

George Voulgaris

Professor of Earth & Ocean Sciences
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Education

- 1987-1992 Ph.D. in Oceanography. Department of Oceanography, University of Southampton, Southampton, UK (Thesis title: Suspended Sediment Transport in the Nearshore Zone). Awarded February 1st, 1993.
- 1982-1986 B.Sc. in Geology. (4-year Honors Degree). Department of Geology, University of Patras, Patras, Greece. Awarded September 9th, 1986.

Professional Experience

Appointments

- 01/17- present Program Director, Physical Oceanography Program, GEO/OCE, National Science Foundation
- 08/16 – 01/17 Associate Director, School of the Earth, Ocean and Environment
- 09/14 – 8/16 Chair of Department of Earth and Ocean Sciences
- 07/08 - present Professor, Marine Science Program & Department of Earth & Ocean Sciences, University of South Carolina, Columbia, SC, USA
- 09/06 - 06/08 Graduate Studies Director, Department of Geological Sciences, University of South Carolina, Columbia, SC, USA
- 01/05 - 06/08 Associate Professor, Marine Science Program & Department of Geological Sciences, University of South Carolina, Columbia, SC, USA
- 01/00 – 12/10 Visiting Scientist, Applied Physical Oceanography and Engineering. Woods Hole Oceanographic Institution. Woods Hole, MA, USA
- 01/00 - present Associated Faculty, School of the Environment, University of South Carolina, Columbia, SC, USA
- 04/99 - present Research Associate, Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina, Columbia, SC, USA
- 01/99 - 31/04 Assistant Professor, Marine Science Program & Department of Geological Sciences, University of South Carolina, Columbia, SC, USA
- 10/99 - 10/04 Visiting Fellow, School of Ocean & Earth Science, Southampton Oceanography Centre, University of Southampton, Southampton, UK.
- 07/02 - 12/02 Interim Undergraduate Studies Director, Marine Science Program & Department of Geological Sciences, University of South Carolina, Columbia, SC, USA
- 08/98 - 12/98 Visiting Assistant Professor, Marine Science Program & Department of Geological Sciences, University of South Carolina, Columbia, SC, USA
- 10/97 - 08/98 Senior Research Fellow, Southampton Oceanography Centre, Dept. of Oceanography, Southampton, UK.
- 10/95 - 09/97 Postdoctoral Scholar, Woods Hole Oceanographic Institution, Woods Hole, MA, USA
- 1991-95 Research Fellow, Dept. of Oceanography, The University, Southampton, UK.
- 1990-91 Research Assistant, Dept. of Oceanography, The University, Southampton, UK
- 1987 Research Assistant, Agricultural University of Athens, Athens, Greece

Editorship

2015 – to date	Associate Editor, Continental Shelf Research.
2013 – 2015	Member of Editorial Board, Continental Shelf Research.
2013	Guest Editor, Journal of Coastal Research.
2006 - 2009	Associate Editor, Journal of Geophysical Research, Oceans. American Geophysical Union.

External Advisor

External Member of Department Evaluation Panels

2013	External reviewer for the Hellenic Quality Assurance and Accreditation Agency (HQAA): Evaluation of the School of Mining and Metallurgical Engineering at the National Technical University of Athens, Greece. (available at: http://www.hqaa.gr/external/NTUA_MiningMetalEng_2013.pdf)
2012	External reviewer for the Hellenic Quality Assurance and Accreditation Agency (HQAA): Evaluation of the Department of Geological and Geographical Sciences of the University of Athens, Greece. (available at: http://www.hqaa.gr/external/UniAthens_Geology_2012.pdf)
2012	External evaluation of the Department of Geology, East Carolina University, NC.

External Evaluator of Faculty Tenure and/or Promotion

2015	Greek Ministry of Education of Greece, University of Athens, Department of Geology and Geoenvironment (External Evaluator).
2015	Greek Ministry of Education of Greece, University of Patras, Department of Geology. (Member of Electorate Committee).
2013	Woods Hole Oceanographic Institution, Department of Physical Oceanography, Woods Hole, MA.
2013	Department of Geology, University of Patras, Patras, Greece (2 occasions).
2012	Greek Ministry of Education of Greece, Technological Educational Institute (TEI) of Larissa, School of Technological Applications, Dept. of Infrastructure Engineering, Larissa, Greece.
2012	Greek Ministry of Education of Greece, Technological Educational Institute (TEI) of Lamia, Department of Environmental Management, Lamia, Greece (Alternate member).
2012	Greek Ministry of Education of Greece, Technological Educational Institute (TEI) of Messolonghi, Dept. of Aquaculture & Fisheries Management, Messolonghi, Greece.
Sep.2012	Stevens Institute of Technology, NJ
Sep 2011	Rosentiel School of Marine Sciences
Sep 2011	Rosentiel School of Marine Sciences
Sep 2010	Rosentiel School of Marine Sciences

Advisory Appointments

2012 – to date	Member of Board of Directors for the SE Coastal Ocean Observing Regional Association (SECOORA).
2010 – 2014	Member of the Scientific Committee of the Key Laboratory for Coast and Island. Development, Ministry of Education, Nanjing University, China.
2008 - to date	Member of Science Committee for the SE Coastal Observing Research Association (SECOORA).
2009	Chair of Review Panel, Science Foundation of Ireland, Dublin, Ireland.
2008 - 2009	European Union (6 th Framework Program), Project Reviewer, Brussels.
2008	Panelist for NOAA/NY Sea Grant Program.
2007	US Department of Energy, External Reviewer for NA22, Savannah, GA, USA.
2005 - 2009	Member of Review Panel, Science Foundation of Ireland, Dublin, Ireland.
2006	Expert for the European Commission, European Union 6 th Framework Program, Brussels, Belgium.

External Examiner

2016	External PhD Examiner for Indian Institute of Technology, Kharagpur, Dept. Ocean Eng. And Naval Architecture, India
2013	External PhD Examiner for Anna University, Center for Research, Chennai, India
2007	External PhD Examiner for Pondicherry University, India
2008	External PhD committee Member for Dept. Marine Sciences, University of North Carolina at Chapel Hill

Professional / Technical Advisor

2015	DeBordieu Colony Community Association (Consultant).
2011	Research Planning Inc., Columbia, SC, USA (Consultant).
2009	Research Planning Inc., Columbia, SC, USA (Consultant).
2007	CWS Consulting Inc. Charlotte, NC, USA.
2008 - 2010	Technical Advisory Committee for the SC Energy Office on Offshore Wind Energy.
2008 - 2011	Member of Advisory Board for Coastal Processes, NOAA/SC Sea Grant Consortium
2003 - 2009	Research Planning Inc., Columbia, SC, USA.
2000 - 2002	Laboratory of Hydraulic Engineering, Department of Civil Engineering, University of Cartagena, Cartagena, Colombia.
1997 - 1998	Southern Water Authority, Southern Science Ltd., Hampshire Laboratory, Sparrowgrove, Otterbourne, Winchester, Hants SO21 2SW, U.K.
1995 - 1998	Associate for the Applied Coastal Research unit of the Department of Oceanography, University of Southampton.
1996 & 2004	Korea Ocean Research & Development Institute. Marine Geology Laboratory. Ansan, P.O. Box 29, Seoul 425-600, Korea.
1989	University of Patras, Dept. of Geology. Laboratory of Marine Geology and Physical Oceanography. Patras-Rion, Greece.

Professional Societies

Member of the American Geophysical Union (AGU)
Member of the Geological Society of America (GSA)
Member of the Coastal Education and Research Foundation (CREF)
International Association of Sedimentologists (IAS)
Marine Technology Society (MTS)

Research Interests

Shoreline evolution; nearshore and beach processes; surf-zone and continental shelf circulation and sediment transport; wave-current interaction; sediment re-suspension; hydrodynamic and turbulence measurements in the field and laboratory; time-series analysis; tidal propagation in estuaries and lagoons; numerical model applications to coastal zone; operational oceanography; HFR Surface Radar measurements; Ocean Observing technologies.

Prizes / Scholarships / Awards

2014	Recipient of 2014 USC Educational Foundation Award for Research in Science, s and Engineering.
2010-11	DAAD (Deutscher Akademischer Austauschdienst) Research Visit Award (2 months, Institute of Oceanography, University of Hamburg, Hamburg, Germany).
2010	Invited Visiting Professor at the University of Rouen, France (1 month, Laboratoire UMR 6143 Morphodynamique Continentale et Côtière).
2004	University of South Carolina Two Thumbs Up Award for Faculty/Staff for their effort in making a difference.
2001	University of South Carolina Two Thumbs Up Award for Faculty/Staff for their effort in making a difference.
1999/00/01/02	University of South Carolina, School of the Environment Travel Award.
1995-97	Postdoctoral Award in Ocean Science and Engineering. Woods Hole Oceanographic Institution.
1987-90	State Scholarship Foundation of Greece scholarship for Doctorate thesis (awarded after examinations).
1986	Yannis Papastamatiou prize for the best graduate; awarded by the Greek Institute of Geological and Mineralogical Exploration (IGME) (Award No: 38/2/25-1-84).
1984	State Scholarship Foundation of Greece award for academic performance during year 1983/84.
1983	State Scholarship Foundation of Greece award for academic performance during year 1982/83.

Research Grants Awarded (Total To-Date > \$6.8M)

- (43) *NSF (OCE). Intergovernmental Personnel Assignment (IPA). PI: G. Voulgaris, Duration: 01/09/2018 – 01/08/2019. Amount \$227,993*
- (42) *Southeast Coastal Ocean Observing Regional Association (SECOORA): Supporting Resilient Ecosystems, Communities and Economies”- Operate and Maintain University of South Carolina IOOS Priority High Frequency Radars in SECOORA*
Sponsor: Southeast Coastal Ocean Observing Regional Association (SECOORA)/NOAA
Total Awarded: \$180,000
Duration: 6/1/2016 – 5/31/2018
- (41) *RAPID - Plume Dynamics under Increased Sediment Discharge following Floods (13040-FC42)*
Co-PI A. Yankovsky.
Sponsor: National Science Foundation
Total Awarded: \$70,129
Duration: 11/15/2015 – 10/31/2016

- (40) SCFLOODS: Rapid Assessment of Bridge Scouring and Recovery Following Extreme Flood Events. Co-PIs E. Viparelli, P. Ziehl & I. Rekleitis
Sponsor: Office of Vice President for Research, University of South Carolina.
Total Awarded: \$27,183
Duration: 10/23/2015 – 05/15/2015
- (39) Southeast Coastal Ocean Observing Regional Association (SECOORA): A Framework for Monitoring, Prediction and Assessment to Support Decision-Makers Needs for Coastal and Ocean Data and Tools - USC HF Radar (13040-FC33)
Sponsor: Southeast Coastal Ocean Observing Regional Association (SECOORA)/NOAA
Total Awarded: \$117,276
Grant # IOOS.11(033)USC.GV.OBS.5, 06/01/2015 - 05/31/2016
- (38) Coastal Processes and Deltaic Environments: Research and Global Education.
Sponsor: Office of the Provost, University of South Carolina (13040-A021)
Total Awarded: \$7,357
Grant # 13040-15-38938, 08/01/2015 - 09/30/2015
- (37) Southeast Coastal Ocean Observing Regional Association (SECOORA): A Framework for Monitoring, Prediction and Assessment to Support Decision-Makers Needs for Coastal and Ocean Data and Tools - USC HF Radar (13040-FC16)
Sponsor: Southeast Coastal Ocean Observing Regional Association (SECOORA)/NOAA
Total Awarded: \$104,286
Grant # IOOS.11(033)USC.GV.OBS.3, 09/01/2013 - 08/31/2014
- (36) Benthic Boundary Layer Processes and Sediment Transport during Hurricane Sandy on Fire Island, NY (13040-FC14)
Sponsor: U.S. Geological Survey (USGS)/DOI
Total Awarded: \$220,000
Grant # G13AC00246, 08/01/2013 - 02/01/2014
- (35) Southeast Coastal Ocean Observing Regional Association (SECOORA): An Environmental Monitoring and Assessment Program to Support Decision-Makers Needs for Coastal and Ocean Data and Products - USC HF Radar (13040-FC05)
Sponsor: Southeast Coastal Ocean Observing Regional Association (SECOORA)/NOAA
Total Awarded: \$104,286
Grant # IOOS.11(033)USC.GV.OBS.2, 09/01/2012 - 08/31/2014
- (34) Integration of Coastal Observations and Assets in the Carolinas in Support of RCOOS Development in SECOORA (13040-FB42)
Sponsor: Univ of North Carolina Wilmington/DOC
Total Awarded: \$888,302
Grant # 515170-07-1, 11/01/2007 - 08/31/2012
- (33) Southeast Coastal Ocean Observing Regional Association (SECOORA): An Environmental Monitoring and Assessment Program to Support Decision-makers Needs for Coastal and Ocean Data and Products: SC HF Radar & Rip-Current Modeling Tasks (13040-FB94)
Sponsor: Southeast Coastal Ocean Observing Regional Association (SECOORA)/NOAA/DOC
Total Awarded: \$666,231
Grant # IOOS.11(033)USC.GV.OBS.1, 06/01/2011 - 08/31/2014
- (32) Characterization of Wave and Current Energy Levels in Estuarine Waters for Ecological and Particulate Dispersion Studies: Case Study Winyah Bay, SC (13040-FB83)
Sponsor: South Carolina Sea Grant Consortium (SCSGS)/NOAA
Total Awarded: \$58,091
Grant # M269, 02/01/2011 - 07/31/2012

