

Merryl Lynn Alber

ACADEMIC HISTORY

Education:

B.S. 1981 Zoology/Botany, Duke University, Durham, NC

Magna cum laude, Distinction in Zoology

Ph.D. 1992 Biology, Boston University Marine Program, Woods Hole, MA

Dissertation: "Organic aggregates in detrital food webs: production from marine macrophyte-derived dissolved organic material, composition, and incorporation by suspension-feeding bivalves"

Academic Positions:

9/01 - present Associate Professor, Marine Sciences Dept., University of Georgia, Athens, GA.

9/95-8/01 Assistant Professor, Marine Sciences Dept., University of Georgia, Athens, GA.

12/94 -present Faculty Associate, Conservation Ecology program, University of Georgia.

4/94-8/95 Assistant Research Scientist, Marine Sciences Dept., University of Georgia, Athens, GA.

6/92-3/94 Marine Ecologist, Massachusetts Water Resources Authority, Boston, MA.

7/92-8/93 Summer Faculty, School of Environmental Science, Bard College, Annandale-On-Hudson, NY.

Representative publications:

Smith, C.B., M. Alber, and A.G. Chalmers. Analysis of Tidal Marsh Vegetation Patterns in Two Georgia Estuaries Using Aerial Photography and GIS. (To be submitted to *Estuaries*)

White, S.N. and M. Alber, 2003. *Spartina* species zonation along the Altamaha River Estuary. In: Hatcher, K.J., editor, Proceeding of the 2003 Georgia Water Resources Conference, Athens, GA. pp. 739-742

Dame, R., M. Alber, D. Allen, M. Mallin, C. Montague, A. Lewitus, A. Chalmers, R. Gardner, C. Gilman, B. Kjerfve, J. Pinckney, and N. Smith. 2000. Estuaries of the South Atlantic coast of North America: their geographical signatures. *Estuaries*. 23:793-819.

Alber, M. 2002. A Conceptual Model of Estuarine Inflow Management. *Estuaries*. 25: 1246-1261.

Sheldon, J.E. and M. Alber. 2002. A comparison of residence time calculations using simple compartment models of the Altamaha River Estuary, Georgia. *Estuaries* 25:1304-1317

M. Alber. 2000. Settleable and non-settleable suspended sediments in the Ogeechee River Estuary, Georgia USA. *Estuarine, Coastal and Shelf Science*. 50: 805-816.

M. Alber, and J. E. Sheldon. 1999a. Use of a date-specific method to examine variability in the flushing times of Georgia estuaries. *Estuarine, Coastal and Shelf Science* 49: 469-482.

Blanton, J., C. Alexander, M. Alber, and G. Kineke. 1999. The mobilization and deposition of mud deposits in a coastal plain estuary. *Limnologica*. 29: 293-300.

Alber, M. and I. Valiela. 1995. Organic aggregates in detrital food webs: Incorporation by bay scallops, *Argopecten irradians*. *Mar. Ecol. Prog. Ser.* 121: 117-124.

Alber, M. and I. Valiela. 1994a. Production of microbial organic aggregates from macrophyte-derived dissolved organic material. *Limnol. Oceanogr.* 39: 37-50.

SYNERGISTIC ACTIVITIES

Freshwater Inflow: Science, Policy, Management. Organized a special session on this topic at the 2001 Estuarine Research Federation Meeting, St. Pete Beach, FL. and served as guest editor for a dedicated issue of *Estuaries* (Volume 25, No. 6B)

Georgia Coastal Research Council. I founded this group as a way to provide mechanisms for improved scientific exchange between coastal scientists and decision makers in the State of Georgia. (www.marsci.uga.edu/coastalcouncil)

ERF Initiative on Biocomplexity. I serve on the steering committee of this effort and as chair of a working group at a workshop held in April 2002 on the responses of estuaries to climate change. I am first author on the paper that is being prepared as a result of this meeting and am also helping to organize a special symposium on this topic at the 2003 ERF meeting.

Georgia Comprehensive Water Plan Study Committee This Committee was created by the Georgia General Assembly to serve as a technical advisory committee in the development of a State Water Management.

NOAA Eutrophication effort I was an invited participant at a NOAA-led workshop in Laurel, MD and will be participating in one of the working groups being formed to help in this effort.

Coastal Management Performance Measures and Indicators Served as a panel member for this study, which was organized by the Heinz Center in collaboration with NOAA to develop a common framework and a consistent set of measurable performance indicators to be used by coastal zone managers and decision makers.

South Florida Water Management District Served as an expert peer reviewer for the Proposed Minimum Flow Criteria for the Loxahatchee River and Estuary within the South Florida Water Management District.

Southeastern Estuarine Research Society. Served as Member-at-large (3/96-4/97), Secretary/Treasurer (4/97-4/99), and as coordinator of the list serve (12/97-present)

Thomas Dale Bishop

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Education

B.S. 1977; Southwest Missouri State University; Department of Biology
M. S. 1981; University of Louisiana, Lafayette; Department of Biology
Ph.D. 1995; University of Georgia; Department of Ecology

Professional Activities

2000 – Present: Post Doctoral Research Associate, GCE - Long Term Ecological Research program; University of Georgia.
2002 – 2003: Post Doctoral Research Associate, Hydroacoustic Fisheries Survey, Georgia Sea Grant Program; University of Georgia.
2002 – 2003: Consultant, Invasive Decapod Crab Monitoring, National Estuarine Research Reserve System and Sapelo Island National Estuarine Research Reserve.
2001: Consultant, Oyster Reef Faunal Associates Survey, Sapelo Island National Estuarine Research Reserve.
2000: Interim Collections Manager, Georgia Museum of Natural History; University of Georgia.
1997 – 2000: Systems and Database Manager, Georgia Rivers Land Margin Ecosystems Research program; University of Georgia.

Selected Publications / Presentations:

Ogburn, M., T.D. Bishop, and M. Alber, 2003. Population dynamics of two salt marsh snails in three Georgia estuaries. Southeastern Estuarine Research Society and Atlantic Estuarine Research Society joint meeting, March 20 – 23, Atlantic Beach, North Carolina.

Bishop, T.D., Alber, M. and Wiegert, R.G., 2001. Macrofaunal population shifts and changing coastal salinity regimes, Estuarine Research Federation 2001: An Estuarine Odyssey, Nov. 4-8, 2001, St. Pete Beach, FL.

G.E. Goodbody, M. Alber and T.D. Bishop. 2001. Distribution of *Littoraria* and *Melampus* in the salt marshes of the Satilla River Estuary. Southeastern Estuarine Research Society, Charleston, South Carolina, March 29-31, 2001.

Wrona, A.B., R.G. Wiegert and T.D. Bishop. 1995. Initial report of settlement patterns of brachyuran megalopae at Sapelo Island, Georgia, U.S.A. *Bulletin of Marine Science*, 57(3):807-820.

Pulliam, H.R., J. Liu, J.B. Dunning, Jr., D.J. Stewart and T.D. Bishop. 1994. Modeling animal populations in changing landscapes. *Ibis* 137:S120-S126.

LaSalle, M. W. and T. D. Bishop. 1990. Food habits of two larval flies (Dolichopodidae: Diptera) in two Gulf Coast oligohaline tidal marshes. *Estuaries*, 13(3):341-348.

Bishop, T. D. and C. T. Hackney. 1987. A comparative study of the mollusc communities of two oligohaline intertidal marshes: spatial and temporal distribution of abundance and biomass. *Estuaries*, 10 (2):141-152.

LaSalle, M. W. and T. D. Bishop. 1987. Seasonal abundance of aquatic Diptera in two oligohaline tidal marshes in Mississippi. *Estuaries*, 10(4):303-315.

Bishop, T. D. 1984. A range extension for *Manayunkia aestuarina* (Bourne, 1883) (Polychaeta: Sabellidae) to the Gulf Coast of the United States with a review of previous habitat information. *Gulf Research Reports*, 7(4):389-392.

Jackson O. Blanton

Professor
Skidaway Institute of Oceanography
10 Ocean Science Circle
Savannah, GA 31411
(912) 598-2457, internet: jack@skio.peachnet.edu

Professional Preparation:

University of Florida	Civil Engineering	B.S.	1962
Oregon State	Physical Oceanography	M.S.	1963
Oregon State	Physical Oceanography	Ph.D.	1968

Appointments:

1982-present Professor, Skidaway Institute of Oceanography
Adjunct Professor, School of Marine Sciences, The University of Georgia
Adjunct Professor, School of Earth and Atmospheric Sciences, Ga. Inst. Tech.
Adjunct Professor, Marine Science Program, University of South Carolina

1976-1982 Associate Professor, Skidaway Institute of Oceanography
Adjunct Associate Professor, School of Geophysical Sciences, Ga. Inst. Tech.

1974-1976 Program Manager, U. S. Energy Research and Development Administration,
Biomedical and Environmental Research, Coastal Oceanography Program

1970-1974 Research Scientist, Physical Limnology, Canada Centre for Inland Waters

1968-1970 Assistant Professor, Duke University Marine Laboratory, Beaufort, NC

1965-1966 Research Associate, Department of Coastal Engineering, University of Florida

Publications

2003 Blanton, J.O., H.E. Seim, C.R. Alexander, J. Amft and G. Kineke. Transport of salt and suspended sediments in a curving channel of a coastal plain estuary: Satilla River, GA. *Estuarine, Coastal and Shelf Science*. In press.

