



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles Received in December 1997

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Bonneville, A., R.P. Von Herzen, F. Lucazeau, A. Provost, B. Ollivier, A. Desautez, M.P. Doin, A. Eliason, L. Faynot, M. Godard, P. Gouze, J. Guilbert, J. Kirklin, S. Klarika, L. Lin, B. Malengreau, D. Rousset, C. Wolfteich.

A thinned lithosphere under the reunion hot-spot: Clues from a new set of heat-flow data acquired over the Mascarene Ridge (Published in French).

C.R.Acad.Sci.Paris, **321**(10):909-915.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

Geyer, W. Rockwell.

Influence of wind on dynamics and flushing of shallow estuaries.

Estuar.Coast.Shelf Sci., **44**:713-722.

Contracts: NSF OCE89-14729 through Boston University.

Department of WHOI Author: AOPE.

Contribution Number: **9046**

Goyet, C. and E.T. Peltzer.

Variation of CO₂ partial pressure in surface seawater in the equatorial Pacific Ocean. *Deep-Sea Res.*, **44**(9-10):1611-1625.

Contracts: NSF OCE-9115317, NSF OCE-9115201, NASA NAGW-2431.

Department of WHOI Author: MCG.

Contribution Number: **9210**

Hahn, Mark E., Sibel I. Karchner, Miriam A. Shapiro, and Samantha A. Perera.

Molecular evolution of two vertebrate aryl hydrocarbon (dioxin) receptors (AHR1 and AHR2) and the PAS family. *Proc.Nat.Acad.Sci.U.S.A.*, **94**:13743-13748.

Contracts: NSF BIR94-19673, NIEHS R29-ES06272, NIEHS F32-ES05644, NIEHS P42-ES07381, Donald Charitable Trust, Christopher Haebler Frantz Fellowship.

Department of WHOI Author: BIO.

Contribution Number: **9560**

Hufford, Gwyneth E., Michael S. McCartney, and Kathy Donohue.

Northern boundary currents and adjacent recirculations off southwestern Australia.

Geophys.Res.Lett., **24**(22):2797-2800.

Contracts: NSF OCE-9205119, NSF OCE-9413167, OCE-9413172.

Department of WHOI Author: PO.

Contribution Number: **9507**

Jannasch, Holger W.

Small is powerful, recollections of a microbiologist and oceanographer.

Ann.Rev.Microbiol., **51**:1-45.

Contracts: NSF OCE94-15371.

Department of WHOI Author: BIO.

Contribution Number: **9388**

McGillicuddy, D. J., and A. R. Robinson.

Eddy induced nutrient supply and new production in the Sargasso Sea.

Deep-Sea Res., Part 1:**44**(8):142.

Contracts: UCAR Postdoctoral Program in Ocean Modeling, WHOI Postdoctoral Scholarship program, Jet Propulsion Laboratory Contracts 957627 and 960517.

Department of WHOI Author: AOPE.

Contribution Number: **9331**

Moffett, James W., Larry E. Brand, Peter L. Croot, and Katherine A. Barbeau.

Cu speciation and cyanobacterial distribution in harbors subject to anthropogenic

Cu inputs. *Limnol.Oceanogr.*, **42**(5):789-799.

Contracts: ONR N00014-93-1-0833.

Department of WHOI Author: MCG.

Contribution Number: **9315**

Moyer, K. A. and R. A. Weller.

Observations of surface forcing from the subduction experiment: A comparison with global model products and climatological datasets. *J.Clim.*, **10**:2725-2742.

Contracts: ONR N00014-90-J-1490.

Department of WHOI Author: PO.

Contribution Number: **9133**

Murnane, R. J., J. K. Cochran, K.O. Buesseler, and M. P. Bacon.

Least-squares estimates of thorium, particle, and nutrient cycling rate constants from the JGOFS North Atlantic Bloom Experiment.

Deep-Sea Res. I, **43**(2):239-258.

Contracts: NSF OCE88-17836, NSF OCE90-16494.

Department of WHOI Author: MCG.

Contribution Number: **8982**

Palmer, Margaret A., J. David Allan, and Cheryl Ann Butman.

Dispersal as a regional process affecting local dynamics of marine and stream invertebrates. *Trends Ecol. & Evol.*, **11**:322-326.

Contracts: NSF OCE-9216114.

Department of WHOI Author: AOPE.

