIGHT TOTAL SAFE TO DO SO. ERVATIONS OF TSUNAMA CTIVITY - UPDATED TIME OBSERVED MAX TE OF MEASUREMENT TSUNAMI HEIGHT TSUNAMI HEIGHT TALE OF MEASUREMENT TSUNAMI HEIGHT TALE OFFICE 3-27 1.61 FT UNALASKA & 2054 UTC 3-27 1.62 FT NIKOLSKI AK 2056 UTC 3-27 1.63 FT CONDUA AK 2145 UTC 3-27 1.63 FT CONDUA AK 2145 UTC 3-27 1.63 FT CONDUA AK 2145 UTC 3-27 1.33 FT TAKUTAT AK 2110 UTC 3-27 1.33 FT TAKUTAT AK 2113 UTC 3-27 1.33 FT CONDUA AK 2145 UTC 3-27 1.33 FT TAKUTAT AK 2113 UTC 3-27 1.34 FT SENARD AK 2145 UTC 3-27 1.34 FT STITA AK 2245 UTC 3-27 1.34 FT CONDUA AK 2255 UTC 3-27 1.60 FT TOFINO BC 2350 UTC 3-27 1.60 FT TOFINO BC 2350 UTC 3-27 1.60 FT TOFINO BC 2330 UTC 3-27 2.01 FT NEMARA AK 2255 UTC 3-27 1.60 FT TOFINO BC 2330 UTC 3-27 2.02 FT LAPUSH WA 2241 UTC 3-27 2.04 FT TOFINO BC 2333 UTC 3-27 2.04 FT TOFINO FX AGELES WA 2333 UTC 3-27 2.75 5.58 FT SAN FRANCISCO 0155 UTC 3-28 3.31 FT ALEMEDA CA 0006 UTC 3-28 3.31 FT ALEMEDA CA 0006 UTC 3-28 3.31 FT ALEMEDA CA 0006 UTC 3-28 3.31 FT ALEMEDA CA 0016 UTC 3-28 3.31 FT ALEMEDA CA 0141 UTC 3-28 3.31 FT ALEMEDA CA 0141 UTC 3-28 3.31 FT ALEMEDA CA 0141 UTC 3-28 3.31 FT ALAMEDA CA 0141 UTC 3-28 3.31 FT ALEMEDA CA 0141 UTC 3-28 3		PACIFEX 14 Handbook						
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TIME         OBSERVED MAX           TE         OF MEASUREMENT         TSUNAMI HEIGHT           SAND POINT AK         1945         UTC 3-27         11.60 FT           KING COVE AK         2023         UTC 3-27         21.82 FT           NIKONSCOVE AK         2026         UTC 3-27         1.61 FT           UNALASKA AK         2054         UTC 3-27         1.61 FT           NIKOLSKI AK         2010         UTC 3-27         1.61 FT           VANLASKA AK         2100         UTC 3-27         1.61 FT           ADAK AK         2110         UTC 3-27         4.11 FT           ADAK AK         2133         UTC 3-27         1.32 FT           YAKUTAT AK         2132         UTC 3-27         1.44 FT           CORDOVA AK         2235         UTC 3-27         1.41 FT           CORDOVA AK         2245         UTC 3-27         1.41 FT           CORDOVA AK         2245         UTC 3-27         1.82 FT           SITKA AK         2245         UTC 3-27         1.41 FT           CRAIG AK         2255         UTC 3-27         1.82 FT           SITKA AK         2245         UTC 3-27         1.85 FT           LANGAR BC         2030 <td< th=""><th>TIME         OBSERVED MAX           TE         OF MEASUREMENT         TSUNAMI HEIGHT           SAND POINT AK         1945         UTC 3-27         11.60 FT           SAND POINT AK         2023         UTC 3-27         11.60 FT           CHIGNIK AK         2026         UTC 3-27         1.82 FT           NIKOLSKI AK         2054         UTC 3-27         1.61 FT           UNALASKA AK         2010         UTC 3-27         1.61 FT           KODIAK AK         2100         UTC 3-27         4.50 FT           SEWARD AK         2110         UTC 3-27         4.61 FT           KODIAK AK         2132         UTC 3-27         1.32 FT           YAKUTAT AK         2132         UTC 3-27         1.41 FT           CORDOVA AK         2235         UTC 3-27         1.41 FT           CORDOVA AK         2245         UTC 3-27         1.82 FT           SHEMYA AK         2245         UTC 3-27         1.82 FT           SHEMYA AK         2245         UTC 3-27         1.82 FT           CRAIG AK         2245         UTC 3-27         1.84 FT           CORDOVA AK         2245         UTC 3-27         1.85 FT           SHEMYA AK         2245         &lt;</th><th></th><th></th><th></th></td<>	TIME         OBSERVED MAX           TE         OF MEASUREMENT         TSUNAMI HEIGHT           SAND POINT AK         1945         UTC 3-27         11.60 FT           SAND POINT AK         2023         UTC 3-27         11.60 FT           CHIGNIK AK         2026         UTC 3-27         1.82 FT           NIKOLSKI