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Description of the TsuInfo Program

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Introduction

The National Tsunami Hazard Mitigation Program is a state-federal partnership to reduce the impacts of tsunamis on coastal communities. Three federal agencies (the National Oceanic and Atmospheric Administration, the Federal Emergency Management Agency, and the U.S. Geological Survey) are working with the five Pacific states (Alaska, Hawaii, Washington, Oregon, and California) on these tsunami mitigation efforts (Bernard, 1998).

TsuInfo is the information delivery component of that program.

Information about tsunami hazards and mitigation is sparse and widely scattered. Compounding this, many of the at-risk coastal communities are small, have limited resources, and are distant from universities or other significant information centers. The TsuInfo program was established to remedy these problems by collecting the pertinent reports and getting them to the people who need them.

TsuInfo is headquartered at the Washington Department of Natural Resources, Division of Geology and Earth Resources (DGER) library. We've been intensively collecting reports about tsunamis in that library since 1994 and have issued two bibliographies to aid tsunami mitigation in Washington (Manson 1994; Manson and Walkling, 1998). Funding from the national program allows us to

expand our tsunami mitigation collection and to provide copies of these materials to emergency managers and decision makers in the at-risk communities of the Pacific states. The TsuInfo program is funded for one year but may be continued if it is successful.

The Plan

The DGER library is rapidly gathering additional materials about tsunami hazards and mitigation, especially as they apply to the Pacific states. Newly acquired mitigation materials will be announced monthly in *TsuInfo Alert*, which will also include special subject bibliographies and various announcements. Copies of reports will be given or loaned to the program beneficiaries identified by the state emergency managers.

Progress

To date, we have:

- Contacted the state representatives to the National Tsunami Hazard Mitigation Program in the five Pacific States to request their list of program participants.
- Received those lists from Washington, Oregon, and California.
- Sent information packets to the participants and state representatives.

The Future

This program was established to help coastal communities mitigate tsunami hazards. We welcome your comments and suggestions to make this program work for you.

References cited

Bernard, E. N., 1998, Program aims to reduce impact of tsunamis on Pacific states: *Eos (American Geophysical Union Transactions)*, v. 79, no. 22, p. 258, 262-263.

Manson, C. J., compiler, 1994, *Tsunamis on the Pacific coast of Washington State--An annotated bibliography and directory*: Washington Division of Geology and Earth Resources Open File Report 94-5, 17 p.

Manson, C. J.; Walkling, Lee, compilers, 1998, *Tsunamis on the Pacific Coast of Washington--A selected bibliography and directory*: Washington Division of Geology and Earth Resources Open File Report 98-4, 40 p.

TsuInfo Alert is published monthly by the Washington Department of Natural Resources, Division of Geology and Earth Resources. This publication is free upon request and is available in print (by surface mail) and electronically (by e-mail)..

TsuInfo Alert and the TsuInfo document delivery program are made possible by a grant from the Federal Emergency Management Agency via the Washington Military Department, Division of Emergency Management.

Participants in the TsuInfo program can request copies of reports listed in this issue from:

Library
Washington Department of Natural Resources
Division of Geology and Earth Resources
P.O. Box 47007
Olympia, WA 98504-7007
ph: 360/902-1472 or 360/902-1473
fax: 360/902-1785
e-mail: connie.manson@wadnr.gov or lee.walkling@wadnr.gov

staff: Connie J. Manson, Senior Library Information Specialist
Lee Walkling, Library Information Specialist
with thanks to
Jari Roloff, Geologist II/Editor



WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Belcher - Commissioner of Public Lands

New Tsunami Mitigation Materials for the TsuInfo Program

November 1 through December 31, 1998

Note: Loans or photocopies of these materials are available to participants in the TsuInfo program.
(See p. 2 for ordering information)

Blong, R. J., 1984, Volcanic hazards--A sourcebook on the effects of eruptions: Academic Press, 424 p.

Index terms: MOUNT RAINIER/PIERCE CO./MOUNT SAINT HELENS/MOUNT BAKER / VOLCANIC HAZARDS/TSUNAMIS/LAHARS

Burby, R. J., 1987, Coping with losses to infrastructure from natural hazards: University of North Carolina at Chapel Hill Center for Urban and Regional Studies Report 87-02, 10 p.

Index terms: GEOLOGIC HAZARDS - SOCIAL ASPECTS

Burby, R. J., 1991, The role of floodproof retrofitting in floodplain management. *In* Laska, S. B., Floodproof retrofitting--Homeowner self-protective behavior: University of Colorado Institute of Behavioral Science, p. 199-220.

Index terms: UNITED STATES / FLOODS AND FLOOD HAZARDS - RETROFITTING/DISASTER PLANNING

Burby, R. J.; Kartez, J. D., 1988, The anatomy of losses to state and local government property from natural disasters: University of North Carolina at Chapel Hill Center for Urban and Regional Studies Report 88-13, 10 p.

Index terms: UNITED STATES / GEOLOGIC HAZARDS - ECONOMIC ASPECTS - PROPERTY LOSSES

Dmowska, Renata; Saltzman, Barry, editors, 1999, Tsunamigenic earthquakes and their consequences: Academic Press Advances in Geophysics, v. 39, 215 p.

Index terms: / TSUNAMIS INDUCED BY EARTHQUAKES

Fiedorowicz, B. K., 1997, Geologic evidence of historic and prehistoric tsunami inundation at Seaside, Oregon: Portland State University Master of Science thesis, 197 p.

Index terms: OREGON - CLATSOP CO. - SEASIDE, ORE. / TSUNAMIS - PALEOTSUNAMI DEPOSITS/ TSUNAMIS - EVENT 1700, 1964

Geist, E. L., 1999, Local tsunamis and earthquake source parameters. *In* Dmowska, Renata; Saltzman, Barry, editors, Tsunamigenic earthquakes and their consequences: Academic Press Advances in Geophysics, v. 39, p. 117-209.

Index terms: -- / TSUNAMIS - MATH MODELS

Jackson, P. L.; Kimerling, A. J., editors, 1993, Atlas of the Pacific Northwest; 8th ed.: Oregon State University Press, 152 p.

Index terms: WASHINGTON/OREGON/IDAHO / ATLASES

Johnson, J. M., 1999, Heterogeneous coupling along Alaska-Aleutians as inferred from tsunami, seismic, and geodetic inversions. *In* Dmowska, Renata; Saltzman, Barry, editors, Tsunamigenic earthquakes and their consequences: Academic Press Advances in Geophysics, v. 39, p. 1-116.

Index terms: ALASKA / TSUNAMIS INDUCED BY EARTHQUAKES/EARTHQUAKES AND SEISMOLOGY - EVENTS 1938, 1946, 1957, 1964, 1965/TSUNAMIS - MATH MODELS

Komar, P. D., 1997, The Pacific Northwest coast--Living with the shores of Oregon and Washington: Duke University Press, 195 p.

Index terms: PACIFIC COAST/OREGON - PACIFIC COAST / SHORELINES/EROSION/TSUNAMIS / COASTAL ZONE MANAGEMENT

Mustard, P. S.; Clague, J. J.; Woodsworth, G. J.; Hickson, C. J.; Jackson, L. E., Jr.; Luternauer, J. L.; Monger, J. W. H.; Richetts, B. D.; and others, 1998, Geology and geological hazards of the greater Vancouver area. *In* Karrow, P. F.; White, O. L., editors, Urban geology of Canadian cities: Geological Association of Canada Special Paper 42, p. 39-70.

Index terms: BRITISH COLUMBIA - VANCOUVER/ FRASER LOWLAND/WHATCOM CO./SAN JUAN CO./NORTHWESTERN WASHINGTON/ AREAL GEOLOGY/GEOLOGIC HAZARDS

Nasmith, H. W.; Buck, G. F., 1998, Engineering geology of the greater Victoria area, British Columbia. *In* Karrow, P. F.; White, O. L., editors, Urban geology of Canadian cities: Geological Association of Canada Special Paper 42, p. 21-38.

Index terms: BRITISH COLUMBIA - VICTORIA/ BRITISH COLUMBIA - VANCOUVER ISLAND / ENGINEERING GEOLOGY

Pararas-Carayannis, George, 1982, The effects of tsunami on society: *Impact of Science on Society*, v. 32, no. 1, p. 71-78.

Index terms: TSUNAMIS - SOCIAL ASPECTS

Recent Research about the Cascadia Subduction Zone Earthquake, January 26, 1700

Note: This is a selection of materials in the DGER Library. Copies of these materials are available to participants in the TsuInfo program. (See p. 2 for ordering information)

Adams, John, 1996, Paleoseismology in Canada--A dozen years of progress: *Journal of Geophysical Research*, v. 101, no. B3, p. 6193-6207.

Index terms: BRITISH COLUMBIA/ WASHINGTON/ CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ GEOLOGIC RESEARCH

Adams, John, 1996, Great earthquakes recorded by turbidites off the Oregon-Washington coast. *In* Rogers, A. M.; Walsh, T. J.; Kockelman, W. J.; Priest, G. R., editors, *Assessing earthquake hazards and reducing risk in the Pacific Northwest*: U.S. Geological Survey Professional Paper 1560, p. 147-158.

Index terms: WASHINGTON/ OREGON/ CONTINENTAL MARGIN/ CASCADIA SUBDUCTION ZONE/ CASCADIA CHANNEL / MARINE SEDIMENTS - TURBIDITES/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Atwater, B. F.; Nelson, A. R.; Clague, J. J.; Carver, G. A.; Yamaguchi, D. K.; Bobrowsky, P. T.; Bourgeois, Joanne; Palmer, S. P.; and others, 1995, Summary of coastal geologic evidence for past great earthquakes at the Cascadia subduction zone: *Earthquake Spectra*, v. 11, no. 1, p. 1-18.

Index terms: CASCADIA SUBDUCTION ZONE/ PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT/ GEOCHRONOLOGY/ EARTHQUAKE-INDUCED LIQUEFACTION/ TSUNAMIS

Atwater, B. F., 1992, Geologic evidence for earthquakes during the past 2000 years along the Copalis River, southern coastal Washington: *Journal of Geophysical Research*, v. 97, no. B2, p. 1901-1919.

Index terms: COPALIS RIVER/ GRAYS HARBOR CO. / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / QUATERNARY - RECENT/ SUBSIDENCE AND UPLIFT/ TSUNAMIS/ EARTHQUAKE-INDUCED LIQUEFACTION

Atwater, B. F., 1987, Evidence for great Holocene earthquakes along the outer coast of Washington State: *Science*, v. 236, no. 4804, p. 942-944.

