



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles Received in August 2002

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Aguilera, Angeles, Bruce A. Keafer, G. H. Rau, and Donald M. Anderson.

Immunomagnetic isolation of live and preserved *Alexandrium fundyense* cells: Species-specific physiological, chemical, and isotopic analyses. *Mar.Ecol.Prog.Ser.*, 237:65-78, 2002.

Department of WHOI Author: BIO.

Contribution Number: **10550**

Atkins, Michael S., Magda A. Hanna, Erine A. Kupetsky, Mak A. Saito, Craig A. Taylor, and Carl O. Wirsen.

Tolerance of flagellated protists to high sulfide and metal concentrations potentially encountered at deep-sea hydrothermal vents. *Mar.Ecol.Prog.Ser.*, 226:63-75, 2002.

Department of WHOI Author: BIO.

Contribution Number: **10600**

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 in the egg capsules of the squid *Loligo Pealei* (Cephalopoda: Loliginidae).

Environ.Microbiol., 3(3):151-167, 2001.

Department of WHOI Author: BIO.

Contribution Number: **9626**

Borisova, Anastassia Yu, Ignor K. Nikogosian, James S. Scoates, Dominique Weis, Dimitri Damasceno, Nobumichi Shimizu, and Jacques L. R. Touret.

Melt, fluid and crystal inclusions in olivine phenocrysts from Kerguelen plume-derived picritic basalts: Evidence for interaction with the Kerguelen Plateau lithosphere.

Chem.Geol., 183:195-220, 2002.

Department of WHOI Author: GEOL.

Cohte, Maureen H. and John C. Weber.

Plant biomarkers in aerosols record isotopic discrimination of terrestrial photosynthesis. *Nature*, 417:639-641, 2002.

Department of WHOI Author: MCG.

Currie, L. A., B. A. Benner, J. D. Kessler, D. B. Klinedinst, G. A. Klouda, J. V. Marolf, J. F. Slater, S. A. Wise, H. Cachier, R. Cary, J. C. Chow, J. Watson, E. R. M. Druffel, C. A. Masiello, T. I. Eglinton, A. Pearson, C. M. Reddy, O. Gustafsson, and J. G. Quinn, et al.

A critical evaluation of interlaboratory data on total, elemental, and isotopic carbon in the carbonaceous particle reference material, NIST SRM 1649a.

J.Res.Natl.Stand.Technol., 107:279-298, 2002.

Department of WHOI Author: MCG.

Dahlgren, Thomas G., Bertil Akesson, Christoffer Schander, Kenneth M. Halanych, and Per Sundberg.

Molecular phylogeny of the model annelid *Ophryotrocha*. *Bio.Bull.*, 201:193-203, 2001.

Department of WHOI Author: BIO.

Edgcomb, Virginia A., David T. Kysela, Andreas Teske, Alvin de Vera Gomez, and Mitchell L. Sogin.

Benthic eukaryotic diversity in a hydrothermal vent environment.

Proc.Nat.Acad.Sci.USA, 99(11):7658-7662, 2002.

Department of WHOI Author: BIO.

Contribution Number: **10481**

Eglinton, T. I., G. Eglinton, L. Dupont, E. R. Sholkovitz, D. Montlucon, and C. M. Reddy.

Composition, age, and provenance of organic matter in NW African dust over the Atlantic Ocean. *Geochem.Geophys.Geosys.*,

<http://g-cubed.org/gc2002/2001GC000269/2001GC000269.pdf>, 2002.

Department of WHOI Author: MCG.

Contribution Number: **10761**

Fagan, William F., Mark A. Lewis, and P. van den Driessche.

Invasion theory and biological control. *Ecology Lett.*, 5:148-157, 2002.

Department of WHOI Author: BIOL.

Gaetani, Glenn A., and Bruce E. Watson.

Modeling the major-element evolution of olivine-hosted melt inclusions. *Chem.Geol.*, 183:25-41, 2002.

Department of WHOI Author: GEOL.

Gardner, W. D., J. C. Blakey, I. D. Walsh, M. J. Richardson, S. Pegau, J. R. V. Zaneveld, C. Roesler, M. C. Gregg, J. A. MacKinnon, H. M. Sosik, and A. J. Williams III.

Optics, particles, stratification, and storms on the New England continental shelf.

J.Geophys.Res., 106(C5):9473-9497, 2001.

Department of WHOI Author: BIOL.

Halanych, Kenneth M., Robert A. Feldman, and Robert C. Vrijenhoek.

