

NOAA Technical Memorandum OAR PMEL-136

**SCIENTIFIC AND TECHNICAL ISSUES IN TSUNAMI HAZARD ASSESSMENT
OF NUCLEAR POWER PLANT SITES**

Science Review Working Group

Pacific Marine Environmental Laboratory
Seattle, WA

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May 2007



**UNITED STATES
DEPARTMENT OF COMMERCE**

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**NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION**

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This report should be cited as:

González, F.I., E. Bernard, P. Dunbar, E. Geist, B. Jaffe, U. Kânoğlu, J. Locat, H. Mofjeld, A. Moore, C. Synolakis, V. Titov, and R. Weiss (Science Review Working Group) (2007): Scientific and technical issues in tsunami hazard assessment of nuclear power plant sites. NOAA Tech. Memo. OAR PMEL-136, Pacific Marine Environmental Laboratory, Seattle, WA, 125 pp. + appendices on CD.

Contribution No. 3031 from NOAA/Pacific Marine Environmental Laboratory

Also available from the National Technical Information Service (NTIS)
(<http://www.ntis.gov>)

Table 2-1: U.S. tsunami events and runup measurements by State, territory and region, deaths, and dollar damage from the NOAA/NGDC tsunami database from 1690 to the present.

State/Territory	No. events with any observed runup	No. events with measured max runup				No. events with measured max runup >5.0 m	Total no. observations	No. deaths	Millions dollars damage
		0.01 – 0.5 m	0.5 – 1.0 m	1.0 – 3.0 m	3.0 – 5.0 m				
U.S. Atlantic East Coast									
Maine	1						3		
New Hampshire	1						1		
Massachusetts	1						2		
Rhode Island	2	1					3		
Connecticut	1						1		
New York	2	1					7		
New Jersey	6	2	1				8		
Pennsylvania									
Delaware									
Maryland	1	1					1		
Virginia									
North Carolina									
South Carolina	2	1					2		
Georgia									
Florida	4	1					5		
Totals	21	7	1	0	0	0	33	0	0
U.S. Gulf Coast									
Florida									
Alabama									
Mississippi									
Louisiana									
Texas	1	0	0	0	0	0	1	0	0
Totals	1	0	0	0	0	0	1	0	0
Puerto Rico and Virgin Islands									
Puerto Rico	9	3	2	2		1	33	142	4
Virgin Islands	7	1	1	1	1	1	15	30	
Totals	16	4	3	3	1	2	48	172	4

Table 2-1: (continued).

State/Territory	No. events with any observed runup	No. events with measured max runup					No. events with measured max runup >5.0 m	Total no. observations	No. deaths	Millions dollars damage
		0.01 - 0.5 m	0.5 - 1.0 m	1.0 - 3.0 m	3.0 - 5.0 m	>5.0 m				
Alaska	79	46	3	6	1	15	357	222	122	
U.S. West Coast										
Washington*	18	12	1	2	1	1	68	2	2	
Oregon*	21	15	1	2	2		76	5	1	
California*	74	46	8	9	3	2	423	19	19	
W Coast Totals	113	73	10	13	6	2	567	24	22	
Hawaii	112	74	7	11	9	10	1580	328	59	
U.S. Western Pacific island territories										
Guam	16	10	1	1		1	24	1		
Northern Marianas	1						1			
American Samoa	53	37	4	3			58			
W Pacific Totals	70	47	5	4	0	1	83	1	0	
American Totals	412	251	29	37	17	30	2669	747	207	

*Include Cascadia tsunami deposit sites