

# Shore & Beach

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THIS IS PETIT BOIS ISLAND, MISSISSIPPI, IN THE GULF ISLANDS NATIONAL SEASHORE. THE DARK OBJECT IN THE FOREGROUND OF THE COVER PHOTOGRAPH IS A RELATIVELY VERY LARGE "TARBALL" ON THE BEACH OVER A WIDE (THE YELLOW TRASH TO THE RIGHT IS A LARGE STYOF OAM CHICKEN TRAY). THE NATIVE SANDS ARE THE LIGHTER COLOR IN THE STORM BERM SHOWN IN THE FAR BACKGROUND. SOME OF THE OTHER DARKER COLORS IN THIS PHOTOGRAPH ARE SMALLER PIECES OF OIL, BUT SOME OF THEM ARE NATURALLY OCCURRING ORGANICS IN THE BACKBEACH AREA. A MORE TYPICAL SIZE OF TARBALL ON THIS BEACH IS THE DIAMETER OF A DIME OR NICKEL; MANY OF THOSE ARE IN THE BACKGROUND OF THIS PHOTOGRAPH ON THE BEACH. PHOTOGRAPH TAKEN 29 JUNE 2011 BY SCOTT DOUGLASS..... COVER

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Additional Keywords: Dauphin Island, Alabama, sand dunes, Deepwater Horizon, BP, Florida panhandle, overwash, oil spill, beach profile.

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Additional Keywords: Spill response, boom, remediation, inlets, contingency planning, contaminated sediments.

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Additional Keywords: Sandy beach, erosion, hurricane effects, intertidal ecology, macrobenthos, disturbance.

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Additional Keywords: Beach change, littoral cell, sediment transport, beach nourishment, coastal engineering, ENSO, Pacific Decadal Oscillation, Southern California Bight.

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<b>XQNWOG'9;"</b>	<b>UWO OGT'4233"</b>	<b>PWODGT'5"</b>
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AN AERIAL VIEW OF THE SAN DIEGUITO LAGOON IN DEL MAR, CA, ABOUT 38 KILOMETERS NORTH OF THE SOUTHERNMOST BOUNDARY OF THE CITY OF SAN DIEGO. THIS TIDAL WETLAND HAS BEEN SUBJECT TO SUBSTANTIAL IMPACTS DUE TO URBANIZATION, AND IS THE SITE OF A LARGE RESTORATION PROJECT BY SOUTHERN CALIFORNIA EDISON COMPANY AND ITS PARTNERS, SDGE AND THE CITY OF RIVERSIDE, WHOSE GOAAL IS TO PROVIDE MARINE FISH NURSERY HABITAL TO SERVE AS OUT-OF-KIND MITIGATION FOR FISH LOSSES CAUSED BY THE ENTRAIMNET OF FISH EGGS AND LARVAE BY THE SAN ONOFRE NUCLEAR GENERATING STATION, SAN ONOFRE, CA.

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

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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.

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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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Additional Keywords: Surf zone, ROMS, SWAN, longshore current, sediment transport, tidal variability

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Additional Keywords: Beach recreation, 905(b), USACE, non-market value, economic impact, Long Beach.

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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 Niuatoputapu 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.

Pacific Coast/Alaska winner: “A Perceivable Pace of Progradation” taken by Nicole Kinsman on 16 July 2010 at Kivalina, Alaska.

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    An equation was misprinted in the last issue of Shore & Beach (Volume 78,  
    No. 4/Volume 79, No. 1) on page 27, Figure 1 of the paper "A Brief History of  
    Headland Breakwaters for Shore Protection in Chesapeake Bay, USA," by Hardaway  
    and Gunn. The corrected figure is shown here.

