



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles in Preparation – December 2002

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**Ackert, Robert P., Jr.**

An ice sheet remembers. *Science*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10798**

**Adkins, J. F., E. A. Boyle, W. B. Curry, and A. Lutringer**

Stable isotopes in deep-sea corals and a new mechanism for "vital effects".

*Geochim. Cosmochim. Acta*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10841**

**Alt, J. C., W. Bach, and S. E. Humphris**

Geochemistry of vein minerals in ODP Hole 735B (Southwest Indian Ridge): Stable and strontium isotope compositions. *Earth Planet. Sci. Lett.*, IN PRESS.

Department of WHOI Author: MCG.

**Bach, W., J. C. Alt, S. E. Humphris, P. S. Meyer, and J. Blustajn**

Trace element and Sr isotopic compositions of amphibole veins in the lower ocean crust (ODP Hole 735B, Southwest Indian Ridge). *Earth Planet. Sci. Lett.*, IN PRESS.

Department of WHOI Author: MCG.

**Bach, W., S. E. Humphris, and A. T. Fisher**

Water-rock reactions and fluid flow in the oceanic crust: Reconciling geological, geochemical and geophysical observations. In: *Subseafloor Biosphere at Mid-Ocean Ridges*. W.

Wilcock, C. Cary, E. Delong, D. Kelley, J. Baross (eds.), *AGU*, IN PRESS.

Department of WHOI Author: MCG.

**Bach, W., Y. Niu, S. E. Humphris, and J. Erzinger**

The effect of low-temperature alteration on elemental redistribution in gabbros from the Southwest Indian Ridge (ODP Hole 735B). *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: MCG.

**Baldwin, K. C., J. D. Irish, B. Celikkol, M. R. Swift, D. Fredriksson, and I. Tsukrov**

Open ocean aquaculture engineering. *Oceans '02*, IN PRESS.

Department of WHOI Author: AOPE.

**Clift, Peter, Christoph Gaedicke, Rosemary Edwards, Jae Il Lee, Peter Hildebrand, Shahid Amjad, Robert S. White, and Hans-Ulrich Schulter**

The stratigraphic evolution of the Indus Fan and the history of sedimentation in the Arabian Sea. *Mar.Geophys.Res.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10792**

**Conte, M. H., J. C. Weber, P. J. Carlson, and L. B. Flanagan**

Molecular and carbon isotopic composition of leaf wax in vegetation and aerosols in a northern prairie ecosystem. *Oecologia*, IN PRESS.

Department of WHOI Author: MCG.

**Doney, S. C., D. M. Glover, M. Fuentes, and S. McCue**

Mesoscales variability of satellite ocean color: Global patterns and spatial scales.

*J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: MCG.

**Dunk, R. M., W. J. Jenkins, and R. A. Mills**

A re-evaluation of the oceanic uranium budget. *Chem.Geol.*, IN PRESS.

Department of WHOI Author: MCG.

**Dyhrman, Sonya T. and Donald M. Anderson**

Urease activity in cultures and field populations of the toxic dinoflagellate *Alexandrium*.

*Limnol.Oceanogr.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10679**

**Edwards, K. J., W. Bach, and D. R. Rogers**

Geomicrobiology of the ocean crust: A role for chemoautotrophic Fe-bacteria. *Biol.Bull.*, IN PRESS.

Department of WHOI Author: MCG.

**Edwards, K. J., D. R. Rogers, and C. O. Wirsen**

Isolation and characterization of novel psychrophilic, neutrophilic, Fe-oxidizing chemolithoautotrophic alpha- and gamma-Proteobacteria from the deep sea.

*Appl. Environ. Microbiol.*, IN PRESS.

Department of WHOI Author: MCG.

**Fredriksson, D. W., M. R. Swift, J. D. Irish, and B. Celikkol**

Fish cage and mooring system dynamics using physical and numerical models with field measurements. *Aquacultural Eng. Jour.*, IN PRESS.

Department of WHOI Author: AOPE.

**Fredriksson, D. W., M. R. Swift, J. D. Irish, and B. Celikkol**

The heave response of a central spar fish cage. *Journal of Offshore Mechanics and Artic Engineering*, IN PRESS.

Department of WHOI Author: AOPE.

**Freitag, M. Stojanovic, M. Grund, and S. Singh**

Acoustic communication for regional undersea observatories. *Proceedings Oceanology 2002, London, March 2002*, IN PRESS.

Department of WHOI Author: AOPE.

**Ganeshram, R. S., R. Francois, J. Commeau, and S. L. Brown-Leger**

An experimental investigation of barite formation in seawater. *Geochim. Cosmochim. Acta*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10845**

**Girton, James B. and Thomas B. Sanford**

Descent and modification of the Overflow Plume in the Denmark Strait. *J. Phys. Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10691**

**Goldman, J. C. and D. J. McGillicuddy, Jr.**

Impact of large marine diatoms growing at low light on episodic new production.