AK         2054         UTC 3-27         1.61 FT           UNALASKA AK         2010         UTC 3-27         1.61 FT           KODIAK AK         2100         UTC 3-27         4.50 FT           SEWARD AK         2110         UTC 3-27         4.61 FT           KODIAK AK         2132         UTC 3-27         1.32 FT           YAKUTAT AK         2132         UTC 3-27         1.41 FT           CORDOVA AK         2235         UTC 3-27         1.41 FT           CORDOVA AK         2245         UTC 3-27         1.82 FT           SHEMYA AK         2245         UTC 3-27         1.82 FT           SHEMYA AK         2245         UTC 3-27         1.82 FT           CRAIG AK         2245         UTC 3-27         1.84 FT           CORDOVA AK         2245         UTC 3-27         1.85 FT           SHEMYA AK         2245         <								
TE         OF MEASUREMENT         TSUNAMI HEIGHT           SAND POINT AK         1945         UTC         3-27         11.60 FT           KING COVE AK         2023         UTC         3-27         1.82 FT           CHIGNIK AK         2026         UTC         3-27         1.82 FT           UNALASKA AK         2056         UTC         3-27         1.44 FT           KODIAK AK         2100         UTC         3-27         1.03 FT           SEMARD AK         2110         UTC         3-27         1.43 FT           ADAK AK         2130         UTC         3-27         1.03 FT           ELFIN COVE AK         2133         UTC         3-27         1.44 FT           PORT ALEXANDER AK         2114         UTC         3-27         1.42 FT           YARUTAT AK         2235         UTC         3-27         1.41 FT           CORDOVA AK         2245         UTC         3-27         3.48 FT           SITKA AK         2245         UTC         3-27         2.41 FT           IANGARA BC         2304         UTC         3-27         2.41 FT           LANGARA BC         2304         UTC         3-27         2.60 FT	TE         OF MEASUREMENT         TSUNAMI HEIGHT           SAND FOINT AK         1945         UTC         3-27         11.60 FT           KING COVE AK         2023         UTC         3-27         4.33 FT           CHIGNIK AK         2026         UTC         3-27         1.61 FT           NIKOLSKI AK         2054         UTC         3-27         1.64 FT           KODIAK AK         2100         UTC         3-27         1.64 FT           KODIAK AK         2100         UTC         3-27         1.61 FT           NALASKA AK         2100         UTC         3-27         1.44 FT           KODIAK AK         2110         UTC         3-27         1.32 FT           SEWARD AK         2132         UTC         3-27         1.44 FT           OPAT ALEXANDER AK         2132         UTC         3-27         1.41 FT           CORDOVA AK         2235         UTC         3-27         1.82 FT           SITKA AK         2245         UTC         3-27         1.84 FT           CARIGAK         2255         UTC         3-27         1.60 FT           CRAIGAK         2250 UTC         3-27         1.60 FT           CRAIGAK	SERVATIONS OF TSUNAMI ACT	IVITY - UPDATED 						
KING COVE AK       2023       UTC       3-27       4.33 FT         CHIGNIK AK       2026       UTC       3-27       1.61 FT         UNALASKA AK       2056       UTC       3-27       1.61 FT         UNALASKA AK       2056       UTC       3-27       1.63 FT         KODIAK AK       2100       UTC       3-27       4.50 FT         SEWARD AK       2110       UTC       3-27       4.33 FT         ADAK AK       2145       UTC       3-27       1.32 FT         YAKUTAT AK       2132       UTC       3-27       1.32 FT         YAKUTAT AK       2132       UTC       3-27       1.41 FT         CORDOVA AK       2235       UTC       3-27       1.82 FT         SHEMYA AK       2245       UTC       3-27       1.82 FT         CRAIG AK       2255       UTC       3-27       1.82 FT         CHAGARA