2002 Blanton, J.O., G. Lin and S.A. Elston. Tidal current asymmetry in shallow estuaries and tidal creeks. *Continental Shelf Research* 22: 1731-1743.

2001 Blanton, J.O. and F.A. Andrade. Distortion of tidal currents and the lateral transfer of salt in a shallow coastal plain estuary (O Estuário do Mira, Portugal). *Estuaries* 24: 467-480.

2000 Blanton, J.O., F. A. Andrade, and M.A. Ferreira. Effect of a broad shallow sill on tidal circulation and salt transport in the entrance to a coastal plain estuary (Mira B Vila Nova de Milfontes, Portugal). *Estuaries* 23: 293-304.

1996 Blanton, J. Reinforcement of gravitational circulation by wind. In: *Buoyancy Effects on Coastal and Estuarine Dynamics, Coastal and Estuarine Studies Volume 53*, D.G. Aubrey and C.T. Friedrichs (Eds.), pages 47-58. American Geophysical Union. Washington, DC.

1994 Blanton, J.O., F. Werner, C. Kim, L. Atkinson, T. Lee and D. Savidge. Transport and fate of low-density water in a coastal frontal zone. *Cont. Shelf Res.* 14: 401-427.

1989 Blanton, J.O., J.A. Amft, D.K. Lee, and A. Riordan. Wind stress and heat fluxes observed during Winter and Spring, 1986. *J. Geophys. Res.* 94: 10,686-10,698.

- 1989 Blanton, J.O., L.-Y. Oey, J. Amft and T.N. Lee. Advection of momentum and buoyancy in a coastal frontal zone. *J. Phys. Oceanogr.* 19: 98-115.
- 1986 Blanton, J. O. 1986. Coastal frontal zones as barriers to offshore fluxes of contaminants. *Rapp. P. -v. Reun. Cons. int. Explor. Mer*, 186: 18-30.
- 1983 Blanton, J. O. and L. P. Atkinson. Transport and fate of river discharge on the continental shelf of the southeastern United States. *J. Geophys. Res.*, 88(C8): 4730-4738.
- 1981 Blanton, J. O. Ocean currents along a nearshore frontal zone on the continental shelf of the Southeastern United States. *J. Phys. Oceanogr.*, 11(12): 1627-1637.

Synergistic Activities:

Senior Fulbright Fellow 1997-1998 Lisbon Portugal (Teaching + Research)

Sponsor exchange students and faculty from Portugal conducting research in estuaries

Developed course on Physical Oceanography of Estuaries and Coastal Seas for non-physically oriented students

Collaborators and Other Affiliations:

(i) Collaborators.

Alexander, C., SkIO	Haidvogel, D., Rutgers	Peters, H., RSMAS
Alber, M., UGA	Hench, J., UNC	Porter, D., USC-SC
Andrade, F., U. Lisbon	Hollibaugh, T., UGA	Seim, H., UNC/SkIO
Barans, C., DNR-SC	Jahnke, R., SkIO	Wenner, E., DNR-SC
Chalmers, A., UGA	Kineke, G., U Boston	Werner, F., UNC
Chen, C., UGA	Li, Chunyan	Wiegert, R., UGA
Churchill, J., WHOI	Leuttich, R., UNC	
Di Iorio, D., UGA	Miller, J., NRL/MS	
Ferreira, A., U. Lisbon	Moran, M., UGA	
Gross, T., NOAA	Nelson, J., SkIO	

(ii) Graduate and Post Doctoral Advisors. Deceased

(iii) Thesis Advisor and Postgraduate-Scholar Sponsor. Susan Elston-Graham - Georgia Institute of Technology - Atlanta

Adrian Benedict Burd

WORK ADDRESS:

Department of Marine Sciences
Marine Sciences Building
University of Georgia
Athens, GA 30602-3636

PERSONAL PREPARATION:

University of Sussex (UK), Astronomy, D.Phil. 1987.

Cambridge University, Cambridge (UK), Theoretical Physics, Certificate of Advanced Studies in Mathematics, 1984

University College, London (UK), Astronomy, B.Sc. 1983

PROFESSIONAL EXPERIENCE:

Assistant Professor, Department of Marine Sciences, University of Georgia, Georgia, [U.S.A.](#), Jan. 2002

Assistant Research Scientist, Department of Oceanography, Texas A&M University, Texas, [U.S.A.](#) 1997 - 2001

Postdoctoral Research Assistant, Department of Oceanography, Texas A&M University, Texas, [U.S.A.](#) 1994-1997

Postdoctoral Research Associate, Department of Oceanography, Dalhousie University, Nova Scotia, Canada. 1993-1994.

Lecturer, Department of Applied Mathematics, University of Cape Town, South Africa, 1992.

Research Associate, McDonnell Center for the Space Sciences, Washington University, St. Louis, [U.S.A.](#) 1991-1992

Temporary Lecturer, School of Mathematical Sciences, Queen Mary and Westfield College, University of London, London, U.K. 1990-1991.

Research Fellow, School of Mathematical Sciences, Queen Mary and Westfield College, University of London, London, U.K. 1987-1990.

SELECTED RECENT PUBLICATIONS:

Burd, A.B. and G.A. Jackson, 1997. Predicting particle coagulation and sedimentation rates for a pulsed input. *J. Geophys. Res.* **102**:10545-10562.

Mari, X and A. Burd, 1998, Seasonal size spectra of transparent exopolymeric particles (TEP) in a coastal sea and comparison with those predicted using coagulation theory, *Mar. Ecol. Prog. Ser.*, **163**:63-76.

Jackson, G. A. and A. B. Burd, 1998, Aggregation in the marine environment, *Env. Sci. Technol.*, **32**:2805-2814.

Burd, A.B., S. B. Moran and G. A. Jackson, 2000, A coupled adsorption-aggregation model of the POC/²³⁴Th ratio of marine particles, *Deep-Sea Research.* **47**:103-120.

Burd, A.B. and K.H. Dunton, 2001. Field verification of a light-driven model of biomass changes in the seagrass *Halodule wrightii*. *Mar. Ecol. Prog. Ser.* **209**:85-98.

Jackson, G.A. and A.B. Burd, 2002. A model for the distribution of particle flux in the mid-water column controlled by subsurface biotic interactions. *Deep-Sea Research II*, **49**:193-217.

Burd, A.B. and G.A. Jackson, 2002. Modeling steady state particle size spectra. *Env. Sci. Technol.* **36**:323-327.

Burd, A.B. and G.A. Jackson, 2002. An analysis of water column nutrient distributions in Florida Bay. *Estuaries* **25**:570-585.

Burd, A.B., G.A. Jackson, R.S. Lampitt and M. Follows, 2002. Shining a light on the ocean's twilight zone. *EOS* **83**:573.

SYNERGISTIC ACTIVITIES:

The development of a high school mathematics curriculum in South Africa; public education presentations resulting from projects on particle transport and effects on seagrasses in Texas; member of the Texas Seagrass Monitoring Taskforce, an interagency group for monitoring seagrass health utilizing public volunteers; organizer of special sessions at ASLO meeting 2001; co-organizer of JGOFS workshop on processes in the mesopelagic, March 2002; co-author of article on the mesopelagic for US JGOFS Newsletter (Oct 2002); development and maintenance of websites at Texas A&M University and University of Georgia.

COLLABORATORS DURING THE PREVIOUS 48 MONTHS:

Luis Cifuentes (Texas A&M University), Michael Dagg (LUMCON), Ken Dunton (University of Texas), Peter Eldridge (United States EPA), Debby Ianson (Texas A&M University), George Jackson (Texas A&M University), Robert Maffione (HOBILabs), Xavier Mari (Villefranche), Brad Moran (University of Rhode Island), John Morse (Texas A&M University), Peter Ortner (NOAA AOML), Tim Sellers (Texas A&M University), Debby Ianson (Texas A&M), Harlan Miller (University of Georgia), Richard Lampitt (Southampton Oceanography Centre), Mick Follows (MIT).

GRADUATE ADVISOR: John D. Barrow (Cambridge University)

POSTDOCTORAL SUPERVISORS:

Malcolm MacCallum (Queen Mary and Westfield College, University of London), Clifford Will (Washington University, St. Louis), Keith Thompson (Dalhousie University), George Jackson (Texas A&M University).

POSTDOCTORAL ADVISEES

Tim Sellers (2000-2001), Debby Ianson (2001-2002), Harlan Miller (2002 – present).

Wei-Jun Cai

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FAX: (706) 542 - 5888

A. PROFESSIONAL PREPARATION

1982 B.S., Marine Chemistry, Xiamen University, Xiamen, China.

1985 M.S., Physical Chemistry, Shandong College of Oceanography, Qingdao, China.

1992 Ph.D., Oceanography, Scripps Institution of Oceanography, University of California at San Diego, La Jolla, CA.

B. PROFESSIONAL EXPERIENCE

2000- Associate Professor (with tenure) of Marine Sciences. Department of Marine Sciences, The University of Georgia, Athens, GA.

1994-2000 Assistant Professor. The University of Georgia, Athens, GA.

