



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles Received in August 2004

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**Abbot, P., S. Celuzza, I. Dyer, B. Gomes, J. Fulford, and J. Lynch**

Effects of East China Sea shallow water environment on acoustic propagation. *IEEE J.Oceanic Eng.*, 28:192-211, 2003, doi: 10.1109/JOE.2003.811901.

[Link to online article](#)

Department of WHOI Author: AOPE.

**Angell, Carolyn Miller, Joanna Y. Wilson, Michael J. Moore, and John J. Stegeman**

Cytochrome P450 1A1 expression in cetacean integument: Implications for detecting contaminant exposure and effects. *Mar.Mamm.Sci.*, 20:554-566, 2004.

Department of WHOI Author: BIO.

Contribution Number: **10921**

**Ashjian, Carin J., Robert G. Campbell, Harold E. Welch, Mari Butler, and Donna Van Keuren**

Annual cycle in abundance, distribution, and size in relation to hydrography of important copepod species in the Western Arctic Ocean. *Deep-Sea Res.I*, 50:1235-1261, 2003, doi: 10.1016/S0967-0637(03)00129-8.

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Department of WHOI Author: BIO.

Contribution Number: **10964**

**Baines, A. Graham, Michael J. Cheadle, Henry J. B. Dick, Allegra Hosford Scheirer, Barbara E. John, Nick J. Kuszniir, and Takeshi Matsumoto**

Mechanism for generating the anomalous uplift of oceanic-core complexes: Atlantis Bank, southwest Indian Ridge. *Geology*, 31:1105-1108, 2003, doi: 10.1130/G19829.1.

[Link to online article](#)

Department of WHOI Author: GEOL.

**Band-Schmidt, Christine Johanna, Emily L. Lilly, and Donald M. Anderson**

Identification of *Alexandrium affine* and *A. margalefii* (Dinophyceae) using DNA sequencing and LSU rDNA-based RFLP-PCR assays. *Phycologia*, 42(3):261-268, 2003.

Department of WHOI Author: BIO.

Contribution Number: **10743**

**Becker, Kyle M., Subramaniam D. Rajan, and George V. Frisk**

Results from the Geoacoustic Inversion Techniques Workshop using modal inverse methods. *IEEE J.Oceanic Eng.*, 28:331-341, 2003, doi: 10.1109/JOE.2003.816676.

[Link to online article](#)

Department of WHOI Author: AOPE.

Contribution Number: **10690**

**Berg, Gry Mine, Daniel J. Repeta, and Julie LaRoche**

The role of picoeukaryote *Aureococcus anophagefferens* in cycling of marine high-molecular weight dissolved organic nitrogen. *Limnol.Oceanogr.*, 48:1825-1830, 2003.

Department of WHOI Author: MCG.

**Bernhard, Joan M., Jessica K. Blanks, Christopher J. Hintz, and G. Thomas Chandler**

Use of the fluorescent calcite marker calcein to label foraminiferal tests. *J.Foraminiferal Res.*, 34:96-101, 2004.

Department of WHOI Author: GEOL.

**Bonfils, Celine, Inez Fung, Scott Done y, and Jasmin John**

On the detection of summertime terrestrial photosynthetic variability from its atmospheric signature. *Geophys.Res.Lett.*, 31,L09207,doi:10.1029/2004GL019453, 2004, doi:

10.1029/2004GL019453.

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Department of WHOI Author: MCG.

Contribution Number: **11077**

**Canales, J. P., B. E. Tucholke, and J. A. Collins**

Seismic reflection imaging of an oceanic detachment fault: Atlantis megamullion (Mid-Atlantic Ridge, 30°10'N). *Earth Planet.Sci.Lett.*, 222:543-560, 2004, doi:

10.1016/j.epsl.2004.02.023.

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Department of WHOI Author: GEOL.

Contribution Number: **11087**

**Caswell, Hal, and Takenori Takada**

Elasticity analysis of density-dependent matrix population models: The invasion exponent and its substitutes. *Theor.Popul.Biol.*, 65:401-411, 2004, doi: 10.1016/j.tpb.2003.09.007.

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Department of WHOI Author: BIO.

Contribution Number: **11147**

**Caswell, Hal, Takenori Takada, and Christine M. Hunter**

Sensitivity analysis of equilibrium in density-dependent matrix population models. *Ecology Lett.*, 7:380-387, 2004, doi: 10.1111/j.1461-0248.2004.00595.x.

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Department of WHOI Author: BIO.

