

BD Technology Reference List

Year	Author(s)	Title	Reference
<i>This Reference List has been compiled from a number of other published reference lists. The specific relevance of each item to beach drainage technology has not been verified. The list has been sorted by year. Comments & contributions are welcome.</i>			
1940	Bagnold, RA	"Beach formation by waves; some model experiments in a wave tank."	<i>Journal of the Institution of Civil Engineers</i> , Paper 5237, 27-52.
1946	Grant, US	"Effect of ground-water table on beach erosion."	Abstract, <i>Bulletin of the Geological Society of America</i> 57, 1252. .
1948	Emery, KO and Foster, JF	"Water tables in marine beaches."	<i>Journal of Marine Research</i> 7,644-654.
1948	Grant, US	"Influence of the water table on beach aggradation and degradation."	<i>Journal of Marine Research</i> 7(3), 665-660.
1962	Longuet-Higgins, MS and Parkin, DW	"Sea waves and beach cusps."	<i>Geographical Journal</i> , 128, 2, 194-201.
1963	Inman, DL and Bagnold, RA	"Littoral Processes."	In: Hill, MN (ed) <i>The Sea</i> . Volume 3, Wiley-Interscience, pp.529-5552.
1964	Duncan, JR	"The effects of water table and tidal cycle on swash backwash sediment distribution and beach profile development."	<i>Marine Geology</i> 2, 186-197.
1965	Otvos, EG	"Sedimentation-erosion cycles of single tidal periods on Long Island Sound beaches."	<i>Journal of Sedimentary Petrology</i> , 35, 604-609.
1966	Moldonado, M	"For sure shores."	<i>Civil Engineer</i> 66(10), <i>American Society of Civil Engineers</i> , 57-60.
1966	Strahler, AN	"Tidal cycle of changes in an equilibrium beach, Sandy Hook, New Jersey."	<i>Journal of Geology</i> , 74, 247-268.
1967	Schwartz, ML	"Littoral zone tidal-cycle sedimentation."	<i>Journal of Sedimentary Petrology</i> , 37(2), 677-709.
1969	Harrison, W	"Empirical equations for foreshore changes over a tidal cycle."	<i>Marine Geology</i> , 7, 529—55 1.
1970	Ericksen, NJ	"Measurement of tide induced changes to water table profiles in coarse and fine sand beaches along Pegasus Bay, Canterbury."	<i>Earth Sciences Journal</i> , 4(1), 24-31.
1970	Martin, CS	"Effect of a porous sand bed on incipient sediment motion."	<i>Water Resources Research</i> , 6(4), 1162—1174.
1971	Dominick, TF; Wilkins, B; Roberts, H	"Mathematical model for beach groundwater fluctuations."	<i>Water Resources Research</i> , 7, 1626-1635.
1971	Martin, CS and Aral, MM	"Seepage force on interfacial bed particles."	<i>Journal of the Hydraulics Division. American Society of Civil Engineers</i> , 7, 1081-1100.
1973	Dean, RG	"Heuristic models of sand transport in the surf zone"	UFL/COEL 73/026, University of Florida. . "
1974	Nelson, CL and Miller, RL	"The interaction of fluid and sediment on the foreshore."	University of Chicago, Department of Geophysical Sciences. Fluid Dynamics and Sediment Transport Laboratory Technical Report 15, 175p
1974	Oldenziel, DM and Brink, WE	"Influence of suction and blowing on entrainment of sand particles."	<i>Journal of the Hydraulics Division, American Society of Civil Engineers</i> ,100 (HY7), 935-950.
1975	Loftquist, KEB	"An effect of permeability on sand transport be waves."	US Army Corps of Engineers, Coastal Engineering Research Center, Technical Memorandum 62, 74p.
1975	Machemehl, J.L; French, TJ; Huang, NE	"New method for beach erosion control."	<i>Proceedings: Engineering in the Oceans, ASCE Specialty Conference. American Society of Civil Engineers</i> , New York, 142- 160.
1975	Willets, BB and Drossos, ME	"Local erosion caused by rapid forced infiltration."	<i>Journal of the Hydraulics Division, American Society of Civil Engineers</i> , HY12, 14778-1488.

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1976	Smiles, DE and Stokes, AN	"Periodic solutions of a non linear diffusion equation used in groundwater flow theory: using a Hele-Shaw model."	Journal of Hydrology, 31(1/2), 27-35.