1992-1994 Postdoctoral Fellowship and Postdoctoral Investigator, Woods Hole Oceanographic Institution.

1987-1992 Research Assistant, Scripps Institution of Oceanography, University of California, San Diego, CA.

1985-1987 Faculty member, Department of Chemistry, East China Normal University, Shanghai, China.

C-i. FIVE SIGNIFICANT PUBLICATIONS (* denotes Cai's NSF supported research)

Cai, W.-J. 2003. Riverine inorganic carbon flux and rate of biological uptake in the Mississippi River plume. *Geophysical Res. Lett.* 30(2) (Jan, 16 issue).

Cai, Wei-Jun, Yongchen Wang, James Krest and W.S. Moore. 2003. The geochemistry of dissolved inorganic carbon in a surficial groundwater aquifer in North Inlet, South Carolina and the carbon fluxes to the coastal ocean. *Geochim. Cosmochim. Acta.* 67(4):631-637.

Wang, Z.A., Y. Wang, and W.-J. Cai. 2002. A Long pathlength spectrophotometric $p\text{CO}_2$ sensor using a gas-permeable liquid-core waveguide. *Talanta* 57: 69-80.

* Cai, W.-J. and C.E. Reimers. 2000. Sensors for pH and $p\text{CO}_2$ measurements in seawater and sediment-water interface. In J. Buffle and Horvai (ed.) *In Situ Monitoring of Aquatic Systems: Chemical Analysis and Speciation*. IUPAC book series on Analytical and Physical Chemistry of Environmental Systems, vol 6.

* Wang, Z. A. *Biogeochemical changes of chemical signals in the Georgia "land-to-ocean continuum"*. Ph.D. Dissertation, The University of Georgia, Athens, GA (March 2003). <several manuscripts are or will be submitted based on this dissertation>

C-ii. FIVE OTHER PUBLICATIONS (* denotes Cai's NSF supported research)

* Cai, W.-J., P. Zhao, and Y. Wang. 2000. pH and $p\text{CO}_2$ microelectrodes measurement and diffusive behavior of carbon dioxide species in coastal marine sediments. *Mar. Chem.* 70:133-148.

* Cai W.-J., William J. Wiebe, Yongchen Wang and Joan E. Sheldon. 2000. Intertidal marsh as a source of dissolved inorganic carbon and a sink of nitrate in the Satilla River-estuarine complex in the southeastern U.S. *Limnol. & Oceanogr.* 45:1743-1752.

* Cai W.-J., L. R. Pomeroy, M. A. Moran and Y. Wang. 1999. An oxygen and carbon dioxide mass balance model of the estuarine/intertidal marsh complex of five rivers in the Southeastern U.S. *Limnol & Oceanogr.* 44:639-649.

* Cai W.-J. and Y. Wang 1998. The chemistry, fluxes and sources of carbon dioxide in the estuarine waters of the Satilla and Altamaha Rivers, Georgia. *Limnol. & Oceanogr.* 43:657-668.

* Cai, W.-J. and F.L. Sayles. 1996. Oxygen penetration depths and fluxes in marine sediments. *Marine Chemistry* 52:123-13.

D. SYNERGISTIC ACTIVITIES

Participated the department's outreach activities; helped with local school science fairs; serviced as an advisor for the Oconee County High School's National Ocean Science Bowl (NOSB) team (2002 and 2003). Served in NSF panel activities. Reviewed many proposals and journal manuscripts. Outstanding Reviewer of L&O (2003). Promoting international collaborations by serving as adjunct professor in Xiamen Univedity and Ocean University of China. Outstanding Young Sicientist Award from NSF of China (2003-2005).

E-i. COLLABORATORS (other than those listed in the above publications and UGA colleagues)

Anne Giblin, G. Luther, J. Cornwell, W. S. Moore, J. Krest, O. Zafiriou, Richard Zepp, H. Xie, . E. N. Powell, K. M. Parsons-Hubbard, S. E. Walker

E-ii. GRADUATE AND POST-GRADUATE ADVISORS

Clare E. Reimers; Scripps Institution of Oceanography, University of California, San Diego (now at Oregon State U.). F. L. Sayles and W. Martin, both at Woods Hole Oceanographic Institution.

E-iii. GRADUATE ADVISEES (as primary advisor)

Pingsan Zhao (1995-2000), Aleck Z. Wang (1998-2003), Frank F. Chen (2000-), Liqing Jiang (2002-)

E-iii. POST-GRADUATE ADVISEES

Yongchen Wang (1995-1998)

Christopher Bruce Craft

Associate Professor
School of Public and Environmental Affairs
Indiana University
Bloomington, IN 47405-2100

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FAX: (812) 855-7802
E-mail: ccraft@indiana.edu

Education:

B.A. Biology, University of North Carolina-Asheville
M.S. Ecology, University of Tennessee (Knoxville)
Ph.D. Soil Science, North Carolina State University
Research Associate, Botany Dept., North Carolina State University (1987-1989).
Research Associate, School of the Environment, Duke University (1989-1992)

Experience:

Associate Professor, School of Public and Environmental Affairs, Indiana University (August 15 1999 – present)
Assistant Scientist, J.W. Jones Ecological Research Center (Sept. 1 1997 – Aug. 15 1999)
Assistant Professor, Biology Dept., Univ. of Louisville (Jan. 1 1996 - August 31 1997)
Research Assistant Professor, School of the Environment, Duke University (1992-1996)

Relevant Publications:

Craft, C.B. and J.N. Sacco. 2003. Long-term succession of benthic infauna communities on constructed *Spartina alterniflora* marshes. *Marine Ecology – Progress Series*. In press.

Craft, C.B., J.P. Megonigal, S.W. Broome, J. Cornell, R. Freese, R.J. Stevenson, L. Zheng and J. Sacco. 2003. The pace of ecosystem development of constructed *Spartina alterniflora* marshes. *Ecological Applications*. In press.

Sturdevant, A., C.B. Craft and J.N. Sacco. 2003. Effects of impoundment on ecological functions of estuarine marshes along Woodbridge River, NY/NJ harbor. *Urban Ecosystems*. In press

Craft, C.B. and C. Chiang. 2002. Forms and amounts of soil nitrogen and phosphorus across a longleaf pine – depressional wetland landscape. *Soil Science Society of America Journal* 66:1713-1721.

Craft, C.B. and C. Chiang. 2002. Forms and amounts of soil nitrogen and phosphorus across a longleaf pine – depressional wetland landscape. *Soil Science Society of America Journal*. In press.

Craft, C.B., S.W. Broome and C.L. Campbell. 2002. Fifteen years of vegetation and soil

development following brackish-water marsh creation. *Restoration Ecology* 10:1-11.

Craft, C.B. 2001. Soil organic carbon, nitrogen and phosphorus as indicators of recovery in restored Spartina marshes. *Ecological Restoration* 19:87-91.

Craft, C.B. and W.P. Casey. 2000. Sediment and nutrient accumulation in floodplain and depressional freshwater wetlands of Georgia, USA. *Wetlands* 20:323-332.

Chiang, C., C.B. Craft, D. Rogers and C.J. Richardson. 2000. Effects of four years of N and P additions on Everglades plant communities. *Aquatic Botany* 68:61-78.

Craft, C.B., J.M. Reader, J.N. Sacco and S.W. Broome. 1999. Twenty five years of ecosystem development on constructed Spartina alterniflora (Loisel) marshes. *Ecological Applications* 9:1405-1419.

Craft, C.B. and C.J. Richardson. 1998. Recent and long-term organic soil accretion and nutrient accumulation in the Everglades. *Soil Science Society of America Journal* 62:834-843.

Daniela Di Iorio

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University Education

1994 Ph.D., Physics and Astronomy, University of Victoria, Victoria BC, Canada
1988 B.Sc., Honours Physics (CO-OP), Physics and Astronomy, University of Victoria, Victoria BC, Canada

Professional Experience

1999-present Assistant Professor, Dept of Marine Sciences,
University of Georgia, Athens, GA, USA
1995-1999 Scientist, Oceanography Dept., NATO SACLANTCEN, La Spezia (SP), Italy
1994-1995 Postdoctoral Research Fellow, Acoustical Oceanography Research Group,
Institute of Ocean Sciences, Sidney BC, Canada.
1988-1994 Graduate Research Fellow, Dept of Physics and Astronomy,
University of Victoria, Victoria, BC, Canada.
1991 Summer Research Assistant, Environmental Modelling Group,
NATO SACLANTCEN, La Spezia (SP), Italy.
1987 Summer Research Assistant, Institute of Ocean Sciences, Sidney BC, Canada.
1986 Summer Research Assistant, Institute of Ocean Sciences, Sidney BC, Canada.
1986 Junior Oceanographer, SeaConsult Ltd., St. John's NF, Canada.
1985 Summer Research Assistant,
Island Research and Development Corporation, (no longer exists).
1984 Junior Programmer, TRIUMF University of Victoria, Victoria BC, Canada.

Research and Educational Interests

Coastal ocean mixing and circulation
Two layer stratified shear flows
The application of high frequency acoustic systems for oceanographic measurement
Wave propagation in random media (acoustic scintillation)
Physical oceanography courses for freshmen, seniors and graduate students.