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EDISTO BEACH, SC, AT LOW TIDE LOOKING NORTHEAST IN FEBRUARY 2006  
(INSET) BEFORE NOURISHMENT, AND FEBRUARY 2007, NINE MONTHS  
AFTER NOURISHMENT. THE OCEANFRONT HAS BEEN STABILIZED BY A  
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EDGE OF IMAGE). EXCESS SAND HAS FLOWED FREELY TO DOWNCOAST  
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    Additional Keywords: Beach retention structure, longshore sediment transport, hook-shaped bay, seawall, beach erosion,  
    beach retreat.  
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GENERATING STATION, 1964-1989 .....12

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B. Walton Waldorf

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

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IN CHESAPEAKE BAY, USA .....26

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

Additional Keywords: Headland bays, breakwaters, Chesapeake Bay, shore protection, pocket beach.

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Additional Keywords: Shore-parallel breakwaters, beach morphology, macro-tides, morphological modeling, one-line model, sea palling, X-band radar, Argus video system.

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Additional Keywords: Espinho Town, historical evolution, groins, numerical modeling.

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Additional Keywords: Breakwaters, headlands, pocket beach, beach erosion, coastal surveys, groins, sand, littoral drift.

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Additional Keywords: Coastal protection, groin, jetty, breakwater, beach management.

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Additional Keywords: Tidal inlet, terminal groin, inlet bypassing, ebb tidal delta, porosity, longshore sediment transport.

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"CAPE HENLOPEN SUNRISE" ..... COVER

by Tony Pratt, taken 1 April 2008 at Cape Henlopen, Delaware

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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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Additional Keywords: Barrier islands, commercial humic acid, restoration, *Panicum amarum*, *Spartina alterniflora*, *Uniola paniculata*, *Avicennia germinans*.



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Gulf Coast winner: "Surfside Sun" by Rhonda Cummins  
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Caribbean winner: "Caribbean Sunset" by Chris Makowski  
Also shown: "Dune, Fence, and Shadows" by Tony Pratt

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THE INSHORE MIGTATION OF SWASH BARS IS SEEN AS A RIDGE AND  
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Image courtesy of Andy Serrell, Aero Graphics, Inc., Berlin, MD

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Additional Keywords: Beach, dune, storm surge, overwash, tropical storm, extratropical storm, waves, recurrence.

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Additional Keywords: Beach fill, frequency of occurrence, hurricane, storm surge, northeaster.

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Additional Keywords: Beach erosion, extratropical storm, recurrence, stage-frequency, storm surge, waves, coastal  
damage.

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Additional Keywords: Regional Sediment Management, erosion, northeaster.

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HARBOR ISLAND (FOREGROUND) AND HUNTING ISLAND LOOKING SOUTH, WITH JOHNSON CREEK INLET IN BETWEEN. THIS SHOWS THE GROINS IN PLACE AFTER MANY YEARS OF FAILED NOURISHMENT BECAUSE OF THE HIGH EROSION RATES..... COVER

Photo courtesy of Steven B. Traynum, Coastal Science & Engineering, Inc.

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Additional Keywords: Beach erosion, tidal deltas, inlet migration, barrier islands.

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Additional Keywords: Beach Erosion, nourishment, groins, Hunting Island, longshore transport, beach profiles, South Carolina.

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Additional Keywords: Bay entrance, beach nourishment, beach profile surveys, beach width, harbor seiching, jetties, littoral sediment cell, Long Beach Port, Los Angeles Port, lowland restoration, piers, ports, sediment trapping, storm wave damage, subsidence mitigation, tidal entrances, tsunamis, wave climate.

