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## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles Received in April 2004

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**Aguilar, Jean-Pierre, William A. Berggren, Marie-Pierre Aubry, Dennis V. Kent, Georges Clauzon, Mouloud Benammi, and Jacques Michaux**

Mid-neogene Mediterranean marine-continental correlations: An alternative interpretation. *Palaeogeogr.Palaeoclimatol.Palaeoecol.*, 204:165-186, 2004, doi: 10.1016/S0031-0182(03)00734-X.

[Link to online article](#)

Department of WHOI Author: GEOL.

Contribution Number: **11010**

**Behn, Mark D., John M. Sinton, and Robert S. Detrick**

Effect of the Galapagos hotspot on seafloor volcanism along the Galapagos Spreading Center (90.9°-97.6°W). *Earth Planet.Sci.Lett.*, 217:331-347, 2004, doi: 10.1016/S0012-821X(03)00611-3.

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Department of WHOI Author: GEOL.

Contribution Number: **11042**

**Boettcher, M. S., and C. Marone**

Effects of normal stress variation on the strength and stability of creeping faults. *J.Geophys.Res.*, 109,B03406,doi:10.1029/2003JB002824, 2004, doi: 10.1029/2003JB002824.

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Department of WHOI Author: GEOL.

Contribution Number: **11032**

**Cenedese, Claudia, John Marshall, and John A. Whitehead**

A laboratory model of thermocline depth and exchange fluxes across circumpolar fronts. *J.Phys.Oceanogr.*, 34:656-667, 2004, doi: 10.1175/2508.1.

[Link to online article](#)

Department of WHOI Author: PO.

Contribution Number: **10887**

**Dahl, Kristina A., Daniel J. Repeta, and R. Goericke**

Reconstructing the phytoplankton community of the Cariaco Basin during the Younger Dryas cold event using chlorin steryl esters. *Paleoceanography*, 19,PA1006,doi:10.1029/2003PA000907, 2004, doi: 10.1029/2003PA000907.

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Department of WHOI Author: GEOL. MCG.

**de Muizon, Christian, Daryl P. Domming, and Darlene R. Ketten**

*Odobenocetops peruvianus*, the walrus-convergent delphinoid (Mammalia: cetacea) from the early Pliocene of Peru. *Smithson.Contrib.Paleobiol.*, 93:223-261, 2002.

Department of WHOI Author: BIO.

**Donnelly, Jeffrey P., Peter Cleary, Paige Newby, and Robert Ettinger**

Coupling instrumental and geological records of sea-level change: Evidence from southern New England of an increase in the rate of sea-level rise in the late 19th century. *Geophys.Res.Lett.*, 31,L05203, doi:10.1029/2003GL018933, 2004, doi: 10.1029/2003GL018933.

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Department of WHOI Author: GEOL.

Contribution Number: **11072**

**Duda, Timothy F.**

Acoustic mode coupling by nonlinear internal wave packets in a shelfbreak front area. *IEEE J.Oceanic Eng.*, 29:118-125, 2004, doi: 10.1109/JOE.2003.822975.

[Link to online article](#)

Department of WHOI Author: AOPE.

Contribution Number: **10926**

**Garabato, Alberto C. N., Kurt L. Polzin, Brian A. King, Karen J. Heywood, and Martin Visbeck**

Widespread intense turbulent mixing in the Southern Ocean. *Science*, 303:210-213, 2004, doi: 10.1126/science.1090929.

[Link to online article](#)

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**Gast, Rebecca J., Mark R. Dennett, and David A. Caron**

Characterization of protistan assemblages in the Ross Sea, Antarctica by denaturing gradient gel electrophoresis. *Appl.Environ.Microbiol.*, 70:2028-2037, 2004, doi: 10.1128/AEM.70.4.2028-2037.2004.

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Department of WHOI Author: BIO.

Contribution Number: **11028**

**Geels, C., S. C. Doney, R. Dargaville, J. Brandt, and J. H. Christensen**

Investigating the sources of synoptic variability in atmospheric CO<sub>2</sub> measurements over the Northern Hemisphere continents: A regional model study. *Tellus*, 56B:35-50, 2004, doi: 10.1111/j.1600-0889.2004.00084.x.

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Contribution Number: **10948**

**Hirth, Greg**

Laboratory constraints on the rheology of the upper mantle. In: *Plastic Deformation of Minerals and Rocks*. S. Karato and H. R. Wenk, eds. Washington, DC : Mineralogical Society of America, :97-120, 2002.

Department of WHOI Author: GEOL.

**Huang, Rui Xin**

Ocean, energy flows in. In: *Encyclopedia of Energy*. Cutler J. Cleveland, ed. San Diego, CA: Elsevier, 4:497-509, 2004.

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**Li, Aibing, and Robert S. Detrick**

Azimuthal anisotropy and phase velocity beneath Iceland: Implication for plume-ridge interaction. *Earth Planet.Sci.Lett.*, 214:153-165, 2003, doi: 10.1016/S0012-821X(03)00382-0.

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**Li, Xingwen, and Carl Wunsch**

An adjoint sensitivity study of chlorofluorocarbons in the North Atlantic. *J.Geophys.Res.*, 109,C01007, doi:10.1029/2003JC002014, 2004, doi: 10.1029/2003JC002014.

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**Licciardi, Joseph M., Peter U. Clark, Edward J. Brook, David Elmore, and Pankaj Sharma**

Variable responses of western U.S. glaciers during the last deglaciation. *Geology*, 32:81-84, 2004, doi: 10.1130/G19868.1.

