

TSUNAMI INFORMATION SOURCES

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INTRODUCTION

I have expanded substantially my list of information sources on: tsunami generation (sources, impulsive mechanisms), propagation, effects of nearshore bathymetry, and wave run-up on shore - including physical (hydraulic) modeling and numerical modeling. This expanded list includes the subjects of field investigations of tsunamis soon after an event; damage effects in harbors on boats, ships, and facilities; tsunami wave-induced forces; damage by tsunami waves to structures on shore; scour/erosion; hazard mitigation; land use planning; zoning; siting, design, construction and maintenance of structures and infrastructure; public awareness and education; distant and local sources; tsunami warning and evacuation programs; tsunami probability and risk criteria. A few references are on "sedimentary signatures" useful in the study of historic and prehistoric tsunamis (paleo-tsunamis). In addition to references specifically on tsunamis, there are references on long water wave and solitary wave theory; wave refraction, diffraction, and reflection; shelf and basin free and forced oscillations (bay and harbor response; seiches); edge waves; Mach-reflection of long water waves ("stem waves"); wave run-up on shore; energy dissipation. All are important in understanding tsunamis, and in hazard mitigation. References are given on subaerial and submarine landslide (and rockfall) generated waves in reservoirs, fjords, bays, and ocean; volcano explosive eruptions/collapse; underwater and surface explosions; asteroid impact. This report is in two parts: 1) Bibliographies, books and pamphlets, catalogs, collections, journals and newsletters, maps, organizations, proceedings, videos and photos; 2) Articles, papers, reports listed alphabetically by author.

Many papers on the Indian Ocean (Sumatra) tsunami of 26 December 2004, were given at the 22nd IUGG International Tsunami Symposium, Chania, Crete, 27-29 June 2005, but had not been published at the date of this report. For the program, see <http://www.gein.noa.gr/English/tsunamis.htm>

This list of tsunami information sources (115 pp, about 3,300 entries) is also available on a diskette, at the Water Resources Center Archives, 410 O'Brien Hall, University of California, Berkeley, CA, 94720-1718. Most of the publications are available in the Water Resources Center Archives or the Earth Sciences Library, University of California, Berkeley, CA.

I wish to acknowledge my appreciation of the great help of the staff of the Water Resources Center Archives in finding some difficult to obtain publications; in particular Paul S. Atwood for his help for those on websites and other computer sources. I want to thank John M. Wiegel for his continuous help in searching for sources on websites via computer search-engines.

**1) BIBLIOGRAPHIES; BOOKS AND PAMPHLETS;
CATALOGS; COLLECTIONS; JOURNALS AND
NEWSLETTERS; MAPS; ORGANIZATIONS;
PROCEEDINGS, SYMPOSIA, AND WORKSHOPS;
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Two Decades of Global Tsunamis: 1982-2002, by James F. Lander, Lowell S. Whiteside, and Patricia A. Lockridge, Science of Tsunami Hazards, Vol. 21, No. 1, 2003, pp 3-88

The Unified European Catalogue of Tsunamis: A GITEC Experience, by S. Tinti, M.A. Baptista, C.B. Harbitz, and A. Maramai, Proc. Int. Conf. Tsunamis: Paris, France, 26-28 May 1998, 1999, pp 84-99

United States Tsunamis (Including United States Possessions), 1690-1988, by James F. Lander and Patricia A. Lockridge, NOAA, National Geophys. Data Center, Boulder, CO, Publication No. 41-2, Aug. 1989, 265 pp text, 66 illustrations, and 11 tables

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Collections

Indian Ocean (Sumatra) Tsunami of 26 December 2004: Newspaper Articles (175), 27 December 2004 - 11 February 2005; collected by R.L. Wiegel, in Water Resources Center Archives, University of California, Berkeley, CA 94720-1718

Journals and Newsletters

Science of Tsunami Hazards, Journal of the Tsunami Society, Honolulu, Hawaii; began in 1983

TsuInfo Alert Newsletter, U.S. National Tsunami Hazards Mitigation Program, bi-monthly newsletter, Back issues are online at

<http://www.wa.gov/dnr/htdocs/ger/tsuinfo/index.htm>
1

Tsunami Newsletter, International Tsunami Information Center (ITIC)/ Intergovernmental Oceanographic Commission (IOC) - UNESCO, Honolulu, Hawaii; began in 1968

