

**Education**

PhD Geology (Coastal Processes), University of South Carolina (USC) 1979  
 MS Geology (Coastal Geology), USC 1976  
 BA Natural Sciences (Geological Oceanography), The Johns Hopkins University 1971

**Technical and Consulting Reports — 1989 to Present**

Kana has been senior author of over 300 professional papers and consulting reports since the 1970s on topics including coastal erosion and beach nourishment design, shoreline monitoring, tidal inlet sediment dynamics, sea level rise impacts, and oil spills. He has co-authored an additional 35 refereed and proceedings papers.

**Experience**

1984–present: Founder and president, Coastal Science & Engineering (CSE), Columbia, SC  
1996–1999: Principal in the office of CSE Baird, a division of WF Baird & Associates LTD, Columbia, SC  
1977–1984: Founding partner, Research Planning Institute, Inc. (RPI) Director, Coastal Dynamics Division, Columbia, SC  
1981–2012: Adjunct professor, Department of Geology, USC, Columbia, SC  
1974–1979: Graduate research assistant, Dept. of Geology, USC  
1969–1973: Research assistant, Chesapeake Bay Institute, The Johns Hopkins University, Baltimore, MD  
1966–1972: US Naval Reserve

**Registration**

Professional geologist (SC 564, NC 1752)

**Expert Testimony (1982–present)**

Qualified and admitted in the following areas:

- Marine geology
- Coastal processes
- Estuarine processes
- Beach erosion

**Awards**

2015 Morrough P O'Brien Award (ASBPA)  
 Best Restored Beaches (ASBPA)  
 2011 — Isle of Palms (SC)  
 2013 — Nags Head (NC)  
 2015 — Folly Beach County Park (SC)  
 2016 — Seabrook Island (SC)  
 2018 — Bridgehampton-Sagaponack (NY)

**Professional Affiliations**

Board of Directors – CERF (Coastal Education & Research Foundation)  
 Board of Directors – ASBPA  
 Affiliate Member – American Society of Civil Engineers  
 Registered Professional Geologist – North Carolina  
 Registered Professional Geologist – South Carolina  
 Certified PADI Scuba Instructor

**Affiliation**

Coastal Science & Engineering Inc.  
 [160 Gills Creek Parkway 29209]  
 PO Box 8056 Columbia SC USA 29202  
 [Tel: 803-799-8949 Fax: 803-799-9481]  
 [e-mail: tkana@coastalscience.com]

**Research Grants**

Since 1978, Dr. Kana has received numerous research grants and contracts from federal and state agencies, and foreign governments including the US Army Corps of Engineers, Minerals Management Service, National Oceanic and Atmospheric Administration, US Army Research Office, South Carolina Sea Grant, US Coast Guard, South Carolina Coastal Council, South Carolina Department of Parks, Recreation and Tourism, US Environmental Protection Agency, United Nations (UNEP), and Kuwait Foundation for the Advancement of Science. Representative grants and contracts for which Kana was principal investigator include:

- US Army Corps of Engineers – Sediment budget for the south shore of Long Island, New York.
- US Minerals Management Service – Development and testing of a model for prediction of oil spill movement in the surf zone.
- SC Sea Grant – Morphologic evolution and sediment dynamics of a new tidal inlet.
- SC Department of Parks, Recreation and Tourism – Feasibility study, design, and construction management of the Hunting Island beach nourishment project.
- US Environmental Protection Agency – Potential impacts of sea-level rise in Charleston, South Carolina, and Great Bay, New Jersey.
- South Carolina Coastal Council – Development of methodology and delineation of baselines and setback lines for coastal development along the South Carolina coast.
- Kuwait Foundation for the Advancement of Science – Evaluation of impacts of the Kuwait Waterfront Project on coastal processes and water quality (co-investigator).
- US Geological Survey – South Carolina Coastal Erosion Study – Sediment budget development (co-investigator).
- US Army Corps of Engineers – (CERC) Performance evaluation of three nourishment projects in South Carolina.

**Supervisory Experience**

As a founder of Research Planning Institute Inc (RPI) (1977), Dr. Kana was responsible for business development, project management, and technical work in connection with the Coastal Dynamics Division. With another RPI partner, Kana founded Coastal Science & Engineering (CSE) in October 1984, serving as president and senior scientist. Since 1984, Kana has led the firm in pioneering work related to beach restoration and innovative soft-engineering solutions to coastal erosion. CSE is headquartered in Columbia (SC) with annual revenues in the range of \$1.5–\$2.5 million.

**International Project Experience**

Dr. Kana has completed coastal erosion and related studies in:

Antigua	France	Nigeria	St Croix
Bahamas	Jamaica	Oman	St Lucia
Benin	Kuwait	Panama	St Thomas
Cayman Islands	Malaysia	Puerto Rico	Togo

## Consulting Contracts

Dr. Kana has received consulting contracts from many federal, state, municipal, development, and industrial clients since 1978, including:

Alabama Dept of Environmental Control	McLaren-Hart/ChemRisk Company	Sasaki Associates
Bellemead Development Corp (FL)	Melrose Development Corporation	The Scott Company
Brevard County (FL)	Metcalf & Eddy	Scruggs & Hammond (KY)
Carteret County (NC)	Municipalities	Seabrook Island Company
Charleston County (SC) PRC	City of Myrtle Beach (SC)	Seabrook Island POA (SC)
Charleston Harbor Marina	City of North Myrtle Beach (SC)	Sea Island Company
Collins Engineers Inc	Town of Atlantic Beach (SC)	SeeWeed Company
Dare County (NC)	Town of Edisto Beach (SC)	Solomon Zauderer Ellenhorn Frischer & Sharp
DeBordieu Colony (SC)	Town of Emerald Isle (NC)	South Carolina
Dewberry & Davis	Town of Hilton Head Island (SC)	Ocean and Coastal Resource Mgmt
Drake Development Corporation	Town of Indian Beach (NC)	Dept Parks Recreation & Tourism
Dresdner-Robin Associates	Town of Isle of Palms (SC)	Sea Grant Consortium
Edens & Avant Company	Town of Kiawah Island (SC)	Suffolk County Parks Department (NY)
Fripp Island Property Owners Association	Town of Kitty Hawk (NC)	Sugar Beach POA (St. Croix, VI)
Fripp Island Public Service District	Town of Nags Head (NC)	Sverdrup Corporation
Greenman Pedersen Inc	Town of Ocean Isle Beach (NC)	Taylor Construction (VA)
Greenwood Development Corporation	Town of Pawleys Island (SC)	Trammell Crow Hotel Company
Han-Padron Associates	Town of Pine Knoll Shores (NC)	United Nations-UNEP
Hilton International Corporation	Town of Topsail Beach (NC)	U.S. Army Corps of Engineers
Holiday Inn Corporation	Town of Southampton (NY)	U.S. Army Research Office
Horry County (SC)	Town of Seabrook Island (SC)	U.S. Coast Guard
ICF Corporation	Village of Asharoken (NY)	U.S. Department of Commerce
Jumby Bay Island Company	Village of Quogue (NY)	NOAA-NOS
Jupiter USA Company	New York Coastal Partnership	U.S. Department of Interior
Kemron Corporation	New York State–Department of State	Minerals Management Service
Kiawah Island Community Association	North Inlet Corporation	Geological Survey
Kiawah Island Company	Owens-Corning Corporation	U.S. Environmental Protection Agency
Kuwait Foundation	Pawlowski Associates	Vanasse, Hangen Brustlin Inc
for the Advancement of Science	Perception & Decision Systems	Wilbur Smith Associates
Kuwaiti Engineers Office	Pine Island Property Owners Association (NC)	Wild Dunes Associates
La'Ala Al Kuwait Real Estate Company	Prince George Community Association	
Mayes, Sudderth & Etheridge	Sands Investment Corporation	

