



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles in Preparation - November 1999

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Andrews, S. S., S. Caron, and O. C. Zafiriou.

Photochemical oxygen consumption in marine waters: A major sink for colored dissolved organic matter. *Limnol.Oceanogr.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **9886**

Atherton, Juli.

Forced Rossby waves in a basin with a meridional barrier and bottom friction.

Nuovo Cimento, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10095**

Bach, Wolfgang and Susan E. Humphris.

Relationship between the Sr and O isotope compositions of hydrothermal fluids and the spreading and magma-supply rates at oceanic spreading centers.

Geology, IN PRESS.

Department of WHOI Author: MCG., GEOL.

Contribution Number: **9990**

Bowin, Carl.

Mass anomaly structure of the Earth. *Rev.Geophys.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10075**

Butler, R., A. D. Chave, F. K. Duennebie, D. R. Yoerger, R. Petit, D. Harris, F. B. Wooding, A. D. Bowen, J. Bailey, J. Jolly, E. Hobart, J. A. Hildebrand, and A. H. Dodeman.

The Hawaii-2 Observatory. *EOS*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10048**

Canales, J. Pablo, Robert S. Detrick, Jian Lin, John A. Collins, and Douglas R. Toomey.

Crustal and upper mantle seismic structure beneath the rift mountains and across a non-transform offset at the Mid-Atlantic Ridge (35°N).

J.Geophys.Res., IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10088**

Caswell, Hal.

Life table responses experiments in ecotoxicology.

In: *Demographic Ecotoxicology*, John Wiley Publishers, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10071**

Caswell, Hal.

Prospective and retrospective perturbation analyses: Their roles in conservation biology. *Ecology*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10072**

Conte, M. H., N. Ralph, and E. H. Ross.

Seasonal and interannual variability in deep ocean particle fluxes at the Ocean Flux Program (OFP)/Bermuda Atlantic Time Series (BATS) site in the western Sargasso Sea near Bermuda. *Deep-Sea Res.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **9982**

Dai, M. H. and C. R. Benitez-Nelson.

Colloidal organic carbon and ²³⁴Th in the Gulf of Maine. *Mar.Chem.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10080**

Elgar, Steve and Edith L. Gallagher.

Nearshore sand bar migration. *Nature*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10070**

Farrington, John W.

Achievements in chemical oceanography. *Fifty Years of Ocean Discovery*,

John H. Steele, ed. National Academies Press, Washington, D. C., IN PRESS.

Department of WHOI Author: ADMIN.

Contribution Number: **10083**

Garland, Elizabeth D. and Cheryl Ann Butman.

Techniques for the identification of bivalve larvae.

Mar.Ecol.Prog.Ser., IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10089**

Goldstone, J. V. and B. M. Voelker.

Chemistry of superoxide radical (O₂) in seawater: CDOM associated sink of superoxide in coastal waters. *Environ.Sci.Tech.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10081**

Hannigan, Robyn E. and Edward R. Sholkovitz.

Rare Earth Elements (REE) in natural terrestrial waters: Weathering of phosphate and the development of middle REE enrichments. *Chem.Geol.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **9961**

Hart, Stanley R., Jerzy Blusztajn, Henry J. B. Dick, Peter S. Meyer, and Karlis Muehlenbachs.

The fingerprint of seawater circulation in a 500-meter section of ocean crust gabbros. *Geochim.Cosmochim.Acta*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

Hassler, Deborah R., Bernhard Peucker-Ehrenbrink, and Greg E. Ravizza.

Rapid determination of os isotopic composition by sparging OsO₄ into a magnetic-sector ICP-MS. *Chem.Geol.*, IN PRESS.

Department of WHOI Author: MCG. GEOL.

Contribution Number: **9952**

Headrick, R. H., J. F. Lynch, J. Apel, M. Badiy, C. S. Chiu, S. Finnette, M. Orr, B. Pasewark, A. Turgut, S. Wolf, J. Kemp, A. Newhall, K. von der Heydt, and D. Tielbuerger.

Acoustic normal mode fluctuation statistics in the 1995 SWARM internal wave scattering experiment. *J.Acoust.Soc.Am.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10076**

Headrick, R. H., J. F. Lynch, J. Apel, M. Badiey, C. S. Chiu, S. Finnette, M. Orr, B. Pasewark, A. Turgut, S. Wolf, J. Kemp, A. Newhall, K. von der Heydt, D. Tielbuerger.

