D.2.13 References

Ahrens, J.P. 1981. Irregular Wave Runup on Smooth Slopes. *Technical Aid No. 81-17*, U.S. Army Engineer Waterways Experiment Station, Coastal Engineering Research Center, Vicksburg, MS.

Ahrens, J.P. 1990. Dynamic Revetments. In *Proceedings of the 22nd International Conference on Coastal Engineering* held July 2–6, 1990 in Delft, Netherlands. American Society of Civil Engineers, pp. 1837–1850.

Allan, Jonathan C. and Paul D. Komar. 2004. Morphologies of Beaches and Dunes on the Oregon Coast, with Tests of the Geometric Dune-Erosion Model, *Technical Memo*, August 2004, 43 pp.

Allsop, W. 2004. Note on Technical Guidance for Overtopping Studies, HR Wallingford, *Technical Note CBR3663 TN 01 Rev 01*, Wallingford, England, August 25.

Bascom, Willard. 1964. *Waves and Beaches - The Dynamics of the Ocean Surface*, Anchor Books, Doubleday & Company, Garden City, New York, 267 pp.

Battjes, J.A. 1974. Computation of Set-Up, Longshore Currents, Runup and Overtopping Due to Wind Generated Waves. Ph.D. Dissertation, Technische Hogeschool, Delft, Netherlands.

Besley, P. 1999. Overtopping of seawalls – design and assessment manual, *R & D Technical Report W 178,* ISBN 1 85705 069 X, Environment Agency, Bristol, UK.

Besley, P. and Allsop, N.W.H. 2000. Wave overtopping of seawalls, breakwaters and related structures. Chapter 6 In *Handbook of Coastal Engineering*, pp. 6.1–6.21, Editor J. Herbich, ISBN 0-07-134402-0, McGraw-Hill, New York.

Besley, P., Stewart, T. and Allsop, N.W.H. 1998. Overtopping of vertical structures: new prediction methods to account for shallow water conditions*, Proc. ICE Conf. Coastlines, Structures and Breakwaters*, Thomas Telford, London.

Birkemeier, W.A., et al. U.S. Army Corps of Engineers, Coastal Engineering Research Center. Feasibility Study of Quantitative Erosion Models for Use by FEMA in the Prediction of Coastal Flooding, Technical Report CERC-87-8. Vicksburg, Mississippi.

Bruun, P. 1962. Sea Level Rise as a Cause of Shore Erosion, *Journal of Waterway, Division, ASCE*, 88 (1); 117–130.

Chappell, G. 1978. Coastal Flooding Study Methodology for Northern Puget Sound*, Interagency Memorandum to Frank Tsai*, FEMA Engineering/Hydraulics, March 10.

Cox, J. C. and J. Machemehl. 1986. Overland Bore Propagation Due to an Overtopping Wave. *Journal of Waterway, Port, Coastal and Ocean Engineering*, Vol. 112, pp. 161–163.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

Darras, M., et al. 1986. List of Sea State Parameters, *Permanent International Association of Navigation Congresses Supplement to Bulletin No 52*, General Secretariat of PIANC: Résidence Palace, Quartier, Jordaens, rue de la Loi, 155, 1040 Brussels, Belgium.

Dean, R.G. 1978. Effects of Vegetation on Shoreline Erosional Processes, *Proceedings, National Symposium on Wetlands*, November, pp. 415–426.

Dean, R.G. 1979. Evaluation of Possible Bias in the Storm Surge Data Due to Wave Effects, *Research Report CE-82-29*, University of Delaware, Civil Engineering Department, Newark, Delaware.

Dean, R.G. 1987. Recommended Interim Methodology for Calculation of Wave Action and Wave Set-up Effects, *Research Report CE-82-32*, University of Delaware, Civil Engineering Department, Newark, Delaware.

Dean, R.G. 1987. Recommended Procedure for Calculating Wave Damping Due to Vegetation Effects and Wave Instability, *Research Report CE-78-302*, University of Delaware, Civil Engineering Department, Newark, Delaware.

Dean, R.G. and R.A. Dalrymple. 1991. *Water Wave Mechanics for Engineers and Scientists,* World Scientific Press, Singapore, 353 pp.

Dean, R.G., and R.A. Dalrymple. 2002. *Coastal Processes with Engineering Application*. p. 174, Cambridge University Press, 475 pp.