## Conference Coordination — Journal Editor

- 2010 Co-chair — ASBPA Fall Meeting, Charleston, South Carolina — 12–15 October 2010  
American Shore & Beach Preservation Association, Ft Myers, Florida — 200 attendees  
Responsibilities included lead board member for planning program (80 papers), guest speaker invitations, program theme, sponsorships, field-trip and short-course coordination.
- 2011 Co-chair — Special Symposium in honor of Miles O Hayes, Columbia, South Carolina 6–9 October 2011 — 80 attendees  
Responsibilities included planning, call for presentations, program, field trip, and post-conference co-editor for special issue of Journal of Coastal Research (in preparation) in honor of the career of Miles O Hayes.
- 2015 Guest Editor — Shore & Beach — Journal of the American Shore & Beach Preservation Association  
Dedicated Issue — Inlet–Beach Interactions, Vol 83(3), 64 pp (July).
- 2019 Co-chair — ASBPA Fall Meeting, Myrtle Beach, South Carolina — 22–25 October 2019

## Editorial Boards

- 2010-Present Shore & Beach – ASBPA
- 2019-Present Journal of Coastal Research – CERF

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|------------------------------|-----------------------------|---|
| <b>Journal Subscriptions</b> | Shore & Beach               | Journal of Sedimentary Petrology                        |
|                              | Journal of Coastal Research | Journal of Waterways, Port, Coastal & Ocean Engineering |

**Reviewer (Professional Articles and Books)**

**Reviews of Manuscripts/Proposals (1988 to present)**

Houston	2021	Shore & Beach
ASBPA S&T Committee	2020	Shore & Beach
Anonymous	2020	Journal of Coastal Conservation
Anonymous	2019	Journal of Coastal Energy
Hamza et al	2019	Journal of Coastal Research
Al Hamaimian	2018	Kuwait University
Davis et al	2015	Beaches of the Gulf Coast (Book)
Hayes	2011	Coastal Heroes (Book)
Brutsche et al	2014	Journal of Coastal Research
Houston & Dean	2013	Shore & Beach
Munger & Frey	2013	Journal of Coastal Research
AA Bado	2012	Kuwait University
Hoan et al	2011	Journal of Estuarine, Coastal & Shelf Sciences
Hoan et al	2010	Journal of Coastal Engineering
Al-Shaalan	2010	Kuwait University
Jackson et al	2010	Journal of Ecological Engineering
Al-Zanel	2004	Kuwait University
Peterson & Wells	2003	North Carolina Sea Grant
Posey et al	2003	North Carolina Sea Grant
Peterson	2001	North Carolina Sea Grant
Judge & Overton	1999	Journal of Coastal Research
Al-Sarawi & Al-Zamel	1996	Kuwait University
Spencer & Terchunian	1996	Shore & Beach
Ebersole et al	1995	Shore & Beach
Moriarity	1995	New England Marine Aquarium
Lawrence & Davidson-Arnott	1995	Journal Coastal Research
Conley	1995	New York State Sea Grant
Pizzuto & Kraft	1994	Delaware Sea Grant
Yamashita et al	1994	Marine Geology
Wijnberg & Terwindt	1994	Marine Geology
Pompé, J	1993	Journal of Ocean and Coastal Management
Prestedge, C	1992	Shore & Beach
Joyner, L	1991	<i>The Southern Coast</i> , Southern Living
Leatherman, SJ	1990	Shore & Beach
Goldsmidt, PM, et al	1990	Shore & Beach
Davis, RA, Jr	1988	Sea Grant (proposal)
Matsushita and McCann	1988	Earth Surface Processes and Landforms

**MS/PhD Committee Advisor (USC)**

Vogel, M	1981	MS	Frankenburg, A	1990	PhD
Svetlichny, M	1982	MS	Barua, D	1992	PhD
Mason, J	1986	MS	MacMahan, J	1997	MS
Frankenburg, A	1987	MS	Gaudiano, D	1998	MS

**Courses Taught (USC)**      GEO 772 (Coastal Dynamics)      GEO 854 (Readings in Coastal Processes)  
 GEO 757 (Coastal Processes)

**Instructor – Recent Activities**

ICCE 2018 – Short-course lecturer – Design of Coastal Damage Mitigation and Adapting Alternatives for Rising Seas: Lessons Learned by Coastal Engineers (Prof David Basco – convener) International Conference on Coastal Engineering, ASCE, Baltimore MD (30 July 2018)  
 ASBPA – Coastal Certificate Program (2015–ongoing) – Coastal Geology Module – Instructor  
 American Council of Engineering Companies (South Carolina) – 14 June 2013 – Sustainable Beach Nourishment (1 pdh credit hour)  
 ASBPA Field Trip Leader – 15 October 2010 – Guidebook for Sullivan’s Island, Isle of Palms, and Dewees Island (with Pete Seidle, ATM)  
 ASBPA Short Course – 12 October 2010 – Sand Resources and Coastal Law (Joan Pope and Todd Roessler, convenors) – Sediments, geologic framework, erosion and beach restoration  
 Carolina Geological Society Field Trip Leader – 18-19 September 2010 – Coastal Processes: Kiawah Island, Seabrook Island & Edisto Beach State Park  
 Professional Engineers of North Carolina (Wrightsville Beach) – 19 June 2010 – Preserving Carolina Beaches (2 pdh credit hours)

**Refereed Publications (RP), Book Chapters (BC), Booklets (B), Articles (A)**

Dr. Kana has been senior author for over 80 and co-author of about 35 journal articles, book chapters, guidebooks, and proceedings papers since 1970s. Topics include beach nourishment, coastal processes, tidal inlets, sea-level rise, coastal structures, oil-spill impacts, and suspended sediment in the surf zone.