BC       2300       UTC       3-27       1.88 FT         LANGARA BC       2300       UTC       3-27       2.02 FT         LAVUSH WA       234       UTC       3-27       2.02 FT         LAVUSH WA       2300       UTC       3-27       1.05 FT	KING COVE AK       2023       UTC       3-27       4.33 FT         CHIGNIK AK       2026       UTC       3-27       21.82 FT         NIKOLSKI AK       2054       UTC       3-27       1.61 FT         UNALASKA AK       2056       UTC       3-27       1.61 FT         KODIAK AK       2100       UTC       3-27       4.50 FT         SEWARD AK       2110       UTC       3-27       4.50 FT         SEMARD AK       2110       UTC       3-27       1.03 FT         ELFIN COVE AK       2133       UTC       3-27       1.44 FT         PORT ALEXANDER AK       2142       UTC       3-27       1.44 FT         CORDOVA AK       2132       UTC       3-27       1.44 FT         SHEMYA AK       2142       UTC       3-27       1.44 FT         CORDOVA AK       2235       UTC       3-27       1.82 FT         SHEMYA AK       2245       UTC       3-27       1.88 FT         CRAIG AK       2225       UTC       3-27       1.60 FT         TOPINO BC       2334       UTC       3-27       2.41 FT         NEAH BAY WA       2234       UTC       3-27       2.41 FT	ITE							
CHIGNIK AK       2026       UTC       3-27       21.82 FT         NIKOLSKI AK       2054       UTC       3-27       1.61 FT         NIKOLSKI AK       2056       UTC       3-27       1.64 FT         KODIAK AK       2000       UTC       3-27       1.64 FT         KODIAK AK       2100       UTC       3-27       4.50 FT         SEWARD AK       2110       UTC       3-27       4.11 FT         ADAK AK       2133       UTC       3-27       1.32 FT         YAKUTAT AK       2132       UTC       3-27       1.41 FT         CORDOVA AK       2235       UTC       3-27       1.82 FT         SITKA AK       2245       UTC       3-27       1.82 FT         CRAIG AK       2255       UTC       3-27       1.86 FT         CRAIG AK       2255       UTC       3-27       1.60 FT         CORDOVA AK       2234       UTC       3-27       2.02 FT         LANGARA BC       2300       UTC       3-27       2.02 FT         LANGARA BC       2302       UTC       3-27       2.11 FT         PORT ANCELES WA       234       UTC       3-27       1.60 FT <tr< td=""><td>CHIGNIK AK       2026       UTC       3-27       21.82       FT         NIKOLSKI AK       2054       UTC       3-27       1.64       FT         NIKOLSKI AK       2056       UTC       3-27       1.64       FT         KODIAK AK       2100       UTC       3-27       4.11       FT         ADAK AK       2110       UTC       3-27       4.11       FT         ADAK AK       2113       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.44       FT         ORDA AK       2132       UTC       3-27       1.44       FT         ORDA AK       2133       UTC       3-27       1.44       FT         CORDOVA AK       2132       UTC       3-27       1.44       FT         CORDOVA AK       2245       UTC       3-27       1.82       FT         SIEMAAK       2225       UTC       3-27       3.74       FT         LANGARA BC       2300       UTC       3-27       2.41       FT         LANGARA BC       2300       UTC       3-27       2.41       FT         LAPUSH WA       2244</td><td>SAND POINT AK</td><td></td><td>11.60 FT</td></tr<>	CHIGNIK AK       2026       UTC       3-27       21.82       FT         NIKOLSKI AK       2054       UTC       3-27       1.64       FT         NIKOLSKI AK       2056       UTC       3-27       1.64       FT         KODIAK AK       2100       UTC       3-27       4.11       FT         ADAK AK       2110       UTC       3-27       4.11       FT         ADAK AK       2113       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.44       FT         ORDA AK       2132       UTC       3-27       1.44       FT         ORDA AK       2133       UTC       3-27       1.44       FT         CORDOVA AK       2132       UTC       3-27       1.44       FT         CORDOVA AK       2245       UTC       3-27       1.82       FT         SIEMAAK       2225       UTC       3-27       3.74       FT         LANGARA BC       2300       UTC       3-27       2.41       FT         LANGARA BC       2300       UTC       3-27       2.41       FT         LAPUSH WA       2244	SAND POINT AK		11.60 FT					