Contribution Number: **11110**

**Churchill, James H., Elise A. Ralph, Angela M. Cates, Judith W. Budd, and Noel R. Urban**

Observations of a negatively buoyant river plume in a large lake. *Limnol.Oceanogr.*, 48:884-894, 2003.

Department of WHOI Author: PO.

Contribution Number: **10492**

**Clift, Peter, and Paola Vannucchi**

Controls on tectonic accretion versus erosion in subduction zones: Implications for the origin and recycling of the continental crust. *Rev.Geophys.*, 42, RG2001, doi:10.1029/2003RG000127, 2004, doi: 10.1029/2003RG000127.

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Department of WHOI Author: GEOL.

**Coale, Kenneth H., Kenneth S. Johnson, Francisco P. Chavez, Ken O. Buesseler, Richard T. Barber, Mark A. Brzezinski, William P. Cochlan, Frank J. Millero, Paul G. Falkowski, James E. Bauer, Rik H. Wanninkhof, Raphael M. Kudela, Mark A. Altabet, Burke E. Hales, Taro Takahashi, Michael R. Landry, Robert R. Bidigare, Xiujun Wang, Zanna Chase, et al**

Southern Ocean iron enrichment experiment: Carbon cycling in high- and low-Si waters. *Science*, 304:408-414, 2004, doi: 10.1126/science.1089778.

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Department of WHOI Author: MCG.

**Coates, Anthony G., Marie-Pierre Aubry, William A. Bergren, Laurel S. Colline, and Michael Kunk**

Early Neogene history of the Central American arc from Bocas del Toro, western Panama. *Geol.Soc.Amer.Bull.*, 115:271-287, 2003, doi: 10.1130/0016-7606(2003)115<0271:ENHOTC>2.0.CO;2.

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Department of WHOI Author: GEOL.

**Cohen, Anne L., Struan R. Smith, Michael S. McCartney, and Jackie van Etten**

How brain corals record climate: An integration of skeletal structure, growth and chemistry of *Diploria labyrinthiformis* from Bermuda. *Mar.Ecol.Prog.Ser.*, 271:147-158, 2004.

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Department of WHOI Author: GEOL.

Contribution Number: **11138**

**Cormier, Marie-Helene, William B. F. Ryan, Anjana K. Shah, Wen Jin, Albert M. Bradley, and Dana R. Yoerger**

Waxing and waning volcanism along the East Pacific Rise on a millennium time scale. *Geology*, 31:633-636, 2003, doi: 10.1130/0091-7613(2003)031<0633:WAWVAT>2.0.CO;2.

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Department of WHOI Author: AOPE.

**Draut, Amy E., Peter D. Clift, David M. Chew, Matthew J. Cooper, Rex N. Taylor, and Robyn E. Hannigan**

Laurentian crustal recycling in the Ordovician Grampian Orogeny: Nd isotopic evidence from western Ireland. *Geol.Mag.*, 141:195-207, 2004, doi: 10.1017/S001675680400891X.

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Department of WHOI Author: GEOL.

Contribution Number: **11036**

**Eglinton, T. I., and D. J. Repeta**

Organic matter in the contemporary ocean. In: *Treatise on Geochemistry*. Henry Elderfield, ed. San Diego, CA: Elsevier, 6:145-180, 2003.

Department of WHOI Author: MCG.

Contribution Number: **10993**

**Evans, Rob**

Just add more water. *Nature*, 429:356-357, 2004, doi: 10.1038/429356a.

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Department of WHOI Author: GEOL.

**Fox-Kemper, Baylor**

Wind-driven barotropic gyre II: Effects of eddies and low interior viscosity. *J.Mar.Res.*, 62:195-232, 2004.

Department of WHOI Author: PO.

**Fox-Kemper, Baylor, and Joseph Pedlosky**

Wind-driven barotropic gyre I: Circulation control by eddy vorticity fluxes to an enhanced removal region. *J.Mar.Res.*, 62:169-193, 2004.

Department of WHOI Author: PO.

Contribution Number: **10927**

**Freville, Helene, Bruno Colas, Miquel Riba, Hal Caswell, Agnes Mignot, Eric Inbert, and Isabelle Olivieri**

Spatial and temporal demographic variability in the endemic plant species *Centaurea corymbosa* (Asteraceae). *Ecology*, 85:694-703, 2004.

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Department of WHOI Author: BIO.

**Frye, Daniel, Nelson Hogg, and Carl Wunsch**

A long duration mooring for ocean observation. *Sea Technol.*, 45(6):29-39, 2004.

Department of WHOI Author: AOPE. PO.

**Gaetani, Glenn A.**

The influence of melt structure on trace element partitioning near the peridotite solidus. *Contrib.Mineral.Petrol.*, 147:511-527, 2004, doi: 10.1007/s00410-004-0575-1.