- Kana, TW and HL Kaczowski. 2019. (RP) Myrtle Beach: A history of shore protection and beach restoration, *Shore & Beach*, Vol 87(3), pp 13-34.
- Kana, TW, HL Kaczowski, and SB Traynum. 2018. (BC) Building blocks for a sustainable beach nourishment program. Chapter 38 in YC Kim (ed), *Handbook of Coastal and Ocean Engineering – Expanded Edition*, Vol 2, World Scientific, Singapore. pp 1113-1138.
- Kana, TW, HL Kaczowski, and SB Traynum. 2015. (BC) An empirical approach to beach nourishment formulation. Chapter 4 in YC Kim (ed), *Design of Coastal Structures and Sea Defenses*, Vol 2, Series on Coastal and Engineering Practice, World Scientific, pp 105-144.
- Kana, TW, J Michel, and G Voulgaris. 2013. (A) Introduction and tribute. Proc Symposium Applied Coastal Geomorphology to Honor Miles O Hayes. *Journal of Coastal Research*, Special Issue 69, pp iv-vii.
- Kana, TW, SB Traynum, D Gaudiano, HL Kaczowski, and T Hair. 2013. (RP) The physical condition of South Carolina beaches 1980–2010. *Journal of Coastal Research*, Special Issue 69, pp 61-89.
- Kana, TW. 2012. (RP) A brief history of beach nourishment in South Carolina. *Shore & Beach*, Vol 80(4), pp 1-13.
- Kana, TW. 2012. (A) Beach building in South Carolina — by natural processes. *Coastal News Today*, 3 June 2012, www.coastalnewstoday.com.
- Kana, TW, HL Kaczowski, SB Traynum, and PA McKee. 2012. (RP) Impact of Hurricane *Irene* during the Nags Head beach nourishment project. *Shore & Beach*, Vol 80(2), pp 6-18.
- Kana, TW. 2011. (B) *Coastal Erosion and Solutions – A Primer*. 2<sup>nd</sup> Edition, Coastal Science & Engineering, Columbia, SC, 40 pp.
- Kana, TW, JD Rosati, and SB Traynum. 2011. (RP) Lack of evidence for onshore sediment transport from deep water at decadal time scales: Fire Island, New York. *Journal of Coastal Research*, Special Issue 59, pp 61-75.
- Kana, TW. 2009. (A) Let's put sea-level rise in perspective. Op-Ed piece, *News & Observer*, Raleigh, NC, February.
- Kana, TW. 2006. (A) Myrtle Beach restoration: a success story? *South Carolina Business & Economic Review*, Moore School of Business, USC, Div of Research, Vol 52(4), pp 19-22.
- Kana, TW, TE White, and PA McKee. 2004. (RP) Management and engineering guidelines for groin rehabilitation. *Journal of Coastal Research*, Special Issue 33 (NC Kraus and KL Rankin, eds), pp 57-82.
- Kana, TW. 2003. (B) *Coastal Erosion and Solutions – A Primer*. Coastal Science & Engineering, Columbia, SC, 25 pp.
- Kana, TW, EJ Hayter, and PA Work. 1999. (A) Mesoscale sediment transport at Southeastern U.S. tidal inlets: conceptual model applicable to mixed energy settings. *Journal of Coastal Research*, Vol 15(2), pp 303-313.
- Kana, TW, and RK Mohan. 1998. (RP) Analysis of nourished profile stability following the fifth Hunting Island (SC) beach nourishment project. *Journal of Coastal Engineering*, Vol 33, pp 117-136.
- Kana, TW, RE Katmarian, and PA McKee. 1997. (RP) The 1986-1995 Myrtle Beach nourishment project: ten-year performance summary. *Shore & Beach*, Vol 65(1), pp 8-23.
- Kana, TW. 1996. (BC) Chapter 4.45. United States: South Carolina: soft engineering beach restoration. In J.R. Clark, *Coastal Zone Management Handbook*, CRC Lewis Publishers, Boca Raton, FL, pp 622-626.
- Kana, TW. 1995. (RP) A mesoscale sediment budget for Long Island, New York. *Marine Geology*, Vol 126(1995), pp 87-110.
- Kana, TW. 1992. (A) Hurricane *Hugo* poststorm beach reconstruction. *The South Carolina Engineer*, Vol XLII(1), pp 9-11.
- Kana, TW. 1991. (BC) Chap. 3.14. Treating the coast as a dynamic system. In J.R. Clark (ed), *The Status of Integrated Coastal Zone Management: A Global Assessment*. CAMPNET, Coastal Area Management and Planning Network, Miami, FL, pp 60-61.
- Kana, TW, FD Stevens, and G Lennon. 1990. (RP) Beach and dune restoration following *Hugo*. *Shore & Beach*, Vol 58(4), pp 57-63.
- Kana, TW. 1990. (B) *Conserving South Carolina Beaches Through the 1990s: A Case for Beach Nourishment*. South Carolina Coastal Council, Charleston, SC, 33 pp (est. 2,500 copies in print).
- Kana, TW. 1989. (A) Coastal hazards (global warming and hazards policy: three perspectives). *Natural Hazards Observer*, Vol XIII(6), pp 2-4.
- Kana, TW. 1989. (RP) Erosion and beach restoration at Seabrook Island, South Carolina. *Shore & Beach*, Vol 57(3), pp 3-18.
- Kana, TW. 1988. (B) *Beach Erosion in South Carolina*. M Goodwin and F Rogers (eds), South Carolina Sea Grant Consortium, Charleston, SC, SCSG-SP-88-1, 55 pp (estimated 5,000 copies in print).
- Kana, TW. 1988. (A) Barrier islands in South Carolina. In *South Carolina Public Beach and Coastal Access Guide*, South Carolina Parks, Recreation & Tourism, pp 113-114.
- Kana, TW, and WJ Sexton. 1988. (BC) Barrier beaches and tidal inlets of South Carolina. In DT Secor Jr (ed), *Southeastern Geological Excursions, Field Trip Guidebook*, Geological Society of America, SE Section, pp 185-203.
- Kana, TW. 1988. (BC) USA — South Carolina. Chap 62, *Artificial Structures and Shorelines* (HJ Walker, ed), Kluwer Academic Publ, Dordrecht, Netherlands, pp 593-605.
- Kana, T.W, and M. Al-Sarawi. 1988. (BC) Kuwait. Chap 29, *Artificial Structures and Shorelines* (HJ Walker, ed), Kluwer Academic Publ, Dordrecht, Netherlands, pp 261-268.
- Kana, TW, and JE Mason. 1988. (RP) Evolution of an ebb-tidal delta after an inlet relocation. In DG Aubrey (ed), *Hydrodynamics and Sediment Dynamics of Tidal Inlets*, Springer-Verlag, New York, NY, pp 382-411.
- Kana, TW, WC Eiser, BJ Baca, and ML Williams. 1988. (BC) New Jersey case study. In JG Titus (ed), *Greenhouse Effect, Sea Level Rise, and Coastal Wetlands*. US Environmental Protection Agency, Wash, DC, pp 61-86.