Maps

Contribution to the IDNDR: Tsunami Flooding Maps, by E.N. Bernard, In *Tsunami Observations Modelling and Hazard Reduction*, Birmingham, July 1999, XXII General Assembly: Abstracts, 1999, p. B.126
<http://www.iugg.org/assemblies/1999birmingham/1999abstracts.pdf>

Crescent City, California: Inundation from March 1964 Tsunami, U.S. Army Corps of Engineers, San Francisco District, date of map probably August 1965, 27"x40" (in UCB Water Resources Center Archives); greatly reduced size, Fig. 7 of Magoon (1965, p. 66)

Inundation Maps for the State of California, by Richard K. Eisner, Jose C. Borrero, and Costas E. Synolakis, In *Proc. U.S. National Tsunami Hazard Mitigation Program Review and International Tsunami Symposium* (sic, 20th), Seattle, Washington, 7-10 August 2001, NTHMP Review Session, Paper R-4, 2001, pp 67-81 (3 sample maps; San Francisco Ocean Beach, Santa Barbara, Marina del Rey). On a CD, NOAA, PMEL, Seattle, WA, and on website
<http://www.pmel.noaa.gov/its2001/>

Map of the Hilo Area, Hawaii: Inundation Area, Chilean Tsunami of 23 May 1960, scale 1 inch = 400ft., in envelope at back of report: *Analysis of Structural Damage from the 1960 Tsunami at Hilo, Hawaii*, by Hudson Matlock, Lymon D. Reese, and Robert B. Matlock, Structural Mechanics Lab., Univ. Texas, Austin, TX, March 1962, 95 pp

Map Showing Areas of Potential Inundation by Tsunamis in the San Francisco Bay Region, by John R. Ritter and William R. Dupre, U.S. Geological Survey (USGS) and U.S. Dept. Housing and Urban Development, Misc. Field Studies Map MF-480, 1972, 2 sheets

Pacific Tsunami Warning System, Showing Locations of Wave Reporting and Seismic Stations, pp 298-299, of General Outline of the ITSU Master Plan for the Tsunami Warning System in the Pacific, by G.C. Dohler, in *Natural Hazards*, Vol. 1, No. 3, 1988, pp 295-302

Potential Tsunami Flooding: Crescent City, CA, and Humboldt Bay, CA, two large maps produced in Nov. 1993. In envelope at end of the report: *Tsunami Inundation Model Study of Eureka and Crescent City, California*, by E. Bernard, C. Mader, G. Curtis, and K. Satake, NOAA Tech. Memo. ERL PMEL-103, Nov. 1994, 80 pp and two large maps

Run-ups in the Hawaiian Islands, by Nancy Hulbirt (illustrations) and Daniel A. Walker (data compilation), *Tsunami Newsletter*, Vol. 35, No. 3, June 2003, pp 7-11

Summary Map of Tsunami Source Area, by J. Kellehar, presented at the workshop, and reproduced in comments by H. Kanamori
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Workshop, May 1979, eds. L.S. Hwang and Y.K. Lee, Tetra Tech, Inc., Pasadena, CA, 1979, pp 10-12

Tsunami Hazard Map of the Southern Washington Coast; Modeled Tsunami Inundation from a Cascadia Subduction Zone Earthquake, by T.J. Walsh, C.G. Caruthers, A.C. Heinritz, E.P. Myers, III, A.M. Baptista, G.B. Erdakos, and R.A. Kamphaus, Washington Division of Geology and Earth Resources Geologic Map GM-49, 2000, scale 1:100,000

Tsunami Hazard Mapping of Alaska Coastal Communities, by E.N. Suleimani, R. A. Combellick, R.A. Hanson, and G.A. Carver, *Alaska GeoSurvey News*, Vol. 6, No. 2, June 2002, pp 1-5
<http://www.dggs.dnr.state.ak.us>

Tsunami Hazard Maps of the Kodiak Area, Alaska, by E.N. Suleimani, R.A. Hansen, R.A. Combellick, G.A. Carver, R.A. Kamphaus, J.C. Newman, and A. J. Venturato, Alaska Division of Geological & Geophysical Surveys, Fairbanks, AK, RI 2002-1, 2000, 16 pp, 4 sheets, scale 1:12,500

Tsunami Maps Developed for Esmeraldas, Ecuador, by Patricia Arreaga Vargas, *Tsunami Newsletter*, Vol. 35, No. 2, April 2003, pp 1 and 8

Tsunamis in the Pacific Basin, 1900-1983, Map prepared by Patricia A. Lockridge and Ronald H. Smith, National Geophysical Data Center and World Data Center A for Solid Earth Geophysics, Office for International Development, in cooperation with Circum-Pacific Council for Energy and Mineral Resources, Map Project, 1984; scale 1:17,000,000, 1 sheet (40" x 60")