- (31) RAPID: Collaborative Research: HF Radar Surface Current Measurements in Support of Constraining Shelf Edge Exchange in the SAB under Wind, Tidal and Gulf Stream Influence (13040-FB86)
Sponsor: National Science Foundation (NSF)
Total Awarded: \$111,273
Grant # OCE-1132130, 04/01/2011 - 03/31/2014
- (30) Implementation of Regional Integrated Ocean Observing Systems Support of RCOOS Development in SECOORA: HF Radar & SC Station Maintenance-FWRI (Year 3: 08/01/2010-07/31/2011) (13040-FB80)
Sponsor: SC Sea Grant Consortium/NOAA
Total Awarded: \$59,999
Grant # S661, 08/01/2010 - 07/31/2012
- (29) Water Quality Dynamics in Long Bay, SC (13040-GA20)
Sponsor: SC Sea Grant Consortium/OCRM-SCDHEC
Total Awarded: \$13,660
Grant # E103, 07/01/2010 - 09/23/2011
- (28) Characterization of Wave and Current Energy Levels in Estuarine Waters for Ecological and Particulate Dispersion Studies: Case Study Winyah Bay, SC (13040-FB76)
Sponsor: SC Sea Grant Consortium (SCSGS)/NOAA
Total Awarded: \$58,091
Grant # M169, 02/01/2010 - 09/30/2011
- (27) Implementation of Regional Integrated Ocean Observing Systems Support of RCOOS Development in SECOORA: HF Radar - University of South Carolina FWRI (Year 2: 08/01/2009 - 07/31/2010) (13040-FB71)
Sponsor: SC Sea Grant/NOAA
Total Awarded: \$37,499
Grant # S554, 08/01/2009 - 11/30/2010
- (26) Benthic Boundary Layer Sediment Transport in the Carolinas (13040-FB56)
Sponsor: U.S. Geological Survey (USGS)/DOI
Total Awarded: \$34,989
Grant # G03AC00007, 07/01/2008 - 06/30/2013
- (25) Physical Controls on Benthic Fluxes of Microalgae and Particulate Organic Matter in Estuarine Environments (13040-FB65)
Sponsor: SC Sea Grant Consortium/NOAA
Total Awarded: \$126,909
Grant # R469, 02/01/2009 - 07/31/2010
- (24) In Situ Validation of a HF Coastal Radar (Training on WERA Operation and Maintenance) (13040-FB58)
Sponsor: Skidaway Institute of Oceanography/SC Sea Grant Consortium/NOAA
Total Awarded: \$15,000
Grant # 373/300009,09/01/2008 - 08/31/2009
- (23) Collaborative Research: Regional Ocean - Benthic Observatory and Technology Testbed on the Mid Shelf--Understanding Processes (13040-FB06)
Sponsor: National Science Foundation (NSF)
Total Awarded: \$292,869
Grant # OCE-0535893, 01/01/2006 - 12/31/2012

- (22) Physical Controls on Benthic Fluxes of Microalgae and Particulate Organic Matter in Estuarine Environments (13040-FB49)
Sponsor: SC Sea Grant Consortium/NOAA
Total Awarded: \$126,909
Grant # R369, 02/01/2008 - 07/31/2009
- (21) Collaborative Research: Observation and Modeling of Inner Shelf Sediment Dynamics and Large-Scale Sorting: Cross-shelf or Alongshelf Transport? (13040-FB13)
Sponsor: National Science Foundation (NSF)
Total Awarded: \$369,695
Grant # OCE-0451989, 04/01/2006 - 03/31/2011
- (20) In Situ Validation of a HF Coastal Radar (13040-FB43)
Sponsor: Skidaway Institute of Oceanography/SC Sea Grant Consortium/NOAA
Total Awarded: \$15,000
Grant # 372/0000003485, 11/15/2007 - 09/30/2008
- (19) Numerical Study of the Physical Conditions that Lead to Hypoxia Events in Long Bay, SC. (13040-FB10, 13040-FB35)
Sponsor: SC Sea Grant Consortium/NOAA
Total Awarded: \$167,724
Grant # R269, 02/01/2007 - 11/30/2008
- (18) CRISIS: Understanding and predicting resiliency of barrier islands: The extreme case condition for SC beaches. (13040-KA11)
Sponsor: University of South Carolina / Research Foundation
Total Awarded: \$24,593
Duration: 9/23/05-3/23/06.
- (17) An Integrated Response to Nearshore Hypoxia Events through Coastal Ocean Observing Systems. (21600 – xxxxx, multi institutional)
Sponsor: SC Sea Grant Consortium/NOAA
 PI. Braxton Davis, (Submitted through Baruch Institute), Co-PIs: D. Porter, D. Sanger (OCRM), D. Hernandez (OCRM), S. Libes (CCU), G. Voulgaris, E. Koepfler (CCU), J. Bennett (CCU), E. Smith (Baruch).
Total Awarded: \$94,845.
Duration: 1/7/05 – 30/6/06.
- (16) SC Coastal Erosion Study: Shelf Circulation, Wave Propagation and Sediment Transport in Long Bay, SC: Measurements and Modeling (13040-FB08, 13040-FB28)
Sponsor: U.S. Geological Survey (USGS)/DOI
Total Awarded: \$172,293
Duration: 09/01/2005 - 08/31/2007
- (15) Acoustic measurements of POC concentrations in the coastal ocean (13040-FA87, with M. Goni, USC)
Sponsor: NOAA / OAR. Organic Carbon Cycle Program
Total Awarded: \$333,987
Duration: 05/01/04 – 04/30/07
- (14) Southeast Atlantic Coastal Ocean Observing Systems (SEA-COOS) (with M. Fletcher & D. Porter, USC) (21600-FA93)
Sponsor: Office of Naval Research.
Total Awarded: \$838,000
Duration 09/1/04-08/31/05.

- (13) Towards Quantifying Coastal Erosion in SC: Ship Time and Marine Operations.
Sponsor: NOAA/OAR
Total Awarded: \$22,000
Duration 11/1/03 – 09/30/04.
- (12) Coastal Erosion Study: Shelf Circulation, Wave Propagation and Sediment Transport in Long Bay, SC: Measurements and Modeling.
Sponsor: US Geological Survey / DOI.
Total Awarded: \$291,300
Grant #13040-FB28, Duration: 9/1/03-8/31/05.
- (11) CORMP 2003-2004: Particle Size Characterization of the Cape Fear Plume.
Sponsor: Univ. of North Carolina Wilmington/DOC
Total Awarded: \$35,000
Duration 08/01/03 – 07/30/2004.
- (10) Towards Quantifying Coastal Erosion in SC. Offshore Shoals as Sediment Sinks and Controls for Shoreline Change.
Sponsor: SC Sea Grant Consortium.(with P. Work, Clemson Univ.)
Total Awarded: \$145,578
Duration: 03/03 – 02/05
- (9) Intertidal Marsh Hydrology and Geomorphology (with R. Torres, USC).
Sponsor: National Science Foundation (NSF-Hydrology).
Total Awarded: \$113,000
Duration: 01/03 – 1/05.
- (8) EPA/EPSCoR. A Multidisciplinary Approach to Quantify and Model the Transport and Deposition of Organic Pollutants in Coastal Environments. (with M. Goni and J. Ferry, USC)
Sponsor: Environmental Protection Agency/EPSCoR
Total Awarded: \$402,555
Duration: 06/01 – 05/03.
- (7) Sediment Mobility in the Charleston Disposal Site.
Sponsor: US Army Corps of Engineers / SC DNR
Total Awarded: \$22,000
Duration: 08/01-04/02
- (6) Coastal Erosion Study, Phase II. Variation and Controls of Beach Morphology Along the Coast of South Carolina.
Sponsor: US Geological Survey (DOI) / SC Sea Grant (NOAA)
Total Awarded: \$48,946
Duration: 09/00 – 08/02.
- (5) Coastal Erosion Study, Phase II. Hydrodynamic Framework of Long Bay, SC: Measurements of Waves and Coastal Currents (with P. Work, Clemson Univ.)
Sponsor: US Geological Survey (DOI) / SC Sea Grant (NOAA)
Total Awarded: \$18,500
Duration: 09/00 – 08/03.
- (4) Nearshore Impacts of Offshore Dredging for Beach Nourishment. (with P. Work, Clemson Univ)
Sponsor: SC Sea Grant Consortium / NOAA
Total Awarded: \$39,901
Duration: 03/00 – 02/02.

- (3) Towards Enhanced Modeling Benchmarks and Predictability in Coastal Margins: Can Two Wrongs Make a Right?
Sponsor: Office of Naval Research:
Total Awarded: \$32,055
Duration: 04/99 – 01/02.
- (2) Spatial Variability of Bottom Turbulence over a Linear Sand Bank.
Sponsor: Natural Environment Research Council (NERC), UK.
Total Awarded: \$73,342
Duration: 04/99 – 11/ 00.
- (1) Turbulence and Fractional Sediment Transport in Salt Marshes.
Sponsor: USC – Research & Productive Scholarship Award.
Total Awarded: \$6,000
Duration: 11/99 to 11/00.

Courses Taught

- (1) Coastal Environments of the SE USA (200 level for non-science majors)
- (2) Coastal Processes (500 level)
- (3) Marine Hydrodynamics (700 level)
- (4) Seminar in Sedimentology (800 level)
- (5) Oceanographic Techniques (700 level)
- (6) Ocean Data Analysis (700 level)
- (7) Physical Oceanography (300 level)

Research Program Supervised

Faculty Host

- (4) Dr. Serafeim Poulos, Associate Professor. Department of Geology and Geo-environment, National and Kapodistrian University of Athens, Athens, Greece. August 9 – September 10, 2015
- (3) Dr. Jianhua Gao, Assistant Professor. Ministry of Education Key Laboratory of Coastal and Island Development. Nanjing University, Nanjing, China. Visiting Assistant Professor. October, 2012 – October 2013.
- (2) Dr. Dwarakish, Assistant Professor, Assistant Professor, Dept. of Applied Mechanics & Hydraulics, National Institute of Technology Karnataka, Surathkal, India. Visiting Assistant Professor. February 2012.
- (1) Dr. Yaping Wang, Associate Professor. Ministry of Education Key Laboratory of Coastal and Island Development. Nanjing University, Nanjing, China. Visiting Associate Professor. October, 2011 – February 2012.

Post-Doctoral

- (4) Tanjia Mildner (PhD in Oceanography, 2013, University of Hamburg). Part-time post-Doctoral

Research Associate, December 2013 – to date.

- (3) Jeffery P. Morin (Ph.D. in Oceanography, 2008. University of Texas, A&M). Post-Doctoral Research Associate. January 2007 - March 2010.
- (2) Rosario Sanay (Ph.D. in Physical Oceanography, 2003. Old Dominion University, Center for Physical Oceanography). Post-Doctoral Research Fellow, February 2004 – December 2007.
- (1) Hector Perales (Ph.D. in Computational Fluid Dynamics, 2003, Morelos State University, Mexico). Post-Doctoral Research Fellow, February 2004 – December 2007.

Doctoral

- (11) Zaid Rahman (BSc Physics, Iraq). Ph.D. Student. Department of Earth & Ocean Sciences. May 2014 – to date.
- (10) Douglas Cahl (MS Maine University). Ph.D. Student. Department of Earth & Ocean Sciences. July 2013 – to date.
- (9) Xiaodong Wu (BS Nanjing University, China). Ph.D. Student. Marine Science Program. *In Progress*: August 2013 – to date.
- (8) William R. Doar (BS East Carolina University). Ph.D. Thesis: “The Geologic Implications of the Factors that Affected Relative Sea-level Positions in South Carolina During the Pleistocene and the Associated Preserved High-stand Deposits”. Department of Earth & Ocean Sciences, University of South Carolina, December 2014.
- (7) Nirnimesh Kumar (BS Ocean Engineering, IIT, India). Ph.D. Thesis: “*Hydrodynamic and Sediment Dynamic Processes in the inner shelf and surf zone*”. Marine Sciences Program, University of South Carolina, August 2013.
- (6) Timothy Nelson, (BS Geology, University of Kentucky), Ph.D., Thesis: “*Bed Morphology and Sediment Resuspension Processes on the Inner Shelf*”. Department of Earth and Ocean Sciences, University of South Carolina, December 2013
- (5) Mauro Maza (BS Civil Engineering, University of Cartagena, CO), Ph.D. Thesis: “*Inner shelf circulation off Cartagena de Indias, Caribbean coast of Colombia*”, Marine Sciences Program, University of South Carolina, 2011
- (4) Kerry McCarney (MS Geology, University of Reading, UK). Ph.D Thesis: “*Simulating anthropogenic and climatic influences of fluvial sediment load in the southern US and central Europe*”. Department of Earth and Ocean Sciences, University of South Caroline, November 2010.
- (3) Benjamin Gutierrez (MS WHOI/MIT Joint Program, MA), Ph.D. Thesis: “*The Development and Maintenance of Sedimentary Features on Wind-Driven Shelves*”. Department of Geological Sciences, University of South Carolina. December 2006.
- (2) Yong Hoon Kim (MS Oceanography, Seoul National University, Korea), Ph.D. Thesis: “*Sediment and Contaminant Transport in Estuaries: Case Study Winyah Bay, SC*”, Department of Geological Sciences, University of South Carolina. December 2006.
- (1) Genevieve Healy, (MS Geology, Rosenstiel School of Marine and Atmospheric Science, FL) Ph.D. Thesis: “*A Cognitive Assessment on the Integration of GIS into K-12 Geoscience Curriculum*”, Department of Geological Sciences. University of South Carolina. January 2005.