**Refereed Publications (RP), Book Chapters (BC), Booklets (B), Articles (A) — continued**

- Kana, TW, BJ Baca, and ML Williams. 1988. (BC) Charleston case study. In JG Titus (ed), *Greenhouse Effect, Sea Level Rise, and Coastal Wetlands*. EPA-230-05-86-013, US Environmental Protection Agency, Wash, DC, pp 37-60.
- Kana, TW, BJ Baca, and ML Williams. 1986. (B) *Potential Impacts of Sea Level Rise on Wetlands Around Charleston, South Carolina*. EPA Report 230-10-85-014, Wash, DC, 65 pp.
- Kana, TW, J Michel, MO Hayes, and JR Jensen. 1984. (BC) The physical impact of sea-level rise in the area of Charleston, SC. In MC Barth and JG Titus (eds), *Greenhouse Effect and Sea Level Rise: A Challenge for this Generation*, Van Nostrand Reinhold Co, New York, NY, pp 105-150.
- Kana, TW. 1979. (RP) Suspended sediment in breaking waves. Tech. Rept. No. CRD-18, Coastal Res. Div, Univ. South Carolina, Columbia, 153 pp.
- Kana, TW, and JS Knoth. 1977. (BC) Longshore transport rates in South Carolina. In D Nummedal (ed), *Beaches and Barriers of the Central South Carolina Coast*, 5<sup>th</sup> Symposium, Coastal Sediments '77 (guidebook for a field trip in conjunction with conference), ASCE, New York, NY, pp 25-32.
- Kana, TW. 1977. (RP) Beach erosion during minor storm. In *Jour Waterway, Port, Coastal & Ocean Engineering*, ASCE, New York, NY, Vol 103(WW4), pp 505-518.
- Kana, TW. 1977. (A) Getting started as an independent instructor. *The Undersea Journal*, PADI, Vol X(4), pp 8-9.
- Kana, TW. 1976. (RP) A new apparatus for collecting simultaneous water samples in the surf zone. *Jour Sedimentary Petrology*, Vol 46, pp 1031-1034.
- Kana, TW. 1976. (BC) Littoral processes and sediment transport at Price Inlet, South Carolina. In MO Hayes and TW Kana (eds), *Terrigenous Clastic Depositional Environments*, Tech Rept No 1-CRD, Coastal Research Div, Geology Dept, Univ South Carolina, Columbia, pp II-158 to II-171.
- Kana, TW, BJ Baca, and ML Williams. 1988. (BC) Charleston case study. In JG Titus (ed), *Greenhouse Effect, Sea Level Rise, and Coastal Wetlands*. EPA-230-05-86-013, US Environmental Protection Agency, Wash, DC, pp 37-60.
- Kana, TW, BJ Baca, and ML Williams. 1986. (B) *Potential Impacts of Sea Level Rise on Wetlands Around Charleston, South Carolina*. EPA Report 230-10-85-014, Wash, DC, 65 pp.
- Kana, TW, J Michel, MO Hayes, and JR Jensen. 1984. (BC) The physical impact of sea-level rise in the area of Charleston, SC. In MC Barth and JG Titus (eds), *Greenhouse Effect and Sea Level Rise: A Challenge for this Generation*, Van Nostrand Reinhold Co, New York, NY, pp 105-150.
- Kana, TW. 1979. (RP) Suspended sediment in breaking waves. Tech. Rept. No. CRD-18, Coastal Res. Div, Univ. South Carolina, Columbia, 153 pp.
- Kana, TW, and JS Knoth. 1977. (BC) Longshore transport rates in South Carolina. In D Nummedal (ed), *Beaches and Barriers of the Central South Carolina Coast*, 5<sup>th</sup> Symposium, Coastal Sediments '77 (guidebook for a field trip in conjunction with conference), ASCE, New York, NY, pp 25-32.
- Kana, TW. 1977. (RP) Beach erosion during minor storm. In *Jour Waterway, Port, Coastal & Ocean Engineering*, ASCE, New York, NY, Vol 103(WW4), pp 505-518.
- Kana, TW. 1977. (A) Getting started as an independent instructor. *The Undersea Journal*, PADI, Vol X(4), pp 8-9.
- Kana, TW. 1976. (RP) A new apparatus for collecting simultaneous water samples in the surf zone. *Jour Sedimentary Petrology*, Vol 46, pp 1031-1034.
- Kana, TW. 1976. (BC) Littoral processes and sediment transport at Price Inlet, South Carolina. In MO Hayes and TW Kana (eds), *Terrigenous Clastic Depositional Environments*, Tech Rept No 1-CRD, Coastal Research Div, Geology Dept, Univ South Carolina, Columbia, pp II-158 to II-171.
- opportunities and constraints. *Environmental Conservation*, Vol 38(3), pp 288-302.
- Traynum, SB, TW Kana, and DR Simms. 2010. (RP) Construction and performance of six template groins at Hunting Island, South Carolina. *Shore & Beach*, Vol 78(3), pp 21-32.
- Gaudio, DJ, and TW Kana. 2001. (RP) Shoal bypassing in South Carolina tidal inlets: geomorphic variables and empirical predictions for nine mesotidal inlets. *Jour Coastal Research*, Vol 17, pp 280-291.
- Leatherman, SP, RG Dean, TW Kana, and FJ Anders. 1997. (RP) Goldsmith Inlet and adjacent areas, north shore of Long Island, New York: erosion problems and suggested modifications. *Shore & Beach*, Vol 65(3), pp 13-16.
- Barua, D, and TW Kana. 1995. (RP) Deep-water wave hindcasting, wave-refraction modeling, and wind and wave-induced motions in the least Ganges-Brahmaputra delta coast. *Journal of Coastal Research*, Vol 11(3), pp 834-848.
- ASCE Task Committee. 1992. (RP) Effects of sea-level rise on bays and estuaries. *Journal of Hydraulic Engineering*, ASCE, Vol 118(1), pp 1-10.
- Reed, M, ER Gundlach, TW Kana. 1989. (RP) A coastal zone oil spill model: development and sensitivity studies. *Oil and Chemical Pollution*, Vol 5, pp 411-449.
- Davidson, MW, and TW Kana. 1988. (BC) Future sea level rise and its implications for Charleston, South Carolina. In MH Glantz, *Societal Responses to Regional Climatic Change: Forecasting by Analogy*, Westview Press, Colorado, pp 197-214.
- Hayes, MO, J Michel, and TW Kana. 1986. (BC) Coastal processes and geomorphology along the Kuwait City waterfront. In R Halwagy, D Clayton, and M Behbehani (eds), *Marine Environment and Pollution, Proc First Arabian Gulf Conf on Environment and Pollution (Feb'82)*, Kuwait University, Safat, pp 25-41.
- Kennedy, SK, R Ehrlich, and TW Kana. 1981. (RP) The non-normal distribution of intermittent suspension sediments below breaking waves. *Journal of Sedimentary Petrology*, Vol 51(4), pp 1103-1108.
- Hayes, MO, and TW Kana (eds). 1976. (B) *Terrigenous Clastic Depositional Environments*, Tech. Rept. No. 11-CRD, Univ. South Carolina, Columbia, 306 pp (~10,000 copies in print).
- Schubel, JR, E Schiemer, TW Kana, and GM Schmidt. 1972. (RP) A new filtering water bottle. *Jour Sedimentary Petrology*, Vol 42(2), pp 482-484.
- Schubel, JR and TW Kana. 1971. (RP) Agglomeration of fine-grained suspended sediment in northern Chesapeake Bay. *Powder Tech*, Vol 6, pp 9-16.