Organizations

Alaska Division of Homeland Security and Emergency Management, Fort Richardson, Alaska 99505-5750
<http://www.ak-prepared.com/>

Alaska Tsunami Warning Center (ATWC), Palmer, Alaska. Became West Coast/Alaska Tsunami Warning Center (WC/ATWC) effective 1 January 1997. See West Coast/Alaska Tsunami Warning Center (WC/ATWC)

California Governor's Office of Emergency Services (OES), California
<http://www.oes.ca.gov>

California State Seismic Safety Commission; Tsunami Safety Committee

Disaster Control Research Center, Tohoku University, Japan. Includes Tsunami Engineering Laboratory (TEL)
http://www.dcrc.tohoku.ac.jp/index_e.html

Earthquake Engineering Research Institute (EERI), Oakland, California
<http://www.eeri.org/>

Earthquake Research Institute (ERI), University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-0032, Japan
<http://www.eri.u-tokyo.ac.jp/>

Federal Emergency Management Administration (FEMA), U.S. Dept. of Homeland Security, Washington, D.C.
<http://www.fema.gov/areyouready/tsunamis.shtm>

Hawaii Institute of Geophysics & Planetology (HIGP), Univ. Hawaii, Honolulu, HI; formerly *Hawaii Institute of Geophysics*, (HIG)
<http://www.pgd.hawaii.edu>

Hawaii, State of Hawaii Civil Defense Division, Honolulu, HI
<http://www.scd.state.hi.us/>

IAPSO/IASPEI/IAVCEI Joint Tsunami Commission, established at the 12th General Assembly of IUGG in Helsinki, Finland in 1960, now jointly sponsored by IASPEI, IAPSO, and IAVCEI. As of June 2005, they have sponsored 22 Tsunami Symposia, both as part of IUGG General Assemblies and independently in alternate years
<http://www.iaspei.org/commissions/JCT.html>

ICG/ITSU, International Coordination Group for the Tsunami Warning System in the Pacific, ICG/ITSU, UNESCO

Intergovernmental Oceanographic Commission (IOC), UNESCO, Paris
<http://ioc.unesco.org/iocweb/index.php>

International Coordination Group for the Tsunami Warning System in the Pacific, ICG/ITSU, UNESCO, established in 1968 as a subsidiary body of the Intergovernmental Oceanographic Commission (IOC) of UNESCO; ITSU web site, and general information site
<http://ioc.unesco.org/itsu/>
http://www.prh.noaa.gov/itic/more_about/itsu/itsu.html

International Society of Offshore and Polar Engineers (ISOPE), P.O. Box 189, Cupertino, CA, 95015-0189; Tel. 1-650-254-1871; Email: info@isope.org

International Tsunami Information Center (ITIC), Intergovernmental Oceanographic Commission (IOC), UNESCO, (ITSU). 737 Bishop Street, Suite 2200, Honolulu, HI 96813
 ITIC E-mail: itic.tsunami@noaa.gov.
 Website: <http://www.prh.noaa.gov/itic/>
ITSU, International Co-ordination Group for the Tsunami Warning System in the Pacific

International Union of Geodesy and Geophysics, (IUGG)
<http://www.iugg.org/>

IUGG Tsunami Commission, International Union of Geodesy and Geophysics (IUGG), Paris, France

Joint Institute for Marine and Atmospheric Research (JIMAR), Univ. Hawaii, Honolulu, HI
<http://ilikai.soest.hawaii.edu/JIMAR/>

National Geophysical Data Center (NGDC), National Oceanic and Atmospheric Administration (NOAA), Boulder, CO; Home Page
<http://www.ngdc.noaa.gov/>

National Geophysical Data Center and World Data Center A for Solid Earth Geophysics, NOAA, Boulder, CO

National Geographic Data Center, Tsunami Event Database, NOAA
http://www.ngdc.noaa.gov/seg/hazard/tsevsrch_idb.shtml

National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA)

<http://www.nos.noaa.gov/>

National Ocean Survey, U.S. Reorganized, as National Ocean Service in 1984

National Tsunami Hazard Mitigation Program (NTHMP), NOAA, USGS, FEMA, NSF, Alaska, California, Hawaii, Oregon, and Washington
<http://www.pmel.noaa.gov/tsunami-hazard>