NIKOLSKI AK       2054       UTC       3-27       1.61       FT         UNALASKA AK       2056       UTC       3-27       1.44       FT         KODIAK AK       2100       UTC       3-27       4.50       FT         SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2132       UTC       3-27       1.03       FT         PARTAT AK       2132       UTC       3-27       1.44       FT         PORT ALEXANDER AK       2132       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         STRA AK       2245       UTC       3-27       1.41       FT         CRAIG AK       2245       UTC       3-27       1.48       FT         STRA AK       2245       UTC       3-27       1.60       FT         CRAIG AK       2255       UTC       3-27       2.64       FT         LANCARA BC       2300       UTC       3-27       2.64       FT         LANCARA BC       2324       UTC       3-27       1.16       FT         LANUSH WA       2241	NIKOLSKI AK       2054       UTC       3-27       1.61       FT         UNALASKA AK       2056       UTC       3-27       1.44       FT         KODIAK AK       2100       UTC       3-27       4.50       FT         SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2133       UTC       3-27       1.03       FT         ZARUTAT AK       2132       UTC       3-27       1.44       FT         PORT ALEXANDER AK       2132       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.44       FT         SHEMYA AK       2245       UTC       3-27       1.44       FT         CRAIG AK       2245       UTC       3-27       1.44       FT         STKA AK       2245       UTC       3-27       1.61       FT         CRAIG AK       2255       UTC       3-27       2.03       FT         LANGARA BC       2300       UTC       3-27       2.04       FT         DATON BC       2334       UTC       3-27       2.05       FT         LAPUSH WA       2234 <td></td> <td></td> <td></td>								
UNALASKA AK       2056       UTC       3-27       1.44       FT         KODIAK AK       2100       UTC       3-27       4.50       FT         SEWARD AK       2110       UTC       3-27       4.50       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         PORT ALEXANDER AK       2144       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         SHEMYA AK       2245       UTC       3-27       1.41       FT         CRAIG AK       2255       UTC       3-27       1.60       FT         SITKA AK       2255       UTC       3-27       1.60       FT         CRAIG AK       2255       UTC       3-27       2.60       FT         LANGARA BC       2334       UTC       3-27       2.60       FT         LANGARA BC       234       UTC       3-27       2.60       FT         LAPUSH WA       2241       UTC       3-27       2.66       FT         DORT ANGELES WA <td< td=""><td>UNALASKA AK       2056       UTC       3-27       1.44       FT         KODIAK AK       2100       UTC       3-27       4.50       FT         SEWARD AK       2110       UTC       3-27       4.50       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         PORT ALEXANDER AK       2144       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         SHEMYA AK       2245       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.60       FT         SHEMYA AK       2222       UTC       3-27       2.61       FT         SITKA AK       2255       UTC       3-27       3.68       FT         LANGARA BC       2300       