

## David Reide Corbett

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### EDUCATION

1999: Ph.D. in Chemical Oceanography (Geochemistry); Florida State University  
1996: M.S. in Chemical Oceanography (Geochemistry); Florida State University  
1994: B.S. in Chemistry; Florida State University

### PROFESSIONAL EXPERIENCE

12/2012 to present: Program Head, Coastal Processes Program, Coastal Studies Institute, Wanchese, NC 27981

- Coastal processes research, education, and outreach; develop new educational and outreach programs; engage public as it relates to coastal processes; develop new partnerships across academic institutions and State agencies

08/2011 to present: Professor and Senior Scientist, Department of Geological Sciences, Institute of Coastal Science & Policy, East Carolina University, Greenville, NC 27858

- Biogeochemistry of coastal ecosystems, sediment dynamics, coastal hydrology, nutrient/contaminant fate and transport in coastal watersheds

08/2006 to 08/2011: Associate Professor, Department of Geological Sciences, Institute of Coastal Science and Policy, East Carolina University, Greenville, NC 27858

08/2005 to present: Adjunct Associate Professor, Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, NC 27695

08/2000 to 08/2006: Assistant Professor, Department of Geology, Program in Coastal Resources Management, East Carolina University, Greenville, NC 27858

12/1999 to 08/2000: Postdoctoral Research Associate, Institute for Earth and Ecosystem Sciences, Dept. of Geology, Tulane University

- Supervisor: Dr. Brent McKee, currently at UNC CH, may be contacted
- Uranium cycling and sediment transport in the Mississippi River and associated continental shelf

08/1994 to 12/1999: Graduate Research Associate, Department of Oceanography, Florida State University, Tallahassee, Florida 32306-4320

- Radiochemical studies of groundwater, including  $^{222}\text{Rn}$  and  $\text{CH}_4$  as chemical tracers, employing  $^{131}\text{I}$ ,  $^{32}\text{P}$ ,  $^{15}\text{N}$ , and  $\text{SF}_6$  as tracers for sewage in coastal waters; sedimentological studies employing  $^{210}\text{Pb}$ ,  $^{226}\text{Ra}$ , and  $^{137}\text{Cs}$ ; extraction of  $^{239}\text{Pu}$  from seawater, and hydrological studies of coastal regions

06/1992 to 08/1994: Laboratory and Field Assistant, Department of Oceanography, Florida State University

- Maintained radon extraction line and collected and analyzed sediment and water samples for radioisotope studies

## **LEADERSHIP EXPERIENCE**

- 2017-present: Co-director, ECU Pan-University Research Cluster – Coastal & Marine Sciences
- The mission is to facilitate interdisciplinary scientific exploration, discovery and education across coastal and marine systems. The cluster's initial focus is on three broad areas – continental margin resources including non-renewable and renewable energy, cultural resources and biological resources; natural hazards including storms, saltwater intrusion and human vulnerability; and marine and coastal health including environmental and human health, health disparities and toxicology.
- 2017-present: member, College of the Albemarle; Board of Trustees
- 2016 to 2017: Chair, ECU Coastal Strategic Planning Committee, East Carolina University
- Develop a coherent, comprehensive and integrated strategic plan that maps out the next decade for ECU's involvement in coastal research, instruction, and outreach (including economic development).
- 2012 to present: Program Head, Coastal Processes Program, UNC Coastal Studies Institute, Wanchese, NC 27981
- Coastal processes research, education, and outreach; develop new educational and outreach programs; engage public as it relates to coastal processes; develop new partnerships across academic institutions and State agencies
- 2011 to 2012: Special Assistant for Diving and Water Safety, Institute of Coastal Science & Policy, East Carolina University.
- Assist the ICSP Director with the transition of personnel and management activities in the Diving and Water Safety Office
- 2007 to 2011: Assistant Chair, Department of Geological Sciences, East Carolina University
- Assist department chair in daily departmental activities, including staffing problems, hiring, course scheduling, budget allocation, strategic planning, annual reporting, developing MOUs with outside partners

## **RESEARCH INTERESTS**

My overall scientific interest is the cycling of biologically active constituents (e.g., carbon, nitrogen, phosphorus) in coastal and open ocean environments. I am especially interested in evaluating and quantifying pathways of nutrient delivery to the coastal ocean that have been either under estimated or potentially ignored altogether, such as groundwater discharge and advective transport associated with sediment disturbances. In addition, I am interested in the role humans and nature play in shaping the coastal zone. Specific areas of my on-going research include those focused on:

- *Sedimentary and geochemical processes in coastal environments*
- *Naturally-occurring radionuclides as tools for quantifying rates of sedimentary and biogeochemical processes*
- *Investigations of the discharge of groundwater into the coastal zone*
- *Deposition, remineralization and burial of carbon and nutrients in coastal margins*
- *Coastal Hazards & Resilience*