Masters

- (6) Conor Ofsthun (BS Geology, Tufts University). MS Geological Sciences. "Alongshore Momentum Balance over Shoreface-Connected Ridges, Fire Island, NY" August 15, 2014 – August 2016.
- (5) Gwen Simmons, (BS, Geology, Hamilton College). MS Marine Sciences. "Characterization of Wave and Current Energy Levels in Estuarine Waters for Particulate Dispersion Studies: Case Study Winyah Bay, South Carolina", September 31st, 2012.
- (4) Nirnimesh Kumar (BS Ocean Engineering, IIT, India), 2010. MS Geological Sciences. Thesis Title: "3-D Modeling of Nearshore Circulation using ROMS-SWAN: Model Updates and Evaluation". March 31st, 2010.
- (3) Wayne Baldwin (BS Geology, Coastal Carolina University, SC), 2002. MS Geological Sciences. Thesis Title: "Effects of Local and Regional Antecedent Geology on the Modern Inner Continental Shelf: Southern Long Bay, South Carolina", April 9th, 2002.
- (2) Peter Slovinsky (BA Geology, Franklin & Marshall College, PA), 2001. MS Geological Sciences. Thesis Title: "Spatial Variation of Beach Morphology Along Coastal South Carolina", November 19th, 2001.
- (1) Samuel T. Meyers (BS Geology, Eckerd College, FL), 2001. MS Marine Science Program. Thesis Topic: "Short-term, Small-scale Effects of Turbulence, Flocculation, and Meteorological Events on Sediment Transport in the Bly Creek Tidal Channel, North Inlet, South Carolina", November 15th, 2001.

Other Supervision

- (9) Junbiao Tu, Fall 2016 & Spring 2017. . Visiting Graduate (Ph.D.) Student, School of Ocean and Earth Science, State Key Laboratory of Marine Geology, Tongji University, Shanghai, China
- (8) M. Bayee, Summer 2010 & Summer 2011. Visiting Graduate (Ph.D.) Student, University of Ghent, Belgium.
- (7) A. Beudin, Summer 2009. Graduate Student Intern in my Lab at USC. Ecole Nationale des Travaux Publics de l'Etat, France
- (6) P. Salles , 1997-2001. Stability of Multiple Tidal Inlets, MIT/WHOI Joint Program graduate student (2nd advisor).
- (5) B.T. Gutierrez, 1996-1997. Holocene Coastal Evolution on the South Shore of Cape Cod, Massachusetts, MIT/WHOI Joint Program graduate student (2nd advisor).
- (4) T. Mason, 1994-1997. Hydrodynamics and sediment transport processes on macrotidal, mixed beaches. PhD Thesis. Southampton University, Oceanography Department (co-advisor).
- (3) M. Pinkerton, 1993. Suspended sand transport under wave-current interaction at La Salie, Archachon, France. MSc Thesis, Southampton University, Oceanography Department, 54pp. (co-advisor)
- (2) L. Crosnier, 1993. Shear stress due to combined action of waves and currents, using field measurements from Christchurch Bay, S. England. ERASMUS exchange student project. Southampton University, Oceanography Department, 35pp. (Major advisor)
- (1) E.C. Kent, 1988. An experimental determination of longshore drift in the Poole Bay area. MSc Thesis, Southampton University, Oceanography Department, 122pp. (2nd advisor)

Reviewer

I have been a reviewer for the following journals: Continental Shelf Research; Journal Atmospheric and Oceanic Technology; Journal of Geophysical Research, Oceans; Geophysical Research Letters; IEEE Journal of Ocean Engineering; Estuarine and Coastal Processes; Estuaries; Earth Surface Processes and Landforms; Sedimentology; Marine Geology; Earth Surface Processes and Landforms; Journal of Sedimentary Petrology; New Zealand Journal of Geology and Geophysics; Journal of Coastal Research; Limnology & Oceanography.

Also, I have been a reviewer for proposals submitted to the following agencies: NOAA / National Undersea Research Center at UNCW and New Jersey; the Natural Environmental Research Council (NERC), UK; National Science Foundation (NSF); US Civilian Research and Development Foundation; Science Foundation of Ireland (SFI, Panel member and chair); EU-6th Framework Program (Expert); NOAA-CREST program; Greek Ministry of Education (Thalis and Archimedes research initiatives).

Publications

Books & Book Chapters

- (3) **Voulgaris, G.**, Lab 12: Coastal Processes, Beaches and Waves. In: Department of Earth and Ocean Sciences, USC, Laboratory Manual and Workbook for GEOL 101, Introduction to the Earth. A Departmental Lab Manual for Students taking GEOL 101 at USC.
- (2) **Voulgaris, G.**, N. Kumar and J.C. Warner, 2011. *Chapter 5: Methodology for Prediction of Rip Currents Using a Three-Dimensional Numerical, Coupled, Wave Current Model*. In: **Rip Currents: Beach Safety, Physical Oceanography, and Wave Modeling**. Editor(s): Stephen Leatherman, *Florida International University, Miami, FL, USA*; John Fletemeyer, pp. 87-106.
- (1) **Voulgaris G.**, (Editor). Coastal Environments of the SE U.S., Laboratory Manual. Marine Science Program, Department of Geological Sciences, University of South Carolina, Columbia, SC. Distributed as a PDF file to USC students free of charge.

Refereed Journal & Proceeding Papers (+ denotes graduate student)

- (93) Ofsthun, C.⁺, Wu, X.⁺, **Voulgaris, G.**, and Warner, J.C. *In Prep*. Alongshore Momentum Balance Over Shoreface-Connected Ridges, Fire Island, NY
- (92) Wu, X.⁺, **Voulgaris G.** and N. Kumar, *In Review*. Shelf Cross-Shore Flows under Storm-driven Conditions: Role of Stratification and Shoreline Orientation, *Journal of Physical Oceanography*.
- (91) Tu, J., Fan, D., Zhang, Y. and **Voulgaris, G.** *In Review*. Turbulence, Tidal Straining, and Suspended Sediment in a Hypertidal Environment: Qiantang Estuary. *Journal of Geophysical Research - Oceans*
- (90) Kumar, N., Cahl, D.⁺, Crosby, S., and **Voulgaris, G.**, 2017. Bulk vs. Spectral Wave Parameters: Implications on Stokes Drift Estimates, Regional Wave Modeling, and HF Radars Applications. *Journal of Physical Oceanography*, 47(6): 1,413 – 1,431. doi: 10.1175/JPO-D-16-0203.1
- (89) Sahin, C., Verney, R., Sheremet, A., and **Voulgaris, G.**, 2017. Use of Acoustic Doppler Current Profilers for Measuring Suspended Sediment Concentrations and Fluxes in Cohesive Sediments, *Continental Shelf Research*, 134: 39 – 51.
- (88) Wu, X.⁺, **Voulgaris G.** and N. Kumar, 2017. Parameterization of synoptic weather systems in the South Atlantic Bight for modeling applications. *Ocean Dynamics*, DOI 10.1007/s10236-017-1084-x
- (87) Nelson, T.R.⁺ and **G. Voulgaris**, 2015. A Spectral Model for Estimating Temporal and Spatial Evolution of Rippled Sea Beds. *Ocean Dynamics*. 65(2): 155-171. doi 10.1007/s10236-014-0801-y

- (86) Warner, C.J., J.H. List, W.C. Schwab, **G. Voulgaris**, B. Armstrong, N. Marshall, 2014. Inner-shelf circulation and sediment dynamics on a series of shoreface connected ridges offshore of Fire Island, NY. *Ocean Dynamics*, 64 (12): 1767-1781.
- (85) Nelson, T.R.⁺ and **G. Voulgaris**, 2014. Temporal and Spatial Evolution of Wave-Induced Ripple Geometry: Regular vs. Irregular Ripples. *Journal of Geophysical Research – Oceans*, 119, doi: 10.1002/2013JC009020
- (84) Wang, Y-P., **G. Voulgaris**, Y. Li, Y. Yang, J. Gao, J. Chen and S. Gao, 2013. Sediment Resuspension, Flocculation and Settling in a Macrotidal Estuary. *Journal of Geophysical Research – Oceans*, 118:5,591-9,608. doi 10.1002/jgrc.20340
- (83) Kumar, N.⁺, **G. Voulgaris**, J.H. List and J.C. Warner, 2013. Alongshore Momentum Balance Analysis on a Cuspate Foreland. Submitted to *Journal of Geophysical Research, Oceans*. 118, doi: 10.1002/jgrc.20358.
- (82) Nelson, T.R.⁺, **G. Voulgaris** and P. Traykovski, 2013. Predicting Wave-Induced Ripple Equilibrium Geometry. *Journal of Geophysical Research – Oceans*, 118(6): 3,202-3,220. doi 10.1002/jgrc.20241.
- (81) Kana, T., Michel, J. and **Voulgaris G.** 2013. Introduction and Tribute. *Journal of Coastal Research: Special Issue 69 - Proceedings, Symposium in Applied Coastal Geomorphology to Honor Miles O. Hayes*: pp. iv – viii. doi: 10.2112/SI_69_1
- (80) Weathers, H.D. and **G. Voulgaris**, 2013. Evaluation of Beach Nourishment Evolution Models using Data from two South Carolina Beaches: Folly Beach and Hunting Island, SC, USA. *Journal of Coastal Research, Special Issue 69 - Proceedings, Symposium in Applied Coastal Geomorphology to Honor Miles O. Hayes*: pp. 84 – 98. doi. 10.2112/SI_69_7
- (79) Denny, J.F., W.C. Schwab, W.E. Baldwin, W.A. Barnhardt, P.T. Gayes, R.A. Morton, J.C. Warner, N.W. Driscoll and **G. Voulgaris**, 2013. Holocene Sediment Distribution on the Inner Continental Shelf of Northeastern South Carolina: Implications for the regional sediment budget and long-term shoreline response, *Continental Shelf Research*, Available online 26 February 2013, doi 10.1016/j.csr.2013.02.004.
- (78) Sanger, D.M., E.M. Smith, **G. Voulgaris**, E.T. Koepfler, S.M. Libes, G.H.M. Riekerk, D.C. Bergquist, D.I. Greenfield, P.A. Wren, C.A. McCoy, R.F. Viso, R.N. Peterson and J.D. Whitaker, 2012. Constrained Enrichment and Hypoxia Formation in Long Bay, South Carolina (USA), an Open Water Urbanized Coastline. *Marine Ecology Progress Series*, 461: 15–30, doi: 10.3354/meps09796.
- (77) Warner, J.C., B. Armstrong, C.S. Sylvester, **G. Voulgaris**, T. Nelson⁺, W.C. Schwab and J.F. Denny, 2012. Storm-induced inner-continental shelf circulation and sediment transport: Long Bay, South Carolina. *Continental Shelf Research*, 42: 51-63.
- (76) Kumar⁺, N., **G. Voulgaris** J.C. Warner, M. Olabarietta, 2012. Implementation of the vortex force formalism in the Coupled Ocean-Atmosphere-Wave-Sediment Transport (COAWST) modeling system for inner shelf and surf zone applications. *Ocean Modeling*, 47: 65-95, doi: 10.1016/j.ocemod.2012.01.003
- (75) Shen, W., K-W. Gurgel, **G. Voulgaris**, T. Schlick and D. Stammer, 2012. Wind-speed inversion from HF radar first-order backscatter signal. *Ocean Dynamics*, 62(1):105-121. doi 10.1007/s10236-011-0465-9.
- (74) McCarney-Castle, K.⁺, **Voulgaris, G.**, Giosan, L., and Kettner, A.J., 2012. Simulating fluvial fluxes in the Danube watershed: The Little Ice Age versus modern day. *The Holocene*, 22(1): 91-105, doi 10.1177/0959683611409778
- (73) Baeye, M., M. Fettweis, **G. Voulgaris** and V. van Lancker, 2011. Sediment mobility in response to tidal and wind driven flows along the Belgian inner shelf, southern, North Sea. *Ocean Dynamics*, doi 10.1007/s10236-010-0370-7.

- (72) Kumar⁺, N., **G. Voulgaris**, and J.C. Warner, 2011. Implementation and modification of a three-dimensional radiation stress formulation for surf zone and rip-current applications. *Coastal Engineering*, 58: 1097–1117. doi:10.1016/j.coastaleng.2011.06.009
- (71) McCoy, C., R. Viso, R. Peterson, S. Libes, B. Lewis, J. Ledoux, **G. Voulgaris**, E. Smith and D. Sanger, 2011. Radon as an indicator of limited cross-shelf mixing of submarine groundwater discharge along an open ocean beach in the South Atlantic Bight during observed hypoxia. *Continental Shelf Research*, 31(12): 1,306-1,317, doi:10.1016/j.csr.2011.05.009.
- (70) List, J.H., J.C. Warner, E.R. Thieler, K. Haas, **G. Voulgaris**, J.E. McNinch, and K.L. Brodie, 2011. A nearshore processes field experiment at Cape Hatteras, North Carolina, U.S.A. Proc. Coastal Sediments 2011. World Scientific, pp. 2,144-2,157.
- (69) Kumar⁺, N., **G. Voulgaris**, and J.C. Warner, 2011. Measurements and 3-D Modeling of Nearshore Circulation on a South Carolina Beach. *Shore and Beach*, 79(2): 9-18.
- (68) **Voulgaris, G.**, N. Kumar, K.-W. Werner, J.C. Warner and J. H. List, 2011. 2-D Inner-Shelf Current Observations from a Single VHF Wellen Radar (WERA). Current, Waves and Turbulence Measurements (CWTM), IEEE/OES 10th Working Conference on., 20-23 March, 2011, pp 57-65 ISBN: 978-1-4577-0022-4.
- (67) Frederics, J., J. Bosch, T. Cook, D. Simmons, E. Terray and **G. Voulgaris**, 2011. Enabling quality assessment through web services. Current, Waves and Turbulence Measurements (CWTM), IEEE/OES 10th Working Conference on., 20-23 March, 2011, pp 57-65 ISBN: 978-1-4577-0022-4.
- (66) Savidge, D., J. Amft, A.Gargett, M. Archer, D. Conley, **G. Voulgaris**, L. Wyatt, K-W. Gurgel, 2011. Assessment of WERA long-range HF-Radar performance from the user's perspective. Current, Waves and Turbulence Measurements (CWTM), IEEE/OES 10th Working Conference on., 20-23 March, 2011, pp 57-65 ISBN: 978-1-4577-0022-4.
- (65) Gurgel, K-W., T. Schlick, J. Seemann, F. Ziemer and **G. Voulgaris**, 2011. HF Radar observations in the German Bight: measurements and quality control. Current, Waves and Turbulence Measurements (CWTM), IEEE/OES 10th Working Conference on., 20-23 March, 2011, pp 57-65 ISBN: 978-1-4577-0022-4.
- (64) Sanger, D., D. Hernandez, S. Libes, **G. Voulgaris**, R. Van Dolah, G. Riekerk, B. Davis, E. Smith, R. Shuford, D. Porter, E. Koepfler and J. Bennett, 2010. Challenges in the Integration of Science and Management Communities: Long Bay Hypoxia Case History. *Environmental Management*, 46(3): 340-350.
- (63) Savidge, D. K., J. Norman, C. Smith, J. A. Amft, T. Moore, C. Edwards, and **G. Voulgaris**, 2010. Shelf edge tide correlated eddies along the southeastern United States, *Geophysical Research Letters*, 37, L22604, doi:10.1029/2010GL045236.
- (62) Haus, B.K., L.K. Shay, P.A. Work, **G. Voulgaris**, R.J. Ramos and J. Martinez-Pedraja, 2010. Wind speed dependence of single-site wave height retrievals from High Frequency Radars. *Journal of Atmospheric and Oceanic Technology*, doi: 10.1175/2010JTECHO730.1.
- (61) McCarney-Castle⁺, K., **G. Voulgaris**, and A.J. Kettner, 2010. Analysis of fluvial suspended sediment load contribution through Anthropocene history to the South Atlantic Bight coastal zone, U.S.A., *Journal of Geology*: 118, 399-416
- (60) Goni, M.A., **G. Voulgaris**, and Y.H. Kim⁺, 2009. Composition and Fluxes of Particulate Organic Matter in a Temperate Estuary (Winyah Bay, South Carolina, USA) under Contrasting Physical Forcings. *Estuarine Coastal & Shelf Science*, doi:10.1016/j.ecss.2009.08.013.
- (59) Savidge, W., A. Gargett, R. Jahnke, J. Nelson, D. Savidge, T. Short and **G. Voulgaris**, 2008. Forcing and Dynamics of Seafloor-Water Column Exchange on a Broad Continental Shelf. *Oceanography*, 21 (4): 130-135.