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.02       FT         LAPUSH WA       234       UTC       3-27       2.16       FT         PORT ANGELES WA       &lt;</td><td></td><td>2026 UTC 3-27</td><td></td></td<>	UNALASKA AK       2056       UTC       3-27       1.44       FT         KODIAK AK       2100       UTC       3-27       4.50       FT         SEWARD AK       2110       UTC       3-27       4.50       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         PORT ALEXANDER AK       2144       UTC       3-27       1.44       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         SHEMYA AK       2245       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.60       FT         SHEMYA AK       2222       UTC       3-27       2.61       FT         SITKA AK       2255       UTC       3-27       3.68       FT         LANGARA BC       2300       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.02       FT         LAPUSH WA       234       UTC       3-27       2.16       FT         PORT ANGELES WA       <		2026 UTC 3-27						
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SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         CORDOVA AK       2245       UTC       3-27       1.41       FT         SITKA AK       2245       UTC       3-27       3.74       FT         CRAIG AK       2255       UTC       3-27       1.60       FT         LANGARA BC       2300       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.02       FT         LAPUSH WA       2241       UTC       3-27       2.02       FT         MACELSWA       2302       UTC       3-27       1.05       FT         NEAH BAY WA       2259       UTC       3-27       1.05       FT         ORT ANGELES WA <t< td=""><td>SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ADAK AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       1.41       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         SHEMYA AK       2245       UTC       3-27       1.41       FT         CRAIG AK       2225       UTC       3-27       3.74       FT         LANGARA BC       2230       UTC       3-27       1.60       FT         IAPUSH WA       2244       UTC       3-27       2.02       FT         LAPUSH WA       2244       UTC       3-27       2.02       FT         LAPUSH WA       2244       UTC       3-27       2.02       FT         DARUSH WA       2244       UTC       3-27       1.05       FT         NEAH BAY WA       2244       UTC       3-27       1.05       FT         ORT ANCELES WA       235</td><td></td><td></td><td></td></t<>	SEWARD AK       2110       UTC       3-27       4.11       FT         ADAK AK       2145       UTC       3-27       1.03       FT         ADAK AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       1.41       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         SHEMYA AK       2245       UTC       3-27       1.41       FT         CRAIG AK       2225       UTC       3-27       3.74       FT         LANGARA BC       2230       UTC       3-27       1.60       FT         IAPUSH WA       2244       UTC       3-27       2.02       FT         LAPUSH WA       2244       UTC       3-27       2.02       FT         LAPUSH WA       2244       UTC       3-27       2.02       FT         DARUSH WA       2244       UTC       3-27       1.05       FT         NEAH BAY WA       2244       UTC       3-27       1.05       FT         ORT ANCELES WA       235								
ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2132       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.32       FT         SITKA AK       2225       UTC       3-27       1.34       FT         CRAIG AK       2225       UTC       3-27       3.74       FT         LANGARA BC       2300       UTC       3-27       2.61       FT         TOFINO BC       2334       UTC       3-27       2.02       FT         LANGARA BC       200       UTC       3-27       2.01       FT         VESTPORT WA       2234       UTC       3-27       2.02       FT         LAPUSH WA       2302       UTC       3-27       2.11       FT         PORT ANGELES WA       2354       UTC       3-27       2.16       FT         QARIBALDI OR       2333       UTC       3-27       2.46       FT         PORT ORFORD OR	ADAK AK       2145       UTC       3-27       1.03       FT         ELFIN COVE AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       1.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.41       FT         SHEMYA AK       2245       UTC       3-27       0.34       FT         CCRAIG AK       2222       UTC       3-27       1.60       FT         LANGARA BC       2300       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.41       FT         LAPUSH WA       2234       UTC       3-27       2.41       FT         NEAPAR WA       2234       UTC       3-27       2.11       FT         PORT ALGELES WA       2354       UTC       3-27       1.38       FT         ORT ANGELES WA       2354       UTC       3-27       2.46       FT         CHARLESTON OR       2333       UTC       3-27       2.46       FT         PORT ORFORD								
ELFIN COVE AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.82       FT         SHEMYA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       3.88       FT         LANGARA BC       2300       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.11       FT         NEAH BAY WA       2302       UTC       3-27       1.38       FT         GARIBALDI OR       2354       UTC       3-27       1.05       FT         NEWPORT OR       2309       UTC       3-27       1.66       FT         CRESCENT CITY CA       0100       UTC       3-27       5.76       FT         ORT ORFO	ELFIN COVE AK       2133       UTC       3-27       1.32       FT         YAKUTAT AK       2132       UTC       3-27       2.44       FT         PORT ALEXANDER AK       2114       UTC       3-27       1.41       FT         CORDOVA AK       2235       UTC       3-27       1.82       FT         SHEMYA AK       2245       UTC       3-27       0.34       FT         SITKA AK       2222       UTC       3-27       3.88       FT         LANGARA BC       2300       UTC       3-27       1.60       FT         TOFINO BC       2334       UTC       3-27       2.41       FT         NEAH BAY WA       2234       UTC       3-27       2.02       FT         LANGARA BC       2300       UTC       3-27       2.11       FT         NEAH BAY WA       2241       UTC       3-27       2.11       FT         LAPUSH WA       2302       UTC       3-27       1.05       FT         MESTPORT WA       2309       UTC       3-27       1.05       FT         GARIBALDI OR       2354       UTC       3-27       1.66       FT         CRESCENT CITY CA<								
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SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA MONICA CA       0157       UTC       3-28       4.12       FT         SAN PEDRO CA       0230       UTC       3-28       3.11       FT         LA JOLLA CA       0222       UTC       3-28       3.5       FT	SANTA BARBARA CA       0145       UTC       3-28       3.32       FT         SANTA MONICA CA       0157       UTC       3-28       4.12       FT         SAN PEDRO CA       0230       UTC       3-28       3.11       FT         LA JOLLA CA       0222       UTC       3-28       3.5       FT	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR PORT ORFORD OR CRESCENT CITY CA ARENA COVE CA EUREKA CA POINT REYES CA SAN FRANCISCO	2300 UTC 3-27 2334 UTC 3-27 2234 UTC 3-27 2241 UTC 3-27 2302 UTC 3-27 2354 UTC 3-27 2359 UTC 3-27 2309 UTC 3-27 2333 UTC 3-27 2355 UTC 3-27 0100 UTC 3-28 2313 UTC 3-27 0006 UTC 3-28 0142 UTC 3-28 0155 UTC 3-28	1.60 FT 2.41 FT 2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT 6.76 FT 7.11 FT 5.58 FT 4.23 FT 3.38 FT 3.71 FT					
