



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles Received in October 2003

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**Badiey, M., Y. Mu, J. Lynch, J. Apel, and S. Wolf**

Temporal and azimuthal dependence of sound propagation in shallow water with internal waves. *IEEE J. Oceanic Eng.*, 27:117-129, 2002.  
Department of WHOI Author: AOPE.

**Barbieri, Elena, Bruce J. Paster, Deborah Hughes, Ludek Zurek, Duane P. Moser, Andreas Teske, and Mitchell L. Sogin**

Phylogenetic characterization of epibiotic bacteria in the accessory nidamental gland and egg capsules of the squid *Loligo pealei* (Cephalopoda: Loliginidae). *Environ. Microbiol.*, 3(3):151-167, 2001.  
Department of WHOI Author: BIO.  
Contribution Number: **9626**

**Bartol, Soraya Moein, Roger L. Mellgren, and John A. Musick**

Visual acuity of juvenile loggerhead sea turtles (*Caretta caretta*): A behavioral approach. *Int. J. Comp. Psychol.*, 16:143-155, 2003.  
Department of WHOI Author: BIO.

**Ben-David, Merav, Tamara Kondratyuk, Bruce R. Woodin, Paul W. Snyder, and John J. Stegeman**

Induction of cytochrome P450 1A1 expression in captive river otters fed Prudhoe Bay crude oil: Evaluation by immunohistochemistry and quantitative RT-PCR. *Biomarkers*, 6(3):218-235, 2001.  
Department of WHOI Author: BIO.

**Bowen, Gabriel J., Paul L. Koch, Philip D. Gingerich, Richard D. Norris, Santo Bains, and Richard M. Corfield**

Refined isotope stratigraphy across the continental Paleocene-Eocene boundary on Polecat Bench in the northern Bighorn Basin. In: *Paleocene-Eocene Stratigraphy and Biotic Change in the Bighorn and Clarks Fork Basins, Wyoming*. P. D. Gingerich, ed., Ann Arbor, MI: Museum of Paleontology, University of Michigan, 33:73-88, 2001.  
Department of WHOI Author: GEOL.

**Bullock, James M., Ibbey L. Moy, Richard F. Pywell, Sarah J. Coulson, Abigail M. Nolan, and Hal Caswell**

Plant dispersal and colonization processes at local and landscape scales. In: *Dispersal Ecology: The 42nd Symposium of the British Ecological Society held at the University of Reading, 205 April 2001*. James M. Bullock, Robert Kenward, and Rosie Hails, eds. Oxford: Blackwell, :279-302, 2002.  
Department of WHOI Author: BIO.

**Carey, Willaim M., Peter G. Cable, William L. Seigmann, James F. Lynch, and Ilya Rozenfeld**

Measurement of sound transmission and signal gain in the complex Strait of Korea. *IEEE J.Oceanic Eng.*, 27:841-852, 2002.  
Department of WHOI Author: AOPE.

**Carmack, Eddy, and David C. Chapman**

Wind-driven shelf/basin exchange on an Arctic shelf: The joint roles of ice cover extent and shelf-break bathymetry. *Geophys.Res.Lett.*, 30(14),1778,doi:10.1029/2003GL017526, 2003.  
Department of WHOI Author: PO.  
Contribution Number: **10938**

**Chen, Changsheng, and Robert C. Beardsley**

Cross-frontal water exchange on Georges Bank: Some results from an U.S. GLOBEC/Georges Bank Program model study. *J.Oceanogr.*, 58:403-420, 2002.  
Department of WHOI Author: PO.

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

Model study of the cross-frontal water exchange on Georges Bank: A three-dimensional Lagrangian experiment. *J.Geophys.Res.*, 108(C5),3142,doi:10.1029/2000JC000390, 2003.  
Department of WHOI Author: PO.

**Clift, Peter D.**

A brief history of the Indus River. In: *Tectonic and Climatic Evolution of the Arabian Sea Region*. P.D. Clift, D. Kroon, C. Gaedicke, and J. Craig, eds. London: The Geological Society, :237-258, 2002.

Department of WHOI Author: GEOL.

Contribution Number: **10631**

**Cox, Tara M., Andrew J. Read, Andrew Solow, and Nick Tregenza**

Will harbor porpoises (*Phocoena phocoena*) habituate to pingers? *J.Cetacean Res.Manage.*, 3(1):81-86, 2001.

Department of WHOI Author: MPC.

Contribution Number: **10346**

**Deng, Jian, Larry Pratt, Lou Howard, and Chris Jones**

On stratified shear flow in sea straits of arbitrary cross section. *Stud.Appl.Math.*, 111:409-434, 2003.

Department of WHOI Author: PO.

**Distel, Daniel L., Wendy Morrill, Noelle MacLaren-Toussaint, Dianna Franks, and John Waterbury**

*Teredinibacter turnerae* gen. nov., sp. nov., a dinitrogen-fixing, cellulolytic, endosymbiotic gama-proteobacterium isolated from the gills of wood-boring molluscs (Bivalvia: Teredinidae). *Int.J.Systematic Microbiol.*, 52:2261-2269, 2002.