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EDISTO BEACH, SC, AT LOW TIDE LOOKING NORTHEAST IN FEBRUARY 2006 (INSET) BEFORE NOURISHMENT, AND FEBRUARY 2007, NINE MONTHS AFTER NOURISHMENT. THE OCEANFRONT HAS BEEN STABILIZED BY A FIELD OF GROINS SINCE THE 1950s. NET LONGSHORE TRANSPORT IS TO THE SOUTH AND INTO THE FLANKING SOUND AT THE BOTTOM OF EACH IMAGE. NOTE THE SCALLOPED SHORELINE INDICATING NET TRANSPORT DIRECTION. SAND RETAINING STRUCTURES DO NOT PRECLUDE LONGSHORE TRANSPORT IF THERE IS EXCESS VOLUME IN THE SYSTEM (THE CASE AFTER NOURISHMENT). THE NOURISHMENT ACTUALLY TERMINATED AT THE FOURTH GROIN FROM THE END OF THE FIELD (RIGHT EDGE OF IMAGE). EXCESS SAND HAS FLOWED FREELY TO DOWNCOAST AREAS PRODUCING THE HEALTHY BEACH IN THE FOREGROUND. GROINS SERVE THE IMPORTANT PURPOSE OF LIMITING THE DEGREE OF BEACH RECESSION, BUT IT IS GENERALLY RECOMMENDED TO COMBINE NOURISHMENT WITH ANY GROIN INSTALLATION..... COVER

Photos by T. W. Kana, Coastal Science & Engineering, Inc.

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Craig H. Everts, Carolyn D. Eldon

Additional Keywords: Beach retention structure, longshore sediment transport, hook-shaped bay, seawall, beach erosion, beach retreat.

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Reinhard E. Flick, Jerome R. Wanetick, Robert S. Grove, M. Hany S. Elway, B. Walton Waldorf

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

A BRIEF HISTORY OF HEADLAND BREAKWATERS FOR SHORE PROTECTION IN CHESAPEAKE BAY, USA .....26

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

Additional Keywords: Headland bays, breakwaters, Chesapeake Bay, shore protection, pocket beach.

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Additional Keywords: Sea turtles; endangered species; erosion; dredging; beach nourishment; incidental take, shear resistance; beach hardness; escarpment tilling.

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Additional Keywords: Storm surge; overwash; wave activity; coastal erosion; coastal morphodynamics; Louisiana; Texas; northern Gulf of Mexico.

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Additional Keywords: Beach erosion, coastal armoring structures, beach nourishment, coastal management erosional hot spot, Upham Beach

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Additional Keywords: Munsell color assessment, sand grain analysis, sand texture

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ONE OF SOUTHERN CALIFORNIA'S PREMIER NATURAL SURF BREAKS, LOWER TRESTLES IS FORMED BY THE COBBLE REMNANTS OF A FORMER DELTA OF THE SAN MATEO CREEK. TRESTLES IS ONE OF THE MOST HEAVILY USED SURFING AREAS IN THE UNITED STATES .....	COVER
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Additional Keywords: Artificial surf breaks, surfing, beach nourishment, groins, jetties, piers, coastal processes, coastal morphology modeling, offshore dredging, sand bars, beach breaks	
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 Additional Keywords: Beach nourishment; coastal restoration; sand shoals; benthic organisms; wave modeling; dredging effects

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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 NORTHWESTERLY. ALL PHOTOS BY ROBERT L. WEIGEL.... COVER

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Reprinted from Shore & Beach Vol. 42, No. 1, April 1974

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SATELLITE IMAGERY OF HURRICANE FRANCES APPROACHING THE EAST  
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Photo, NOAA – National Oceanic & Atmospheric Administration. The three insert  
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Ralph R. Clark

Additional Keywords: Beach and dune erosion, hurricane impact, beach restoration, storm response, post-storm recovery,  
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Additional Keywords: Erosion, overwash, dune, barrier island, breach

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Additional Keywords: Shoaling, erosion, restoration, project implementation reports, Congress, public notice, Shore  
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Additional Keywords: Hurricanes, climate prediction, seasonal hurricane forecasting

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Additional Keywords: Hurricane forecast accuracy

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Additional Keywords: Directional wave spectra, storm surge

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Additional Keywords: Erosion, beach nourishment, renourishment, dune, beach berm, shore protection project, Cape  
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Additional Keywords: Beach erosion, storm impacts, beach nourishment, coastal management	
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Additional Keywords: LIDAR, bathymetry, beach profiles, hurricane impacts	