Index terms: PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBDUCTION/ TSUNAMIS

Atwater, B. F., 1996, Coastal evidence for great earthquakes in western Washington. *In* Rogers, A. M.; Walsh, T. J.; Kockelman, W. J.; Priest, G. R., editors, *Assessing earthquake hazards and reducing risk in the Pacific Northwest*: U.S. Geological Survey Professional Paper 1560, p. 77-90.

Index terms: GRAYS HARBOR CO./ PACIFIC CO. / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT/ TSUNAMIS

Atwater, B. F., 1996, Checklist for downsizing the greatest Cascadia earthquakes [abstract]: *Geological Society of America Abstracts with Programs*, v. 28, no. 5, p. 44.

Index terms: CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ GEOLOGIC RESEARCH

Atwater, B. F., 1996, Coastal geologic evidence for past great earthquakes at the Cascadia subduction zone [abstract]: *PanPacific Hazard '96, Abstracts* [downloaded Sept. 28, 1996, from <http://hoshi.cic.sfu.ca/~anderson/hazards96/>], 1 p.

Index terms: CASCADIA SUBDUCTION ZONE/ PACIFIC EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Atwater, B. F., compiler, 1994, *Geology of the Holocene liquefaction features along the lower Columbia River at Marsh, Brush, Price, Hunting, and Wallace Islands, Oregon and Washington*: U.S. Geological Survey Open-File Report 94-209, 64 p.

Index terms: COLUMBIA RIVER BANKS/ WAHKIAKUM CO./ MARSH ISLAND/ BRUSH ISLAND/ PRICE ISLAND/ HUNTING ISLAND/ WALLACE ISLAND / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ EARTHQUAKE-INDUCED LIQUEFACTION

Atwater, B. F.; Hemphill-Haley, Eileen, 1997, Recurrence intervals for great earthquakes in coastal Washington [abstract]: *Geological Society of America Abstracts with Programs*, v. 29, no. 6, p. A-131.

Index terms: PACIFIC COAST/ CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY - RECURRENCE

Atwater, B. F.; Hemphill-Haley, Eileen, 1996, Preliminary estimates of recurrence intervals for great earthquakes of the past 3500 years at northeastern Willapa Bay, Washington: U.S. Geological Survey Open-File Report 96-1, 88 p., 1 plate.

Index terms: PACIFIC CO./ WILLAPA BAY/ NIAWIAKUM RIVER/ WILLAPA RIVER / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ GEOCHRONOLOGY - RADIOCARBON DATING/ SHORELINES/ STRATIGRAPHY/ PALEOBOTANY - DIATOMS/ EARTHQUAKE PREDICTION

Atwater, B. F.; Hemphill-Haley, Eileen, 1997, Recurrence intervals for great earthquakes of the past 3,500 years at northeastern Willapa Bay, Washington: U.S. Geological Survey Professional Paper 1576, 108 p.

Index terms: CASCADIA SUBDUCTION ZONE/ WILLAPA BAY/ PACIFIC CO. / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ EARTHQUAKE PREDICTION

Atwater, B. F.; Lewis, D. R.; Hemphill-Haley, Eileen, 1995, Negligible emergence shortly before coseismic subsidence at an

archaeological site beside Willapa Bay [abstract]: Geological Association of Canada/ Mineralogical Association of Canada Annual Meeting Final Program and Abstracts, v. 20, p. A-4.

Index terms: PACIFIC CO./ WILLAPA BAY / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ STRUCTURAL GEOLOGY AND TECTONICS - SUBSIDENCE AND UPLIFT/ ARCHAEOLOGY AND HISTORY

Atwater, B. F.; Stuiver, Minze; Yamaguchi, D. K., 1991, Radiocarbon test of earthquake magnitude at the Cascadia subduction zone: *Nature*, v. 353, no. 6340, p. 156-158.

Index terms: CASCADIA SUBDUCTION ZONE/ PACIFIC COAST (WASHINGTON)/ GRAYS HARBOR CO./ PACIFIC CO. / GEOCHRONOLOGY - RADIOCARBON DATING/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Atwater, B. F.; Yamaguchi, D. K., 1991, Sudden, probably coseismic submergence of Holocene trees and grass in coastal Washington State: *Geology*, v. 19, no. 7, p. 706-709.

Index terms: PACIFIC CO./ WILLAPA BAY/ GRAYS HARBOR CO./ GRAYS HARBOR / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ QUATERNARY - HOLOCENE/ GEOCHRONOLOGY - DENDROCHRONOLOGY/ SUBSIDENCE AND UPLIFT

Benson, B. E.; Grimm, K. A.; Clague, J. J., 1997, Tsunami deposits beneath tidal marshes on northwestern Vancouver Island, British Columbia: *Quaternary Research*, v. 48, no. 2, p. 192-204.

Index terms: BRITISH COLUMBIA - VANCOUVER ISLAND / TSUNAMIS / SHORELINES / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / EARTHQUAKES AND SEISMOLOGY - EVENTS 1964 AND 1700

Carver, D. H.; Carver, G. A., 1996, Earthquake and thunder--Native oral histories of paleoseismicity along the southern Cascadia subduction zone [abstract]: *Geological Society of America Abstracts with Programs*, v. 28, no. 5, p. 54.

Index terms: CASCADIA SUBDUCTION ZONE/ OREGON - PACIFIC COAST/ CALIFORNIA - PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ ARCHAEOLOGY AND HISTORY

Clague, J. J.; Bobrowsky, P. T.; Hutchinson, Ian; Mathewes, R. W., 1998, Geological evidence for past large earthquakes in southwest British Columbia. *In* Geological Survey of Canada, Cordillera and Pacific Margin: Geological Survey of Canada Current Research 1998-A, p. 217-224.

Index terms: BRITISH COLUMBIA - VANCOUVER ISLAND/ CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ TSUNAMIS/ SUBSIDENCE AND UPLIFT

Clague, J. J., 1997, Evidence for large earthquakes at the Cascadia subduction zone: *Reviews of Geophysics*, v. 35, no. 4, p. 439-460.

Index terms: CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Clague, J. J.; Bobrowsky, P. T., 1994, Evidence for a large earthquake and tsunami 100-400 years ago on western Vancouver Island, British Columbia: *Quaternary Research*, v. 41, no. 2, p. 176-184.

Index terms: BRITISH COLUMBIA - VANCOUVER ISLAND/ PACIFIC COAST (WASHINGTON)/ OREGON - PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ TSUNAMIS

Clague, J. J.; Bobrowsky, P. T.; Hyndman, R. D., 1995, The threat of a great earthquake in southwestern British Columbia: *BC Professional Engineer*, v. 46, no. 9, p. 4-8.

Index terms: BRITISH COLUMBIA/ WASHINGTON/ CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Clague, J. J., compiler and editor, 1996, Paleoseismology and seismic hazards, southwestern British Columbia: *Geological Survey of Canada Bulletin* 494, 88 p.

Index terms: BRITISH COLUMBIA/ WASHINGTON/ CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT/ EARTHQUAKE-INDUCED LIQUEFACTION & LANDSLIDES

Darrieno, M. E.; Peterson, C. D., 1995, Magnitude and frequency of subduction-zone earthquakes along the northern Oregon coast in the past 3,000 years: *Oregon Geology*, v. 57, no. 1, p. 3-12.

Index terms: OREGON - PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Dickenson, S. E.; Obermeier, S. F.; Roberts, T. H.; Martin, J. R., II, 1994, Constraints on earthquake shaking in the lower Columbia River region of Washington and Oregon, during late-Holocene time. *In* Proceedings, Fifth U.S. National Conference on Earthquake Engineering: Earthquake Engineering Research Institute, v. 3, p. 313-322.

Index terms: COLUMBIA RIVER / COWLITZ CO. / WAHKIAKUM CO. / OREGON - NORTHWESTERN / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / EARTHQUAKE-INDUCED LIQUEFACTION / EARTHQUAKES AND SEISMOLOGY - GROUND MOTION, EVENT 300 YBP

Earth, 1998, Stumped--Old trees remember a killer quake: *Earth*, v. 7, no. 2, p. 9-10.

Index terms: PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY - EVENT 1700 / TSUNAMIS (JAPAN) / GEOCHRONOLOGY - DENDROCHRONOLOGY

Hart, Roger; Peterson, C. D., 1997, Episodically buried forests in the Oregon surf zone: *Oregon Geology*, v. 59, no. 6, p. 131-144.

Index terms: OREGON - PACIFIC COAST/ CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT/ SHORELINES

Hemphill-Haley, Eileen, 1992, The application of diatom paleoecology to interpretations of Holocene relative sea-level

change and coseismic subsidence in southwestern Washington: University of California, Santa Cruz Doctor of Philosophy thesis, 321 p.

Index terms: WILLAPA BAY/ PACIFIC CO. / MARINE BIOLOGY/ PALEOBOTANY - DIATOMS/ SEA LEVEL/ QUATERNARY - HOLOCENE/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT

Hemphill-Haley, Eileen, 1995, Diatom evidence for earthquake- induced subsidence and tsunami 300 yr ago in southern coastal Washington: Geological Society of America Bulletin, v. 107, no. 3, p. 367-378.

Index terms: PACIFIC CO. / WILLAPA BAY - NIAWIAKUM RIVER VALLEY / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY - 300 YEAR EVENT / TSUNAMIS / SUBSIDENCE AND UPLIFT / PALEOBOTANY - DIATOMS

Hutchinson, Ian; McMillan, A. D., 1997, Archaeological evidence for village abandonment associated with late Holocene earthquakes at the northern Cascadia subduction zone: Quaternary Research, v. 48, no. 1, p. 79-87.

Index terms: BRITISH COLUMBIA - VANCOUVER ISLAND / CASCADIA SUBDUCTION ZONE / PACIFIC CO. / WILLAPA BAY / GRAYS HARBOR CO. / GRAYS HARBOR / CLALLAM CO. / NEAH BAY / MAKAH RESERVATION / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / ARCHAEOLOGY AND HISTORY / TSUNAMIS / EARTHQUAKES AND SEISMOLOGY - EVENTS 300 YBP, 1000-1100 YBP, ETC.

Jacoby, G. C.; Carver, Gary A.; Wagner, Wendy, 1995, Trees and herbs killed by an earthquake ~300 yr ago at Humboldt Bay, California: Geology, v. 23, no. 1, p. 77-80.

Index terms: CALIFORNIA - HUMBOLDT BAY/ CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Jacoby, G. C., 1995, Tree-ring dating of coseismic coastal subsidence in the Pacific Northwest region. *In* Jacobson, M. L., compiler, National Earthquake Hazards Reduction Program annual project summaries--XXXVI: U.S. Geological Survey Open-File Report 95-210, p. 459-461.