## **TEACHING EXPERIENCE**

- Coastal Geoscience, East Carolina University
- Analysis, Techniques and Methods of Coastal Ocean Research, East Carolina University

- Preparation of Geological Manuscripts, East Carolina University
- Advanced Oceanography, East Carolina University
- Marine Isotope Geochemistry, East Carolina University
- Introduction to Oceanography, East Carolina University
- Biogeochemistry, East Carolina University
- Coastal Geochemistry Seminar Series, Tulane University
- Marine Isotopic Chemistry; Florida State University
- Elementary Oceanography; Florida State University
- Elementary Oceanography; Keiser College, Florida
- Teaching Assistant, Department of Oceanography, Florida State University
- Field and Laboratory Research Techniques; Florida State University

### **RESEARCH CRUISE EXPERIENCE**

- March 16 – 27, 2016, R/V Neil Armstrong, Chief Scientist, NC Continental Margin. Study of sediment/carbon transport and accumulation on NC margin; measure across shelf Gulf Stream dynamics; evaluate geomorphic features along shelf edge.
- February 9 – March 16, 2014, R/V Laurence M. Gould, Chief Scientist, Western Antarctic Shelf. Collect water column stable and radio- tracers to quantify cross-shelf mixing in a larger groundwater-related study.
- December 9-20, 2012, R/V Laurence M. Gould, Chief Scientist, Western Antarctic Shelf. Collect water column stable and radio- tracers to quantify cross-shelf mixing in a larger groundwater-related study.
- August 2-9, 2011 R/V Cape Hatteras, Co-Chief Scientist, Gulf of Mexico. Evaluate flood deposit preservation and historic record of hurricane deposits. Collection of box cores.
- September 4-11, 2010 R/V Kaharoa, Co-Chief Scientist, Waiapoa Shelf, NZ. Examine the relationships between dispersal processes, sediment dynamics and stratal products. Deploy tripods, collect water samples, and collect multi-cores.
- May 18-26, 2010 R/V Kaharoa, Co-Chief Scientist, Waiapoa Shelf, NZ. Examine the relationships between dispersal processes, sediment dynamics and stratal products. Deploy tripods, collect water samples, and collect multi-cores.
- January 12-23, 2010. R/V Roger Revelle, Chief Scientist, Waiapoa Shelf, NZ. Examine the relationships between dispersal processes, sediment dynamics and stratal products. Deploy tripods, collect water samples, and collect multi-cores.
- September 19-20, 2007: R/V Pelican, Chief scientist, Gulf of Mexico. Evaluate storm deposit preservation and historic record. Collection of box and kasten cores.
- October 1-6, 2006: R/V Tangaroa, Poverty Bay, NZ. Evaluate down-slope transport of shelf sediment. Collection of multi-cores, piston cores, 3.5 kHz and multibeam geophysics.
- March 24- 27, 2006: R/V Hatteras; Onslow Bay. Paleo-channels as conduits of submarine groundwater discharge. Collection of Chirp and in situ real-time radon monitoring..
- September 26- October 6, 2005: R/V Hatteras, Chief Scientist; Gulf of Mexico. Seabed and Geochemical Deltaic Changes Induced by Hurricane Katrina. Collection of box and kasten cores.
- October 23-26, 2004: R/V Pelican, Chief scientist, Gulf of Mexico. Evaluate sediment disturbance associated with active hurricane season. Collection of box and kasten cores.

- May 20-23, April 20-23, March 6-9, 2004; December 12-15, November 20-23, October 19 to 23, 2003: R/V Pelican, Chief Scientist, Gulf of Mexico. Collection of water and sediment samples to evaluate the potential contribution of groundwater to Louisiana coastal waters.
- July, 2002: R/V Hatteras, Chief Scientist, Onslow Bay, NC shelf. Collection of water samples for radioisotopic analysis. Cruise was to further the understanding of eddy diffusivity in the coastal ocean.
- April 16 to April 30, 2001: *R/V Pelican*, Open Gulf of Mexico. Collection of water samples from blue water off of loop current. Samples analyzed for short-lived  $^{234}\text{Th}$ ,  $^{226}\text{Ra}$ , and  $^{222}\text{Rn}$  to evaluate rates of mixing and particle flux in surface waters.
- October 23 to 31, 2000: *R/V Pelican*, Louisiana Shelf. Low flow cruise to collect water samples and cores from shelf area. Director of sediment collection group.
- April 10 to April 20, 2000: *R/V Pelican*, Mississippi Shelf. Collection of water samples and cores from shelf area. Samples analyzed for U-series radionuclides to better understand carbon transport and storage on the margin of the Mississippi River.
- November 1 to November 5, 1999: *R/V Pelican*, Mississippi River. Collection of water samples and cores from New Orleans south to the mouth of the river. Samples analyzed for U-series nuclides to better understand particle transport in the Mississippi River.
- August 19 to August 27, 1998: *R/V Atlantis*, Gulf of Santa Catalina. Collection of cores from controlled and caged areas via *Alvin* to observe disturbances of macro- and meiofauna by pelagic and benthic predators. Collection of sediment for analysis of Th-234 to determine possible effects of caged areas on sedimentation.
- July, 1992 to December, 1994: *R/V Seminole*, Gulf of Mexico. Numerous offshore cruises to measure groundwater seepage, take CTD profiles, collect sediment and seawater samples for tracer analysis and study benthic fluxes on the Florida Platform
- July 28 to July 31, 1993: *R/V Bellows*, Apalachee Bay, Florida. Sample collection and analysis for natural tracers,  $^{222}\text{Rn}$  and  $\text{CH}_4$ , and collection of sub-bottom seismic data
- May 2 to May 6, 1992: *R/V Bellows*, Apalachee Bay, Florida. Collection of sub-bottom seismic data, installation of "Lee-type" seepage meters, and collection of sediment cores
- *Not included in the above list are the countless day trips made on smaller vessels and for land-based work.*

