

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

Vicki S. McConnell, State Geologist



NEWS RELEASE: March 9, 2012

Tsunami inundation maps for Tillamook, Garibaldi, Bay City, Cape Meares, Netarts, and Oceanside released

Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) has released 5 more publications in its new, second-generation tsunami inundation map series for communities along the Oregon coast. This set includes communities in central Tillamook County.

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

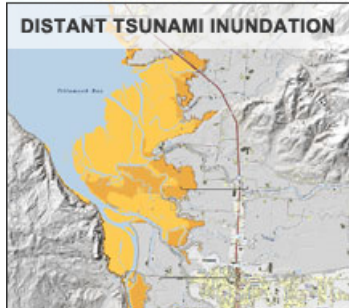
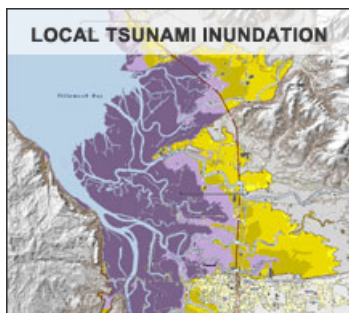
TIM-Till-06, Tsunami Inundation Maps for Tillamook North, 2012, scale 1:12,000.

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.

Each publication includes two plates: one showing local-source (Cascadia Subduction Zone) and one showing distant-source (Alaska-Aleutian Subduction Zone) tsunami inundation scenarios.



Portions of DOGAMI TIM-Till-06 maps, showing inundation of Tillamook Bay area.

The new style of inundation maps incorporates all the best tsunami science that is available today, including recent publications by colleagues studying the Cascadia Subduction Zone, updated computer simulation models using high-resolution lidar topographic data, and knowledge gained from the 2004 Sumatra, 2010 Chile, and 2011 Tōhoku earthquakes and tsunamis.

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.

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

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.

These maps include a wealth of information, including projected tsunami wave height time series charts and a measurement of the exposure each community has to the various tsunami scenarios: we count the number of buildings that are inundated by each scenario.

We hope that the public, planners, emergency managers and first responders, elected officials, and other local decision makers will use these detailed and innovative map products to mitigate risk and to reduce the loss of life and property.

To learn more about these publications and to see the anticipated publication schedule for other publications in the TIM series, visit:

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

DOGAMI publication TIM-Till-05, -06, -07, -08, and -09 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