



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles Received in April 2003

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Bach, Wolfgang, Bernhard Peucker-Ehrenbrink, Stanley R. Hart, and Jerzy S. Blusztajn

Geochemistry of hydrothermally altered oceanic crust: DSDP/ODP Hole 504B - Implications for seawater-crust exchange budgets and Sr- and Pb-isotopic evolution of the mantle.

Geochem. Geophys. Geosyst., 4,8904,doi:10.1029/2002GC000419, 2003.

Department of WHOI Author: MCG. GEOL.

Contribution Number: **10801**

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

Open ocean aquaculture engineering. *Oceans '02*, :111-120, 2002.

Department of WHOI Author: AOPE.

Bartol, Ian K., Morteza Gharib, Daniel Weihs, Paul W. Webb, Jay R. Hove, and Malcolm S. Gordon

Hydrodynamic stability of swimming in ostraciid fishes: Role of the carapace in the smooth trunkfish *Lactophrys triqueter* (Teleostei: Ostraciidae). *J.Exp.Biol.*, 206:725-744, 2003.

Department of WHOI Author: AOPE.

Bartol, Ian K., Malcolm S. Gordon, Morteza Gharib, Jay R. Hove, Paul W. Webb, and Daniel Weihs

Flow patterns around the carapaces of rigid-bodied, multi-propulsor boxfishes (Teleostei: Ostraciidae). *Integr.Comp.Biol.*, 42:971-980, 2002.

Department of WHOI Author: AOPE.

Buesseler, Ken O., Richard T. Barber, Mary-Lynn Dickson, Michael R. Hiscock, Jefferson Keith Moore, and Raymond Sambrotto

The effect of marginal ice-edge dynamics on production and export in the Southern Ocean along 170°W. *Deep-Sea Res. II*, 50:579-603, 2003.

Department of WHOI Author: MCG.

Contribution Number: **10723**

Canales, J. Pablo, Robert S. Detrick, Douglas R. Toomey, and William S. D. Wilcock

Segment-scale variations in the crustal structure of 150-300 kyr old fast spreading oceanic crust (East Pacific Rise, 8°15'N-10°5'N) from wide-angle seismic refraction profiles.

Geophys.J.Int., 152:766-794, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10825**

Chu, Dezhang, Kenneth G. Foote, and Lawrence C. Hufnagle, Jr.

Measurement of multibeam sonar directivity patterns. *Oceans '02*, :1411-1414, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10807**

Clift, Peter D., John F. Dewey, Amy E. Draut, and Maria Mange

Discussion of 'Buried oblique-slip faults in the Irish Caledonides' by D. M. Williams. *Geol.J.*, 38:99-100, 2003.

Department of WHOI Author: GEOL.

Costello, Christopher J., and Andrew R. Solow

On the pattern of discovery of introduced species. *Proc.Natl.Acad.Sci.U.S.A.*, 100(6):3321-3323, 2003.

Department of WHOI Author: MPC.

Contribution Number: **10685**

Doherty, Kenneth W., Terence R. Hammar, and Kenneth G. Foote

Transducer mounting and rotating system for calibrating sonars in a sea well. *Oceans '02*, :1407-1410, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10805**

Dyhrman, Sonya T., and Donald M. Anderson

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

Limnol.Oceanogr., 48:647-655, 2003.

Department of WHOI Author: BIO.

Contribution Number: **10679**

Eustice, Ryan, Oscar Pizarro, Hanumant Singh, and Jonathan Howland

UWIT: Underwater image toolbox for optical image processing and mosaicking in MATLAB.

In: *Underwater Technology, 2002 International Symposium, 16-19 April 2002, Tokyo, Japan*. Piscataway, NJ: IEEE, 5 pp., 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10640**

Freed, Andrew M., and Jian Lin

Delayed triggering of the 1999 Hector Mine earthquake by viscoelastic stress transfer. *Nature*, 411:180-183, 2001.

Department of WHOI Author: GEOL.

Contribution Number: **10308**

Fries, J. Stephen, and John H. Trowbridge

Flume observations of enhanced fine-particle deposition to permeable sediment beds.

Limnol.Oceanogr., 48(2):802-812, 2003.

Department of WHOI Author: AOPE.

Contribution Number: **10674**

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Design and operation of a long-duration mooring for ocean observations. *Oceans '02*, :78-84, 2002.

Department of WHOI Author: PO. AOPE.

Hansell, Dennis, and Dennis J. McGillicuddy, Jr.

S202: Coordinating long-term time-series studies in the southwest North Atlantic. *US JGOFS News*, 11(2):5-6, 2001.

Department of WHOI Author: AOPE.

Hare, Jonathan A., James H. Churchill, Robert K. Cowen, Thomas J. Berger, Peter C. Cornillon, Paul Dragos, Scott M. Glenn, John J. Govoni, and Thomas N. Lee

Routes and rates of larval fish transport from the southeast to the northeast United States continental shelf. *Limnol.Oceanogr.*, 47(6):1774-1789, 2002 and

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Contribution Number: **10372**

Hart, Constance A., Ian C. T. Nisbet, Sean W. Kennedy, and Mark E. Hahn

Gonadal feminization and halogenated environmental contaminants in common terns (*Sterna hirundo*): Evidence that ovotestes in male embryos do not persist to the pre fledgling stage.

Ecotoxicology, 12:125-140, 2003.

Department of WHOI Author: BIO.

