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PHOTO CREDIT: HANY ELWANY

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Additional Keywords: Mississippi River Delta, sediment management, barrier island restoration, marsh creation, coastal erosion.

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Tom D. Shand

Additional Keywords: Artificial surfing reef, wave pre-conditioning, wave breaking, design process, community expectation.

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Additional Keywords: Wetland, small tidal channels, lagoons, restoration, enhancement, ecosystem, colonization, benthic, organism, tidal network, tidal creeks.

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Additional Keywords: Regional Sediment Management, Rhode Island, sediment budget.


Reviewed by Orville Magoon

COASTAL OBSERVATIONS: PERFORMANCE OF COASTAL STRUCTURES IN THE MARCH 2011 TSUNAMI, JAPAN

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Additional Keywords: Bogue Inlet, channel relocation, beach erosion.
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Additional Keywords: Opportunistic beach fill, Sand Compatibility and Opportunistic Use Program, beach erosion, beach nourishment, turbidity, regional general permits, California Coastal Sediment Management Workgroup, sediment compatibility.

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N. Kumar, G. Voulgaris, J. C. Warner
Additional Keywords: Surf zone, ROMS, SWAN, longshore current, sediment transport, tidal variability

### EFFECTS OF NATURAL AND HUMAN FORCING ON MESOSCALE SHORELINE DYNAMICS OF SAINT-MICHEL-en-GRÈVE BAY (BRITANY, FRANCE)

Serge Suanez, Pierre Stéphan
Additional Keywords: Sediment budget, monitoring; shoreline changes; dune erosion, storm surges, human forcing.

### ECONOMIC ANALYSIS OF RECONFIGURING THE LONG BEACH BREAKWATER

Philip G. King, Aaron McGregor, Russell Boudreau
Additional Keywords: Beach recreation, 905(b), USACE, non-market value, economic impact, Long Beach.

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Julie D. Rosati
Reprinted from Shore & Beach, Volume 77, Number 2, Spring 2009.

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Overall (and East Coast) winner: “Anastasis Beach” by Paul Dorling, taken August 2009.
Caribbean winner: “For San Cristóbal shoreline” by John Rose, taken September 2010 at the shoreline fronting Fort San Cristóbal and the capitol building of San Juan, Puerto Rico.
Pacific Coast/Hawaiian Islands winner: “Tsunami scour on tree” by Hermann Fritz, taken 26 November 2009 at Niutotoputapu Island, Kingdom of Tonga.
Gulf of Mexico winner: “Pelican Bay Beach, on a calm summer afternoon” taken by Matthew Starr on 17 August 2009 at Pelican Bay Beach in Naples, Florida.
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EDISTO BEACH, SC, AT LOW TIDE LOOKING NORTHEAST IN FEBRUARY 2006
(INSET) BEFORE NOURISHMENT, AND FEBRUARY 2007, NINE MONTHS
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TERMINATED AT THE FOURTH GROIN FROM THE END OF THE FIELD (RIGHT
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Additional Keywords: Coastal restoration, bacteria, ecosystems, erosion, mapping, management, native plants, planning, sewage, streams, sustainability, watershed, wetlands.

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A BRIEF HISTORY OF HEADLAND BREAKWATERS FOR SHORE PROTECTION IN CHESAPEAKE BAY, USA

C. Scott Hardaway, Jr., James R. Gunn

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Additional Keywords: Hook-shaped bay, seawall, beach elevation, beach retreat.

Additional Keywords: Nourishment, sand retention, coastal structures, San Onofre, coastal construction, beach monitoring.

Additional Keywords: Headland bays, breakwaters, Chesapeake Bay, shore protection, pocket beach.
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Additional Keywords: Risk, exposure, vulnerability, land use planning, hazard management

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Linda K. Lent, Brian K. Harper, Mark B. Gravens

Additional Keywords: Hurricanes, restoration project; beach nourishment; Martin County, FL; armoring; emergency dunes; Beach-fx.

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Additional Keywords: Analytical solutions; beach nourishment; coastal engineering; numerical modeling; storms; water waves.

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WRECK OF HMCS PROTECTOR, BUILT IN 1884, SUNK IN 1943, AND NOW PROTECTING THE SHORE AGAINST EROSION ON HERON ISLAND ON THE GREAT BARRIER REEF, AUSTRALIA

Photograph by H. Chanson, 27 December 2001

ASBPA Fall Conference, October 9-11, 2006, “Enhancing Our Nation’s Coast Through Science, Technology & Education,” Ocean Place Resort & Spa, Long Branch, New Jersey

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CENTER: THE MOUTH OF WAIMEA RIVER, KAUAI, HAWAII, LOOKING WESTERLY FROM TOP OF BLUFF (AT SITE OF RUSSIAN FORT). DARK SAND IS DETRITUS FROM THE RIVER. LOWER LEFT: ABRUPT TRANSITION FROM DARK SAND TO LIGHT COLOR SAND, A LITTLE WEST OF O’OMANO POINT, KEKAHA, KAUAI, HAWAII; FROM HELICOPTER, LOOKING NORTHWISTERLY. ALL PHOTOS BY ROBERT L. WEIGEL.

