



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles Received in June 2004

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**Alekseev, G. V., O. M. Johannessen, A. A. Korablev, and A. Proshutinsky**

Arctic Ocean and sea ice. In: *Arctic Environment Variability in the Context of Global Change*. Leonid P. Bobylev, Kirill Ya. Kondratyev and Ola M. Johannessen, eds. New York, NY: Springer-Verlag, :107-145, 2003.  
Department of WHOI Author: PO.

**Archambault, Marie-Claude, V. Monica Bricelj, Jon Grant, and Donald M. Anderson**

Effects of suspended and sedimented clays on juvenile hard clams, *Mercenaria mercenaria*, within the context of harmful algal bloom mitigation. *Mar.Biol.*, 144:553-565, 2004, doi: 10.1007/s00227-003-1222-5.

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Department of WHOI Author: BIO.  
Contribution Number: **10833**

**Bourdon, Bernard, and Kenneth W. W. Sims**

U-series constraints on intraplate magmatism. In: *Uranium-series Geochemistry*. Bernard Bourdon, Gideon M. Henderson, Craig C. Lundstrom, and Simon P. Turner, eds. Washington, DC: Mineralogical Society of America, :215-253, 2003.  
Department of WHOI Author: GEOL.

**Boyd, Philip W., and Scott C. Doney**

The impact of climate change and feedback process on the ocean carbon cycle. In: *Ocean Biogeochemistry: The Role of the Ocean Carbon Cycle in Global Change*. Michael J.R. Fasham, ed. New York: Springer-Verlag, :157-193, 2003.  
Department of WHOI Author: MCG.

**Came, Rosemarie E., Delia W. Oppo, and William B. Curry**

Atlantic Ocean circulation during the Younger Dryas: Insights from a new Cd/Ca record from the western subtropical South. *Paleoceanography*, 18,1086,doi:10.1029/2003PA000888, 2003, doi: 10.1029/2003PA000888.

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Department of WHOI Author: GEOL.

Contribution Number: **10954**

**Carman, Mary, and Lloyd D. Keigwin**

Preservation and color differences in *Nuttalides umbonifera*. *J.Foraminiferal Res.*, 34:102-108, 2004.

Department of WHOI Author: GEOL.

**Cleveland, Robin O., Anne L. Cohen, Ronald A. Roy, Hanumant Singh, and Thomas L. Szabo**

Imaging coral II: Using ultrasound to image coral skeleton. *Subsurface Sensing Technologies and Applications An International Journal*, 5:43-61, 2004, doi: 10.1023/B:SSTA.0000018446.38711.67.

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Department of WHOI Author: GEOL. AOPE.

**Coco, Giovanni, Tom K. Burnet, B. T. Werner, and Steve Elgar**

The role of tides in beach cusp development. *J.Geophys.Res.*, 109,C04011,doi:10.1029/2003JC002154, 2004, doi: 10.1029/2003JC002154.

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Department of WHOI Author: AOPE.

**Cohen, Anne L., and Ted A. McConnaughey**

Geochemical perspectives on coral mineralization. In: *Biomineralization*. Patricia M. Dove, James J. De Yoreo, and Steve Weiner, eds. Washington, DC: Mineralogical Society of America, :151-187, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **11027**

**Doney, Scott C., Keith Lindsay, and J. Keith Moore**

Global ocean carbon cycle modeling. In: *Ocean Biogeochemistry: The Role of the Ocean Carbon Cycle in Global Change*. Michael J.R. Fasham, ed. New York: Springer-Verlag, :217-235, 2003.

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**Duda, Timothy F**

Finescale shear at 1660 and 2850 dbar over the Mid-Atlantic Ridge in the Eastern Brazil Basin. *J.Phys.Oceanogr.*, 34:1281-1292, 2004, doi: 10.1175/1520-0485(2004)034<1281:FSAADO>2.0.CO;2.

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Contribution Number: **10892**

**Emerson, Steven, Yutaka W. Watanabe, Tsuneo Ono, and Sabine Mecking**

Temporal trends in apparent oxygen utilization in the upper pycnocline of the North Pacific: 1980-2000. *J.Oceanogr.*, 60:139-147, 2004.

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**Feely, Richard A., Christopher L. Sabine, Reiner Schlitzer, John L. Bullister, Sabine Mecking, and Dana Greeley**

Oxygen utilization and organic carbon remineralization in the upper water column of the Pacific Ocean. *J.Oceanogr.*, 60:45-52, 2004.