Dean, R.G. and C.J. Bender. 2006. Static Wave Setup with Emphasis on Damping Effects by Vegetation and Bottom Friction. *Coastal Engineering*, Vol. 13, pp. 149–156.

de Waal, J.P., and van der Meer, J.W. 1992. Wave run-up and overtopping on coastal structures. *Proceedings of 23rd International Conference on Coastal Engineering*: pp. 1758–1771, ASCE, New York.

Dewberry & Davis. 1990. Investigation and Improvement of the Capabilities of the FEMA Wave Runup Model (Technical Documentation for RUNUP 2.0), Report and Computer Program. Fairfax, Virginia.

Downing, J. 1983. *The Coast of Puget Sound: Its Processes and Development*, Puget Sound Books, Seattle Washington, 126 pp.

Federal Emergency Management Agency. February 1981. Users Manual for Wave Height Analysis, revised. Washington, D.C.

Federal Emergency Management Agency. 1984. Procedures for Applying Marsh Grass Methodology. Washington, D.C.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

Federal Emergency Management Agency. 1986. Assessment of Current Procedures Used for the Identification of Coastal High Hazard Areas (V Zones). Washington, D.C.

Federal Emergency Management Agency. 1988a. Coastal Flooding Hurricane Storm-surge model. Washington, D.C August.

Federal Emergency Management Agency. 1988b. Wave Height Analysis for Flood Insurance Studies (Technical Documentation for WHAFIS Program Version 3.0). Washington, D.C. September

Federal Emergency Management Agency. 1988c. Basis of Erosion Assessment Procedures for Coastal Flood Insurance Studies. Washington, D.C. November

Federal Emergency Management Agency. 1990. *Criteria for Evaluating Coastal Flood Protection Structures for National Flood Insurance Program (NFIP) Purposes*, Memorandum from Harold Duryee, FIA Administrator to FEMA Regional Directors. April 23, 1990. 7 pp.

Federal Emergency Management Agency. 2003. *Guidelines and Specifications for Flood Hazard Mapping Partners, Appendix D: Guidance for Coastal Flooding Analyses and Mapping*. Washington, D.C.

Federal Emergency Management Agency. 2004.*Final Draft Guidelines for Coastal Flood Hazard Analysis and Mapping for the Pacific Coast of the United States*. Washington, D.C.

Franco, L, de Gerloni, M and van der Meer, JW. 1994. *Wave overtopping at vertical and composite breakwaters*. Proc. Coastal Engineering Conference, Kobe, Japan.

French, J. 1982. Memorandum on Special Computation Procedure Developed for Wave Runup Analysis for Casco Bay, FIS - Maine, 9700-153. Camp Dresser & McKee.

Gadd, P. E., Potter, R. E., Safaie, B. & Resio, D. 1984. Wave Runup and Overtopping: A Review and Recommendations. OTC 4674. *Proceedings 1984 Offshore Technology Conference*, pp. 239-248.

Gilhousen, D. B., Meindl, E. A., Changery, M. J., Franks, P. L., Burgin, M. G., & McKittrick, D. A. 1990. *Climatic Summaries for NDBC Buoys and Stations: Update 1*. National Data Buoy Center, National Space Technology Laboratory. Mississippi.

Goda, Y. 1983. *Analysis of Wave Grouping and Spectra of Long Traveled Swells*. Report of the Port and Harbour Research Institute, Japan, 22(1): 3–41.

Goda, Y. 1985. *Random Seas and Design of Maritime Structures*, University of Tokyo Press, Japan.

Griggs, G. and L. Savoy, editors. 1985. *Living with the California Coast,* Sponsored by the National Audubon Society, Duke University Press, Durham, North Carolina.393 pp.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

Hedges, T.S. and H. Mase. 2004. Modified Hunt's Equation Incorporating Wave Setup, *Journal of Waterway, Port, Coastal and Ocean Engineering,* Vol. 130, No. 3, ASCE, pp. 109–113.

Herbich, J.B. 1991. *Handbook of Coastal and Ocean Engineering*, Gulf Publishing Company, Houston, Texas.

Hunt, I.A. 1959. Design of Seawalls and Breakwaters, *Journal of Waterways and Harbors Division, ASCE*, Vol. 85, No. 3, pp. 123–152.

