



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles Received in February 2004

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

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

*Geochim. Cosmochim. Acta*, 67:1129-1143, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10841**

[Link to online article](#)

**Arbic, Brian K., and Glenn R. Flierl**

Effects of mean flow direction on energy, isotropy, and coherence of baroclinically unstable beta-plane geostrophic turbulence. *J. Phys. Oceanogr.*, 34:77-93, 2004.

Department of WHOI Author: PO.

[Link to online article](#)

**Beet, Andrew, Andrew R. Solow, and Stephen M. Bollens**

Comparing vertical plankton profiles with replication. *Mar. Ecol. Prog. Ser.*, 262:285-287, 2003.

Department of WHOI Author: MPC.

[Link to online article](#)

**Behn, M. D., and P. B. Kelemen**

Relationship between seismic P-wave velocity and the composition of anhydrous igneous and meta-igneous rocks. *Geochem. Geophys. Geosyst.*, 4,1041,doi:10.1029/2002GC000393, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10780**

[Link to online article](#)

**Bhattacharya, Janok P., and Liviu Giosan**

Wave-influenced deltas: Geomorphological implications for facies reconstruction.

*Sedimentology*, 50:187-210, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10646**

[Link to online article](#)

**Cenedese, C., J. A. Whitehead, T. A. Ascarelli, and M. Ohiwa**

A dense current flowing down a sloping bottom in a rotating fluid. *J.Phys.Oceanogr.*, 34:188-203, 2004.

Department of WHOI Author: PO.

Contribution Number: **10804**

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**Conte, M. H., T. D. Dickey, J. C. Weber, R. J. Johnson, and A. H. Knap**

Transient physical forcing of pulsed export of bioreactive material to the deep Sargasso Sea.

*Deep-Sea Res.I*, 50:1157-1187, 2003.

Department of WHOI Author: MCG.

Contribution Number: **10895**

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**Cooper, Kari, Steven J. Goldstein, Kenneth W. W. Sims, and Michael T. Murrell**

Uranium-series chronology of Gorda Ridge volcanism: New evidence from the 1996 eruption.

*Earth Planet.Sci.Lett.*, 206:459-475, 2003.

Department of WHOI Author: GEOL.

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**deVeer, Joseph M., Amy Stout, and Margaret Rioux**

The MBLWHOI Library Digital Herbarium. In: *Navigating the Shoals: Evolving User Services in Aquatic and Marine Science Libraries*. James W. Markham and Andrea L.

Duda, eds. Fort Pierce, FL: IAMSLIC, :11-16, 2004.

Department of WHOI Author: ADMIN.

**Ferrari, Raffaele, and Paola Cessi**

Seasonal synchronization in a chaotic ocean-atmosphere model. *J.Climate*, 16:875-881, 2003.

Department of WHOI Author: PO.

Contribution Number: **10569**

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**Funck, Thomas, John R. Hopper, Hans Christian Larsen, Keith E. Loudon, Brian E. Tucholke, and W. Steven Holbrook**

Crustal structure of the ocean-continent transition at Flemish Cap: Seismic refraction results. *J.Geophys.Res.*, 108(B11),2531,doi:10.1029/2003JB002434, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **11000**

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**Georgen, Jennifer E., Mark D. Kurz, Henry J. B. Dick, and Jian Lin**

Low  $^3\text{He}/^4\text{He}$  ratios in basalt glasses from the western Southwest Indian Ridge (10°-24°E). *Earth Planet.Sci.Lett.*, 206:509-528, 2003.

Department of WHOI Author: GEOL. MCG.

Contribution Number: **10694**

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**Goto, Shusaku, Masataka Kinoshita, Adam Schultz, and Richard P. Von Herzen**

Estimate of heat flux and its temporal variation at the TAG hydrothermal mound, Mid-Atlantic Ridge 26°N. *J.Geophys.Res.*, 108(B9),2434,doi:10.1029/2001JB000703, 2003.

