



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles in Preparation – January 2002

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**Aguilera, Angeles, Bruce A. Keafer, and Donald M. Anderson.**

Immunomagnetic isolation of live and preserved *Alexandrium fundyense* cells:  
Species-specific physiological, chemical, and isotopic analyses.  
*Mar. Ecol. Prog. Ser.*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **10550**

**Ashjian, Carin J., Sharon L. Smith, Charels N. Flagg, and Nasseer Idrisi.**

Distribution, annual cycle, and vertical migration of acoustically derived biomass in the Arabian Sea during 1994-1995. *Deep-Sea Res. II*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **10537**

**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.*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **10600**

**Austin, Thomas, James Edson, Wade McGillis, Michael Purcell, Robert Petitt,  
Marguerite McElroy, Carlton Grant, Jonathan Ware, and Sheila Hurst.**

A network-based telemetry architecture developed for the Martha's Vineyard coastal observatory. *IEEE J. Ocean. Eng.*, IN PRESS.  
Department of WHOI Author: AOPE.  
Contribution Number: **10603**

**Bach, Wolfgang, Neil R. Banerjee, Henry J. B. Dick, Edward T. Baker.**

Discovery of ancient and active hydrothermal systems along the ultra-slow spreading Southwest Indian Ridge 10-16°E.

*Geochem. Geophys. Geosyst.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10570**

**Baird, Robin W., J. Fabrizio Borsani, M. Bradley Hanson, and Peter L. Tyack.**

Diving behavior of long-finned pilot whales in the Ligurian Sea.

*Mar. Mamm. Sci.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10322**

**Conte, M. H. and J. C. Weber.**

Long range atmospheric transport of terrestrial organic biomarkers to the western North Atlantic: Implications for paleoclimatic assessment.

*Org. Geochem.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10532**

**Dai, M. H., J. M. Kelley, and K. O. Buesseler.**

Do colloids facilitate plutonium migration in groundwater? *Nature*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10430**

**DuRand, Michele D., Rebecca E. Green, Heidi M. Sosik, and Robert J. Olson.**

Diel variations in optical properties of *Micromonas pusilla* (Prasinophyceae).

*J. Phycol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10608**

**Evans, Rob L., Spahr C. Webb, and the RIFT-UMC Team.**

Crustal resistivity structure at 9°5' N on the East Pacific Rise: Results of an electromagnetic survey. *Geophys. Res. Lett.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

**Freitag, Lee, Mark Johnson, and Milica Stojanovic.**

Integrated Doppler tracking and interpolation for phase-coherent acoustic communication. *IEEE J. Ocean. Eng.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10606**

**Frysinger, Glenn S., Richard B. Gaines, and Christopher M. Reddy.**

A new tool for environmental forensics. *Environ. Forensics*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10585**

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

The transport and dispersal of sediment by buoyant coastal flows.

*Cont. Shelf Res.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10602**

**Glover, David M., Scott C. Doney, Arthur J. Mariano, Robert H. Evans, and Scott J. McCue.**

Mesoscale variability in time-series data: Satellite based estimates for the U. S. JGOFS Bermuda Atlantic Timeseries Study (BATS) site.

*J. Geophys. Res.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10507**

**Jaffe, Lillie A., Bernhard Peucker-Ehrenbrink, and Steven T. Petsch.**

Mobility of rhenium, platinum group elements and organic carbon during black shale weathering. *Earth Planet. Sci. Lett.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10539**

**Kilfoyle, Dan, James Preisig, and Arthur Baggeroer.**

Spatial modulation over partially coherent multiple-input/multiple-output channels.

*IEEE Trans. on Signal Processing*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10598**

**Li, Aishao, Mario R. Sengco, and Donald M. Anderson.**

Flocculation and removal of *Pfiesteria*. *J. Plankton Res.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10607**

**Licciardi, Joseph M., Peter U. Clark, Edward J. Brook, Kenneth L. Pierce, Mark D. Kurz, David Elmore, and Pankaj Sharma.**

Cosmogenic  $^3\text{He}$  and  $^{10}\text{Be}$  chronologies of the late Pinedale northern Yellowstone ice cap, Montana. *Geology*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10490**

**Lott, Dempsey E., III**

Improvements in noble gas separation methodology: A nude cryogenic trap.  
*Geochem.Geophys.Geosyst.*, IN PRESS.  
Department of WHOI Author: MCG.  
Contribution Number: **10491**

**Marsh, Adam G., Lauren S. Mullineaux, Craig M. Young, and Donal T. Manahan.**

Larval dispersal potential of the tubeworm *Riftia pachyptila* along a deep-ocean ridge axis. *Nature*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **10320**

**Martin Traykovski, Linda V. and Heidi M. Sosik.**

Feature-based classification of optical water types in the Northwest Atlantic based on satellite ocean colour data. *J.Geophys.Res.*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **10530**