#### **AWARDS, SERVICE AND OTHER NOTABLE ACTIVITIES**

- 2018 to present: Resilient Coastal Sites in the Southeast, The Nature Conservancy; Steering Committee
- 2017 to present: Board of Trustees, College of the Albemarle
- 2017 to 2018: Fulbright Research Scholar (declined)
- 2016 to 2017: ECU University Scholar
- 2016 to 2017: Strategic planning committee for ECU coastal enterprise
- 2015 to present: UNC CSI Radiation Safety Officer
- 2014 to present: Associate Editor of Estuaries and Coasts (ESCO)
- 2014: Guest editor, Continental Shelf Research
- 2014 to 2017: ECU/UNW Joint PhD planning committee
- 2014 to 2015: ECU Enhancing and Growing the Research Enterprise (EGRE) Workgroup
- 2013: Awarded the Antarctic Service Medal
- 2013 to 2015: UNC CSI Research Planning Committee - Chair

2013: UNC General Administration Coastal & Marine Science Graduate Programs Workgroup - Chair

2012: ECU Coastal Writing Team: Help provide the University a strategic direction for the coastal enterprise

2012 to 2015: UNC CSI Field Operations Committee

2011: Department of Marine Fisheries Strategic Habitat Area Advisory Committee – Region 2

2010: NASA review panel

2009: Inducted into the ECU Servire Society for commitment to community service

2009: Invited scientist to participate in NSF-funded workshop between US and Egyptian Scientist; “Material Budgets along the Egyptian Coastline”, Alexandria, Egypt.

2009: Invited participant in NC Beach Management Summit, Morehead City, NC

2009: Selected participant in NSF-MARGINS Source to Sink Workshop, Gisborne, NZ

2008-2009: Chairman of the Curriculum Committee for Coastal Resources Management PhD program; complete revision and restructuring of the CRM curriculum

2008: Presented to the State of North Carolina Climate Change Commission

2008 to present: Albemarle-Pamlico National Estuary Program – Science & Technical Advisory Council; Chair (2012 - 2014)

2007: Department of Marine Fisheries Strategic Habitat Area Advisory Committee – Region 1

2006: East Carolina University 5-Year Research and Creativity Award

2006: Inducted into The Honor Society of Phi Kappa Phi

2006 to 2010: UNC – Coastal Studies Institute Science Coordinating Committee, member

2006 to 2008: ECU Faculty Senator

2005 to 2011: ECU University Research Council, member

2005 to 2011: ECU Coastal and Maritime Council, member

2004, 2005: NSF Chemical Oceanography panel member

2003 to 2008: Member, Joint International Commission on Ground water- Surface water Interactions (IAHS/IAPSO)

2002: Inducted into Sigma Xi , Scientific Research Society

2001 to 2009: Coastal Resources Management Admissions Committee

2001 to 2009: Coastal Resources Management Steering Committee

2001 to 2012: Duke/University of North Carolina Oceanographic Consortium Advisory Board

2001 to present: ECU Diving and Water Safety Control Board, Chair (2003 - present)

2000 to present: Reviewer for several Scientific Journals and Funding Agencies, including Limnology & Oceanography, Chemical Geology, Marine Geology, Continental Shelf Research, Environmental Radioactivity, Estuaries, Aquatic Geochemistry, NOAA, NSF, Sea Grant, and Natural Environment Research Council

2000: Travel Grant Award, Office of Naval Research

1999: Student Travel Grant Award, American Geophysical Union

1999: Dissertations Symposium on Chemical Oceanography Invited Participant (DISCO XV)

1998: National Science Foundation Travel Award to attend Fifty Years of Ocean Discovery Meeting

1998: Student Travel Grant Award, Department of Oceanography, Florida State University

1998: Thalassic Society Student Travel Grant Award, Florida State University

1997: Oceanography Student of the Year Award, Florida State University

1997: NOAA Estuarine Graduate Research Fellowship

1995 to 1999: College of Arts and Sciences Student Advisory Committee

1995 to 1999: Thalassic Society Graduate Student Organization President  
1995: Oak Ridge Institute for Science and Education Graduate Fellowship  
1994: Savannah River Ecology Laboratory Undergraduate Research Fellowship

### **PROFESSIONAL SOCIETIES**

American Society of Limnology and Oceanography  
American Geophysical Union  
Estuarine Research Federation  
American Academy of Underwater Sciences  
The Oceanography Society

### **FUNDED RESEARCH PROJECTS**

Submerged Aquatic Vegetation Evaluation in Currituck Sound (SAVE Currituck Sound). PI with JP Walsh. NC Department of Transportation. \$333,035. 7/1/17 – 6/30/19.