1976	Waddell, E	"Swash-groundwater-beach profile interactions."	In Davis, RA and Ethington, RL (eds), Beach and Nearshore Sedimentation. Tulsa, Oklahoma: SEPM, vol. 24, pp.115-125.
1979	Chappel, J; Eliot, IG; Bradshaw, MP; Lonsdale, E	"Experimental control of beach-face dynamics by watertable pumping."	<i>Engineering Geology</i> , 14, 29-41.
1980	Todd, DK	"Groundwater Hydrology."	New York: Wiley, 530p.
1982	Lanyon, JA; Eliot, IG; Clarke, DJ	"Groundwater variation during semi-diurnal spring tidal cycles on a sandy beach."	Australian Journal of Marine and Freshwater Research, 33, 377-400.
1983	Clarke, DJ and Eliot, IG	"Mean sea level and beach width variation at Scarborough, Western Australia."	Marine Geology, 51, 251—267.
1983	Packwood, AR	"The influence of beach porosity on wave uprush and backwash."	Coastal Engineering, 7, 29-40.
1983	Seelig, WN	"Understanding Beach Erosion and Accretion."	Journal of Port, Coastal and Ocean Engineering Vol 109 No.1 Feb 1983 490-494.
1984	Dean, RG and Dalrymple, R	"Water wave mechanics for engineers and scientists."	Prentice-Hall, NJ.
1985	Oldale, R. N.	"Geologic map of Nantucket and nearby islands, Massachusetts."	Map 1-1580, U.S. Geological Survey, Arlington, VA.
1986	Eliot, IG and Clarke, DJ	"Minor storm impact on the beachface of a sandy beach."	Marine Geology, 73, 6 1-83.
1986	Hansen, HK	"Coastal drain system: full scale test at Thorsminditangen."	Summary Report No. 170-83322, Danish Geotechnical Institute, Lyngby, Denmark.
1986	Kawata, Y and Tsuchiya, Y	"Applicability of sub-sand filter system to beach erosion control."	<i>Proceedings: 20th International Conference on Coastal Engineering</i> . American Society of Civil Engineers, New York, 1255-1267.
1987	Clarke, DJ and Eliot, IG	"Groundwater-level changes in a coastal dune, sea-level fluctuations and shoreline movement on a sandy beach."	Marine Geology, 77, 319—326.
1987	Dean, J and Pope, J	"The Redington Shores Breakwater Project: Initial Response."	<i>Coastal Sediments '87</i> . American Society of Civil Engineers, New York, 1369-1384.
1987	Vesterby, H	"Method of causing sedimentation of sedimentary solid material transported in a body of water such as a lake, a sea, or an ocean."	US Patent No. B 1 4,645,377.
1988	Eliot, IG and Clarke, DJ	"Semi diurnal variation in beachface aggradation and degradation."	Marine Geology, 79, 1-22.
1988	McDonald, MG and Harbaugh, AW	"A modular three-dimensional groundwater flow model."	<i>Techniques of water-resources investigations</i> . 06- A1, U.S. Geological Survey.
1989	Bruun, P	"The coastal drain: what can it do or not do?"	Journal of Coastal Research, 5(1), 123-125.
1989	Terchunian, AV	"Performance of the STABEACH System at Hutchinson Island, Florida."	<i>Proceedings: Second Annual National Beach Preservation Technology Conference</i> . Tampa, FL.
1990	Dean, RG	"Independent analysis of beach changes in the vicinity of the STABEACH System at Sailfish Point, Florida."	Report prepared for Coastal Stabilization, Inc., Rockaway, NJ. 16p.
1990	Nielsen, P	"Tidal dynamics of the water table in beaches."	Water Resources Research, 26(9), 2 127-2134.
1990	Nordstrom, KF and Jackson, NL	"Migration of swash zone, step and micro-topographic features during tidal cycles on an estuarine beach, Delaware Bay, New Jersey, USA."	Marine Geology, 92, 147-154.

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1990	Sato, M	"Underground watertable and beach face erosion."	<i>Proceedings: 22nd International Conference on coastal Engineering.</i> American Society of Civil Engineers, New York, 2645-2657.
1990	Terchunian, AV	"Performance of beachface dewatering. The STABEACH system at Sailfish Point (Stuart), Florida."	<i>Proceedings: Third Annual National Beach Preservation Technology Conference.</i> St. Petersburg, FL. 185-202.
1990	Work, PA and Dean, RG	"Even/odd analysis of shoreline changes adjacent to Florida's tidal inlets."	<i>Proceedings, 20th Coastal Engineering Conference.</i> American Society of Civil Engineers, 2522-2535.