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Additional Keywords: Great Lakes, Illinois, shoreline, parks, parkland, landscape, planning, design, access	
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Additional Keywords: Beaches, sand analysis, Isla Mona, Isla de Mona, West Indies, Caribbean	
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Additional Keywords: Economic value of beaches, benefits of beach recovery, beach replenishment	
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Additional Keywords: Bluffs, littoral transport, Montauk, NY, coastal recession

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 Permission of San Clemente Marine Safety Office  
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 Philip King and Douglas Symes  
 Additional Keywords: Economic benefits, recreation, tourism, beaches, erosion

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ENVIRONMENTAL COMPATIBLE COBBLE BERM AND ARTIFICIAL DUNE  
 FOR SHORE PROTECTION..... 9  
 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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 NASA/GSFC, SeaWIFS Project Image

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 Asbury H. Sallenger, C. W. Wright, Kristy Guy, Karen Morgan  
 Additional Keywords: Beach, buildings, remote sensing, structures

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 Ty V. Wamsley and Kent K. Hathaway  
 Additional Keywords: ADCP, barrier island, bathymetry, Hurricane Isabel, inlt, Pamlico Sund, survey

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Linda L. York

Additional Keywords: Barrier islands, beaches, dunes, erosion, inlet, overwash, public access, storms

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Michael Wutkowski

Additional Keywords: Beach fill, dredging, Hurricane Isabel, inlet, interagency cooperation

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Christopher W. Freeman, David J. Bernstein, and Helena Mitasove

Additional Keywords: RTK-GPS, digital elevation models, shallow-water sonar, GIS, Hurricane Isabel

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Additional Keywords: Coastal erosion, coastal highways, dunes, North Carolina, overwash

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Drew Wilson

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Spencer M. Rogers, Jr. and E. Scott Tezak

Additional Keywords: Coastal hazards, coastal management, Coastal Zone Management (CZM), erosion, flooding, hazard zones, National Flood Insurance Program (NFIP), run-up, Sea Grant, set-back lines, storms, storm surge, structures

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A: MALIBU COASTLINE, FROM SANTA MONICA BAY, 30 OCTOBER 1998. B. SEASONAL POND AT BOLSA CHICA, 25 OCTOBER 2003. C. WETLAND AT INVERNESS, 23 JANUARY 2004. D. SANTA MONICA BEACH AND COASTAL CLIFFS, 12 JANUARY 2000. E. SANTA CRUZ ISLAND – UNDEVELOPED COASTAL CLIFF AND BEACH, AUGUST 1992..... COVER  
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Bruce M. Williams, Chia Chi Lu, and Wenkai Qin

Additional Keywords: Upper bluff failure; bluff toe erosion, San Diego County; probability density function; shoreline retreat

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Additional Keywords: San Dieguito Lagoon; restoration; wetlands; pickleweed; Salicornia virginica

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Additional Keywords: AB 411; bacteria; fecal coliform; total coliform; enterococcus; numerical modeling; hydrodynamics; water quality; RMA2; RMA4; tracer study; harbor circulation; coastal structures

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**Greg Hearon and Bill Humphreys**

Additional Keywords: Beach width; beach profiles; shoreline change data

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TOP PHOTO: FORT AND PHARE DE KEMORVAN, LE CONQUET; INSET PHOTO: VIEW OF PLAG DE SAINT-PABU, PLAG DE LA VILLE BERNEUF, PLAG DU NANTOIS AND PLAG DES VALLEES FROM A MACHINE GUN BUNKER PROTECTING PLAG DE SAINT-PABU; BOTTOM PHOTO: POINTE DU PETIT MINOU SHOWING THE 105 MM GERMAN GUN BUNKER ABOVE THE PHARE AND FORT DU PETIT MINOU AT THE ENTRANCE OF THE GOULET DE BREST ..... COVER

Photographs from Hubert Chanson

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J. Richard Weggel

Additional Keywords: Dunes, Ocean visibility

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Tiffany L. Hepner and James C. Gibeaut; John A Jackson and Kathern G Jackson

