



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles Received in June 2001

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**Bice, Karen L. and Jochem Marotzke.**

Numerical evidence against reversed thermohaline circulation in the warm Paleocene/Eocene ocean. *J.Geophys.Res.*, 106(C6):11529-11542, 2001.  
Department of WHOI Author: GEOL.  
Contribution Number: **10217**

**Butler, Mari, Stephen M. Bollens, Brenda Burkhalter, Laurence P. Madin, and Erich Horgan.**

Mesopelagic fishes of the Arabian Sea: Distribution, abundance and diet of *Chauliodus pammelas*, *Chauliodus sloani*, *Stomias affinis*, and *Stomias nebulosus*. *Deep-Sea Res.II*, 48:1369-1383, 2001.  
Department of WHOI Author: BIO.  
Contribution Number: **10350**

**Chen, Changsheng, Robert Beardsley, and Peter J. S. Franks.**

A 3-D prognostic numerical model study of the Georges Bank ecosystem. Part I: physical model. *Deep-Sea Res.II*, 48:419-456, 2001.  
Department of WHOI Author: PO.  
Contribution Number: **NONE**

**Colosi, John A., Robert C. Beardsley, James F. Lynch, Glen Gawarkiewicz, Ching-Sang Chiu, and Alberto Scotti.**

Observations of nonlinear internal waves on the outer New England continental shelf during the summer Shelfbreak Primer study.  
*J.Geophys.Res.*, 106(C5):9587-9601, 2001.  
Department of WHOI Author: AOPE. PO.  
Contribution Number: **9906**

**Conte, Maureen H., Nate Ralph, and Edith H. Ross.**

Seasonal and interannual variability in deep ocean particle fluxes at the Ocean Flux Program (OFP)/Bermuda Atlantic Time Series (BATS) site in the western Sargasso Sea near Bermuda. *Deep-Sea Res. II*, 48:1471-1505, 2001.

Department of WHOI Author: MCG.

Contribution Number: **9982**

**Dai, M. H. and C. R. Benitez-Nelson.**

Colloidal organic carbon and  $^{234}\text{Th}$  in the Gulf of Maine.

*Mar. Chem.*, 74:181-196, 2001.

Department of WHOI Author: MCG.

Contribution Number: **10080**

**David, C., B. Menendez, W. Zhu, and T-f. Wong.**

Mechanical compaction, microstructures and permeability evolution in sandstones.

*Phys. Chem. Earth(A)*, 26(1-2):45-51, 2001.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Diegel, D. A., T. K. Westberry, M. C. O'Brien, N. B. Nelson, A. F. Michaels, J. R. Morrison, A. Scott, E. A. Caporelli, J. C. Sorensen, S. Maritorena, S. A. Garver, E. A. Brody, J. Ubante, and M. A. Hammer.**

Bio-optical modeling of primary production on regional scales: The Bermuda BioOptics project. *Deep-Sea Res. II*, 48:1865-1896, 2001.

Department of WHOI Author: AOPE.

Contribution Number: **NONE**

**Ding, Kang, William E. Seyfried, Jr., M. K. Tivey, and A. M. Bradley.**

In situ measurement of dissolved  $\text{H}_2$  and  $\text{H}_2\text{S}$  in high-temperature hydrothermal vent fluids at the Main Endeavour Field, Juan de Fuca Ridge.

*Earth Planet. Sci. Lett.*, 186:417-425, 2001.

Department of WHOI Author: GEOL., AOPE.

Contribution Number: **NONE**

**Draut, Amy E. and Peter D. Clift.**

Geochemical evolution of arc magmatism during arc-continent collision, South Mayo, Ireland. *Geology*, 29(6):543-546, 2001.

Department of WHOI Author: GEOL.

Contribution Number: **10404**

**DuRand, Michele D., Robert J. Olson, and Sallie W. Chisholm.**

Phytoplankton population dynamics at the Bermuda Atlantic Time-series station in the Sargasso Sea. *Deep-Sea Res. II*, 48:1983-2003, 2001.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

**Farrington, John W.**

Sverdrup, Johnson and Fleming's the oceans revisited: What of the future of graduate education in ocean sciences? *Oceanography*, 14:34-39, 2001.

Department of WHOI Author: ADMIN.

Contribution Number: **10464**

**Ferrari, R., A. J. Manfroi, and W. R. Young.**

Strongly and weakly self-similar diffusion. *Physica D*, 154:111-137, 2001.