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Photo, NOAA – National Oceanic & Atmospheric Administration. The three insert photos are credited to Florida Department of Environmental Protection

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Philip King and Douglas Symes

Additional Keywords: Economic benefits, recreation, tourism, beaches, erosion.

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Jonathan C. Allan and Paul D. Komar

Additional Keywords: El Niño, wave climate, shore protection, cobble beaches, dynamic revetments, artificial dunes, coastal management.

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Jamie M. Bonisteel, Michelle Peters-Snyder, and Gary A. Zarillo

Additional Keywords: Barrier island morphology, inlet migration, spit formation, sediment transport, littoral drift, regional sediment management, geographic information system.

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Additional Keywords: Beach, buildings, remote sensing, structures.

Monitoring morphology and currents at the Hatteras breach.

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Additional Keywords: ADCP, barrier island, bathymetry, Hurricane Isabel, inlet, Pamlico Sound, survey.
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Courtesy of the Seattle District, November 2001

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Photograph courtesy of the U.S. Army Engineer District, Wilmington, NC

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Additional Keywords: Calumet Harbor, Lincoln Township, Michigan, St. Joseph Harbor

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Additional Keywords: Barrier, inlet, storm, washover, ground penetrating radar

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Additional Keywords: Bodie Island, Pea Island, Outer Banks, Appendix: Federal Agencies Reach Consensus Ending Development of the Oregon Inlet Jetty Proposal

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Additional Keywords: Critical erosion, National Shoreline Study, shoreline change, National Shoreline Management Study

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Additional Keywords: Hurricane Isabel, surfing, recreation

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Photograph courtesy of U.S. Army Engineer District, Philadelphia

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Additional Keywords: Accretion, alongshore transport, beach, beach nourishment, Bruun rule, bulkheads, coastal policy, coastal zone management, dams, datum (vertical), erosion, harbors (shoreline), insurance (Physical), mining beaches, pocket beaches, property rights, revetments, sand bypassing, sand rights, sand trapping, sand waves, sea level change, shore protection, shore types, shoreline recession, shorelines, subsidence, tidal inlets

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Photographs courtesy of U.S. Army Engineer District, Galveston

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Additional Keywords: Sediment transport; Galicia; Vigo Ria; depth of closure

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Additional Keywords: Ocean Beach, San Francisco, California; Great Highway Seawall

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Additional Keywords: Hurricane mitigation, Hurricane Opal, Coastal Construction Control Line (CCCL), FEMA, storm vulnerability

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Additional Keywords: High water line; coastal erosion; FRF, Duck, North Carolina

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Additional Keywords: Changes to improve usefulness of S&B, instructions for submitting manuscripts

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Additional Keywords: Coastal engineering; coastal zone management

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Additional Keywords: Humboldt Bay, California, Port Sines, Portugal, Oranjemund, Namibia, Capitola, California, Santa Cruz, California, Crescent City, California, Seabrook Island, South Carolina, Seadrift, California

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Additional Keywords: Beach nourishment, coastal engineering structures, impacts of armoring

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Additional Keywords: WIS 1956-75 hindcasts, WIS 1976-95 hindcasts

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  - Courtesy of CENTURY/von Oesen Engineers, photo by Robert H. Goslee

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  - Additional Keywords: Federal Navigation Project, South Beach, beach fill, erosion, tube groins

- **THE MODELING OF PROCESSES AND MORPHOLOGY IN THE COASTAL ZONE – REFLECTIONS ON THE MATURITY OF OUR SCIENCE**
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   Additional Keywords: Robert Moses State Park, depths and measurements, sediment movement through walkovers

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Photograph courtesy of Water Resources Center Archives, Univ. of California at Berkeley

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Additional Keywords: O'Shaughnessy Seawall, Waddell Bluffs, Del Monte Beach, Beach Drive

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Additional Keywords: Title to lands within the coastal zone, determination of tidal boundaries, public access rights, private littoral rights, leasing and regulation of coastal zone lands and waters

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May 1986 photo courtesy of CERC and LGS

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Los Angeles County Master Shore Plan – Supervisors adopt nine-point plan to acquire and develop almost entire county shoreline for public use.

Protection at Long Branch, New Jersey – continuous bulkhead work started with funds made available by state, city, and county.

Colonel Brown recalled.

Beach erosion and port developments – an address before the American Association of Port Authorities, Long Beach, California, September 1940.

J. Spencer Smith

Michigan’s stable beaches – equilibrium and geological maturity of shore protects abundant sands of southern Peninsula resorts.

O. F. Evans

Shore line formation by currents – Leypoldt suggests littoral and attendant eddy currents determine shore pattern independent of other factors.

Harry Leypoldt

Report on St. Simon Island Studies – Beach Erosion Board recommends bulkhead and single groin for protection of Georgia Shorefront.

California County preserves oceanfront – purchases beaches, lake, and island to protect beauty spots shoreward of new coastal highway.

J. B. Woodson

The need for a hydrologic research program.

Beach Erosion Board.

Colonel Bragdon appointed.

New Marine Research Quarterly.

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