Sedimentary Petrology and Geological Framework Investigations in the Southeastern U.S. Outer Continental Shelf. Co-PI with Walsh, Howard (SCGS), Alexander (SkIO). BOEM thru SC Geological Survey. \$250,000 (\$52,187 to ECU). 9/2016 – 8/2018.

Assessing offshore sand resources for North Carolina: Phase 2. BOEM, Co-PI with Walsh, Mallinson, Freeman (Geodynamics). \$200,000. 9/2016-8/2018.

Sand Resource Data Assessment for Coastal State Waters of North Carolina. NC Division of Coastal Management. Co-PI with Walsh. \$49,956. 4/2016 – 7/2017.

Sedimentation in NC Tidal Creeks: Influence of Land-use Change and Primary Nursery Designation. NC Sea Grant, PI with Walsh; \$7,585. 12/2015 – 12/2016.

S-Curves Beach Nourishment Monitoring at Pea Island National Wildlife Refuge. US Fish and Wildlife Service, PI with Walsh; \$156,430. 8/2015 – 9/2017.

Monitoring Dynamics of the Oregon Inlet Terminal Groin. US Fish and Wildlife Service, Co-PI with Walsh; \$75,216. 8/2015 – 8/2020.

FRF Sound Observing System. Army Corps of Engineers Co-PI with Walsh; \$103,201; 10/2014-10/2015.

Research to support design and siting of deposition areas for dredged material from the Rodanthe Emergency Channel. NC DoT. Co-PI with White, Walsh, Piehler, Richards, McCord. \$371,030, 1/2015 – 6/2017.

Better Coastal Management through Data Availability: Improving new data exchange services in NC. Environmental Protection Agency, PI with Walsh and Moorman (USGS). \$57,800. 9/2014 – 8/2015.

Estuarine Shoreline Mapping Analysis: Evaluating the Digital Shoreline for the Albemarle-Pamlico Estuarine System. NC Division of Coastal Management, PI with Walsh. \$45,000. 12/2012-6/2014.

Designing a Multi-State and Regional Framework for CMSP and Decision-Making: A South Atlantic Alliance Initiative - Phase 2. NOAA, Sub-contract to Skidaway Institute of Oceanography, ECU PI with Walsh; and many outside of ECU. \$325,000 (\$14,334 ECU Portion), 12/2012 – 6/2014.

Collaborative Research: Submarine Groundwater and Freshwater Inputs Along the Western Antarctic Peninsula. NSF Antarctic Sciences, PI with Null, Lyons. \$585,911 (\$399,042 ECU portion), 8/15/12 -8/14/15.

Initiating a New Collaboration between East Carolina University and Universiti Malaysia Terengganu: Post-Glacial Variations in the East Asian Monsoon, NSF OISE, Co-PI with Culver, Mallinson, Leorri, Mitra, Walsh, Curtis. \$49,974. 3/1/12 – 2/28/14.

Designing a Multi-State and Regional Framework for CMSP and Decision-Making: A South Atlantic Alliance Initiative - Phase 1, NOAA, Sub-contract to Skidaway Institute of Oceanography, ECU PI with Walsh; and many outside of ECU. \$1,500,000 (\$73,479 ECU Portion), 3/1/2012 – 12/31/2013

RAPID: Collaborative Research: Signature of the 2011 Flooding on the Mississippi Subaqueous Delta. NSF Marine Geology & Geophysics; Co-PI with Walsh, Mitra, \$70,000 total (\$58,497 ECU portion). 7/15/11 – 7/14/13.

Advanced Regional and Decadal Predictions of Coastal Inundation for the U.S. Atlantic and Gulf Coasts. ECU PI with Horton, Peltier, Donnelly, Mann, Rahmstorf, Kemp, Lindeman, NOAA \$1,400,000 (\$78,936 ECU portion), 9/1/11 – 8/31/14.

Estuarine Shoreline Mapping: Creating a Digital Shoreline for the Albemarle-Pamlico Estuarine System. NC Division of Coastal Management, 7/1/2010-12/31/2011, AMENDMENT: Co-PI with Walsh, \$44,345 added.

Attacking Coastal Hazards of North Carolina. NC-Renaissance Computing Institute, 7/1/2010-6/30/11, Renewal Proposal for 2009-2012. Co-PI with several others at ECU. Second year of this renewal project was funded at a \$200,000 level.