Network for Earthquake Engineering Simulation (NEES), the Tsunami Wave Basin is at Oregon State University, Corvallis, OR, website
http://wave.oregonstate.edu/Facilities/Equipment/Tsunami_Wave_Basin/

Oregon Emergency Management, State of Oregon
<http://egov.oregon.gov/OOHS/OEM/>

Pacific Disaster Center, Kihei, Maui, Hawaii
<http://www.pdc.org/>

Pacific Marine Environmental Laboratory (PMEL), NOAA, Seattle, Washington, U.S. Dept. Commerce
<http://www.pmel.noaa.gov/tsunami/>

Pacific Tsunami Museum, Hilo, Hawaii, HI 96721, 130 Kamehameha Avenue; tsunami@tsunami.org
<http://www.tsunami.org>

Pacific Tsunami Warning Center (PTWC), Ewa Beach, Oahu, Hawaii. The building is now (2005) named the Richard H. Hagemeyer Pacific Tsunami Warning Center
<http://www.prh.noaa.gov/ptwc/>

Pacific Tsunami Warning System. Also known as Tsunami Warning System in the Pacific. Co-ordination group is ITSU. For information, see website
<http://www.pmel.noaa.gov/tsunami-hazard/tsubropacific.pdf>

Red Cross Tsunami Site
<http://www.redcross.org/disaster/safety/guide/tsunami.html>

Research Center for Disaster Reduction Systems (RCDRS), Kyoto, Japan
<http://www.drs.dpri.kyoto-u.ac.jp/html>

Seismic Sea Wave Warning System (1946-1948), now Pacific Tsunami Warning System (ITSU)

Tsunami: Event Database, NOAA, Boulder, CO
http://www.ngdc.noaa.gov/seg/hazard/tsevsrch_idb.shtml

Tsunami Laboratory, Institute of Mathematics and Mathematical Geophysics, Siberian Division Russian Academy of Sciences, Novosibirsk, Russia. Email: gvg@omzg.sccc.ru
http://tsun.sccc.ru/tsun_hp.htm

Tsunami Research Center, University of Southern California, Los Angeles, CA; established in 1995
<http://www.usc.edu/dept/tsunamis/>

Tsunami Society, Honolulu, Hawaii, organized in 1982
<http://www.sthjourn.org/soc.htm>

Tsunami Warning System in the Pacific (TWSP). Also called *Pacific Tsunami Warning System (PTWS)*
<http://www.prh.noaa.gov/ptwc/>

Tsunami Wave Basin, Oregon State University, Corvallis, Oregon; part of the George E. Brown Network for Earthquake Engineering Simulation (NEES)
http://wave.oregonstate.edu/Facilities/Equipment/Tsunami_Wave_Basin/

U.S. Army Engineer Research and Development Center, (formerly Waterways Experiment Station), U.S. Army Corps of Engineers, Vicksburg, MS
<http://chl.wes.army.mil/library/publications/cetn>

U.S. Geological Survey, Earthquake Hazards Program; Tsunamis
<http://earthquake.usgs.gov/bytopic/tsunami.html>

University of Tokyo, Earthquake Research Institute (ERI), Japan; see Earthquake Research Institute, Univ. Tokyo

University of Washington, Tsunami, Seattle, WA
<http://www.geophys.washington.edu/tsunami/general/mitigation/mitigation.html>

Washington Military Department, Washington State Emergency Management Division, Olympia, Washington
<http://emd.wa.gov/>

West Coast/Alaska Tsunami Warning Center (WC/ATWC), NOAA, National Weather Service, Palmer, Alaska. It was Alaska Tsunami Warning Center (ATWC) until 1 January 1997
<http://wcatwc.arh.noaa.gov/>

Western States Seismic Policy Council, Palo Alto, CA
www.wsspc.org
www.wsspc.org/tsunami

Proceedings, Symposia, and Workshops

Since its establishment at the 12th IUGG General Assembly in Helsinki, Finland, in 1960, through 2005, the IUGG Tsunami Commission has held 22 International Tsunami Symposia as part of an IUGG General Assembly, or independently in alternate years. The 1st was in conjunction with the Tenth Pacific Science Congress, Honolulu, Hawaii, Aug.-Sept. 1961. The 2nd international tsunami symposium was a session in the XIII General Assembly of the IUGG, Univ. of Calif., Berkeley, CA, August 1963; on 29 Aug., joint session IAP0 and IASPEI, 9 abstracts in *Abstracts of Papers*, Vol. VI, Aug. 1963, Inter.Assoc. of Physical Oceanography, pp VI-39 - VI-48. A list of the symposia is below; 1961 through 1993 are from the list by Bernard (1995, p. xi); 1997 through 2005 were provided by Linda Sjorgren of the National Weather Service, NOAA, Honolulu, HI. [Note: There was a symposium on tsunami and storm surges, sponsored by the IUGG, at the 11th Pacific Science Congress in Tokyo, Japan, 25-26 August 1966, chaired by Ryutaro Takahasi; it is not on the list below.] Proceedings (or partial proceedings) of most of the symposia have been published; various publishers.