Inman, D.L. and J.D. Frautschy. 1966. Littoral processes and the development of shorelines. *Proc. Specialty Conf. on Coastal Engineering*, ASCE, Santa Barbara, California, 511–536

Inman, D.L. and C.E. Nordstrom. 1971. On the tectonic and morphologic classification of coasts, *Journal of Geology,* 79, 1–21.

Inman, D.L. 1994. Types of Coastal Zones: Similarities and Differences, *Environmental Science in the Coastal Zone: Issues for Further Research*, Commission on Geosciences, Environment and Resources (CGER), Washington, DC, pp. 67–84

Inman, D.L. and Jenkins, S.A. 1999. Climate change and the episodicity of sediment flux of small California rivers. *Journal of Geology*, 107: 251–270.

Jackson, N.L., K.F. Nordstrom. 1992. Site Specific Controls on Wind and Wave Processes and Beach Mobility on Estuarine Beaches in New Jersey, U.S.A., *Journal of Coastal Research*, Vol. 8, No. 1, pp. 88–98.

Jackson, N.L., et al. 2002. "Low Energy" Sandy Beaches in Marine and Estuarine Environments: A Review, *Geomorphology* 48, pp 147–162.

Jensen, O.J. and Sorensen, T. 1979. Overspilling/overtopping of rubble mound breakwaters. Results of studies, useful in design procedures. *Coastal Engineering* Vol. 3 pp. 51–65.

Johnson, J.W. 1972. Tidal Inlets on the California, Oregon and Washington Coasts, University of California Hydraulic Engineering Laboratory, *HEL-24-12*, Berkeley, California. February.

Kanamori, H. 1970. The Alaska earthquake of 1964: Radiation of long-period surface waves and source mechanism, *Journal of Geophysical Research*. 75, 5029–5040.

Kirby, J. T. and H. T Ozkan. 1992. Combined Refraction/Diffraction Model for Spectral Wave Conditions REF/DIF S, Version 1.0. Documentation and User's Manual, *Research Report No. CACR-92-06*, Center for Applied Coastal Research, Department of Civil Engineering, University of Delaware, Newark.

Knutson, P.L., W.N. Seelig, and M.R. Innskeep. 1982. Wave Damping in *Spartina Alterniflora* Marshes, *Wetlands, Journal the Society of Wetland Scientists*, Vol. 2, pp 87–105.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

Knutson, P.L. and J.C. Steele. 1988. Siting Marsh Development Projects on Dredged Material in the Chesapeake Bay, *Proceedings, Beneficial Uses of Dredged Material Workshop*, Baltimore, Maryland, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.

Kobayashi, N. 1999. Wave Runup and Overtopping on Beaches and Coastal Structures. Page 95–154 in *Advances in Coastal and Ocean Engineering – Vol. 5*. World Scientific, edited by P. L-F. Liu.

Komar, P.D. 1998. *Beach Processes and Sedimentation*: Second Edition, Prentice Hall.

Komar, P.D. 1998. The 1997-98 El Nino and erosion of the Oregon coast. *Shore & Beach*, 66:3

Komar, P.D. 2004. Memorandum #3 to NHC, Process-based numerical models of dune erosion.

Komar, P.D. and Jonathan C. Allan. 2004. El Nino Processes and Erosion of the U.S. West Coast, *Technical Memo*, August 9, 2004.

Komar, P.D. and Jonathan C. Allan. 2002. Assessments of nearshore-process climates related to their potential for producing beach and property erosion, *Shore and Beach*, Vol. 70(3): 31–40.

Komar, P.D., et al. 1999. The Rational Analysis of Setback Distance: Applications to Oregon Coast, *Shore and Beach*, 67 (1), 41–49.

Komar, P.D., et al. 2002. Coastal Erosion Processes and Assessments of Setback Distances, in Proceedings of Solutions to Coastal Disasters ’02, Feb 24–27, 2002, San Diego, California, pp 808–822.

Kriebel, D.L., and R.G. Dean. 1985. Numerical Simulation of Time-Dependent Beach and Dune Erosion. *Coastal Engineering*. Volume 9. Pages 221–245.

