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TSUNAMI INFORMATION SOURCES

PART 4

(WITH A SECTION ON IMPULSIVELY GENERATED WAVES BY A RAPID MASS MOVEMENT, EITHER SUBMERGED, OR INTO A BODY OF WATER)

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ABSTRACT

Tsunami Information Sources, Part 4, was originally published, on 14 March 2008, as a Hydraulic Engineering Laboratory, Report UCB/HEL 2008-1, of the Dept. of Civil and Environmental Engineering of the University of California at Berkeley. It is published now in "SCIENCE OF TSUNAMI HAZARDS" with the permission of the author, so that it can receive wider distribution and use by the Tsunami Scientific Community.

INTRODUCTION

A great amount of technical information on tsunamis is available in journals, books, reports, newspapers, and websites. After the Sumatra-Andaman Islands Earthquake and the accompanying Indian Ocean Tsunami of 26 December 2004, the author updated his list of tsunami information sources, and made the citations available in a 115 page report. The sources are listed in the following categories:

Articles, papers, reports, by author(s)
Bibliographies
Books, monographs, pamphlets
Catalogs of events
Collections
Journals, newsletters
Maps
Organizations
Proceedings, symposia, workshops
Videos, photographs

For convenience, some sources are listed twice, under title and under author(s).

The author continued to update the list, and modified the presentation in three subsequent reports, of which this is the last one. The four reports are in print and electronic format; they are:

Tsunami Information Sources (by Robert L. Wiegel, University of California, Berkeley, CA, UCB/HEL 2005-1, 14 December 2005, 115 pages, about 3,500 sources); available in printed format, and on a diskette. It is also available in electronic format at the Water Resources Center Archives (WRCA), University of California, Berkeley, CA, at http://www.lib.berkeley.edu/WRCA/tsunamis.html
and in Science of Tsunami Hazards (the International Journal of the Tsunami Society), Vol. 24, No. 2, 2006, pp 58-171, at http://www.sthjournal.org/sth6htm
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Tsunami Information Sources; Part 3 (by Robert L. Wiegel, University of California, Berkeley, CA, UCB/HEL 2006-3, 18 December 2006, 23 pp, about 440 additional sources) available in printed format, and on a diskette. It is also available in electronic format at the Water Resources Center Archives (WRCA), University of California, Berkeley, CA http://www.lib.berkeley.edu/WRCA/tsunamis.html
And presenty at this issue of "Sicence of Tsunami Hazards"

This is Part 4 of the report (by Robert L. Wiegel, UCB/HEL 2008-1, 14 March 2008, 64 pp, about 800 additional sources). It is available on a diskette at the Water Resources Center Archives, 410 O'Brien Hall, University of California, Berkeley, CA 94720-1718, and in electronic format at
http://www.lib.berkeley.edu/WRCA/tsunamis.html

Most of the nearly 5,000 sources are publications or reports. Many of the publications referred to are available in the Water Resources Center Archives, or other parts of the University of California Library System.

As in Part 2 and in Part 3, two components of the present report are:

1. Sections A and B. Sources added, and corrections to a few listed previously.

2. Sections C and D. References in Sections A and B (and a few from the earlier report that were not so listed), that can be classified in one of the following two categories:

Section C. Planning and engineering for design for tsunami mitigation/protection; adjustments to the hazard; damage to structures and infrastructure.

Section D. Tsunami propagation nearshore; induced oscillations; runup/inundation (flooding) and drawdown.

A new section has been added in the present report. It is Section E. Impulsively generated waves by a rapid mass movement, either submerged (submarine), or into (subaerial), the ocean, a bay, lake, reservoir, river. The mass movement may be a landslide, rockfall, debris avalanche, slump, rigid body.

Much is known about damage to structures and infrastructure by tsunamis, and to injury and loss of life (public safety), on land and in harbors; including secondary damage such as oil spill, spread, and fire. How does one plan, engineer, construct new, retrofit old, and manage for protection/mitigation in regard to tsunami hazards, and how does one adjust to the hazards: What is the relative importance of zoning/ land-management, open-space, elevation, tsunami-resistant structures, defense structures (breakwaters, seawalls, dikes, gates, forests/groves, drainage canals), aesthetics, convenience/inconvenience to people, public education" The knowledge of these subjects is widely scattered, and from the several thousand tsunami information sources listed in the first report, and in Parts 2, 3, and 4, the author has listed several hundred sources on these subjects in Section C of Parts 2, 3, and 4.

Closely associated with the above subjects are tsunami propagation nearshore (such as edge waves, Mach-reflection/Mach-stem, wave trapping, refraction/diffraction, wave focusing, wave scattering, bay and harbor oscillations); and the runup of tsunamis onto shore (and drawdown/ receding floodwater). Runup may occur as a fast rising tide, or a surge, or a bore. In addition to information on inundation/flooding, the subject runup and drawdown includes flow characteristics of the water; and the resulting scouring and sediment movement. It includes transport of wreckage, other debris, boats, automobiles, and other floating objects, including buildings which are not adequately attached to their foundations and floated away. Several hundred sources on these subjects are listed in Section D of Parts 2, 3, and 4.

In Section E [impulsively generated waves caused by a rapid mass movement (landslide, debris avalanche, rockfall, slump, rigid body) in, or into, the ocean, a bay, lake, reservoir] - in addition to the hydrodynamics of wave formation and travel, references are given about submarine slides and other mass movements. An important aspect is the time histories of the mass movements (accelerations, speeds), but little is known about this. Also, when did the underwater slides that have been identified occur? This information is needed to develop a base for estimating the probability of occurrence, but little is known. About 500 information sources are listed herein.

ACKNOWLEDGMENTS

I wish to acknowledge my appreciation to the Water Resources Center Archives staff and its Director Linda Vida for their great help in finding some difficult to obtain publications; in particular Paul S. Atwood, Kady Ferris, and Trina Pundurs for their 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. SECTIONS A AND B. ADDITIONS, OR CORRECTIONS, TO THE FIRST THREE REPORTS

A. BIBLIOGRAPHIES; BOOKS, MONOGRAPHS, AND PAMPHLETS; CATALOGS; COLLECTIONS; JOURNALS AND NEWSLETTERS; MAPS; ORGANIZATIONS; PROCEEDINGS, SYMPOSIA, AND WORKSHOP; VIDEO AND PHOTOGRAPHS

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2. SECTIONS C, D, AND E

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SECTION E. IMPULSIVELY GENERATED WAVES BY A RAPID MASS MOVEMENT (LANDSLIDE, DEBRIS AVALANCHE, ROCKFALL, SLUMP, RIGID BODY), EITHER SUBMERGED OR INTO A BODY OF WATER

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