1. 1961 Honolulu, Hawaii, D.C. Cox, editor
2. 1963 Berkeley, California
3. 1966 Berne, Switzerland
4. 1969 Honolulu, Hawaii, W.M. Adams, ed.
5. 1971 Moscow, U.S.S.R., S.L. Soloviev, ed.
6. 1974 Wellington, New Zealand, R.L. Heath and M.M. Cresswell, eds.
7. 1975 Grenoble, France
8. 1977 Ensenada, Mexico, T.S. Murty, ed.
9. 1979 Canberra, Australia, R.D. Braddock, ed.

10. 1981 Sendai, Japan, K. Iida and T. Iwasaki, eds.
11. 1983 Hamburg, Germany, E.N. Bernard, ed.
12. 1985 Victoria, Canada, T.S. Murty and W.J. Rapatz, eds.
13. 1987 Vancouver, Canada, E.N. Bernard, ed.
14. 1989 Novosibirsk, U.S.S.R., V.K. Gusiakov (proceedings [Extended Abstracts], ed.), and E.N., Bernard (book ed.)
15. 1991 Vienna, Austria, S. Tinti, ed.
16. 1993 Wakayama, Japan, Y. Tsuchiya and N. Shuto, eds.
17. 1995 Boulder, Colorado, G. Hebenstreit, ed.
18. 1997 Melbourne, Australia
19. 1999 Birmingham, England, abstracts on IUGG website; some papers in book, G. Hebenstreit, ed.
20. 2001 Seattle, Washington, papers or abstracts on website, and a CD
21. 2003 Sapporo, Japan, abstracts on website; 20 paper proceedings, ed. K. Satake
22. 2005 Chania, Crete, Greece
www.gein.noa.gr/English/tsunamis.htm

Other tsunami symposia and conferences have been held; for example, the *First Tsunami Symposium, Honolulu, HI, 1999*. There have been international tsunami workshops, and other tsunami and related subject workshops and conferences. Proceedings of many are listed below.

Eighteenth International Tsunami Symposium, Melbourne, Australia, 1-9 July 1997, in conjunction with the IAMAS-IAPSO Joint Assembly (**18th IUGG international tsunami symposium**)

First Tsunami Symposium, Honolulu, Hawaii, 1999, (also listed herein as Tsunami Symposium 1999, Honolulu, HI, May 25-27, 1999); papers published in *Science of Tsunami Hazards*, Vol. 17, Nos. 1, 2, and 3, 1999, pp 3-209

International Journal of the Tsunami Society: Science of Tsunami Hazards, now published electronically in PDF format, back issues/current issues
<http://epubs.lanl.gov/tsunami>
<http://www.sthjourn.org>

International Tsunami Meetings, Novosibirsk, USSR, July 31-August 10, 1989: Abstracts of Papers, International Tsunami Symposium and International Workshop on Technical Aspects of Tsunami Warning Systems, Tsunami Analysis, Preparedness, Observation and Instrumentation, Computing Center, Siberian Division of the USSR Academy of Sciences, Novosibirsk, 1989, 76 abstracts, 135 pp. Note: for published papers, see *Tsunami Hazard, Special Issue*, ed. E.N. Bernard, *Natural Hazards*, Vol. 4, Nos. 2&3, 1991, pp 113-326; for Extended Abstracts of 47 papers see *Tsunamis: Their Science and Hazard Mitigation, Proc. International Tsunami Symposium, 1989, Novosibirsk, USSR*, ed. V.K. Gusiakov, 1990, 297 pp. (**14th IUGG international tsunami symposium**)

International Tsunami Symposium 2001, and U.S. National Tsunami Hazard Mitigation Program Review, Univ. Washington, Seattle, Washington, August 7-10, 2001, (**20th IUGG international tsunami symposium**); papers, or abstracts, on a CD, 960 pp; also available through the Internet at <http://www.pmel.noaa.gov/its2001/>

