



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles Received in January 2000

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**Ackert, Robert P., Jr., David J. Barclay, Harold W. Borns, Jr., Parker E. Calkin,  
Mark D. Kurz, James L. Fastook, and Eric J. Steig.**

Measurements of past ice sheet elevations in interior West Antarctica.

*Science*, 286:276-280, 1999.

Department of WHOI Author: GEOL., MCG.

Contribution Number: **10026**

**Altabet, M. A., C. Pilskaln, R. Thunell, C. Pride, D. Sigman, F. Chavez,  
and R. Francois.**

The nitrogen isotope biogeochemistry of sinking particles from the margin of the eastern North Pacific. *Deep-Sea Res. I*, 46(4):655-680, 1999.

Department of WHOI Author: MCG.

Contribution Number: **NONE**

**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*, 27(12):1067-1070, 1999.

Department of WHOI Author: MCG. GEOL.

Contribution Number: **9990**

**dos Santos Neto Eugenio Vaz and John M. Hayes.**

Use of hydrogen and carbon stable isotopes characterizing oils from the Potiguar basin (onshore), Northeastern Brazil. *AAPG Bull.*, 83(3):496-518, 1999.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Evans, Rob L., L. K. Law, B. St. Louis, S. Cheesman, and K. Sananikone.**

The shallow porosity structure of the Eel shelf, northern California: Results of a towed electromagnetic survey. *Mar.Geol.*, 154:211-226, 1999.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Goldner, D. R.**

On the uncertainty of the mass, heat, and salt budgets of the Arctic Ocean.

*J.Geophys.Res.*, 104(C12):29757-29770, 1999.

Department of WHOI Author: PO.

Contribution Number: **NONE**

**Goldner, D. R.**

Steady models of Arctic shelf-basin exchange.

*J.Geophys.Res.*, 104(C12):29733-29755

Department of WHOI Author: PO.

Contribution Number: **NONE**

**Halpern, David, Michael H. Freilich, and Robert A. Weller.**

ECMWF and ERS-1 surface winds over the Arabian Sea during July 1995.

*J.Phys.Oceanogr.*, 29:1619-1623, 1999.

Department of WHOI Author: PO.

Contribution Number: **NONE**

**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*, 63(23/24):4059-4080, 1999.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Hayes, John M., Harald Strauss, and Alan J. Kaufman.**

The abundance of <sup>13</sup>C in marine organic matter and isotopic fractionation in the global biogeochemical cycle of carbon during the past 800 Ma.

*Chem.Geol.*, 161:103-125, 1999.

Department of WHOI Author: GEOL.

Contribution Number: **9947**

**Headrick, R. H., James F. Lynch, John N. Kemp, Arthur E. Newhall, Keith von der Heydt, John Apel, Mohsen Badiy, Ching-sang Chiu, Steve Finette, Marshall Orr, Bruce Pasewark, Alton Turgot, Steve Wolf, and Dirk Tielbuerger.**

Acoustic normal mode fluctuation statistics in the 1995 SWARM internal wave scattering experiment. *J.Acoust.Soc.Am.*, 107(1):201-220, 2000.

Department of WHOI Author: AOPE.

Contribution Number: **10076**

**Headrick, Robert H., James F. Lynch, John N. Kemp, Arthur E. Newhall, Keith von der Heydt, John Apel, Mohsen Badiy, Ching-sang Chiu, Steve Finette, Marshall Orr, Bruce Pasewark, Alton Turgot, Steve Wolf, and Dirk Tielbuenger.**

Modeling mode arrivals in the 1995 SWARM experiment acoustic transmissions.

*J.Acoust.Soc.Am.*, 107(1):221-236, 2000.

Department of WHOI Author: AOPE.

Contribution Number: **10077**

**Hinrichs, Kai-Uwe, John M. Hayes, Sean P. Sylva, Peter G. Brewer, and Edward F. DeLong.**

Methane-consuming archaeobacteria in marine sediments.

*Nature*, 398:802-805, 1999.

Department of WHOI Author: GEOL.

Contribution Number: **9895**

**Ito, Garrett, Yang Shen, Greg Hirth, and Cecily J. Wolfe.**

Mantle flow, melting, and dehydration of the Iceland mantle plume.