- (58) **Voulgaris, G.**, B.K. Haus, P. Work, L.K. Shay, H.E. Seim, R.H. Weisberg and J. R. Nelson, 2008. Waves Initiative within SEACOOS. *Marine Technology Society Journal*, 42(3): 68-80.
- (57) Kim, Y.H⁺ and **G. Voulgaris**, 2008. Lateral Circulation and Suspended Sediment Transport in a Curved Estuarine Channel, Winyah Bay, South Carolina, USA. *Journal of Geophysical Research, Oceans*, 113, C085050, doi:10.1029/2007JC004509.
- (56) Sanay, R., A. Yankovsky and **G. Voulgaris**, 2008. Inner shelf circulation patterns under downwelling and stratified Conditions off a curved coastline. *Journal of Geophysical Research, Oceans*, 113, C09006, doi:10.1029/2007JC004487.
- (55) **Voulgaris, G.** and J.P. Morin, 2008. A Long-Term Real Time Sea Bed Morphology Evolution System in the South Atlantic Bight. Proceedings of the IEEE/OES/CMTC Ninth Working Conference on Current Measurement Technology, 2008 IEEE: 71:79.
- (54) Sanay R., **G. Voulgaris**, and J.C. Warner, 2007. Influence of Tidal Asymmetry and Residual Circulation on Sediment Transport in Linear Sandbanks: A Processes-Oriented Numerical Study. *Journal of Geophysical Research, Oceans*, Vol 112, C12015, doi: 10.1029/2007JC004101.
- (53) Savidge, W.B., R.A. Jahnke, J.R. Nelson, D.K. Savidge, **G.Voulgaris**, R.T.Short, and A.Gargett. 2007. Development of a coastal ocean benthic observatory to study sediment-water exchange processes. In *Chemical Pollution and Environmental Changes*, ed. S. Tanabe, H Takeoka, T. Isobe and Y. Nishibe. Tokyo: Universal Academy Press, 383-392.
- (52) Fornwalt, B.K., T. Arita, M. Bhasin, **G. Voulgaris**, J.D. Merlino, A.R. Le, D.A. Fyfe, and J.N. Oshinski, 2007. Cross-correlation quantification of dyssynchrony: a new method for quantifying the synchrony of contraction and relaxation in the heart. *Journal of American Society of Echocardiography*. DOI: 10.1016/j.echo.2007.04.030.
- (51) Maza, M⁺, **G. Voulgaris**, and B. Subrahmanyam, 2006. Subtidal inner shelf currents off Cartagena de Indias, Caribbean coast of Colombia, *Geophysical Research Letters*, 33, L21606, doi:10.1029/2006GL027324.
- (50) Sherwood, C.R., J.R. Lacy and **G. Voulgaris**, 2006. Shear velocity estimates on the inner shelf off Grays Harbor, Washington, USA, *Continental Shelf Research*, doi:10.1016/j.csr.2006.07.025
- (49) Gutierrez, B.T⁺, **G. Voulgaris** and P.A. Work, 2006. Cross-shore Variation of Wind-Driven Flows on the Inner Shelf in Long Bay, South Carolina, USA. *Journal of Geophysical Research*, Vol. 111, C03015, doi:10.1029/2005JC003121, 2006.
- (48) Murphy, S⁺ and **G. Voulgaris**, 2006. A Study of the Role of Tides, Rainfall and Seasonality in Marsh Sedimentation from Long-Term Suspended Sediment Concentration Data: North Inlet, South Carolina. *Marine Geology*, 227, 31– 50.
- (47) Kim, Y.H⁺ and **G. Voulgaris**, 2005. Tidal and Residual Estuarine Circulation in Winyah Bay, SC. *Estuarine, Coastal and Shelf Science*, 65(4): 671-686.
- (46) Salles, P.A., **G. Voulgaris** and D.G. Aubrey, 2005. Contribution of non-linear mechanisms in the persistence of multiple tidal inlet systems. *Estuarine, Coastal and Shelf Science*, 6: 475-491.
- (45) Gutierrez, B.T⁺, **G. Voulgaris**, and E. R. Thieler, 2005. Exploring the Persistence of Sorted Bedforms on the Inner-Shelf of Wrightsville Beach, N.C. *Continental Shelf Research*, 25: 65–90.
- (44) Goni, M.A., M.W. Cathey, Y.H. Kim⁺ and **G. Voulgaris**, 2005. Sources and Fluxes of Suspended Organic Matter in an Estuarine Turbidity Maximum During Low Discharge Conditions. *Estuarine, Coastal and Shelf Research*, 63(4): 683-700.
- (43) Blanton, B.O., F.E. Werner, H.E. Seim, R.A. Luettich, Jr., D.R. Lynch, K.W. Smith, **G. Voulgaris**, F.M. Bingham and F. Way, 2004. Barotropic Tides in the South Atlantic Bight. *Journal of Geophysical Research*, 109, C12024, doi:10.1029/2004JC002455.

- (42) Work, P., H. Demir, J. Kaihatu and **G. Voulgaris**, 2005. Mesoscale Wave Energy Dissipation over Heterogeneous Sediments Proc. 29th Int. Conf. on Coastal Engineering, ASCE, Lisbon, September 19 – 24, 2004, pp. 477-489.
- (41) **Voulgaris, G.** and S. Meyers⁺, 2004. Temporal Variability of Hydrodynamics, Sediment Concentration, and Sediment Settling Velocity in a Tidal Creek. *Continental Shelf Research*, 24: 1659-1683.
- (40) Work, P.A., F. Fehrenbacher, and **G. Voulgaris**, 2004. Nearshore Impacts of Dredging for Beach Nourishment, *Journal of Waterways, Ports, Harbors and Ocean Engineering*, ASCE, 130: 303-311.
- (39) Torres, R., M.A. Goni, **G. Voulgaris**, R. Lovell and J.T. Morris, 2004. Effects of Low Tide Rainfall on Intertidal Zone Material Cycling. The Eco-geomorphology of Tidal Marshes. Fagherazzi, Marani, and Blum (Eds). *Coastal and Estuarine Studies*, Vol. 59, AGU Special Publication, Washington DC. 266p.: 93-114.
- (38) **Voulgaris G.** and S. Meyers⁺, 2004. Net Effect of Rainfall Activity on Salt Marsh Sediment Distribution. *Marine Geology*, 207 (1-4): 115-129.
- (37) Novakowski, K.I., R. Torres, Gardner, R.B and **G. Voulgaris**, 2004. Geomorphic Analysis of Tidal Creek Networks, North Inlet, South Carolina. *Water Resources Research*, 40, W05401, doi:10.1029/2003WR002722, 13p.
- (36) **Voulgaris, G.** and S. Meyers⁺, 2004. Flow Dynamics and Sediment Flocculation in a Tidal Marsh Environment. Proceedings of the International Conference on Coastal Sediments 2003. CD-ROM Published by World Scientific Publishing Corp. and East Meets West Productions, Corpus Christi, Texas, USA. ISBN 981-238-422-7.
- (35) Kim, Y.H. ⁺ and **G. Voulgaris**, 2003. Estimation of Suspended Sediment Concentration in Estuarine Environments using Acoustic Backscatter from an ADCP. Proceedings of the International Conference on Coastal Sediments 2003. CD-ROM Published by World Scientific Publishing Corp. and East Meets West Productions, Corpus Christi, Texas, USA. ISBN 981-238-422-7.
- (34) Gutierrez, B.T⁺, **G. Voulgaris**, and E.R. Thieler, 2003. Inner-Shelf Circulation and the Maintenance of a Rippled Scour Depression: Wrightsville Beach, NC, USA. Proceedings of the International Conference on Coastal Sediments 2003. CD-ROM Published by World Scientific Publishing Corp. and East Meets West Productions, Corpus Christi, Texas, USA. ISBN 981-238-422-7.
- (33) Work, P.A., F. Fehrenbacher, **G. Voulgaris**, and J. Chen, 2003. Nearshore dredging impacts, Folly Island, SC, USA. Proceedings of the International Conference on Coastal Sediments 2003. CD-ROM Published by World Scientific Publishing Corp. and East Meets West Productions, Corpus Christi, Texas, USA. ISBN 981-238-422-7.
- (32) **Voulgaris, G.**, and 25 other contributors, 2002. Chapter 10: Multidisciplinary Ocean Science Applications of an AUV: the Autosub Science Missions Programme. In G. Griffiths (Ed): "Technology and Applications of Autonomous Underwater Vehicles", Taylor & Francis, London, 368pp.
- (31) Poulos, S., **G. Voulgaris**, V. Kapsimalis, M.B. Collins and G. Evans, 2002. Sediment Fluxes and the Evolution of a Riverine-Supplied, Tectonically-Active Coastal System: Kyparissiakos Gulf, Ionian Sea (Eastern Mediterranean). In: Jones S.J and Frostrick L.E. (Eds) Sediment Flux to Basins: Causes, Controls and Consequences. *Geological Society*, London, Special Publications 191, 247-266.
- (30) Jodar, J.M., **G. Voulgaris**, A. Luna del Barco and J. M. Gutierrez-Mas, 2002, Wave and Current Conditions and Implications for the Distribution of Sediment in the Bay of Cadiz, (Andalusia, SW Spain). *Littoral 2002*, The Changing Coast, EUROCOAST/EUCC, 22-26 September, Porto, Portugal, Vol. III: 287-291.
- (29) Work, P.A., **G. Voulgaris** and F. Fehrenbacher, 2002. Shoreline Change due to Nearshore Dredging., *Littoral 2002*, The Changing Coast, EUROCOAST/EUCC, 22-26 September, Porto, Portugal, Vol. I: 1-10.