Index terms: PACIFIC COAST/ GRAYS HARBOR CO./ PACIFIC CO./ COPALIS RIVER/ COLUMBIA RIVER/ WILLAPA BAY / STRUCTURAL GEOLOGY AND TECTONICS - SUBSIDENCE AND UPLIFT/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ GEOCHRONOLOGY - DENDROCHRONOLOGY

Jacoby, G. C., 1996?, Tree-ring dating of coseismic coastal subsidence in the Pacific Northwest region: U.S. Geological Survey contract report, 15 p.

Index terms: GRAYS HARBOR CO./ PACIFIC CO./ PACIFIC COAST / GEOCHRONOLOGY - DENDROCHRONOLOGY/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Jacoby, G. C., 1995, Tree-ring applications to paleoseismicity studies--Pacific Northwest [abstract]: Geological Association of

Canada/ Mineralogical Association of Canada Annual Meeting Final Program and Abstracts, v. 20, p. A-117.

Index terms: PACIFIC NORTHWEST / GEOCHRONOLOGY - DENDROCHRONOLOGY/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Jacoby, G. C., 1996, Tree-ring dating of coseismic coastal subsidence in the Pacific Northwest region. *In* U.S. Geological Survey, Annual project summaries--Volume 37, Pacific Northwest: U.S. Geological Survey, p. 61-64. [reports downloaded Dec. 2, 1998 from http://erp-web.er.usgs.gov/reports/VOL37/pn_vol37.htm]

Index terms: WILLAPA RIVER AREA / PACIFIC CO. / PRICE ISLAND / WAHIAKUM CO. / GEOCHRONOLOGY - DENDROCHRONOLOGY / EARTHQUAKES AND SEISMOLOGY - EVENT 1700

Jacoby, G. C.; Bunker, D. E.; Benson, B. E., 1997, Tree-ring evidence for an A.D. 1700 Cascadia earthquake in Washington and northern Oregon: Geology, v. 25, no. 11, p. 999-1002, Data Depository item 9756.

Index terms: CASCADIA SUBDUCTION ZONE / GRAYS HARBOR CO. / PACIFIC CO. / WAHIAKUM CO. / COPALIS RIVER / WILLAPA RIVER / COLUMBIA RIVER / PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / GEOCHRONOLOGY - DENDROCHRONOLOGY / GEOCHRONOLOGY - RADIOCARBON DATING

Kanamori, Hiroo; Heaton, T. H., 1996, The wake of a legendary earthquake: Nature, v. 379, no. 6562, p. 203-204.

Index terms: CASCADIA SUBDUCTION ZONE / PACIFIC COAST / TSUNAMIS / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Kelsey, H. M.; Witter, R. C.; Hemphill-Haley, Eileen, 1998, Response of a small Oregon estuary to coseismic subsidence and postseismic uplift in the past 300 years: Geology, v. 26, no. 3, p. 231-234.

Index terms: OREGON - PACIFIC COAST - SIXES RIVER ESTUARY / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / SUBSIDENCE AND UPLIFT / SHORELINES / PALEOBOTANY - DIATOMS

Kerr, R. A., 1995, Faraway tsunami hints at a really big Northwest quake: Science, v. 267, no. 5200, p. 962.

Index terms: CASCADIA SUBDUCTION ZONE/ JAPAN / TSUNAMIS/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Mathewes, R. W.; Clague, J. J., 1994, Detection of large prehistoric earthquakes in the Pacific Northwest by microfossil analysis: Science, v. 264, no. 5159, p. 688-691.

Index terms: BRITISH COLUMBIA - VANCOUVER ISLAND, FRASER RIVER / SEA LEVEL/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ PALEONTOLOGY

Meyers, R. A.; Smith, D. G.; Jol, H. M.; Peterson, C. D., 1996, Evidence for eight great earthquake-subsidence events detected

with ground-penetrating radar, Willapa barrier, Washington: *Geology*, v. 24, no. 2, p. 99-102.

Index terms: WILLAPA BAY/ PACIFIC CO. / GEOCHRONOLOGY - RADIOCARBON DATING/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ GEOPHYSICS - RADAR SURVEYS/ SUBSIDENCE AND UPLIFT

Mofjeld, H. O.; Foreman, M. G. G.; Ruffman, Alan, 1997, West Coast tides during Cascadia subduction zone tsunamis: *Geophysical Research Letters*, v. 24, no. 17, p. 2215-2218.

Index terms: CASCADIA SUBDUCTION ZONE / TSUNAMIS - MATH MODELS / OCEANOGRAPHY - TIDES / EARTHQUAKES AND SEISMOLOGY - EVENT 1700

Nelson, A. R.; Atwater, B. F.; Bobrowsky, P. T.; Bradley, L.-A.; Clague, J. J.; Garver, G. A.; Darienzo, M. E.; Grant, W. C.; Krueger, H. W.; and others, 1995, Radiocarbon evidence for extensive plate-boundary rupture about 300 years ago at the Cascadia subduction zone: *Nature*, v. 378, no. 6555, p. 371-374.

Index terms: CASCADIA SUBDUCTION ZONE / GEOCHRONOLOGY - RADIOCARBON DATING / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / EARTHQUAKES AND SEISMOLOGY - EVENT 1700

Nelson, A. R.; Personius, S. F., 1996, Great-earthquake potential in Oregon and Washington--An overview of recent coastal geologic studies and their bearing on segmentation of Holocene ruptures, central Cascadia subduction zone. *In* Rogers, A. M.; Walsh, T. J.; Kockelman, W. J.; Priest, G. R., editors, *Assessing earthquake hazards and reducing risk in the Pacific Northwest*: U.S. Geological Survey Professional Paper 1560, p. 91-114.

Index terms: CASCADIA SUBDUCTION ZONE/ WASHINGTON/ OREGON/ PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT

Obermeier, S. F.; Dickenson, S. E., 1997, Liquefaction evidence for the strength of ground motions from a Cascadia subduction earthquake about 300 years ago. *In* Wang, Yumei; Neuendorf, K. K. E., editors, *Earthquakes--Converging at Cascadia*: Oregon Department of Geology and Mineral Industries Special Paper 28; Association of Engineering Geologists Special Publication 10, p. 53-77.

Index terms: COLUMBIA RIVER (LOWER) / HUNTING ISLANDS / WAHAKIUM CO. / EARTHQUAKES AND SEISMOLOGY - GROUND MOTION / EARTHQUAKE-INDUCED LIQUEFACTION / EARTHQUAKES AND SEISMOLOGY - EVENT 300 YBP / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Obermeier, S. F., 1995, Preliminary estimates of the strength of prehistoric shaking in the Columbia River valley and the southern half of coastal Washington, with emphasis for a Cascadia subduction zone earthquake about 300 years ago: U.S. Geological Survey Open-File Report 94-589, 46 p.

Index terms: COLUMBIA RIVER (LOWER) / PACIFIC COAST / SOUTHWESTERN WASHINGTON / CHEHALIS RIVER VALLEY / HUMPTULIPS RIVER VALLEY / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 /

EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / EARTHQUAKE-INDUCED LIQUEFACTION

Obermeier, S. F.; Dickenson, S. E., 1997, Peak accelerations from liquefaction evidence, for the subduction earthquake of 1700 AD, Washington-Oregon [abstract]: Association of Engineering Geologists, 40th Annual Meeting, Program with Abstracts, p. 132-133.

Index terms: WASHINGTON / OREGON / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / EARTHQUAKE-INDUCED LIQUEFACTION

Obermeier, S. F.; Dickenson, S. E., 1997, Peak onshore accelerations from liquefaction evidence, for the subduction earthquake of 1700 A.D., Washington-Oregon [abstract]: *Eos (American Geophysical Union Transactions)*, v. 78, no. 17, Supplement, p. S51.

Index terms: PACIFIC COAST / OREGON - PACIFIC COAST / COLUMBIA RIVER (LOWER) / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / EARTHQUAKES AND SEISMOLOGY - GROUND MOTION - MATH MODELS / EARTHQUAKE-INDUCED LIQUEFACTION

Oregonian, 1996, Much of Northwest's quake history written in mud: *Geological Society of the Oregon Country Geological Newsletter*, v. 63, no. 1, p. 2-3.

Index terms: WILLAPA BAY/ PACIFIC CO. / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Peterson, C. D.; Priest, G. R., 1996, Paleotsunami barrier-overtopping--One piece of the puzzle [abstract]: *Oregon Geology*, v. 58, no. 4, p. 96-97.

Index terms: PACIFIC COAST / TSUNAMIS/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Peterson, C. D.; Darienzo, M. E., 1996, Discrimination of climatic, oceanic, and tectonic mechanisms of cyclic marsh burial. *In* Rogers, A. M.; Walsh, T. J.; Kockelman, W. J.; Priest, G. R., editors, *Assessing earthquake hazards and reducing risk in the Pacific Northwest*: U.S. Geological Survey Professional Paper 1560, p. 115-146.

Index terms: OREGON - ALSEA BAY/ CASCADIA SUBDUCTION ZONE / SHORELINES - MARSHES/ SUBSIDENCE AND UPLIFT/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Peterson, C. D.; Barnett, E. T.; Briggs, G. G.; Carver, G. A.; Clague, J. J.; Darienzo, M. E., 1997, Estimates of coastal subsidence from great earthquakes in the Cascadia subduction zone, Vancouver Island, B.C., Washington, Oregon, and northernmost California: Oregon Department of Geology and Mineral Industries Open-File Report O-97-5, 44 p.

Index terms: CASCADIA SUBDUCTION ZONE/ PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT

Peterson, C. D.; Priest, G. R., 1995, Preliminary reconnaissance survey of Cascadia paleotsunami deposits in Yaquina Bay, Oregon: *Oregon Geology*, v. 57, no. 2, p. 33-40.

Index terms: OREGON - PACIFIC COAST/ CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ TSUNAMIS

Priem, Shannon, 1998, Tree ring studies establish A.D. 1700 as year of huge Cascadia earthquake: *Oregon Geology*, v. 60, no. 1, p. 20.

Index terms: CASCADIA SUBDUCTION ZONE/ PACIFIC COAST/ OREGON - PACIFIC COAST / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ GEOCHRONOLOGY - DENDROCHRONOLOGY

Reinhart, M. A.; Bourgeois, Joanne, 1995, A paleohydraulic reconstruction of 300-year old tsunami deposits at Willapa Bay, Washington State [abstract]. *In* University of Washington Quaternary Research Center, Tsunami deposits--Geologic warnings of future inundation: University of Washington Quaternary Research Center, p. 26.

