

Barrier beaches and dunes

(Some references taken from the Massachusetts Barrier Beach Guidelines)

Anderson, Lee G. and Christopher Kellogg. 1976. Economics of storm protection. Newark, DE: Univ. of Delaware, College of Marine Studies. Delaware Sea Grant technical report, Del-SG-2-76.

Anderson-Nichols & Co., Inc. 1980. Investigation of coastal storm and erosion damage at five sites, Marblehead, MA. Draft report, Feb. 25, 1980. unpub. (available at Mass. Coastal Zone Management).

Associated Press. 1987. Panel: Plans must be made for rising seas. Washington, DC. September 19, 1987.

Associated Press. Sea level rise could be devastating, say researchers. Philadelphia, n.d.

Baldwin, Malcolm F. and Dan H. Stoddard, Jr. 1973. The off-road vehicle and environmental quality. Washington, DC: The Conservation Foundation, 2nd ed., 61p.

Barrier islands and beaches. 1976. Technical proceedings of the 1976 Barrier Island Workshop, Annapolis MD, May 17-18, 1976. Washington, DC: The Conservation Foundation.

Baumgaertner, Imre V. 1975. A major beach erosional cycle at Robert Moses State Park, Fire Island, during the storm of 1-2 December 1974: confirmation of "grazing-swash undercutting" as a major beach erosional mechanism. In: Wolff, M.P. (ed.). N.Y.S.G.A. Guidebook, 47th Annual Meeting., Hofstra Univ., p. 259-278.

Behrens, E.W., et.al. 1975. Effect of vehicular and pedestrian traffic on backshore vegetation and dune development: beach impact study, Padre Island National Seashore. Univ. of Texas Marine Institute, 50 p. (available from: National Park Service. Southwest Regional Office. P.O. Box 728. Santa Fe, NM).

Benedict, Mark A. 1979. The preparation of an off-road recreational trail map of the Provincelands, Cape Cod: procedures, observations and management suggestions. National Park Service Cooperative Research Unit Report No. 27. Amherst: University of Massachusetts.

Bigford, Thomas E. 1987. The implications of relative sea level change on coastal decision-making. *Renewable Resources Journal*, 5(3):5-7 (Summer 1987).

Black, John A. 1987. Barrier beach management, the Long Island experience. Proceedings of the Fifth Symposium on Coastal and Ocean Management, May 26, 1987, Seattle, pp. 3209-3220.

Blodget, Bradford C. 1978. The effect of off-road vehicles on least terns and other shorebirds. National Park Service Cooperative Research Unit Report No. 26. Amherst: University of Massachusetts (NPSOSS).

Brodhead, J.M.B. and Paul J. Godfrey. 1977. Off-road vehicle impact in Cape Cod National

Seashore: disruption and recovery of dune vegetation. *Intern. Jour. Biometeorology*, 21:299-306.

Brodhead, J.M.B. and Paul J. Godfrey. 1979. Effects of off-road vehicles on plants of a northern marsh. National Park Service Cooperative Research Unit Report No. 33. Amherst: University of Massachusetts, 65p. (NPSOSS).

Brodhead, J.M.B. and Paul J. Godfrey. 1979. Effects of off-road vehicles on coastal dune vegetation in the Province Lands, Cape Cod National Seashore, Massachusetts. National Park Service Cooperative Research Unit Report No. 32. Amherst: University of Massachusetts, 212p. (NPSOSS).

Brown, Penny M. and Hilary Lambert Renwick, eds. 1983. New Jersey's barrier islands: An ever-changing public resource. Proceedings of the Barrier Islands Conference, Center for Coastal and Environment Studies, Rutgers Univ., New Brunswick, NJ, 1983.

Brown, Robert L. and A.L. Hafenrichter. 1962. Stabilizing sand dunes on the Pacific Coast with woody plants. U.S. Dept. of Agriculture. Soil Conservation Service (GPO).

Brownlow, Arthur H., ed. 1979. Cape Cod environmental atlas. Boston. Boston Univ., 62p.

Bukro, Casey. 1987. Erosion's 'dominoes' play a ruthless game. *Providence Journal*, March 2, 1987.