- (28) Hill, P., **G. Voulgaris** and J.H. Trowbridge, 2001. Controls on Floc Size in a Continental Shelf Bottom Boundary Layer. *Journal of Geophysical Research*, 106(C5), 9543-9549.
- (27) **Voulgaris, G.** and M.B. Collins, 2000. Sediment Resuspension on Beaches: Response to Breaking Waves. *Marine Geology* 167: 167-187
- (26) Griffiths, G., P.G. Fernandes, A.S. Brierley and **G. Voulgaris**, 2000. Unescorted Missions with the Autosub AUV in the North Sea. Proceedings of International Unmanned Undersea Vehicle Symposium, April 24-28, 2000. Newport RI: 2-11.
- (25) O'Connor, B.A., S. Pan, M. Heron, J.J. Williams, **G. Voulgaris**, and A.J.R. Silva, 2000. Hydrodynamic Modeling of a Dynamic Inlet. Proc. 27th Int. Conference on Coastal Engineering, ASCE: 3472-3781.
- (24) Powell, H., **G. Voulgaris**, M.B. Collins, A.C. Bastos, and R.L. Soulsby, 2000. Sediment transport rates over bedforms: observations and model predictions. Marine Sandwave Dynamics, International Workshop, March 23-24 2000, University of Lille 1, France. Proceedings. Trentesaux, A. and Garlan, T. (Eds): 161-168.
- (23) Powell, H., **G. Voulgaris**, M.B. Collins, A.C. Bastos, and R.L. Soulsby, 2000. Wave-current interaction over bedforms: observations and model predictions. Marine Sandwave, International Workshop, March 23-24 2000, University of Lille 1, France. Proceedings. Trentesaux, A. and Garlan, T. (Eds): 153-160.
- (22) Velegrakis, A.F., E. Oikonomou, A. Theocharis, V. Papadopoulos, M.B. Collins, H. Kontoyanis, **G. Voulgaris**, T. Wells, M.B. Collins and E. Balopoulos, 1999. Internal Waves Related by Synthetic Aperture Radar (SAR) Imagery at the Eastern Cretan Arc Straits (Eastern Mediterranean). *Progress in Oceanography* 44(4) 631-650.
- (21) Wallbridge, S., **G. Voulgaris**, B.N. Tomlinson and M.B. Collins, 1999. Initial Motion and Pivoting Characteristics of Sand Particles in Uniform and Heterogeneous Beds: Experiments and Modelling. *Sedimentology*, 46(1): 17-32.
- (20) **Voulgaris, G.**, M. Workman and M.B. Collins, 1999. Measurement Techniques of Shingle Transport in the Nearshore Zone. *Journal of Coastal Research*, 15(4), 1030-1039.
- (19) Williams, J.J, B. Arens, D. Aubrey, P. Bell, A. Bizzaro, M.B. Collins, M. Davidson, J. Dias, O. Ferreira, M. Heron, H. Howa, Z. Hughes, D. Huntley, M.T. Jones, B. O'Connor, S. Pan, A. Sarmiento, F. Seabra-Santos, S. Shayler, J. Smith and **G. Voulgaris**, 1999. Inlet Dynamics Initiative: Algarve (INDIA). *Coastal Sediments 99*, ASCE: 612-627.
- (18) **Voulgaris, G.** and J.H. Trowbridge, 1998. Evaluation of the Acoustic Doppler Velocimeter (ADV) for Turbulence Measurements. *Journal of Atmospheric and Oceanic Technology* 15(1): 272-289.
- (17) **Voulgaris, G.**, D. Michel, D. Simmonds, H. Howa, M.B. Collins, and D.A. Huntley, 1998. Measuring and Modelling Sediment Transport on a Macrotidal Ridge and Runnel Beach: An Intercomparison. *Journal of Coastal Research*, 14(1): 315-330.
- (16) Williams, J.J, B. Arens, M.A. Davidson, J.M.A. Dias, H. Howa, B. O'Connor, A. Sarmiento, J. S. Smith and **G. Voulgaris**, 1998. INDIA: Inlet Dynamics Initiative. *Oceans 98, IEEE*: 1540-1546.
- (15) Panagiotopoulos, I., **G. Voulgaris** and M.B. Collins, 1997 The Influence of Clay on the Threshold of Movement of Fine Sandy Beds. *Coastal Engineering*, 32(1): 19-44.
- (14) **Voulgaris, G.**, S. Wallbridge, B.N. Tomlinson and M.B. Collins, 1997. Laboratory Investigations into Wave Period Effects on Sand Bed Erodibility under the Combined Action of Waves and Currents. Reply to the Comments of Z.-Z. You. *Coastal Engineering*, 30: 161-166.
- (13) **Voulgaris, G.**, J.H. Trowbridge, W.J. Shaw and A.J. Williams III, 1997. High Resolution Measurements of Turbulent Fluxes and Dissipation Rates in the Benthic Boundary Layer. Proc. *Coastal Dynamics '97*, ASCE, Plymouth, UK: 177-186.

- (12) Mason, T., **G. Voulgaris**, D.J. Simmons and M.B. Collins, 1997. Hydrodynamics and Sediment Transport on Composite (Mixed Sand/Shingle) and Sand Beaches: A Comparison. *Proc. Coastal Dynamics '97*, ASCE, Plymouth, UK: 48-57.
- (11) Wallbridge, S. and **G. Voulgaris**, 1997. Fractional Threshold of Motion for Mixed Sand Beds and Implications for Sediment Transport Modelling. *Proc. Coastal Dynamics '97*, ASCE, Plymouth, UK: 68-77.
- (10) **Voulgaris, G.**, T. Mason and M.B. Collins, 1996. The Energetics Approach for Suspended Sand Transport in Macrotidal Ridge and Runnel Beaches. *Proc. 25th Int. Conference on Coastal Engineering, Coastal Engineering Research Council/ASCE Orlando, Florida: 3948-3961.*
- (9) **Voulgaris, G.**, S. Wallbridge, B.N. Tomlinson and M.B. Collins, 1995. Laboratory Investigations into Wave Period Effects on Sand Bed Erodibility under the Combined Action of Waves and Currents. *Coastal Engineering*, 26: 117-134.
- (8) **Voulgaris, G.**, M.P. Wilkin and M B. Collins, 1995. The In Situ Acoustic Measurements of Shingle Movement under Waves and Currents: Instrument (TOSCA) development and preliminary results. *Continental Shelf Research*, 15(10): 1195-1211.
- (7) Simmonds, G., **G. Voulgaris** and D.A. Huntley, 1995. Dynamic Processes on a Ridge and Runnel Beach: Field Measurements and Interpretation. *Proc. Coastal Dynamics 95*, ASCE, Gdansk, Poland: 868-878.
- (6) **Voulgaris, G.**, M. Wilkin and M.B. Collins, 1994. Shingle Movement under the Combined Action of Waves and Currents: Design and Development of an Instrumented Platform (TOSCA), for Field Data Collection. *Coastal Dynamics '94*, ASCE, Barcelona, Spain: 894-909.
- (5) Van der Post, K.D., F. Oldfield and **G. Voulgaris**, 1994. Magnetic Tracing of Beach Sand: Preliminary Results. *Coastal Dynamics '94*, ASCE, Barcelona, Spain: 323-334.
- (4) **Voulgaris, G.** and M.B. Collins, 1994. Sediment Mobility Studies using an Instrumented Platform (TOSCA). *Proc. of 1994 MAFF Conference of River and Coastal Engineering, Loughborough University of Technology, 4-6th July, pp.1.2.1 - 1.2.14*
- (3) Collins, M. B. and **G. Voulgaris**, 1993. Empirical Field and Laboratory Evaluation of a Real-Time Acoustic Sea Bed Surveying System. *Proc. of the Institute of Acoustics*, 15(2): 343-351.
- (2) **G. Voulgaris** and M.B. Collins, 1991. Linear Features on Side-Scan Sonar Images: An Algorithm for the Correction of Angular Distortion. *Marine Geology*, 96: 187-190.
- (1) Papadakis, G., **G. Voulgaris**, A. Frangoudakis and S. Kyritsis, 1988. Night Sky Radiation in Athens During the Summer. Influence of City Pollutants. *Int. J. Solar Energy*, 6: 279-289.

Published Abstracts

- (120) Al-Attabi, Z., **G. Voulgaris**, and N. Kumar, 2016. Range and Beam Angle Dependence of the Empirical Wave Inversion Method for HF radars. Abstract OS13B-1808. AGU, Fall Meeting San Francisco, 12-16 December 2016.
- (119) Cahl, D and **G. Voulgaris**, 2016. Beam Forming HF Radar Beam Pattern Measurements and Phase Offset Calibration Using an UAV. Abstract ID: OS13B-1810. AGU, Fall Meeting San Francisco, 12-16 December 2016.
- (118) Ofsthun, C., X. Wu, **G. Voulgaris** and J.C. Warner, 2016. Alongshore Momentum Balance Over Shoreface-Connected Ridges, Fire Island, NY. Abstract ID: OS23A-1991. AGU, Fall Meeting San Francisco, 12-16 December 2016.
- (117) Al-Attabi, Z. and **G. Voulgaris**, 2016. Comparison Between HF Radar Measurements of Waves and

- In-Situ Measurements off Cape Hatteras, NC. Paper 12-14. Southeastern Section GSA - 65th Annual Meeting (31 March–1 April 2016, Columbia, SC).
- (116) Wu, X, **G. Voulgaris** and Kumar, N., 2016. Impacts of Synoptic Weather Systems on Shoreline Stability along the South Carolina Coast. Paper 12-6, Southeastern Section GSA - 65th Annual Meeting (31 March–1 April 2016, Columbia, SC).
- (115) Ofsthun, C., **G. Voulgaris** and J.C. Warner, 2016. Alongshore Momentum Balance over Shoreface-Connected Ridges, Fire Island, NY. Paper 12-15. Southeastern Section GSA - 65th Annual Meeting (31 March–1 April 2016, Columbia, SC).
- (114) Cahl, D and **G. Voulgaris**, 2016. HF radar Lagrangian trajectory calculations accounting for Stokes' drift and the nonlinear Bragg wave phase speed correction term. Abstract ID: EC44B-1247. 2016 Ocean Science Meeting, 21-26 February, New Orleans, LA.
- (113) Ofsthun, C., **G. Voulgaris** and J.C. Warner, 2016. Alongshore Momentum Balance Over Shore-face Connected Ridges, Fire Island, NY. Abstract ID: EC24B-1087. 2016 Ocean Science Meeting, 21-26 February, New Orleans, LA.
- (112) Wu, X., N. Kumar and **G. Voulgaris**, 2015. Inner Shelf Circulation Driven by Synoptic Weather Systems on the South Carolina Coast. Abstract ID: NH51C01913. AGU Fall Meeting San Francisco, 14-18 December 2015.
- (111) Cahl, D and **G. Voulgaris**, 2015. Sub-mesoscale Eddies and Their Propagation Paths in Long Bay, SC Observed in HF Radar Surface Currents. Abstract ID: OS11A-1987. AGU Fall Meeting San Francisco, 14-18 December 2015.
- (110) Verney, R., **G. Voulgaris**, A. Manning, J. Deloffre and P. Bassoullet, 2013. Quantifying suspended particulate matter (SPM) dynamics in estuaries: combining acoustic and optical approaches. International Conference on Cohesive Sediment Transport Processes. INTERCOH 2012, October 21-24, 2013. Gainesville Florida. Abstract No: 2013-10-21-0310, pp. 25-26. Available at: <http://plaza.ufl.edu/khareyogesh1/abstracts.pdf>
- (109) Kumar, N., **G. Voulgaris**, J.C. Warner and J.H. List, 2013. Offshore Transport around a Cuspate Foreland System due to Wind, Wave and Tidal Forcing. 60th Annual Eastern Pacific Ocean Conference, Fallen Leaf Lake, CA, September 16-19, 2013, p. 19. Available at: http://ww2.biol.sc.edu/~ryk/EPOC_2013/documents/EPOC_2013_Program_POSTED.pdf
- (108) **Voulgaris, G.**, N. Kumar⁺, J.H. List and J.C. Warner, 2012. Measurements of Inner –Shelf Waves and Currents using Very High Frequency (VHF) Wellen Radar. TOS/ASLO/AGU 2012 Ocean Sciences Meeting, February 20-14, 2012, Salt Lake City (Abstract ID 10453). Available at: <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=10453>
- (107) Kumar, N.⁺; **G. Voulgaris**, J.H. List and J.C. Warner, 2012. Cross-shore and Alongshore Variation of Wind and Wave Driven Flows in the Inner –Shelf and Surf zone at the tip of Cape Hatteras, NC. TOS/ASLO/AGU 2012 Ocean Sciences Meeting, February 20-14, 2012, Salt Lake City (Abstract ID:10361) Available at: <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=10361>
- (106) Nelson, T.⁺ and **G. Voulgaris**. 2012. The Influence of Ripple Geometry on Seabed Roughness and Vertical Suspended Sediment Concentration Profiles. TOS/ASLO/AGU 2012 Ocean Sciences Meeting, February 20-14, 2012, Salt Lake City (Abstract ID:9877) Available at: <http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=9877>
- (105) **Verney, R.**, Deloffre J., Manning A., **Voulgaris G** and Bassoullet P, 2012. SPM dynamics in the Seine Estuary: the FLUMES experiment. Particles in Europe (PIE) 2012, October 17-19, 2012. Institut de Ciencies del Mar (ICM), Barcelona, Spain. Available at: http://www.sequoiasci.com/wp-content/uploads/2013/10/PIE2012_ABSTRACT_VOLUME.pdf
- (104) Simmons, G.M.⁺ and **G. Voulgaris**, 2012. Characterization of Wave Energy Levels in Estuarine

Waters for Particulate Dispersion Studies: Case Study Winyah Bay, SC. TOS/ASLO/AGU 2012 Ocean Sciences Meeting, February 20-14, 2012, Salt Lake City (Abstract ID:9726). Available at:
<http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=9726>