Index terms: PACIFIC CO. / WILLAPA BAY / CASCADIA SUBDUCTION ZONE / GRAYS HARBOR / GRAYS HARBOR CO. / TSUNAMIS / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / EARTHQUAKES AND SEISMOLOGY - EVENT 300 YBP

Satake, Kenji; Bourgeois, Joanne; Reinhart, M. A., 1994, Tsunami heights in the Pacific Northwest from Cascadia subduction earthquakes. *In* Prentice, C. S.; Schwartz, D. P.; Yeats, R. S., convenors, Proceedings of the Workshop on Paleoseismology, 18-22 September 1994, Marshall, California: U.S. Geological Survey Open-File Report 94-568, p. 163-165.

Index terms: PACIFIC COAST - WASHINGTON, OREGON, CALIF./ CASCADIA SUBDUCTION ZONE / TSUNAMIS - MATH MODELS/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Satake, Kenji; Wang, Kelin, 1998, Coseismic fault slip of the 1700 Cascadia earthquake inferred from Japanese tsunami observations and its implications to seismic coupling [abstract]: *Eos (American Geophysical Union Transactions)*, v. 79, no. 45, Supplement, p. F892.

Index terms: CASCADIA SUBDUCTION ZONE / JAPAN (INUNDATED) / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / TSUNAMIS - EVENT 1700

Satake, Kenji; Shimazaki, Kunihiko; Tsuji, Yoshinobu; Ueda, Kazue, 1996, Time and size of a giant earthquake in Cascadia inferred from Japanese tsunami records of January 1700: *Nature*, v. 379, no. 6562, p. 246-249.

Index terms: CASCADIA SUBDUCTION ZONE / PACIFIC COAST / TSUNAMIS / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY

Shennan, Ian; Long, A. J.; Rutherford, M. M.; Green, F. M.; Innes, J. B.; Lloyd, J. M.; Zong, Yongqiang; Walker, K. J.,

1996, Tidal marsh stratigraphy, sea-level change and large earthquakes, 1--A 5000 year record in Washington, U.S.A.: *Quaternary Science Reviews*, v. 15, no. 10, p. 1023-1059.

Index terms: PACIFIC COAST/ JOHNS RIVER/ CASCADIA SUBDUCTION ZONE/ GRAYS HARBOR CO. / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT

Synolakis, C. E., 1995, Tsunami prediction [letter]: *Science*, v. 270, no. 5233, p. 15-16.

Index terms: CASCADIA SUBDUCTION ZONE / TSUNAMIS - MATHEMATICAL MODELS / EARTHQUAKES AND SEISMOLOGY - EVENT 1700

Washington Geology, 1997, Trees ring in 1700 as year of huge Northwest earthquake: *Washington Geology*, v. 25, no. 4, p. 40.

Index terms: CASCADIA SUBDUCTION ZONE/ PACIFIC COAST / GEOCHRONOLOGY - DENDROCHRONOLOGY/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / TSUNAMIS

Wexler, Devra, 1998, "Rings" around the Pacific: *Geotimes*, v. 43, no. 1, p. 11-12.

Index terms: CASCADIA SUBDUCTION ZONE / JAPAN / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / TSUNAMIS / GEOCHRONOLOGY - DENDROCHRONOLOGY

Williams, H. F. L., 1995, Stratigraphic and foraminiferal evidence for earthquake-incurred subsidence and an attending tsunami about 300 years ago at Sooke Inlet, southern Vancouver Island, Canada [abstract]. *In* University of Washington Quaternary Research Center, Tsunami deposits--Geologic warnings of future inundation: University of Washington Quaternary Research Center, p. 13.

Index terms: BRITISH COLUMBIA - VANCOUVER ISLAND / TSUNAMIS/ EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ SUBSIDENCE AND UPLIFT

Wuethrich, Bernice, 1995, Cascadia countdown: *Earth*, v. 4, no. 5, p. 24-31.

Index terms: CASCADIA SUBDUCTION ZONE/ WESTERN WASHINGTON/ OREGON - WESTERN / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY/ EARTHQUAKE PREDICTION

Yamaguchi, D. K.; Atwater, B. F.; Bunker, . E.; Benson, B. E.; Reid, M. S., 1997, Tree-ring dating the 1700 Cascadia earthquake: *Nature*, v. 389, no. 6654, p. 922-924.

Index terms: CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY - PALEOSEISMOLOGY / EARTHQUAKES AND SEISMOLOGY - EVENT 1700 / GEOCHRONOLOGY - DENDROCHRONOLOGY

Tsunami Mitigation

Note: This is a selection of materials in the DGER Library. Copies of these materials are available to participants in the TsuInfo program. (See p. 2 for ordering information)

Editor's note: Because of the length of this list, it is divided into these sections:

Subjects: General Works; News Media; Seawalls, Breakwaters, Tsunami Forests; Social Aspects; Warning Systems
States: Alaska; California; Hawaii; Oregon; Washington

SUBJECTS:

GENERAL WORKS

American Institute of Professional Geologists, 1993, The citizens' guide to geologic hazards--A guide to understanding geologic hazards, including asbestos, radon, swelling soils, earthquakes, volcanoes, landslides, subsidence, floods, and coastal hazards: American Institute of Professional Geologists, 134 p.

Index terms: GEOLOGIC HAZARDS /LANDSLIDES AND SLOPE STABILITY /EARTHQUAKES AND SEISMOLOGY /VOLCANISM /TSUNAMIS - MITIGATION /RADON /FLOODS

Ansevin, Andrea; Good, J. W., 1993, A strategy for improving coastal natural hazards management--Oregon's policy working group approach. *In* Magoon, O. T.; Wilson, W. S.; Converse, Hugh; Tobin, L. T., editors, Coastal zone '93; Proceedings of the 8th symposium on coastal and ocean management: American Society of Civil Engineers, v. 3, p. 2829-2841.

Index terms: OREGON - PACIFIC COAST /CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY /TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - PLANNING

Bernard, E. N., 1995, Tsunami hazard mitigation--The role of tsunami inundation maps [abstract]. *In* University of Washington Quaternary Research Center, Tsunami deposits--Geologic warnings of future inundation: University of Washington Quaternary Research Center, p. 1.

Index terms: PACIFIC COAST / TSUNAMIS - MITIGATION /TSUNAMIS - MATHEMATICAL MODELS /MAPS - HAZARD

Bernard, E. N., 1997, Reducing tsunami hazards along U.S. coastlines. *In* Hebenstreit, G., editor, Perspectives on tsunami hazard reduction: Kluwer Academic Publishers, p. 189-203.

Index terms: PACIFIC COAST /CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION /GEOLOGIC HAZARD MITIGATION

Bernard, E. N., 1998, Program aims to reduce impact of tsunamis on Pacific states: *Eos* (American Geophysical Union Transactions), v. 79, no. 22, p. 258, 262-263.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /PACIFIC COAST /CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Boyce, J. A., 1985, Tsunami hazard mitigation--The Alaskan experience since 1964: University of Washington Master of Arts thesis, 109 p.

Index terms: ALASKA / TSUNAMIS - MITIGATION /DISASTER PLANNING /GEOLOGIC HAZARDS - PLANNING

Cox, D. C., 1984, Importance of local contemporary reports of effects of historical tsunamis in tsunami risk analysis: *Science of Tsunami Hazards*, v. 2, no. 2, p. 67-70.

Index terms: HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - SOCIAL ASPECTS /HAZARD MITIGATION /HISTORY AND ARCHAEOLOGY

Curtis, G. D.; Adams, W. M., 1985, Needs and developments in tsunami monitoring: *Science of Tsunami Hazards*, v. 3, no. 1, p. 34-40.

Index terms: TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /WARNING SYSTEMS /HAZARD MITIGATION

Farreras, S. F.; Sanchez, A. J., 1991, The tsunami threat on the Mexican west coast--A historical analysis and recommendations for hazard mitigation. *In* Bernard, E. N., editor, Tsunami hazard--A practical guide to tsunami hazard reduction: Kluwer Academic Publishers, p. 301-316. (reprinted from *Natural Hazards*, v. 4, no. 2-3.)

Index terms: MEXICO - PACIFIC COAST / TSUNAMIS - MITIGATION /TSUNAMIS - WARNING SYSTEMS

Good, J. W., 1995, Tsunami education planning workshop findings and recommendations: U.S. National Oceanic and Atmospheric Administration Pacific Marine Environmental Laboratory NOAA Technical Memorandum ERL PMEL-106, 41 p.

Index terms: CASCADIA SUBDUCTION ZONE /PACIFIC COAST /OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - EDUCATION /GEOLOGIC HAZARDS /EARTHQUAKES AND SEISMOLOGY - PLANNING AND POLICY

Gusiakov, V. K., editor, 1997, Tsunami mitigation and risk assessment--Report of the International Workshop, Petropavlovsk-Kamchatskiy, Russia, August 21-24, 1996: Russian Academy of Sciences, 68 p.

Index terms: TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - MITIGATION

Hays, W. W., chair; Costello, J. A., compiler, 1985, Tsunamis--Hazard definition and effects on facilities: U.S. Geological Survey Open-File Report 85-533, 138 p.

Index terms: -- / TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS /BUILDINGS AND BUILDING STANDARDS

Hebenstreit, G. T., 1987, Tsunami threat analysis for the Pacific Northwest. *In* Jacobson, M. L.; Rodriguez, T. R., compilers, National Earthquake Hazards Reduction Program, summaries of technical reports Volume XXIV: U.S. Geological Survey Open-File Report 87-374, p. 605-608.

Index terms: WESTERN WASHINGTON /JUAN DE FUCA PLATE /GEOLOGIC HAZARDS /TSUNAMIS - MITIGATION

Hebenstreit, G. T.; Preuss, Jane, 1988, Loss estimation methodology--Projecting the risk from a tsunami generated by a Juan de Fuca plate earthquake. *In* Jacobson, M. L., compiler, National Earthquake Hazards Reduction Program, summaries of technical reports Volume XXVII: U.S. Geological Survey Open-File Report 88-673, p. 467-469.

Index terms: PACIFIC COAST / TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - TSUNAMIS /GEOLOGIC HAZARDS - SOCIAL ASPECTS

Hebenstreit, G. T.; Preuss, Jane, 1989, Projecting risks from a tsunami generated in the Juan de Fuca region. *In* Jacobson, M. L., compiler, National Earthquake Hazards Reduction Program, summaries of technical reports Volume XXVIII: U.S. Geological Survey Open-File Report 89-453, p. 461.

Index terms: GRAYS HARBOR /GRAYS HARBOR CO. / TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - TSUNAMIS

Hegemeyer, Richard, 1998, Session--National Tsunami Hazard Mitigation Program; Topic--Tsunami hazard mitigation. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 27-33.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Horikawa, Kiyoshi; Shuto, Nobuo, 1983, Tsunami disasters and protection measures in Japan. *In* Iida, Kumizi; Iwasaki, Toshio, editors, Tsunamis--Their science and engineering: Terra Scientific Publishing Company [Tokyo] Advances in Earth and Planetary Sciences, p. 9-22.

