



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles Received in May 2003

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Aubry, Marie-Pierre, John Van Couvering, William A. Berggren, and Fredrich Steininger

Should the golden spike glitter? *Episodes*, 23(3):203-210, 2000.

Department of WHOI Author: GEOL.

Contribution Number: **10253**

Bower, Amy S., Nuno Serra, and Isabel Ambar

Structure of the Mediterranean Undercurrent and Mediterranean Water spreading around the southwestern Iberian Peninsula. *J.Geophys.Res.*, 107(C10),3161,doi:10.1029/2001JC001007, 2002.

Department of WHOI Author: PO.

Contribution Number: **10480**

Bradley, A. M., A. R. Duester, S. P. Liberatore, and D. R. Yoerger

Extending the endurance of an operational scientific AUV using lithium-ion batteries. In: *Proceedings UUVS (Unmanned Underwater Vehicle Showcase) 2000 Conference*. London: Spearhead Publications, 9 pp., 2000.

Department of WHOI Author: AOPE.

Contribution Number: **10292**

Chapman, David C.

Separation of an advectively trapped buoyancy current at a bathymetric bend. *J.Phys.Oceanogr.*, 33:1108-1121, 2003.

Department of WHOI Author: PO.

Contribution Number: **10803**

Cho, Yang-Ki, Robert C. Beardsley, and Vitalii A. Sheremet

On the cause of Scotian shelf water crossovers. *Geophys.Res.Lett.*,
29(24),2212,doi:10.1029/2002GL014968, 2002.

Department of WHOI Author: PO.

Chu, Dezhang, J. Michael Jech, and Andone Lavery

Inference of geometrical and behavioural parameters of individual fish from echo-trace-analysis.
Deep-Sea Res.I, 50:515-527, 2003.

Department of WHOI Author: AOPE.

Contribution Number: **10708**

Clift, Peter, Jian Lin, and Udo Barckhausen

Evidence of low flexural rigidity and low viscosity lower continental crust during continental
break-up in the South China Sea. *Mar.Pet.Geol.*, 19:951-970, 2002.

Department of WHOI Author: GEOL.

Contribution Number: **10814**

Clift, Peter D., Amy E. Draut, Robyn Hannigan, Graham Layne, and Jerzy Blusztajn

Trace elements and Pb isotopic constraints on the provenance of the Rosroe and Derryveeny
formations, South Mayo, Ireland. *Trans.R.Soc.Edinb., Earth Sci.*, 93:101-110, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10819**

Clift, Peter D., Andrew Carter, Michael Krol, and Eric Kirby

Constraints on India-Eurasia collision in the Arabian Sea region taken from the Indus group,
Ladakh Himalaya, India. In: *Tectonic and Climatic Evolution of the Arabian Sea Region*.
P.D. Clift, D. Kroon, C. Gaedicke, and J. Craig, eds. London: The Geological Society, :97-
116, 2002.

Department of WHOI Author: GEOL.

Contribution Number: **10630**

Doherty, K. W., C. D. Taylor, and O. C. Zafiriou

Design of a multi-purpose titanium bottle for uncontaminated sampling of carbon monoxide and
potentially of analytes. *Deep-Sea Res.I*, 50:449-455, 2003.

Department of WHOI Author: AOPE. BIO.

Contribution Number: **10465**

Duda, Timothy F., and Chris R. Rehmann

Systematic microstructure variability in double-diffusively stable coastal waters of nonuniform density gradient. *J.Geophys.Res.*, 107(C10),3144,doi:10.1029/2001JC000844, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10515**

Edwards, Katrina J., Wolfgang Bach, and Daniel R. Rogers

Geomicrobiology of the ocean crust: A role for chemoautotrophic Fe-bacteria. *Biol.Bull.*, 204:180-185, 2003.

Department of WHOI Author: MCG.

Contribution Number: **10876**

Elder, Robert L., Brent G. Huntington, and George T. Kotula

State-of-the-art telemetry upgrade for the ROV Jason. In: *Oceanology International 2002, London, March 5-8, 2002*, 10 pp., 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10613**

Foote, Kenneth G.

Pilot census of marine life in the Gulf of Maine: contributions of technology. *Oceanol.Acta*, 25:213-218, 2003.

Department of WHOI Author: AOPE.

Contribution Number: **10681**

Freitag, Lee, Milica Stojanovic, Matthew Grund, and Sandipa Singh

Acoustic communication for regional undersea observatories. In: *Oceanology International 2002, London, March 5-8, 2002*, 10 pp., 2002.

Department of WHOI Author: AOPE.

Fryinger, Glenn S., Richard B. Gaines, Li Xu, and Christopher M. Reddy

Resolving the unresolved complex mixture in petroleum-contaminated sediments.

Environ.Sci.Technol., 37:1653-1662, 2003.

Department of WHOI Author: MCG.

Contribution Number: **10834**

Gast, Rebecca J., David J. Beaudoin, and David A. Caron

Isolation of symbiotically expressed genes from the dinoflagellate symbiont of the solitary radiolarian, *Thalassicolla nucleata*. *Biol.Bull.*, 204:210-214, 2003.

Department of WHOI Author: BIO.

Contribution Number: **10815**

Greaves, Robert J., and Ralph A. Stephen

The influence of large-scale seafloor slope and average bottom sound speed on low-grazing-angle monostatic acoustic scattering. *J.Acoust.Soc.Am.*, 113(5):2548-2561, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10447**

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.*, 193:295-314, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10796**

Howarth, Robert, Donald Anderson, James Cloern, Chris Elfring, Charles Hopkinson, Brian Lapointe, Tom Malone, Nancy Marcus, Karen McGlathery, Andrew Sharpley, and Dan Walker

Nutrient pollution of coastal rivers, bays, and seas. *Issues Ecol.*, 7:2-15, 2000.

