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# TSUNAMI INFORMATION SOURCES PART 2

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## INTRODUCTION

*Tsunami Information Sources* (Robert L. Wiegel, University of California, Berkeley, CA, UCB/HEL 2005-1, 14 December 2005, 115 pages), is available in printed format, and on a diskette. It is also available in electronic format at the Water Resources Center Archives, University of California, Berkeley, CA
http:www.lib.berkeley.edu/WRCA/tsunamis.html
and in the International Journal of The Tsunami Society, *Science of Tsunami Hazards* (Vol. 24, No. 2, 2006, pp 58-171) at
http://www.sthjournal.org/sth6.htm.

This is Part 2 of the report. It has two components. They are:

1.(Sections A and B). Sources added since the first report, and corrections to a few listed in the first report.

2.(Sections C and D). References from both the first report and this report, listed in two categories:

Section C. Planning and engineering 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.

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

It should be recalled that the water waves now most commonly known as tsunamis, in the past were also called tidal waves or seismic sea waves.

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 this report, I have listed here in Section C several hundred sources that are on these subjects.

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 bore, or a surge. 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 here in Section D.

Section D also includes papers on problems in obtaining reliable quantitative data on tsunami surface elevations from measurements by tide gages, most of which are non-linear.

Tsunami warning systems and evacuation have not been included in Sections C or D. It would be useful to have a separate section on this subject; there are many sources. Workshops and symposia have been held on this subject, international and national. Warning systems and evacuation are beneficial if the tsunami source is sufficiently distant that adequate time is available for warning and evacuation; even if there isn't time for evacuation, warning systems are useful. There has been much experience with tsunami warning and evacuation in the Pacific Ocean area for many years, and systems in other areas are under development.

Horikawa and Shuto ("Tsunami Disasters and Protection Measures in Japan," 1983, on pp 21-22) say:

"It is quite dangerous to believe that the violent attack of tsunami can be completely prevented by man-made structures. Based on past experience evacuation to a safe area and before tsunami attack is the best recourse for the inhabitants. It is incorrect to depend too much on the functioning of coastal defense structures."

In some areas the tsunami generating source is so close that almost no time is available for evacuation. In some regions both tsunami and direct earthquake effects (shaking, subsidence/uplift, liquefaction, landslides) occur nearly simultaneously.

It is evident from a review of many of the sources that much is known about what to do (or not to do), and how to assess tsunami hazard and risk. Then, there must be decisions and implementation, often difficult; they involve choices/tradeoffs and risk. This may even include the relocation of parts of a town, such as was done at Valdez, Alaska, after the 1964 earthquake and tsunamis. But, this was complicated by the fact that Valdez is a port, requiring facilities and infrastructure in the harbor and contiguous land.

In regard to ships and boats, the report of the Committee on Earthquake Engineering Research of the National Research Council and the Academy of Engineering say (*Earthquake Engineering Research*, 1969, on page 247):

"The safest place for ships and boats of all types during a tsunami is the open sea. A standard procedure of the Seismic Sea-Wave Warning System of USCGS [U.S. Coast and Geodetic Survey] is to advise that ships vacate any threatened port and make for open water, as far from shallow water and enveloping coastline as possible."

What is meant in Section C by the term adjustments to the hazard? Ayre (with

Mileti and Trainer, in *Earthquake and Tsunami Hazards in the United States: A Research Assessment*, 1975) say:

"The word 'adjustment', as used here, is not meant to imply complete avoidance of risk. Some degree of risk must be acceptable, for economic reasons. Furthermore, because of the infrequent occurrence of tsunamis, information regarding their possible impact locations and runup heights is very scanty, and it must be assumed that no reasonable action can take into account all possible risk..."

Risk is defined in the report *Tsunami Risk Reduction for the United States: A Framework for Action* (National Science and Technology Council, Executive Office of the President of the United States, A Joint Report of the Subcommittee on Disaster Reduction and the United States Group on Earth Observations, December 2005):

"Risk - the probability of harmful consequences or expected losses (death and injury), losses of property and livelihood, economic disruption, or environmental damage: resulting from interactions between natural or human-induced hazards and vulnerable conditions,"

The terms tsunami runup and inundation are sometimes used differently in various reports. Synolakis, McCarthy, Titov, and Borrero ("Evaluating the Tsunami Risk in California," in *California and the World Ocean '97: Conference Proceedings, March 24-27, 1997, San Diego, CA, U.S.A.*, eds. O.T. Magoon, H. Converse, B. Baird, and M. Miller-Henson, ASCE, 1998, pp 1,225-1,236) write:

"As a preamble, we will define the terms runup and inundation, which are sometimes misused. Wave runup is the rush of water up a structure or a beach; it is called uprush. The maximum runup is the vertical height above stillwater that the rush of water reaches as it climbs onshore. Specific knowledge of the maximum wave runup on a given beach is essential both in shore protection and in the design of coastal structures. Sometimes the term tsunami height is used to refer to the runup height, begging the question the tsunami height at what depth? Inundation refers to the horizontal distance the wave penetrates inland. Depending on land use, either runup or inundation are relevant, and most often both. In addition the wave-front velocity as the wave strikes the shoreline is an important design parameter. An inundation computation includes predictions of runup heights, inundation distances and inundation currents."

Rather than reporting the elevation above the still water level, values are commonly given as the highest level reached by the tsunami wave above some reference level such as high water level, mean sea level, or mean lower low water.

Some recommendations made in recent publications have been made before; as an example of earlier sources see:

*Earthquake Engineering Research* (report of the Committee on Earthquake Engineering Research, of the National Research Council and the National Academy of Engineering; National Academy of Science, Washington, D.C. 1969, 313 pp). This includes the nature of the problems and the state of knowledge in the field, where knowledge was lacking and research needed (for tsunamis, pp 233-265).

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*Designing for Tsunamis: Seven Principles for Planning and Designing for Tsunami Hazards*, National Tsunami Hazard Mitigation Program, - NOAA, USGS, FEMA, NSF, Alaska, California, Hawaii, Oregon, and Washington, March 2001, 60 pp (8-1/2" x 11" format, with illustrations)

The present report is also 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 publications are available in the Water Resources Center Archives or other parts of the University of California Library System.

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. (SECTIONS A and B). ADDITIONS AND CORRECTIONS TO THE FIRST REPORT

### A. BIBLIOGRAPHIES; BOOKS, MONOGRAPHS, AND PAMPHLETS; CATALOGS; COLLECTIONS; JOURNALS AND NEWSLETTERS; MAPS; ORGANIZATIONS; PROCEEDINGS, SYMPOSIA, AND WORKSHOPS; VIDEOS AND PHOTOGRAPHS

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*The Tsunami Threat to California: Findings and Recommendations on Tsunami Hazards and Risks*, by Tsunami Safety Committee of the Seismic Safety Commission, State of California, CSSC 05-03, December 2005, 15 pp

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## 2. SECTIONS C and D

### C. PLANNING AND ENGINEERING DESIGN FOR TSUNAMI MITIGATION/ PROTECTION; ADJUSTMENTS TO THE HAZARDS; DAMAGE TO STRUCTURES AND INFRASTRUCTURE

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