Assessment of the cycling and compartmentalization of nitrogen and phosphorus in saturated soils, sediments, and the water column in Lake Jesup, Florida. Florida International University. PI, \$13,000. 7/1/10 – 9/30/11.

Rates and Processes of Vital Wetland Habitat Loss in the Albemarle-Pamlico Estuarine System. PI with JP Walsh. NC Dept. of Environmental & Natural Resources. \$58,440 05/10 – 04/11.

Formation, Reworking and Accumulation of Sedimentary Deposits, Waipaoa River Shelf, New Zealand. National Science Foundation MARGINS Program, Co-PI with JP Walsh. Total collaborative proposal with C. Harris, A. Ogston, A. Orpin of \$887,180; \$384,874 to ECU. 8/1/2009-7/31/2012.

RENCI @ East Carolina University: Regional Engagement Center: Attacking Coastal Hazards of North Carolina. NC-Renaissance Computing Institute, Co-PI with several others at ECU. \$390,000 for 3 years; a total of \$1,170,000; The State of NC subsequently cut the RENC budget, so RENC@ECU was reduced to \$200,000 for 7/1/09-6/30/10.

Towards integration of estuarine observing. UNC Competitiveness (State of NC. Co-PI with many researchers, lead by S. Culver and L. Leonard, \$150,000, \$73,500 to ECU. ), 12/3/08-6/30/09

Wave and Current Observing Measurements. PI with JP Walsh (ECU). Army Corps of Engineers. \$11,500 08/01/08 - 07/30/09

Estuarine Shoreline Mapping: Creating a Digital Shoreline for the Albemarle-Pamlico Estuarine System. Co-PI with JP Walsh. NC Division of Coastal Management. \$62,425 07/08-12/10

Wave and Current Observing Measurements. PI with Nancy White (CSI) and JP Walsh (ECU). Army Corps of Engineers. \$80,000 06/01/07 - 09/30/07.

North Carolina Coastal Hazards: Economic Implications of Severe Storms and Sea-Level Rise. UNC Competitiveness (State of NC), Co-PI with many researchers, lead by S. Culver and S. Riggs, \$320,772, funded at \$288,694, 12/3/07-6/30/08.

Towards an estuarine ecosystem model: waves, seabed dynamics, and benthic community changes in a shallow estuary. PI with JP Walsh and Lisa Clough. ECU \$23,725; 6/07-6/08.

RENCI @ East Carolina University: Regional Engagement Center for Coastal Systems Informatics and Modeling (C-SIM). Co-PI with several researchers at ECU. Renaissance Computing Institute. \$1,700,000 10/31/06-8/1/09

Seabed and Geochemical Deltaic Changes Induced by Hurricane Katrina. PI with JP Walsh, and Dave Mallinson. NSF Chem Ocean. \$150,626 10/15/05 – 10/15/07

Terrestrial Sediment Accumulation in La Paguera Reef and Mangrove Environments. Co-PI with JP Walsh, Univ. Puerto Rico subcontract. \$41,065 7/29/05 – 3/31/06

Evaluating the Impact of Benthic Weather on Fish Behavior: Development and Application of a Remote Estuarine Observing Station in Pamlico Sound. ECU \$28,000; 6/05-6/06.

Investigation of a Decapitated Paleo-River System on the Mid-Atlantic Continental Shelf. 5days shiptime, Co-PI with JP Walsh and Dave Mallinson, Duke/UNC Oceanographic Consortia, ~\$40,000 equivalent; 06/05-10/05

Shore-Zone Dynamics in Response to Sea level Rise. PI with JP Walsh, Stan Riggs, Mark Brinson, and Bob Christian, NOAA COP, \$460,626, May 1, 2005 – June 30, 2009.

Radionuclide analysis of samples from the USGS.USGS Contract, 6/1/05-5/31/06, Co-PI with JP Walsh, \$6,000.

Massive Sediment Remobilization off the Mississippi Delta in Response to Hurricane Ivan. PI, NSF Chem Ocean SGER, \$32,221; 10/04-10/05.

Acquisition of instrumentation to enhance research and teaching of the coastal processes research group at East Carolina University. PI, NSF Major Research Instrumentation, \$443,971, 7/15/04-7/14/07.

Determination of the effect of overwash events on chloride concentrations in the surficial aquifers under high relief dunes on Cape Lookout, Cape Lookout National Seashore. Co-PI, National Park Service, \$5,689, 1/04-1/05.

Exploration of the subsurface and development of a water production well on Cape Lookout, Cape Lookout National Seashore NPS-Well. Co-PI, National Park Service, \$104,796, 5/04-5/05

REU Supplement: Short-term Mobile Mud Dynamics Adjacent to the Mississippi River Delta. PI, NSF-Chem Ocean, \$10,800

Sea-level change and coastal evolution: Impacts on Wakatobi National Park, Indonesia. Co-PI with Ben Horton, UPenn; Charlotte Bryant, NERC Radiocarbon; Glenn Milne, Univ. Durham, National Environment Research Council, 21 AMS radiocarbon dates. 10/03 – 9/05.