Awards and Scholarships

NSERC Industrial Research Fellowship (declined) 1994 CDN\$ 25,000.
CAA Annual Student Presentation Award 1992 500.
CAA Fessenden Student Award in Underwater Acoustics 1992 500.
BC Science Council GREAT Award 1989-92 38,700.
NSERC Graduate Research Fellowship 1990-91 32,300.
McDonnell Graduate Award in Physics 1988 2,000.

Daniela Di Iorio 2

Memberships

American Geophysical Union, Estuarine Research Federation, Acoustical Society of America (member of the Acoustical Oceanography Technical Committee)

Publications

Book Chapters

D. Di Iorio and A.E. Gargett, (2002). 'Studies of turbulent processes using Doppler and acoustical scintillation techniques', Chap.20 in **Sounds in the Seas: Introduction to Acoustical Oceanography**, editor: H. Medwin, Cambridge University Press, Cambridge UK. (in press).

Refereed Journals

D. Di Iorio and A.D. Barton, 'Path averaged ocean measurements in the deep, stratified tidal channel of Hood Canal using acoustical scintillation'. In revision for *J. Geophys. Res.*

D. Di Iorio, O. Bergem and N. Pace, 'Effects of the atmosphere and sea-surface waves on current and temperature/salinity variations in a shallow water environment'. (in revision for *Estuarine Coastal Shelf Sci.*).

D. Di Iorio and K. Kang, (2003). 'Some physical factors that may affect turbulent mixing in Altamaha Sound, Georgia', *Proceedings of the 2003 Georgia Water Resources Conference* (in press).

E. Ozsoy, D. Di Iorio, M.C. Gregg and J.O. Backhaus, (2001). 'Mixing in the Bosphorus Strait and the Black Sea continental shelf: Observations and a model of the dense water outflow', *J. Mar. Sys. Special Issue: Ventilation of the Black Sea Anoxic Waters* **31**:99-135.

D. Di Iorio and H. Yuce, (1999). 'Observations of Mediterranean flow into the Black Sea', *J. Geophys. Res.*, **102**:3091-3108.

D. Di Iorio and D.M. Farmer, (1998). 'Separation of current and sound speed in the effective refractive index for a turbulent environment using reciprocal acoustic transmission', *J. Acoust. Soc. Am.*, **103**:321-329.

D. Di Iorio and D.M. Farmer, (1996). 'Two-dimensional angle of arrival fluctuations', *J. Acoust. Soc. Am.*, **100**:814-824.

D. Di Iorio and D.M. Farmer, (1994). 'Path averaged turbulent dissipation measurements using high frequency acoustical scintillation analysis', *J. Acoust. Soc. Am.*, **96**:1056-1069.

Students Advised

Graduated

Alan Barton, MSc May 2002. (currently at Oregon State University for a PhD)

Daimar Tamarach, Undergraduate Interdisciplinary Studies, honours thesis, May 2003.

At present KiRyong Kang, PhD

Lisa A. Donovan

Current Position and Contact Information

Associate Professor, Department of Plant Biology, University of Georgia, 2502 Miller Plant Science, Athens, GA 30602-7271 USA (706)-542-2969; donovan@botany.uga.edu

Education and Previous Academic Position

1995-2001 Assistant Professor, Department of Botany, University of Georgia
1992-1994 Postdoctoral Associate, Department of Land, Air and Water Resources, University of California, Davis, CA
1992 Ph.D. Biology, University of Utah, Salt Lake City, UT
1982 M.S. Marine Studies, University of Delaware, College of Marine Studies, Lewes DE
1980 B.S. Biology, Salisbury State University, Salisbury, MD

Selected Publication:

Johnston, J.A., M.L. Arnold, and L.A. Donovan. In Press. High hybrid fitness at seed and seedling life history stages in Louisiana Irises. Journal of Ecology.
Donovan LA, JH Richards, MJ Linton. 2003. Magnitude and mechanisms of disequilibrium between predawn plant and soil water potentials in desert shrubs. Ecology 84: 463-470.
Snyder KA, JH Richards, LA Donovan. 2003. Nighttime conductance in C3 and C4 species: do plants lose water at night? Journal of Experimental Botany 54:861-865.
Rosenthal DM, AE Schwarzbach, LA Donovan, O Raymond, LH Rieseberg. 2002. Phenotypic differentiation between three ancient hybrid taxa and their parental species. International of Journal Plant Science 163:387-398.
Espeleta JF, LA Donovan. 2002. Fine root demography and morphology in response to soil resource availability among xeric and mesic sandhill tree species. Functional Ecology 16:113-121.
Donovan LA, MJ Linton, JH Richards. 2001. Predawn plant water potential does not necessarily equilibrate with soil water potential under well-watered conditions. Oecologia 129:328-335.
Johnston JA, RA Wesselingh, AC Bouck, LA Donovan, ML Arnold. 2001. Intimately linked or hardly speaking? The relationship between genotypic variation and environmental gradients in a Louisiana Iris hybrid swarm. Molecular Ecology 10:673-681.
Schwarzbach AE, LA Donovan, LH Rieseberg. 2001. Transgressive character expression in a hybrid sunflower species. American Journal of Botany 88:270-277.
Donovan LA, JH Richards. 2000. Juvenile shrubs show differences in stress tolerance, but no competition or facilitation, along a stress gradient. Journal of Ecology 88:1-16.
Donovan LA, DG Grise, JB West, RA Pappert, NN Alder, JH Richards. 1999. Predawn disequilibrium between plant and soil water potentials in two desert shrubs. Oecologia 120:209-217.

Synergistic Activities

- Organized symposium at the 2000 Ecological Society of America Annual Meeting: "The water limitation: issues in plant, community and ecosystem water use"
- Directed ESA Physiological Ecology Section Awards for Student Presentation Awards (2000 and 2001)
- PI for cross-disciplinary pre-proposal for IGERT training grant, in review (20 training faculty)
- Participant in the University of Georgia Summer Undergraduate Research Program designed to increase recruitment and retention of minorities in the biological sciences.

-Employer for 15 undergraduate students and research mentor (independent research for credit) for 7 undergraduate students during last 8 years, (10 women, 12 men, 3 from ethnic minorities). One woman, the NSF-REU student on the former grant, is currently a graduate student at UCD on an NSF Graduate Fellowship.

Collaborators, co-authors

Alder, Nathan (U. California, Davis)
Arnold, Mike (UGA)
Bouck, Amy (UGA)
Dodd, Geraldine (Emory U.)
Grise, David (S.W. Texas State U.)
Hamrick, Jim (UGA)
Linton, Matthew (U. Utah)
Hubbell, Steve (UGA)
Malmberg, Russell (UGA)
McLeod, Kenneth (Savannah River Ecol Lab)

Pappert, Rebecca (UGA)
Paterson, Andrew (UGA)
Richards, James H. (U. California, Davis)
Rieseberg, Loren (Indiana U.)
Schaber, Elizabeth Joy (U. California, Davis)
Schwarzbach, Andrea (Kent State U.)
Sperry, John (U. Utah)
Snyder, Keirith (USDA ARS, Las Cruces NM)
Wesselingh, Renata (UGA)
Wessler, Susan (UGA)

Graduate and Postgrad Advisees: 10 students, 4 postdocs (7 women, 7 men, 3 from ethnic minorities)

Addington, Rob (UGA, MS 2001)
Dodd, Geraldine (UGA, MS 1998)
Espeleta, Javier (UGA, PhD 2002)
Grise, David (UGA, PhD 1997)
Johnston, Jill (UGA, PhD 2002)
Linton, Matthew (former postdoc)
Ludwig, Fulco (current postdoc)

Pappert, Rebecca (UGA, MS 1998)
Richards, Christina (UGA, current student)
Rosenthal, David (UGA, current student)
Sanchez, Maria (UGA, current student)
Schwarzbach, Andrea (former visiting postdoc)
Snyder, Keirith (former postdoc)
West, Jason (UGA, PhD 2002)

Graduate and Postdoctoral Advisors

Richards, James H. (U. California, Davis), Postdoctoral Advisor
Ehleringer, James R. (U. Utah), Ph.D. Advisor
Gallagher, John L. (U. Delaware) M.S. Advisor

Robert E. Hodson

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e-mail: rhodson@arches.uga.edu

Education

B.S. 1968, The Ohio State University, Columbus (Zoology)
M.S. 1972, Florida State University, Tallahassee (Biological Oceanography)
Ph.D. 1977, Scripps Institution of Oceanography, University of California, San Diego
(Marine Biology)

Professional Experience

Adjunct Professor of Oceanography, Skidaway Institute of Oceanography, Savannah,
Georgia, 1977-present
Co-Director, Center for Environmental Biotechnology, Institute of Ecology, 1987-present
Professor, University System of Georgia Independent Study Program, 1991-present
Professor of Marine Sciences, Microbiology, and Ecology, The University of Georgia, 1993-
present
Head, Department of Marine Sciences, 1996-2001
Director, School of Marine Programs, 1996-2001

Five publications most relevant to the proposed research

Hodson, R. E. and M. A. Moran. 1995. Comparative biodegradation kinetics of simple and complex dissolved organic carbon in aquatic ecosystems. pp. 47-64. *In*: R.G. Zepp and C. Sonntag. Role of Nonliving Organic Matter in the Earth's Carbon Cycle.

