

2011 Summer Student Fellow
Research Projects

Antoniya A. Aleksandrova, Williams College

Advisor: John Collins, G&G

Isabella B. Arzeno, Stanford University

Looking under the Ross Ice Shelf: Tidal and subtidal analysis

Advisors: Robert Beardsley, Breck Owens and Richard Limeburner, PO

Maria F. M. Bangal, San Jose State University

Comparative analysis of protein expression in a marine cryptophyte and the ciliate that robs its organelles

Advisor: Matthew Johnson, BIO

Yana S. Bebieva, Moscow Institute of Physics and Technology

Chaotic stirring in 3D eddies

Advisor: Lawrence Pratt, PO

Alice M. Carter, Northwestern University

Controls on particle export in the West Antarctic Peninsula

Advisors: Kenneth Buesseler, MC&G

Eleanor M. Caves, Pomona College

Characterizing the vocalizations of long-finned pilot whales (Globicephala melas): Auditing DTAG recordings of three simultaneously-tagged individuals to create an analyzable data set

Advisor: Peter Tyack, BIO

Kristina L. Deak, Northeastern University

The effects of developmental valproic acid and ethanol exposure on microRNA expression in zebrafish (Danio rerio)

Advisors: Mark Hahn and Neel Aluru, BIO

Thomas M. DeCarlo, University of San Diego

Rayleigh-based multi-element coral paleothermometry: New developments and applications

Advisors: Anne Cohen and Glenn Gaetani, G&G

Jacinta Edebeli, UMass-Amherst & Mount Holyoke College

A simplified spectrophotometric method for measurements of seawater alkalinity

Advisor: Zhaohui Aleck Wang, MC&G

Leah Fine, Amherst College

A record of hurricane overwash deposition at Quissett Harbor, Woods Hole, MA

Advisor: Jeffrey Donnelly, G&G

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Anne Sasha Glanville, University of Kansas
The roles of the tropics and the North Pacific in Pacific decadal variability
Advisor: Young-Oh Kwon, PO

Niya G. Grozeva, Stony Brook University
Modeling geochemical environments in black smoker chimneys at the Kilo Moana vent field
Advisor: Margaret Tivey, MC&G

Eric Hawley, DePauw University
Cytochrome P450 regulation in the early development of two teleosts, Danio rerio and Fundulus heteroclitus
Advisor: John Stegeman, BIO

Grant Jiang, University of Maryland, College Park
Carbon variability off the West Antarctic Peninsula coast
Advisors: Scott Doney and David Glover, MC&G

Maxwell Kaplan, University of St. Andrews, Scotland
*Impact of elevated CO₂ conditions on paralarval longfin squid (*Loligo pealeii*) development and early life*
Advisor: T. Aran Mooney, BIO

Katelyn M. Lewis, Western Washington University

Advisor: Robert Pickard, PO

Max K. Lloyd, Amherst College
Constraining cooling rates of UHP metamorphic rocks with closure temperature geospeedometry: a case study from the Dabie orogen
Advisor: Nobumichi Shimizu, G&G

Joseph J. Lozier, Yale University

Sponsors: Steven Jayne and Louis St. Laurent, PO

Casey C. Maue, Stanford University
Continuous CH₄ flux measurements from the shallow Beaufort Sea using cavity ring-down spectroscopy (CRDS)
Advisor: John Pohlman, USGS

Alyssa J. McKenna, Mount Holyoke College
Groundwork for a Toolbox in MATLAB to Analyze CT Scans of Coral
Advisor: Hanumant Singh, AOPE

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Kevin T. Mori, Stanford University
SuPR-DUPR: Design of an AUV hydrothermal vent sampler
Advisor: Dana Yoerger and John 'Chip' Breier, AOPE

Molly A. Moynihan, Cornell University
Biogeochemical Modeling of West Falmouth Harbor
Advisor: Neil Ganju, USGS

Catrion Munro, University College London
Tracking habitat use of mobile hydrothermal vent fauna along the East Pacific Rise
Advisor: Timothy Shank, BIO

Sujata A. Murty, Oberlin College
Multi-century records of NAO variability using spatial SST gradients from Red Sea corals
Advisor: Konrad Hughen, MC&G

Alison O'Connor, Oberlin College
Mercury speciation and distribution in a wastewater-impacted groundwater plume
Advisor: Carl Lamborg, MC&G

Olivia N. Osicki, University of Cambridge, UK
Constraints on mineralogy and primary productivity in hydrothermal vent plumes of the Lau Basin
Advisor: John 'Chip' Breier, AOPE

Nivette M. Pérez Pérez, University of Puerto Rico at Humncao
Analysis of zooplankton in internal waves at Stellwagen Banks
Advisor: Jesús Pineda, BIO

Ana Karina Ramos Musalem, Universidad Nacional Autónoma de México
Experiments on tilting horizontal shear layers
Advisor: Karl Helfrich, PO

Emlyn Resetarits, Columbia University
Distribution patterns of toxic Pseudo-nitzschia species on Georges Bank during the spring/summer transition in 2010
Advisor: Donald Anderson, BIO

Rose Stanley, Cornell University
A review of Federal aquaculture legislation
Advisors: Hauke Kite-Powell and Porter Hoagland, MPC

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Jason S. Sadowski, Rutgers University

*Spatial analysis of the orange clownfish (*Amphiprion percula*) and its associated habitat in Kimbe Bay, Papua New Guinea*

Advisor: Rubao Ji and Julie Kellner, BIO

Laura A. Stevens, Wellesley College

Expressions and mechanisms of off-axis hydrothermal activity in the Guaymas Basin

Advisor: S. Adam Soule, G&G