International Workshop: Tsunamis in the South Pacific - Research Towards Preparedness and Mitigation, 25-27 Sept. 2003, Wellington, New Zealand. List of oral presentations and poster

presentations in *Tsunami Newsletter*, Vol. 35, No. 4, August 2003, p. 11; this refers to website <http://www.naturalhazards.net.nz/tsunami>

ITSU Sessions, by Anon., list of dates and locations of twenty meetings, from Meeting I, on 25-28 March 1968, in Honolulu, HI, USA, through Meeting XX, on 3-7 Oct. 2005, in Valparaíso, Chile, by Anon., *Tsunami Newsletter*, Vol. 36, No. 4 (not dated, but received in April 2005)

ITSU XIX National Reports. Submitted for the XIXth Session of the ICG/ITSU, Wellington, New Zealand, 29 Sept. - 3 Oct. 2003, by different authors for each country, *Tsunami Newsletter*, Vol. 36, No. 4, (not dated; received in April 2005), pp 1-52

IUGG XIII General Assembly, Berkeley, CA, August 1963: Abstracts of Papers, Vol. VI, International Association of Physical Oceanography, Symposium on Tsunamis, pp VI-39 - VI-48, 1963 (2nd IUGG international tsunami symposium)

IUGG XXII General Assembly, Birmingham, England, July 1999: Tsunami Observations, Modelling and Hazard Reduction (IASPEI, IAPSO, IAVCEI, IUGG Tsunami Commission), International Symposium, 29-30 July 1999, Abstracts, (58 abstracts) (19th IUGG international tsunami symposium) <http://www.iugg.org/assemblies/1999birmingham/1999abstracts.pdf>

Landslide Tsunamis: Recent Findings and Research Directions, eds. Jean-Pierre Bardet, Costas E. Synolakis, Hugh L. Davies, Fumihiko Imamura, and Emile A. Okal, Special Issue of Pure and Applied Geophysics, Vol. 160, Nos. 10-11, 2003, pp 1,793-2,221

Landslides and Tsunamis, eds. Barbara H. Keating, Christopher F. Waythomas, and Alastair G. Dawson; Birkhauser, Basel, Switzerland, Pure and Applied Geophysics (PAGEOPH) Topical Volume, Vol. 157, 2000, pp 871-1,313

Natural and Man-Made Coastal Hazards, International Conference, August 15-20, 1988: Proceedings, Ensenada, Baja California, Mexico and San Diego, CA, U.S.A, eds. Salvador F. Farreras and George Pararas-Carayannis, printed by support of National Council on Science and Technology (CONACYT) of Mexico, 1989, 250 pp (tsunamis, pp 127-177)

Natural Hazards and Research Needs in Coastal and Ocean Engineering: Summary and Recommendations to the National Science Foundation and the Office of Naval Research, by the Ad Hoc Committee for the Civil and Environmental Engineering Division, National Science Foundation, eds. John H. Nath and Robert G. Dean. Workshop held on 14-15 Feb. 1984 at Oregon State University, Corvallis, OR. Printed Nov. 1984, 62 pp

Perspectives on Tsunami Hazard Reduction: Observations, Theory, and Planning, 13 of the papers presented at the Seventeenth IUGG International Tsunami Symposium, July 3-4, 1995, Boulder, CO, during the XXII IUGG General Assembly, ed. Gerald Hebenstreit, Kluwer Academic Pub., Dordrecht, The Netherlands, 1997, 218 pp (17th IUGG international tsunami symposium)

Proceedings: International Tsunami Symposium, IUGG, 6-9 August 1985, Sidney, B.C., Canada, eds. T.S. Murty and W.J. Rapatz, at the Institute of

Ocean Sciences (12th IUGG international tsunami symposium)

Proceedings: International Tsunami Symposium, IUGG, 18-19 Aug. 1987, Vancouver, B.C., Canada, eds. E.N. Bernard and R.L. Whitney, NOAA, Pacific Marine Environmental Laboratory, Seattle, WA, 1987 (13th IUGG international tsunami symposium)

Proceedings of IUGG Tsunami Symposium, Canberra, Australia, 1979, (9th IUGG international tsunami symposium)

Proceedings of the International Workshop on Tsunami Mitigation and Risk Assessment, Petropavlovsk-Kamchatskiy, Russia, Aug. 21-24, 1996, <http://omzg.sssc.ru/tsulab/content.html>