Hodson, R.E., W.A. Dustman, R.P. Garg, and M.A. Moran. 1995. In situ PCR for visualization of microscale distribution of specific genes and gene products in prokaryotic communities. *Applied and Environmental Microbiology*. 61:4074-4082.

Chen, F., J.M. Gonzalez, W.A. Dustman, M.A. Moran, and R.E. Hodson. 1997. *In situ* reverse transcription: An approach to characterize genetic diversity and activity of prokaryotes. *App. and Environ. Micro.* 63: 4907-4913.

Gonzalez, J.M., F. Mayer, M.A. Moran, R.E. Hodson, and W.B. Whitman. 1997. *Sagittula stellata* gen. nov., sp. nov., a Lignin-Transforming Bacterium from a Coastal Environment. *Int. Journal of Sys. Bacteriol.* 47(3): 773-780.

Acid-base properties of dissolved organic matter in the estuarine waters of Georgia, USA. W-J Cai, Y. Wang, and R.E. Hodson. 1998. *Geochim. et Cosmo. Arts.* 62(3): 473-483.

Other significant publications

Gonzalez, J., F. Mayer, M.A. Moran, R.E. Hodson and W.B. Whitman. 1997. *Microbulbifer hydrolyticus* gen. nov., sp. nov., and *Marinobacterium georgiense* gen., nov., sp. nov., Two Marine Bacteria from a Lignin-Rich Pulp Mill Waste Enrichment Community. *International Journal of Systematic Bacteriology*. 47(2): 369-376.

Bano, N., M.A. Moran, R.E. Hodson. Photochemical formation of labile organic matter from two components of dissolved organic carbon in a freshwater wetland. 1998. *Aquatic Microbial Ecology*. 16: 95-102.

Terrestrial inputs of organic matter to coastal ecosystems: An intercomparison of chemical characteristics and bioavailability. C.S. Hopkinson, I. Buffam, J. Hobbie, J. Vallino, M. Perdue, B. Eversmeyer, F. Prahl, J. Covert, R. Hodson, M.A. Moran, E. Smith, J. Baross, B. Crump, S. Findlay, and K. Foreman. 1998. *Biogeochemistry*. 43: 211-234.

Diagnostic/Feasibility Study of Lake Sidney Lanier, Georgia. J.E. Kundell, K.J. Hatcher, M. Alber, A. Amirtharajah, K. Baer, B. Brouckaert, A. Buchan, M.A. Callaham, R. Hodson, S. Holmbeck-Pelham, T. Laidlaw, D.S. Leigh, J.L. McCrary, A.E. Miller, T. Rasmussem, M. T. Richman, and S. Thompson. 1998. Prepared for the Georgia Environmental Protection Division.

Gonzalez, J.M., R.E. Hodson and M.A. Moran. Bacterial populations in replicate marine enrichment cultures: Assessing variability in abundance using 16S rRNA-based probes. 1999. *Hydrobiologia*. 401: 69-75.

Graduate Advisors

Dr. Paul LaRock (M.S.)

Dr. Osmund Holm-Hansen (Ph.D.)

Current graduate and post-graduate advisees

Graduate:

Mou Xiaozhen Ph.D. Student, Marine Sciences

Post-graduate:

Dr. David Bachoon

Dr. Wendy Dustman

Dr. James Sullivan

Dr. Eric Wommack

Dr. Jingrang Lu

James T. Hollibaugh

EDUCATION

B.S. Biochemistry (with High Honor); University of California; Davis, California; 1971
Ph.D. Oceanography; Dalhousie University; Halifax, Nova Scotia, Canada; 1977

EXPERIENCE

Since September 2002. Director and Head, School of Marine Programs, Department of Marine Sciences - University of Georgia, Athens, Georgia.
February 2001-September 2002: Acting Director and Head, School of Marine Programs and Department of Marine Sciences - University of Georgia, Athens, Georgia.
1997-2001: Associate Director, School of Marine Programs and Professor, Department of Marine Sciences - University of Georgia, Athens, Georgia.
1983-1997: Assistant, Associate and Senior Research Scientist; Lecturer - Center for Environmental Studies; San Francisco State University, Tiburon, California.
1990-1995: Acting Director - Center for Environmental Studies; San Francisco State University; Tiburon, California.
1980-1983: Senior Scientist, Oceanographer - LAVALIN Inc; Halifax, Nova Scotia and Vancouver, British Columbia, Canada.
1977-1980: Postgraduate Research Biologist V and VI - Scripps Institution of Oceanography, Institute of Marine Resources; University Of California, San Diego; La Jolla, California; Drs W.H. Thomas and F. Azam, supervisors.

SYNERGISTIC ACTIVITIES

Associate Editor, *Limnology and Oceanography*, Sept. 1991 to Oct. 1994.
Editorial Board, *Aquatic Microbial Ecology*, Sept. 1992 to May 1996
Editor, *Aquatic Microbial Ecology*, May 1996 to November 2002
Associate Editor, *Estuaries*, January 1997 to September 2000
Participant in various NSF, NOAA, NAS/NAE panels and workshops
Mentor at local elementary and high schools

PUBLICATIONS

Five Relevant

Hollibaugh, J.T., P.S. Wong, N. Bano, S.K. Pak, E.M. Prager and C. Orrego. 2001.
Stratification of microbial assemblages in Mono Lake, California, and response to a mixing event. *Hydrobiologia* 466: 45-60.
Oremland, R.S., S.E. Hoefft, J.M. Santini, N. Bano, R.A. Hollibaugh and J.T. Hollibaugh. 2002. Anaerobic oxidation of arsenite in Mono Lake water and by a facultative chemoautotroph, strain MLHE-1. *Applied and Environmental Microbiology* 68: 4795-4802.

- Hoefl S.E., F. Lucas, J.T. Hollibaugh and R.S. Oremland. 2002. Characterization of bacterial arsenate reduction in the anoxic bottom waters of Mono Lake, California. *Geomicrobiology Journal* 19: 1-19.
- Humayoun, S.B, N. Bano and J.T. Hollibaugh. 2003. Depth distribution of microbial diversity in Mono Lake, a meromictic soda lake in California. *Applied and Environmental Microbiology* 69: 1030-1042.
- Steward, G., J.P. Zehr, R. Jellison, J.P. Montoya and J.T. Hollibaugh. In press. Vertical distribution of nitrogen-fixing phylotypes in a meromictic hypersaline lake. *Microbial Ecology*.

Five Others

- Hollibaugh, J.T. 1994. Relationship between thymidine metabolism, bacterioplankton community metabolic capabilities and sources of organic matter used for growth. *Microbial Ecology* 28: 117-131.
- Murray, A.E., J.T. Hollibaugh and C. Orrego. 1996. Comparison of the phylogenetic compositions of bacterioplankton in two California estuaries by denaturing gradient gel electrophoresis of 16S rRNA gene fragments. *Applied and Environmental Microbiology* 62: 2676-2680.
- Joye, S.B. and J.T. Hollibaugh. 1995. Sulfide inhibition of nitrification influences nitrogen regeneration in sediments. *Science* 270: 623-625.
- Bano, N. and J.T. Hollibaugh. 2002. Phylogenetic composition of bacterioplankton assemblages from the Arctic Ocean. *Applied and Environmental Microbiology* 68: 505-518.
- Hollibaugh, J.T., N. Bano and H.W. Ducklow. 2002. A novel 16s rRNA gene sequence with affinity to *Nitrosospira*-like ammonia-oxidizing bacteria is widespread in polar oceans. *Applied and Environmental Microbiology* 68: 1478-1484.

COLLABORATORS AND OTHER COI

S.V. Smith, University of Hawaii; J.A. Fuhrman, University of Southern California; Deborah Bronk, College of William and Mary; faculty of the Biology Department and Tiburon Center, San Francisco State University; faculty of the Skidaway Institute of Oceanography, faculty of the Department of Ocean Sciences, UC Santa Cruz.

Graduate Advisors: Dr. J.S. Craigie, National Research Council of Canada, Halifax NS and Drs. R.O Fournier, G.A. Riley and P.J. Wangersky, Department of Oceanography, Dalhousie University, Halifax NS.

Post-graduate Advisor: Dr. W.H. Thomas and Dr. F. Azam, both at Scripps Institution of Oceanography, University of California San Diego.

Supervisor for: Ms. Inge Werner (M.S.); Ms. Alison Murray (M.A.); Mr. Michael Murrell (Ph.D.); Ms. Victoria Ferrari (M.A.); Mr. Gary LeCleir (Ph.D.); Ms Erin Biers (M.S.); Mr. Bruno Giri (Ph.D.); Ms Jennifer Fisher (Ph.D.), Mr. Charles Budinoff (Ph.D.), Mr. Matthew First (Ph.D.).

Committee member for: Ms. Sue Vink (Ph.D.); Ms. Samantha Joye (Ph.D.); Ms. Inge Werner (Ph.D.); Ms. Kristin Nutile (M.S.), Ms. Alison Murray (Ph.D.), Ms Françoise Lucas (Ph.D.); Mr. Joe Covert (Ph.D.); Ms Alison Buchan (Ph.D.); Mr. Chris Burbage (Ph.D.); Ms Deidre Gibson (Ph.D.). Mr Dirk Koopmans (M.S.); Mr Andy Allen (Ph.D.), Justine Lyons (M.S.), Lisa Hodges (Ph.D.); Rubao Ji (Ph.D.); Yong Gin Lee (Ph.D.),

Microbiology); and Aleck Wang (Ph.D.), Mr. Nathaniel Weston, (Ph.D.), Mr. William Porubsky (Ph.D.), Ms Amanda Wrona (Ph.D.).