Additional Keywords: Texas, science education, beach profile, beach monitoring, post-storm recovery

COASTAL OBSERVATIONS: THE ATLANTIC WALL IN NORTH BRITTANY (BRETAGNE NORD), FRANCE .....10

Hubert Chanson

Additional Keywords: Plage du Val-Andre, Pointe du Petit Minou, Plage de Saint-Pabu, Plage du Port-Morvan

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Additional Keywords: Cove Point; Flag Harbor; cliff erosion; shore protection; jetties; groins; beach profile

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HALF MOON BAY AND SOUTH JETTY AT GRAYS HARBOR, WASHINGTON. THIS AREA BREACHED IN DECEMBER 1993 ..... COVER

Courtesy of the Seattle District, November 2001

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Additional Keywords: 2002 ASBPA Annual Conference, Professors Paul Komar and Robert Wiegel, Dr. Nicholas C. Kraus

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Additional Keywords: Breaching, dunes, nourishment, mitigation, soft solutions, American dune grass

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Additional Keywords: Beaches, photo-interpretation, shoreline change

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Additional Keywords: Tortuguero National Park, Limón Province, Caribbean coast of Costa Rica

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Additional Keywords: Beach fill, Coney Island, Sea Bright, Manasquan, Westhampton

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Additional Keywords: Accretion, aerial photography, bathymetric change, Columbia River Littoral Cell, erosion, inlet, ebb-tidal delta, National Ocean Service Topographic Surveys, U.S. Army Corps of Engineers

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Photograph courtesy of Ms. Filipa Oliveira, 12 January 2001, 11:45 a.m.

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Additional Keywords: Las Antillas Beach, Island Canela

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Additional Keywords: Erosion, monitoring hot spots

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Additional Keywords: Peninsula de Osa, Parque Nacional Corcovade

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Additional Keywords: Beach fill, coastal management, design, economics, evaluation, legislation, shore protection

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Additional Keywords: Numerical model, beach, erosion, sea level variation, Buarcos Beach, Portugal

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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  
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Additional Keywords: The Heinz Center, comparisons of waterfront and non-waterfront properties, economic effects of  
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Additional Keywords: Hurricane Isabel, surfing, recreation

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Additional Keywords: Satellite Beach, Hurricane Isabel, Cocoa Beach



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Additional Keywords: Beach nourishment, economy, tourism	
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**Robert L. Wiegel**

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: Lago di Lugano, Lugano

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**Ana Vila-Concejo, Irene Alejo, Federico Vilas**

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

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**Robert L. Wiegel**

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: Accretion; barrier islands; coastal engineering; jetties; sediment transport; spits	
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Additional Keywords: Pocket Beach; southern California; Siletz Bay, Central Oregon	

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Additional Keywords: Directional wave data, wave refraction, ENSO, Rosarito Baja California	
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Craig H. Everts and Carolyn D. Eldon	
Additional Keywords: Alongshore transport, backbeach armoring, beach accretion, beach erosion, cross-shore transport, ENSO, Batiquitor Lagoon, Carlsbad	
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Additional Keywords: Oregon coast, El Niño, beach erosion	
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Additional Keywords: Barrier islands, inlets, Humboldt Lagoons State Park, Big Lagoon, Mecox Pond, Little Piles Inlet, overwash, storm surge

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**CORPS OF ENGINEERS' FIELD RESEARCH FACILITY, DUCK, NC..... COVER ANNOUNCEMENT FOR 75<sup>TH</sup> ASBPA NATIONAL CONFERENCE - ASBPA AND BEACH PRESERVATION ASSOCIATION AND THE AMERICAN COASTAL COALITION, JOINT CONFERENCE, SHORE & BEACH PROTECTION.....2**

Additional Keywords: Washington, DC

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Additional Keywords: History of the FRF, CRAB, LARC-V

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Additional Keywords: Section 227 program, Corps of Engineers, shore protection