Department of WHOI Author: PO.

Contribution Number: **NONE**

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

Evidence from gravity anomalies for interactions of the Marion and Bouvet hotspots with the Southwest Indian Ridge: Effects of transform offsets.

*Earth Planet.Sci.Lett.*, 187:283-300, 2001.

Department of WHOI Author: GEOL.

Contribution Number: **10311**

**Hoagland, Porter and Di Jin.**

A model for bycatch involving a passive use stock.

*Mar.Resour.Econ.*, 12:11-28, 1997.

Department of WHOI Author: MPC.

Contribution Number: **9370**

**Hulburt, Edward M.**

Non-interference and reciprocal adaptation. *Ecol.Model.*, 136:1-13, 2001.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

**Kinkade, C. S., J. Marra, T. D. Dickey, and R. Weller.**

An annual cycle of phytoplankton biomass in the Arabian Sea, 1994-1995, as determined by moored optical sensors. *Deep-Sea Res. II*, 48:1285-1301, 2001.

Department of WHOI Author: PO.

Contribution Number: **NONE**

**Kroon, D., R. D. Norris, and A. Klaus, eds.**

*Proc.Ocean Drill.Prog.,Sci.Res., Volume 171B*, [http://www-odp.tamu.edu/publications/171B\\_SR/171B](http://www-odp.tamu.edu/publications/171B_SR/171B)(June 18, 2001), 2000.  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Kroon, D., R. D. Norris, and A. Klaus.**

Introduction: Cretaceous-Paleogene climatic evolution of the Western North Atlantic, results from ODP Leg 171B, Blake Nose. *Proc.Ocean Drill.Prog., Sci.Res.*, [http://www-odp.tamu.edu/publications/171B\\_SR/VOLUME/INTRO/SR171BIN.PDF](http://www-odp.tamu.edu/publications/171B_SR/VOLUME/INTRO/SR171BIN.PDF)(18 June 2001), 2001.  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Legg, S., K. Julien, J. McWilliams, and J. Werne.**

Vertical transport by convection plumes: Modification by rotation.  
*Phys.Chem.Earth(B)*, 26(4):259-262, 2001.  
Department of WHOI Author: PO.  
Contribution Number: **NONE**

**McCollom, T. M., J. S. Seewald, and B. R. T. Simoneti.**

Reactivity of monocyclic compounds under hydrothermal conditions.  
*Geochim.Cosmochim.Acta*, 65(3):455-468, 2001.  
Department of WHOI Author: MCG.  
Contribution Number: **NONE**

**McGillicuddy, D. J., Jr., V. K. Kosnyrev, J. P. Ryan, and J. A. Yoder.**

Covariation of mesoscale ocean color and sea-surface temperature patterns in the Sargasso Sea. *Deep-Sea Res.II*, 48:182-1836, 2001.  
Department of WHOI Author: AOPE.  
Contribution Number: **9892**

**Moreira, Manuel, Krestan Breddam, Joshua Curtice, and Mark D. Kurz.**

Solar neon in the Icelandic mantle: New evidence for an undegassed lower mantle.  
*Earth Planet.Sci.Lett.*, 185:15-23, 2001.  
Department of WHOI Author: MCG.  
Contribution Number: **10332**

**Norris, Richard D., Dick Kroon, Brian T. Huber, and Jochen Erbacher.**

Cretaceous-Palaeogene ocean and climate change in the subtropical North Atlantic. In: *Western North Atlantic Palaeogene and Cretaceous Palaeoceanography, Special Publication No. 183*. D. Kroon, R. D. Norris, and A. Klaus, eds. The Geological Society of London, also reprinted In: *Proc. Ocean Drill. Prog., Sci. Res., Volume 171B:1-22* and [http://www-odp.tamu.edu/publications/171B\\_SR/VOLUME/CHAPTERS/SR171B10.PDF](http://www-odp.tamu.edu/publications/171B_SR/VOLUME/CHAPTERS/SR171B10.PDF) (June 18, 2001), 2000.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Plueddemann, A. J., E. A. Terray, and R. Merewether.**

Design and performance of a self-contained fan-beam ADCP.

*IEEE J. Ocean. Eng.*, 26(2):252-258, 2001.

Department of WHOI Author: PO., AOPE.