Department of WHOI Author: BIO.

Huang, Rui Xin, and Fei Fei Jin

The asymmetric nature of the Equatorial Undercurrent in the Pacific and Atlantic.

J.Phys.Oceanogr., 33:1083-1094, 2003.

Department of WHOI Author: PO.

Contribution Number: **10560**

Lentz, Steve, Kipp Shearman, Steve Anderson, Al Plueddemann, and Jim Edson

Evolution of stratification over the New England shelf during the coastal mixing and optics study, August 1996 - June 1997. *J.Geophys.Res.*, 108(C1),3008,doi:10.1029/2001JC001121, 2003.

Department of WHOI Author: PO. AOPE.

Contribution Number: **10524**

McElroy, Marguerite K., James B. Edson, Wade R. McGillis, Thomas Austin, and Michael J. Purcell

System architecture and operational issues of ocean observatories as exemplified by the Martha's Vineyard Coastal Observatory: a cabled platform for long-term studies. In:

Underwater Intervention 2002 Conference Proceedings, 8 pp., 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10590**

Raubenheimer, B.

Observations and predictions of fluid velocities in the surf and swash zones. *J.Geophys.Res.*, 107(C11),3190,doi:10.1029/2001JC001264, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10582**

Ravizza, G., and B. Peucker-Ehrenbrink

The marine $^{187}\text{OS}/^{188}\text{OS}$ record of the eocene-oligocene transition: The interplay of weathering and glaciation. *Earth Planet.Sci.Lett.*, 210:151-165, 2003.

Department of WHOI Author: MCG. GEOL.

Contribution Number: **10884**

Reddy, Christopher M., Timothy I. Eglinton, Aubrey Hounshell, Helen K. White, Li Xu, Richard B. Gaines, and Glenn S. Frysinger

Response to comment on "The West Falmouth oil spill after thirty years: The persistence of petroleum hydrocarbons in marsh sediments". *Environ.Sci.Technol.*, 37:2021, 2003.

Department of WHOI Author: MCG.

Richardson, P. L., and S. L. Garzoli

Characteristics of intermediate water flow in the Benguela current as measured with RAFOS floats. *Deep-Sea Res.II*, 50:87-118, 2003.

Department of WHOI Author: PO.

Contribution Number: **10576**

Schmid, C., O. Boebel, W. Zenk, J. R. E. Lutjeharms, S. L. Garzoli, P. L. Richardson, and C. Barron

Early evolution of an Agulhas Ring. *Deep-Sea Res.II*, 50:141-166, 2003.

Department of WHOI Author: PO.

Shank, Timothy M., and Joel W. Martin

A new caridean shrimp of the family Alvinocarididae from thermal vents at Menez Gwen on the Mid-Atlantic Ridge. *Proc.Biol.Soc.Wash.*, 116(1):158-167, 2003.

Department of WHOI Author: BIO.

Contribution Number: **10700**

Spall, Michael A.

On the thermohaline circulation in flat bottom marginal seas. *J.Mar.Res.*, 61:1-25, 2003.

Department of WHOI Author: PO.

Contribution Number: **10808**

St. Laurent, L. C., H. L. Simmons, and S. R. Jayne

Estimating tidally driven mixing in the deep ocean. *Geophys.Res.Lett.*, 29(23),2106,doi:10.1029/2002GL015633, 2002.

Department of WHOI Author: PO.

Contribution Number: **10752**

Stojanovic, Gordana, Radosav Palic, Carly H. Tarr, Christopher M. Reddy, and Olivera Marinkovic

n-alkanes and fatty acids of *Hypericum perforatum*, *Hypericum maculatum* and *Hypericum olympicum*. *Biochem.Syst.Ecol.*, 31:223-226, 2003.

Department of WHOI Author: MCG.

Contribution Number: **10627**

Swift, Stephen A., and Amy S. Bower

Formation and circulation of dense water in the Persian/Arabian Gulf. *J.Geophys.Res.*, 108(C1),3004,doi:10.1029/2002JC001360, 2003.

Department of WHOI Author: GEOL. PO.

Contribution Number: **10625**

Treguier, A. M., N. G. Hogg, M. Maltrud, K. Speer, and V. Thierry

The origin of deep zonal flows in the Brazil Basin. *J.Phys.Oceanogr.*, 33:580-599, 2003.

Department of WHOI Author: PO.

Contribution Number: **10595**

Trowbridge, John, and Steve Elgar

Spatial scales of stress-carrying nearshore turbulence. *J.Phys.Oceanogr.*, 33:1122-1128, 2003.

Department of WHOI Author: AOPE.

Contribution Number: **10558**

Wahr, John M., Steven R. Jayne, and Frank O. Bryan

A method of inferring changes in deep ocean currents from satellite measurements of time-variable gravity. *J.Geophys.Res.*, 107(C12),3218,doi:10.1029/2001JC001274, 2002.

Department of WHOI Author: PO.

Contribution Number: **10741**

Warren, Bruce A., and Gregory C. Johnson

The overflows across the Ninetyeast Ridge. *Deep-Sea Res.II*, 49:1423-1439, 2002.

Department of WHOI Author: PO.

Contribution Number: **10316**

Wiebe, Peter H.

Basin-wide studies of zooplankton through observation and modeling: Synthesis of North Atlantic GLOBEC data sets. In: *Proceedings of the EuroOCEAN 2000, The European Conference on Marine Science and Ocean Technology, Hamburg, Germany, 29 August - 2 September 2000*. K.-G. Barthel et al., eds. Brussels: European Commission, :71-87, 2001.

Department of WHOI Author: BIO.

Contribution Number: **10436**

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