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**Geyer, W. R., P. S. Hill, and G. C. Kineke**

The transport, transformation and dispersal of sediment by buoyant coastal flows. *Cont.Shelf Res.*, 24:927-949, 2004, doi: 10.1016/j.csr.2004.02.006.

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**Hahn, Mark E.**

Evolutionary and physiological perspectives on Ah receptor function and dioxin toxicity. In: *Dioxins and Health, 2nd ed.* Arnold Schecter and Thomas A. Gasiewicz, eds. New York, NY: Wiley-Interscience, :559-602, 2003.

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Contribution Number: **10516**

**Kaiser, Michel J.**

Fish in deep-water coral habitats. *Science*, 304:1595, 2004, doi: 10.1126/science.304.5677.1595b.

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Department of WHOI Author: MPC.

**Lochte, Karin, Robert Anderson, Roger Francois, Richard A. Janke, Graham Shimmield, and Alexander Vetrov**

Benthic processes and the burial of carbon. In: *Ocean Biogeochemistry: The Role of the Ocean Carbon Cycle in Global Change*. Michael J.R. Fasham, ed. New York: Springer-Verlag, :195-216, 2003.

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**Managi, Shunsuke, James J. Opaluch, Di Jin, and Thomas J. Grigalunas**

Technological change and depletion in offshore oil and gas. *J. Environ. Econ. Manage.*, 47:388-409, 2004, doi: 10.1016/S0095-0696(03)00093-7.

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Contribution Number: **10583**

**Martin, W. R., and F. L. Sayles**

Organic matter cycling in sediments of the continental margin in the northwest Atlantic Ocean. *Deep-Sea Res. I*, 51:457-489, 2004, doi: 10.1016/j.dsr.2003.10.013.

<http://dx.doi.org/10.1016/j.dsr.2003.10.013>

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**McGuire, Jeffrey J., and Paul Segall**

Imaging of aseismic fault slip transients recorded by dense geodetic networks. *Geophys. J. Int.*, 155:778-788, 2003, doi: 10.1111/j.1365-246X.2003.02022.x.

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**Milliman, John D., and Michael P. Bacon**

Deep-Sea Research at 50 years. *Deep-Sea Res. I*, 50:1151-1155, 2003, doi: 10.1016/S0967-0637(03)00142-0.

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**Moreira, Manuel, Jerzy Blusztajn, Curtice, Joshua, Stan Hart, Henry Dick, and Mark D. Kurz**

He and Ne isotopes in oceanic crust: Implications for noble gas recycling in the mantle. *Earth Planet. Sci. Lett.*, 216:635-643, 2003, doi: 10.1016/S0012-821X(03)00554-5.

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Contribution Number: **11049**

**Ohkouchi, Naohiko, Timothy I. Eglinton, and John M. Hayes**

Radiocarbon dating of individual fatty acids as a tool for refining Antarctic margin sediment chronologies. *Radiocarbon*, 45:17-24, 2003.

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**Pederson, T. F., R. Francois, L. Francois, K. Alverson, and J. McManus**

The late quaternary history of biogeochemical cycling of carbon. In: *Paleoclimate, Global Change and the Future*. Keith D. Alverson, Raymond S. Bradley and Thomas F. Pedersen, eds. New York, NY: Springer-Verlag, :63-79, 2003.

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**Pickart, Robert S.**

Shelfbreak circulation in the Alaskan Beaufort Sea: Mean structure and variability.

*J.Geophys.Res.*, 109,C04024,doi:10.1029/2003JC001912, 2004, doi:  
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**Potty, Gopu R., James H. Miller, and James F. Lynch**

Inversion for sediment geoacoustic properties at the New England Bight. *J.Acoust.Soc.Am.*, 114:1874-1887, 2003, doi: 10.1121/1.1605391.

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**Price, James F.**

Dimensional analysis of models and data sets. *Am.J.Phys.*, 71:437-447, 2003, doi:  
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**Proshutinsky, A. Y.**

Circulation of water and ice. In: *Arctic Environment Variability in the Context of Global Change*. Leonid P. Bobylev, Kirill Ya. Kondratyev and Ola M. Johannessen, eds. New York, NY: Springer-Verlag, :172-181, 2003.

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**Proshutinsky, A. Y**

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**Rozdilsky, Ian D., Lewi Stone, and Andrew Solow**

The effects of interaction compartments on stability for competitive systems. *J.Theor.Biol.*, 227:277-282, 2004, doi: 10.1016/j.jtbi.2003.11.007.