Campbell, W.V. and E.S. Fuzy. 1972. Survey of the scale insect effect on American beach grass. *Shore & Beach*, 40(1):18-19 (April 1972).

Cape Cod Independent. "Cape Cod Scrapbook." Sandwich, MA, Dec. 12, 1973.

Cape Cod National Seashore (CCNS). 1983. Analysis of Management alternatives for dune revegetation/stabilization with environmental assessment. Unpublished document prepared by Cape Cod National Seashore, Cape Cod, Massachusetts. 47 p.

Carlozzi, Carl, Kathryn King and William F. Newbold, Jr. 1975. Ecosystems and Resources of the Massachusetts Coast. Boston: Massachusetts Coastal Zone Management, 70 p.

Carls, E. Glenn. 1976. Recreational Use of the Coastal Zone: Effects of Crowding and Development. Proceedings of the New York State Sea Grant Conference, Syracuse, 1976, pp. 43-48.

Carlson, L.H. and P.J. Godfrey. 1989. Final Report: An ecological evaluation of human impacts on the Wasque Reservation and Cape Poge Wildlife Refuge, Edgartown, MA. Amherst, MA: Univ. Mass., Botany Dept.

Carlson, L.H. 1989. R.T. Crane Jr. Reservation human impact 1989 follow-up study. Unpublished final report. University of Massachusetts, Botany Department. Amherst, Massachusetts. 24p.

Carlson, L.H. and P.J. Godfrey. 1989. Human impact management in a coastal recreation and natural area. *Biological Conservation*. Vol. 49 pp 141-156.

- Clark, J., ed. 1976. Barrier islands and beaches. Technical Proceedings of 1976 Barrier Islands Workshop, Annapolis, Maryland, May 17-18, 1976. Washington, DC: The Conservation Foundation.
- Clark, John R. 1974. Coastal ecosystems: ecological considerations for management of the coastal zone. Washington, DC: The Conservation Foundation.
- Clark, John R. 1977. Review of major barrier islands of the United States. New York: The Barrier Islands Workshop, 1977.
- Clark, J.R. 1977. Coastal Ecosystem Management: A Technical Manual for the Conservation of Coastal Zone Resources. New York: John Wiley and Sons, Inc.
- Clark, John R. and Ross Turner. Barrier islands: a threatened, fragile resource. Conservation Foundation Letter, Aug., 1976. Washington, DC: The Conservation Foundation.
- Clayton, Gary R., Barbara S. Mayo, and Charles A. Mayo III. 1980. Coastal wetland regulations based on biological coastal processes. Proceedings of the Fifth Annual Conference of The Coastal Society. Washington, DC: The Coastal Society, pp.390 - 394.
- Clayton, Geoffrey M., John B. Harker, and Norton B. Nickerson. Effects of pedestrian traffic on survival and growth of American Beach Grass *Ammophila breviligulata*, with dune management recommendations [study period -- 1972-1974]. Tufts Univ. Dept. of Biology, n.d.
- Clemens, R.H. The role of vegetation in shoreline management. Ann Arbor, MI. Great Lakes Basin Commission, n.d., 32p.
- Cobb, Charles E. Jr. North Carolina's Outer Banks: awash in change. National Geographic Magazine, 172(4):484-513 (October 1987).
- Collier, Courtland A. Building construction on shoreline property: a checklist. Gainesville, FL: Univ. of Florida. Florida Cooperative Extension Service, Marine Advisory Program, n.d.
- Collier, Courtland A. 1976. Construction guidelines to minimize hurricane damage to shore area homes. Tallahassee, FL: Florida Dept. of Natural Resources, 29p.
- Collier, Courtland A., et.al. 1977. Guidelines for beachfront construction with special reference to the coastal construction setback line. Gainesville, FL: Univ. of Florida. State University System of Florida Sea Grant Program Report No. 20.
- Converse, Hugh. 1987. Sea level change: a Corps of Engineers perspective. Proceedings of the Fifth Symposium on Coastal and Ocean Management, May 26, 1987, Seattle, pp.4647-4651.
- Cooperative Extension Service. 1977. Stabilization of barrier dunes by vegetation. University of Massachusetts Cooperative Extension Service, Marine and Coastal Facts Newsletter, June 1977.
- Davies, DeWitt S. 1979. CZM and shore erosion: The Long Island response. Shore and beach, 47(1):16-22 (Jan. 1979).
- Davis, John H., Jr. 1975. Stabilization of beaches and dunes by vegetation in Florida.