**Co-Author**

- Barrineau, P, R Janmaat, and TW Kana. (in press). Empirical depth of closure along the US East Coast. *Journal of Coastal Engineering*. (final submittal June 2021).
- Barrineau, P and TW Kana. 2019. (RP) Unpacking storm damages on a developed shoreline: Relating dune erosion and urban runoff. *Shore & Beach*. Vol 87(3), pp 35-45.
- Kaczkowski, HL, TW Kana, SB Traynum, and R Visser. 2018. (RP) Beach-fill equilibration and dune growth at two large-scale nourishment sites. *Ocean Dynamics*. Springer. Vol 68(9), pp 1191-1206.
- Nordstrom, KF, NL Jackson, NC Kraus, TW Kana, R Bearce, A Hecht, LM Bocamazo, DR Young, and HA De Butts. 2011. (RP) Enhancing geomorphic and biologic functions and values on backshores and dunes of developed shores: a review of

## Proceedings Papers

- Traynum, SB, TW Kana, and HL Kaczowski. (2019) The construction and impacts of a groin lengthening project at a southeastern U.S. beach. In P Wang, JD Rosati, and M Vallee (eds) Proc Coastal Sediments '19.
- Kana, TW, and HL Kaczowski. (2019) Limits of cross-shore exchange at decadal scales. In P Wang, JD Rosati, and M Vallee (eds) Proc Coastal Sediments '19. World Scientific. pp 2174-2185. (ebook).
- Barrineau, P, R Janmatt, and TW Kana. (2019) Comparing empirical depths of closure along the U.S. East Coast. In P Wang, JD Rosati, and M Vallee (eds) Proc Coastal Sediments '19. World Scientific. pp 2103-2116.
- Kana, TW, HL Kaczowski, and SB Traynum. (2018) Five key elements for a sustainable beach nourishment program (Abstract). In Proc 36<sup>th</sup> Intl Conf on Coastal Engineering, ASCE (Baltimore MD)
- Kaczowski, HL, TW Kana, and R Visser. (2018) Nags Head renourishment planning, design, and numerical modeling (Abstract). In Proc 36<sup>th</sup> Intl Conf on Coastal Engineering, ASCE (Baltimore MD)
- Kaczowski, HL, SB Traynum, TW Kana, and M Rentz. (2015) Terminal groin and beach restoration at Folly Beach County Park (South Carolina). In D Cox and L Wallendorf (eds), Proceedings Coastal Structures and Solutions to Coastal Disasters, ASCE-COPRI (Boston MA, 9–11 September 2015), 12 pp.
- Kana, TW, C Mack, and J Sabine. 2015. Processes and management issues for accreting barrier beaches—Southeast USA. In Proc Coastal Sediments '15 (San Diego CA).
- Kana, TW, SB Traynum, and HL Kaczowski. 2014. Scales and signatures of episodic bypassing at a tide-dominated inlet— Fripp Inlet, South Carolina. In JM Smith (ed), Proc 34<sup>th</sup> International Conference on Coastal Engineering (ICCE, June 2014, Seoul, Korea, 10 pp).
- Kana, TW and HL Kaczowski. 2012. Planning, preliminary design, and initial performance of the Nags Head beach nourishment project. In Proc 33<sup>rd</sup> International Conference on Coastal Engineering (ICCE July 2012, Santander, Spain, 12 pp).
- Kaczowski, HL, and TW Kana. 2012. Final design of the Nags Head beach nourishment project using longshore and cross-shore numerical models. In Proc 33<sup>rd</sup> International Conference on Coastal Engineering (ICCE July 2012, Santander, Spain, 24 pp).
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- Kana, TW, SB Traynum, and JD Jordan. 2011. Barrier island habitat creation at decadal scales. In Proc Coastal Sediments '11, World Scientific Publishing Company, Vol 2, pp 1162-1175.
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- CSE. 2007–2009. Survey Reports 1–32 – 2006 east end erosion and beach restoration project, Kiawah Island (SC). Town of Kiawah Island, SC. CSE, Columbia, SC.
- CSE. 2009. Survey Report No 3 – 2006 east end erosion and beach restoration project, Kiawah Island (SC). Town of Kiawah Island, SC. CSE, Columbia, SC, 55 pp + appendices.
- CSE. 2009. Review of baselines and setback lines and recommended 40-year erosion for western Kiawah Island. Submitted to SCDHEC–OCRM, Charleston (SC) by Town of Kiawah Island (SC). CSE, Columbia, SC, 35 pp + attachments.
- CSE. 2009. Beach restoration project (2008), Isle of Palms, South Carolina. Year 1 Monitoring Report, City of Isle of Palms, SC. CSE, Columbia, SC, 107 pp + appendices.