Index terms: JAPAN / TSUNAMIS - EVENTS /TSUNAMIS - MITIGATION

Hull, D. A.; Karel, Angeline, 1997, Strategy for tsunami mitigation and public awareness: Oregon Department of Geology and Mineral Industries, 1 v.

Index terms: OREGON /PACIFIC COAST / TSUNAMIS - MITIGATION /DISASTER PLANNING - MITIGATION

Iwasaki, Toshio, 1983, A hybrid simulation system developed for model tests of tsunamis in a harbor. *In* Iida, Kumizi; Iwasaki, Toshio, editors, Tsunamis--Their science and engineering: Terra Scientific Publishing Company [Tokyo] Advances in Earth and Planetary Sciences, p. 409-421.

Index terms: JAPAN - KAMAISHI BAY, RYOISHI BAY / TSUNAMIS - MITIGATION - SEA WALLS AND BREAKWATERS /TSUNAMIS - MATH MODELS

Jonientz-Trisler, Chris, 1995, Cascadia response to the October 4, 1994 Kurile Islands Mw 8.3 earthquake-induced tsunami warning

[abstract]: Eos (American Geophysical Union Transactions), v. 76, no. 17, Supplement, p. S305.

Index terms: PACIFIC COAST /CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION /EMERGENCY MANAGEMENT AND PREPAREDNESS /DISASTER PLANNING

Kuroiwa, Julio; Zupka, Dusan, reviser; Schneider, C. V., translator, 1995, Tsunamis--Population evacuation and land use planning for disaster mitigation; Localities studied in Peru (1981-1994): UNDHA, 1 v.

Index terms: PERU / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Morgan, Joseph, 1984, A tsunami avoidable susceptibility index: Science of Tsunami Hazards, v. 2, no. 1, p. 3-12.

Index terms: TSUNAMIS - MITIGATION /TSUNAMIS - SOCIAL ASPECTS /TSUNAMIS - PLANNING AND POLICY /GEOLOGIC HAZARDS - RANKING SYSTEMS

Pararas-Carayannis, George, 1988, Tsunami warning system in the Pacific--An example of international cooperation. *In* El-Sabh, M. I.; Murty, T. S., editors, Natural and man-made hazards; Proceedings of the international symposium held at Rimouski, Quebec, 1986: D. Reidel Publishing Co., p. 773-780.

Index terms: PACIFIC OCEAN /PACIFIC COAST / TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - PLANNING - WARNING SYSTEMS

Peterson, Curt D., 1998, Communicating about geologic hazards after the news media have lost interest--Case study of Cascadia tsunami mitigation, USA [abstract]: Geological Society of America Abstracts with Programs, v. 30, no. 7, p. A-106.

Index terms: CASCADIA SUBDUCTION ZONE /OREGON - PACIFIC COAST /PACIFIC COAST / TSUNAMIS - MITIGATION /NEWS MEDIA /DISASTER PLANNING

Preuss, Jane, 1983, Land management guidelines for tsunami hazard zones. *In* Iida, Kumizi; Iwasaki, Toshio, editors, Tsunamis--Their science and engineering: Terra Scientific Publishing Company [Tokyo] Advances in Earth and Planetary Sciences, p. 527-539.

Index terms: TSUNAMIS - MITIGATION /LAND USE PLANNING /DISASTER PLANNING

Preuss, Jane, 1984, Comprehensive planning in tsunami prone areas. *In* Proceedings of the 8th World Conference on Earthquake Engineering: Prentice-Hall [Englewood-Cliffs, N.J.], v. 7, p. 793-800.

Index terms: (NOT GEOGRAPHICALLY SPECIFIC) / TSUNAMIS - MITIGATION /DISASTER PLANNING /LAND USE PLANNING

Preuss, Jane, 1987, Coastal high hazard mitigation--Comprehensive planning for areas vulnerable to tsunamis. *In* Association of State Floodplain Managers, Realistic approaches to better floodplain management; 11th annual conference, Proceedings: University of Colorado Natural Hazards Information Center Special Publication 18, p. 317-322.

Index terms: GRAYS HARBOR CO. /ABERDEEN, WASH. / TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS

Preuss, Jane, 1988, Coastal effects of a great subduction earthquake--Regional land use implications. *In* Hays, W. W., editor, Workshop on "Evaluation of earthquake hazards and risk in the Puget Sound and Portland areas"; Proceedings of conference XLII: U.S. Geological Survey Open-File Report 88-541, p. 234-245.

Index terms: PACIFIC COAST / GEOLOGIC HAZARDS - EARTHQUAKES /LAND USE PLANNING /TSUNAMIS - MITIGATION

Preuss, Jane, 1991, Urban planning for tsunami hazards--Grays Harbor, Washington and Lima, Peru. *In* Brennan, A. M.; Lander, J. F., editors, 2nd UJNR Tsunami Workshop, Honolulu, Hawaii, 5-6 November 1990; Proceedings: U.S. National Geophysical Data Center Key to Geophysical Records Documentation 24, p. 203-218.

Index terms: GRAYS HARBOR /GRAYS HARBOR CO. / TSUNAMIS - MITIGATION /LAND USE PLANNING /GEOLOGIC HAZARDS - PLANNING

Preuss, Jane, 1994, Regional planning implications of tsunami risk [abstract]: *Eos* (American Geophysical Union Transactions), v. 75, no. 3, Supplement, p. 25.

Index terms: PACIFIC COAST / TSUNAMIS - MITIGATION /DISASTER PLANNING

Preuss, Jane; Hebenstreit, G. T., 1989, The tsunami threat in the Pacific Northwest under today's land use conditions. *In* Hays, W. W., editor; Huey, Linda, compiler, Proceedings of Conference XLVIII, 3rd annual workshop on "Earthquake Hazards in the Puget Sound, Portland area": U.S. Geological Survey Open-File Report 89-465, p. 114-121.

Index terms: WASHINGTON /OREGON /GRAYS HARBOR /GRAYS HARBOR CO. / TSUNAMIS - MITIGATION /EARTHQUAKE-INDUCED TSUNAMIS /GEOLOGIC HAZARDS

Preuss, Jane; Priest, G. R., 1997, Tsunami hazard mitigation and counter measures with an example from Oregon. *In* Gusiakov, V. K., editor, Tsunami mitigation and risk assessment--Report of the International Workshop, Petropavlovsk-Kamchatskiy, Russia, August 21-24, 1996: Russian Academy of Sciences, p. 43-46.

Index terms: TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - MITIGATION

Rinard, S. K., 1988, Tsunami--Preparing for a vague and rare event. *In* Magoon, O. T.; Converse, Hugh; Miner, Dallas; and others, Coastal zone '87--Proceedings of the 5th Symposium on Coastal and Ocean Management: American Society of Civil Engineers, v. 3, p. 3314-3319.

Index terms: ALASKA / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /HAZARD MITIGATION

Tsunami Hazard Mitigation Federal /State Working Group, 1996, Tsunami hazard mitigation implementation plan--A report to the Senate Appropriations Committee: Tsunami Hazard Mitigation Federal /State Working Group, 1 v.

Index terms: PACIFIC COAST / TSUNAMIS - MITIGATION /DISASTER PLANNING

U.S. Federal Emergency Management Agency, 1998, Multi-hazard identification and risk assessment--The cornerstone of the national mitigation strategy: U.S. Federal Emergency Management Agency, 369 p.

Index terms: UNITED STATES / GEOLOGIC HAZARDS /DISASTER PLANNING /EARTHQUAKES AND SEISMOLOGY - PLANNING AND POLICY /TSUNAMIS - MITIGATION /LANDSLIDES AND SLOPE STABILITY /VOLCANISM /LAHARS

U.S. Federal Emergency Management Agency, 1998, The Project Impact hazard mitigation guidebook for northwest communities--Alaska, Idaho, Oregon, Washington: U.S. Federal Emergency Management Agency, 58 p.

Index terms: WASHINGTON /OREGON /IDAHO /ALASKA / GEOLOGIC HAZARDS /MITIGATION /FLOODS /LANDSLIDES AND SLOPE STABILITY /EARTHQUAKES AND SEISMOLOGY /TSUNAMIS /WILDFIRES /WINDSTROMS /VOLCANOES /SNOW LOADS

Urban Regional Research, 1988, Planning for risk--Comprehensive planning for tsunami hazard areas: National Science Foundation, 246 p.

Index terms: GRAYS HARBOR /GRAYS HARBOR CO. / TSUNAMIS - MITIGATION /DISASTER PLANNING /GEOLOGIC HAZARDS - TSUNAMIS

NEWS MEDIA

Peterson, Curt D., 1998, Communicating about geologic hazards after the news media have lost interest--Case study of Cascadia tsunami mitigation, USA [abstract]: *Geological Society of America Abstracts with Programs*, v. 30, no. 7, p. A-106.

Index terms: CASCADIA SUBDUCTION ZONE /OREGON - PACIFIC COAST /PACIFIC COAST / TSUNAMIS - MITIGATION /NEWS MEDIA /DISASTER PLANNING

SEA WALLS, BREAKWATERS, TSUNAMI FORESTS

Fukuchi, Tatsuma; Mitsuhashi, Koji, 1983, Tsunami countermeasures in fishing villages along the Sanriku coast, Japan. *In* Iida, Kumizi; Iwasaki, Toshio, editors, Tsunamis--Their science and engineering: Terra Scientific Publishing Company [Tokyo] *Advances in Earth and Planetary Sciences*, p. 389-396.

Index terms: JAPAN - SANRIKU COAST / TSUNAMIS - MITIGATION - SEA WALLS AND BREAKWATERS

Goto, Chiaki; Shuto, Nobuo, 1983, Effects of large obstacles on tsunami inundations. *In* Iida, Kumizi; Iwasaki, Toshio, editors, Tsunamis--Their science and engineering: Terra Scientific Publishing Company [Tokyo] *Advances in Earth and Planetary Sciences*, p. 511-526.

Index terms: TSUNAMIS - RUN UP - MATH MODELS /TSUNAMIS - MITIGATION - SEA WALLS AND BREAKWATERS

Horikawa, Kiyoshi; Shuto, Nobuo, 1983, Tsunami disasters and protection measures in Japan. *In* Iida, Kumizi; Iwasaki, Toshio, editors, Tsunamis--Their science and engineering: Terra Scientific Publishing Company [Tokyo] *Advances in Earth and Planetary Sciences*, p. 9-22.