Department of WHOI Author: BIO.

**Dyhrman, Sonya T., Eric A. Webb, Donald M. Anderson, James W. Moffett, and John B. Waterbury**

Cell-specific detection of phosphorus stress in *Trichodesmium* from the Western North Atlantic. *Limnol.Oceanogr.*, 47:1832-1836, 2002.

Department of WHOI Author: BIO. MCG.

Contribution Number: **10725**

**Edson, James B., Alan C. Chave, Manhar D. Dhanak, and Fred D. Dunnebier**

Guest editorial. *IEEE J.Oceanic Eng.*, 27:145, 2002.

Department of WHOI Author: AOPE.

**Gordon, Jonathan, and Peter L. Tyack**

Acoustic techniques for studying cetaceans. In: *Marine Mammals: Biology and Conservation*. P. G. H. Evans and T. Raga, eds. New York, NY: Kluwer Academic, :293-324, 2001.

Department of WHOI Author: BIO.

**Gordon, Jonathan, and Peter L. Tyack**

Sound and cetaceans. In: *Marine Mammals: Biology and Conservation*. P. G. H. Evans and T. Raga, eds. New York, NY: Kluwer Academic, :139-196, 2001.

Department of WHOI Author: BIO.

**Hart, S. R., H. Staudigel, R. Workman, A. A. P. Koppers, and A. P. Girard**

A fluorescein tracer release experiment in the hydrothermally active crater of Vailulu'u volcano, Samoa. *J.Geophys.Res.*, 108(B8),2377,doi:10.1029/2002JB001902, 2003.

Department of WHOI Author: GEOL.

**Hetland, Robert D., Dennis J. McGillicuddy, and Richard P. Signell**

Cross-frontal entrainment of plankton into a buoyant plume: The frog tongue mechanism. *J.Mar.Res.*, 60:763-777, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10680**

**Huang, Yue-Wern, John J. Stegeman, Bruce R. Woodin, and William H. Karasov**

Immunohistochemical localization of cytochrome P4501A induced by 3,3',4,4',5-pentachlorobiphenyl (PCB 126) in multiple organs of northern leopard frogs, *Rana pipiens*. *Environ.Toxicol.Chem.*, 20:191-197, 2001.

Department of WHOI Author: BIO.

**Hunt, Heather L., and Lauren S. Mullineaux**

The roles of predation and postlarval transport in recruitment of the soft shell clam (*Mya arenaria*). *Limnol.Oceanogr.*, 47:151-164, 2002.

Department of WHOI Author: BIO.

Contribution Number: **10215**

**Jiang, Houshuo**

Numerical simulation of the flow field at the scale size of an individual copepod. In: *Handbook of Scaling Methods in Aquatic Ecology: Measurement, Analysis, Simulation*. Laurent Seuront and Peter G. Strutton, eds. Boca Raton, FL:CRC Press, :479-491, 2003.

Department of WHOI Author: AOPE.

Contribution Number: **10765**

**Keigwin, L. D., J. P. Sachs, and Y. Rosenthal**

A 1600-year history of the Labrador Current off Nova Scotia. *Clim.Dyn.*, 21:53-62, 2003.

Department of WHOI Author: GEOL.

**Kukla, George L., Michael L. Bender, Jacques-Louis de Beaulieu, Gerard Bond, Wallace S. Broecker, Piet Cleveringa, Joyce E. Gavin, Timothy D. Herbert, John Imbrie, Jean Jouzel, Lloyd D. Keigwin, Karen-Luise Knudsen, Jerry McManus, Josef Merkt, Daniel R. Muhs, Helmut Muller, Richard Z. Poore, Stephen C. Porter, Guy Seret, et al.**

Last interglacial climates. *Quat.Res.*, 58:2-13, 2002.

Department of WHOI Author: GEOL.

**Lewis, Craig V. L., James R. Weinberg, and Cabell S. Davis**

Population structure and recruitment of the bivalve *Arctica islandica* (Linnaeus, 1767) on Georges Bank from 1980-1999. *J.Shellfish Res.*, 20:1135-1144, 2001.

Department of WHOI Author: BIO.

**Lundin, Kennet, and Christoffer Schander**

Epidermal ciliary ultrastructure of adult and larval sipunculids (Sipunculida). *Acta Zool.*, 84:113-119, 2003.

Department of WHOI Author: BIO.

Contribution Number: **10793**

**Martinez, Ignacio, Lloyd Keigwin, Timothy T. Barrows, Yusuke Yokoyama, and John Southon**

La Niña-like conditions in the eastern equatorial Pacific and a stronger Choco jet in the northern Andes during the last glaciation. *Paleoceanography*, 18(2),1033,doi:10.1029/2002PA000877, 2003.

Department of WHOI Author: GEOL.

**McGillicuddy, D. J., R. P. Signell, C. A. Stock, B. A. Keafer, M. D. Keller, R. D. Hetland, and D. M. Anderson**

A mechanism for offshore initiation of harmful algal blooms in the coastal Gulf of Maine. *J.Plankton Res.*, 25:1131-1138, 2003.