- CSE. 2009. Captain Sams inlet relocation project: analysis of potential impacts of inlet relocation on Kiawah spit. Technical Report to Seabrook Island POA. CSE, Columbia, SC, 94 pp + appendices.
- CSE. 2010. Historical changes at Pawleys Inlet and a conceptual plan for an inlet management zone, Pawleys Island, South Carolina. Technical Report (August 2010) for Prince George Community Association, Pawleys Island, SC. CSE, Columbia, SC, 40 pp + appendices.
- CSE. 2010. Review of draft baselines and setback lines for Fripp Island, South Carolina. Technical Report for Fripp Island Property Owners Association. CSE, Columbia, SC, 30 pp plus attachments.
- CSE. 2011. Captain Sams inlet relocation project: design report. Report to USACE for Seabrook Island POA. CSE, Columbia, SC, 116 pp plus 7 appendices.
- CSE. 2011. Captain Sams inlet relocation project: review & analysis of alternatives. Supplementary Report 1 to USACE for Seabrook Island POA. CSE, Columbia, SC, 27 pp.
- CSE. 2011. Captain Sams inlet relocation project: analysis of downdrift impacts. Supplementary Report 2 to USACE for Seabrook Island POA. CSE, Columbia, SC, 33 pp.
- CSE. 2011. Coastal engineering & geotechnical analyses for beach nourishment, Nags Head, North Carolina. Final Design Report for Town of Nags Head, NC. CSE, Columbia (SC), 163 pp (incl Executive Summary) + appendices.
- CSE. 2011. Shoreline erosion assessment and plan for beach restoration for Village of Quogue, New York. Feasibility Report for Village of Quogue (NY). CSE, Columbia (SC) with First Coastal Corporation, Westhampton Beach (NY), 91 pp plus appendices.
- CSE. 2012. Shoreline erosion assessment and plan for beach restoration, Bridgehampton–Water Mill Beach, New York. Feasibility Report for Bridgehampton–Water Mill Erosion Control District, Town of Southampton, New York. CSE, Columbia (SC), 112 pp + appendices.
- CSE. 2012-1. Phase 1 planning for Folly Beach County Park stabilization project, Folly Beach, South Carolina. Planning Report for Charleston County Park & Recreation Commission, Charleston, SC, 47 pp + appendices.
- CSE. 2012-2. Review and analysis of alternatives for Folly Beach County Park stabilization project, Folly Beach, South Carolina. Supplementary Report #1 for US Army Corps of Engineers (USACE), Charleston, SC, 27 pp.
- CSE. 2012-3. Biological assessment and essential fish habitat assessment for Folly Beach County Park stabilization project, Folly Beach, South Carolina. Supplementary Report #2 for US Army Corps of Engineers (USACE), Charleston, SC, 66 pp.
- CSE. 2012-4. Updated analysis of potential downdrift impacts for Folly Beach County Park stabilization project, Folly Beach, South Carolina. Supplementary Report #3 for US Army Corps of Engineers (USACE), Charleston, SC, 117 pp.
- CSE. 2012. Shoreline erosion assessment and plan for beach restoration for Village of Quogue, New York. Geotechnical Data Supplementary Report for Village of Quogue (NY). CSE, Columbia (SC) with First Coastal Corporation, Westhampton Beach (NY), 28 pp plus appendix.
- CSE. 2012. Shoreline erosion assessment and plan for beach restoration, Sagaponack, New York. Feasibility Report for Sagaponack Erosion Control District, Town of Southampton, New York. CSE, Columbia (SC), 110 pp + appendices.
- CSE. 2012. Monitoring and analyses of the 1997 Myrtle Beach–Reach 2 shore protection project. Monitoring Report (2011–Year 6) for City of Myrtle Beach; CSE, Columbia, SC, 69 pp + appendices.
- CSE. 2012. Phase 1 planning for stabilization of Singleton Swash, Horry County, South Carolina. Technical report for Horry County I&R Division, Conway, SC; CSE, Columbia, SC, 58 pp + appendices.
- CSE. 2012. Annual beach and inshore surveys—2006 east end erosion and beach restoration project, Kiawah Island, Charleston County, SC. Monitoring Report #5 for Town of Kiawah Island, SC; Coastal Science & Engineering, Columbia, South Carolina, 83 pp + appendices.
- CSE. 2012. Beach restoration and groin construction (2006-2007), Hunting Island State Park, Beaufort County, South Carolina. Year 5 Monitoring Report for State Project P28-9665-MJ, SC Department of Parks Recreation & Tourism, Columbia, SC. CSE, Columbia, SC, 91 pp + appendices.