- (103) Savidge, D.K., A.E. Gargett and **G. Voulgaris**, 2012. Turbulent Processes Affecting the SeaBed and Sediment Transport on the Mid-Shelf: Langmuir Supercells Convection and Tides from a Two Year VADCP Deployment. . TOS/ASLO/AGU 2012 Ocean Sciences Meeting, February 20-14, 2012, Salt Lake City (Abstract ID 11350). Available at:
<http://www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=11350>
- (102) Baeye, M, M. Fettweis, **G. Voulgaris** and V. Van Lancker, 2011. Sediment Mobility in Response to Tidal and Wind-driven Flows along the Belgian Coast, Southern North Sea. Book of Abstracts, Vliz, Young Marine Scientists' Day, Ound Sint-Jan, Brugge, 25 Feb., 2011. p 13. Available at:
http://www.vliz.be/docs/events/JCD/2011/SP48_YSD2011.pdf
- (101) Nelson, T.+ and **Voulgaris, G.**, 2011. Predicting the Temporal and Spatial Evolution of Regular and Irregular Ripple Geometry under Varying Hydrodynamic Forcing. 2011 GSA Annual Meeting, Geological Society of Americam Abstracts with Programs Vol. 43(5): 497
- (100) **Voulgaris, G**, N. Kumar+, K.W. Gurgel, J.C. Warner, J. List and E. Gill, 2011. VHF radar measurements of waves and currents in the nearshore region. NATO-NURC 3rd Workshop on Remote Ocean Sensing (ROS 2011), October 11-13, La Spezia Italy.
http://geos2.nurc.nato.int/rosdata/NURC/ROS_Talks/Wednesday/Voulgaris_et_al_ROS_2011.pdf
- (99) Kumar, N., **G. Voulgaris** and J.C. Warner, 2010. Measurements and 3-D Modeling of Nearshore Circulation on a South Carolina Beach", 2010 National Coastal Conference, the American Shore and Beach Preservation Association (ASBPA), Oct., 13-15, 2010, Charleston, SC.
- (98) Warner, J.C., R.E., Thieler, **G. Voulgaris**, K. Haas and J. McNinch, 2010. Investigating Nearshore Processes at Cape Hatteras, NC., Northeastern Section (45th Annual) and Southeastern Section (59th Annual) Joint Meeting (13-16 March 2010). Geological Society of America Abstracts with Programs, Vol. 42, No. 1, p. 141.
- (97) Warner, J.C., B.N. Armstrong, M. Olabarrieta, R. He, J.B. Zambon, **G. Voulgaris**, N. Kumar and K A Haas, 2010. Development and Application of a Coupled-Ocean-Atmosphere-Waves-Sediment Transport (COAWST) Modeling System for Nearshore Environments. AGU 2010 Ocean Sciences Meeting, Abstract No PO13B- 01, Portland, OR, USA. (*Invited*).
- (96) Savidge, D.K.,C.R. Edwards, J. Amft, T. Moore, **G. Voulgaris**, J. Norman, C. Smith, 2010. Shelf Edge Tide Correlated Eddies in the South Atlantic Bight. AGU 2010 Ocean Sciences Meeting, Abstract No PO14A-04, Portland, OR, USA.
- (95) Kumar, N., **G. Voulgaris** and J.C. Warner, 2010. Coupled wave current modeling to simulate and predict rip currents. AGU 2010 Ocean Sciences Meeting, Abstract No PO15E-12, Portland OR.
- (94) **Voulgaris, G**, N. Kumar and J.C. Warner, 2010. Applications of a three dimensional numerical model in a surf zone environment. AGU 2010 Ocean Sciences Meeting, Abstract No PO13B-02, Portland OR.
- (93) Kumar, N., **G. Voulgaris** and J.C. Warner, 2010. Predicting Rip Currents using a 3-D coupled wave-current model. 1st International Rip Current Symposium, Florida International University, Feb 17-19, 2010, Miami, FL.
- (92) **Voulgaris, G.**, 2009. On the Physical Forcing of Low Oxygen Events in Long Bay, SC. Southeastern Estuarine Research Society, Semi-annual Meeting, March 19-21, 2009. Coastal Carolina University, Conway, SC.
- (91) Yin, M., M. Wescott, D. Overcash, **G. Voulgaris**, G. Cokkinides, P. Morawiec and T. Datta, 2009. A new technique to determine the value of G. Bulletin of the American Physical Society. 76th Annual

- Meeting of the Southeastern Section of APS, 54(16), Abstract BAPS.2009.SES.PB.8
- (90) Gambrell, J., M. Wescott, M. Yin, D. Overcash, **G. Voulgaris** and T. Datta, 2009. Study of Tidal Acceleration. Bulletin of the American Physical Society. 76th Annual Meeting of the Southeastern Section of APS, 54(16), Abstract BAPS.2009.SES.PB.9
- (89) **Voulgaris, G.** 2009. Suspended Particles and Acoustic Backscatterance in Flow and Sediment Measurements using Acoustic Doppler Velocimeters. 3rd International Conference & Exhibition on "Underwater Acoustic Measurements: Technologies & Results", June 21-26, 2009. Nafplion, Greece. (Invited).
- (88) **Voulgaris, G.**, J.C. Warner, K. Haas and T. Nelson, 2009. Linking Hydrodynamic and Coastal Evolution in Long Bay, SC: Experimental Study and Findings. International Geoscience Programme (IGCP) Project 495 Annual Conference and Meeting, Myrtle Beach, SC, October 25-27, 2009.
- (87) Warner, J.C., **G. Voulgaris**, K. Haas and B. Armstrong, 2009. Numerical Modeling of Physical Processes Controlling Ocean Circulation and Sediment Transport along the Carolinas Coastline. International Geoscience Programme (IGCP) Project 495 Annual Conference and Meeting, Myrtle Beach, SC, October 25-27, 2009.
- (86) Nelson, T.R., **G. Voulgaris** and J.C. Warner, 2008. A Model to Predict the Evolution of Suspended Sediment Concentration Profiles and Bedforms Before, During, and After Storm Events. Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract OS21E-1206.
- (85) Kumar, N., **G. Voulgaris** and J.C. Warner, 2008. Impact of Synoptic Meteorological Variations on Nearshore Hydrodynamics. Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract OS13D-1206.
- (84) Goni, M.A., Y. Alleau, N. Monacci, M. Cathey, Y.H. Kim and **G. Voulgaris**, 2008. Contrasts in the flux and Composition of Particulate Organic Matter in a Temperate Estuary as a Function of River Discharge. Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract OS13E-05.
- (83) **Voulgaris, G.** and Kim, Y.H., 2008. Lateral Circulation and Sediment Transport in a Curved Estuary. AGU Chapman Conference on Physics of Wave-Mud Interaction. Amelia Island, Florida, USA, 17-20 November 2008.
- (82) Warner, J.C., C.M. Sullivan, **G. Voulgaris** and P. Work, 2008. Effect of Storms on Inner-Shelf Sediment Transport in Long Bay, South Carolina, Geophysical Research Abstracts, Vol. 10, EGU2008-A-04409, European Geophysical Union General Assembly, Vienna Austria, April 13-18.
- (81) Moreno, D., **G. Voulgaris** and A. Arrieta, 2008. Características Morfológicas de una Playa y sus Relaciones con Parametros Fisicos y Estacionales. Casa Estusio: Playes del Sector Crespo-La Boquilla, en Cartagena, Colombia. XIII Seminario de Ciencia y Tecnologia del Mar – Senalmar 2008. El Conocimiento de las Ciencias y Tecnologías Marinas al Servicio del País. San Andres Isal del 20 al 23 de Mayo de 2008.
- (80) Sanay, R. and **G. Voulgaris**, 2008. Low Oxygen Events in Long Bay, SC, USA. 2008 Ocean Sciences Meeting, March 2-7, 2008, Orlando Florida, Book of Abstracts, page 397-398.
- (79) Savidge, W.B., J.R. Nelson, **G. Voulgaris**, and C.Y. Robertson, 2008. Seasonal Inventories of Fine Particulates in a Sandy Continental Shelf Sediment. 2008 Ocean Sciences Meeting, March 2-7, 2008, Orlando Florida, Book of Abstracts, page 402.
- (78) Robertson, C.Y., J.R. Nelson, **G. Voulgaris**, W.B. Savidge, and M. Tzeng, 2008. Particle Mobilization from mid-Shelf Sand Sediments of the South Atlantic Bight in Response to Physical Forcing. 2008 Ocean Sciences Meeting, March 2-7, 2008, Orlando Florida, Book of Abstracts. Page 383-384.
- (77) **Voulgaris, G.**, D. Savidge, A.E. Gargett, J. Morin, J. Amft, J.R. Nelson, W.B. Savidge, 2008. Physical Controls on Benthic Exchanges on the Mid-Shelf of the South Atlantic Bight: Ripple Evolution and Turbulence Measurements. 2008 Ocean Sciences Meeting, March 2-7, 2008, Orlando Florida,

Book of Abstracts, page 477.

- (76) Maza, M.A. and **G. Voulgaris**, 2008. Diurnal Currents, Sea Breeze and Tides on the Inner Shelf off Cartagena de Indias, Caribbean Coast of Colombia. 2008 Ocean Sciences Meeting, March 2-7, 2008, Orlando Florida, Book of Abstracts, page 293.
- (75) Nelson, T.R., **G. Voulgaris**, J.C. Warner, 2008. Temporal and Spatial Evolution of Small Scale Ripples on the Inner Shelf. 2008 Ocean Sciences Meeting, March 2-7, 2008, Orlando Florida, Book of Abstracts, page 328.
- (74) Morin, J.P., **G. Voulgaris**, H. Perales, and T. Moore, 2008. A Long-Term Real Time Seabed Morphology Evolution Monitoring System in the South Atlantic Bight. 2008 Ocean Sciences Meeting, March 2-7, 2008, Orlando Florida, Book of Abstracts page 315.
- (73) **Voulgaris, G.**, 2007. Quantitative and Qualitative Uses of Acoustic Techniques for Sediment and Particular Organic Material Transport in Coastal Environments. 2nd International Conference Underwater Acoustic Measurements: Technologies and Results, June 25-29, 2007. F.O.R.T.H., Heraklion, Crete, Greece. (Invited).
- (72) Yankovsky, A., R. Sanay and **G. Voulgaris**, 2007. Inner Shelf Transient Downwelling Fronts: The Effect of Curved Coastline. International Union of Geodesy and Geophysics, Perugia 2007, XXIV, General Assembly.
- (71) Sanay, R., Yankovsky and **G. Voulgaris**, 2007. TI: Inner Shelf Circulation Patterns Under Downwelling and Stratified Conditions off a Curved Coastline. *Eos Trans. AGU* 88(23), Jt. Assem. Suppl., Abstract OS51A-06.
- (70) Hyun-Sook, K., J.C. Warner, **G. Voulgaris**, P. Work, 2006. Numerical Study of Storm Impacts on Coastal Circulation in Long Bay, South Carolina. 2nd ROMS/TOMS European Workshop, Alcalá University, Alcalá de Henares (Madrid), Spain, November 6-8, 2006.
- (69) Barnhardt, W., W. Baldwin, J. Denny, W. Schwab, P. Gayes, N. Driscoll, J. Warner and **G. Voulgaris**, 2006 Integrating high-resolution mapping of the seafloor with sediment-transport measurements to understand coastal erosion in northern South Carolina. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract NS24A-01 (Invited).
- (68) Kim, H., J.C. Warner, G. Voulgaris and P. Work, 2006. Impacts of storms on coastal circulation in Long Bay, South Carolina. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract OS41B-0598.
- (67) Healy, G. and **G. Voulgaris**, 2006. Assessment of Secondary Student Attitudes and Achievement in Marine Science Using ArcView[®] GIS Technology. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract ED43B-0938.
- (66) Haus, B.K., R.J. Ramos, T.M. Cook, L.K. Shay, P.A. Work, **G. Voulgaris**, L.R. Wyatt, J. Martinez-Pedraja, 2006. HF Radar Wave Measurement Over a High Current Shear Region in the Florida Straits. *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS25I-14.
- (65) **Voulgaris, G.**, White S. and Kulp M.A., 2006. TI: The Impact of Hurricane Katrina on the Caminada-Moreau Headland, LA. . *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS16H-04.
- (64) Kim, Y.H., **G. Voulgaris** and M. Goni, 2006. Particulate Organic Carbon (POC) Fluxes across an Estuary using Acoustic and Optical Sensors. *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS25G-17.
- (63) Sanay, R., **G. Voulgaris**, Warner, J.C., 2006. Coastal Circulation Response to Upwelling and Downwelling Events in Long Bay, SC, *Eos Trans. AGU*, 87(36), Ocean Sci. Meet. Suppl., Abstract OS25F-09.
- (62) Sullivan, C M, Warner, J C, **Voulgaris, G.**, 2006. The Influence of Storms on Circulation and Sediment Transport in Long Bay, South Carolina, U.S.A. *Eos Trans. AGU*, 87(36), Ocean Sci. Meet.

Suppl. Abstract OS35E-08.

- (61) Sanay, R., **G. Voulgaris** and J.C. Warner, 2005. Coastal Circulation Response to Upwelling and Downwelling Events in Long Bay, SC. 9th International Conference on Estuarine and Coastal Modeling. Oct 31 – Nov. 2, 2005, Charleston, SC.
- (50) Perales, H., **G. Voulgaris**, R. Sanay and J.C. Warner, 2005. The Influence of Channel Depth and Bifurcation on Estuarine Residual Circulation. Winyah Bay, SC. 9th International Conference on Estuarine and Coastal Modeling. Oct 31 – Nov. 2, 2005, Charleston, SC.
- (59) Kim, Y.H., **G. Voulgaris** and M. Goni, 2005. Estimation of Particulate Organic Carbon (POC) Fluxes Using Acoustic and Optical Sensors in Estuaries. American Society of Limnology and Oceanography, Summer Meeting, June 19-24, Santiago de Compostela Spain.
- (58) Goni, M., **G. Voulgaris**, Cathey, M.W. and Kim, Y.H., 2005. Sources and Fluxes of Suspended Organic Matter in an Estuarine Turbidity Maximum Region. American Society of Limnology and Oceanography, Summer Meeting, June 19-24, Santiago de Compostela Spain.
- (57) **Voulgaris, G.**, J. C. Warner, P. A. Work, D. M. Hanes and K. A. Haas, 2004. The South Carolina Coastal Erosion Study: Integrated Circulation and Sediment Transport Studies. A Project Overview. *Eos Trans. AGU*, **85**(47), Fall Meet. Suppl., Abstract No. OS21B-1224.
- (56) Warner, J.C., C. Sullivan, **G. Voulgaris**, P. A. Work, K. A. Haas, and D. M. Hanes, 2004. The South Carolina Coastal Erosion Study: Numerical modeling of circulation and sediment transport in Long Bay. *Eos Trans. AGU*, **85**(47), Fall Meet. Suppl., Abstract No. OS21B-1226.
- (55) Demir, H., P. A. Work, **G. Voulgaris**, 2004 The South Carolina Coastal Erosion Study: Wind Wave Energy Dissipation. *Eos Trans. AGU*, **85**(47), Fall Meet. Suppl., Abstract No. OS21B-1241.
- (54) Haas, K. A., **G. Voulgaris**, H. Demir, P. A. Work and D. M. Hanes, 2004. The South Carolina Coastal Erosion Study: Nearshore Hydrodynamics Field Experiment. *Eos Trans. AGU*, **85**(47), Fall Meet. Suppl., Abstract No. OS21B-1225.
- (53) Nelson, T., **G. Voulgaris**, D. M. Hanes and J. C. Warner, 2004. Spatial and Temporal Variability of Wave Ripple Wavelengths in the Inner Shelf. *Eos Trans. AGU*, **85**(47), Fall Meet. Suppl., Abstract No. OS21B-1232.
- (52) Sanay, R., **G. Voulgaris**, J. H. Trowbridge, and J. C. Warner, 2004. Tidal and Subtidal Flow Over Uneven Topography. *Eos Trans. AGU*, **85**(47), Fall Meet. Suppl., Abstract No. OS21B-1234.
- (51) Gutierrez, B.T., **G. Voulgaris**, P. A. Work, H. E. Seim, and J. C. Warner, 2004. Circulation on the Inner-Shelf of Long Bay, South Carolina: Vertical Current Variability and Evidence for Cross-Shelf Variation in Near-Bed Currents. *Eos Trans. AGU*, **85**(47), Fall Meet. Suppl., Abstract No. OS11A-0479.
- (50) Torres, R., M.A. Goñi, and **G. Voulgaris**, 2004. Rainfall-Driven Cycling of Intertidal Zone Sediment. ASLO 2004 Summer Meeting. June 13-18, 2004 · Savannah International Trade & Convention Center, Savannah, GA, Book of Abstracts, p. 65.
- (49) Cathey, M.W., M.A. Goñi, and **G. Voulgaris**, 2004. Sources and Fluxes of Suspended Organic Matter in an Estuarine Turbidity Maximum During Low Discharge Conditions. *Eos Trans. AGU*, **84**(52), Ocean Sciences Meet. Suppl., Abstract OS22F-02.
- (48) Healy, G.F. and **G. Voulgaris**, 2003. Cognitive Assessment of GIS Technology in Education *Eos Trans. AGU*, **84**(46), Fall Meet. Suppl., Abstract ED31B-1169.
- (47) **Voulgaris, G.** and R. Torres, 2003. Intertidal Drainage Basins and Creek Networks: Terrestrial Concepts in a Marine Environment. In: Workshop to Discuss the National Center for Airborne Laser Mapping (NCALM). April 24-26, Gainesville, FL. Book of Abstracts and Letters of Support, p. 24.