SANTA MONICA CA       0157       UTC       3-28       4.12 FT         SAN PEDRO CA       0230       UTC       3-28       3.11 FT         LA JOLLA CA       0222       UTC       3-28       3.5 FT	SANTA MONICA CA       0157 UTC 3-28       4.12 FT         SAN PEDRO CA       0230 UTC 3-28       3.11 FT         LA JOLLA CA       0222 UTC 3-28       3.5 FT	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR PORT ORFORD OR CRESCENT CITY CA ARENA COVE CA EUREKA CA POINT REYES CA SAN FRANCISCO ALAMEDA CA	2300 UTC 3-27 2334 UTC 3-27 2234 UTC 3-27 2241 UTC 3-27 2302 UTC 3-27 2354 UTC 3-27 2359 UTC 3-27 2309 UTC 3-27 2333 UTC 3-27 2355 UTC 3-27 0100 UTC 3-28 2313 UTC 3-28 0142 UTC 3-28 0141 UTC 3-28	1.60 FT 2.41 FT 2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT 6.76 FT 7.11 FT 5.58 FT 4.23 FT 3.38 FT 3.71 FT 1.84 FT					
SAN PEDRO CA         0230         UTC         3-28         3.11         FT           LA JOLLA CA         0222         UTC         3-28         3.5         FT	SAN PEDRO CA         0230 UTC 3-28         3.11 FT           LA JOLLA CA         0222 UTC 3-28         3.5 FT	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR PORT ORFORD OR CRESCENT CITY CA ARENA COVE CA EUREKA CA POINT REYES CA SAN FRANCISCO ALAMEDA CA MONTEREY CA	2300 UTC 3-27 2334 UTC 3-27 2234 UTC 3-27 2241 UTC 3-27 2302 UTC 3-27 2354 UTC 3-27 2359 UTC 3-27 2309 UTC 3-27 2333 UTC 3-27 2355 UTC 3-27 0100 UTC 3-28 2313 UTC 3-28 0142 UTC 3-28 0142 UTC 3-28 0155 UTC 3-28 0141 UTC 3-28 2338 UTC 3-27	1.60 FT 2.41 FT 2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT 6.76 FT 7.11 FT 5.58 FT 4.23 FT 3.38 FT 3.71 FT 1.84 FT 3.97 FT					
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181	181	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR PORT ORFORD OR CRESCENT CITY CA ARENA COVE CA EUREKA CA POINT REYES CA SAN FRANCISCO ALAMEDA CA MONTEREY CA PORT SAN LUIS CA SANTA BARBARA CA SANTA MONICA CA SAN PEDRO CA	2300 UTC 3-27 2334 UTC 3-27 2234 UTC 3-27 2241 UTC 3-27 2302 UTC 3-27 2354 UTC 3-27 2359 UTC 3-27 2309 UTC 3-27 2333 UTC 3-27 2355 UTC 3-27 0100 UTC 3-28 2313 UTC 3-27 0006 UTC 3-28 0142 UTC 3-28 0141 UTC 3-28 0141 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0157 UTC 3-28 0157 UTC 3-28 0230 UTC 3-28	1.60 FT 2.41 FT 2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT 6.76 FT 7.11 FT 5.58 FT 4.23 FT 3.38 FT 3.71 FT 1.84 FT 3.97 FT 11.82 FT 3.32 FT 4.12 FT 3.11 FT					
181	181	CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR PORT ORFORD OR CRESCENT CITY CA ARENA COVE CA EUREKA CA POINT REYES CA SAN FRANCISCO ALAMEDA CA MONTEREY CA PORT SAN LUIS CA SANTA BARBARA CA SANTA MONICA CA SAN PEDRO CA	2300 UTC 3-27 2334 UTC 3-27 2234 UTC 3-27 2241 UTC 3-27 2302 UTC 3-27 2354 UTC 3-27 2359 UTC 3-27 2309 UTC 3-27 2333 UTC 3-27 2355 UTC 3-27 0100 UTC 3-28 2313 UTC 3-27 0006 UTC 3-28 0142 UTC 3-28 0141 UTC 3-28 0141 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0157 UTC 3-28 0157 UTC 3-28 0230 UTC 3-28	1.60 FT 2.41 FT 2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT 6.76 FT 7.11 FT 5.58 FT 4.23 FT 3.38 FT 3.71 FT 1.84 FT 3.97 FT 11.82 FT 3.32 FT 4.12 FT 3.11 FT					
		CRAIG AK LANGARA BC TOFINO BC NEAH BAY WA LAPUSH WA WESTPORT WA PORT ANGELES WA GARIBALDI OR NEWPORT OR CHARLESTON OR PORT ORFORD OR CRESCENT CITY CA ARENA COVE CA EUREKA CA POINT REYES CA SAN FRANCISCO ALAMEDA CA MONTEREY CA PORT SAN LUIS CA SANTA BARBARA CA SANTA MONICA CA SAN PEDRO CA	2300 UTC 3-27 2334 UTC 3-27 2234 UTC 3-27 2241 UTC 3-27 2302 UTC 3-27 2354 UTC 3-27 2359 UTC 3-27 2309 UTC 3-27 2333 UTC 3-27 2355 UTC 3-27 0100 UTC 3-28 2313 UTC 3-27 0006 UTC 3-28 0142 UTC 3-28 0141 UTC 3-28 0141 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0145 UTC 3-28 0157 UTC 3-28 0157 UTC 3-28 0230 UTC 3-28	1.60 FT 2.41 FT 2.02 FT 3.15 FT 2.11 FT 1.38 FT 1.05 FT 2.46 FT 2.74 FT 6.76 FT 7.11 FT 5.58 FT 4.23 FT 3.38 FT 3.71 FT 1.84 FT 3.97 FT 11.82 FT 3.32 FT 4.12 FT 3.11 FT					