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Department of WHOI Author: GEOL.

Contribution Number: **11153**

**Godard, Celine A. J., Roxanna M. Smolowitz, Joanna Y. Wilson, Roger S. Payne, and John J. Stegeman**

Induction of cetacean cytochrome P4501A1 by  $\beta$ -naphthoflavone exposure of skin biopsy slices. *Toxicol.Sci.*, 80:268-275, 2004, doi: 10.1093/toxsci/kfh124.

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Department of WHOI Author: BIO.

Contribution Number: **10980**

**Hintz, Christopher J., G. Thomas Chandler, Joan M. Bernhard, Daniel C. McCorkle, Suzanne M. Havach, Jessica K. Blanks, and Timothy J. Shaw**

A physicochemically constrained seawater culturing system for production of benthic foraminifera. *Limnol.Oceanogr.:Methods*, 2:160-170, 2004.

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Department of WHOI Author: GEOL.

**Hsu, Tian-Jian, and Philip L.-F. Liu**

Toward modeling turbulent suspension of sand in the nearshore. *J.Geophys.Res.*, 109,C06018,doi:10.1029/2003JC002240, 2004, doi: 10.1029/2003JC002240.

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Department of WHOI Author: AOPE.

Contribution Number: **11060**

**Huggett, Robert J., John J. Stegeman, David S. Page, Keith R. Parker, Bruce Woodin, John S. Brown**

Biomarkers in fish from Prince William Sound and the Gulf of Alaska: 1999-2000. *Environ.Sci.Technol.*, 37:4043-4051, 2003, doi: 10.1021/es0342401.

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Department of WHOI Author: BIO.

**Lynch, J. F., A. E. Newhall, B. Sperry, G. Gawarkiewicz, P. Tyack, C. S. Chiu, and P. Abbot**

Spatial and temporal variations in acoustic propagation characteristics at the New England shelfbreak front. *IEEE J.Oceanic Eng.*, 28:129-150, 2003, doi: 10.1109/JOE.2003.808833.

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Department of WHOI Author: AOPE. BIO.

Contribution Number: **10848**

**MacDonald, Daniel G., and W. Rockwell Geyer**

Turbulent energy production and entrainment at a highly stratified estuarine front. *J.Geophys.Res.*, 109,C05004,doi:10.1029/2003JC002094, 2004, doi: 10.1029/2003JC002094.

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Department of WHOI Author: AOPE.

Contribution Number: **11013**

**Marchal, Olivier, and Jerome Chappellaz**

On pre-industrial variations of atmospheric CO<sub>2</sub> [in French]. *C.R.Geosci.*, 336:691-699, 2004, doi: 10.1016/j.crte.2004.02.004.

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Department of WHOI Author: GEOL.

**McGuire, Jeffrey J.**

Immediate foreshock sequences of oceanic transform earthquakes on the East Pacific Rise. *Bull.Seismol.Soc.Am.*, 93:948-952, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10759**

**Morrison, J. Ruairidh**

In situ determination of the quantum yield of phytoplankton chlorophyll-*a* fluorescence: A simple algorithm, observations, and a model. *Limnol.Oceanogr.*, 48:618-631, 2003.

Department of WHOI Author: BIO.

Contribution Number: **10610**

**Nixon, Scott X., Stephen Granger, Betty A. Buckley, Melissa Lamont, and Brenda Rowell**

A one hundred and seventeen year coastal water temperature record from Woods Hole, Massachusetts. *Estuaries*, 27:397-404, 2004.

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Department of WHOI Author: ADMIN.

**Orphan, V. J., W. Ussler, III, T. H. Naehr, C. H. House, K. U. Hinrichs, and C. K. Paull**

Geological, geochemical, and microbiological heterogeneity of the seafloor around methane vents in the Eel River Basin, offshore California. *Chem.Geol.*, 205:265-289, 2004, doi: 10.1016/j.chemgeo.2003.12.035.

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Department of WHOI Author: GEOL.

**Pedlosky, Joseph**

Reply. *J.Phys.Oceanogr.*, 34:1791, 2004, doi: 10.1175/1520-0485(2004)034<1791:R>2.0.CO;2.

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Department of WHOI Author: PO.

**Pizarro, Oscar, and Hanumant Singh**

Toward large-area mosaicing for underwater scientific applications. *IEEE J.Oceanic Eng.*, 28:651-672, 2003, doi: 10.1109/JOE.2003.819154.

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Department of WHOI Author: AOPE.