Postdoctoral research associates: Dr. Randolph Chambers; Dr. James Fourqurean; Dr. Samantha Joye; Dr. Francoise Lucas; Dr. Ramunas Stepanauskas

Research Associates: Dr. Nasreen Bano; Dr. Shaheen Humayoun

Samantha B. Joye

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A. PROFESSIONAL PREPARATION

1987 B. Sc., Biology, University of North Carolina, Chapel Hill, NC

1989 M. Sc., Marine Sciences (Geochemistry), University of North Carolina, Chapel Hill, NC

1993 Ph.D., Marine Sciences (Biogeochemistry), University of North Carolina, Chapel Hill, NC

1994 NSF Chataqua Short Course in Molecular Biology, San Francisco State Univ.

B. PROFESSIONAL EXPERIENCE

2002-2003 Visiting Professor, Max Planck Institute for marine Microbiology, Bremen, Germany

2001- Associate Professor of Marine Sciences, The University of Georgia, Athens, GA

1997-2001 Assistant Professor of Marine Sciences, The University of Georgia, Athens, GA

1995-1997 Assistant Professor of Oceanography, Texas A & M University, College Station TX

Associate Scientist, Center for Environmental Studies, Cal State-SF, Tiburon CA

C-i. FIVE SIGNIFICANT PUBLICATIONS (*NSF supported research)

***Joye, S. B.**, A. Boetius, B. N. Orcutt, H. Schulz, M. Erickson, J. Montoya, and S. K. Lugo, 2003. Sediment signatures of the anaerobic oxidation of methane and sulfate reduction near Gulf of Mexico cold seeps. *Chemical Geology* (in press).

***Joye, S. B.**, T. Connell, R. Jellison, L. G. Miller and R. S. Oremland. 1999. Oxidation of ammonia and methane in an alkaline, saline lake. *Limnol. Oceanogr.* 44: 178-188.

*Sassen, R., I. R. MacDonald, N. L. Guinasso, **S. B. Joye**, A. G. Requejo, S. T. Sweet, J. Alcalá-Herrera, D. A. DeFrietas, and D. R. Schink. 1998. Bacterial methane oxidation in sea-floor gas hydrate: Significance to life in extreme environments. *Geology* 26: 851-854.

***Joye, S. B.**, and J. T. Hollibaugh. 1995. Sulfide inhibition of nitrification influences nitrogen regeneration in sediments. *Science* 270: 623-625.

González, J. M., R. P. Kiene, **S. B. Joye**, D. Y. Sorokin, and M. A. Moran. 2002. Oxidation of organic and inorganic sulfur compounds by aerobic heterotrophic marine bacteria. In: Singh, V. P. (Ed.) *Biotransformations: Bioremediation Technology for Health and Environmental Protection*. Elsevier Science Pub., Amsterdam, the Netherlands, pp. 291-310.

C-ii. FIVE OTHER PUBLICATIONS (*NSF supported research)

*Carini, S. A., B. N. Orcutt, and **S. B. Joye**, 2003. Interactions between nitrification and methane oxidation in estuarine sediments. *Geomicrobiology Journal* (in press).

MacAvoy, S. E., S. A. Macko and **S. B. Joye**, 2002. Fatty acid carbon isotope signatures in chemosynthetic mussels and tube worms from Gulf of Mexico hydrocarbon seep communities. *Chemical Geology*, 185: 1-8.

Sassen, R., **S. B. Joye**, S. T. Sweet, D. A. Defrietas, A. V. Milkov, and I. R. MacDonald, 1999. Thermogenic gas hydrates and hydrocarbon gases in complex chemosynthetic communities, Gulf of Mexico, Continental Slope. *Organic Geochem.* 30: 485-497.

*Orcutt, B. N., I. R. MacDonald, A. Boetius, V. Samarkin, S. Lugo, and **S. B. Joye** (in review) Life at the edge of ice: methane and sulfur cycling in methane hydrates. *Chemical Geology*

Arvidson, R., J. W. Morse and **S. B. Joye** (in review) Sedimentary Biogeochemistry of Chemosynthetic Cold Seep Communities, Gulf of Mexico, USA, *Marine Chemistry*.

D. SYNERGISTIC ACTIVITIES

Member-at-Large of the Board of Directors for the American Society of Limnology and Oceanography (2000 - 2003).

Co-chair of the organizing committee for the American Society of Limnology and Oceanography's Aquatic Sciences Meeting in Salt Lake City (February 2003)

Co-chair of the organizing committee for the National Academy of Science's Japan-America "Frontiers of Science" symposium (2000).

Guest Editor of *Geomicrobiology Journal*, "Molecular Biogeochemistry" issue (2003)

Associate Editor, *Estuaries* (2001-2004) and *Biogeochemistry* (2003-2008)

E. CONFLICTS OF INTERESTS

Collaborators:

Robert Jellison, UC-Santa Barbara
Doug Nelson, UC-Davis
Heide Schulz, University of Hannover
Bess Ward, Princeton

Carla Koretsky, W Michigan U
Carolyn Ruppel, Georgia Tech
Patricia Sobecky, Georgia Tech
Jon Zehr, UC-Santa Cruz

Graduate and Post-Graduate Advisors:

Graduate Advisor: H. W. Paerl, University of North Carolina at Chapel Hill, Chapel Hill, NC

Post-graduate Advisor: J. T. Hollibaugh, University of Georgia, Athens, GA

Graduate Advisees (in the Joye Lab):

Soonmo An, Ph. D. May 1999
Steve Carini, Ph. D., in progress
Beth Orcutt, Ph. D., in progress
Liliana Velasquez, M. Sc., in progress

S. Escorcía, M.Sc. 2000
Rosalynn Lee, Ph. D., in progress
Bill Porubsky, Ph. D., in progress
Nathaniel Weston, Ph. D., in progress

Post-Graduate Advisees:

Steve MacAvoy, September 2000-2001

Vladimir Samarkin, January 2002-

Mary Ann Moran

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Athens, Georgia 30602-3636 e-mail: mmoran@arches.uga.edu

PROFESSIONAL PREPARATION

Colgate University	Biology	B.S. 1977
Cornell University	Natural Resources	M.S. 1982
University of Georgia	Ecology	Ph.D. 1987

APPOINTMENTS

Professor. 2003-present. Dept. Marine Sciences, University of Georgia
Associate Professor. 1998-2003. Dept. Marine Sciences, University of Georgia
Assistant Professor. 1993-1998. Dept. Marine Sciences, University of Georgia
Assistant Research Scientist. 1989-1993. Dept. Microbiology, University of Georgia
Postdoctoral Associate. 1988-1989. Dept. Microbiology, University of Georgia
Research Assistant. 1982-1983. Ecosystems Research Center, Cornell University

SELECTED PUBLICATIONS (from 58 refereed publications)

González, J. M., J. S. Covert, W. B. Whitman, J. Henricksen, F. Mayer, B. Scharf, R. Schmitt, A. Buchan, J. A. Fughrman, R. P. Kiene, and M. A. Moran. 2003. *Silicibacter pomeroyi* sp. nov. and *Roseovarius nubinhibens* sp. nov., DMSP demethylating bacteria from marine environments. *Int. J. Syst. Evol. Microbiol.*, in press.

Moran, M. A., J. M. González, and R. P. Kiene. 2003. Linking a bacterial taxon to sulfur cycling in the sea: studies of the marine *Roseobacter* group. *Geomicrobiol. J.*, in press.

Lyons Moreta, J. I., S. Y. Newell, A. Buchan, and M. A. Moran. Diversity of ascomycete laccase gene sequences in a southeastern U.S. salt marsh. 2003. *Microb. Ecol.*, in press.

Stepanauskas, R., M. A. Moran, B. Bergamaschi, and J. T. Hollibaugh. 2003. Covariance of bacterioplankton composition and water chemistry in a temperate delta estuary. *Aquat. Microb. Ecol.* 31: 85-98.

Miller, W. L., M. A. Moran, W. M. Sheldon, R. G. Zepp, and S. Opsahl. 2002. Determination of apparent quantum yield spectra for the formation of biologically labile photoproducts. *Limnol. Oceanogr.* 47: 343-352.

Buchan, A., E. L. Neidle, and M. A. Moran. 2001. Diversity of ring-cleaving dioxygenase gene *pcaH* in a salt marsh bacterial community. *Appl. Environ. Microbiol.* 67:5801-5809.

Covert, J. S. and M. A. Moran. 2001. Molecular characterization of estuarine bacterial communities that use high- and low-molecular weight fractions of dissolved organic carbon. *Aquat. Microb. Ecol.* 25:127-139.

Buchan, A., S. Y. Newell, J. I. L. Moreta, and M. A. Moran. 2001. Analysis of internal transcribed spacer (ITS) regions of rRNA genes in fungal communities of a southeastern U.S. salt marsh. *Microb. Ecol.* 43: 329-340.