- Gainesville, FL: Univ. of Florida. Univ. of Florida Marine Advisory Program Report No. 7, 52p.
- Dolan, R. 1972. Beach Erosion and Beach Nourishment, Cape Hatteras, North Carolina. U.S. Department of the Interior, National Park Service, Dune Stabilization Study #5.
- Dolan, Robert and Harry Lins. 1987. Beaches and Barrier Islands. *Natural History*, August 1987, pp.68-77.
- Egense, Anders and Choule J. Sonu. Assessment of beach nourishment methodologies. Proceedings of the Fifth Symposium on Coastal and Ocean Management, May 26, 1987, Seattle, pp. 4421-4433.
- Emery, K.O. 1961. A simple method of measuring beach profiles. *Limnology and Oceanography*, 6:90-93.
- Federal Emergency Management Agency. 1981. Design and construction manual for residential buildings in coastal high hazard areas. U.S. Dept. of Housing and Urban Development, Office of Policy Development and Research, 189p.
- Field, M.E. and D.B. Duane. 1976. Post-Pleistocene history of the United States inner continental shelf: significance to origin of barrier islands: *Geol. Soc. America Bull.*, 87:691-702.
- Fink L.K. and Mary Minor Smith. 1974. Stabilizing the Ogunquit dunes: is it best for the beach? Augusta, ME: Natural Resource Council of Maine.
- Fisher, J.J. 1967. Origin of barrier island chain shorelines: Middle Atlantic States. *Geol. Soc. America, Special Paper 115*, p. 66-67.
- Fisher, J.J. 1978. Barrier island formation: discussion. *Geol. Soc. Amer. Bull.*, 79:1421-1426.
- Florida Cooperative Extension Service. Beach Dune Walkover Structures. Marine Advisory Program Newsletter, Florida Cooperative Extension Service.
- French, Thomas, Jerry Machemehl, and Norden Huang. 1974. A new technique for beach erosion control. Raleigh, NC: North Carolina Univ. Center for Marine and Coastal Studies, 70p.
- Fulton, Kim. 1981. A manual for researching historical coastal erosion. Santa Cruz, CA: Univ. of Santa Cruz, Science Writing Program. Report T-CSG CP003.
- Gabriel, Stephen. 1980. Implementing a beachwatch and sand dune development program. New Jersey Dept. of Environmental Protection, Div. of Coastal Resources, Bureau of Coastal Planning and Development, 31p.
- Garbish, Edgar W., Jr. et.al. 1975. Biotic techniques for shore stabilization. *Estuarine Research*, 11:405-426.
- Gares, Paul A., Karl F. Nordstrum, and Norbert P. Psuty. 1979. Coastal Dunes: Their Function, Delineation and Management. New Brunswick, NJ: Rutgers University, Center for Coastal and Environmental Studies, 112 pp.
- Geological Society of America, Committee on Environment and Public Policy. Impact of barrier

island development-geologic problems and practical solutions. Boulder, CO: Geological Society of America, n.d.

Giese, Graham S. 1978. The barrier beaches of Chatham, Massachusetts. Provincetown, MA: Provincetown Center for Coastal Studies, Tech Report 78-21, 38p.

Geise, G.S., D.G.Aubrey and P.Zeeb. 1987. Passive Retreat of Massachusetts Coastal Upland due to Relative Sea-level Rise. Boston: Massachusetts Coastal Zone Management Office, Massachusetts Coastal Submergence Program, 172 p.

Geise, Graham S. and Rachel B. Geise. 1973. How sand erodes the back; Why we can't stop erosion; and Man's attempts to forestall the ocean's erosion (three part series). Provincetown Advocate, August 2, 9, and 16, 1973.