Department of WHOI Author: GEOL.

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**Hahn, Mark E., Sibel I. Karchner, Diana G. Franks, and Rebeka R. Merson**

Aryl hydrocarbon receptor polymorphisms and dioxin resistance in Atlantic killifish (*Fundulus heteroclitus*). *Pharmacogenetics*, 14:131-143, 2004.

Department of WHOI Author: BIO.

Contribution Number: **11007**

**Hamersley, M. Robert, and Brian L. Howes**

Contribution of denitrification to nitrogen, carbon and oxygen cycling in tidal creek sediments of a New England salt marsh. *Mar.Ecol.Prog.Ser.*, 262:55-69, 2003.

Department of WHOI Author: BIO.

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**Hamersley, M. Robert, Brian L. Howes, and David S. White**

Wetlands and aquatic processes. *J.Environ.Qual.*, 32:1895-1904, 2003.

Department of WHOI Author: BIO.

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**Han, Seon, and Mark Grosenbaugh**

Bending fatigue analysis of sea floor observatory moorings. In: *Proceedings of the 22nd International Conference on Offshore Mechanics & Arctic Engineering, Cancun, Mexico, 8-13 June, 2003*. New York, NY: ASME, 6 pp., 2003.

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**Han, Seon, and Mark Grosenbaugh**

Comparison of two seafloor observatory mooring designs. In: *Proceedings of the IUTAM Symposium on Integrated Modeling of Fully Coupled Fluid-Structure Interactions Using Analysis, Computations, and Experiments, June 1-6, 2003, New Brunswick, NJ*. Haym Benaroya and Timothy Wei, eds., Dordrecht: Kluwer Academic Publishers 11 pp., 2003.

Department of WHOI Author: AOPE.

**Haug, Gerald H., Detlef Gunther, Larry C. Peterson, Daniel M. Sigman, Konrad A. Hughen, and Beat Aeschlimann**

Climate and the collapse of Maya civilization. *Science*, 299:1731-1735, 2003.

Department of WHOI Author: MCG.

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**Herbers, T. H. C., Mark Orzech, Steve Elgar, and R. T. Guza**

Shoaling transformation of wave frequency-directional spectra. *J. Geophys. Res.*, 108(C1), 3013, doi:10.1029/2001JC001304, 2003.

Department of WHOI Author: AOPE.

Contribution Number: **10620**

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**Hinrichs, Kai-Uwe, Laura R. Hmelo, and Sean P. Sylva**

Molecular fossil record of elevated methane levels in late pleistocene coastal waters. *Science*, 299:1214-1217, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10847**

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**Hiscock, Michael R., John Marra, Walker O. Smith, Jr., Ralf Goericke, Chris Measures, Sue Vink, Robert J. Olson, Heidi M. Sosik, and Richard T. Barber**

Primary productivity and its regulation in the Pacific Sector of the Southern Ocean. *Deep-Sea Res. II*, 50:533-558, 2003.

Department of WHOI Author: BIO.

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**Hopper, John R., Thomas Funck, Brian E. Tucholke, Hans Christian Larsen, W. Steven Holbrook, Keith E. Loudon, Donna Shillington, and Helen Lau**

Continental breakup and the onset of ultraslow seafloor spreading off Flemish Cap on the Newfoundland rifted margin. *Geology*, 32:93-96, 2004.

Department of WHOI Author: GEOL.

Contribution Number: **10998**

**Isachsen, Pal E., J. H. LaCasce, C. Mauritzen, and S. Hakkinen**

Wind-driven variability of the large-scale recirculating flow in the Nordic seas and Arctic Ocean. *J.Phys.Oceanogr.*, 33:2354-2550, 2003.

Department of WHOI Author: PO.

