



MBLWHOI LIBRARY
Marine Biological Laboratory
Woods Hole Oceanographic Institution

WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles Received in November 2004

MBLWHOI Library
Woods Hole, MA 02543

Note: Access to online articles may be limited to journal subscribers

Acosta, J., E. Ancochea, M. Canals, M. J. Huertas, and E. Uchupi

Early Pleistocene volcanism in the Emile Baudot Seamount, Balearic Promontory (western Mediterranean Sea). *Mar.Geol.*, 207:247-257, 2004, doi: 10.1016/j.margeo.2004.04.003.

[Link to online article](#)

Department of WHOI Author: GEOL.

Acosta, J., M. Canals, A. Carbo, A. Munoz, R. Urgeles, A. Munoz-Martin, and E. Uchupi

Sea floor morphology and Plio-Quaternary sedimentary cover of the Mallorca Channel, Balearic islands, western Mediterranean. *Mar.Geol.*, 206:165-179, 2004, doi: 10.1016/j.margeo.2004.02.008.

[Link to online article](#)

Department of WHOI Author: GEOL.

Adduce, Claudia, and Claudia Cenedese

An experimental study of a mesoscale vortex colliding with topography of varying geometry in a rotating fluid. *J.Mar.Res.*, 62:611-638, 2004, doi: 10.1357/0022240042387583.

[Link to online article](#)

Department of WHOI Author: PO.

Contribution Number: **11034**

Bach, Wolfgang, Susan E. Humphris, and Andrew T. Fisher

Fluid flow and fluid-rock interaction within ocean crust: reconciling geochemical, geological, and geophysical observations. In: *The Subseafloor Biosphere at Mid-Ocean Ridges*. William S. Wilcock, Edward F. DeLong, Deborah S. Kelley, John A. Baross, and S. Craig Cary, eds. Washington, DC: American Geophysical Union, :99-117, 2004, doi: 10.1029/144GM07.

[Link to online article](#)

Department of WHOI Author: MCG. GEOL.

Contribution Number: **10597**

Brumley, B., B. Strong, and E. Terray

Can wave direction be measured from an AUV? In: *Proceedings of the IEEE 7th Working Conference on Current Measurement Technology, March 13-15, 2003, San Diego, CA*. Judith A. Rizoli, ed. New York, NY: IEEE, :140-144, 2003.

Department of WHOI Author: AOPE.

Buynevich, Ilya V., Duncan M. Fitzgerald, and Sytze van Heteren

Sedimentary records of intense storms in Holocene barrier sequences, Maine, USA. *Mar.Geol.*, 210:135-148, 2004, doi: 10.1016/j.margeo.2004.05.007.

[Link to online article](#)

Department of WHOI Author: GEOL.

Contribution Number: **11044**

Clift, Peter D., Graham D. Layne, and Jerzy Blusztajn

Marine sedimentary evidence for monsoon strengthening, Tibetan uplift and drainage evolution in East Asia. In: *Continent-Ocean Interactions Within East Asian Marginal Seas*. Peter Clift, Wolfgang Kuhnt, Pinxian Wang, and Dennis Hayes, eds. Washington, DC: American Geophysical Union, :255-282, 2004, doi: 10.1029/149GM14.

[Link to online article](#)

Department of WHOI Author: GEOL.

Doney, S. C., K. Lindsay, K. Caldeira, J.-M. Campin, H. Drange, J.-C. Dutay, M. Follows, Y. Gao, A. Gnanadesikan, N. Gruber, A. Ishida, F. Joos, G. Madec, E. Maier-Reimer, J. C. Marshall, R. J. Matear, P. Monfray, A. Mouchet, R. Najjar, et al

Evaluating global ocean carbon models: the importance of realistic physics.

Glob.Biogeochem.Cycles, 18,GB3017,doi:10.1029/2003GB002150, 2004, doi:

10.1029/2003GB002150.