**Technical and Consulting Reports — 1989 to Present (continued)**

- CSE. 2012. Shoal management project, Isle of Palms, South Carolina. Final Report, City of Isle of Palms, SC; CSE, Columbia, SC, 53 pp + appendices.
- CSE. 2012. Monitoring and analyses of the 1997 Myrtle Beach–Reach 2 shore protection project. Monitoring Report (2012–Year 7) for City of Myrtle Beach; CSE, Columbia, SC, 81 pp + appendices.
- CSE. 2012. Beach restoration project (2008), Isle of Palms, South Carolina. Beach Monitoring Report – Year 4 (November 2012), City of Isle of Palms, SC; CSE, Columbia, SC, 83 pp + appendix.
- CSE. 2013a. Assessment of the groin field and conceptual plan for groin lengthening. Report for Town of Edisto Beach, Edisto Island, SC. CSE, Columbia, SC, 51 pp + appendices.
- CSE. 2013b. Annual beach and inshore surveys – assessment of beach and groin conditions – 2006 beach restoration project, Edisto Beach, Colleton County, South Carolina. Survey Report 6 for Town of Edisto Beach, Edisto Island, SC. CSE, Columbia, SC, 81 pp + appendices.
- CSE. 2013. Monitoring and analyses of the 2011 Nags Head beach nourishment project. Year 1 (2012) beach monitoring report for Town of Nags Head, NC. CSE, Columbia (SC), 93 pp + appendices.
- CSE. 2013. Assessment of seawall conditions along Fripp Inlet, South Carolina — Task 1. Technical Report for Fripp Island Public Service District and Fripp Island Property Owners Association. CSE, Columbia, SC, 15 pp plus Sheets 1–8 (29 pp).
- CSE. 2013. Assessment of potential realignment of Fripp Inlet and alternatives for oceanfront improvement, Fripp Island, South Carolina — Tasks 2 & 3. Technical Report for Fripp Island Public Service District and Fripp Island Property Owners Association. CSE, Columbia, SC, 57 pp.
- CSE. 2013. Annual beach and inshore surveys—2006 east end erosion and beach restoration project, Kiawah Island, Charleston County, SC. Monitoring Report #6 for Town of Kiawah Island, SC; Coastal Science & Engineering, Columbia, South Carolina, 71 pp + appendices.
- CSE. 2013. Final Project Manual for Construction for Sagaponack and Bridgehampton Beach Erosion Control District Nourishment Project, Town of Southampton, Suffolk County, NY. CSE, Columbia (SC).
- CSE. 2013. Beach restoration and groin construction (2006-2007), Hunting Island State Park, Beaufort County, South Carolina. Year 6 Annual Monitoring Report for State Project P28-9665-MJ, SC Department of Parks Recreation & Tourism, Columbia, SC. CSE, Columbia, SC, 79 pp + appendix.
- CSE. 2013. Borings and sediment quality in potential offshore and inlet borrow areas – Phase 1, Suffolk County Parks at Smith Point and Cupsogue Beach, New York. Geotechnical Data Report for Greenman-Pedersen Inc. CSE, Columbia, SC, 35 pp + appendices.
- CSE. 2013. Beach restoration and groin construction for Folly Beach County Park, Folly Beach, South Carolina. Final Report for Charleston County Park & Recreation Commission, Charleston, SC, 74 pp + appendices.
- CSE. 2013. Monitoring and analyses of the 2011 Nags Head beach nourishment project. Year 2 beach monitoring report for Town of Nags Head, NC. CSE, Columbia (SC), 109 pp + appendices.
- CSE. 2013. Shoreline erosion assessment and plan for beach restoration, Rodanthe and Buxton areas, Dare County, North Carolina. Feasibility Report for Dare County Board of Commissioners, Manteo, NC. CSE, Columbia, SC, 159 pp with synopsis plus appendices.
- CSE. 2013. Monitoring and analyses of the 1997 Myrtle Beach–Reach 2 shore protection project. Monitoring Report (2013) for City of Myrtle Beach; CSE, Columbia, SC, 79 pp + appendices.
- CSE. 2013. Beach restoration project (2008), Isle of Palms, South Carolina. Beach Monitoring Report – Year 5 (December 2013), City of Isle of Palms, SC; CSE, Columbia, SC, 89 pp + appendices.
- CSE. 2014. Annual beach and inshore surveys – assessment of beach and groin conditions – 2006 beach restoration project, Edisto Beach, Colleton County, South Carolina. Survey Report 7 for Town of Edisto Beach, Edisto Island, SC. CSE, Columbia, SC, 81 pp + appendices.
- CSE. 2014. Annual beach and inshore surveys—2006 east end erosion and beach restoration project, Kiawah Island, Charleston County, SC. Monitoring Report #7 for Town of Kiawah Island, SC; Coastal Science & Engineering, Columbia, South Carolina, 67 pp + appendices.
- CSE. 2014 (February). Coastal engineering and geotechnical analysis for beach restoration at Sagaponack & Bridgehampton–Water Mill BECDs, Southampton, New York. Design Report for Town of Southampton, New York. CSE, Columbia (SC), 80 pp + appendices.
- CSE. 2014. 2013–2014 Sagaponack and Bridgehampton beach erosion control districts nourishment project, Southampton, Long Island, Suffolk County (NY). Final Report for Town of Southampton, New York. CSE, Columbia (SC), 79 pp + appendices.
- CSE. 2014. Kiawah Island east end dune habitat preservation project. Biological assessment and essential fish habitat assessment for US Army Corps of Engineers, Charleston, SC. Coastal Science & Engineering, Columbia, South Carolina, 77 pp + attachments.
- CSE. 2014. Seabrook Island Captain Sams Inlet Relocation Project. Draft Management Plan (Section 5) to Seabrook Island POA; CSE, Columbia, SC, 68 pp + appendices (2432).
- CSE. 2014. Seabrook Island Captain Sams Inlet Relocation Project. Year 14 Monitoring Report to Seabrook Island POA; CSE, Columbia, SC, 73 pp + appendices (2429).
- CSE. 2014. Monitoring and analyses of the 1997 Myrtle Beach–Reach 2 shore protection project. Monitoring Report (2014) for City of Myrtle Beach; CSE, Columbia, SC, 77 pp + appendices.
- CSE. 2014. Beach restoration and groin construction (2006-2007), Hunting Island State Park, Beaufort County, South Carolina. Year 7 Annual Monitoring Report for State Project P28-9665-MJ, SC Department of Parks Recreation & Tourism, Columbia, SC. CSE, Columbia, SC, 83 pp + appendices (2426).
- CSE. 2014. Monitoring and analyses of the 2011 Nags Head beach nourishment project. Year 3 (2014) beach monitoring report for Town of Nags Head, NC. CSE, Columbia (SC), 128 pp + appendices.
- CSE. 2014. Erosion assessment and preliminary plan for beach restoration. Technical Report for Inlet Harbour Homeowners Association, Garden City, SC. CSE, 41 pp + appendices.