Giese, Graham S. and Rachel B. Giese. 1974. The eroding shores of outer Cape Cod. Orleans, MA: The Association for the Preservation of Cape Cod, Informational Bulletin No. 5.

Godfrey, Melinda M. and Paul J. Godfrey. Coastal plant ecology literature list. Amherst, MA: Univ. of Mass., Dept. of Botany, n.d. 68p.

Godfrey, Paul J. 1976. Barrier beaches of the east coast. *Oceanus*, 19(5):27-40.

Godfrey, Paul J. Management guidelines for parks on barrier beaches. *Parks: International Journal of National Parks, Historic Sites and Other Protected Areas*, 2(4):5-10 (Jan-Mar 1978).

Godfrey, Paul J. 1981. Review of Off-Road Vehicle Use at Cape Cod National Seashore, pp. 1-24.

Godfrey, Paul J. and Mark Benedict. 1978. The preparation of an off-road recreational trail map of the Provincelands, Cape Cod: procedures, observations, and management suggestions. Amherst, MA: Univ. of Mass. National Park Service Cooperative Research Unit, Report No. 27 (NPSOSS).

Godfrey, Paul J., Mark A. Benedict, and Susan Swartz. 1977. Natural Resource Management Plan for Cape Cod National Seashore. Amherst, MA: Univ. of Mass., National Park Service Cooperative Research Unit.

Godfrey, Paul J. and M.M. Godfrey. 1974. An ecological approach to dune management in national recreation areas of the United States East Coast. *Int. J. Bioclim. Biomet.*, 18:101-110.

Godfrey, Paul J. and M.M. Godfrey. 1976. Barrier Island Ecology of Cape Lookout National Seashore and Vicinity, North Carolina. National Park Service Science Mon. Series No. 9, 160p.

Godfrey, Paul J. and M.M. Godfrey. 1980. Ecological effects of off-road vehicles on Cape Cod. *Oceanus*, 23(4):56-67.

Godfrey, Paul J., Stephen P. Leatherman, and P.A. Buckley. 1978. Impact of off-road vehicles on coastal ecosystems. Proceedings of Coastal Zone '78, March 14-16, 1978. San Francisco: American Society of Civil Engineering, pp. 581-600.

Godfrey, Paul J., Stephen P. Leatherman, and P.A. Buckley. 1980. ORV's and barrier beach degradation. *Parks*, 5(2):5-11.

Godfrey, Paul J., S.P. Leatherman, and R. Zaremba. 1979. A geobotanical approach to classification of barrier beach systems. In: Leatherman, S.P., ed. *Barrier Islands*. New York: Academic Press, p. 99-126.

Godfrey, Paul J. and Juergen Reinhardt. 1983. Geological and ecological variations as factors in human use and development of coastal barriers. *Proceedings of the Third Symposium on Coastal and Ocean Management*, June 1, 1983, San Diego, 25p.

Gunyakti, Ali. 1983. Beach preservation by means of offshore submerged mound of dredged material. *Proceedings of the Fifth Symposium on Coastal and Ocean Management*, May 26, 1983, Seattle, pp. 2461-2471.

Hamer, D. C. Belcher, and C. Miller. 1992. Restoration of sand dunes along the Mid-Atlantic coast. U. S. Department of Agriculture, Soil Conservation Service (Now referred to as the Natural Resources Conservation Service), Somerset, New Jersey. 18 p.

Hamilton, James A. 1979. Effects of off-road vehicles on the sediments of Hatches Harbor, Cape Cod National Seashore, Massachusetts. National Park Service Cooperative Research Unit Report No. 30. Amherst, MA: University of Massachusetts, 23p. (NPSOSS).

Hankin, Alan L., Lucille Constantine, and Steve Bliven. 1985. Barrier beaches, salt marshes, and tidal flats: an inventory of the coastal resources of the Commonwealth of Massachusetts. Lloyd Center for Environmental Studies and the Massachusetts Coastal Zone Management Program, 27 p.

Harris, Lee E. 1987. Evaluation of sand-filled containers for beach erosion control: an update of the technology. *Proceedings of the Fifth Symposium on Coastal and Ocean Management*, May 26, 1987, Seattle, pp. 2479-2487.