*Earth Planet.Sci.Lett.*, 165(1):81-96, 1999.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Karchner, Sibel I., Wade H. Powell, and Mark E. Hahn.**

Identification and functional characterization of two highly divergent aryl hydrocarbon receptors (AHR1 and AHR2) in the teleost *Fundulus heteroclitus*.

*J.Biol.Chem.*, 274(47):33814-33824, 1999.

Department of WHOI Author: BIO.

Contribution Number: **9985**

**Lee, Sang Ho and Robert C. Beardsley.**

Influence of stratification on residual tidal currents in the Yellow Sea.

*J.Geophys.Res.*, 104(C7):15679-15701, 1999.

Department of WHOI Author: PO.

Contribution Number: **8829**

**Logan, Graham A., Clive R. Calver, Paul Gorjan, Roger E. Summons, John M. Hayes, and Malcolm R. Walter.**

Terminal Proterozoic mid-shelf benthic microbial mats in the Centralian Superbasin and their environmental significance.

*Geochim.Cosmochim.Acta*, 63(9):1345-1358, 1999.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Mann, K. K., R. A. Matulka, M. E. Hahn, A. F. Trombino, B. P. Lawrence, N. I. Kerkvliet, and D. H. Sherr.**

The role of polycyclic aromatic hydrocarbon metabolism in dimethylbenz[a]anthracene-induced pre-B lymphocyte apoptosis.

*Toxicol.Appl.Pharmacol.*, 161:10-22, 1999.

Department of WHOI Author: BIO.

Contribution Number: **9913**

**McNeil, J. D., H. W. Jannasch, T. Dickey, D. McGillicuddy, M. Brzezinski, and C. M. Sakamoto.**

New chemical, bio-optical and physical observations of upper ocean response to the passage of a mesoscale eddy off Bermuda.

*J.Geophys.Res.*, 104(C7):15537-15548, 1999.

Department of WHOI Author: BIO. AOPE.

Contribution Number: **NONE**

**Moore, M. J., S. D. Berrow, B. A. Jensen, P. Carr, R. Sears, V. J. Rowntree, R. Payne, and P. K. Hamilton.**

Relative abundance of large whales around South Georgia (1979-1998).

*Mar.Mamm.Sci.*, 15(4):1287-1302, 1999.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

**Norris, Richard D.**

Recognition and macroevolutionary significance of photosymbiosis in molluscs, corals, and foraminifera. In: *Isotope Paleobiology and Paleoecology*, Richard D.

Norris and Richard M. Corfield, eds. The Paleontological Society Papers, Museum of Natural History, Pittsburgh, PA, 4:68-100, 1998.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Qi, Yu-zao, Hong Ying, Zheng Lei, David M. Kulis, and Donald M. Anderson.**

Dinoflagellate cysts from recent marine sediments of the South and East China Seas. *Asian Mar.Biol.*, 13:87-103, 1996.

Department of WHOI Author: BIO.

Contribution Number: **9308**

**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  $^{238}\text{U}$ - $^{230}\text{Th}$ - $^{226}\text{Ra}$  and  $^{235}\text{U}$ - $^{231}\text{Pa}$  disequilibria.

*Geochim.Cosmochim.Acta*, 63J(23/24):4119-4138, 1999.

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*, 80(49):592, 1999.

Department of WHOI Author: GEOL. AOPE.

Contribution Number: **10096**

**Taroncher-Oldenburg, Gaspar and Donald M. Anderson.**

Identification and characterization of genes related to saxitoxin biosynthesis in the red tide dinoflagellate *Alexandrium tamarense*. In: *Harmful Algae*, Beatriz Reguera, et al., eds. Intergovernmental Oceanographic Commission of UNESCO, Paris, :331-332, 1998.

Department of WHOI Author: BIO.

Contribution Number: **9455**

**Trowbridge, J. H., W. R. Geyer, M. M. Bowen, and A. J. Williams, III.**

Near-bottom turbulence measurements in a partially mixed estuary: Turbulent energy balance, velocity structure, and along-channel momentum balance.

*J.Phys.Oceanogr.*, 29:3056-3072, 1999.

Department of WHOI Author: AOPE.

Contribution Number: **9710**

**Yawetz, Aminadav.**

Cytochromes P450 (CYP) in liver of the turtle *Chrysemys picta picta* and the induction and partial purification of CYP1A-like proteins.

*Biochim.Biophys.Acta*, 138(1):12-26, 1998.

Department of WHOI Author: BIO.

Contribution Number: **9592**

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