A Multiple Tracer Approach to Evaluate Groundwater Discharge into River Dominated Coastal Waters , Corbett PI, ECU College of Arts & Sciences Research Award; Spring '04.

RUI/MRI: Acquisition of an Environmental Scanning Electron Microscope for Research and Teaching, Co-PI, NSF, \$256,422; 8/03-8/05.

Development of Environmental Proxies for Coastal Environments, Corbett, PI; NSF/Duke University subcontract \$19,726; 6/03-5/05.

Quantifying nitrogen transport from groundwater to a river in a large agricultural watershed in North Carolina; Co-PI, USDA/Subcontract to ECU, \$349,764 total, 9/03-9/06.

Sedimentologic, Geomorphic, and Ecologic analysis of Merchants Millpond State Park: Implications for long-term management. Co-PI, NCDENR, \$50,000

Barrier Island Hydrology: A Potentially Important Source of Nutrients to Our Estuaries, Corbett PI; ECU Faculty Senate, \$19,000; 5/03-5/04.

A Multiple Tracer Approach to Evaluate Groundwater Discharge into River Dominated Coastal Waters; Corbett (ECU – PI), Brent McKee (Tulane Univ.), Zafer Top (univ. Miami); NSF-Chem Ocean; \$400,000 total, 10/02 – 9/05.



- Evaluating the Effects of Bottom Trawls in the Pamlico Sound, NC: An Application of Remote Sensing to Monitoring Sediment Resuspension, Corbett (ECU, PI), Terry West (ECU Biology), Lisa Clough (ECU, Biology); NASA; \$75,000, 03/01/02-02/28/03.
- Evaluating Eddy Diffusive Mixing Processes Via Natural Tracers; Corbett (ECU, PI), Jaye Cable (Louisiana State Univ), Susan Welsh (Louisiana State Univ); 7days shiptime, Duke/UNC Oceanographic Consortia; \$45,060; 06/02-08/02.
- Potential Impacts of Bottom Trawling on Water Column Productivity and Sediment Transport; Corbett, West (Biology), Clough (Biology); NC Sea Grant, \$66,400, 06/01/01-05/31/03.
- Sediment Resuspension in the Pamlico and Neuse River Estuaries – An Additional Source of Nutrients and Contaminants; Corbett and Riggs; Water Resources Research Institute; \$38,432, 3/1/01 – 2/28/02.
- North Carolina Quaternary Stratigraphy and Regional Geologic Synthesis; Riggs, Culver, Corbett, and Mallinson; USGS, \$1,070,290; 10/01/00-09/30/08.
- Establishing Natural Patterns of Sediment Resuspension: Precursor to Understanding the Potential Impacts of Trawling; Corbett; NC Sea Grant \$6,500; 1/01/01 – 9/31/01.
- Sediment Resuspension in the Neuse River Estuary; D.R. Corbett, Faculty Senate Creativity Grant; \$16,790; 2000-2001.
- Tracer Techniques to Evaluate Rates of Non-point Source Pollution from Barrier Islands to Surface Water. PIs - W.C. Burnett, J. Chanton, and D. R. Corbett, Florida Sea Grant College Program \$172,500. 2000-2002
- Determination of an On-site Sewage Set-back for Seasonally Inundated Wetlands. Pis – J. Chanton, W.C. Burnett, and D. R. Corbett. Florida Department of Health \$75,000. 1999-2000.
- Water Quality within Apalachicola National Estuarine Reserve. PIs - D. Reide Corbett and R. Iverson. Florida Department of Health \$111,288. 1997-1999.
- Use of Artificial Tracers to Determine the Impact of Small-Scale Domestic Sewage Systems on Apalachicola Bay. PIs - D. Reide Corbett and W. Burnett. NOAA \$70,500. 1997-2000.
- Determination of Rn-222 in Natural Waters *via* Electret Ion Chambers. PIs - D. Reide Corbett and W. Burnett. Rad Elec Inc. \$5,500. 1995-1996.