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Additional Keywords: Indian River, Delaware, sand bypass plant

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Additional Keywords: Pine Harbour Marina, New Zealand, channel shoaling, dredging

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Additional Keywords: FEMA, hazard, insurance, Dare County, NC

**COASTAL OBSERVATIONS: PHOTOGRAPHS OF THE COAST OF GREECE.....28**

Andrew Morang

Additional Keywords: Monastery of Dhionisiou, the peninsula of Ágio Óros ("Holy Mountain"), Northern Greece, Corinth Canal, southern Greece

**COASTAL FORUM: BRIDGING THE GAP .....29**

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Additional Keywords: Economic impact, education, technology, codes and enforcement

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Additional Keywords: Kaanapail Beach, Maui, Hawaiian Islands

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Photo provided by Olsen Associates

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Howard Marloe, Coastal Alliance	
Additional Keywords: Beach nourishment, beach water quality, financial commitment, Heinz Center study	
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Additional Keywords: Extremal analysis, risk analysis, shoreline erosion, storms, wave transmission, water level, Lake Michigan	
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* Custom Manufactured Sand-Filled Geosystems	
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Additional Keywords: Coastal structures, filter fabric, Ocean Ridge, Florida	
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Additional Keywords: Hopper Dredge Newport, T-head structures, St. Marys Entrance navigation channel	
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Additional Keywords: Block Island Sound, Cape Ann granite; Sandy Bay breakwater; Napatree Point; Fishers Island, New York	

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Robert Dolan	
Additional Keywords: Field Research Facility (FRF), Corps of Engineers, field measurement, Nags Head, North Carolina	
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Additional Keywords: Cape Hatteras, Diamond Shoals, Oregon Inlet, Pamlico Sound	
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Additional Keywords: ASBPA, history, National Research Council	
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Additional Keywords: decision-making tool, environmental impact, probability, Environmental Risk Assessment (ERA) software, St. George Bay, Malta	
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Additional Keywords: Beach nourishment	
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Additional Keywords: Beach nourishment, dune building, endangered species, habitat, raking, restoration, vegetation, New Jersey	
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Additional Keywords: Accretion, erosion, seasonal change, East Hampton, Long Island	
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Additional Keywords: Grain size, sediment sampling	
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Additional Keywords: Forest fires, flooding, Federal Funding	
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Additional Keywords: Cliffs, distribution component analysis, streams, grain size	
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Ty Wamsley and Billy L. Edge	
Additional Keywords: Beach profile survey, GPS, Jefferson County, Highway 87	
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Additional Keywords: Victoria Peak, Sampans	

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**VIEW TO THE EAST OF TWO BARRIER-ISLAND BREACHES CAUSED BY DIMINISHED SAND SUPPLY AND THE 11-14 DECEMBER 1992 NORTHEASTER..... COVER**

**Dan Covello and Aram Terchunian**

Additional Keywords: West Hampton Dunes, Long Island, New York

**COASTAL FORUM – MESSAGE FROM THE PRESIDENT OF ASBPA .....2**

**Gregory Woodell**

Additional Keywords: American Coastal Protection Act of 1999

**COASTAL EROSION – UNDERLYING FACTORS AND HUMAN IMPACTS .....3**

**Paul D. Komar**

Additional Keywords: Nile Delta, Southern California, Washington, barrier islands, budget of sediment, beach nourishment, climate change, Rosetta and Damietta branches

**A SIMPLE METHOD TO EVALUATE THE IMPACT OF TROPICAL CYCLONES ON THE COAST: HURRICANE GEORGES AND THE GULF COAST .....17**

**Johan Liebens**

Additional Keywords: Coastal erosion, hurricanes, coastal surveys, global positioning system, Florida Panhandle

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**William Daley, Clifford Jones, Thackoor Mootoo, Aram V. Terchunian, and Gary Vegliante**

Additional Keywords: Long Island, New York, erosion, breaching, piping plover, groins, beach dune restoration, endangered species