González, J. M., R. Simó, R. Massana, J. S. Covert, E. O. Casamayor, C. Pedrós-Alió, and M. A. Moran. 2000. Bacterial community structure associated with a dimethylsulfoniopropionate-producing North Atlantic algal bloom. *Appl. Environ. Microbiol.* 66:4237-4246.

González, J. M., R. P. Kiene, and M. A. Moran. 1999. Transformation of sulfur by an abundant lineage of marine bacteria in the α -subclass of the Proteobacteria. *Appl. Environ. Microbiol.* 65:3810-3819.

SYNERGISTIC ACTIVITIES

Co-Chair. NSF Microbial Observatory/LEnEn PI Workshop, 2002.

Chair, Microbial Ecology Section, American Society for Microbiology, 2000 - 2002.

Associate Editor, *Limnology and Oceanography*, 1998 - 2001.

Editorial Board Member, *Applied and Environmental Microbiology*, 1998-2001.

CURRENT GRANTS

2000. National Science Foundation. *ILTER - Georgia Land/Ocean Margin Ecosystem*. Co-Principal Investigator (with J. T. Hollibaugh, S. Pennings, and 16 other Co-PIs). \$4,180,499.

2000. National Science Foundation. *Prokaryotic Diversity of a Salt Marsh/Estuarine Complex at the University of Georgia Marine Institute, Sapelo Island*. Principal Investigator (with W. B. Whitman, R. E. Hodson, and F. Chen). \$1,002,182.

2001. National Science Foundation. *A Genomic Approach to Sulfur Biotransformations in the Ocean: The Genome Sequence of a Marine Roseobacter*. Principal Investigator (with R. Kiene, W. Whitman, N. Ward, and J. Heidelberg). \$882,593.

2003. Office of Naval Research. *Interactions of Nitrogen and Nonliving Organic Matter in the Formation and Decomposition of CDOM in Coastal Marine Environments*. Principal Investigator. \$225,539.

Steven Y. Newell

Professional Preparation.

<u>Institution</u>	<u>Major</u>	<u>Degree & Year</u>
University of Miami	Biology/Chemistry	BSc, 1967 (MCL)
University of Miami Institute of Marine Sciences	Biological Oceanography	MSc, 1969
University of Miami School of Marine & Atmos. Sci. (www.arches.uga.edu/~newell/images/fgwsawar.jpg)	Biological Oceanography	PhD, 1974 (Walton-Smith Award)
University of Miami School of Marine & Atmos. Sci.	Marine Mycology	Post-doc, 1972-1975

Appointments

2000 to present B Acting Director, Marine Institute, University of Georgia, Sapelo Island, GA
1992 to present B Adjunct Professor, Department of Marine Sciences, University of Georgia, Athens, GA
1987 to present B Senior Research Scientist, Marine Institute, University of Georgia, Sapelo Island, GA
1982 to 1987 B Associate Research Scientist, Marine Institute, University of Georgia, Sapelo Island, GA, and Adjunct Associate Professor, Georgia State University, Atlanta, GA
1981 to 1982 B Assistant Marine Scientist, Marine Institute, University of Georgia, Sapelo Island, GA, and Adjunct Assistant Professor, Department of Microbiology, Univ. of Georgia, Athens, GA
1979 to 1980 B Research Associate, Marine Institute, University of Georgia, Sapelo Island, GA

Publications

Five Most Relevant

Newell, S.Y. 2003. Fungal content and activities in standing-decaying leaf blades of plants of the Georgia Coastal Ecosystems research area. *Aquat. Microb. Ecol.*, in press.
Buchan, A., S.Y. Newell, J.I.L. Moreta, and M.A. Moran. 2002. Analysis of internal transcribed spacer (ITS) regions of rRNA genes in fungal communities of a southeastern U.S. saltmarsh. *Microb. Ecol.* **43**:329-340.
Gessner, M.O. and S.Y. Newell. 2002. Biomass, growth rate, and production of filamentous fungi in plant litter, pp. 390-408. In C.J. Hurst, M. McInerney, L. Stetzenbach, G. Knudsen and M. Walter (eds.), *Manual of environmental microbiology*. Second edition. ASM Press, Washington, DC.
Newell, S.Y. 2001. Multiyear patterns of fungal-biomass dynamics and fungal productivity within naturally decaying smooth-cordgrass shoots. *Limnol. Oceanogr.* **46**:573-583.

Sassen, R., **S. B. Joye**, S. T. Sweet, D. A. Defrietas, A. V. Milkov, and I. R. MacDonald, 1999. Thermogenic gas hydrates and hydrocarbon gases in complex chemosynthetic communities, Gulf of Mexico, Continental Slope. *Organic Geochem.* 30: 485-497.

*Orcutt, B. N., I. R. MacDonald, A. Boetius, V. Samarkin, S. Lugo, and **S. B. Joye** (in review) Life at the edge of ice: methane and sulfur cycling in methane hydrates. *Chemical Geology*

Arvidson, R., J. W. Morse and **S. B. Joye** (in review) Sedimentary Biogeochemistry of Chemosynthetic Cold Seep Communities, Gulf of Mexico, USA, *Marine Chemistry*.

D. SYNERGISTIC ACTIVITIES

Member-at-Large of the Board of Directors for the American Society of Limnology and Oceanography (2000 - 2003).

Co-chair of the organizing committee for the American Society of Limnology and Oceanography's Aquatic Sciences Meeting in Salt Lake City (February 2003)

Co-chair of the organizing committee for the National Academy of Science's Japan-America "Frontiers of Science" symposium (2000).

Guest Editor of *Geomicrobiology Journal*, "Molecular Biogeochemistry" issue (2003)

Associate Editor, *Estuaries* (2001-2004) and *Biogeochemistry* (2003-2008)

E. CONFLICTS OF INTERESTS

Collaborators:

Robert Jellison, UC-Santa Barbara
Doug Nelson, UC-Davis
Heide Schulz, University of Hannover
Bess Ward, Princeton

Carla Koretsky, W Michigan U
Carolyn Ruppel, Georgia Tech
Patricia Sobecky, Georgia Tech
Jon Zehr, UC-Santa Cruz

Graduate and Post-Graduate Advisors:

Graduate Advisor: H. W. Paerl, University of North Carolina at Chapel Hill, Chapel Hill, NC
Post-graduate Advisor: J. T. Hollibaugh, University of Georgia, Athens, GA

Graduate Advisees (in the Joye Lab):

Soonmo An, Ph. D. May 1999
Steve Carini, Ph. D., in progress
Beth Orcutt, Ph. D., in progress
Liliana Velasquez, M. Sc., in progress

S. Escorcía, M.Sc. 2000
Rosalynn Lee, Ph. D., in progress
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Post-Graduate Advisees:

Steve MacAvoy, September 2000-2001

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Sc.B. in Aquatic Biology, Brown University, Providence, RI (1984)
Ph.D. in Ecology, University of California, Santa Barbara, CA (1990)

Professional Experience:

2002-present: Assistant Professor, Dept. of Biology and Biochemistry, Univ. of Houston.
2000-2001: Associate Research Professor, Univ. of GA Marine Institute.
1994-2000: Assistant Research Professor, Univ. of GA Marine Institute.
1990-1993: Post-doctoral Research Associate, University of Guam.

Current Grants:

"LTER--Georgia land/ocean margin ecosystem". National Science Foundation. Tim Hollibaugh
PI, Steve Pennings Co-PI. \$4,200,000. 2000-2006.
"Latitudinal gradients in plant palatability in Atlantic coast salt marshes." National Science
Foundation. \$314,125. 2002-2004.

Selected Publications:

Siska, E. L., S. C. Pennings, T. L. Buck and M. D. Hanisak. 2002. Latitudinal variation in
palatability of saltmarsh plants: which traits are responsible? **Ecology** 83:3369-3381.
Pennings, S. C., E. L. Siska and M. D. Bertness. 2001. Latitudinal differences in plant
palatability in Atlantic coast salt marshes. **Ecology** 82:1344-1359.
Pennings, S. C. and M. D. Bertness. 2001. Salt marsh communities. In, M. D. Bertness, S. D.
Gaines and M. E. Hay (editors), **Marine Community Ecology**, Sinauer Associates.
Pennings, S. C. and D. J. Moore. 2001. Zonation of shrubs in western Atlantic salt marshes.
Oecologia 126:587-594.
Callaway, R. M. and S. C. Pennings. 2000. Facilitation may buffer competitive effects: indirect
and diffuse interactions among salt marsh plants. **American Naturalist** 156:416-424.
Pennings, S. C. and R. M. Callaway. 2000. The advantages of clonal integration under different
ecological conditions: a community-wide test. **Ecology** 81: 709-716.
Pennings, S. C., T. H. Carefoot, E. L. Siska, M. E. Chase and T. A. Page. 1998. Feeding
preferences of a generalist salt marsh crab: relative importance of multiple plant traits.
Ecology 79:1968-1979.
Pennings, S. C. and R. M. Callaway. 1996. Impact of a parasitic plant on the structure and
dynamics of salt marsh vegetation. **Ecology** 77:1410-1419.