Contribution Number: **10405**

**Ravizza, G., J. Blusztajn, K. L. Von Damm, A. M. Bray, W. Bach, and S. R. Hart.**

Sr isotope variations in vent fluids from 9°46'-9°54'N East Pacific Rise: Evidence of a non-zero-Mg fluid component.

*Geochim. Cosmochim. Acta*, 65(5):729-739, 2001.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Sauer, Peter E., Timothy I. Eglinton, John M. Hayes, Arndt Schimmelmann, and Alex L. Sessions.**

Compound-specific D/H ratios of lipid biomarkers from sediments as a proxy for environmental and climatic conditions.

*Geochim. Cosmochim. Acta*, 65(2):213-222, 2001.

Department of WHOI Author: MCG., GEOL.

Contribution Number: **NONE**

**Schleziinger, Jennifer F. and John J. Stegeman.**

Induction and suppression of cytochrome P450 1A by 3,3',4,4',5-pentachlorobiphenyl and its relationship to oxidative stress in the marine fish scup (*Stenotomus chrysops*).

*Aquat. Toxicol.*, 52:101-115, 2001.

Department of WHOI Author: BIO.

Contribution Number: **10178**

**Shalapyonok, Alexi, Robert J. Olson, and Ludmila S. Shalapyonok.**

Arabian Sea phytoplankton during Southwest and Northeast Monsoons 1995: Composition, size structure and biomass from individual cell properties measured by flow cytometry. *Deep-Sea Res. II*, 48:1231-1261, 2001.

Department of WHOI Author: BIO.

Contribution Number: **NONE**

**Shaw, W. J., J. H. Trowbridge, and A. J. Williams, III.**

The budgets of turbulent kinetic energy and scalar variance in the continental shelf bottom boundary layer. *J. Geophys. Res.*, 106(C5):9551-9564, 2001.

Department of WHOI Author: AOPE.

Contribution Number: **10416**

**Sheremet, Vitalii A.**

Hysteresis of a western boundary current leaping across a gap.

*J. Phys. Oceanogr.*, 31:1247-1259, 2001.

Department of WHOI Author: PO.

Contribution Number: **10200**

**Sholkovitz, G. Allsup, D. Hosom, and M. Purcell.**

An autonomous aerosol sampler/elemental analyzer designed for ocean buoys and remote land sites. *Atmos. Environ.*, 35:2969-2975, 2001.

Department of WHOI Author: MCG.

Contribution Number: **10393**

**Sosik, Heidi M., Rebecca E. Green, W. Scott Pegau, and Collin S. Roesler.**

Temporal and vertical variability in optical properties of New England shelf waters during late summer and spring.

*J. Geophys. Res.*, 106(C5):9455-9472, 2001.

Department of WHOI Author: BIO.

Contribution Number: **10383**

**Ternois, Y., K. Kawamura, L. Keigwin, N. Ohkouchi, and T. Nakatsuka.**

A biomarker approach for assessing marine and terrigenous inputs to the sediments of Sea of Okhotsk for the last 27,000 years.

*Geochim. Cosmochim. Acta*, 65(5):791-802, 2001.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Toomey, Barbara Holland, Susan Bello, Mark E. Hahn, Susannah Cantrell,  
Peggy Wright, Donald E. Tillitt, and Richard T. Di Giulio.**

2,3,7,8-Tetrachlorodibenzo-p-dioxin induces apoptotic cell death and cytochrome P4501A expression in developing *Fundulus heteroclitus* embryos. *Aquat.Toxicol.*, 53:127-138, 2001.

Department of WHOI Author: BIO.

Contribution Number: **10160**

**Wade, Bridget S., Richard D. Norris, Dick Kroon.**

Data Report: High-resolution stable isotope stratigraphy of the Late Middle Eocene at site 1051, Blake Nose. *Proc.Ocean Drill.Prog.,Sci.Res., Volume 171B*, [http://www-odp.tamu.edu/publications/171B\\_SR/VOLUME/CHAPTERS/SR171B10.PDF](http://www-odp.tamu.edu/publications/171B_SR/VOLUME/CHAPTERS/SR171B10.PDF) (June 18, 2001), 2000.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Xu, L., C. M. Reddy, J. W. Farrington, G. S. Frysinger, R. B. Gaines,  
C. G., Johnson, R. K. Nelson, and T. I. Eglinton.**

Identification of a novel alkenone in Black Sea sediments. *Org.Geochem.*, 32:633-645, 2001.

Department of WHOI Author: MCG.

Contribution Number: **10419**

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