Modeling mode arrivals in the 1995 SWARM experiment acoustic transmissions.
J.Acoust.Soc.Am., IN PRESS.
Department of WHOI Author: AOPE.
Contribution Number: **10077**

Keigwin, Lloyd D. and Robert Pickart.

Slopewater current over the Laurentian fan on interannual to millennial timescales.
Nature, IN PRESS.
Department of WHOI Author: GEOL. PO.
Contribution Number: **NONE**

Kreutz, K. J., P. A. Mayewski, I. I. Pittalwala, L. D. Meeker, M. S. Twickler, and S. I. Whitlow.

Sea-level pressure variability in the Amundsen Sea region inferred from a West Antarctic glaciochemical record. *J.Geophys.Res.*, IN PRESS.
Department of WHOI Author: MCG.
Contribution Number: **10079**

Kurras, Gregory J., Daniel J. Fornari, Margo H. Edwards, Michael R. Perfit, and Matthew C. Smith.

Volcanic morphology of the East Pacific Rise Crest 9°49'-52' N: Implications for volcanic emplacement processes at fast-spreading mid-ocean ridges.
Mar.Geophys.Res., IN PRESS.
Department of WHOI Author: GEOL.
Contribution Number: **10073**

Marchitto, Thomas M., Jr., William B. Curry, and Delia W. Oppo.

Zinc concentration in benthic foraminifera reflect seawater chemistry.
Paleoceanography, IN PRESS.
Department of WHOI Author: GEOL.
Contribution Number: **10074**

Martin, W. R., A. P. McNichol, and D. C. McCorkle.

The radiocarbon age of calcite dissolving at the sea floor: Estimates from pore water data. *Geochim.Cosmochim.Acta*, IN PRESS.
Department of WHOI Author: MCG., GEOL.
Contribution Number: **10084**

Nowacek, Douglas P., Randall S. Wells, and Peter L. Tyack.

A platform for continuous behavioral and acoustic observation of free-ranging marine mammals: Overhead video combined with underwater audio.

Mar.Mamm.Sci., IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10087**

Petch, S. T., R. A. Berner, and T. I. Eglinton.

A field study of the chemical weathering of ancient sedimentary organic matter.

Org.Geochem., IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **9933**

Peucker-Ehrinbrink, Bernhard and Greg Ravizza.

The effects of sampling artifacts on cosmic dust flux estimates: A re-evaluation of non-volatile tracers (Os, Ir). *Geochim.Cosmochim.Acta*, IN PRESS.

Department of WHOI Author: MCG. GEOL.

Contribution Number: **10085**

Schlezingner, Jennifer J. and John J. Stegemen.

Dose and inducer-dependent induction of cytochrome P450 1A in endothelia of the eel, including in the swimbladder rete mirabile, a model microvascular structure.

Drug Metab.Dispos., IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10099**

Sholkovitz, Edward and Ronald Szymczak.

The estuarine chemistry of rare earth elements: Comparison of the Amazon, Fly, Sepik, and the Gulf of Papua Systems. *Earth Planet.Sci.Lett.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10078**

Sims, K. W. W., D. J. DePaolo, M. T. Murrell, W. S. Baldrige, S. Goldstein, D. Clague, and M. Jull.

Porosity of the melting zone and variations in the solid mantle upwelling rate beneath Hawaii: Inferences from ²³⁸U-²³⁰Th-²²⁶Ra and ²³⁵U-²³¹Pa disequilibria. *Geochim.Cosmochim.Acta*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

Stephen, R. A., J. A. Collins, J. A. Hildebrand, J. A. Orcutt, K. R. Peal, F. N. Spiess, and F. L. Vernon.

Seafloor seismic stations perform well in study. *EOS*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10096**

Stephen, Ralph A.

Optimum and standard beam widths for numerical modeling of interface scattering problems. *J.Acoust.Soc.Am.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10094**

Suzuki, Ryuji, Peter L. Tyack, and John R. Buck.

The use of Zipf's law in animal communication analysis.

Anim.Behav., IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10092**

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Information entropy of humpback whale songs. *J.Acoust.Soc.Am.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10093**

Voelker, B. M., D. L. Sedlak, and O. C. Zafiriou.

Chemistry of superoxide radical (O_2^-) in seawater: Reactions with organic Cu complexes. *Environ.Sci.Tech.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10082**

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December 3, 1999