[Link to online article](#)

Department of WHOI Author: MCG.

Contribution Number: **11186**

Feuillade, C., D. Chu, and C. S. Clay

Space-time variations of the acoustic field scattered from a penetrable isovelocity wedge. *J.Acoust.Soc.Am.*, 116:777-789, 2004, doi: 10.1121/1.1772394.

[Link to online article](#)

Department of WHOI Author: AOPE.

FitzGerald, Jennifer L., Simon R. Thorrold, Kevin M. Bailey, Annette L. Brown, and Kenneth P. Severin

Elemental signatures in otoliths of larval walleye pollock (*Theragra chalcogramma*) from the northeast Pacific Ocean. *Fish.Bull.*, 102:604–616, 2004.

[Link to online article](#)

Department of WHOI Author: BIO.

Contribution Number: **11219**

Francis, D. T. I., and K. G. Foote

Anatomy of fish-swimbladder acoustic resonances at high frequencies. In: *Proceedings of the Seventh European Conference on Underwater Acoustics, ECUA 2004, 5-8 July, 2004, Delft, Netherlands*, 1:403-408, 2004.

Department of WHOI Author: AOPE.

Contribution Number: **11121**

Francois, Roger, Martin Frank, Michiel M. R. van der Loeff, and Michael P. Bacon

²³⁰Th normalization: an essential tool for interpreting sedimentary fluxes during the late Quaternary. *Paleoceanography*, 19,PA1018,doi:10.1029/2003PA000939, 2004, doi: 10.1029/2003PA000939.

[Link to online article](#)

Department of WHOI Author: MCG.

Goodman, Jason. C., Geoffrey C. Collins, John Marshall, and Raymond T. Pierrehumbert

Hydrothermal plume dynamics on Europa: implications for chaos formation. *J.Geophys.Res.*, 109,E03008,doi:10.1029/2003JE002073, 2004, doi: 10.1029/2003JE002073.

[Link to online article](#)

Department of WHOI Author: PO.

Han, S. M., and M. A. Grosenbaugh

Non-linear free vibration of a cable against a straight obstacle. *J.Sound Vib.*, 273:337-361, 2004, doi: 10.1016/S0022-460X(03)00542-X.

[Link to online article](#)

Department of WHOI Author: AOPE.

Contribution Number: **10760**

Hill, M. Forrest, Jon D. Witman, and Hal Caswell

Markov chain analysis of succession in a rocky subtidal community. *Am.Nat.*, 164:E46-E61, 2004.

[Link to online article](#)

Department of WHOI Author: BIO.

Contribution Number: **10188**

Hogg, Nelson G., and Daniel Frye

Deep ocean experience with acoustic current meters. In: *Proceedings of the IEEE 7th Working Conference on Current Measurement Technology, March 13-15, 2003, San Diego, CA*. Judith A. Rizoli, ed. New York, NY: IEEE, :171-175, 2003.

Department of WHOI Author: PO. AOPE.

Hsu, Tian-Jian, James T. Jenkins, and Philip L.-F. Liu

On two-phase sediment transport: sheet flow of massive particles. *Proc.R.Soc.Lond.Ser.A*, 460:2223-2250, 2004, doi: 10.1098/rspa.2003.1273.

[Link to online article](#)

Department of WHOI Author: AOPE.

Hulburt, Edward M.

The four principles of adaptation and their set theory foundation. *Ecol.Modell.*, 180:253-276, 2004, doi: 10.1016/j.ecolmodel.2004.04.018.

[Link to online article](#)

Department of WHOI Author: BIO.

Huppert, Amit, and Andrew R. Solow

A method for reconstructing climate from fossil beetle assemblages.

Proc.R.Soc.Lond.Ser.B.Biol.Sci., 271:1125-1128, 2004, doi: 10.1098/rspb.2004.2706.

[Link to online article](#)

Department of WHOI Author: MPC.