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**Ito, G., J. Lin, and D. Graham**

Observational and theoretical studies of the dynamics of mantle plume-mid-ocean ridge interaction. *Rev.Geophys.*, 41,1017,doi:10.1029/2002RG000117, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10945**

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**Jones, Alan G., Pamela Lezaeta, Ian J. Ferguson, Alan D. Chave, Rob L. Evans, Xavier Garcia, and Jessica Spratt**

The electrical structure of the Slave craton. *Lithos*, 71:505-527, 2003.

Department of WHOI Author: AOPE. GEOL.

Contribution Number: **11023**

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**Lea, David W., Dorothy K. Pak, Larry C. Peterson, and Konrad A. Hughen**

Synchronicity of tropical and high-latitude Atlantic temperatures over the last glacial termination. *Science*, 301:1361-1364, 2003.

Department of WHOI Author: MCG.

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**Legg, Sonya**

Internal tides generated on a corrugated continental slope: Part I: Cross-slope barotropic forcing. *J.Phys.Oceanogr.*, 34:156-173, 2004.

Department of WHOI Author: PO.

Contribution Number: **10852**

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**Lilly, Jonathan M., Peter B. Rhines, Friedrich Schott, Kara Lavender, John Lazier, Uwe Send, and Eric D'Asaro**

Observations of the Labrador Sea eddy field. *Prog.Oceanogr.*, 59:75-176, 2003.

Department of WHOI Author: PO.

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**Mignucci-Giannoni, Antonio A., Steven L. Swartz, Anthony Martinez, Carolyn M. Burks, and William A. Watkins**

First records of the pantropical spotted dolphin (*Stenella attenuata*) for the Puerto Rican Bank, with a review of the species in the Caribbean. *Caribb.J.Sci.*, 39:381-392, 2003.

Department of WHOI Author: BIO.

**Morford, Jennifer, Linda Kalnejais, William Martin, Roger Francois, and Ida-Maja Karle**

Sampling marine pore waters for Mn, Fe, U, Re and Mo: Modifications on diffusional equilibration thin film gel probes. *J.Exp.Mar.Biol.Ecol.*, 285/286:85-103, 2003.

Department of WHOI Author: MCG.

Contribution Number: **10647**

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**Mourino, Beatriz, Emilio Fernandez, Helene Etienne, Fabrice Hernandez, and Sylvie Giraud**

Significance of cyclonic SubTropical Oceanic Rings of Magnitude (STORM) eddies for the carbon budget of the euphotic layer in the subtropical northeast Atlantic. *J.Geophys.Res.*, 108(C12),3383,doi:10.1029/2003JC001884, 2003.

Department of WHOI Author: AOPE.

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**Neubert, Michael G.**

Marine reserves and optimal harvesting. *Ecology Lett.*, 6:843-849, 2003.

Department of WHOI Author: BIO.

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**Parman, Stephen W., Nobumichu Shimizu, Timothy L. Grove, and Jesse C. Dann**

Constraints on the pre-metamorphic trace element composition of Barberton komatiites from ion probe analyses of preserved clinopyroxene. *Contrib.Mineral Petrol.*, 144:383-396, 2003.

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**Polzin, Kurt**

A heuristic description of internal wave dynamics. *J.Phys.Oceanogr.*, 34:214-230, 2004.

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**Polzin, Kurt**

Idealized solutions for the energy balance of the finescale internal wavefield.

*J.Phys.Oceanogr.*, 34:231-246, 2004.

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**Polzin, Kurt, and Raffaele Ferrari**

Isopycnal dispersion in NATRE. *J.Phys.Oceanogr.*, 34:247-257, 2004.

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**Poulin, Francis J., G. R. Flierl, and J. Pedlosky**

Parametric instability in oscillatory shear flows. *J.Fluid Mech.*, 481:329-353, 2003.

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**Renner, Jorg, Karen Viskupic, Greg Hirth, and Brian Evans**

Melt extraction from partially molten peridotites. *Geochem.Geophys.Geosyst.*, 4,8606,doi:10.1029/2002GC000369, 2003.

