

2013 Summer Student Fellow
Research Projects

Benjamin Birner, Jacobs University Bremen

Sediment provenance analysis in the Danube River using the SR and ND isotope systems

Advisor: Liviu Giosan, G&G

Austen J. Blair, Humboldt State University

Calculating the salinity balance of the North Atlantic salinity maximum

Advisor: Raymond Schmitt, PO

Jacqueline A. Carozza, Cornell University

Analysis of metabolites of marine microbes

Advisor: Elizabeth Kujawinski, MC&G

Carolyn S. Garrity, University of Maine

Secondary circulation in a two-inlet lagoon on Martha's Vineyard

Advisor: Steve Elgar, AOPE

Sara D. Goheen, MIT

Using the Jetyak as a vehicle for depth survey

Advisor: Christopher Sherwood

Jacqueline A. Grey, St. Lawrence University

Climate change effects on coral reef communities in southern Palau

Advisor: Anne Cohen and Daniel McCorkle, G&G

Vincent S. Guzzetta, DePauw University

A study of vibrio colonization of marine plastic

Advisor: Tracy Mincer, MC&G

Noel A. Held, Stetson University

Cobalamin interaction with nitric oxide and implications for total dissolved cobalt measurements in seawater samples

Advisor: Mak Saito, MC&G

Christina M. Hernandez, Columbia University

The vertical distribution of coral reef fish larvae and the implications for population connectivity

Advisors: Joel Llopiz and Julie Kellner, BIO

Tsung-Lin Hsieh, University of Illinois at Urbana-Champaign

Why chaos makes it hard to combine ocean models and observations

Advisor: Geoffrey Gebbie, PO

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Elaine Y. Kuo, Stanford University

Effects of TCDD on the expression of DNA methyltransferases (dnmts) during zebrafish development

Advisor: Neel Aluru

Erin T. Larragoite, University of New Mexico

Phytoplankton in the Arctic: Seasonal variability and distribution

Advisor: Samuel Laney, BIO

Jung Hyun (Mary Ann) Lee, Ohio Wesleyan University

*Effects of ocean acidification on the swimming behavior of paralarval longfin inshore squid (*Doryteuthis pealeii*)*

Advisor: T. Aran Mooney, BIO

Paige D. Logan, California Institute of Technology

Formation and propagation of anti-cyclonic eddies near the tail of the Grand Banks

Advisor: Amy Bower, PO

Yiling (Elaine) Luo, University of Toronto

*Effects of light and turbulence on swimming behavior of larval eastern oyster (*Crassostrea virginica*)*

Advisor: Lauren Mullineaux, BIO

Victoria H. Y. Luu, Boston College

Biogeochemical models: Impacts of ocean acidification on sea scallops & fisheries

Advisor: Scott Doney, MC&G

Hannah F. Mark, University of Chicago

Seismic reflection imaging of deep flexure-induced faults near subduction zones

Advisor: Daniel Lizarralde, G&G

Mollie J. McDowell, Amherst College

Evidence of deep-sourced seabed fluid expulsion along the Southern New England continental margin

Advisors: Daniel Brothers, Jason Chaytor and John Pohlman, USGS

Anna C. Nisi, Carleton College

Ciliates of the New England shelf: An exploration of summertime grazing and an analysis of community structure

Advisor: Heidi Sosik

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Camille Pagniello, Dalhousie University

Identifying the nature of a strong pervasive acoustic scattering layer in the northeast Pacific

Advisors: Andone Lavery, AOPE and Gareth Lawson, BIO

Jennifer L. Reeve, Haverford College

*Rate of carbon flow into the rhizosphere of salt marsh cordgrass (*Spartina alterniflora*)*

Advisor: Amanda Spivak, MC&G

Kaitlin R. Rempfert, University of Minnesota, Twin Cities

*Spatial sulfur variation within the modified gill chamber of the epibiont-colonized hydrothermal vent shrimp (*Rimicaris exoculata*)*

Advisors: Colleen Hansel, MC&G and Stefan Sievert, BIO

Alterra E. Sanchez, San Diego State University

Calibration of a CO₂ and pH sensor: Enabling the measurement of blue carbon flux

Advisor: Zhaohui Aleck Wang, MC&G

Nicole C. Shibley, Yale University

Investigation of the Arctic Ocean: Boundary currents and seasonal cycles

Advisor: John Toole, PO

Katherine A. Skinner, Princeton University

Lightweight REMUS 6000

Advisor: Michael Purcell, AOPE

Claire E. Stuhlmann, University of Pennsylvania

*The M Whistle: A stereotyped non-signature whistle in free-ranging Bottlenose dolphins (*Tursiops truncatus*)*

Advisor: Laela Sayigh, BIO

Madison M. Smith, Bowdoin College

Sediment transport in Katama Bay and inlet, Martha's Vineyard, Massachusetts

Advisor: Britt Raubenheimer, AOPE

Yen Joe Tan, Lafayette College

Simulations of tsunami triggered by the 1883 Krakatau volcanic eruption: Implications for tsunami hazard in the South China Sea

Advisor: Jian Lin, G&G

Benjamin M. Urann, University of Massachusetts, Amherst

Low temperature metamorphism at the 16.5° N area of the mid-Atlantic ridge

Advisor: Henry Dick, G&G

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Chantal L. Van Ginkel, Eckerd College

*Close calls between Bottlenose dolphin (*Tursiops truncatus*) mother-calf and male-male pairs in Sarasota Bay, Florida*

Advisor: Darlene Ketten, BIO

Kelly M. Williams, Allegheny College

First description of recently discovered deep sea coral ecosystems in northwest Atlantic canyons

Advisor: Timothy Shank, BIO