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**Sholkovitz, Edward, Craig Herbold, and Matthew Charette**

An automated dye-dilution seepage meter for the time-series measurement of submarine groundwater discharge. *Limnol.Oceanogr.:Methods*, 1:16-28, 2003.

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**Simmons, Harper L., Steven R. Jayne, Louis C. St. Laurent, and Andrew J. Weaver**

Tidally driven mixing in a numerical model of the ocean general circulation. *Ocean Model.*, 6:245-263, 2004, doi: 10.1016/S1463-5003(03)00011-8.

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**Sims, K. W. W., J. Blichert-Toft, D. J. Fornari, M. R. Perfit, S. J. Goldstein, P. Johnson, D. J. DePaolo, S. R. Hart, M. T. Murrell, P. J. Michael, G. D. Layne, and L. A. Ball**

Aberrant youth: Chemical and isotopic constraints on the origin of off-axis lavas from the East Pacific Rise, 9°-10°N. *Geochem.Geophys.Geosyst.*, 4,8621,doi:10.1029/2002GC000443, 2003, doi: 10.1029/2002GC000443.

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**Spall, Michael A.**

Boundary currents and watermass transformation in marginal seas. *J.Phys.Oceanogr.*, 34:1197-1213, 2004, doi: 10.1175/1520-0485(2004)034<1197:BCAWTI>2.0.CO;2.

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Contribution Number: **10942**

**Steele, John H.**

Regime shifts in the ocean: Reconciling observations and theory. *Prog.Oceanogr.*, 60:135-141, 2004, doi: 10.1016/j.pocean.2004.02.004.

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Department of WHOI Author: MPC.

Contribution Number: **11031**

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

Comparisons of surface meteorology and turbulent heat fluxes over the Atlantic: NWP model analyses versus moored buoy observations. *J.Climate*, 16:679-695, 2003, doi: 10.1175/1520-0442(2003)016<0679:COSMAT>2.0.CO;2.

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Contribution Number: **10596**

**Toole, Dierdre A., and David A. Siegel**

Light-driven cycling of dimethylsulfide (DMS) in the Sargasso Sea: Closing the loop. *Geophys.Res.Lett.*, 31,L09308,doi:10.1029/2004GL019581, 2004, doi: 10.1029/2004GL019581.

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Department of WHOI Author: MCG.

Contribution Number: **NONE**

**Tynan, Cynthia T.**

Cetacean populations on the SE Bering Sea shelf during the late 1990s: Implications for decadal changes in ecosystem structure and carbon flow. *Mar.Ecol.Prog.Ser.*, 272:281-300, 2004.

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Department of WHOI Author: PO.

Contribution Number: **10909**

**Wang, Wei, and Rui Xin Huang**

Wind energy input to the Ekman layer. *J.Phys.Oceanogr.*, 34:1267-1275, 2004, doi: 10.1175/1520-0485(2004)034<1267:WEITTE>2.0.CO;2.

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**Wang, Wei, and Rui Xin Huang**

Wind energy input to the surface waves. *J.Phys.Oceanogr.*, 34:1276-1280, 2004, doi: 10.1175/1520-0485(2004)034<1276:WEITTS>2.0.CO;2.

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Contribution Number: **10888**

**Wiebe, P. H., C. J. Ashjian, S. M. Gallager, C. S. Davis, G. L. Lawson, and N. J. Copley**

Using a high-powered strobe light to increase the catch of Antarctic krill. *Mar.Biol.*, 144:493-502, 2004, doi: 10.1007/s00227-003-1228-z.

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Contribution Number: **10982**

**Yang, Jiayan, Josefino Comiso, David Walsh, Richard Krishfield, and Susumu Honjo**

Storm-driven mixing and potential impact on the Arctic Ocean. *J.Geophys.Res.*, 109,C04008,doi:10.1029/2001JC001248, 2004, doi: 10.1029/2001JC001248.

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Department of WHOI Author: PO. GEOL.

Contribution Number: **11071**

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

Mean and variability of the WHOI daily latent and sensible heat fluxes at in situ flux measurement sites in the Atlantic Ocean. *J.Climate*, 17:2096-2118, 2004, doi: 10.1175/1520-0442(2004)017<2096:MAVOTW>2.0.CO;2.

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Department of WHOI Author: PO.

Contribution Number: **10972**

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