**PEER-REVIEWED PUBLICATIONS** (student authors are italicized)

103. Corbett, D.R., J.P. Walsh, P. Santschi. Radioactive Nuclides. In *Chemical Oceanography of the Gulf of Mexico*. Eds. T. Bianchi and H. Bustos-Serrano. Texas A&M University Press. In press.
102. *Conery, I.*, J.P. Walsh, D.R. Corbett. Decadal-scale evolution of a barrier island: Insights from storm overwash and shoreline change on Ocracoke Island, NC. *Estuaries and Coasts*. <https://doi.org/10.1007/s12237-018-0374-y>.
101. *Eulie, D.* Corbett, D.R., J.P. Walsh, 2018. Shoreline erosion and decadal sediment accumulation in the Tar-Pamlico Estuary, North Carolina, USA: A source-to-sink analysis. *Estuarine, Coasts, and Shelf Sciences*. 202, 246-258.
100. Corbett, D.R., J.P. Walsh, *Y. Zhao*, 2017. Impacts of Land-Use Change on Sedimentation in Tidal Creeks of North Carolina. *Journal of Geography and Earth Sciences*. 5(1) 1-25. DOI: 10.15640/jges.v5n1a1.
99. Corbett, D.R., *J. Crenshaw*, K. Null, R.N. Peterson, *L.E. Peterson*, W.R. Lyons, 2017. Nearshore Mixing and Nutrient Delivery along the Western Antarctic Peninsula. *Antarctic Sciences*. 1-13. DOI:10.1017/S095410201700013X.

98. Paris, P., J.P. Walsh, D.R. Corbett, 2016. Where the Continent Ends. *Geophysical Research Letters*. 43, 12208-12216. doi:10.1002/2016GL071130.
97. Eulie, D., J.P. Walsh, D.R. Corbett, R.P. Mulligan, 2017. Temporal and Spatial Dynamics of Estuarine Shoreline Change in the Albemarle-Pamlico Estuarine System, North Carolina, USA. *Estuaries and Coasts*. DOI 10.1007/s12237-016-0143-8.
96. Tichenor, H.R., S.J. Culver, D.R. Corbett, J.P. Walsh, M.A. Buzas, 2016. Does the PEB Index Respond only to Hypoxia In the Mississippi Delta, Gulf of Mexico? *Journal of Foraminiferal Research*. 46(1) 48-60.
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#### **TECHNICAL REPORTS AND MEETING PROCEEDINGS**

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- Freeman, L.A., D.R. Corbett, A.M. Fitzgerald, D.A. Lemley, A. Quigg, C.N. Steppe. Impacts of Urbanization on Estuarine Ecosystems and Water Quality. Estuaries and Coasts. Under review.
- D.R. Corbett, *J. Crenshaw*, R.N. Peterson, *L.E. Peterson*, C.S. Buck, W.B. Lyons. Meltwater Pathways and Iron Delivery to the Antarctic Coastal Ocean. Marine Chemistry. To be submitted.
- Corbett, K. Null, *J. Crenshaw*, R.N. Peterson, *L.E. Peterson*, W.B. Lyons. Coastal groundwater discharge along the Western Antarctic Peninsula delineated by  $^{224}\text{Ra}$ ,  $^{222}\text{Rn}$ , and electrical resistivity. Polar Research. To be submitted.

*In addition, I have over 150 published abstracts and have presented at more than 100 scientific meetings and universities.*

## **ADVISING AND MENTORING EXPERIENCE**

### **Postdoctoral Scholars**

Paul Paris  
Kimberly Null  
Brad Pickens

### **Graduate Students – Advisor Ph.D.**

Ian Conery, ECU, Coastal Resources Management Ph.D, active  
Devon Eulie, ECU, Coastal Resources Management Ph.D, Spring 2014  
Clay McCoy; ECU, Coastal Resources Management Ph.D., Spring 2006  
Dan Giffin; ECU, Coastal Resources Management Ph.D., Spring 2003

### **Graduate Students – Advisor M.S.**

Natasha Biarrieta, ECU Geological Sciences MS, advisor, active  
Dave Sybert, ECU Geological Sciences MS, advisor, active  
Luke Stevens, ECU Geological Sciences MS, advisor, 2017  
Brian Gallagher, ECU Geological Sciences MS, advisor, 2017  
Nick Kelly, ECU Geological Sciences MS, advisor, 2017  
CJ Cornette, ECU Geological Sciences MS, advisor, 2016  
Katherine Curruth, ECU Geological Sciences Hydro Certificate, advisor, 2016  
Jared Crenshaw, ECU Geological Sciences MS, advisor, 2015  
Jessica Strand, ECU Geological Sciences MS, advisor, 2015  
David Hawkins, ECU Geological Sciences MS, Co-advisor, 2015  
Ian Conery, ECU Geological Sciences MS, Co-advisor, 2014  
David Young, ECU Geological Sciences MS, Co-advisor, 2014  
Joey Kiker, ECU Geological Sciences MS, Co-advisor, 2012  
Dimitri Quafsi, ECU Geological Sciences MS, Co-advisor, 2010  
David Lagomasino, ECU, Geological Sciences MS, Co-advisor, Fall, 2009  
Lisa Cowart, ECU, Geological Sciences MS, Co-advisor, Fall 2009  
Rebecca Pruitt, Geological Sciences MS, Co-advisor, Fall 2008  
Sophie Dillard, ECU, Geological Sciences MS, Co-advisor, Fall 2008  
Kat Marciniak, ECU, Geological Sciences MS, Co-advisor, Fall 2007  
Brad Elkins, ECU, Geological Sciences MS, Advisor, Fall 2007  
Michael Dail, ECU, Geological Sciences MS, Advisor, 2006  
James Frank, ECU, Geological Sciences MS, Advisor, 2004  
Lance Tully, ECU, Geological Sciences MS, Advisor, 2004  
Christopher Smith, ECU, Geological Sciences MS, Co-Advisor, 2004  
Irene Abenne, ECU, Geological Sciences MS, Co-Advisor, 2004  
David Vance, ECU, Geological Sciences MS, Co-Advisor, 2004  
John Friedrichs, ECU, Geological Sciences MS, Co-Advisor, 2004  
Erin Letrick, ECU, Geological Sciences MS, Co-Advisor, 2003  
Matt Allen, ECU, Geological Sciences MS, Advisor, 2002