Molecular evidence that *Sclerolinum brattstromi* is closely related to vestimentiferans, not frenulate pogonophorans (Siboglinidae, Annelida). *Bio.Bull.*, 201:65-75, 2001.

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Contribution Number: **10443**

Harbison, G. R., G. I. Matsumoto, and B. H. Robison.

Lampocteis cruentiventer, gen. nov., sp. nov: A new mesopelagic lobate ctenophore representing the type of a new family (class Tentaculata, order Lobata, family Lampoctenidae). *Bull.Mar.Sci.*, 68(2):299-311, 2001.

Department of WHOI Author: BIOL.

Herbers, T. H. C., Steve Elgar, N. A. Sarap, and R. T. Guza.

Nonlinear dispersion of surface gravity waves in shallow water. *J.Phys.Oceanogr.*, 32(4):1181-1193, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10061**

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-pentochlorobiphenyl (PCB 126) in multiple organs of northern leopard frogs, *Rana pipiens*. *Environ.Toxicolog.Chem.*, 20:191-197, 2001.

Department of WHOI Author: BIO.

Ivanov, V. P., A. M. Kamakin, V. B. Ushivtzev, T. Shiganova, O. Zhukova, N. Aladin, S. I. Wilson, G. R. Harbison, and H. Dumont.

Invasion of the Caspian Sea by the comb jellyfish *Mnemiopsis leidyi* (Ctenophora).

Biol.Invasions, 2:255-258, 2000.

Department of WHOI Author: BIOL.

Keller, A. A., C. Taylor, C. Oviatt, T. Dorrington, G. Holcombe, and L. Reed.

Phytoplankton production patterns in Massachusetts Bay and the absence of the 1998 winter-spring bloom. *Marine Biol.*, 138:1051-1062, 2001.

Department of WHOI Author: BIOL.

Levin, Lisa A., Ron J. Etter, Michael A. Rex, Andrew J. Gooday, Craig R. Smith, Jesus Pineda, Carol T. Stuart, Robert R. Hessler, and David Pawson.

Environmental influences on regional deep-sea species diversity. *Ann.Rev.Ecol.Syst.*, 32:51-93, 2001.

Department of WHOI Author: BIOL.

Luther, George W. III, Tim F. Rozan, Martial Taillefert, Donald B. Nuzzio, Carol Di Meo, Timothy M. Shank, Richard A. Lutz, and S. Craig Cary.

Chemical speciation drives hydrothermal vent ecology. *Nature*, 410:813-816, 2001.

Department of WHOI Author: BIOL.

Miller, R. L., G. R. Harbison, and S. R. Hilfer.

Evidence for dioecy in the mesopelagic ctenophore *Bathocyroe Fosteri* (Lobata Ctenophora). *Invert.Reprod.Dev.*, 37(2):171-183, 2000.

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Mitchell, G., A. Bricaud, K. Carder, G. Ferrari, R. Gould, M. Kahru, M. Kishino, H. Maske, T. Moisan, L. Moore, N. Nelson, D. Phinney, R. Reynolds, H. Sosik, D. Stramski, S. Tassan, C. Trees, A. Weidemann, J. Weiland, and A. Vodacek.

Determination of spectral absorption coefficients of particles, dissolved material, and phytoplankton for discrete water samples. *Ocean optics protocols for satellite ocean color sensor validation, revision 2*, G. S. Fargion and J. L. Mueller, eds., NASA/TM 2000-209966, NASA Goddard Space Flight Center, Greenbelt, MD, :125-153, 2000.

Department of WHOI Author: BIOL.

Noyes, T. James, R. T. Guza, Steve Elgar, and T. H. C. Herbers.

Comparison of methods for estimating nearshore shear wave variance. *J.Atmos.Oceanic Technol.*, 19:136-143, 2002.

Department of WHOI Author: AOPE.

Contribution Number: **10368**

Orcutt, K. M., U. Rasmussen, E. A. Webb, J. B. Waterbury, K. Gundersen, and B. Bergman.

Characterization of *Trichodesmium* spp. by genetic techniques. *Appl.Environ.Microbiol.*, 68(5):2236-2245, 2002.

Department of WHOI Author: BIOL.

Pedlosky, Joseph

The destabilization of Rossby normal modes by meridional baroclinic shear. *J.Phys.Oceanogr.*, 32:2418-2423, 2002.

Department of WHOI Author: PO.

Contribution Number: **10547**

Ratto, J., J. Russo, A. Allen, J. Herbert, and C. O. Wirsén.