Index terms: JAPAN / TSUNAMIS - EVENTS /TSUNAMIS - MITIGATION

Iwasaki, Toshio, 1983, A hybrid simulation system developed for model tests of tsunamis in a harbor. *In* Iida, Kumizi; Iwasaki, Toshio, editors, *Tsunamis--Their science and engineering*: Terra Scientific Publishing Company [Tokyo] *Advances in Earth and Planetary Sciences*, p. 409-421.

Index terms: JAPAN - KAMAISHI BAY, RYOISHI BAY / TSUNAMIS - MITIGATION - SEA WALLS AND BREAKWATERS /TSUNAMIS - MATH MODELS

Matsumoto, Teruji; Suzuki, Yuhzo, 1983, Design and construction of Ohfunato tsunami protection breakwater. *In* Iida, Kumizi; Iwasaki, Toshio, editors, *Tsunamis--Their science and engineering*: Terra Scientific Publishing Company [Tokyo] *Advances in Earth and Planetary Sciences*, p. 397-407.

Index terms: JAPAN - OHFUNATO / TSUNAMIS - MITIGATION - SEA WALLS AND BREAKWATERS

Shuto, Nobuo, 1987, The effectiveness and limit of tsunami control forests: *Coastal Engineering in Japan*, v. 30, no. 1, p. 143-153.

Index terms: JAPAN / TSUNAMIS - MITIGATION - TSUNAMI FORESTS

Tanimoto, Katsutoshi, 1983, On the hydraulic aspects of tsunami breakwaters in Japan. *In* Iida, Kumizi; Iwasaki, Toshio, editors, *Tsunamis--Their science and engineering*: Terra Scientific Publishing Company [Tokyo] *Advances in Earth and Planetary Sciences*, p. 423-435.

Index terms: JAPAN / TSUNAMIS - MITIGATION - SEA WALLS AND BREAKWATERS

SOCIAL ASPECTS

Cox, D. C., 1984, Importance of local contemporary reports of effects of historical tsunamis in tsunami risk analysis: *Science of Tsunami Hazards*, v. 2, no. 2, p. 67-70.

Index terms: HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - SOCIAL ASPECTS /HAZARD MITIGATION /HISTORY AND ARCHAEOLOGY

Hebenstreit, G. T.; Preuss, Jane, 1988, Loss estimation methodology--Projecting the risk from a tsunami generated by a Juan de Fuca plate earthquake. *In* Jacobson, M. L., compiler, *National Earthquake Hazards Reduction Program, summaries of technical reports Volume XXVII: U.S. Geological Survey Open-File Report 88-673*, p. 467-469.

Index terms: PACIFIC COAST / TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - TSUNAMIS /GEOLOGIC HAZARDS - SOCIAL ASPECTS

Morgan, Joseph, 1984, A tsunami avoidable susceptibility index: *Science of Tsunami Hazards*, v. 2, no. 1, p. 3-12.

Index terms: TSUNAMIS - MITIGATION /TSUNAMIS -

SOCIAL ASPECTS /TSUNAMIS - PLANNING AND POLICY /GEOLOGIC HAZARDS - RANKING SYSTEMS

Pararas-Carayannis, George, 1983, The tsunami impact on society. *In* Iida, Kumizi; Iwasaki, Toshio, editors, *Tsunamis--Their science and engineering*: Terra Scientific Publishing Company [Tokyo] *Advances in Earth and Planetary Sciences*, p. 3-8.

Index terms: TSUNAMIS - SOCIAL ASPECTS /TSUNAMIS - MITIGATION

Ronan, K. R.; Johnston, D. M., 1997, Children's risk perceptions and preparedness--A hazards education survey: Auckland City Council; Auckland Regional Council, 1 v.

Index terms: NEW ZEALAND - AUCKLAND / VOLCANIC HAZARDS - SOCIAL ASPECTS /GEOLOGIC HAZARDS - SOCIAL ASPECTS /TSUNAMIS - MITIGATION /EARTHQUAKES AND SEISMOLOGY /LANDSLIDES AND SLOPE STABILITY

Walker, D. A., 1996, Human factors compounding the destructiveness of future tsunamis: *Science of Tsunami Hazards*, v. 14, no. 2, p. 79-83.

Index terms: HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - SOCIAL ASPECTS /GEOLOGIC HAZARDS - SOCIAL ASPECTS /HAZARD MITIGATION /TSUNAMIS - PLANNING AND POLICY

WARNING SYSTEMS

Farreras, S. F.; Sanchez, A. J., 1991, The tsunami threat on the Mexican west coast--A historical analysis and recommendations for hazard mitigation. *In* Bernard, E. N., editor, *Tsunami hazard--A practical guide to tsunami hazard reduction*: Kluwer Academic Publishers, p. 301-316. (reprinted from *Natural Hazards*, v. 4, no. 2-3.)

Index terms: MEXICO - PACIFIC COAST / TSUNAMIS - MITIGATION /TSUNAMIS - WARNING SYSTEMS

Ganz, Steven; Traynor, Theresa, compilers, 1998, *Tsunami hazard mitigation symposium--Proceedings volume*: Western States Seismic Policy Council, 78 p.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /CASCADIA SUBDUCTION ZONE / TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS /TSUNAMIS - MITIGATION

Oppenheimer, D. H., 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Consolidated reporting of earthquakes and tsunamis. *In* Ganz, Steven; Traynor, Theresa, compilers, *Tsunami hazard mitigation symposium--Proceedings volume*: Western States Seismic Policy Council, p. 65-67.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS

STATES

ALASKA

Bernard, E. N., 1998, National Tsunami Hazard Mitigation Program [abstract]: *Eos* (American Geophysical Union Transactions), v. 79, no. 45, Supplement, p. F52.

Index terms: WASHINGTON /ALASKA /OREGON /HAWAII /CALIFORNIA / TSUNAMIS - MITIGATION /GEOLOGIC RESEARCH

Bernard, E. N., 1998, Program aims to reduce impact of tsunamis on Pacific states: *Eos* (American Geophysical Union Transactions), v. 79, no. 22, p. 258, 262-263.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /PACIFIC COAST /CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Bernard, E. N., 1998, Session--Opening session; Topic--The National Tsunami Hazard Mitigation Program. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 5-8.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Boyce, J. A., 1985, Tsunami hazard mitigation--The Alaskan experience since 1964: University of Washington Master of Arts thesis, 109 p.

Index terms: ALASKA / TSUNAMIS - MITIGATION /DISASTER PLANNING /GEOLOGIC HAZARDS - PLANNING

Carte, G. W., 1981, Tsunami hazard and community preparedness in Alaska: U.S. National Oceanic and Atmospheric Administration Technical Memorandum NWS AR-29, 20 p.

Index terms: ALASKA / TSUNAMIS - MITIGATION /DISASTER PLANNING

Carte, G. W., 1984, A tsunami preparedness assessment for Alaska: *Science of Tsunami Hazards*, v. 2, no. 2, p. 119-124.

Index terms: ALASKA / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /HAZARD MITIGATION

Ganz, Steven; Traynor, Theresa, compilers, 1998, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, 78 p.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /CASCADIA SUBDUCTION ZONE / TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS /TSUNAMIS - MITIGATION

Hegemeyer, Richard, 1998, Session--National Tsunami Hazard Mitigation Program; Topic--Tsunami hazard mitigation. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 27-33.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Oppenheimer, D. H., 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Consolidated reporting of earthquakes and tsunamis. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 65-67.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS

Rinard, S. K., 1988, Tsunami--Preparing for a vague and rare event. *In* Magoon, O. T.; Converse, Hugh; Miner, Dallas, and others, Coastal zone '87--Proceedings of the 5th Symposium on Coastal and Ocean Management: American Society of Civil Engineers, v. 3, p. 3314-3319.

Index terms: ALASKA / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /HAZARD MITIGATION

Sokolowski, T. J.; Fuller, G. W.; Blackford, M. E.; Jorgensen, W. J., 1983, The Alaska Tsunami Warning Center's automatic earthquake processing system. *In* Bernard, E. N., editor, Proceedings--Tsunami Symposium: U.S. National Oceanic and Atmospheric Administration, p. 131-147.

Index terms: ALASKA /BRITISH COLUMBIA /OREGON /WASHINGTON /CALIFORNIA / TSUNAMIS - MITIGATION /TSUNAMIS - PREDICTION /GEOLOGIC HAZARDS - TSUNAMIS /EARTHQUAKES AND SEISMOLOGY

U.S. Federal Emergency Management Agency, 1998, The Project Impact hazard mitigation guidebook for northwest communities--Alaska, Idaho, Oregon, Washington: U.S. Federal Emergency Management Agency, 58 p.

Index terms: WASHINGTON /OREGON /IDAHO /ALASKA /GEOLOGIC HAZARDS /MITIGATION /FLOODS /LANDSLIDES AND SLOPE STABILITY /EARTHQUAKES AND SEISMOLOGY /TSUNAMIS /WILDFIRES /WINDSTROMS /VOLCANOES /SNOW LOADS

CALIFORNIA

Bernard, E. N., 1998, National Tsunami Hazard Mitigation Program [abstract]: *Eos* (American Geophysical Union Transactions), v. 79, no. 45, Supplement, p. F52.

Index terms: WASHINGTON /ALASKA /OREGON /HAWAII /CALIFORNIA / TSUNAMIS - MITIGATION /GEOLOGIC RESEARCH

Bernard, E. N., 1998, Program aims to reduce impact of tsunamis on Pacific states: *Eos* (American Geophysical Union Transactions), v. 79, no. 22, p. 258, 262-263.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /PACIFIC COAST /CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Bernard, E. N., 1998, Session--Opening session; Topic--The National Tsunami Hazard Mitigation Program. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 5-8.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

California Governor's Office of Emergency Services, 1997, Findings and recommendations for mitigating the risks of tsunamis in California: California Governor's Office of Emergency Services, 30 p.

Index terms: CALIFORNIA /PACIFIC COAST / TSUNAMIS - MITIGATION /DISASTER PLANNING - MITIGATION

Dengler, L. A., 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Tsunami mitigation efforts on California's North Coast. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 39-43.

Index terms: CALIFORNIA - PACIFIC COAST / TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - MITIGATION

Ganz, Steven; Traynor, Theresa, compilers, 1998, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, 78 p.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /CASCADIA SUBDUCTION ZONE / TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS /TSUNAMIS - MITIGATION

Hegemeyer, Richard, 1998, Session--National Tsunami Hazard Mitigation Program; Topic--Tsunami hazard mitigation. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 27-33.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Oppenheimer, D. H., 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Consolidated reporting of earthquakes and tsunamis. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 65-67.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS

Sokolowski, T. J.; Fuller, G. W.; Blackford, M. E.; Jorgensen, W. J., 1983, The Alaska Tsunami Warning Center's automatic earthquake processing system. *In* Bernard, E. N., editor, Proceedings--Tsunami Symposium: U.S. National Oceanic and Atmospheric Administration, p. 131-147.

