



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles Received in October 1997

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**Anderson, Donald M.**

Turning back harmful red tide. *Nature*, 388:513-514.  
Department of WHOI Author: BIO.  
Contribution Number: **NONE**

**Aubry, Marie-Pierre, William A. Berggren, Lowell Stott and Ashish Sinha.**

The upper Paleocene-lower Eocene stratigraphic record and the Paleocene-Eocene boundary carbon isotope excursion: Implications for geochronology.  
In: *Correlation of the Early Paleogene in Northwestern Europe*. *Geophysical Society Special Publication No. 101*. R. O'B. Knox, R. Corfield and R. E. Dunnay, eds. The Geological Society of London, 107(11):353-380.  
Contracts: NSF OCE91-01463.  
Department of WHOI Author: GEOL.  
Contribution Number: **8856**

**Berggren, W. A. and M.-P. Aubry.**

A late Paleocene-early Eocene NW European and North Sea magnetobiochronological correlation network. In: *Correlation of the early Paleogene in northwest Europe*. Geological Society Special Publication. No. 101. R. W. O'B. Knox, R. M. Corfield, and R. E. Dunay, eds. The Geological Society, London, 107(11):309-352, .  
Contracts: NSF OCE91-01463.  
Department of WHOI Author: GEOL.  
Contribution Number: **8855**

**Blusztajn, J. and S. R. Hart.**

Sr and O isotopic ratios of aragonite veins from site 895.

*Proc.Ocean Drill.Prog., Sci.Res.*, 147:311-313.

Contracts: NSF OCE91-01340.

Department of WHOI Author: GEOL.

Contribution Number: **8789**

**Brocher, Thomas M., Jill McCarthy, Patrick E. Hart, W. Steven Holbrook, Kevin P. Furlong, Thomas V. McEvilly, John A. Hole and Simon L. Klemperer.**

Seismic evidence for a lower-crustal detachment beneath San Francisco Bay, California. *Science*, 265:1436-1439.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Brueckner, H. K., J. Blusztajn and N. Bakun-Czubarow.**

Trace element and Sm-Nd “age” zoning in garnets from peridotites of the Caledonian and Variscan mountains and tectonic implications.

*J.Metamorph.Geol.*, 14(1):61-73.

Contracts: NSF EAR87-16948.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**DiMarco, S. F., F. J. Kelly, E. F. Childress and D. G. Aubrey.**

Field comparison of two directional wave gauges. In: *Proceedings MTS '94 7-9 Sept., 1994*. Washington, DC. Marine Technology Society, Washington, DC, :32-38.

Contracts: US Minerals Management Service 14-35-0001-30509.

Department of WHOI Author: GEOL.

Contribution Number: **8807**

**Duda, Timothy F. and Douglas C. Webb.**

The drifting, rotating deep-ocean shearmeter. *Oceans '97*.

Contracts: NSF OCE-9416014.

Department of WHOI Author: AOPE.

Contribution Number: **9499**

**Hart, Stanley R. and Gregory E. Ravizza.**

Os partitioning between phases in lherzolite and basalt. *Earth Processes: Reading the isotopic code*. Geophysical Monograph 95, American Geophysical Union, Washington, D.C., :123-134, .

Contracts: NSF EAR90-96194, NSF EAR92-19958.

Department of WHOI Author: GEOL.

Contribution Number: **8990**

**Hart, Stanley R. and Anne L. Cohen.**

An ion probe study of annual cycles of Sr/Ca and other trace elements in corals. *Geochim.Cosmochim.Acta*, 60(16):3075-3084.  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Hart, Stanley R., Anne L. Cohen and Peter Ramsay.**

Microscale analysis of Sr/Ca and Ba/Ca in *Porites*. IN: *Proceedings. Eighth International Coral Reef Symposium*, 2:1707-1712 .  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Hart, Stanley R., Jerzy Blusztajn, Wesley Childress, E. LeMasurier and David C. Rex.**

Hobbs Coast Cenozoic volcanism: Implications for the West Antarctic rift system. *Chem.Geol.*, 139:223-248.  
Contracts: DPP91-17853, DPP94-19094.  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Hattori, Keiko, Stanley R. Hart and Nobumichi Shimizu.**

Melt and source mantle compositions in the Late Archaean: A study of strontium and neodymium isotope and trace elements in clinopyroxenes from shoshonitic alkaline rocks. *Geochim.Cosmochim.Acta*, 60(22):4551-4562.  
Contracts: NSF EAR87-08372, NSF EAR90-96194.  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Hauri, Erik H. and Stanley R. Hart.**

Rhenium abundances and systematics in oceanic basalts. *Chem.Geol.*, 139:185-205 .  
Contracts: NSF EAR92-19958.  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Holbrook, W. Steven.**

Underplating over hotspots. *Nature*, 373:559.  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Holbrook, W. Steven, Hartley Hoskins, Warren T. Wood, Ralph A. Stephen, Daniel Lizarralde and the Leg 164 Science Party.**

Methane hydrate and free gas on the Blake Ridge from vertical seismic profiling. *Science*, 273:1840-1843, .

Contracts: USSSP #F00023 26015700, NSF OCE93-20477, NSF OCE95-04610, JOI-USSAC subaward 7-95.

Department of WHOI Author: GEOL.

Contribution Number: **9322**

**Holbrook, W. Steven, Thomas M. Brocher, Uri S. ten Brink and John A. Hole.**

Crustal structure of a transform place boundary: San Francisco Bay and the central California continental margin. *J.Geophys.Res.*, 101(B10):22311-22334.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Karchner, Sibel I. and Mark E. Hahn.**

A reverse transcription-polymerase chain reaction (RT-PCR) approach for cloning Ah receptors from diverse vertebrate species: Partial sequence of an Ah receptor from the teleost *Fundulus heteroclitus*. *Mar.EnvIRON.Res.*, 42(1-4):13-17, .