Biodegradable polymers in the marine environment: tiered testing approach to assessing microbial degradability. In: *Biopolymers from polysaccharides and Agroproteins*, ACS Symposium Series 786, R. Gross and C. Scholz, eds., ACS, Washington, DC, :316-336, 2001.

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Rosenbaum, H. C., R. L. Brownell, M. W. Brown, C. Schaeff, V. Portway, B. N. White, S. Malik, L. A. Pastene, N. J. Patenaude, C. S. Baker, M. Goto, P. B. Best, P. J. Clapham, P. Hamilton, M. Moore, R. Payne, V. Rowntree, C. T. Tynan, J. L. Bannister, and R. DeSalle.

World-wide genetic differentiation of *Eubalaena*: questioning the number of right whale species. *Mol.Ecol.*, 9:1793-1802, 2000.

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Sanders, R. W., D. A. Caron, J. M. Davidson, M. R. Dennett, and D. M. Moran.

Nutrient acquisition and population growth of a mixotrophic alga in axenic and bacterized cultures. *Microb.Ecol.*, 42:513-523, 2001.

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Sheremet, Vitalii A.

Inertial gyre driven by a zonal jet emerging from the western boundary.

J.Phys.Oceanogr., 32:2361-2378, 2002.

Department of WHOI Author: PO.

Contribution Number: **10373**

Sigalevich, Pavel, Mark V. Baev, Andreas Teske, and Yehuda Cohen.

Sulfate reduction and possible aerobic metabolism of the sulfate-reducing bacterium *Desulfovibrio oxyclinae* in a chemostat coculture with *Marinobacter* sp. Strain MB under exposure to increasing oxygen concentrations. *Appl.Environ.Microbiol.*, 66(11):5013-5018, 2000.

Department of WHOI Author: BIOL.

Stephen, Ralph A.

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Department of WHOI Author: GEOL.

Contribution Number: **9699**

Volovik, S. P. and G. R. Harbison.

Major basis for the biocontrol of the development of *Mnemiopsis* populations in the Azov and Black Sea basins. In: *The Ctenophore Mnemiopsis leidyi* (A. Agassiz) in the Azov and Black Seas: its biology and the consequences of its intrusion, S. P. Volovik, ed., Rostov-on-Don, BKI (in Russian), :420-431, 2000.

Department of WHOI Author: BIOL.

Wang, Mei-Hui, Mark Kot, and Michael G. Neubert.

Integrodifference equations, Allee effects, and invasions. *J.Math.Biol.*, 44:150-168, 2002.

Department of WHOI Author: BIOL.

Wirsen, C. O., S. M. Sievert, C. M. Cavanaugh, s. J. Molyneaux, A. Ahmad, L. T. Taylor, E. F. Delong, and C. D. Taylor.

Characterization of an autotrophic sulfide-oxidizing marine *Arcobacter* that produces filamentous sulfur. *Appl.Environ.Microbiol.*, 68(1):316-325, 2002.

Department of WHOI Author: BIO.

Contribution Number: **10519**

Xie, Huixiang, Steven S. Andrews, William R. Martin, Jared Miller, Lori Ziolkowski, Craig D. Taylor, and Oliver C. Zafiriou.

Validated methods for sampling and headspace analysis of carbon monoxide in seawater. *Mar.Chem.*, 77:93-108, 2002.

Department of WHOI Author: MCG.

Contribution Number: **10501**

Zappa, C. J., W. E. Asher, A. T. Jessup, J. Klinke, and S. R. Long.

Effect of microscale wave breaking on air-water gas transfer. In: *Geophysical Monograph 127. Gas Transfer at Water Surfaces*. M. A. Donelan, W. M. Drennan, E. S. Saltzman, and R. Waninkhof, eds. American Geophysical Union, Washington, D. C., :23-29, 2002.

Department of WHOI Author: AOPE.

Zehr, Jonathan P., John B. Waterbury, Patricia J. Turner, Joseph P. Montoya, Enoma Omoregie, Grieg F. Steward, Andrew Hansen, and David M. Karl.

Unicellular cyanobacteria fix N₂ in the subtropical North Pacific Ocean. *Nature*, 412:635-638, 2001.

Department of WHOI Author: BIOL.

Zopfi, Jakob, Timothy G. Ferdelman, Bo Barker Jorgensen, Andreas Teske, and BoThamdrup.

Influence of water column dynamics on sulfide oxidation and other major biogeochemical processes in the chemolline of Mariager Fjord (Denmark).

Mar.Chem., 74:29-51, 2001.

Department of WHOI Author: BIO.

Contribution Number: **10204**

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