Irish, James D., and David W. Fredriksson

Compliant mooring technology to separate buoy motion from in-line current meter observations.

In: *Proceedings of the IEEE 7th Working Conference on Current Measurement Technology, March 13-15, 2003, San Diego, CA*. Judith A. Rizoli, ed. New York, NY: IEEE, :165-170, 2003.

Department of WHOI Author: AOPE.

Irish, James D., and Albert J. Williams, III

Comparison of Aanderaa RCM-9 and MAVS3 current meters measuring surface currents in the Gulf of Maine. In: *Proceedings of the IEEE 7th Working Conference on Current Measurement Technology, March 13-15, 2003, San Diego, CA*. Judith A. Rizoli, ed. New York, NY: IEEE, :182-187, 2003.

Department of WHOI Author: AOPE.

Irish, James D., David W. Fredriksson, and Stanley Boduch

Environmental monitoring buoy and mooring with telemetry. *Sea Technol.*, 45(5):14-19, 2004.

Department of WHOI Author: AOPE.

Contribution Number: **11137**

Jakuba, M. V., and D. R. Yoerger

High resolution multibeam sonar mapping with the Autonomous Benthic Explorer (ABE). In: *13th International Symposium on Unmanned Untethered Submersible Technology (UUST), New England Center, Durham, New Hampshire, USA, August 24-27, 2003*, 15 pp., 2003.

Department of WHOI Author: AOPE.

Contribution Number: **10979**

Kaplan, Michael R., Robert P. Ackert, Jr., Brad S. Singer, Daniel C. Douglass, and Mark D. Kurz

Cosmogenic nuclide chronology of millennial-scale glacial advances during O-isotope stage 2 in Patagonia. *Geol.Soc.Amer.Bull.*, 116:308-321, 2004, doi: 10.1130/B25178.1.

[Link to online article](#)

Department of WHOI Author: MCG.

Kremp, Anke, and Donald M. Anderson

Lectin binding patterns of *Scrippsiella lachrymose* (Dinophyceae) in relation to cyst formation and nutrient conditions. *J.Exp.Mar.Biol.Ecol.*, 307:165-181, 2004, doi: 10.1016/j.jembe.2004.02.004.

[Link to online article](#)

Department of WHOI Author: BIO.

Contribution Number: **10995**

Lima, Ivan D., and Scott C. Doney

A three-dimensional, multnutrient and size-structured ecosystem model for the North Atlantic. *Glob.Biogeochem.Cycles*, 18,GB3019,doi:10.1029/2003GB002146, 2004, doi: 10.1029/2003GB002146.

[Link to online article](#)

Department of WHOI Author: MCG.

Contribution Number: **11204**

Louden, Keith E., Brian E. Tucholke, and Gordon N. Oakey

Regional anomalies of sediment thickness, basement depth and isostatic crustal thickness in the North Atlantic Ocean. *Earth Planet.Sci.Lett.*, 224:193-211, 2004, doi: 10.1016/j.epsl.2004.05.002.

[Link to online article](#)

Department of WHOI Author: GEOL.

Contribution Number: **11154**

Lvov, Yuri V., Kurt L. Polzin, and Esteban G. Tabak

Energy spectra of the ocean's internal wave field: theory and observations. *Phys.Rev.Lett.*, 92:128501, 2004, doi: 10.1103/PhysRevLett.92.128501.

[Link to online article](#)

Department of WHOI Author: PO.

McGillis, Wade R., James B. Edson, Christopher J. Zappa, Jonathan D. Ware, Sean P. McKenna, Eugene A. Terray, Jeffrey E. Hare, Christopher W. Fairall, William Drennan, Mark Donelan, Michael D. DeGrandpre, Rik Wanninkhof, and Richard A. Feely

Air-sea CO₂ exchange in the equatorial Pacific. *J.Geophys.Res.*, 109,C08S02,doi:10.1029/2003JC002256, 2004, doi: 10.1029/2003JC002256.