### **Graduate Students – Committee Member**

Jill Arriola, UNC-CH PhD, Committee, active  
Chequita Brooks, IDPBS Ph.D., Committee, active

Gillian Gunderson, NCSU MS, Committee Member, 2017  
Melinda Reynolds, ECU, CRM Ph.D, Committee Member, 2015  
Drew Caffey, CRM Ph.D, Committee Member, 2013  
Alisha Ellis, Geological Sciences MS, Committee Member, 2013  
Ray Tichenor, Geological Sciences MS, Committee Member, 2014  
Jeff Dobbs, Biological Sciences MS, Committee Member, 2014  
Dan Zapf, Biological Sciences MS, Committee Member, active  
Hannah Thornburg, Geological Sciences MS, Committee Member, 2013  
Katrina Rabien, Geological Sciences MS, Committee Member, 2012  
Nidhi Patel, Geological Sciences MS, Committee Member, 2011  
Jeanette Hayman, ECU, Maritime Studies MS, Committee Member, 2011  
Kim Null, NCSU, MEAS Ph.D., Committee Member, Spring, 2010  
Reanna Camp, ECU, Geological Sciences MS, Committee Member, Fall, 2009  
Charlie Humphries, ECU, CRM Ph.D, Committee Member, Fall 2009  
Dave VanDeVelde, Geological Sciences MS, Committee Member, Fall 2009  
Casey Kennedy, NCSU, MEAS Ph.D., Committee Member, Fall, 2008  
Christopher Stanton, Geological Sciences MS, Committee Member, Fall 2008  
Jennifer Foley, Geological Sciences MS, Committee Member, Spring 2007  
Valerie Peterson, Duke University, MS Ocean Science, Committee Member, Spring 2007  
Jesse Gavette, ECU, Chemistry, Committee Member, Spring 2007  
Katie Ryan, ECU, Geological Sciences MS, Committee Member, Spring 2007  
Ben Sumners, ECU, Geological Sciences MS, Committee Member, Fall 2007  
Manny Lorenzo, ECU, CRM Ph.D, Committee Member, Fall, 2007  
Worth Calfee, ECU, CRM Ph.D, Committee Member, Spring 2006  
Jeb Rosenberger, Geological Sciences MS, Committee Member, Spring 2006  
Erin Hemric, ECU, Geological Sciences MS, Committee Member, Fall 2006  
Bo Dame, ECU, CRM Ph.D, Committee Member, Fall 2006  
Rebecca Cooper, ECU, CRM Ph.D, Committee Member, Spring 2006  
Jessica Curci, ECU, CRM Ph.D, Committee Member, Spring 2005  
Amy Caulder, Geological Sciences MS, Committee Member, Spring 2003  
Lauren Hedges, Geological Sciences MS, Committee Member, Spring 2003  
Michelle Warren, Geological Sciences MS, Committee Member, Fall 2002

### **Undergraduate Students**

Alexander Smith, UNC-CH undergraduate thesis committee, 2018  
Caitlin Seyfried, UNC-CH Field School, honors thesis, 2016-2017  
Alexander Smith, UNC-CH Field School, 2016  
Brianna Jennings, UNC CSI, 2016  
Stephanie Balbuena, ECU Geological Sciences, 2011 - 2013  
Erik Thornton, ECU Geological Sciences, 2011 - 2012  
Anne Ditlevson, ECU Geological Sciences, 2011 - 2012  
Brian Burgess, ECU Geological Sciences, 2008-2011  
Scott Elkins, ECU Geological Sciences, 2009-2011  
William Rouse, ECU Geological Sciences, 2009-2011  
Brandon Hill, ECU Geological Sciences, 2009-2010  
Haley Claekner, ECU Geological Sciences, 2007-2008

Guy Iverson, ECU Geological Sciences, 2007-2009  
Brion Byers, ECU Geological Sciences, 2005-2006  
Katherine Marciniak, ECU Geological Sciences, 2004  
Brad Elkins, ECU Geological Sciences, 2003-2005  
Michael Dail, ECU Geological Sciences, 2003-2004  
Adam Hummel, ECU Geological Sciences, 2001-2002

#### **MEDIA ATTENTION FOR WORK**

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