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Education

1986 B.S., Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology (MIT)
1986 M.S. (coterminal with B.S.), Earth and Planetary Sciences, MIT
1992 Ph.D., [continental] Geophysics and Geology (dual field specification), MIT

Professional Experience

1/1/94- Assistant Professor of Geophysics, Georgia Tech
Summers 95-97 Visiting Assistant Professor, Geophysics Dept., Stanford University (courtesy)
1993 Postdoctoral investigator, Woods Hole Oceanographic Institution
1992 Postdoctoral scholar (fellowship), Woods Hole Oceanographic Institution
1990 Teaching assistant, MIT
1986-91 Research assistant, Dept. of Earth, Atmospheric, and Planetary Sciences, MIT
1983-85 Undergraduate research assistant, Civil Engineering & Dept. and Earth and Atmospheric Sciences Dept., MIT

Professional activities

JOI/USSAC Distinguished Lecturer, 1999-2000
Associate Editor, *Tectonics*, Publication of American Geophysical Union (AGU), 1996-1999
Tectonophysics Chair, AGU Spring Meeting, 1999
Member, Interior Steering and Science Evaluation Panel (ISSEP), JOIDES, 1997-
Liaison to Gas Hydrates Proposal Planning Group from ISSEP, 1998-99
Information Technology Committee, AGU, 1996-98
Translations Board, AGU, 1994-96
American Geophysical Union, member, 1987-
Geological Society of America, member, 1989- (nominated for Fellow status 1999)
National Ground Water Association, member, 1998-
Environmental and Engineering Geophysics Society, member, 1997-98

Five Publications

Ruppel, C., G. Schultz, S. Kruse, and EAS Field Methods Group, Deviations from Ghyben-Herzberg lens morphology on a Holocene barrier island, Gulf Coast, Florida, to be submitted to *J. Env. Eng. Geophys.*, July 1999.
Xu, W. and C. **Ruppel**, Predicting the occurrence, distribution, and evolution of methane gas hydrate in porous marine sediments from analytical models, *J. Geophys. Res.*, *104*, 5081-5096, 1999.
Wood, W. and C. **Ruppel**, Seismic and thermal investigations of the Blake Ridge gas hydrate area, *Proc. of ODP, Scientific Reports, Leg 164*, in press, 1999.
Ruppel, C., Anomalously cold temperatures observed at the base of the gas hydrate stability zone on the U.S. Atlantic passive margin, *Geology*, *25*, 699-702, 1997.
Ruppel, C., R.P. Von Herzen, and A. Bonneville, Heat flux through an old (~175 Ma) passive margin: offshore southeastern USA, *J. Geophys. Res.*, *100*, 20,037-20,058, 1995.

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Education

Continuing Education. October 1998 – present; ZD University, Cambridge, MA (via Internet)
Visual Basic 6 Databases I & II (6 CEU), Visual Basic 5 Programming I & II (6 CEU)

M.S. March 1992; University of Georgia, Athens, GA (advisor: Dr. Vicki S. Blazer)
Thesis: *Influence of Dietary Lipid and Temperature on Disease Resistance Mechanisms of Channel Catfish*

B.S. May 1985; University of Miami, Coral Gables, FL (Majors: Marine Science, Biology)

Work Experience

1/96-present: Laboratory Technician III, Dept. of Marine Sciences, Univ. of Georgia
Duties: Coordinate oceanographic field sampling of DOM and fluorescent organic matter (FOM). Develop computer software programs to process and validate instrument data, display and analyze spectroscopic scans, and plot positional data on coastline maps; laboratory and field studies of DOM.
Supervisor: Dr. Mary Ann Moran

8/89-1/96: Laboratory Technician III, Institute of Ecology, Univ. of Georgia
Duties: Perform laboratory and field studies on growth and physiology of marine bacteria.
Supervisor: Dr. Lawrence R. Pomeroy

Publications

Moran, M. A., W. M. Sheldon Jr. and J. E. Sheldon. 1999. Biodegradation of Riverine Dissolved Organic Carbon in Five Estuaries of the Southeastern United States. *Estuaries* 22: 55-64.

Cota, G. F., L. R. Pomeroy, W. G. Harrison, E. P. Jones, F. Peters, W. M. Sheldon, T. R. Weingartner. 1996. Nutrients, primary production and microbial heterotrophy in the Southeastern Chukchi Sea - Arctic summer nutrient depletion and heterotrophy. *Marine Ecology Progress Series* 135:247-258.

Pomeroy, L. R., J. E. Sheldon, W. M. Sheldon, Jr. and F. Peters. 1995. Limits to growth and respiration of bacterioplankton in the Gulf of Mexico. *Marine Ecology Progress Series* 117:259-268.

Pomeroy, L. R., J. E. Sheldon and W. M. Sheldon, Jr. 1994. Changes in bacterial numbers and leucine assimilation during estimations of microbial respiratory rates in seawater by the precision Winkler method. *Applied and Environmental Microbiology* 60:328-332.

Wiebe, W. J., W. M. Sheldon, Jr. and L. R. Pomeroy. 1993. Evidence for an enhanced substrate requirement by marine mesophilic bacterial isolates at minimal growth temperatures. *Microbial Ecology* 25:151-159.

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A. PROFESSIONAL PREPARATION

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1999-now Professor, Utrecht University, The Netherlands
1998&2000 Visiting Professor, Universit J. Fourier, Grenoble, France
1997-1999 Associate Professor, Georgia Institute of Technology, USA
1991-1997 Assistant Professor, Georgia Institute of Technology, USA
1990-1991 Postdoctoral Fellow, Swiss Institute of Aquatic Sciences, Zurich
1985-1990 Graduate Research Assistant, Geology & Geophysics, Yale University
1984-1985 Researcher, Pollution Control Unit, Ministry of Public Health, Belgium

C-i. FIVE SIGNIFICANT PUBLICATIONS

- ***Van Cappellen, P.**, S. Dixit and J. van Beusekom. 2002. Biogenic silica dissolution in the oceans: Reconciling experimental and field-based dissolution rates. *Global Biogeochem. Cycles* (in press).
- ***Van Cappellen, P.** 2002. Oxygen Cycle. In *Encyclopedia of Global Change: Environmental Change and Human Society* (ed. A. S. Goudie), pp. 197-200. Oxford University Press.
- * Meile, C., C. Koretsky and **P. Van Cappellen**. 2001. Quantifying bioirrigation in aquatic sediments: An inverse modelling approach. *Limnol. Oceanogr.* 46: 164-177.
- *Lowe, K., T. DiChristina, A. Roychoudhury and **P. Van Cappellen**. 2000. Microbiological and geochemical characterization of microbial Fe(III) reduction in salt marsh sediments. *Geomicrobial J.* 17: 163-178.
- ***Van Cappellen, P.**, E. Viollier, A. Roychoudhury, L. Clark, E. Ingall, K. Lowe and T. DiChristina. 1998. Biogeochemical cycles of manganese and iron at the oxic-anoxic transition of a stratified marine basin (Orca Basin, Gulf of Mexico). *Environ. Sci. Technol.* 32: 2931-2939.

C-ii. FIVE OTHER PUBLICATIONS

- *Dixit, S, **P. Van Cappellen** and A. J. van Bennekom. 2001. Processes controlling solubility of biogenic silica and pore water build-up of silicic acid in marine sediments. *Mar. Chem.* 73:333-352.
- *Furukawa, Y., S. J. Bentley, A. Shiller, D. Lavoie and **P. Van Cappellen**. 2000. Early diagenesis driven by biologically-enhanced oxygen flux in North Key Harbor, Dry Tortugas National Park, Florida. *J. Mar. Res.* 58: 493-522.

*Liger, E., L. Charlet and **P. Van Cappellen**. 1999. Surface catalysis of uranium(VI) reduction by Fe(II). *Geochim. Cosmochim. Acta*. 63: 2939-2955.

*Knowles V., **P. Van Cappellen** and C. Tiller. 1997. Effect of ionic strength on crystal growth kinetics: Probing the charge of reactive surface sites at the mineral-water interface. *Geochim. Cosmochim. Acta*. 61: 1871-1877.

***Van Cappellen, P.** and Y. Wang. 1996. Cycling of iron and manganese in surface sediments: A general theory for the coupled transport and reaction of carbon, oxygen, nitrogen, sulfur, iron and manganese. *Amer. J. Sci.* 296: 197-243.

D. SYNERGISTIC ACTIVITIES

Member Exploratory Committee Biogeology, Royal Netherlands Academy of Sciences (2001-2002). Member Organizing Committee Sixth Netherlands Earth Science Congress (2002). Scientific Officer, European Research Training Network Si-WEBS (2002-2006).

Member Board of Directors, Netherlands Research School of Sedimentary Geology (2000-2005).

Member Groundwater Pollution Steering Committee, European Science Foundation (2001).

Member TRIAS Program Committee, Dutch Science Foundation (NWO) (2001-2002).

Member International Committee International Symposia on Environmental Biogeochemistry (1999-2004)

E-i. COLLABORATORS (other than those listed in the above publications)

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Alakendra Roychoudhury, PhD 1999, Georgia Institute of Technology

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Yifeng Wang (1993 - 1995); Linqing Qiu (1993 — 1995); Eric Violier (1996 - 1997); Carla Koretsky (1998 - 2000); Thilo Behrends (2000-2001); Annet Laverman (2000-present); Caroline Slomp (2001-present); Céline Pallud (2001-present); Yvonne van Lith (2001-present).