1991	Davis, GA and Hanslow, DJ	"Beach stabilisation by drain age of the watertable."	<i>Proceedings of the 10th Australasian Conference on Coastal and Ocean Engineering</i> (draft copy).
1991	Hegge, BJ and Masselink, G	"Groundwater-table response to wave run-up: an experimental study from Western Australia."	Journal of Coastal Research, 7, 623-634.
1991	Vesterby, H	"Coastal Drain System: A new approach to coastal restoration."	<i>Proceedings: GeoCoast '91.</i> Yokohama, Japan, September 1991, 651-654. .
1992	Bowen, RA	"Beach Stabilization by Drainage of the Water Table."	Unpublished BEng (Hons) Thesis, University of Technology, Sydney.
1992	Davis, GA; Hanslow, DJ; Hibbert, K; Nielsen, P	"Gravity drainage: A new method of beach stabilization through drainage of the watertable."	<i>Proceedings of International Conference on Coastal Engineering.</i> American Society of Civil Engineers, New York, 1129-1141. 42
1992	Gourlay, MR	"Wave set-up, run-up and beach water table: Interaction between surf zone hydraulics and groundwater hydraulics."	Coastal Engineering, 17 (1992) 93-144.
1992	Heaton, KL	"Local Effects of Groundwater Table Variation on On-Shore Off-Shore Sediment Transport."	Unpublished BE (Hons) thesis, University of Western Australia, 134p.
1992	Nielsen, P	"Coastal Bottom Boundary Layers and Sediment Transport."	World Scientific Co Pte. Ltd.: Advanced Series on Ocean Engineering - Volume 4, 324p.
1992	Ogden, MR and Weisman, RN	"Beach stabilization using drains - an experimental model study."	<i>Proceedings: Coastal Sediments '91.</i> American Society of Civil Engineers, New York, 1955-1969.
1992	Oh, TM and Dean, RG	"Beach face dynamics as affected by ground water table elevations."	Research report, Coastal and Oceanographical Engineering Department, University of Florida, 35p.
1992	Ovesen, NK and Schuldt, JC	"Beach management system documentation."	Summary Report, Danish Geotechnical Institute, Lyngby, Denmark. 20p.
1992	Schuldt, JC	"Beach Management System, Hirtshals West, Coastal Drain Sea Water Intake; Hirtshals East, Coastal Drain Full Scale Test."	Document Report, Danish Geotechnical Institute, Lyngby, Denmark.
1992	Schuldt, JC	"Beach Management System, Torsminde, Coastal Drain Full Scale Test."	Document Report, Danish Geotechnical Institute, Lyngby, Denmark.
1993	Aseervatham, AM; Kang, HY; Nielsen, P	"Ground water movement in beach watertables."	Proceedings of the 11th Australian Conference on Coastal and Ocean Engineering, 2, 589-594
1993	Beachler, K	"An evaluation of alternative technologies for beach erosion control at Siasconset, Massachusetts."	Report to the Town of Nantucket, Coastal Planning and Engineering, Inc., Boca Raton, FL.
1993	Davis, GA; Hanslow, DJ; Hibbert, K; Nielsen, P	"Beach Stabilisation by Gravity Drainage, In: Bruun, P. (ad), 1993,	Proceedings of the Hilton Head Island South Carolina USA International Coastal Symposium, vol. 2, p.
1993	Herrington, TD	"Laboratory study of the STABEACH erosion control system."	Report prepared for Coastal Stabilization, Inc., Davidson Laboratory, Stevens Institute of Technology, Hoboken, NJ.

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1993	Turner, IL	"Water table outcropping on macro-tidal beaches: a simulation model."	Marine Geology, 115, 227-238.
1994	Coastal Stabilization, Inc.	"Geotechnical and hydrogeological investigation and design for the installation of a STABEACH system, Nantucket, Massachusetts, Jan. 1994."	Internal Report, Coastal Stabilization, Inc., Rockaway, NJ.
1994	Dredging and Port Construction	"Beach management system goes on trial with MAFF funding."	<i>Dredging and Port Construction</i> 21(6), 16. .
1994	Kang, HY and Nielsen, P	"Wave runup and the coastal watertable"	Conference on Hydraulics in Civil Engineering, Brisbane, 'lp. (preprint).
1994	Kang, HY; Nielsen, P; Hanslow, DJ	"Overheight due to wave runup on a sandy beach."	Proceedings 24th International Conference on Coastal Engineering, 330-331.