Hayes, M.O. and J.C. Boothroyd. 1979. Storms as modifying agents in the coastal environment. In *Coastal Environments: NE Massachusetts and New Hampshire*. Univ. of Mass. Contrib. No. 1, p. 245-265.

Hoyt, J.W. 1967. Barrier island formation. *Geol. Soc. America Bull.*, 78:1125-1136.

Humphries, S.M. and J.R. Benoit. 1980. Barrier beach protection in Massachusetts. *Proceedings of Coastal Zone 80*, pp.1809-1829.

Jagschitz, J.A. and R.S. Bell. 1966. Restoration and retention of coastal dunes with fences and vegetation. *Univ. of Rhode Island Agricultural Experiment Station Bulletin 382*. Kingston, RI: Univ. of Rhode Island, 43p.

Jagschitz, J.A. and R.C. Wakefield. 1971. How to build and save beaches and dunes. *Univ. of Rhode Island Marine Leaflet Series, No. 4*. Kingston, RI: Univ. of Rhode Island.

Johnson, Lee and Wolf Bauer. 1987. Beach stabilization design. *Proceedings of the Fifth Symposium on Coastal and Ocean Management*, May 26, 1987, Seattle, pp. 1432-1445.

- Jones, Robert S. 1987. Barrier island reconstruction in Louisiana. Proceedings of the Fifth Symposium on Coastal and Ocean Management, May 26, 1987, Seattle, pp. 3248-3254.
- Journal-Bulletin Staff. 1987. A move to protect more of the nation's coastline. Providence Journal, March 24, 1987, p. A1.
- Kaufman, Wallace and Orrin Pilkey. 1979. The Beaches are Moving. Garden City, NY: Anchor Press, 326p.
- Kelley, J.T., A.R. Kelley, and O.H. Pilkey. Living with the Coast of Maine. Duke University Press. Durham, North Carolina.
- Knutson, Paul L. 1980. Experimental dune restoration and stabilization, Nauset Beach, Cape Cod, Massachusetts. U.S. Army Corps of Engineers, Coastal Engineering Research Center, Technical Report TP80-5. Fort Belvoir, VA: C.E.R.C., 42p. (CERC).
- Knutson, Paul L. 1977. Planting guidelines for dune creation and stabilization. U.S. Army Corps of Engineers, Coastal Engineering Research Center, Technical Aide No.77-4. Fort Belvoir, VA: C.E.R.C., 26p.
- Komar, P. 1976. Beach Processes and Sedimentation. Prentice-Hall Publishing Co.
- Lane, Arnold C. 1977. Stabilization of barrier dunes by vegetation. Marine Coastal Facts No. 2. Cambridge, MA: Univ. of Mass./Mass. Institute of Technology Sea Grant Program,. 2p. (MITSG).
- Leatherman, Stephen P. 1979. Barrier Island Handbook. Amherst, MA: Univ. of Mass. National Park Service Cooperative Research Unit, 92p. (reprinted 1988).
- Leatherman, S. 1981. Overwash processes. Benchmark Papers in Geology. Stroudsburg, PA: Hutchinson and Ross, Inc., 376p.
- Leatherman, Stephen P. and Paul J. Godfrey. 1979. The impact of off-road vehicles on coastal ecosystems in Cape Cod National Seashore: an overview. National Park Service Cooperative Research Unit Report No. 34. Amherst, MA: University of Massachusetts, 34p. (NPSOSS).
- Leatherman, Stephen P., Paul J. Godfrey, and P.A. Buckley. 1978. Management strategies for national seashores. Proceedings of the Symposium on Technical, Environmental, Socioeconomic and Regulatory Aspects of Coastal Zone Planning & Management, San Francisco, CA, March 14-16, 1978, pp. 322-337.
- Leatherman, Stephen P. and Linda L. Long. 1977. An investigation of the effects of vehicular traffic on the beach face. Univ. of Mass. National Park Service Cooperative Research Unit Report No. 31. Amherst, MA: Univ. of Mass., 13p. (NPSOSS).
- Leatherman, Stephen P. and Alan J. Steimer. 1979. Recreational impacts on foredunes: Assateague Island National Seashore. Proceedings of the Second Scientific Conference in the National Parks, San Francisco, CA, 16 pp.