Contribution Number: **9150**

Panagiotopoulos, I., G. Voulgaris, and J. B. Collins.

The influence of clay on the threshold of movement of fine sandy beds.

Coastal Eng., **32**:19-43, .

Contracts: Postdoctoral Scholar Award, Mellon Foundation.

Department of WHOI Author: GEOL.

Contribution Number: **9418**

Scheirer, Daniel S., Ken C. Macdonald, Donald W. Forsyth, and Yang Shen.

Abundant seamounts of the Rano Rahi seamount field near the Southern East Pacific rise, 15°S to 19°S. *Mar. Geophys. Res.*, **18**:13-52 .

Contracts: NSF OCE89-11587.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

Schmitz, B., B. Peucker-Ehrenbrink, M. Lindstrom, and M. Tassinari.

Accretion rates of meteorites and cosmic dust in the early Ordovician.

Science, **278**:88-90.

Contracts: Jessie B. Cox Endowed Fund, Penzance Endowed Fund.

Department of WHOI Author: MCG.

Contribution Number: **9538**

Shen, Yang, Donald W. Forsyth, James Conder, and LeRoy M. Dorman.

Investigation of microearthquake activity following an intraplate teleseismic swarm on the west flank of the Southern East Pacific Rise.

J. Geophys. Res., **102**(B1):459-475.

Contracts: WHOI Postdoctoral fellowship.

Department of WHOI Author: GEOL.

Contribution Number: **9361**

Shen, Yang and Donald W. Forsyth.

Geochemical constraints on initial and final depths of melting beneath mid-ocean ridges. *J. Geophys. Res.*, **100**(B2):2211-2237.

Contracts: NSF OCE89-15404, OCE-9202599.

Department of WHOI Author: GEOL.
Contribution Number: **NONE**

Shen, Yang, Daniel S. Scheirer, Donald W. Forsyth, and Ken C. Macdonald.

Trade-off in production between adjacent seamount chains near the East Pacific Rise. *Nature*, **373**:140-143.
Contracts: National Science Foundation.
Department of WHOI Author: GEOL.
Contribution Number: **NONE**

Solow, Andrew R. and Woollcott Smith.

On fossil preservation and the stratigraphic ranges of taxa.
Paleobiology, **23**(3):271-277.
Contracts: The Marine Policy Center.
Department of WHOI Author: MPC.
Contribution Number: **9347**

Takada, Hideshige, Futoshi Satoh, Michael Bothner, Michael, Bruce Tripp, Carl Johnson, and John Farrington.

Anthropogenic molecular markers: Tools to identify the sources and transport pathways to pollutants. In: *Molecular markers in environmental geochemistry*. Robert P. Eganhouse, ed. ACS Symposium Series No. 671. American Chemical Society, Washington, DC, 178-195.
Contracts: NOAA 15-892.
Department of WHOI Author: MCG.
Contribution Number: **9404**

Tivey, Margaret K. and Sandipa Singh.

Nondestructive imaging of fragile sea-floor vent deposit samples.
Geology, **25**(10):931-934.
Contracts: NSF OCE92-16046, NSF OCE93-14005.
Department of WHOI Author: MCG.
Contribution Number: **9557**

Taroncher-Oldenburg, Gaspar, David M. Kulis, and Donald M. Anderson.

Toxin variability during the cell cycle of the dinoflagellate *Alexandrium fundyense*.
Limnol. Oceanogr., **42**(5, part 2):1178-1188.
Contracts: NSF OCE90-11225, NSF OCE94-15536.
Department of WHOI Author: BIO.
Contribution Number: **9223**

Waser, Nathalie A. D., Michael P. Bacon, and Anthony F. Michaels.

Natural activities of ^{32}P and ^{33}P and the $^{33}\text{P}/^{32}\text{P}$ ratio in suspended particulate matter and plankton in the Sargasso Sea. *Deep-Sea Res. II*, **43**(2-3):421-436.
Contracts: NSF OCE88-17836, NSF OCE90-16494, NSF OCE90-22284.

Department of WHOI Author: MCG.
Contribution Number: **8996**

Whelan, Jean.

The dynamic migration hypothesis. *Sea Technol.*, September 1997:10-18.
Contracts: DOE, Office of Basic Energy Sciences, Gas Research Institute, DOE,
Fossil Energies Division, Vetelson Foundation.
Department of WHOI Author: MCG.
Contribution Number: **NONE**

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