Contracts: USPHS/NIEHS ES06272, USPHS/NIEHS ES05644,

Richard B. Sellars Research Fund.

Department of WHOI Author: BIO.

Contribution Number: **8979**

**Lee, Sang-Mook, Sean C. Solomon and Maurice A. Tivey.**

Fine-scale crustal magnetization variations and segmentation of the East Pacific Rise, 9°10'-9°50'N. *J.Geophys.Res.*, 101(B10):22033-22050.

Contracts: NSF OCE86-15797, NSF OCE86-15892, NSF OCE90-00177.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Peucker-Ehrenbrink, B.**

Accretion of extraterrestrial matter during the last 80 million years and its effect on the marine Osmium isotope record.

*Geochim.Cosmochim.Acta*, 60(17):3187-3196, .

Contracts: WHOI Postdoctoral Fellowship.

Department of WHOI Author: MCG.

Contribution Number: **9171**

**Ruppel, C., R. P. Von Herzen and A. Bonneville.**

Heat flux through an old (~175 Ma) passive margin: Offshore southeastern United States. *J.Geophys.Res.*, 100(B10):20037-20057.

Contracts: NSF OCE91-01887, WHOI Postdoctoral Fellowship.

Department of WHOI Author: GEOL.

Contribution Number: **9012**

**Sinha, Ashish, Marie-Pierre Aubry, Lowell D. Stott, Medard Thiry and William A. Berggren.**

Chemostratigraphy of the “lower” Sparnacian deposits (*Argiles plastiques barioteles*) of the Paris Basin. *Isr.J.Earth-Sci.*, 44:223-237.

Department of WHOI Author: GEOL.

Contribution Number: **9159**

**Smith, H. Jesse, Arthur J. Spivak, Hubert Staudigel and Stanley R. Hart.**

The Boron isotopic composition of altered oceanic crust.

*Chem.Geol.*, 126:119-135.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Sosik, Heidi M.**

The role of phytoplankton photophysiological variability in optical modeling of marine primary production. IN: *Proceedings of the International colloquium photosynthesis and remote sensing, 28-30 August 1995, Montpellier, France*, :251-259.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

**Stix, John and Graham D. Layne.**

Gas saturation and evolution of volatile and light lithophile elements in the Bandelier magma chamber between two caldera-forming eruptions.

*J.Geophys.Res.*, 101(B11):25181-25196.

Contracts: NSERCC.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Stott, Lowell D., Ashish Sinha, Medard Thiry, Marie-Pierre Aubry and William A. Berggren.**

Global  $\delta_{13}$  changes across the Paleocene-Eocene boundary: criteria for terrestrial-marine correlations. In: *Correlation of the Early Paleogene in Northwest Europe*. Geological Society Special Publication No. 101. R. O'B. Knox, R. Corfield and R. E. Dunnay, eds. Geological Society of London, London, 107(11):381-399.

Contracts: NSF OCE91-01463.

Department of WHOI Author: GEOL.

Contribution Number: **8854**

**Talwani, Manik, John Ewing, Robert E. Sheridan, W. Steven Holbrook and Lynn Glover III.**

The EDGE experiment and the U.S. east coast magnetic anomaly. In: *Rifted ocean-continent boundaries*. E. Banda, M. Torne, and M. Talwani, eds. Kluwer Academic Publishers, Dordrecht, The Netherlands, :155-181.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Taylor, Craig D. and Carl O. Wirsen.**

Microbiology and ecology of filamentous sulfur formation.

*Science*, 277:1483-1485.

Contracts: NSF IBN96-30054.

Department of WHOI Author: BIO.

Contribution Number: **9432**

**Terray, E. A., M. A. Donelan, Y. C. Agrawal, W. M. Drennan, K. K. Kahma, A. J. Williams III, P. A. Hwang and S. A. Kitaigorodskii.**

Reply. *J.Phys.Oceanogr.*, 27:2308-2309.

Contracts: NSF OCE95-21002.

Department of WHOI Author: AOPE.

Contribution Number: **9484**

**Washburn, Libe, Timothy F. Duda and David C. Jacobs.**

Interpreting conductivity microstructure: Estimating the temperature variance dissipation rate. *J.Atmos.Ocean.Technol.*, 13:1166-1188.

Contracts: NSF OCE92-16204.

Department of WHOI Author: AOPE.

Contribution Number: **8906**

**Wiebe, P. H., D. G. Mountain, T. K. Stanton, C. H. Greene, G. Lough, S. Kaartvedt, J. Dawson and N. Copley.**

Acoustical study of the spatial distribution of plankton on Georges Bank and the relationship between volume backscattering strength and the taxonomic composition of the plankton. *Deep-Sea Res.II*, 43(7-8):1971-2002 .

Contracts: ONR N00014-92-J-1527, NOAA NA16RC-0515, NSF OCE801264, WHOI.

Department of WHOI Author: BIO., AOPE.

Contribution Number: **8914**

**Wiebe, Peter H. and Robert C. Beardsley.**

Introduction to physical-biological interactions on Georges Bank and its environs.  
*Deep-Sea Res. II*, 43(7/8):1437-1438.

Contracts: NSF OCE-920164, NSF OCE-9315713, NSF OCE-9313675, NOAA  
NA16RC0515.

Department of WHOI Author: BIO., PO.

Contribution Number: **9267**

**Yu, Ein-Fen, Roger Francois and Michael P. Bacon.**

Similar rates of modern and last-glacial ocean thermohaline circulation inferred  
from radiochemical data. *Nature*, 379:689-694.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

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