1994	Lenz, RG	"Beachface drainage - A tool for coastal stabilization."	<i>Proceedings: 7th National Conference on Beach Preservation Technology</i> . Tampa, Florida, February 1994, 27-52.
1994	Oh, TM and Dean, RG	"Effects of controlled water table on beach profile dynamics."	24th International Conference on Coastal Engineering, Abstracts, 234-235.
1994	Sato, M; Hata, S; Fukushima, M	"An experimental study on beach transformation due to waves under the operation of coastal drain system."	24th International Conference on Coastal Engineering, Abstracts, 236-237. ASME, New York, 2571-2582
1994	Terchunian, AV and Zaleski, AB	"Beach face Dewatering at Sailfish Point (Stuart), Florida."	Draft report, First Coastal Corporation, 12 p.
1994	Vesterby, H	"Beach face dewatering - the European Experience."	<i>Proceedings: 7th National Conference on Beach Preservation Technology</i> . Tampa, Florida, February 1994, 53-68.
1995	Burstow, S	"The affordable alternative: Beach drainage system, Newquay."	<i>Proceedings: 30th WWF Conference of River and Coastal Engineers</i> , Ministry of Agriculture, Fisheries and Food, London, England, July 1995, 10.2.1-10.2.8.
1995	Coastal Planning And Engineering	"Coastal Engineering Analysis of the Siasconset, Nantucket Island Erosion Control Project."	Unpublished first quarter report, 74p
1995	DGI	"Ground&Water"	Bulletin of the Danish Geotechnical Institute, 16p.
1995	Dredging and Port Construction	"New techniques in coastal protection, Automatic beach accretion proves its worth in the UK."	<i>Dredging and Port Construction</i> 22(11), 18-19.
1995	Li, L; Barry, DA; Pattiaratchi, CB	"Numerical modelling of beach dewatering through drainage."	Journal of Waterway, Port, Coastal and Ocean Engineering, in press.
1995	Li, L; Barry, DA; Pattiaratchi, CB	"Numerical modelling of tide-induced water table fluctuations."	Coastal Engineering, in press.
1995	Turner, IL	"Simulating the influence of groundwater seepage on sediment transported by the sweep of the swash zone across the macrotidal beaches."	Marine Geology, 125, 153-174.
1995	Turner, IL; Coates, BP; Ackworth, RI	"Tides, waves and the super-elevation of groundwater at the coast."	Journal of Coastal Research, in press.
1995	Weisman, RN; Seidel, GS; Ogden, MR	"Effect of water-table manipulation on beach profiles."	<i>Journal of Waterway, Port, Coastal, and Ocean Engineering</i> 121(2), 134-142.
1996	Baird, AJ and Horn, DP	"Monitoring and Modelling Groundwater Behaviour in Sandy Beaches."	Journal of Coastal Research, 12(3), 630 - 640
1996	Curtis, WR; Davis, JE; Turner, IL	"Independent evaluation of a beach dewatering system: Nantucket Island, Massachusetts, USA."	<i>Proceedings of 25th International Conference on Coastal Engineering</i> . Orlando, FL, September 1996.

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1996	Fessenden, F	"Field test of a beach dewatering system for accreting beach sand at Siasconset, Nantucket, MA A progress report."	<i>Proceedings of 31st Annual Northeastern Regional Meeting of the Geological Socie @ of America.</i> Buffalo, NY.
1997	Curtis, WR and Davis, JE	"Evaluation of coastal erosion management via beach dewatering at Nantucket, Massachusetts."	<i>Proceedings of Coastal Zone '97.</i> Boston, MA.
1997	Kanazawa, H; Matsukawa, F; Katoh, K; Hasegawa, I	"Experimental study on the effect of gravity drainage system on beach stabilization."	<i>Proceedings: 25 International Conference on Coastal Engineering.</i> American Society of Civil Engineers, New York, 2640-2653.
1997	Katoh, K and Yanagishima, S	"Field experiment on the effect of gravity drainage system on beach stabilization."	<i>Proceedings: 25 International Conference on Coastal Engineering.</i> American Society of Civil Engineers, New York, 2654-2665.
1997	Mann, DW	"Coastal processes associated with Nantucket's beach dewatering systems."	<i>Proceedings the 10th Annual Conference on Beach Preservation Technology.</i> St. Petersburg, FL, January 1997.
1997	Sato, M; Fukushima, T; Nishi, R; Fukunaga, M	"On the change of velocity field in nearshore zone due to coastal drain and the consequent beach transformation."	<i>Proceedings: 25th International Conference on Coastal Engineering.</i> American Society of Civil Engineers, New York, (in press).