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Contribution Number: **10579**

**Luning, S., S. Kolonic, E. M. Belhadj, Z. Belhadj, L. Cota, G. Baric, and T. Wagner**

Integrated depositional model for the Cenomanian–Turonian organic-rich strata in North Africa. *Earth-Sci.Rev.*, 64:51-117, 2004, doi: 10.1016/S0012-8252(03)00039-4.

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**Martin, Gretchen Bath, Simon R. Thorrold, and Cynthia M. Jones**

Temperature and salinity effects on strontium incorporations in otoliths of larval spot (*Leiostomus xanthurus*). *Can.J.Fish.Aquat.Sci.*, 61:34-42, 2004, doi: 10.1139/F03-143.

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Department of WHOI Author: BIO.

**Martins, Claudia A., David Kulis, Susana Franca, and Donald M. Anderson**

The loss of PSP toxin production in a formerly toxic *Alexandrium lusitanicum* clone. *Toxicon*, 43:195-205, 2004, doi: 10.1016/j.toxicon.2003.11.023.

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**Noyes, T. James, R. T. Guza, Steve Elgar, and T. H. C. Herbers**

Field observations of shear waves in the surf zone. *J.Geophys.Res.*, 109,C01031, doi:10.1029/2002JC001761, 2004, doi: 10.1029/2002JC001761.

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Department of WHOI Author: AOPE.

**Parekh, Payal, Michael J. Follows, and Edward Boyle**

Modeling the global ocean iron cycle. *Glob.Biogeochem.Cycles*, 18,GB1002, doi:10.1029/2003GB002061, 2004, doi: 10.1029/2003GB002061.

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Department of WHOI Author: MCG.

**Paul, Walter, Doug Bentley, Mark Chaffey, and Dan Frye**

Electrical and electro-optical mooring links for buoy based ocean observatories. In: *Proceedings of SSC03 (Scientific Submarine Cable 2003) Workshop, 3rd International Workshop on Scientific Use of Submarine Cables and Related Technologies, June 24-27, 2003, Tokyo, Japan*, :201-206, 2003.

Department of WHOI Author: AOPE.

**Peucker-Ehrenbrink, Bernhard, and Mark W. Miller**

Quantitative bedrock geology of east and southeast Asia (Brunei, Cambodia, eastern and southeastern China, East Timor, Indonesia, Japan, Laos, Malaysia, Myanmar, North Korea, Papua New Guinea, Philippines, far-eastern Russia, Singapore, South Korea, Taiwan, Thailand, Vietnam). *Geochem.Geophys.Geosyst.*, 5,Q01B06, doi:10.1029/2003GC000619, 2004, doi: 10.1029/2003GC000619.

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Department of WHOI Author: MCG.

Contribution Number: **11046**

**Polyak, Leonid, William B. Curry, Dennis A. Darby, Jens Bischof, and Thomas M. Cronin**

Contrasting glacial/interglacial regimes in the western Arctic Ocean as exemplified by a sedimentary record from the Mendeleev Ridge. *Palaeogeogr.Palaeoclimatol.Palaeoecol.*, 203:73-93, 2004, doi: 10.1016/S0031-0182(03)00661-8.

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Contribution Number: **11002**

**Rauch, Sebastien, Harold F. Hemond, and Bernhard Peucker-Ehrenbrink**

Recent changes in platinum group element concentrations and osmium isotopic composition in sediments from an urban lake. *Environ.Sci.Technol.*, 38:396-402, 2004, doi: 10.1021/es0347686.

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Department of WHOI Author: MCG.

**Rauch, Sebastien, Harold F. Hemond, and Bernhard Peucker-Ehrenbrink**

Source characterisation of atmospheric platinum group elements deposition into an ombrotrophic peat bog. *J.Environ.Monitoring*, 6:335-343, 2004, doi: 10.1039/b316547g.

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Contribution Number: **11105**

**Reddy, Christopher M., Li Xu, Gregory W. O'Neil, Robert K. Nelson, Timothy I. Eglinton, D. John Faulkner, Ross Norstrom, Peter S. Ross, and Sheryl A. Tittlemier**

Radiocarbon evidence for a naturally produced, bioaccumulating halogenated organic compound. *Environ.Sci.Technol.*, 38:1992-1997, 2004, doi: 10.1021/es030568i.

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Department of WHOI Author: MCG.

Contribution Number: **11097**

**Straub, S. M., G. D. Layne, A. Schmidt, and C. H. Langmuir**

Volcanic glasses at the Izu arc volcanic front: New perspectives on fluid and sediment melt recycling in subduction zones. *Geochem.Geophys.Geosyst.*, 5,Q01007, doi:10.1029/2002GC000408, 2004, doi: 10.1029/2002GC000408.

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Department of WHOI Author: GEOL.

**Suga, Toshio, Kazunori Motoki, Aoki Yoshikazu, and Alison M. Macdonald**

The North Pacific climatology of winter mixed layer and mode waters. *J.Phys.Oceanogr.*, 34:3-22, 2004, doi: 10.1175/1520-0485(2004)034<0003:TNPCOW>2.0.CO;2.

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**Uchupi, Elazar**

The Stellwagen Bank region off eastern Massachusetts: A Wisconsin glaciated Cenozoic sand bank/delta?. *Mar.Geol.*, 204:325-347, 2004, doi: 10.1016/S0025-3227(04)00003-9.

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