

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

Vicki S. McConnell, State Geologist



NEWS RELEASE: July 16, 2012

Revised tsunami inundation maps show new tsunami wave heights for northern Tillamook County and Coos Bay area

Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) has reissued tsunami inundation maps (TIMs) for northern Tillamook County and the Coos Bay area that incorporate corrected estimated tsunami wave height graphs.

TIM-Till-02, Tsunami Inundation Maps for Manzanita - Nehalem, 2012, scale 1:10,000.

TIM-Till-03, Tsunami Inundation Maps for Nehalem East, 2012, scale 1:10,000.

TIM-Till-04, Tsunami Inundation Maps for Rockaway Beach, 2012, scale 1:10,000.

TIM-Till-05, Tsunami Inundation Maps for Garibaldi - Bay City, 2012, scale 1:10,000.

TIM-Till-06, Tsunami Inundation Maps for Tillamook North, 2012, scale 1:12,000.

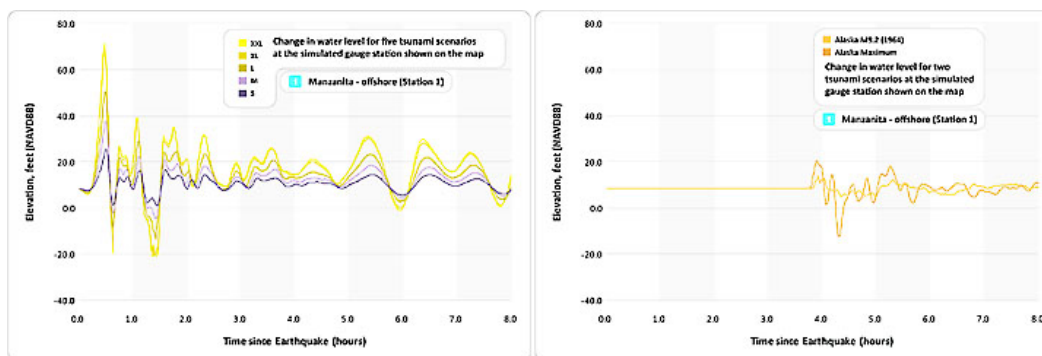
TIM-Till-07, Tsunami Inundation Maps for Tillamook South, 2012, scale 1:12,000.

TIM-Till-08, Tsunami Inundation Maps for Cape Meares, 2012, scale 1:10,000.

TIM-Till-09, Tsunami Inundation Maps for Netarts - Oceanside, 2012, scale 1:10,000.

TIM-Coos-05, Tsunami Inundation Maps for Coos Bay - North Bend, scale 1:12,000.

Example tsunami wave height graphs:



Graphs for the Manzanita-Nehalem area showing projected tsunami wave heights over time for [left] local source (Cascadia Subduction Zone) and [right] distant source (Alaska) modeled tsunami scenarios. Note that Cascadia Subduction Zone tsunami waves can arrive within 15 minutes and last more than 8 hours. Distant source tsunami waves will take much longer to arrive but can still be very large and dangerous.

Each TIM publication contains two plates showing a wealth of information including inundation extents, projected tsunami wave height time series charts, and a

DOGAMI's mission is to provide earth science information and regulation to make Oregon safe and prosperous.