1997	Turner, IL and Nielsen, P	"Rapid Water Table Fluctuations within the Beach Face: Implications for Swash Zone Sediment Mobility?"	Coastal Engineering 32 (1997) 45-59
1997	Turner, IL	"Groundwater and bi-monthly profile analysis, STABEACH beach dewatering system, Codfish Park, Siasconset, Nantucket Island, MA."	Report prepared for U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
1997	Turner, IL and Leatherman, SP	"Beach dewatering as a 'soft' engineering solution to coastal erosion - a history and critical review."	Journal of Coastal Research, Vol. 13, No. 4, 1997 1050-1063.
1997	Vesterby, H	"Beach Drainage - State of the Art."	Wallingford Training - Seminar on Shoreline Management Techniques, 18th April 1996
1998	Serra, J et al.	"Beach dewatering system; Results from a pilot plant installation in the Ebro Delta."	4th Meeting of the Environmental and Engineering Geophysical Society (European Section), Barcelona, Sept 1998.
1998	Curtis, WR; Davis JE	"Field Evaluation /Demonstration of a Multi-segmented Dewatering System for Accreting Beach Sand in a High Wave-Energy Environment".	USACE report: "Construction Productivity Advancement Research (CPAR) Program" CPAR-CHL-98-1 (134 pages), July 1998.
1999	Briere, C	"Etude de l'evolution d'un profil de plage en modele physique reduit sedimentologique. Etude de prefaisabilite d'un systeme gravitaire de drainage des plages."	Option Genie Cotier. Rapport de stage. DEA de Genie Civil 1999, Centre de Geomorphologie du CNRS, France. July 1999
2000	Vesterby, H	"Modelling Groundwater Flow in Beach Profiles for Optimising Stabilisation Measures."	International Coastal Symposium 2000, Rotorua, New Zealand, April 2000
2001	Li, L; Barry, DA; Pattiaratchi, CB; Masselink, G	"BeachWin: modelling groundwater effects on swash sediment transport and beach profile changes."	Environmental Modelling & Software 17 (2002) 313-320
2001	Butt, T; Russell, P; Turner, IL	"The influence of swash infiltration-exfiltration on beach face sediment transport: onshore or offshore?"	Coastal Engineering 42 (2001) 35-52
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2001	Mulvaney, HS (now Shaw, HS)	"An investigation into sandy beach stabilisation through controlled drainage."	PhD Thesis, University of Southampton, UK.
2001	K. Gunaydin, Prof. Dr. MS Kabdasi, A. Aydingakko	"The Effects Of Groundwater Level On The Coastal Stability"	Turkey Coasts 01 Conference Proceedings, 26-29 June 2001, Istanbul, pp. 579-588
2002	Hailong Li, Jiu Jimmy Jiao	"Analytical solutions of tidal groundwater flow in coastal two-aquifer system"	Advances in Water Resources 25 (2002) 417-426, www.elsevier.com/locate/adwatres

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2002	Alaee, MJ and Moghaddam, PR	"Dewatering a Solution for Shore Protection- the Caspian Sea."	Littoral 2002, The Changing Coast. EUCC / EUROCOAST, Portugal, ISBN 972-8558-09-0
2002	N Cartwright, P Nielsen, OZ Jessen	"Swash Zone And Near-Shore Watertable Dynamics"	28 th International Conference on Coastal Engineering, Coastal Eng. Res. Council – ASCE, July 8-12 2002 - Cardiff, Wales
2002	Dr C. Montori Blanch	"Sistema De Drenaje De Playas. Investigación Y Desarrollo" <i>(System of Beach Drainage. Investigation & Development)</i>	Doctoral Thesis: Departamento de Estratigrafía, Paleontología y Geociencias Marinas, Facultad de Geología, Univesidad de Barcelona
2003	Shaw, HS and Powrie, W	"The performance of beach drainage systems."	Australasian Coast & Ports Conference, Auckland, New Zealand, September 2003
2004	Gunes Goler	"Numerical Modeling Of Groundwater Flow Behavior In Response To Beach Dewatering"	M.Sc. Thesis - Graduate School of Natural & Applied Sciences, ME Technical University
2005	A. Lambert, V. Rey, O. Samat, M. Provansal,	"Watertable monitoring on a beach equipped with a dewatering system: relationship between watertable elevation and beach morphology, preliminary results."	7th IAHR congress on River, Coastal and Estuarine Morphodynamics, October 3-7, 2005, Urbana, Illinois