Kriebel, D.L. and Dean R.G. 1993. Convolution method for time-dependent beach profile response, *Journal of Waterway, Port, Coastal, and Ocean Engineering, ASCE*, 119:204–226.

Kriebel, D.L. 1984a. Beach Erosion Model (EBEACH) Users Manual, Volume I: Description of Computer Model, *Beach and Shores Technical and Design Memorandum No. 84-5-I,* Division of Beaches and Shores, Florida Department of Natural Resources, Tallahassee, Florida.

Kriebel, D.L. 1984b. Beach Erosion Model (EBEACH) Users Manual, Volume II: Theory and Background, *Beach and Shores Technical and Design Memorandum No. 84-5-II*, Division of Beaches and Shores, Florida Department of Natural Resources, Tallahassee, Florida.
Kuik, A.J., van Vledder, G.P., and L.H. Holthuijsen. 1988. A Method for Routine Analysis of Pitch-and-Roll Buoy Data. *Journal of Physical Oceanography*, 18: 1020–1034.

Lenček and Bosker. 1998. *The Beach: The History of Paradise on Earth.* Viking New York, 310 pp.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

Larson, M., and N.C. Kraus. 1989. SBEACH: Numerical model for simulating storm-induced beach change; Report 1, Empirical foundation and model development, *Technical Report CERC-89-9,* U.S. Army Engineer Waterways Experiment Station, Vicksburg, Misissippi.

Larson, M. and N.C. Kraus. 1998. SBEACH: Numerical model for simulating storm-induced beach change; Report 5, Representation of non-erodible (hard) bottoms, *Technical Report CERC-89-9*, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.

Larson, M., Kraus, N.C., and M.R. Byrnes. 1990. SBEACH: Numerical model for simulating storm-induced beach change; Report 2, Numerical formulation and model tests, *Technical Report CERC-89-9*, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.

Lee, S.C. 1995. *Response of Mud Shore Profiles to Waves*, Ph.D. Dissertation, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida, 214 pp.

Massel, S.R. 1995, *Ocean Surface Waves: Their Physics and Prediction*, World Scientific Press, Singapore, 491 pp.

McDougal, W.G. and R.C. MacArthur. 2004a. Geometric Model for Foredune Erosion, *Technical Memo/ Support Document for FEMA Guidelines*, August 2, 2004, 28 pp.

McDougal, W.G. and R.C. MacArthur. 2004b. EBE MLWP Discussion, *Internal Support Document*, August 22, 2004, 4 pp.

Miller, C.D. 1984. Problems and Approaches in Mapping Velocity along the U.S. Coastline, in: Managing High Risk Flood Areas: 1985 and Beyond, *Proceedings of the Eight Annual Conference of the Association of State Floodplain Managers,* editors: J. Monday and D.L. Butler, Portland, Maine. pp. 11–14.

National Academy of Sciences. 1977. Methodology for Calculating Wave Action Effects Associated with Storm Surges. Washington, D.C.

NOAA. 2000. Nautical Chart Symbols, Abbreviations and Terms, Chart No. 1, Eleventh Edition, Lighthouse Press, Annapolis, Maryland. p. 99. NOAA Nautical Chart Users Manual <http://chartmaker.ncd.noaa.gov/staff/ncum/ncum.htm>.
NOAA, 2000. Tidal Datums and Their Applications, *NOAA Special Publication NOS CO-OPS-1*, Silver Spring, Maryland. http://www.coops.nos.noaa.gov/publications/ tidal_datums and_their_applications.pdf. June.

NOAA. 2003. Computational Techniques for Tidal Datums Handbook, *NOAA Special Publication NOS CO-OPS-2*, Silver Spring, Maryland. <http://www.co-ops.nos.noaa.gov/publications/Computational_Techniques_for_Tidal_Datums_handbook.pdf>. September.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

Noble Consultants, Inc. 1994. "*Reconnaissance Report: Malibu/Los Angeles County Coastline, California*", prepared for the U.S. Army Corps of Engineers, Los Angeles District. April

Noble Consultants, Inc. 2004. "*Test Case Studies for Geometric Models*, Draft report prepared for NHC and FEMA. August.

Nordstrom, K.F. and N.L. Jackson. 1992. Two dimensional change on sandy beaches in estuaries, *Zeitschrift fur Geomorphologie*, 36 (4), pp. 465–478.