Index terms: ALASKA /BRITISH COLUMBIA /OREGON /WASHINGTON /CALIFORNIA / TSUNAMIS - MITIGATION /TSUNAMIS - PREDICTION /GEOLOGIC HAZARDS - TSUNAMIS /EARTHQUAKES AND SEISMOLOGY

HAWAII

Bernard, E. N., 1998, National Tsunami Hazard Mitigation Program [abstract]: Eos (American Geophysical Union

Transactions), v. 79, no. 45, Supplement, p. F52.

Index terms: WASHINGTON /ALASKA /OREGON /HAWAII /CALIFORNIA / TSUNAMIS - MITIGATION /GEOLOGIC RESEARCH

Bernard, E. N., 1998, Program aims to reduce impact of tsunamis on Pacific states: Eos (American Geophysical Union Transactions), v. 79, no. 22, p. 258, 262-263.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /PACIFIC COAST /CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Bernard, E. N., 1998, Session--Opening session; Topic--The National Tsunami Hazard Mitigation Program. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 5-8.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Cox, D. C., 1984, Importance of local contemporary reports of effects of historical tsunamis in tsunami risk analysis: Science of Tsunami Hazards, v. 2, no. 2, p. 67-70.

Index terms: HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - SOCIAL ASPECTS /HAZARD MITIGATION /HISTORY AND ARCHAEOLOGY

Ganz, Steven; Traynor, Theresa, compilers, 1998, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, 78 p.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /CASCADIA SUBDUCTION ZONE / TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS /TSUNAMIS - MITIGATION

Hegemeyer, Richard, 1998, Session--National Tsunami Hazard Mitigation Program; Topic--Tsunami hazard mitigation. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 27-33.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Oppenheimer, D. H., 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Consolidated reporting of earthquakes and tsunamis. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 65-67.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS

Walker, D. A., 1996, Human factors compounding the destructiveness of future tsunamis: Science of Tsunami Hazards, v. 14, no. 2, p. 79-83.

Index terms: HAWAII / TSUNAMIS - MITIGATION /DISASTER PLANNING - SOCIAL ASPECTS

OREGON

Ansevin, Andrea; Good, J. W., 1993, A strategy for improving coastal natural hazards management--Oregon's policy working group approach. *In* Magoon, O. T.; Wilson, W. S.; Converse, Hugh; Tobin, L. T., editors, Coastal zone '93; Proceedings of the 8th symposium on coastal and ocean management: American Society of Civil Engineers, v. 3, p. 2829-2841.

Index terms: OREGON - PACIFIC COAST /CASCADIA SUBDUCTION ZONE / EARTHQUAKES AND SEISMOLOGY /TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - PLANNING

Baptista, A. M.; Myers, E. P., III; Qi, Ming; Priest, G. R., 1996, Support modelling for tsunami hazard mapping in Oregon [abstract]: PanPacific Hazard '96, Abstracts [downloaded Sept. 28, 1996 from <http://hoshi.cic.sfu.ca/~anderson/hazards96/>], 1 p.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARDS

Bernard, E. N., 1998, National Tsunami Hazard Mitigation Program [abstract]: Eos (American Geophysical Union Transactions), v. 79, no. 45, Supplement, p. F52.

Index terms: WASHINGTON /ALASKA /OREGON /HAWAII /CALIFORNIA / TSUNAMIS - MITIGATION /GEOLOGIC RESEARCH

Bernard, E. N., 1998, Program aims to reduce impact of tsunamis on Pacific states: Eos (American Geophysical Union Transactions), v. 79, no. 22, p. 258, 262-263.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /PACIFIC COAST /CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Bernard, E. N., 1998, Session--Opening session; Topic--The National Tsunami Hazard Mitigation Program. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 5-8.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Dariento, M. E., 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Efforts in mitigation, public awareness, and emergency response. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 37.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - MITIGATION

Ganz, Steven; Traynor, Theresa, compilers, 1998, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, 78 p.

Index terms: WASHINGTON /OREGON /ALASKA /CALIFORNIA /HAWAII /CASCADIA SUBDUCTION ZONE / TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS /TSUNAMIS - MITIGATION

Good, J. W., 1995, Tsunami education planning workshop findings and recommendations: U.S. National Oceanic and Atmospheric Administration Pacific Marine Environmental Laboratory NOAA Technical Memorandum ERL PMEL-106, 41 p.

Index terms: CASCADIA SUBDUCTION ZONE /PACIFIC COAST /OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - EDUCATION /GEOLOGIC HAZARDS /EARTHQUAKES AND SEISMOLOGY - PLANNING AND POLICY

Hegemeyer, Richard, 1998, Session--National Tsunami Hazard Mitigation Program; Topic--Tsunami hazard mitigation. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 27-33.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

Hull, D. A.; Karel, Angeline, 1997, Strategy for tsunami mitigation and public awareness: Oregon Department of Geology and Mineral Industries, 1 v.

Index terms: OREGON /PACIFIC COAST / TSUNAMIS - MITIGATION /DISASTER PLANNING - MITIGATION

Hull, D. A.; Karel, Angeline, 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Oregon strategy for mitigation and public awareness. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 45-63.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - MITIGATION

Oppenheimer, D. H., 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Consolidated reporting of earthquakes and tsunamis. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 65-67.

Index terms: WASHINGTON /OREGON /CALIFORNIA /ALASKA /HAWAII / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /TSUNAMIS - WARNING SYSTEMS

Peterson, Curt D., 1998, Communicating about geologic hazards after the news media have lost interest--Case study of Cascadia tsunami mitigation, USA [abstract]: Geological Society of America Abstracts with Programs, v. 30, no. 7, p. A-106.

Index terms: CASCADIA SUBDUCTION ZONE /OREGON - PACIFIC COAST /PACIFIC COAST / TSUNAMIS - MITIGATION /NEWS MEDIA /DISASTER PLANNING

Preuss, Jane; Hebenstreit, G. T., 1989, The tsunami threat in the Pacific Northwest under today's land use conditions. *In* Hays, W. W., editor; Huey, Linda, compiler, Proceedings of Conference XLVIII, 3rd annual workshop on "Earthquake Hazards in the Puget Sound, Portland area": U.S. Geological Survey Open-File Report 89-465, p. 114-121.

Index terms: WASHINGTON /OREGON /GRAYS HARBOR /GRAYS HARBOR CO. / TSUNAMIS - MITIGATION /EARTHQUAKE-INDUCED TSUNAMIS /GEOLOGIC HAZARDS

Priest, G. R., 1995, Tsunami hazard map of the Astoria quadrangle, Clatsop County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-10, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Bandon quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-51, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Bill Peak quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-52, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Brookings quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-65, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Bullards quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-49, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Cape Arago quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-46, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Cape Blanco quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-55, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Cape Sebastian quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-61, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Carpenterville quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-64, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Cathlamet Bay quadrangle, Clatsop County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-11, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Charleston quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-47, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Coos Bay quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-48, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Depoe Bay quadrangle, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-27, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Devils Lake quadrangle, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-26, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Empire quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-44, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Floras Lake quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-53, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Florence quadrangle, Lane County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-37, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Gearhart quadrangle, Clatsop County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-13, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Gold Beach quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-59, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Goose Pasture quadrangle, Lane County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-36, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Heceta Head quadrangle, Lane County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-34, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Knappa quadrangle, Clatsop County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-12, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Lakeside quadrangle, Coos and Douglas Counties, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-43, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Langlois quadrangle, Curry and Coos Counties, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-54, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Lincoln City quadrangle, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-25, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Mack Point quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-63, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Mercer Lake quadrangle, Lane County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-35, 1 sheet, scale

1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Mount Emily quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-66, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Nehalem quadrangle, Tillamook County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-17, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Neskowin quadrangle, Tillamook and Lincoln Counties, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-24, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Newport North quadrangle, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-28, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Newport South quadrangle, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-29, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the North Bend quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-45, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Olney quadrangle, Clatsop County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-14, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Ophir quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-58, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Port Orford quadrangle, Curry County, Oregon: Oregon Department of

Geology and Mineral Industries Open File Report O-95-57, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

priest, G. R., 1995, Tsunami hazard map of the Reedsport quadrangle, Douglas County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-32, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Riverton quadrangle, Coos County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-50, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Signal Buttes quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-60, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Sixes quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-56, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Sundown Mountain quadrangle, Curry County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-62, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Tahkenitch Creek quadrangle, Douglas and Lane Counties, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-38, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Tidewater quadrangle, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-32, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Toledo South quadrangle, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-30, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Waldport

quadrangle, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-31, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Warrenton quadrangle, Clatsop County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-09, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Winchester Bay quadrangle, Douglas County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-31, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1995, Tsunami hazard map of the Yachats quadrangle, Lincoln and Lane County, Oregon: Oregon Department of Geology and Mineral Industries Open File Report O-95-33, 1 sheet, scale 1:24,000.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R., 1997, Update on tsunamic mapping progress in Oregon: Oregon Geology, v. 59, no. 4, p. 97.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R.; Baptista, A. M.; Qi, Ming; Myers, E. P., III; Peterson, C. D.; Darienzo, M. E.; Wang, Yumei, 1996, Tsunami hazard mapping on the Oregon coast--Techniques used by the Oregon Department of Geology and Mineral Industries [abstract]: Geological Society of America Abstracts with Programs, v. 28, no. 5, p. 102.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /MAPS - HAZARD

Priest, G. R.; Hull, D. A.; Vogt, B. F.; Karel, Angeline; Olmstead, D. L., 1996, Tsunami risk reduction--The Oregon strategy: Science of Tsunami Hazards, v. 14, no. 2, p. 101-106.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY /HAZARD MITIGATION

Priest, G. R.; Myers, E. P., III; Baptista, A. M.; Fleuck, Paul; Wang, Kelin; Kamphaus, R. A.; Peterson, C. D., 1997, Cascadia subduction zone tsunamis--Hazard mapping at Yaquina Bay, Oregon: Oregon Department of Geology and Mineral Industries Open-File Report O-97-34, 144 p.

Index terms: OREGON - PACIFIC COAST /CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION /MAPS - HAZARDS

Priest, G. R.; Myers, E. P., III; Baptista, A. M.; Kamphaus, R. A.; Fiedorowicz, B. K.; Peterson, C. D.; Horning, T. S., 1998, Tsunami hazard map of the Seaside-Gearhart area, Clatsop County, Oregon: Oregon Department of Geology and Mineral Industries Interpretive Map Series IMS-3, 1 sheet, scale 1:12,000.