**Media contact:
Carol DuVernois**

carol.duvernois@state.or.us

800 NE Oregon St., #28,
Ste. 965

Portland, OR 97232

Phone: (971) 673-1555

Fax: (971) 673-1562

www.OregonGeology.org

Mineral Land Regulation and Reclamation Program

229 Broadalbin St. SW
Albany, OR 97321

Phone: (541) 967-2039

Fax: (541) 967-2075

info@mlrr.oregongeology.com

Gary W. Lynch,

Assistant Director

Coastal Field Office

313 SW 2nd, Ste. D

Newport, OR 97365

Phone: (541) 574-6642

Fax: (541) 265-5241

Jonathan C. Allan,

Coastal Team Leader

Eastern Oregon Field Office

Baker County Courthouse

1995 3rd St., Ste. 130

Baker City, OR 978149

Phone: (541) 523-3133

Fax: (541) 523-5992

Jason D. McClaughry,

Regional Geologist

Nature of the Northwest Information Center

800 NE Oregon St., Ste. 965

Portland, Oregon 97232

(971) 673-2331

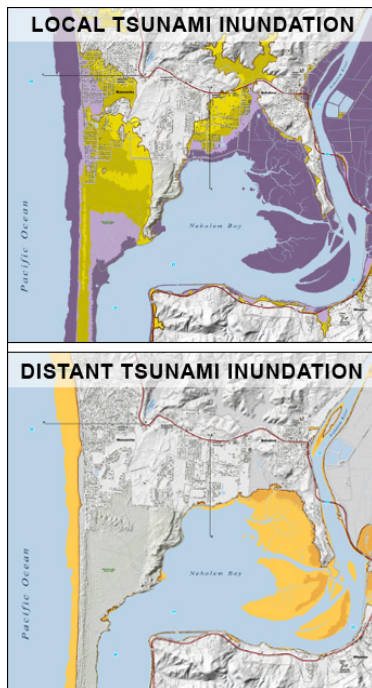
Email: info@naturenw.org

Web: www.NatureNW.org

Donald J. Haines, Manager

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

measurement of the exposure each community has to various tsunami scenarios.



Portions of DOGAMI TIM-Till-02 maps, showing inundation of Manzanita-Nehalem-Wheeler area.

Plate 1 displays five scenarios, labeled as “T-shirt sizes” (S, M, L, XL, and XXL), of the impact of Cascadia Subduction Zone tsunamis that reflect the full range of what was experienced in the past and will be encountered in the future. The geologic record shows that the amount of time that has passed since the last great Cascadia earthquake (312 years since January 26, 1700) is not a reliable indicator of the size of the next one, so the size ranges are intended to fully bracket what might happen next.

Plate 2 shows tsunami inundation scenarios for two distant-source tsunamis that were modeled and originate in Alaska. These distant tsunamis are not nearly as dangerous as the local ones, as Oregonians will have several hours instead of only minutes to evacuate and the tsunamis themselves are much smaller. For these reasons DOGAMI’s focus is on the big Cascadia events. If the ground shakes for an extended period of time, don’t wait for more warning, evacuate to high ground as fast as possible.

To learn more about these publications, visit:

<http://www.oregongeology.org/pubs/tim/p-TIM-overview.htm>

DOGAMI TIM publications can be purchased on CD-ROM for \$10 each from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 965, Portland, Oregon, 97232. You may also call NNW at (971) 673-2331 or order online at <http://www.naturenw.org>. There is a \$4 shipping and handling charge for all mailed items.

Contact Information:

Oregon Department of Geology
Ian Madin, Chief Scientist
(971) 673-1542
ian.madin@state.or.us

The Oregon Department of Geology and Mineral Industries is an independent agency of the State and has a broad responsibility in developing an understanding of the state’s geologic resources and natural hazards. The Department then makes this information available to communities and individuals to help inform and reduce the risks from natural hazards, such as earthquakes, tsunamis, landslides, floods and volcanic eruptions. The Department assists in the formulation of state policy where an understanding of geologic materials, geologic resources, processes, and hazards is key to decision-making. The Department is also the lead state regulatory agency for mining, oil, gas and geothermal exploration, production and reclamation.

Learn more about Oregon's geology online: <http://www.OregonGeology.org>

DOGAMI's mission is to provide earth science information and regulation to make Oregon safe and prosperous.

Media contact: Carol DuVernois

carol.duvernois@state.or.us
800 NE Oregon St., #28,
Ste. 965
Portland, OR 97232
Phone: (971) 673-1555
Fax: (971) 673-1562
www.OregonGeology.org

Mineral Land Regulation and Reclamation Program

229 Broadalbin St. SW
Albany, OR 97321
Phone: (541) 967-2039
Fax: (541) 967-2075
info@mlrr.oregongeology.com
Gary W. Lynch,
Assistant Director

Coastal Field Office

313 SW 2nd, Ste. D
Newport, OR 97365
Phone: (541) 574-6642
Fax: (541) 265-5241
Jonathan C. Allan,
Coastal Team Leader

Eastern Oregon Field Office

Baker County Courthouse
1995 3rd St., Ste. 130
Baker City, OR 978149
Phone: (541) 523-3133
Fax: (541) 523-5992
Jason D. McClaughry,
Regional Geologist

Nature of the Northwest Information Center

800 NE Oregon St., Ste. 965
Portland, Oregon 97232
(971) 673-2331
Email: info@naturenw.org
Web: www.NatureNW.org
Donald J. Haines, Manager