[Link to online article](#)

Department of WHOI Author: AOPE.

Montgomery, Ellyn T., and Kurt L. Polzin

An integrated method of obtaining absolute ocean velocity from a profiling free vehicle. In: *Proceedings of the IEEE 7th Working Conference on Current Measurement Technology, March 13-15, 2003, San Diego, CA*. Judith A. Rizoli, ed. New York, NY: IEEE, :227-230, 2003.

Department of WHOI Author: PO.

Neubert, Michael G., Tin Klanjscek, and Hal Caswell

Reactivity and transient dynamics of predator-prey and food web models. *Ecol.Modell.*, 179:29-38, 2004, doi: 10.1016/j.ecolmodel.2004.05.001.

[Link to online article](#)

Department of WHOI Author: BIO.

Contribution Number: **11179**

Plueddemann, A. J., S. J. Lentz, and E. A. Terray

Comparison of five current meters in a tidally dominated flow. In: *Proceedings of the IEEE 7th Working Conference on Current Measurement Technology, March 13-15, 2003, San Diego, CA*. Judith A. Rizoli, ed. New York, NY: IEEE, :176-181, 2003.

Department of WHOI Author: PO. AOPE.

Pope, Welkin H., Cameron Haase-Pettingell, and Jonathan King

Protein folding failure sets high-temperature limit on growth of phage P22 in *Salmonella enterica* serovar Typhimurium. *Appl.Environ.Microbiol.*, 70:4840-4847, 2004, doi: 10.1128/AEM.70.8.4840-4847.2004.

[Link to online article](#)

Department of WHOI Author: BIO.

Prasch, Amy L., Hiroki Teraoka, Sara A. Carney, Wu Dong, Takeo Hiraga, John J. Stegeman, Warren Heideman, and Richard E. Peterson

Aryl hydrocarbon receptor 2 mediates 2,3,7,8-Tetrachlorodibenzo-?-dioxin developmental toxicity in zebrafish. *Toxicol.Sci.*, 76:138-150, 2003, doi: 10.1093/toxsci/kfg202.

[Link to online article](#)

Department of WHOI Author: BIO.

Preisig, James C., and Grant B. Deane

Surface wave focusing and acoustic communications in the surf zone. *J.Am.Stat.Assoc.*, 116:2067-2080, 2004, doi: 10.1121/1.1771591.

[Link to online article](#)

Department of WHOI Author: AOPE.

Contribution Number: **11018**

Roberts, M. L., R. A. Culp, D. K. Dvoracek, G. W. L. Hodgins, M. P. Neary, and J. E. Noakes

The ¹⁴C AMS system at the University of Georgia. *Nucl.Instrum.Meth.Phys.Res.B*, 223-224:1-4, 2004, doi: 10.1016/j.nimb.2004.04.004.

[Link to online article](#)

Department of WHOI Author: GEOL.

Ross, Tetjana, Chris Garrett, and Rolf Lueck

On the turbulent co-spectrum of two scalars and its effect on acoustic scattering from oceanic turbulence. *J.Fluid Mech.*, 514:107-119, 2004, doi: 10.1017/S0022112004000126.

[Link to online article](#)

Department of WHOI Author: AOPE.

Schneider, R. J., S-W. Kim, K. F. von Reden, J. M. Hayes, J. S. C. Wills, V. S. Griffin, A. L. Sessions, and S. Sylva

A gas ion source for continuous-flow AMS. *Nucl.Instrum.Meth.Phys.Res.B*, 223-224:149-154, 2004, doi: 10.1016/j.nimb.2004.04.031.

[Link to online article](#)

Department of WHOI Author: GEOL.

Contribution Number: **10783**

Schulte, Sonja, Albert Benthien, Peter J. Muller, and Carsten Ruhlemann

Carbon isotopic fractionation ($\delta^{13}C$) of C_{37} alkenones in deep-sea sediments: its potential as a paleonutrient proxy. *Paleoceanography*, 19,PA1011,doi:10.1029/2002PA000811, 2004, doi: 10.1029/2002PA000811.