Index terms: OREGON - CLATSOP CO. / TSUNAMIS - MITIGATION / MAPS - HAZARD

Priest, G. R.; Myers, E. P., III; Baptista, A. M.; Kamphaus, R. A.; Peterson, C. D.; Darienzo, M. E., 1997, Tsunami hazard map of the Yaquina Bay area, Lincoln County, Oregon: Oregon Department of Geology and Mineral Industries Interpretive Map Series IMS-2, 1 sheet, scale 1:12,000.

Index terms: OREGON - LINCOLN CO. - YAQUINA BAY / PACIFIC COAST / TSUNAMIS - MITIGATION / TSUNAMIS / MAPS - HAZARD

Sokolowski, T. J.; Fuller, G. W.; Blackford, M. E.; Jorgensen, W. J., 1983, The Alaska Tsunami Warning Center's automatic earthquake processing system. *In* Bernard, E. N., editor, Proceedings--Tsunami Symposium: U.S. National Oceanic and Atmospheric Administration, p. 131-147.

Index terms: ALASKA / BRITISH COLUMBIA / OREGON / WASHINGTON / CALIFORNIA / TSUNAMIS - MITIGATION / TSUNAMIS - PREDICTION / GEOLOGIC HAZARDS - TSUNAMIS / EARTHQUAKES AND SEISMOLOGY

U.S. Federal Emergency Management Agency, 1998, The Project Impact hazard mitigation guidebook for northwest communities--Alaska, Idaho, Oregon, Washington: U.S. Federal Emergency Management Agency, 58 p.

Index terms: WASHINGTON / OREGON / IDAHO / ALASKA / GEOLOGIC HAZARDS / MITIGATION / FLOODS / LANDSLIDES AND SLOPE STABILITY / EARTHQUAKES AND SEISMOLOGY / TSUNAMIS / WILDFIRES / WINDSTROMS / VOLCANOES / SNOW LOADS

Visher, Paul, 1995, Tsunami disaster planning in Clatsop County, Oregon [abstract]. *In* University of Washington Quaternary Research Center, Tsunami deposits--Geologic warnings of future inundation: University of Washington Quaternary Research Center, p. 36-37.

Index terms: OREGON - PACIFIC COAST / TSUNAMIS - MITIGATION / DISASTER PLANNING

WASHINGTON

Bernard, E. N., 1998, National Tsunami Hazard Mitigation Program [abstract]: *Eos* (American Geophysical Union Transactions), v. 79, no. 45, Supplement, p. F52.

Index terms: WASHINGTON / ALASKA / OREGON / HAWAII / CALIFORNIA / TSUNAMIS - MITIGATION / GEOLOGIC RESEARCH

Bernard, E. N., 1998, Program aims to reduce impact of tsunamis on Pacific states: *Eos* (American Geophysical Union Transactions), v. 79, no. 22, p. 258, 262-263.

Index terms: WASHINGTON / OREGON / ALASKA / CALIFORNIA / HAWAII / PACIFIC COAST / CASCADIA SUBDUCTION ZONE / TSUNAMIS - MITIGATION / TSUNAMIS - PLANNING AND POLICY

Bernard, E. N., 1998, Session--Opening session; Topic--The National Tsunami Hazard Mitigation Program. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 5-8.

Index terms: WASHINGTON / OREGON / ALASKA / CALIFORNIA / HAWAII / TSUNAMIS - MITIGATION / TSUNAMIS - PLANNING AND POLICY

Curtis, G. D.; Adams, W. M., 1985, Needs and developments in tsunami monitoring: *Science of Tsunami Hazards*, v. 3, no. 1, p. 34-40.

Index terms: TSUNAMIS - MITIGATION / TSUNAMIS - PLANNING AND POLICY / WARNING SYSTEMS / HAZARD MITIGATION

Ganz, Steven; Traynor, Theresa, compilers, 1998, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, 78 p.

Index terms: WASHINGTON / OREGON / ALASKA / CALIFORNIA / HAWAII / CASCADIA SUBDUCTION ZONE / TSUNAMIS - PLANNING AND POLICY / TSUNAMIS - WARNING SYSTEMS / TSUNAMIS - MITIGATION

Hebenstreit, G. T., 1987, Tsunami threat analysis for the Pacific Northwest. *In* Jacobson, M. L.; Rodriguez, T. R., compilers, National Earthquake Hazards Reduction Program, summaries of technical reports Volume XXIV: U.S. Geological Survey Open-File Report 87-374, p. 605-608.

Index terms: WESTERN WASHINGTON / JUAN DE FUCA PLATE / GEOLOGIC HAZARDS / TSUNAMIS - MITIGATION

Hebenstreit, G. T.; Preuss, Jane, 1989, Projecting risks from a tsunami generated in the Juan de Fuca region. *In* Jacobson, M. L., compiler, National Earthquake Hazards Reduction Program, summaries of technical reports Volume XXVIII: U.S. Geological Survey Open-File Report 89-453, p. 461.

Index terms: GRAYS HARBOR / GRAYS HARBOR CO. / TSUNAMIS - MITIGATION / GEOLOGIC HAZARDS - TSUNAMIS

Hegemeyer, Richard, 1998, Session--National Tsunami Hazard Mitigation Program; Topic--Tsunami hazard mitigation. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 27-33.

Index terms: WASHINGTON / OREGON / CALIFORNIA / ALASKA / HAWAII / TSUNAMIS - MITIGATION / TSUNAMIS - PLANNING AND POLICY

Oppenheimer, D. H., 1998, Session--Efforts in mitigation, public awareness and emergency response; Topic--Consolidated reporting of earthquakes and tsunamis. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 65-67.

Index terms: WASHINGTON / OREGON / CALIFORNIA / ALASKA / HAWAII / TSUNAMIS - MITIGATION / TSUNAMIS - PLANNING AND POLICY / TSUNAMIS - WARNING SYSTEMS

Preuss, Jane, 1986, Tsunami and flood hazard preparedness and mitigation program for Aberdeen. *In* Hays, W. W.; Gori, P. L., editors, Proceedings of conference XXXIII, "Earthquake hazards in the Puget Sound, Washington area": U.S. Geological Survey Open-File Report 86-253, p. 139-156.

Index terms: ABERDEEN, WASH. / GRAYS HARBOR CO. /

TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS
/FLOODS

Preuss, Jane, 1987, Coastal high hazard mitigation--Comprehensive planning for areas vulnerable to tsunamis. *In* Association of State Floodplain Managers, Realistic approaches to better floodplain management; 11th annual conference, Proceedings: University of Colorado Natural Hazards Information Center Special Publication 18, p. 317-322.

Index terms: GRAYS HARBOR CO. /ABERDEEN, WASH. /TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS

Preuss, Jane, 1991, Urban planning for tsunami hazards--Grays Harbor, Washington and Lima, Peru. *In* Brennan, A. M.; Lander, J. F., editors, 2nd UJNR Tsunami Workshop, Honolulu, Hawaii, 5-6 November 1990; Proceedings: U.S. National Geophysical Data Center Key to Geophysical Records Documentation 24, p. 203-218.

Index terms: GRAYS HARBOR /GRAYS HARBOR CO. /TSUNAMIS - MITIGATION /LAND USE PLANNING /GEOLOGIC HAZARDS - PLANNING

Preuss, Jane; Hebenstreit, G. T., 1989, The tsunami threat in the Pacific Northwest under today's land use conditions. *In* Hays, W. W., editor; Huey, Linda, compiler, Proceedings of Conference XLVIII, 3rd annual workshop on "Earthquake Hazards in the Puget Sound, Portland area": U.S. Geological Survey Open-File Report 89-465, p. 114-121.

Index terms: WASHINGTON /OREGON /GRAYS HARBOR /GRAYS HARBOR CO. /TSUNAMIS - MITIGATION /EARTHQUAKE-INDUCED TSUNAMIS /GEOLOGIC HAZARDS

Preuss, Jane; Hebenstreit, G. T., 1990, Integrated hazard assessment for a coastal community--Grays Harbor, Washington: Science Applications International Corporation [McLean, Va.], 36 p.

Index terms: GRAYS HARBOR CO. /GRAYS HARBOR, WASH. /TSUNAMIS - MITIGATION /GEOLOGIC HAZARDS - TSUNAMIS /DISASTER PLANNING

Preuss, Jane; Hebenstreit, G. T., 1991, Integrated hazard assessment for a coastal community--Grays Harbor: U.S.

Geological Survey Open-File Report 91-441-M, 36 p.

Index terms: GRAYS HARBOR, WASH. /GRAYS HARBOR CO. /EARTHQUAKES AND SEISMOLOGY - PLANNING AND POLICY /TSUNAMIS - MITIGATION /DISASTER PLANNING

Sokolowski, T. J.; Fuller, G. W.; Blackford, M. E.; Jorgensen, W. J., 1983, The Alaska Tsunami Warning Center's automatic earthquake processing system. *In* Bernard, E. N., editor, Proceedings--Tsunami Symposium: U.S. National Oceanic and Atmospheric Administration, p. 131-147.

Index terms: ALASKA /BRITISH COLUMBIA /OREGON /WASHINGTON /CALIFORNIA /TSUNAMIS - MITIGATION /TSUNAMIS - PREDICTION /GEOLOGIC HAZARDS - TSUNAMIS /EARTHQUAKES AND SEISMOLOGY

U.S. Federal Emergency Management Agency, 1998, The Project Impact hazard mitigation guidebook for northwest communities--Alaska, Idaho, Oregon, Washington: U.S. Federal Emergency Management Agency, 58 p.

Index terms: WASHINGTON /OREGON /IDAHO /ALASKA /GEOLOGIC HAZARDS /MITIGATION /FLOODS /LANDSLIDES AND SLOPE STABILITY /EARTHQUAKES AND SEISMOLOGY /TSUNAMIS /WILDFIRES /WINDSTROMS /VOLCANOES /SNOW LOADS

Urban Regional Research, 1988, Planning for risk--Comprehensive planning for tsunami hazard areas: National Science Foundation, 246 p.

Index terms: GRAYS HARBOR /GRAYS HARBOR CO. /TSUNAMIS - MITIGATION /DISASTER PLANNING /GEOLOGIC HAZARDS - TSUNAMIS

Walsh, T. J., 1998, Session--National Tsunami Hazard Mitigation Program; Topic--Tsunami hazards in Washington. *In* Ganz, Steven; Traynor, Theresa, compilers, Tsunami hazard mitigation symposium--Proceedings volume: Western States Seismic Policy Council, p. 35.

Index terms: WASHINGTON - PACIFIC COAST /TSUNAMIS - MITIGATION /TSUNAMIS - PLANNING AND POLICY

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