O'Brien, M.P. 1976. Notes on Tidal Inlets on Sandy Shores, *GITI Report 5*, DACW72-71-C-0005, 28 pp. February.

Pugh, D.T. 1987. *Tides, Surges and Mean-Sea Level*, John Wiley & Sons, Ltd., New York.

Pullen T., et al. 2004. Violent wave overtopping discharges and the safe use of seawalls, *Proc. DEFRA Conference of River and Coastal Engineers*, New York. June.

Pullen T., et al. 2004. Violent Wave Overtopping at Samphire Hoe: Field and Laboratory Measurements, to appear in *Proceedings of the 29th International Conference on Coastal Engineering, ASCE*, Lisbon, Portugal.

PWA. 2004. Technical Report on Wave Transformations and Storm Wave Characteristics, Report prepared for NHC and FEMA.

Ramsden, J.D. and F. Raichlen. 1990. Forces on Vertical Wall Caused by Incident Bores, *Journal of Waterway, Port, Coastal and Ocean Engineering*, American Society of Civil Engineers, Vol. 116, No. 5, pp. 592–613.

Raudkivi, A.J. 1996. Permeable Pile Groins, *Journal of Waterway, Port, Coastal, and Ocean Engineering, ASCE*, Vol. 122, No. 6, pp. 267–272.

Richardson, E.V. and S.R. Davis. 1995. Evaluating Scour at Bridges, Federal Highway Administration Publication No. FHWA-IP-90-017, *Hydraulic Engineering Circular No. 18*. November.

Ruggerio, P.P.D., et al. 2001. Wave Runup, Extreme Water Levels and the Erosion of Properties Backing Beaches, *Journal of Coastal Research,* Vol. 17, No. 2, pp. 407–419.

Sampson, D.W., and R. Haney. 2004. *Primary Frontal Dune Delineation for Velocity Zone Mapping in Massachusetts. Proceedings of the Association of State Floodplain Managers 28th Annual Conference, Biloxi, MS.*

Sakai, S. and N. Kobayashi. 1990. Breaking Condition of Shoaling Waves on Opposing Current, *Journal of Waterway, Port, Coastal, and Ocean Engineering, ASCE*, Vol. 116, No. 2, pp. 302–306.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

Scheffner, N.W., et al. 1999. Use and application of the Empirical Simulation Technique: User's Guide. U.S. Army Engineer Research and Development Center, Vicksburg, Mississippi, Technical Report CHL-99-21.

Seymour, R.J., et al. 1984. Influence of El Ninos on California's wave climate. *Proc. 19th Int. Conf. on Coastal Engineering*, ASCE, Houston, Texas, 1, 577–592.

Shepard, F.P. 1982. "North America, Coastal Morphology." Encyclopedia of Beaches and Coastal Environments, Encyclopedia of Earth Sciences, Volume XV, Schwartz, Maurice L., Editor, Hutchinson Ross Publishing Co., pp 593–603.

Shore & Beach, 1989, Vol. 57:4, See entire volume that is devoted to January 1988 storm.

Southgate, H.N., and R.B. Nairn. 1993. Deterministic Profile Modeling of Nearshore Processes I: Waves and Currents. *Coastal Engineering.* Volume 19. Pages 27–56.

Stockdon, H.F., et al. 2004. Empirical Parameterization of Setup, Swash, and Runup, *Manuscript Submitted to Journal of Geophysical Research for Publication Consideration.*

Stone and Webster Engineering Corporation. 1981. Manual for Wave Runup Analysis, Coastal Flood Insurance Studies. Boston, Massachusetts.

Suhayda, J.N. 1984. Attenuation of Storm Waves Over Muddy Bottom Sediments. Baton Rouge, Louisiana.

Sunamura, T. 1982. A Predictive Model for Wave-Induced Cliff Erosion, With Application to Pacific Coasts of Japan, *Journal of Geology*, 1982, Vol. 90.

Sunamura, T. 1983. CRC Hand Book of Coastal Processes and Erosion, Chapter 12: Processes of Sea Cliff and Platform Erosion, CRC Press, Inc.

Technical Working Group. 2004. *Draft Phase 1 Summary Report*, prepared for FEMA Region XI. June.