Contribution Number: **10724**

**Raymo, M. E., D. W. Oppo, B. P. Flower, D. A. Hodell, J. F. McManus, K. A. Venz, K. F. Kleiven, and K. McIntyre**

Stability of North Atlantic waters masses in face of pronounced climate variability during the Pleistocene. *Paleoceanography*, 19,PA2008,doi:10.1029/2003PA000921, 2004, doi: 10.1029/2003PA000921.

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Department of WHOI Author: GEOL.

**Rengefors, K., K. C. Ruttenberg, C. L. Hauptert, C. Taylor, B. L. Howes, D. M. Anderson**

Experimental investigation of taxon-specific response of alkaline phosphatase activity in natural freshwater phytoplankton. *Limnol.Oceanogr.*, 48:1167-1175, 2003.

Department of WHOI Author: BIO. MCG.

Contribution Number: **10858**

**Rouxel, Olivier, Yves Fouquet, and Joan N. Ludden**

Copper isotope systematics of the Lucky Strike, Rainbow, and Logatchev sea-floor hydrothermal fields on the Mid-Atlantic Ridge. *Econ.Geol.*, 99:585-600, 2004.

Department of WHOI Author: MCG.

**Schmitz, Birger, Bernhard Peucker-Ehrenbrink, Claus Heilmann-Clausen, Goran Aberg, Frank Asaro, and Cin-Ty A. Lee**

Basaltic explosive volcanism, but no comet impact, at the Paleocene-Eocene boundary: High-resolution chemical and isotope records from Egypt, Spain and Denmark. *Earth Planet.Sci.Lett.*, 225:1-17, 2004, doi: 10.1016/j.epsl.2004.06.017.

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Department of WHOI Author: MCG.

Contribution Number: **11159**



**Shearman, R. Kipp, and Steven J. Lentz**

Observations of tidal variability on the New England shelf. *J.Geophys.Res.*,  
109,C06010,doi:10.1029/2003JC001972, 2004, doi: 10.1029/2003JC001972.

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Department of WHOI Author: PO.

Contribution Number: **10966**

**Singh, Hanumant, Ali Can, Ryan Eustice, Steve Lerner, Neil McPhee, Oscar Pizarro, and Chris Roman**

Seabed AUV offers new platform for high-resolution imaging. *Eos*, 85:289,294-295, 2004.  
Department of WHOI Author: AOPE.

**Sperry, Brian, James F. Lynch, Glen Gawarkiewicz, Ching-Sang Chiu, and Arthur Newhall**

Characteristics of acoustic propagation to the eastern vertical line array receiver during the summer of 1996 New England Shelfbreak PRIMER experiment. *IEEE J.Oceanic Eng.*,  
28:729-749, 2003, doi: 10.1109/JOE.2003.819153.

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Department of WHOI Author: AOPE.

Contribution Number: **10947**

**Stanton, Timothy K., D. Benjamin Reeder, and J. Michael Jech**

Inferring fish orientation from broadband-acoustic echoes. *ICES J.Mar.Sci.*, 60:524-531,  
2003, doi: 10.1016/S1054-3139(03)00032-8.

[Link to online article](#)

Department of WHOI Author: AOPE.

Contribution Number: **10788**

**Tarrant, A. M., M. J. Atkinson, and S. Atkinson**

Effects of steroidal estrogens on coral growth and reproduction. *Mar.Ecol.Prog.Ser.*,  
269:121-129, 2004.

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Department of WHOI Author: BIO.

**Walsh, Joseph B., and Wenlu L. Zhu**

Sliding of a rough surface under oblique loading. *J.Geophys.Res.*,  
109,B05208,doi:10.1029/2004JB003027, 2004, doi: 10.1029/2004JB003027.

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Department of WHOI Author: GEOL.

**Zhang, Zhang, Meixun Zhao, Xiangdong Yang, Sumin Wang, Xuezhong Jiang, Frank Oldfield, and Geoffrey Eglinton**

A hydrocarbon biomarker record for the last 40 kyr of plant input to Lake Heqing, southwestern China. *Org. Geochem.*, 35:595-613, 2004, doi: 10.1016/j.orggeochem.2003.12.003.

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Department of WHOI Author: MCG.

**Zimmer, Walter M. X., Mark P. Johnson, Angela D'Amico, and Peter L. Tyack**

Combining data from a multisensor tag and passive sonar to determine the diving behavior of a sperm whale (*Physeter macrocephalus*). *IEEE J. Oceanic Eng.*, 28:13-28, 2003, doi: 10.1109/JOE.2002.808209.

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Department of WHOI Author: AOPE. BIO.

Contribution Number: **10593B**

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