Department of WHOI Author: AOPE. BIO.

Contribution Number: **10652**

**McManus, Jerry, Delia Oppo, James Cullen, and Stephanie Healey**

Marine isotope stage 11 (MIS 11): Analog for holocene and future climate? In: *Earth's Climate and Orbital Eccentricity: Marine Isotope Stage 11 Question*. Andre W. Droxler, Richard Z. Poore, Lloyd H. Burckle, eds. Washington, DC: American Geophysical Union, :69-85, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10559**

**Miksis, Jennifer L., Matthew D. Grund, Douglas P. Nowacek, Andrew R. Solow, Richard C. Connor, and Peter L. Tyack**

Cardiac responses to acoustic playback experiments in the captive bottlenose dolphin (*Tursiops truncatus*). *J.Comp.Psychol.*, 115(3):227-232, 2001.

Department of WHOI Author: BIO. AOPE.

Contribution Number: **9917**

**Milkov, Alexei V., George E. Claypool, Young-Joo Lee, Wenyue Xu, Gerald R. Dickens, Walter S. Borowski, and the ODP 204 Leg Scientific Party**

In situ methane concentrations at Hydrate Ridge offshore Oregon: New constraints on the global gas hydrate inventory from an active margin. *Geology*, 31:833-836, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10950**

**Milkov, Alexei V., and Roger Sassen**

Preliminary assessment of resources and economic potential of individual gas hydrate accumulations in the Gulf of Mexico continental slope. *Mar.Pet.Geol.*, 20:111-128, 2003.

Department of WHOI Author: GEOL.

Contribution Number: **10867**

**Pearson, Paul N., Richard D. Norris, and Andrew J. Empson**

*Mutabella mirabilis* gen. et sp. nov., a miocene microperforate planktonic foraminifer with an extreme level of intraspecific variability. *J.Foraminiferal Res.*, 31(2):120-132, 2001.

Department of WHOI Author: GEOL.

**Petitt, Robert A., Jr., David W. Harris, Beecher Wooding, John Bailey, James Jolly, Ed Hobart, Alan D. Chave, Fred Duennebier, Rhett Butler, Andrew Bowen, and Dana Yoerger**

The Hawaii-2 observatory. *IEEE J.Oceanic Eng.*, 27:245-253, 2002.

Department of WHOI Author: AOPE.

**Pizarro, Oscar, Hanumant Singh, and Steven Lerner**

Towards image-based characterization of acoustic navigation. In: *IEEE/RSJ International Conference on Intelligent Robots and Systems, Maui, Hawaii, Oct. 29-Nov. 3, 2001*, :1519-1524, 2001.

Department of WHOI Author: AOPE.

**Podar, Mircea, Steven H. D. Haddock, Mitchell L. Sogin, and G. Richard Harbison**

A molecular phylogenetic framework for the phylum Ctenophora using 18S rRNA genes. *Mol.Phylogenet.Evol.*, 21(2):218-30, 2001.

Department of WHOI Author: BIO.

Contribution Number: **10474**

**Rehnstam-Holm, Ann-Sofi, Anna Godhe, and Donald M. Anderson**

Molecular studies of *Dinophysis* (Dinophyceae) species from Sweden and North America. *Phycologia*, 41(4):348-357, 2002.  
Department of WHOI Author: BIO.  
Contribution Number: **10387**

**Saito, Mak A., James W. Moffett, Sallie W. Chisholm, and John B. Waterbury**

Cobalt limitation and uptake in *Prochlorococcus*. *Limnol.Oceanogr.*, 47:1629-1636, 2002.  
Department of WHOI Author: MCG. BIO.  
Contribution Number: **10755**

**Sosik, Heidi M., Robert J. Olson, Michael G. Neubert, Alexi Shalapyonok, and Andrew R. Solow**

Growth rates in coastal phytoplankton from time-series measurements with a submersible flow cytometer. *Limnol.Oceanogr.*, 48:1756-1765, 2003.  
Department of WHOI Author: BIO. MPC.  
Contribution Number: **10733**

**Twiss, Michael R., and James W. Moffett**

Comparison of copper speciation in coastal marine waters measured using analytical voltammetry and diffusion gradient in thin-film techniques. *Environ.Sci.Technol.*, 36:1061-1068, 2002.  
Department of WHOI Author: MCG.

**Tyack, Peter L.**

Behavior, overview. In: *Encyclopedia of Marine Mammals*. W. Perrin, B. Wursig, and J. G. M Thewissen, eds. San Diego: Academic Press, :87-94, 2002.  
Department of WHOI Author: BIO.

**Tyack, Peter L.**

Mimicry. In: *Encyclopedia of Marine Mammals*. W. Perrin, B. Wursig, and J. G. M Thewissen, eds. San Diego: Academic Press, :748-750, 2002.  
Department of WHOI Author: BIO.

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Compiled by: Ann Devenish  
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