Department of WHOI Author: GEOL.

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**Richardson, P. L., J. R. E. Lutjeharms, and O. Boebel**

Introduction to the "inter-ocean exchange around South Africa". *Deep-Sea Res.II*, 50:1-12, 2003.

Department of WHOI Author: PO.

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**Shah, Anjana K., Marie-Helene Cormier, William B. F. Ryan, Wen Jin, John Sinton, Eric Bergmanis, Julie Carlut, Al Bradley, and Dana Yoerger**

Episodic dike swarms inferred from near-bottom magnetic anomaly maps in the southern East Pacific Rise. *J.Geophys.Res.*, 108(B2),2097,doi:10.1029/2001JB000564, 2003.

Department of WHOI Author: AOPE.

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**Sinton, John, Robert Detrick, J. Pablo Canales, Garrett Ito, and Mark Behn**

Morphology and segmentation of the Western Galapagos spreading center, 90.5°-98°W: Plume-ridge interaction at an intermediate spreading ridge. *Geochem.Geophys.Geosyst.*, 4,8515,doi:10.1029/2003GC000609, 2003.

Department of WHOI Author: GEOL.

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**Smith, Deborah K., Javier Excartin, Mathilde Cannat, Maya Tolstoy, Christopher G. Fox, DelWayne R. Bohnenstiehl, and Sara Bazin**

Spatial and temporal distribution of seismicity along the northern Mid-Atlantic Ridge (15°-35°N). *J.Geophys.Res.*, 108(B3),2167,doi:10.1029/2003GL017477, 2003.

Department of WHOI Author: GEOL.

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**Stephen, Ralph A., Junzo Kasahara, Gary D. Acton, and the Leg 200 Scientific Party**

ODP Leg 200: Drilling at the Hawaii-2 Observatory (H2O) and Nuuanu Landslide. *JOIDES J.*, 28(2):18-23, 2002.

Department of WHOI Author: GEOL.

**Traykovski, Peter, and John A. Goff**

Observations and modeling of large and small scale bedforms at the Martha's Vineyard Coastal Observatory. In: *Coastal Sediments 2003, Proceedings of the International Conference, Clearwater Beach, Florida, 18-23 May 2003*. Richard A Davis, Asbury Sallenger, and Peter Howd, eds. River Edge, NJ: World Scientific Publishing, 14 pp., 2003.

Department of WHOI Author: AOPE.



**Von Damm, K. L., M. D. Lilley, W. C. Shanks, III, M. Brockington, A. M. Bray, K. M. O'Grady, E. Olson, A. Graham, G. Proskurowski, and the SouEPR Science Party**

Extraordinary phase separation and segregation in vent fluids from the southern East Pacific Rise. *Earth Planet.Sci.Lett.*, 206:365-378, 2003.

Department of WHOI Author: MCG.

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**Wage, Kathleen E., Arthur B. Baggeroer, and James C. Preisig**

Modal analysis of broadband acoustic receptions at 3515-km range in the North Pacific using short-time Fourier techniques. *J.Acoust.Soc.Am.*, 113:801-817, 2003.

Department of WHOI Author: AOPE.

Contribution Number: **10445**

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**Whitcomb, Louis L., Jonathan C. Howland, David A. Smallwood, Dana R. Yoerger, and Timothy E. Thiel**

A new control system for the next generation of US and UK deep submergence oceanographic ROVs. In: *Proceedings of IFAC Workshop on Guidance and Control of Underwater Vehicles, 9-11 April 2003, Newport, UK*, 7 pp., 2003.

Department of WHOI Author: AOPE.

**Yu, Lisan, Robert A. Weller, and Bomin Sun**

Improving latent and sensible heat flux estimates for the Atlantic Ocean (1988-1999) by a synthesis approach. *J.Climate*, 7:373-393, 2004.

Department of WHOI Author: PO.

Contribution Number: **10961**

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