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Hoefel, Fernanda, and Steve Elgar

Wave-induced sediment transport and sandbar migration. *Science*, 299:1885-1887, 2003.

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Jones, Alan G., and Xavier Garcia

Okak Bay AMT data-set case study: Lessons in dimensionality and scale. *Geophysics*, 68(1):70-91, 2003.

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Kenna, Timothy C.

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Department of WHOI Author: MCG.

Contribution Number: **10830**

Lentz, Steven J., Steve Elgar, and R. T. Guza

Observations of the flow field near the nose of a buoyant coastal current. *J.Phys.Oceanogr.*, 33:933-943, 2003.

Department of WHOI Author: PO. AOPE.

Contribution Number: **10748**

Lozier, M. Susan, Mark S. C. Reed, and Glen G. Gawarkiewicz

Instability of a shelfbreak front. *J.Phys.Oceanogr.*, 32:924-944, 2002.

Department of WHOI Author: PO.

McDonald, Glenn, and Matt Naiman

Heat-transfer advances for submerged oceanographic systems. *Oceans '02*, :2045-2049, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10777**

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

A remote monitoring system for open ocean aquaculture. *Oceans '02*, :2488-2496, 2002.

Department of WHOI Author: AOPE.

Morrison, Archie T., III, Albert J. Williams, III, Andrew C. Waterbury, and Colin M. Tierney
Analog output from a differential travel-time current meter. *Oceans '02*, :708-712, 2002.
Department of WHOI Author: AOPE.
Contribution Number: **10775**

Oleksiak, Marjorie F., Shu Wu, Carol Parker, Wei Qu, Rachel Cox, Darryl C. Zeldin, and John J. Stegeman
Identification and regulation of a new vertebrate cytochrome P450 subfamily, the CYP2Ps, and functional characterization of CYP2P3, a conserved arachidonic acid epoxygenase/19-hydroxylase. *Arch.Biochem.Biophys.*, 411:223-234, 2003.
Department of WHOI Author: BIO.

Oppo, D. W., B. K. Linsley, Y. Rosenthal, S. Dannenmann, and L. Beaufort
Orbital and suborbital climate variability in the Sulu Sea, western tropical Pacific. *Geochem.Geophys.Geosys.*, 4,1003,doi:10.1029/2001GC000260, 2003.
Department of WHOI Author: GEOL.
Contribution Number: **10742**

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Deepwater variability in the Holocene epoch. *Nature*, 422:277-278, 2003.
Department of WHOI Author: GEOL.
Contribution Number: **10872**

Peucker-Ehrenbrink, Bernhard, and Mark W. Miller
Quantitative bedrock geology of Alaska and Canada. *Geochem.Geophys.Geosyst.*, 4,8005,doi:10.1029/2002GC000449, 2003.
Department of WHOI Author: MCG.
Contribution Number: **10862**

Proshutinsky, A., R. H. Bourke, and F. A. McLaughlin
The role of the Beaufort Gyre in Arctic climate variability: Seasonal to decadal climate scales. *Geophys.Res.Lett.*, 29(23),2100,doi:10.1029/2002GL015847, 2002.
Department of WHOI Author: PO.
Contribution Number: **10756**

Rognstad, Mark R., and Matthew Naiman
Improved signal processing and data acquisition electronics for the DSL-120. *Oceans '02*, :2264-2267, 2002.
Department of WHOI Author: AOPE.

Sheremet, Vitalii

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Department of WHOI Author: PO.

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

A network protocol for multiple AUV localization. *Oceans '02*, :604-611, 2002.

Department of WHOI Author: AOPE.

Thwaites, F. T., and C. S. Davis

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Contribution Number: **10778**

Waelbroeck, C., L. Labeyrie, E. Michel, J. C. Duplessy, J. F. McManus, K. Lambeck, E. Balbon, and M. Labracherie

Sea-level and deep water temperature changes derived from benthic foraminifera isotopic records. *Quat.Sci.Rev.*, 21:295-305, 2002.

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Weinstock, E. M., and E. Hints

Observations for chemistry (in situ): Water vapor sondes. In: *Encyclopedia of Atmospheric Sciences*. James R. Holton, John Pyle, and Judith A. Curry, eds. London: Academic Press, :1490-1499, 2003.

Department of WHOI Author: MCG.

Wiebe, Peter H., and Mark C. Benfield

From the Hensen net toward four-dimensional biological oceanography. *Prog.Oceanogr.*, 56:7-136, 2003.

Department of WHOI Author: BIO.

Contribution Number: **10660**

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Pipe MAVs, a deep-ocean flowmeter. *Oceans '02*, :713-717, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10774**

Williams, Albert J., III

Intercomparison of MAVS with VACM, VMCM, FSI 2-D, and Aanderaa RCM 11 current meters from a mooring. *Oceans '02*, :730-735, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10800**

Wong, Annie S., Gregory C. Johnson, and W. Brechner Owens

Delayed-mode calibration of autonomous CTD profiling float salinity data by θ - S climatology. *J.Atmos.Oceanic Technol.*, 20:308-318, 2003.

Department of WHOI Author: PO.

Contribution Number: **10525**

Yoerger, Dana R., Pamela G. Murray, and Fritz Stahr

Estimating the vertical velocity of buoyant deep-sea hydrothermal plumes through dynamic analysis of an autonomous vehicle. In: *IEEE/RSJ International Conference on Intelligent Robots and Systems, 2001*, :1794-1802, 2001.

Department of WHOI Author: AOPE.

Contribution Number: **10414**

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