[Link to online article](#)

Department of WHOI Author: GEOL.

Shank, T. M., D. Fornari, D. Yoerger, S. Humphris, A. Bradley, S. Hammond, J. Lupton, D. Scheirer, R. Collier, A.-L. Reysenbach, K. Ding, W. Seyfried, D. Butterfield, E. Olson, M. Lilley, N. Ward, and J. Eisen

Deep submergence synergy: *Alvin* and ABE explore the Galápagos Rift at 86°W. *Eos*, 84:425,432-433, 2003.

[Link to online article](#)

Department of WHOI Author: BIO. GEOL. AOPE.

Singer, Brad S., Robert P. Ackert, Jr., and Herve Guillou

$^{40}Ar/^{39}Ar$ and K-Ar chronology of Pleistocene glaciations in Patagonia. *Geol.Soc.Amer.Bull.*, 116:434-450, 2004, doi: 10.1130/B25177.1.

[Link to online article](#)

Department of WHOI Author: MCG.

Sutton, Tracey T., and Karsten E. Hartel

New species of *Eustomias* (Teleostei: Stomiidae) from the western North Atlantic, with a review of the subgenus *Neostomias*. *Copeia*, 2004:116-121, 2004.

Department of WHOI Author: BIO.

Contribution Number: **10916**

Tivey, Margaret Kingston

Environmental conditions within active seafloor vent structures: sensitivity to vent fluid composition and fluid flow. In: *The Subseafloor Biosphere at Mid-Ocean Ridges*. William S. Wilcock, Edward F. DeLong, Deborah S. Kelley, John A. Baross, and S. Craig Cary, eds. Washington, DC: American Geophysical Union, :137-152, 2004, doi: 10.1029/144GM09.

[Link to online article](#)

Department of WHOI Author: MCG.

Contribution Number: **10696**

Vanko, David A., Wolfgang Bach, Stephen Roberts, Christopher J. Yeats, and Steven D. Scott

Fluid inclusion evidence for subsurface phase separation and variable fluid mixing regimes beneath the deep-sea PACMANUS hydrothermal field, Manus Basin back arc rift, Papua New Guinea. *J.Geophys.Res.*, 109,B03201,doi:10.1029/2003JB002579, 2004, doi: 10.1029/2003JB002579.

[Link to online article](#)

Department of WHOI Author: MCG.

Ward, J. A., G. F. Slater, D. P. Moser, L.-H. Lin, G. Lacrampe-Couloume, B. S. Bonin, M. Davidson, J. A. Hall, B. Mislawack, R. E. S. Bellamy, T. C. Onstott, and B. Sherwood Lollar

Microbial hydrocarbon gases in the Witwatersrand Basin, South Africa: implications for the deep biosphere. *Geochim.Cosmochim.Acta*, 68:3239-3250, 2004, doi: 10.1016/j.gca.2004.02.020.

[Link to online article](#)

Department of WHOI Author: MCG.

Weisberg, R. H., R. He, G. Kirkpatrick, F. Muller-Karger, and J. J. Walsh

Coastal ocean circulation influences on remotely sensed optical properties: a West Florida Shelf case study. *Oceanography*, 17:68-75, 2004.

Department of WHOI Author: AOPE.

Yuan, G. C., M. S. Lozier, L. J. Pratt, C. K. R. T. Jones, and K. R. Helfrich

Estimating the predictability of an oceanic time series using linear and nonlinear methods. *J.Geophys.Res.*, 109,C08002,doi:10.1029/2003JC002148, 2004, doi: 10.1029/2003JC002148.

[Link to online article](#)

Department of WHOI Author: PO.

Compiled by: Ann Devenish
MBLWHOI Library
library@whoi.edu
December 1, 2004