



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles in Preparation – June 2003

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Beaulieu, S. E., M. R. Sengco, and D. M. Anderson

Using clay to control harmful algal blooms: Deposition and resuspension of clay/algal flocs.

Harmful Algae, IN PRESS.

Department of WHOI Author: AOPE. BIO.

Contribution Number: **10960**

Benfield, Mark C., Andone Lavery, Peter H. Wiebe, Charles H. Greene, Timothy K. Stanton, and Nancy Copley

Distributions of physonect siphonulae in the Gulf of Maine and their potential as important sources of acoustic scattering. *Can.J.Fish.Aquat.Sci.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10922**

Carmack, Eddy, and David C. Chapman

Wind-driven shelf/basin exchange on an Arctic shelf. *Geophys.Res.Lett.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10938**

Chiu, C. S., S. R. Ramp, C. W. Miller, J. F. Lynch, T. F. Duda, and T. Y. Tang

Acoustic intensity fluctuations induced by South China Sea internal tides and solitons. *IEEE J.Oceanic Eng.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10952**

Dhillon, Ashita, Andreas Teske, Jesse Dillon, David A. Stahl, and Mitchell L. Sogin

Characterization of sulfate reducing bacteria in the Guayas Basin. *Appl.Environ.Microbiol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10905**

Draut, A. E., M. E. Raymo, J. F. McManus, and D. W. Oppo

Climate stability during the Pliocene warm period. *Paleoceanography*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10955**

Dyhrman, Sonya, and Brian Palenik

Characterization of ectoenzyme activity and phosphate-regulated proteins in the coccolithophorid *Emiliana huxleyi*. *J.Plankton Res.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10939**

Edgcomb, Virginia P., Stephen J. Molyneaux, Mak A. Saito, Karen Lloyd, Simon Boer, Carl O. Wirsen, Michael S. Atkins, and Andreas Teske

Sulfide ameliorates metal toxicity for deep-sea hydrothermal vent archaea.

Proc.Natl.Acad.Sci.U. S. A., IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10928**

Feddersen, Falk, R. T. Guza, and Steve Elgar

Inverse modeling of one-dimensional setup and alongshore current in the nearshore.

J.Phys.Oceanogr., IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10956**

Fripp, Deborah, Caryn Owen, Ester Quintana-Rizzo, Ari Shapiro, Kara Buckstaff, Randall Wells, and Peter Tyack

Bottlenose dolphin (*Tursiops truncatus*) calves model their signature whistles on the whistles of community members they rarely hear. *Behav.Ecol.Sociobiol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10924**

Geels, C., S. C. Doney, R. Dargaville, J. Brandt, and J. H. Christensen

Investigating the sources of synoptic variability in atmospheric CO₂ measurements over the Northern Hemisphere continents: A regional model study. *Tellus*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10948**

Green, Rebecca, and Heidi Sosik

Seasonal variability in the contribution of seawater constituents to apparent optical properties in New England continental shelf surface waters. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10915**

Hurther, D., E. Terray, and U. Lemmin

Dynamics of shear layers induced by hairpin packets in shallow free surface flows: Implication for gas transfer in free-surface shear flows. In: *International Symposium on Shallow Flows, June 16-18, 2003, Delft University of Technology, Delft, The Netherlands*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10911**

Ito, Garrett, Jian Lin, and David Graham

Observational and theoretical studies of the dynamics of mantle plume-mid-ocean ridge interaction. *Rev.Geophys.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10945**

Joyce, Terrence M., Claude Frankignoul, Jiayan Yang, and Helen E. Phillips

Ocean response and feedback to the SST dipole in the tropical Atlantic. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10959**

Kormas, Konstantinos Ar., David C. Smith, Virginia Edgcomb, and Andreas Teske

Molecular analysis of deep subsurface microbial communities in Nankai Trough sediments (ODP Leg 190, Site 1176A). *FEMS Microbiol.Ecol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10914**

Lavendarm Kara L., W. Brechner Owens, and Russ E. Davis

The mid-depth circulation of the subpolar North Atlantic Ocean as measured by subsurface floats. *Deep-Sea Res.II*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10941**

Lerczak, James A., and W. Rockwell Geyer

Modeling the lateral circulation in straight, stratified estuaries. *Geophys.Res.Lett.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10946**