Lemonick, Michael D. 1987. Where's the beach?, America's vanishing coastline. *Time* 130(6):38-47 and cover (August 10, 1987).

Lewis, James C. and Elaine W. Bunce, eds. 1980. Rehabilitation and creation of selected coastal habitats: proceedings of a workshop. Fish and Wildlife Service Publication FWS/OBS-80/27. Washington, DC: U.S. Dept. of Interior, Fish and Wildlife Service, Office of Biological Services, 162p. (NCET).

Lewis, Roy R. III, ed. 1982. Creation and Restoration of Coastal Plant Communities, chapters 1 and 2. Boca Raton: CRC Press, Inc. 204 p.

MacIvor, L. H. 1986. Management, habitat selection and population dynamics of Piping Plovers on outer Cape Cod, Massachusetts. Report to Massachusetts Cooperative Wildlife Research Unit.

Madore, C.A. and Stephen P. Leatherman. 1981. Dune stabilization of the Province Lands, Cape Cod National Seashore, Massachusetts: final report. Univ. of Mass. National Park Service Cooperative Research Unit Report No. 52. Amherst, MA: Univ. of Mass., 59p.

Massachusetts Coastal Zone Management (MCZM). 1994. Guidelines for Barrier Beach management in Massachusetts; A report of the Massachusetts Barrier Beach Task Force. Massachusetts Coastal Zone Management Office. 100 Cambridge Street, Boston, Massachusetts, 02202. 265p.

Massachusetts Coastal Zone Management Office. Living by the sea: a Massachusetts citizens' handbook for coastal zone management planning. Boston: Massachusetts Coastal Zone Management Office; n.d., 44p.

Massachusetts Coastal Zone Management Office. 1982. Massachusetts barrier beaches. Boston: Massachusetts Coastal Zone Management Office, 57p.

Massachusetts Coastal Zone Management Office. 1986. Planning for a rising tide. *Coastlines: CZM Newsletter*, August 1986, p.1.

Massachusetts Coastal Zone Management Office. 1985. The way to the sea: methods for Massachusetts communities to provide public access to the coast. Boston: Massachusetts Coastal Zone Management Office, 39p.

Massachusetts Coastal Zone Management Office. 1986. Wetlands Restriction Program. *Coastlines: CZM Newsletter*, November 1986, p.1.

Massachusetts Department of Environmental Management. 1988. Sandcastles and Sandpipers. Boston: Department of Environmental Management, 76p.

Massachusetts Executive Office of Environmental Affairs. 1980. 310 CMR 10.27: Coastal Beaches, CMR 10.28: Coastal Dunes, C2MR 10.29, Barrier Beaches. Department of Environmental Quality Engineering Regulations, 12:210.9-210.13.

Mauriello, Mark N. and Susan D. Halsey. 1987. Dune building on a developed coast: Lavallette, N.J. Proceedings of the Fifth Symposium on Coastal and Ocean Management, May 26, 1987,

Seattle, pp. 1313-1327.

Melvin, S.M., C.R. Griffin, and L.H. MacIvor. 1991. Recovery strategies for piping plovers in managed coastal landscapes. *Coastal Management*: 19:21-34. Project Review, 12p.

Nichols, Maynard, Carol Cerco, Gilberto Cintron, and Ramon Martinez. 1987. Coastal dunes for protection and sand resources. *Proceedings of the Fifth Symposium on Coastal and Ocean Management*, May 26, 1987, Seattle, pp. 1302-1312.

Niedoroda, Alan W. 1975. Geomorphological effects of ORVs on coastal systems of Cape Cod, Massachusetts. *National Park Service Cooperative Research Unit Report No. 17*. Amherst: University of Massachusetts, 100p.

Office of Technology Assessment (OTA). 1995. Technologies to Benefit Shoreline property and rare species habitat: An Atlantic coast example. *Congress of the United States; Office of Technology Assessment Environment Program*. Washington, D.C. 46 p.