- (46) Addington, L., R. Clinton, U.I. Corbett, S. Courtney, R.D. Gisewhite, T.P. Wissing, V. Michelou, N. Monacci, H. Aceves, **Voulgaris, G.**, and M. Goni, 2003. Undergraduate Research-Based Learning: the Physical and Chemical Processes of an Estuary. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31, Poster Abstracts, p.78.
- (45) Cathey, M., M. Goni, Y.H. Kim, R. Styles, and **G. Voulgaris**, 2003. Sediment and Organic Carbon Fluxes in an Impacted Estuary, Winyah Bay, SC: II Chemical Interactions. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31. Poster Abstracts, p.106.
- (44) Chen, J., **G. Voulgaris**, P. Work, and F. Fehrenbacher, 2003. Inner-Shelf Tidal and Wind Driven Circulation: Folly Beach, SC. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31, Poster Abstracts: p. 91.
- (43) Fehrenbacher, F.M., P.A. Work, **G. Voulgaris**, and Chen, J., 2003. Shoreline Change Due to Nearshore Dredging. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31. Poster Abstracts, p.93.
- (42) Gutierrez, B.T., **G. Voulgaris**, and E.R. Thieler, 2003. Wind-Driven Flow and the Maintenance of Inner-Shelf Sedimentary Features: Wrightsville Beach, N.C. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31. Poster Abstracts, p.95.
- (41) Kim, Y.H., **G. Voulgaris**, R. Styles, M. Cathey, and M. Goni, 2003. Sediment and Organic Carbon Fluxes in an Impacted Estuary, Winyah Bay, SC: I Physical Conditions. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31. Poster Abstracts, p.111.
- (40) Styles, R., D. Hooker, **G. Voulgaris**, Y.H. Kim, M. Goni, and M. Cathey, 2003. Topographically Induced Lateral Variations in the Salinity and Current Structure in Winyah Bay, SC. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31. Poster Abstracts, p.116.
- (39) **Voulgaris, G.**, 2003. Disposed Material Mobility and Transport in the Vicinity of the Charleston Ocean Dredged Material Disposal Site. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31. Poster Abstracts, p.99.
- (38) **Voulgaris, G.**, P.A. Work, and H. Demir, 2003. Wave and Current Dynamics in the Inner-Shelf of Long Bay, SC. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31. Poster Abstracts: p.99.
- (37) White, S., **G. Voulgaris**, and C. Amer, 2003. Characterizing Sediment Distribution in Winyah Bay Estuary using Side-Scan Sonar. SC. Southeast Coastal Ocean Science Conference, Charleston, SC, Jan. 27-31. Poster Abstracts: p.102.
- (36) Cathey, M.W., M. Goni, Y.H. Kim, R. Styles and **G. Voulgaris**, 2003. Quantification of Contaminant Flux in an Impacted Estuary, Winyah Bay, SC Using a Multidiscipline Approach. South Carolina Academy of Science 76th Annual Meeting, Clemson, SC (USA), 20-21 Mar 2003. (World Meeting # 000 6737), p. 65.
- (35) Kim, Y.H. and **G. Voulgaris**, 2003. Transport and Flux of Suspended Sediment in a Partially-Mixed Estuary, Winyah Bay, SC. South Carolina Academy of Science 76th Annual Meeting, Clemson, SC (USA), 20-21 Mar 2003, (World Meeting Number 000 6737), p. 94.
- (34) Weathers, D. and **G. Voulgaris**, 2003. Spatial and Temporal Variations of Beach Fill Behavior Along the South Carolina Coastline. South Carolina Academy of Science 76th Annual Meeting, Clemson, SC (USA), 20-21 Mar. (World Meeting #r 000 6737), p. 131.
- (33) **Voulgaris, G.**, 2003. Role of Turbulence and Particle Aggregation in Salt Marsh Accretion. South Carolina Academy of Science 76th Annual Meeting, Clemson, SC (USA), 20-21 Mar 2003. (World Meeting # 000 6737), p. 129.
- (32) Gutierrez, B. and **G. Voulgaris**, 2003. Maintenance of a Rippled Scour Depression due to Wind-

Driven Flow: Wrightsville Beach, NC. South Carolina Academy of Science 76th Annual Meeting, Clemson, SC (USA), 20-21 Mar. (World Meeting # 000 6737), p. 82.

- (31) Murphy, S. and **G. Voulgaris**, 2003. Long-Term Meteorological and Tidal Controls on Salt Marsh Sediment Dynamics. South Carolina Academy of Science 76th Annual Meeting, Clemson, SC (USA), 20-21 Mar. (World Meeting # 000 6737), p. 104.
- (30) Chen, J. and **G. Voulgaris**, 2003. Water circulation around Folly Island, SC. South Carolina Academy of Science 76th Annual Meeting, Clemson, SC (USA), 20-21 Mar. (World Meeting # 000 6737), p. 66.
- (29) Gutierrez, B T, **G. Voulgaris**, and E.R. Thieler, 2002. E Wind-Driven Flow and the Maintenance of a Rippled Scour Depression: Wrightsville Beach, North Carolina, USA. Eos Trans. AGU, 83(47), Fall Meet. Suppl., Abstract OS52F-11.
- (28) Fornwalt, B, E. Terray, **G. Voulgaris**, and J.H. Trowbridge, 2002. Flow Modeling Around an Autonomous Underwater Vehicle With Applications to Turbulence Measurements Eos Trans. AGU, 83(4), Ocean Sciences Meet. Suppl., Abstract OS22A-149.
- (27) **Voulgaris, G.**, J.H. Trowbridge, and E. Terray, 2002. AUV-based Flow and Turbulence Gradient Measurements: The Wish of a Modeler. Measurements Eos Trans. AGU, 83(4), Ocean Sciences Meet. Suppl., Abstract OS22K-10.
- (26) Slovinsky, P. and **G. Voulgaris**, 2002. Variation and Controls of Beach morphology Along the Coast of South Carolina. Geological Society of America, 51st Annual Meeting, Southeastern Section. Vol. 34(2), p. A-100.
- (25) Baldwin, W., **G. Voulgaris**, and P. Gayes, 2002. Effects of Local and Regional Antecedent Geology on the Modern Inner Continental Shelf: Southern Long Bay, South Carolina. Geological Society of America, 51st Annual Meeting, Southeastern Section. Vol. 34(2), p. A-10.
- (24) **Voulgaris, G.** and P.A. Work, 2002, Hydrodynamic Framework of Long Bay, SC: Measurements of Waves and Coastal Currents. Geological Society of America, 51st Annual Meeting, Southeastern Section. Vol. 34(2), p. A-100.
- (23) Meyers, S and **G. Voulgaris**, 2001. Turbulent Processes and Sediment Transport in a Salt Marsh Tidal Channel. EOS, Transactions, American Geophysical Union, Vol. 82, No 20: S105.
- (22) Murphy, S. and **G. Voulgaris**, 2001. Long-Term Sediment Flux in a Tidal-Salt Marsh, North Inlet, South Carolina. EOS, Transactions, American Geophysical Union, Vol. 82, No 20: S105.
- (21) Hinsley, W., G.F. Healy, and **G. Voulgaris**, 2000. Using a Web-Based Marine Science GIS Course in Secondary and Undergraduate Education. Abs. No. 52831, 2000 GSA Annual Meeting, Reno NV.
- (20) Healy, G.F., **G. Voulgaris**, P. Swart, and W. Hinsley, 2000. Bridging the Science and Technology Gap by Integrating Geoscience Research and GIS into K-12 Education. Abs. No. 52848, 2000 GSA Annual Meeting, Reno, NV.
- (19) Meyers, S and **G. Voulgaris**, 2000. Turbulent Processes and Sediment Transport in a Salt Marsh Tidal Channel. EOS, Transactions, American Geophysical Union, Vol. 81, No 48: F679.
- (18) Murphy, S. and **G. Voulgaris**, 2000. Long-Term Sediment Flux in a Tidal-Salt Marsh: Forcing Functions and Spatial Variability. EOS, Transactions, American Geophysical Union, Vol. 81, No 48: F682.
- (17) **Voulgaris, G.**, E. Terray, J.H. Trowbridge, and P. Dombrowski, 2000. Momentum Balances and Spatial Variation of Flow over a Linear Sand Ridge. The 37th Annual Technical Meeting, Society of Engineering Science, The University of South Carolina, Columbia, SC: II-41.
- (16) **Voulgaris, G.**, E.A. Terray, J.H. Trowbridge, A. Velegrakis and D. Paphitis, 2000, Spatial Variability of Bottom Turbulence Over a Sand Ridge: Experimental Design and Preliminary Results. Autosub

Newsletter, No 12: 2.

- (15) Slovinsky, P. and **G. Voulgaris**, 2000. Temporal and Spatial Variation of Beach Morphology Along Coastal South Carolina. 49th Annual Meeting of Southeastern Section of The Geological Society of America, March 23-24, Charleston, SC, Vol 32 (2), Abstract No: 30244, p. A-74.
- (14) **Voulgaris, G.**, E.A. Terray, J.H. Trowbridge, A. Velegrakis and D. Paphitis, 1999, Spatial Variability of Bottom Turbulence Over a Sand Ridge. EOS, Transactions, American Geophysical Union, Vol 80(46): 494.
- (13) Salles, P., D.G. Aubrey and **G. Voulgaris**, 1999. Multiple Tidal Inlet Stability in Ria Formosa, Portugal. Int. Symposium on Tidal Action, Tidal Processes and Tidal Effects on Coastal Evolution. VII Brazilian Association for Quaternary Studies (ABEQUA), October 03-09, Porto Seguro, Brazil.
- (12) Salles, P., D.G. Aubrey and **G. Voulgaris**, 1998. Time Scale Stability for Multiple Inlets at Ria Formosa, Portugal. 9th Conference on Physics of Estuaries and Coastal Seas, 24-26 September 1998, Ehime University, Matsuyama, Japan.
- (11) Panagiotopoulos, I. and **G. Voulgaris**, 1997. Erosion Threshold Study of Sand-Muddy Deposits. Proc. 5th Hellenic Symposium on Oceanography and Fisheries, National Centre for Marine Research, Kavala, Greece, Vol I: 403-406.
- (10) Aubrey, D.G. and **G. Voulgaris**, 1996. Stability Conditions for Multiple Tidal Inlets. 8th International Conference on Physics of Estuaries and Coastal Seas. September 1996, Hague, The Netherlands.
- (9) Simmonds, D., **G. Voulgaris**, D.A. Huntley and M.A. Davidson, 1995. Hydrodynamic Controls on a Ridge and Runnel Beach. 2nd MAST DAYS and EUROMAR, 7-10 November, Sorrento, Italy.
- (8) Simmonds, D. and **G. Voulgaris**, 1994. Hydrodynamics of a Ridge and Runnel System. Shallow Water Sedimentary Processes, 11th - 12th October, London, Marine Studies Group / Geological Society of London.
- (7) **Voulgaris G.** and M.B. Collins, 1994. The Role of Wave and Currents in the Maintenance of an Inshore Gravel Bank. Int. Conf. on the Geology of Siliciclastic Shelf Seas. 24-28 May, Gwent, Belgium.
- (6) **Voulgaris, G.**, M. Workman and M.B. Collins, 1994. New Techniques for the Measurement of Shingle Transport Rates in the Nearshore Zone. Int. Conf. on the Geology of Siliciclastic Shelf Seas. 24-28 May, Gwent, Belgium.
- (5) Collins, M.B. and **G. Voulgaris**, 1994. The Nearshore Environment - An Overview. At: Naval Oceanographic Forecasting - The 3rd Ocean Modelling Workshop, Organised by the Defence Research Agency, UK, 22-24 September, England.
- (4) Castaing, P., M.B. Collins, A. de Resseguier, J.P. Tastet, **G. Voulgaris** and O. Weber, 1991. Strategie d' Etude du Transport Global des Sables (Suspension et Charriage) Dans la Zone Littorale. 3eme Congres Francais de Sedimentologie, 18-20 November, Brest, France, pp. 67-68.
- (3) **Voulgaris, G.** and M.B. Collins, 1991. Description and Evaluation of the USP RoxAnn: A Sea Bed Discrimination System. 1st Conf. Geosciences and Environment, Geological Society of Greece, 15-18 April, Patras, Greece.
- (2) **Voulgaris, G.** and M.B. Collins, 1991. Instruments and Methods for the Measurement of Hydrodynamic Condition and Sediment Transport in the Littoral Zone. 1st Conf. Geosciences and Environment, Geological Society of Greece, 15-18 April, Patras, Greece.
- (1) Ferentinos, G., N. Kontopoulos, V. Sampo and **G. Voulgaris**, 1987. Wave Climate and Longshore Sediment Transport at Kyparissia Gulf, Greece. Proc. 3rd Conf. Greek Hydrotech. Society, 7-9 October, Thessaloniki, Greece. Vol. 3, pp 1-9 (in Greek with English abstract).