Lin, Jian, and Ross S. Stein

Stress interaction in thrust and subduction earthquakes. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10944**

Mecking, Sabine, Mark J. Warner, Catherine E. Green, Susan L. Hautala, and Rolf Sonnerup
The influence of mixing on CFC uptake and CFC ages in the North Atlantic Thermocline.
J.Geophys.Res., IN PRESS.
Department of WHOI Author: PO.
Contribution Number: **10958**

Milkov, Alexei V., George E. Claypool, Young-Joo Lee, Wenyue Xu, Gerald R. Dickens, Walter S. Borowski, and The ODP 204 Scientific Party
In situ methane concentrations at Hydrate Ridge offshore Oregon: New constraints on the global gas hydrate inventory from an active margin. *Geology*, IN PRESS.
Department of WHOI Author: GEOL.
Contribution Number: **10950**

Miller, Carolyn A., Joanna Y. Wilson, Michael J. Moore, Celine A. Godard, and John J. Stegeman
Cytochrome P450 1A1 expression in cetacean integument: A measure of aromatic hydrocarbon induced effects. *Mar.Mamm.Sci.*, IN PRESS.
Department of WHOI Author: BIO.
Contribution Number: **10921**

Moore, Micahel J., Amy R. Knowlton, Scott D. Kraus, William A. McLellan, and Robert K. Bonde
Morphometry, gross morphology and available histopathology in Northwest Atlantic right whale (*Eubalaena glacialis*) mortalities (1970 to 2002). *J.Cetacean Res.Manag.*, IN PRESS.
Department of WHOI Author: BIO.
Contribution Number: **10951**

Moore, Michael J., Belinda Rubinstein, and Stephanie Norman
The most northerly record of Gervais' Beaked Whale, *Mesoplodon europaeus*, from the western Atlantic. *Mar.Mamm.Sci.*, IN PRESS.
Department of WHOI Author: BIO.
Contribution Number: **10917**

Mullineaux, Lauren S., Charles H. Peterson, Fiorenza Micheli, and Susan W. Mills
Successional mechanism varies along a gradient in hydrothermal fluid flux at deep-sea vents.
Ecol.Monogr., IN PRESS.
Department of WHOI Author: BIO.
Contribution Number: **10943**

Powell, Wade H., Hilary G. Morrison, E. Jennifer Weil, Sibel I. Karchner, Mitch L. Sogin, John J. Stegeman, and Mark E. Hahn

Cloning and analysis of the CYP1A promoter from the Atlantic killifish (*Fundulus heteroclitus*). *Mar. Environ. Res.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10920**

Scheltema, Amelie H., and Dmitry L. Ivanov

Dacryomica plana gen. et sp. nov., a prochaetodermatid aplacophora from a Pacific seamount. *Veliger*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10949**

Spall, Michael A.

Boundary currents and water mass transformation in marginal seas. *J. Phys. Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10942**

Sperry, B., J. Lynch, G. Gawarkiewicz, C. Chiu, and A. Newhall

Characteristics of acoustic propagation to the eastern vertical line array receiver during the summer of 1996 New England Shelfbreak PRIMER experiment. *IEEE J. Oceanic Eng.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10947**

Sutton, Tracey T., and Karsten Hartel

Eustomias jimcraddocki, a new deep-sea dragonfishfish (Stomiiformes: Stomiidae) from the Western North Atlantic Ocean, with a review of the subgenus *Neostomias*. *Copeia*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10916**

Teske, Andreas, and Douglas C. Nelson

The genera *Beggiatoa* and *Thioploca*. In: *The Prokaryotes: An Evolving Electronic Resource For the Microbiological Community*. New York: Springer-Verlag, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10953**

Warren, Joseph D., Timothy K. Stanton, Peter H. Wiebe, and Harvey E. Seim

Inference of biological and physical parameters in an internal wave using multiple frequency acoustic scattering data. *ICES J.Mar.Sci*, IN PRESS.

Department of WHOI Author: AOPE. BIO.

Contribution Number: **10940**

Watwood, Stephanie L., and Edward C. G. Owen

Signature whistle use by temporarily restrained and free-swimming bottlenose dolphins.

Anim.Behav., IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10908**

Yu, Lisan, Robert A. Weller, and Bomin Sun

Improving latent and sensible heat flux estimates for the Atlantic Ocean (1988-1999) by a synthesis approach. *J.Climate*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10961**

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