**Technical and Consulting Reports — 1989 to Present (continued)**

- CSE. 2015. Beach erosion management alternatives — 25-year plan for DeBordieu Colony, South Carolina. Draft Preliminary Report for DeBordieu Colony Community Association, Georgetown, SC. CSE, Columbia (SC), 49 pp + appendix (2443).
- CSE. 2015. Beach erosion management alternatives—30-year plan—for DeBordieu Colony, South Carolina. Technical Report for DeBordieu Colony Community Association, Georgetown, SC. Coastal Science & Engineering Inc (CSE), Columbia, SC, 59 pp + appendix (2443–TR).
- CSE. 2015. Geotechnical data report for beach restoration to protect NC Highway 12 at Buxton, Dare County, North Carolina. Report for Dare County Board of Commissioners, Manteo, NC. CSE, Columbia (SC), 84 pp + attachments.
- CSE. 2015. Monitoring and analyses of the 1997 Myrtle Beach–Reach 2 shore protection project. Monitoring Report (2015–Year 10) for City of Myrtle Beach; CSE, Columbia, SC, 77 pp + appendices (2368YR5).
- CSE. 2015. Annual beach and inshore surveys—2006 east end erosion and beach restoration project, Kiawah Island, Charleston County, SC. Monitoring Report #8 for Town of Kiawah Island, SC; Coastal Science & Engineering, Columbia, South Carolina, 71 pp + appendix (2392).
- USACE–NPS. 2015. Environmental assessment — beach restoration to protect NC Highway 12 at Buxton, Dare County, North Carolina. NPS 603/129663, Volume I (204 pp) and Volume II (Appendixes A to G) (2403).
- CSE. 2015. Monitoring and analyses of the 2011 Nags Head beach nourishment project. Year 4 (2015) beach monitoring report for Town of Nags Head, NC. CSE, Columbia (SC), 97 pp + appendices (2387).
- CSE. 2015. Beach monitoring and updated shoreline erosion assessment, Village of Quogue, New York. Monitoring Report for Village of Quogue, NY. CSE, Columbia (SC), 37 pp + appendices (2449).
- CSE. 2015. Beach condition monitoring, Pine Island, Currituck County, North Carolina. Proprietary and confidential report for Pine Island Property Owners Association, Kitty Hawk, NC. CSE, Columbia (SC), 71 pp + appendices (2450).
- CSE. 2015. 2013–2014 Sagaponack and Bridgehampton beach erosion control districts nourishment project, Southampton, Long Island, Suffolk County (NY). Year 2 (2015) Monitoring Report for Town of Southampton, NY. CSE, Columbia (SC), 63 pp + appendices (2434).
- CSE. 2015. Captain Sams Inlet relocation — 2015. Final Report for Seabrook Island Property Owners Association, Johns Island, SC. CSE, Columbia (SC), 61 pp + appendices (2362).
- CSE. 2016. Analysis of beach conditions and recommendations for change in FIMI dune alignment along eastern Ocean Bay Park, Fire Island, NY. Prepared for P Incorvaia. CSE, Columbia (SC), 19 pp + appendices.
- CSE. 2016. Monitoring report Year 1: Captain Sams Inlet relocation. Prepared for Seabrook Island Property Owners Association. CSE, Columbia (SC), 77 pp + appendices.
- CSE. 2016. Analysis of potential downdrift impacts: Hunting Island beach nourishment and groin construction project. Prepared for SC Parks of Recreation and Tourism. CSE, Columbia (SC), 113 pp + appendices.
- CSE. 2017. Final Report: Post-Matthew beach survey and shoreline assessment. Prepared for DeBordieu Colony Community Association. CSE, Columbia (SC), 32 pp.
- CSE. 2017. Monitoring report Year 1: Captain Sams Inlet relocation. Prepared for Seabrook Island Property Owners Association. CSE, Columbia (SC), 73 pp + appendices.
- CSE. 2017. Phase 1 – Feasibility report (Proprietary). Shoreline erosion assessment and alternatives for beach restoration, Sea Island, Georgia. Prepared for Sea Island Company. CSE, Columbia (SC), 101 pp + appendices.
- CSE. 2017. Environmental Assessment (EA). Nags Head beach renourishment Town of Nags Head (NC). Prepared for the U.S. Army Corps of Engineers Regulatory Office, Washington (NC). CSE, Columbia (SC), 129 pp + appendices.
- CSE. 2017. Appendix C – Geotechnical data analysis. Nags Head beach renourishment, Town of Nags Head (NC). Prepared for USACE – NEA documents. CSE, Columbia (SC), 64 pp + appendices.
- CSE. 2017. Downdrift impacts analysis. DeBordieu Colony beach stabilization project (P/N SAC 2017 – 01795). Prepared for USACE and SCDHEC-OCRM on behalf of DeBordieu Colony Community Association, Georgetown (SC). CSE, Columbia (SC), 111 pp + appendices.
- CSE. 2018. Beach condition monitoring (2017), Pine Island, Currituck County (NC). Prepared for Pine Island Property Owners Association (NC). CSE, Columbia (SC), 71 pp + appendices.
- CSE. 2018. Preliminary Report: Beach stabilization assessment lot J-1 area, Jumby Bay Island, Antigua. Prepared for Jumby Bay Island Company, Ltd, West Indies. CSE, Columbia (SC), 27 pp.
- CSE. 2018. Supplementary Report 1: Review and analysis of alternatives, DeBordieu Colony beach stabilization project (P/N SAC 2017 – 01795). Prepared for USACE and SCDHEC-OCRM on behalf of DeBordieu Colony Community Association, Georgetown (SC). CSE, Columbia (SC), 32 pp + appendices.
- CSE. 2018 (May). Annual beach and inshore survey at Seabrook Island (SC). Monitoring Report (Year 3) following Captain Sams Inlet Relocation (2015) for Seabrook Island Property Owners Association, Johns Island (SC). CSE, Columbia (SC), 77 pp + appendices (2460YR3).
- CSE. 2019. Summary Report: Coastal engineering services phase 2, Jumby Bay Island, Antigua. Prepared for Jumby Bay Island Company, Ltd, West Indies. CSE, Columbia (SC), 37 pp + appendices.
- CSE. 2020. Phase 1 Feasibility Study – Inlet Harbour Beach Condition and Restoration Alternatives, Garden City, SC. Report for Inlet Harbour Homeowners Association; CSE, Columbia, SC, 84 pp plus appendices.
- CSE. 2020. Phase 1 Feasibility Report – Shoreline Erosion Assessment and Alternatives for the Avon Beach Restoration. Report for County of Dare, NC; CSE, Columbia, SC, 103 pp plus appendices.
- USACE–NPS. 2021. Environmental assessment — beach renourishment to protect NC Highway 12 at Buxton, Dare County, North Carolina. 222 pp plus appendices A to G.
- USACE–NPS. 2021. Environmental assessment — Avon Village beach nourishment, Dare County, North Carolina. 250 pp plus appendices A to G.