**NORTHEAST SHORE & BEACH PRESERVATION ASSOCIATION THIRD ANNUAL CONFERENCE – URBAN AND HEAVILY USED BEACHES .....30**

Additional Keywords: Breakers Hotel, Spring Lake, NJ, 3-4 May 2000, Bradley Beach, New Jersey photograph

**EFFECT OF OFFSET JETTIES ON TIDAL INLET FLOOD FLOW .....31**

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Additional Keywords: Structured inlets, entrance channels, flood tide, inlet scour, jet flow, Shinnecock Inlet

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**Michael J. Chrzastowski**

Additional Keywords: "The Chicago River Mouth" and "Shaping the Chicago Shoreline" posters

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**Dr. Nicholas C. Kraus**

Additional Keywords: Authors, Instructions to Reviewers

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**Brian Battan and Henry Bokuniewicz**

Additional Keywords: Shinnecock Inlet, cross-shore transport, wave steepness, Dean number, beaches, beach profile, beach erosion, accretion

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Additional Keywords: Bluff erosion, littoral transport, littoral cell, Point Conception, Cojo Point, Monterey formation, Gaviota Pier, Sisquoc formation, Government Point

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Additional Keywords: Beach fill, beach nourishment, benefits, economics, Seabrook Island, South Carolina

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Additional Keywords: Spring Lake, New Jersey

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Additional Keywords: Inlets, dredging, refraction, Beaufort Inlet, Morehead City Harbor, North Carolina

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Photograph by Joan Pope

Additional Keywords: Allegan County, Michigan, Lake Michigan, wave erosion, ground-water seepage

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Additional Keywords: Erosion, GIS, Great Lakes, Lake Michigan, Wisconsin, Manitowoc County, Ozaukee County, Racine County

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Additional Keywords: Headlands, beach nourishment, groins, detached breakwaters, jetties, longshore sediment transport, shore protection, Oceanside Harbor, Dana Point, Venice, California, Sand Point, West Newport, Balboa Peninsula, Toganga Creek, Crescent Bay in Laguna Beach, Redondo Beach, Will Rogers State Beach

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Additional Keywords: Beach erosion, shoreline mapping, erosion hot spots, Long Island, New York

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Additional Keywords: Beach erosion, beach accretion, beach nourishment, stream function theory

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Additional Keywords: Extreme tides, California, Pacific coast tidal patterns

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Additional Keywords: Coastal engineering; coastal zone management

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Robert L. Wiegel

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: Temporal shifts, lake levels	
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 Additional Keywords: Cabrillo Beach

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 Additional Keywords: Shinnecock Inlet, Westhampton, Moriches Inlet, Fire Island

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Additional Keywords: Recreation, economic development, retirement industry	
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Additional Keywords: Agriculture; retirees; manufacturing jobs; barrier island studies	
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Additional Keywords: CSBPA Conference; *Oceanographical Engineering* 1964;

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Additional Keywords: Computer simulations; databases; PEM Models; time-varying wave climate; equilibrium beach profile model; littoral cell

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Additional Keywords: Location map; sediment transport; significant events; artificial nourishment; shoreline positions

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UPPER – HIGH-ALTITUDE FALSE-COLOR IMAGE LOOKING EAST ACROSS THE GOLDEN GATE TO THE SIERRA NEVADA MOUNTAINS, LOWER – MARK RENNEKER AT SAN FRANCISCO’S OCEAN BEACH, 1 DECEMBER 1986. COVER

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Additional Keywords: Bolinas Bay south; interferometric synthetic aperture radar (INSAR); San Francisco



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Additional Keywords: Ocean Beach; San Francisco, California	
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Additional Keywords: Beach system in 3D; swash zone wave harmonics; time lag; wave set-up; radiation stress; three dimensional waves; wave measurements	
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Additional Keywords: Beach fill; Hurricane Hugo 1989; Hurricane Bob 1991; Halloween Storm of 1991; impacts of storms and hurricanes	
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