Proceedings of the International Workshop on Wind and Earthquake Engineering for Offshore and Coastal Facilities, (held at University of California, Berkeley, CA, January 17-19, 1995), compiled by Charles E. Smith, Robert G. Bea, and Tatsuo Uwabe; printed at end of conference at the University of California, Berkeley, CA (note: contact Professor Robert G. Bea, Dept. Civil & Environmental Engrg., UCB), 1995, 467 pp

Proceedings of the 3rd UJNR Tsunami Workshop, Osaka, Japan, 1994, eds. Shigenobu Tanaka and Kenji Noguchi, PWRI Technical Memorandum No. 3315, Tsukuba, Japan, 1994

Proceedings of the Tsunami Meetings Associated with the Tenth Pacific Science Congress, Honolulu, Hawaii, August-September 1961, ed. Doak C. Cox, International Union of Geodesy and Geophysics, (IUGG), Paris, IUGG Monograph No. 24, July 1963, 265 pp (1st IUGG international tsunami symposium)

Proceedings: Tsunami Symposium, Hamburg, Federal Republic of Germany, August 1983, ed. E.N. Bernard, Pacific Marine Environmental Laboratory, Seattle, WA, NOAA, U.S. Government Printing Office, 1984, (16 papers, 8 abstracts; 24 papers presented at meeting), 273 pp (11th IUGG international tsunami symposium)

Report of the International Tsunami Measurements Workshop, Estes Park, Colorado, USA, June 28-29, 1995, Co-conveners James F. Lander and Harry Yeh, National Science Foundation Project CMS-9501539 Workshop on Tsunami Measurements, 1995, 102 pp, xerox copies, NOAA, Boulder, CO <http://www.ngdc.noaa.gov/seg/segd/html> (select "activities" and look for "hazards" section)

Science of Tsunami Hazards, Journal of the Tsunami Society. Now available at its website <http://www.sthjourn.org/>

Second Tsunami Symposium, May 28-31, 2002, Honolulu, Hawaii, East-West Center, Univ. Hawaii, Honolulu, (notice in *Tsunami Newsletter*, Vol. 34, No. 3, June 2002, p. 5); program and abstracts at <http://www.sthjourn.org> Several papers published in *Science of Tsunami Hazards*, Vol. 20, No. 1, 2002, pp 3-49

2nd UJNR Tsunami Workshop, Honolulu, HI, 5-6 Nov. 1990: Proceedings, eds. A.M. Brennan and J.F. Lander, NGDC Key to Geophysical Records Documentation No. 24, NOAA, National Geophysical Data Center, Boulder, CO, U.S. Gov't. Printing Office, Wash. D.C., March 1991, 260 pp

Seismogenic and Tsunamigenic Processes in Shallow Subduction Zones, eds. Jeanne Sauber and Renata Dmowska, Birkhauser, Basel, Switzerland, Pure and Applied Geophysics, Special Issue, Vol. 154, Nos. 3-4, 1999

Seventh IUGG International Tsunami Symposium, Grenoble, France, 29 August 1975, under auspices of IAPSO. List of papers in Tsunami Newsletter, Vol. 8, No. 3, Sept. 1975, pp 11-12; abstracts of eight papers are in Tsunami Newsletter, Vol. 8, No. 2, May 1975, pp 4-7. Were Proceedings published? (**7th IUGG international tsunami symposium**)

Submarine-slump-generated Tsunamis: A Selection of Papers Presented at a "Workshop on the Prediction of Underwater Landslide & Slump Occurrence and Tsunami Hazards off Southern California: Held March 10-11, 2000 at the University of Southern California, ed. David Tappin, Marine Geology, Vol. 203, 2004, pp 199-383

Symposium on Long Waves in the Ocean, National Research Council, Ottawa, Canada, June 6-8, 1978, Dept. of Fisheries and the Environment, Ottawa, Canada, Manuscript Report Series No. 53, 1979, 229 pp

Symposium on Tsunami and Storm Surges, August 25-26, 1966, 11th Pacific Science Congress, Tokyo, Japan: Proceedings, ed. Ryutaro Takahashi, Committee for the PSC Tsunami and Storm Surges Symposium, Tokyo, March 1967, 74 pp (many only abstracts)

Symposium on Tsunamis, Ensenada, Baja California, Mexico, March 23-26, 1977: Proceedings, ed. T.S. Murty, printed by Dept. Fisheries and the Environment, Manuscript Report Series No. 48, Ottawa, Ontario, Canada, 1978, 285 pp (**8th IUGG international tsunami symposium**)

Tsunami Education Planning Workshop Findings and Recommendations, ed. J.W. Good, NOAA, Pacific Marine Environmental Laboratory (PMEL), Seattle, WA, NOAA Tech. Memo. No. ERL PMEL-106, 1995