Olsen, Stephen B. and John A. Jagschitz. Anchoring the sand by a network of little cables, the beachgrass holds the dunes. *Univ. of Rhode Island Marine Bulletin No. 19*. Kingston, RI: Univ. of Rhode Island, Coastal Resources Center, n.d. (SG).

Pilkey, Orrin H. and Tonya D. Clayton. 1987. Beach replenishment: the national solution. *Proceedings of the Fifth Symposium on Coastal and Ocean Management*, May 26, 1987, Seattle, pp. 1408-1419.

Primack, Mark. 1980. ORVs in our national seashores. *National Parks and Conservation Magazine*, 54(11):4-7 (Nov. 1980).

Provincetown Center for Coastal Studies. 1980. Shoreline processes in the vicinity of the eastern entrance to the Cape Cod Canal. Provincetown, MA: Provincetown Center for Coastal Studies, 78p.

Reckendorf, Frank, Don Leach, Robert Baum and Jack Carlson. 1987. Stabilization of west coast sand dunes. *Proceedings of the Fifth Symposium on Coastal and Ocean Management*, May 26, 1987, Seattle, pp. 1328-1342.

Resources for Cape Ann. First aid for damaged beaches. Gloucester, MA: Resources for Cape Ann, n.d.

Resources for Cape Ann. Protecting Gloucester's dunes: their condition today, recommendations for tomorrow. Gloucester, MA: Resources for Cape Ann/Mass. Audubon Society, n.d.

Rolbein, Seth. 1987. Nature takes it's course: the ocean is reclaiming Chatham's shore and there's nothing residents can do but watch. *Boston Sunday Herald Magazine*, July 5, 1987, p. 8.

Sargent, William. 1987. Barrier break: Chatham responds to new break in it's protective barrier beach system. *Cape Cod Life*, August/September 1987, pp.80-85.

Savage, R.P. and W.W. Woodhouse, Jr. 1986. Creation and stabilization of coastal barrier dunes. *American Society of Civil Engineers, Proceedings of the Eleventh Conference on Coastal*

Engineering, London, September 1986.

Scheinkman, James J. and Peter M. Byrne. 1979. Inventory of the barrier islands and barrier beaches of the states of New Hampshire, Massachusetts, Rhode Island, and Connecticut. New York: Open Space Institute.

Seltz, Johanna. The Dune Book: How to Plant Grasses for Dune Stabilization. Univ. of North Carolina Sea Grant Publications. Raleigh, NC: Univ. of North Carolina, n.d.

Shambaugh, Julie. 1985. A Beach Access Handbook for Local Governments. Raleigh, NC: North Carolina Department of Natural Resources and Community Development, 74p.

Shepard, F.P. 1960. Gulf coast barriers. In Shepard, F.P. et al, eds. Recent Marine Sediments, Northwest Gulf of Mexico. Tulsa, OK: AAPG, pp. 338-344.

Sheridan, David. 1979. Off-Road Vehicles on Public Land. Washington, DC: Council on Environmental Quality, 84p. (GPO).

Sleeper, Peter B. 1986. Bay State coast feels pressures of popularity; overbuilding, crowding among growing problems. Boston Globe, August 10, 1986.

Smith, Lester B., Jr., ed. 1983. Barrier Beach Management Sourcebook. Boston: Massachusetts Coastal Zone Management Office, Boston, 48p.

Stauble, Donald K. and Steven L. DaCosta. 1987. Evaluation of backshore protection techniques. Proceedings of the Fifth Symposium on Coastal and Ocean Management, May 26, 1987, Seattle, pp. 3233-3247.

Steiner, Alan J. and Stephen P. Leatherman. 1979. An annotated bibliography of the effects of off-road vehicle and pedestrian traffic on coastal ecosystems. Univ. of Mass. National Park Service Cooperative Research Unit Report No. 45. Amherst, MA: Univ. of Mass., 87p. (NPSOSS).

Stone, Katherine E. and Benjamin S. Kaufman. 1987. Sand rights: a legal system to protect the shores of the sea. Proceedings of the Fifth Symposium on Coastal and Ocean Management, May 26, 1987, Seattle, pp. 4718-4737.