*Limnol. Oceanogr.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10797**

**Gutierrez, B. T., Elazar Uchupi, N. W. Driscoll, and D. G. Aubrey**

Relative sea-level rise and the development of valley-fill and shallow-water sequences in Nantucket Sound, Massachusetts. *Mar.Geol.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10796**

**Hughen, K. A.**

Varved sediments, analysis and applications. In: *Current Methods in Geochronology: Temporal Resolution in Geology, Paleontology, Archaeology, and Anthropology*. P. Copeland, D. Foster, and R. Roberts (eds.), Kluwer Academic Press, IN PRESS.

Department of WHOI Author: MCG.

**Koopman, H. N., S. J. Iverson, and A. J. Read**

High concentrations of isovaleric acid in the fats of odontocetes: Variation and patterns of accumulation in blubber vs. stability in the melon. *J.Comp.Physiol.B*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10683**

**Kromer, B., K. Hughen**

Radiocarbon analysis, calibration and applications. In: *Current Methods in Geochronology: Temporal Resolution in Geology, Paleontology, Archaeology, and Anthropology*. P. Copeland, D. Foster, and R. Roberts (eds.), Kluwer Academic Press, IN PRESS.

Department of WHOI Author: MCG.

**Malins, Donlad C., John J. Stegeman, Paul M. Johnson, Jordan Gold, and Katie M. Anderson**

Structural changes in gill DNA reveal contaminant effects on fish: Potential for evaluating biological impacts and success of remediation. *Environ.Sci.Technol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10827**

**Michel, A. P. M., K. L. Croff, K. W. McLechie, and J. D. Irish**

A remote monitoring system for open ocean aquaculture. *Oceans '02*, IN PRESS.

Department of WHOI Author: AOPE.

**Ohkouchi, N., T. I. Eglinton, and J. M. Hayes**

Ross Sea, radiocarbon dating of individual fatty acids as a tool for refining Antarctic margin sediment chronologies. *Radiocarbon*, IN PRESS.

Department of WHOI Author: MCG.

**Petsch, S. T., T. I. Eglinton, and K. J. Edwards**

Studies using compound-specific analysis of stable carbon isotopes in phospholipid fatty acids from a black shales weathering profile. *Org.Geochem.*, IN PRESS.

Department of WHOI Author: MCG.

**Schulze, Anja and Kenneth M. Halanych**

Siboglinid evolution shaped by habitat preference and sulfide tolerance. *Hydrobiologia*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10675**

**Siddall, Mark, Lawrence J. Pratt, Karl R. Helfrich, and Liviu Giosan**

Towards understanding the physical oceanography of a sudden Black Sea in-fill 8400 years ago. *Paleoceanography*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10794**

**Smith, P. C., C. N. Flagg, R. Limeburner, C. Fuentes-Yaco, C. Hannah, R. C. Beardsley, and J. Irish**

Scotian shelf crossovers during winter/spring, 1999. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: AOPE.

**Stojanovic, M, L. Freitag, J. Leonard, and P. Newman**

A network protocol for multiple AUV localization. *Oceans '02*, IN PRESS.

Department of WHOI Author: AOPE.

**Sweeney, E. N., D. J. McGillicuddy, and K. O. Buesseler**

Biogeochemical impacts due to mesoscale eddy activity in the Sargasso Sea as measured at the Bermuda Atlantic Time Series (BATS) site. *Deep-Sea Res.II*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10791**

**Thomas, Rebecca E.**

Whistle usage during agonistic and affiliative interactions of the bottlenose dolphin, *Tursiops truncatus*. *Mar.Mamm.Sci.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10689**

**Trowbridge, John and Yogi Agrawal**

A two-spot sensor for measurement of dissipation by mean of laser-Doppler velocimetry. *J.Atmos.Ocean.Technol.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10844**

**Von Damm, K. L., M. D. Lilley, W. C. Shanks, et al.**

Extraordinary phase separation and segregation in vent fluids from the southern East Pacific Rise. *Earth Planet.Sci.Lett.*, IN PRESS.

Department of WHOI Author: MCG.

**Watkins, William A., Mary Ann Daher, Joseph E. George, and David Rodriguez**

Whale-like calls from unique source tracked over 10 years in the North Pacific.

*Oceanography*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10687**

**Weller, Robert A., Frank Bradley, and Roger Lukas**

The interface of air-sea flux component of the TOGA coupled ocean-atmosphere response experiment and its impact of future air-sea interaction studies. *J.Atmos.Ocean.Technol.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10790**

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