Tsunami Hazard Mitigation Symposium Proceedings, Ocean Pointe Resort, Victoria, B.C., Canada, 4 Nov. 1997, Western States Seismic Policy Council, Palo Alto, CA, 1998, 78 pp

Tsunami Hazard, Special Issue, ed. E.N. Bernard, 12 selected papers from Fourteenth International Tsunami Symposium, Novosibirsk, USSR, 31 July-3 August 1989, Tsunami 89 Conference, sponsored by IUGG, special issue of Natural Hazards, Vol. 4, Nos. 2&3, 1991, pp 113-326 (**14th IUGG international tsunami symposium**). These are only a few of the 76 papers presented; extended abstracts of 47 are in *Tsunamis: Their Science and Hazard Mitigation, Proceedings of the International Tsunami Symposium, July 31-Aug. 3, 1989*, Novosibirsk, USSR, ed. V.K. Gusiakov, 1990, 295 pp

Tsunami Inundation Modeling Workshop Report, November 16-18, 1993, eds. E.N. Bernard and F.J. Gonzalez, NOAA, Pacific Marine Environmental Laboratory, Seattle, WA, ERL-PMEL-100, 1994, 139 pp

Tsunami Observations, Modelling and Hazard Reduction (IASPEI, IAPSO, IAVCEI, IUGG Tsunami Commission), International Tsunami Symposium, Birmingham, 29-30 July 1999: Abstracts, (**19th IUGG**

international tsunami symposium); see IUGG XXII General Assembly

Tsunami: Progress in Prediction, Disaster Prevention and Warning, eds. Yoshito Tsuchiya and Nobuo Shuto, (from IUGG/IOC Sixteenth International Tsunami Conference, Wakayama, Japan, 23-27 August 1993; 21 papers published of 78 presentations); Kluwer Academic Publishers, Dordrecht, The Netherlands, 1995, 336 pp (**16th IUGG international tsunami symposium**)

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U.S. National Tsunami Hazard Mitigation Program Review and International Tsunami Symposium 2001, Seattle, Washington, 7-10 August 2001, at University of Washington. Listed under International Tsunami Symposium 2001 above. On a CD, 960 pp, and on website (**20th IUGG international tsunami symposium**)
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Videos and Photographs

Videos

Disasters Are Preventable (22 min.), USAID. Ways to reduce losses from various kinds of disasters through preparedness and prevention

Forum: Earthquakes and Tsunamis (2 hrs.), CVTV-23, Vancouver, WA (January, 2000). Two lectures: Brian Atwater describes the detective work and sources of information about the January 1700 Cascadia earthquake and tsunami; Walter C. Dudley talks about Hawaiian tsunamis and the development of warning systems

Raging Planet; Tidal Wave (50 min.), produced for the Discovery Channel in 1997, this video shows a Japanese city that builds walls against tsunamis, talks with scientists about tsunami prediction, and has survival stories

Tsunami B-Roll (Background Information Video), (interview footage, 57:25 minutes; tsunami wave footage, approximately 6 minutes), by U.S.

National Tsunami Hazard Mitigation Program, via UNESCO/IOC International Tsunami Information Center (ITIC); a collection of interviews, tsunami science, and numerical tsunami propagation animations, and other graphics for use by broadcast media as filler or background footage during a television news presentation or a documentary program; in Beta-SP and DVD format
<http://www.tsunamiwave.info>
under Products and Services

Tsunami: Killer Wave, Born of Fire (10 min.), NOAA/PMEL. Features tsunami destruction and fires on Okushiri Island, Japan; good graphics, explanations, and safety information. Narrated by Dr. Eddie Bernard (with Japanese subtitles)

Tsunami: Surviving the Killer Waves (14 min.), DOGAMI. Two versions; one with breaks inserted for discussion time

Tsunami Warning Evacuation News Clips and Video Footage, (11:50 minutes), UNESCO/IOC International Tsunami Information Center, in collaboration with USDOC/NOAA Office of Public Affairs, November 2004; in DVD format
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Wave That Shook the World (60 min.), NOVA, Public TV Station WGBH (Boston, MA), first shown on 30 March 2005. Available on DVD. Largely on the Indian Ocean (Sumatra) tsunami of 26 Dec. 2004, with video scenes of tsunami water flow, video and photos of resulting damage, and tsunami generation and propagation animations; interviews. Additional information about tsunamis in general to place the event in context

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