Technical Reports & Other Non-Refereed Publications

- (38) Armstrong, B.N., Warner, J.C., List, J.H., Martini, M.A., Montgomery, E.T., Traykovski, P.A., and **Voulgaris, G.**, 2015. Coastal Change Processes Project data report for oceanographic observations near Fire Island, New York, February through May 2014: U.S. Geological Survey Open-File Report 2015-1033, <http://dx.doi.org/10.3133/ofr20151033>
- (37) Armstrong, B.N., Warner, J.C., List, J.H., Martini, M.A., Montgomery, E.T., **Voulgaris, G.**, Traykovski, P.A., 2015. Coastal Change Processes Project data report for observations near Fire Island, New York, January to April 2012, Open-File Report 2014-1159, <http://dx.doi.org/10.3133/ofr20141159>.
- (36) Armstrong, B.N., J.C., Warner, **G. Voulgaris**, J.H. List, E.R. Thieler, M.A. Martini, E. Montgomery, J. McNinch, J.W. Book and K. Haas, 2013, Carolinas Coastal Change Processes Project data report for nearshore observations at Cape Hatteras, North Carolina, February 2010: U.S. Geological Survey Open-File Report 2012-1219, <http://pubs.usgs.gov/of/2012/1219/>.
- (35) **Voulgaris, G.**, 2012, Physical Oceanography and Air-Sea Interactions (Chapter 3). *In*: South Atlantic Information Resources: Data Search and Literature Synthesis, Edited by J. Michell, Research Planning Inc. Bureau of Ocean Energy Management, Study GM-09-x21. pp 3-1 to 3-58.
- (34) **Voulgaris, G.** 2011. Guidelines for Assessing HF Radar Capabilities and Performance. Technical Report CPSD/11/01. Coastal Processes & Sediment Dynamics Laboratory, Department of Earth & Ocean Sciences, University of South Carolina, 10pp.
- (33) **Voulgaris, G.** and R. Sanay, 2010. Physical Oceanographic Constraints Contributing to the Development of Low Oxygen Events in Long Bay, SC. Proceedings of the 2010 South Carolina Water Resources Conference, held October 13 -14, 2010, at the Columbia Metropolitan Convention Center. (Available at: http://media.clemson.edu/public/restoration/scwrc/2010/manuscripts/t2/voulgarisg2_sanay_10scwrcpaper.pdf)
- (32) **Voulgaris, G.**, 2010. Oceanic acoustic techniques for studying terrestrial erosion and sediment transport. Proceedings of the 2010 South Carolina Water Resources Conference, held October 13 -14, 2010, at the Columbia Metropolitan Convention Center (available at: http://media.clemson.edu/public/restoration/scwrc/2010/manuscripts/t5/voulgaris_10scwrcpaper.pdf).
- (31) Datta, T., M. Yin, M. Wescott, Y. Jeong, P. Morawiec, J. Gambrell, D. Overcash, H. Zhang, and **G. Voulgaris**, 2010. Tidal Accelerometry: Exploring the Cosmos Via Gravitational Correlations. Instrumentation and Methods for Astrophysics (astro-ph.IM). arXiv:1009.3043v1. (Electronic publication available at: <http://arxiv.org/ftp/arxiv/papers/1009/1009.3043.pdf>)
- (30) Datta, T., M. Yin, M. Wescott, Y. Jeong, H. Zhang and **G. Voulgaris**, 2010. Detection of Solar and Lunar Tidal Forces via Non-resonant Oscillations of a Pendulum. Classical Physics, arXiv:1011.6624v1 (Electronic publication available at: <http://arxiv.org/ftp/arxiv/papers/1011/1011.6624.pdf>).
- (29) South Atlantic Sea Grant College Programs, 2010. Oil Spill Physical Oceanography Summit. June 9, 2010 - Skidaway Institute of Oceanography, Savannah, Georgia Organized by: South Atlantic Sea Grant College Programs. Summary by: Georgia Coastal Research Council. Report # SASC-T-10-001, 16pp. (available at: www.southatlanticseagrant.org/oil_spill/SG_June9_2010_OilSummit_1.pdf)
- (28) Schwab, W., P. Gayes, R. Morton, N. Driscoll, W. Baldwin, W. Bardhad, J. Denny, M.S. Harris, **G. Voulgaris**, J.C. Warner and E. Wright, 2008. Coastal Change Along the Shire of Northeastern South Carolina: The South Carolina Coastal Erosion Study. U.S. Geological Survey Open File Report 2008-

- 1206, U.S. Geological Survey, U.S. Department of the Interior.
- (27) Sullivan, C.M., J.C. Warner, M.A. Martini, F.S. Lightsom, **G. Voulgaris** and P.A. Work, 2006. Wave Data Processing Toolbox Manual, CD-ROM, Version 1.0., USGS Open File Report 2005-1211, U.S. Geological Survey, U.S. Department of the Interior.
- (26) Kim, Y.H., B Gutierrez, T. Nelson, A. Dumars, M. Maza, H. Perales and **G. Voulgaris**, 2004. Using the Acoustic Doppler Current Profiler (ADCP) to Estimate Suspended Sediment Concentration. Technical Report CPSD/04/02. Coastal Processes & Sediment Dynamics Laboratory, Department of Geological Sciences, University of South Carolina, Columbia, SC, 20pp.
- (25) Sullivan, C.M., J.C. Warner, M.A. Martini, **G. Voulgaris**, P.A. Work, K. A. Hanes and D. Hanes, 2006. South Carolina Coastal Erosion Study. Data Report for Observations October 2003 – April 2004. USGS Open-File Report 2005-1429. DVD-ROM Discs 2, U.S. Geological Survey, U.S. Department of the Interior.
- (24) Haas, K., H. Demir, P. Work, **G. Voulgaris** and S. Obley. 2004. Myrtle Beach Nearshore Experiment Dec 10 to Dec 15, 2003. Part II: Morphological and Remote Imagery Measurements. Unpublished Technical Report, Georgia Institute of Technology, Savannah Regional Campus, May 2004, 34pp. plus Appendices.
- (23) Obley, S., **G. Voulgaris**, K. Haas and P. Work, 2004. Myrtle Beach Nearshore Experiment Dec 10 to Dec 15, 2003. Part I: Hydrodynamic Measurements. Tech. Report CPSD/04/01, January 2004, 18pp. plus Appendices.
- (22) **Voulgaris, G.**, 2002. Disposed Material Mobility and Transport in the Vicinity of the Charleston Ocean Dredged Material Disposal Site. Final Report Submitted to the SC Department of Natural Resources, Marine Resources Division. Tech. Report., CPSD/02/01. June 2002, 29pp.
- (21) **Voulgaris, G.**, J.H. Trowbridge and E. Terray, 2001. Spatial Variability of Flow over a Linear Sand Ridge: Cruise Report. Woods Hole Oceanographic Institution, Woods Hole, MA, Tech. Report, WHOI-2001-09, 45pp.
- (20) Frederics, J., J.H. Trowbridge, and **G. Voulgaris**, 2001. Turbulence in the Shallow Nearshore Environment during SANDYDUCK '97. Woods Hole Oceanographic Institution, Woods Hole, MA, Tech. Report, WHOI-2001-02. 54pp.
- (19) Frederics, J., J.H. Trowbridge, A.J. Williams III, **G. Voulgaris** and W.J. Shaw, 2001. Fluid Mechanical Measurements within the Bottom Boundary Layer during Coastal Mixing and Optics. Woods Hole Oceanographic Institution, MA, Tech. Report, WHOI-2001-08. 194pp.
- (18) Salles, P., S. O'Malley, **G. Voulgaris** and D.G. Aubrey, 2000. Tidal and Hydrodynamics Measurements in Ria Formosa, Algarve, Portugal. Woods Hole Oceanographic Institution, MA, Tech. Report, WHOI-2000-04. 100pp
- (17) **Voulgaris, G.**, 2000. Flow Measurements in Salt-Marsh Tidal Channel Using the Vector Velocimeter. On-Line Technical Report http://www.nortekusa.com/PDF/Tidal_Channel.pdf.
- (16) Trowbridge, J.H. and **G. Voulgaris**, 1999. Nearshore Estimates of Turbulent Reynolds Shear Stress. IN: Coastal Ocean Processes Symposium: A Tribute to William D. Grant. Woods Hole Oceanographic Instit. Tech. Report, WHOI-99-04: 237-240.
- (15) O'Connor, J.J. Williams, J.M.A. Dias, **G. Voulgaris**, M.A. Davidson, S.M. Arens, H. Howa and A. Sarmiento, 1998. 3rd European Marine Science and Technology Conf., Lisbon 23-37 May 1998. Project synopses, Vol II: Strategic Marine Research: 601-609.
- (14) Aubrey, D.G., **G. Voulgaris**, W.D. Spencer, and S. O'Malley, 1997. Tidal Circulation and Flushing Characteristics of the Nauset Marsh System. Woods Hole Oceanographic Institution, MA, Tech. Report, WHOI-97-11. 124pp.

- (13) **Voulgaris, G.** and T. Mason, 1996. Coastal Process Measurements - What Should You Be Doing? Inst. Civil Eng. Meeting Report. Water Maritime and Energy, ICE, 118: 145-148.
- (12) **Voulgaris, G.**, (Contribution to 5 chapters) 1996. In: B. A. O'Connor (Editor), Circulation and Sediment Transport Around Banks - CSTAB. Handbook and Final Report, Project MAS2-CT92-0024, University of Liverpool, Department of Civil Engineering, Report No. CE/05/96, 634pp. (2 volumes).
- (11) **Voulgaris, G.** and M.B. Collins, 1994. Storm Damage - South Coast Shingle Study (R&D Contract, CSA 1839). Part II, Southampton University, Department of Oceanography, Final Report to MAFF, Tech. Report SUDO/TEC/94b/6/C, 5pp plus Appendices.
- (10) Velegrakis, A., **G. Voulgaris** and M.B. Collins, 1994. H.M. Customs and Excise. Operation Nebby: Location of Items Discarded by "Balanus/Abundance". Southampton University, Department of Oceanography, Tech. Report, SUDO/TC/94/14/C, 25pp plus Figures.
- (9) **Voulgaris, G.**, M.B. Collins and M Wilkin, 1993. Storm Damage - South Coast Shingle Study (R&D Contract, CSA 1839). Southampton University, Department of Oceanography, Annual Report (Year 2) to MAFF, Tech. Report, SUDO/TEC/93/8/C, 45pp plus Annex.
- (8) **Voulgaris, G.**, M.B. Collins, J Davis and M Wilkin, 1992. RoxAnn Sea Bed Discrimination System: In Situ and Laboratory Evaluation. University of Southampton, Department of Oceanography, Tech. Report, SUDO/TEC/92/4C, 29pp plus Figures.
- (7) Collins, M.B., S. Gao, **G. Voulgaris** and L. Whitcombe, 1992. Beach Processes and Coastal Stability in the Southampton Area. In: A E S Kemp (Editor) Field Excursion Guides of the 31st Annual Meeting of the British Sedimentological Research Group. Department of Oceanography, University of Southampton. pp. 5-19.
- (6) **Voulgaris, G.** and M.B. Collins, 1991. Storm Damage - South Coast Shingle Study (R&D Contract, CSA 1839). Southampton University, Department of Oceanography, Annual Report (Year 1) to MAFF, 47pp plus Figures.
- (5) Axe, P.G., **G. Voulgaris** and M.B. Collins, 1991. The ENDECO Type 1156 Directional Wave Track Buoy: A Preliminary Evaluation. University of Southampton, Department of Oceanography, Tech. Report, SUDO/TEC/91/23/C, 58pp.
- (4) **Voulgaris, G.** and G Ferentinos, 1990. Wind and Wave Climate in the Kithera Straits for the Laying of Power Cables Between Peloponnesos and Crete. Technical Report prepared for the Public Power Corporation of Greece. Geology Department, Laboratory of Marine Geology and Physical Oceanography, University of Patras, Greece. 15pp plus Tables and Figures.
- (3) **Voulgaris, G.** and M.B. Collins, 1990. USP RoxAnn Ground Discrimination System: A Preliminary Evaluation. University of Southampton, Department of Oceanography, Tech. Report, SUDO/TEC/90/5C, 33pp plus Figures.
- (2) **Voulgaris, G.**, 1989. Hydrodynamics and Suspended Sediment Movement in the Surf Zone. University of Southampton, Department of Oceanography, MPhil/PhD Transfer Report. 50pp plus Figures.
- (1) **Voulgaris, G.**, 1987. Heat Budget of a Greenhouse's Soil Surface. Unpublished Report prepared for ELKEPA (Greek Centre for the Development of Productivity), Biotechnology Division, 42pp (in Greek).