SAN DIEGO CA	0214	UTC	3-28	1.74 FT
MIDWAY IS	2304	UTC	3-27	1.44 FT
NAWILIWILI HI	2323	UTC	3-27	2.20 FT
HALEIWA HI	2338	UTC	3-27	4.99 FT
HONOLULU HI	2338	UTC	3-27	2.23 FT
KAHULUI HI	2341	UTC	3-27	7.15 FT
KAWAIHAE HI	0014	UTC	3-28	2.89 FT
WAKE ISLAND	0052	UTC	3-28	0.33 FT
GUAM	0321	UTC	3-28	0.30 FT
PAGO PAGO AM SAMOA	0433	UTC	3-28	0.46 FT

NEXT UPDATE AND ADDITIONAL INFORMATION

- \* THIS WILL BE THE LAST NATIONAL TSUNAMI WARNING CENTER BULLETIN ISSUED FOR THIS EVENT.
- \* REFER TO THE INTERNET SITE NTWC.ARH.NOAA.GOV FOR MORE INFORMATION.
- \* PACIFIC COASTAL REGIONS OUTSIDE CALIFORNIA... OREGON... WASHINGTON... BRITISH COLUMBIA AND ALASKA SHOULD REFER TO THE PACIFIC TSUNAMI WARNING CENTER MESSAGES FOR INFORMATION AT PTWC.WEATHER.GOV.

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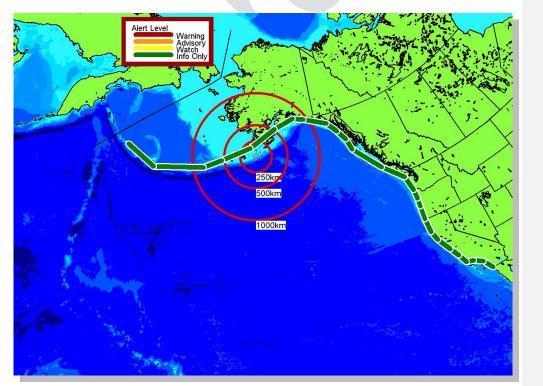


Figure D11: Warning/Advisory areas after Bulletin 50.

## Appendix E. Sample Press Release for Local Media

TEMPLATE FOR NEWS RELEASE

USE AGENCY MASTHEAD

Contact: (insert name) (insert phone number) (insert email address) FOR IMMEDIATE RELEASE (insert date)

## NORTH PACIFIC TSUNAMI EXERCISE TO BE CONDUCTED MARCH 27, 2012

(*insert community/county/state name*) will join other localities in the north Pacific as a participant in a tsunami response exercise on March 27, 2012. The purpose of this exercise is to evaluate local tsunami response plans, increase tsunami preparedness, and improve coordination throughout the region.

(insert a promotional comment from a local official, such as "The 2011 Japan earthquake and tsunami reminded the world again of the urgent need to be more prepared for such events," said (insert name of appropriate official). "This important exercise will test the current procedures of the Tsunami Warning System and help identify operational strengths and weaknesses in each community." (*Please modify* for uniqueness.))

The exercise, titled PACIFEX 14, will simulate a widespread Tsunami Warning, Watch, and Advisory situation along U.S. and Canadian west coasts requiring implementation of local tsunami response plans. It is the fifth such exercise including all Pacific states, provinces, territories, and commonwealths. The exercise will (*insert "include" or "not include"*) public notification.

The exercise will simulate a major earthquake and tsunami generated 100 miles southeast of Chignik, Alaska at 11:50 am Pacific Daylight Time (*or appropriate local time*) on March 27, 2012. Exercise participants will be provided with a handbook which describes the scenario and contains tsunami messages from the National Tsunami Warning Center (NTWC)

Insert paragraph tailored for specific community. Could identify participating agencies and specific plans. Could describe current early warning program, past tsunami exercises (if any), ongoing mitigation and public education programs, etc. Could describe tsunami threat, history of tsunami hazards, if any.

If any real tsunami threat occurs during the time period of the exercise, the exercise will be terminated.

The exercise is sponsored by the U.S. National Oceanic and Atmospheric Administration (NOAA) and by the U.S. National Tsunami Hazard Mitigation Program (NTHMP – a partnership of 28 states and territories and three federal agencies). For