U.S. Army Corps of Engineers (USACE). 1973. General Guidelines for Identifying Coastal High Hazard Zones, Flood Insurance Study - Texas Gulf Coast Case Study. Galveston District Corps of Engineers. June.

USACE. 1975. Guidelines for Identifying Coastal High Hazard Zones. Galveston District Corps of Engineers. June.

USACE.1981. *Low Cost Shore Protection*. A Guide for Local Government Officials, U.S. Government Printing Office, Washington D.C.

USACE. 1984. *Shore Protection Manual*, Dept of the Army, Waterways Experiment Station; USACE, Vicksburg, Mississippi.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

USACE. 1986. *Storm Surge Analysis and Design Water Level Determinations*, EM 1110-2-1412, DAEN-CWH-W, Washington, D.C., April 15.

U.S. Army Corps of Engineers. 2003. *Coastal Engineering Manual*. Engineer Manual 1110-2-1100, U.S. Army Corps of Engineers, Washington, D.C. (in 6 volumes).

U.S. Army Corps of Engineers (USACE-LAD). 1991. State of California Report San Diego Region, Coast of California Storm and Tidal Waves Study, Main Report and Appendices, Los Angeles District Corps of Engineers, September.

USACE-LAD). 2003. Encinitas and Solana Beach Shoreline Feasibility Study, San Diego County, California - Coastal Engineering Appendix Without Project Conditions, Los Angeles District Corps of Engineers, August.

U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service. 1987. Hurricane Climatology for the Atlantic and Gulf Coasts of the United States (NWS 38). Silver Spring, Maryland.

van der Meer, J.W. 2002. *Wave Run-up and Overtopping at Dikes*. Technical Report, Technical Advisory Committee for Water Retaining Structures (TAW), Delft, Netherlands.

van der Meer, J.W. and Janssen J.P.F.M. 1995. Wave run-up and wave overtopping at dikes. In *Wave Forces on Inclined and Vertical Wall Structures*, pp 1–26, ed. Kobayashi, N. and Z. Demirbilek, ISBN 0-7844-0080-6, ASCE, New York.

van der Meer J.W., Tonjes, P., and J.P. de Waal. 1998. A code for dike height design and examination. *Proc. Conf. Coastlines, Structures & Breakwaters '98*, at ICE, March 1998, pp 5–21, Thomas Telford, London.

van Gent, M.R.A. 2002. Low-exceedance wave overtopping events: Measurements of velocities and the thickness of water-layers on the crest and inner slope of dikes. Delft Cluster.

Van Oorschot, J.H. and K. d'Angremond. 1968. The Effect of Wave Energy Spectra on Wave Run-Up. *Proceedings of the 11th International Coastal Engineering Conference*, American Society of Civil Engineers, Vol 2, pp 886–900.

Wade, J.E. and E.W. Hewson. 1980. *A Guide to Biological Wind Prospecting.* DOE/ET/20316-80-2. Available from National Technical Information Service, Springfield, Virginia.

Walton, T.L., et al. 1989. *Criteria for Evaluating Coastal Flood-Protection Structures. Technical Report CERC 89-15*. USACE Waterways Experiment Station. Vicksburg, Mississippi.

Walton, T.L., Jr. 1992. *Interim Guidance for Prediction of Wave Run-Up on Beaches*. *Ocean Engineering*, Vol. 19, No. 2, pp. 199–207. Pergamon Press.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.

Weberg, P. and D. Hatheway. 2002. Post-Storm Flood Hazard Verification for Hurricane Lenny in St. Croix, in: *Solutions to Coastal Disasters, American Society of Civil Engineers*, San Diego, February 24–27.

Weigel, R. 1961. *Closely Spaced Piles as a Breakwater*, Dock and Harbor Authority, London, U.K., 42(491), 150.

Wiegel, R.L. 1964 *Oceaographical Engineering*, Prentice-Hall, Englewood Cliffs, New Jersey.

Williams, B.M., Lu, C.C., and W.K. Qin. 2004. Numerical Model Using Monte Carlo Simulation Technique and Sunamura's Equation. *Journal of The American Shore & Beach Preservation Association*, Vol. 72, No.3, Summer.

All policy and standards in this document have been superseded by the FEMA Policy for Flood Risk Analysis and Mapping.
However, the document contains useful guidance to support implementation of the new standards.