**McGillicuddy, D. J., Jr. and A. C. Bucklin.**

Intermingling of two *Pseudocalanus* species. *J.Mar.Res.*, IN PRESS.  
Department of WHOI Author: AOPE.  
Contribution Number: **10599**

**Mendez, Silvia M., David M. Kulis, and Donald M. Anderson.**

PSP toxin production of Uruguyan isolates of *Gymnodinium catenatum* and *Alexandrium tamarense*. In: *Proceedings of the 95th International Conference on Harmful Algal Blooms*. G. M. Hallegraeff, S. I. Blackburn, C. J. Bolch, and R. J. Lewis, eds., IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **10185**

**Micheli, Fiorenza, Charles H. Peterson, Lauren S. Mullineaux, Charles R. Fisher, Susan W. Mills, Gorka Sancho, Galen A. Johnson, and Hunter S. Lennihan.**

Species interactions at deep-sea hydrothermal vents: The role of predation in structuring communities in an extreme environment. *Ecology*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **10321**

**Naumann, Terry, Dennis Geist, and Mark Kurz.**

Petrology and geochemistry of volcano Cerro Azul: Petrologic diversity among the western Galapagos volcanoes. *J.Petrol.*, IN PRESS.  
Department of WHOI Author: MCG.  
Contribution Number: **10556**

**Neubert, Michael G., Hal Caswell, and J. D. Murray.**

Transient dynamics and pattern formation: Reactivity is necessary for Turing instabilities.  
*Math.Biosci.*, IN PRESS.  
Department of WHOI Author: MCG.  
Contribution Number: **10528**

**Nowacek, Douglas P.**

Sequential foraging behaviour of bottlenose dolphins, *Tursiops truncatus* in Sarasota Bay, FL. *Behaviour*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **10543**

**Peucker-Ehrenbrink, Bernhard, and Bor-ming Jahn.**

Rhenium-osmium isotope systematics and platinum group element concentrations: I. Loess and the upper continental crust. *Geochem.Geophys.Geosyst.*, IN PRESS.  
Department of WHOI Author: MCG.  
Contribution Number: **10495**

**Reddy, Christopher M., Ann Pearson, Li Xu, Ann P. McNichol, Bruce Benner, Stephen A. Wise, George Klouda, Lloyd A. Currie, and Timothy I. Eglinton.**

Radiocarbon as a tool to apportion the sources of polycyclic aromatic hydrocarbons and black carbon in environmental samples.  
*Environ.Sci.Technol.*, IN PRESS.  
Department of WHOI Author: MCG.  
Contribution Number: **10587**

**Schmitz, B., M. Tassinari, Bernhard Peucker-Ehrenbrink.**

A rain of ordinary chondritic meteorites in the early Ordovician.  
*Earth Planet.Sci.Lett.*, IN PRESS.  
Department of WHOI Author: MCG.  
Contribution Number: **10544**

**Shimeta, Jeff, Carl L. Amos, Stace E. Beaulieu, and Oladipo M. Ashiru.**

Sequential resuspension of protists by accelerating tidal flow: Implications for community structure in the benthic boundary layer.  
*Limnol.Oceanogr.*, IN PRESS.  
Department of WHOI Author: AOPE.  
Contribution Number: **10605**

**Singh, Hanumant, James Bellingham, Franz Hover, Steve Lerner, Bradley A. Moran, Keith von der Heydt, and Dana Yoerger.**

Docking for an autonomous ocean sampling network.

*IEEE J.Ocean.Eng.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10564**

**Straneo, Fiammetta, Mistuhiro Kawase, and Robert S. Pickart.**

Effects of wind on convection in strongly and weakly baroclinic flows with application to the Labrador Sea. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10609**

**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*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10596**

**Treguier, A. M., N. G. Hogg, M. Maltrud, K. Speer, and V. Thierry.**

On the origin of deep zonal flows in the Brazil Basin.

*J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10595**

**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.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10501**

**Zafiriou, Oliver C., Steve A. Andrews, and Wei Wang.**

Concordant estimates of oceanic carbon monoxide source and sink processes in the Pacific yield a balanced global “blue-water” CO budget.

*Global Biogeochem.Cycles*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10505**

**Zemmelink, H. J., W. W. C. Gieskes, P. M. Holland, and J. W. H. Dacey.**

Preservation of atmospheric dimethyl sulphide samples on Tenax in sea-to-air flux measurements. *Atmos. Environ.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10538**

**Zimmer, Walter M. X., Mark P. Johnson, Angela D'Amico, and Peter L. Tyack.**

Combining data from a multi-sensor tag and passive sonar to determine the diving behavior of a sperm whale (*Physeter macrocephalus*).

*IEEE J. Ocean. Eng.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10593**

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