Strauss, E. 1990. Reproductive success, life history patterns, and behavioral variation in a population of piping plovers subjected to human disturbance. Dissertation, Tufts Univ. 143pp.

Sturgill, Jay. 1987. Restoration of a construction scarred dune. Proceedings of the Fifth Symposium on Coastal and Ocean Management, May 26, 1987, Seattle, pp. 4518-4530.

Swift, D.J.P. 1975. Barrier island genesis: evidence from the central Atlantic shelf, eastern U.S.A. Sed. Geology, 14:1-43.

Thompson, Dick. 1987. Swept away at Chatham. Time, 130(6):43 (August 10, 1987).

Thorbahn, Peter F. 1987. Barrier beach: nature's way. Cape Cod Life, August-September 1987, p. 71.

Thorbahn, Peter F. 1987. Barrier beach: the shifting sands reveal a history of their own. Cape Cod Life, August-September 1987, p. 71.

U.S. Army Corps of Engineers, Coastal Engineering Research Center. 1984. Shore Protection Manual, 2 vols., 4th edition. Washington, DC: U.S. Government Printing Office, 1222p.

U.S. Army Corps of Engineers, Jacksonville District. Our new beach, how it works. Dade County Beach Erosion Control and Hurricane Protection Project, n.d., 20p.

U.S. Army Corps of Engineers, New England Div. 1979. A report on the access along the coastline from Orleans, MA to New Castle, New Hampshire. Waltham, MA: U.S. Army Corps of Engineers, New England Div.

U.S. Department of Agriculture, Soil Conservation Service. 1963. Building, planting and maintaining coastal sand dunes. Beltsville, MD: U.S.D.A. Soil Conservation Service.

U.S. General Accounting Office. 1992. Coastal Barriers -- Development Occuring Despite Prohibitions Against Federal Assistance: Report to the Committee on Environment and Public Works, US Senate, July 1992. (GAO/RCED-92-115)

Walton, Todd L. Jr. and Thomas C. Skinner. 1976. Beach dune walkover structures. Florida Sea Grant Publication SUSF-SG-76-006. Gainesville FL: Florida Cooperative Extension Service, Marine Advisory Program, 13p.

Wheeler, Nancy R. 1978. Effects of off-road vehicles on the infauna of Hatches Harbor, Cape Cod National Seashore. National Park Service Cooperative Research Unit Report No. 21. Amherst: University of Massachusetts.

Wheeler, Nancy. 1979. Effects of off-road vehicles on the infauna of Hatches Harbor, Cape Cod National Seashore. National Park Service Cooperative Research Unit Report No. 28. Amherst: University of Massachusetts, 47p. (NPSOSS)

Woodhouse, W.W., Jr. 1978. Dune building and stabilization with vegetation. U.S. Army Corps of Engineers, Coastal Engineering Resource Center Special Report 3. Ft. Belvoir, VA: C.E.R.C., 112p.

Woodhouse, W.W., Jr., E.D. Seneca, and S.W. Broome. 1976. Ten years of development of man-inhabited coastal barrier dunes in North Carolina. North Carolina State Univ. Agriculture Experimental Station Bulletin 453. Raleigh, NC: North Carolina State Univ., 53p.

Woodworth, J.B. and E. Wigglesworth. 1934. Geography and Geology of the Region including Cape Cod, the Elizabeth Island, Nantucket, Martha's Vineyard No Mans Land and Block Island, Memoirs of the Museum of Comparative Zoology, Harvard College, Vol. 62.

Yasso, W.E. and E.M. Hartman, Jr. 1975. Beach forms and coastal processes. MESA New York Bight Atlas Monograph 11. Albany, NY: New York Sea Grant Institute, 51p.

Zaremba, Robert, Paul J. Godfrey, and Stephen P. Leatherman. 1979. The ecological effects of off-road vehicles on the beach/backshore drift line zone in Cape Cod National Seashore,

Massachusetts. National Park Service Cooperative Research Unit Report No. 29. Amherst:
University of Massachusetts, 67p. (NPSOSS)