



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles in Preparation – September 2002

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**Anderson, Donald M.**

The expanding global problem of harmful algal blooms. In: *Proceedings of the International Seminar on Planetary Emergencies*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10806**

**Archambault, Marie-Claude, V. Monica Bricelj, Jon Grant, and Donald M. Anderson**

Effects on juvenile hard clams, *Mercenaria mercenaria*, from the application of phosphatic clays to mitigate harmful algal blooms. *Mar.Biol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10833**

**Bice, Karen L., Brian T. Huber, and Richard D. Norris**

Extreme polarwarmth during cretaceous greenhouse?: The paradox of the later turonian  $\delta^{18}\text{O}$  record at DSDP site 511. *Paleoceanography*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10831**

**Bower, A. S., B. LeCann, T. Rassby, W. Zenk, J. Gould, K. Speer, P. L. Richardson, M. O. Praler, and H. M. Ehang**

Directly-measured mid-depth circulator in the northeastern North Atlantic Ocean. *Nature*, IN PRESS.

Department of WHOI Author: PO.

**Canales, J. Pablo, Robert S. Detrick, Douglas R. Toomey, and William S. D. Wilcock**

Sement-scale variations in crustal structure of 150- to 300-k.y.-old fast spreading oceanic crust (East Pacific Rise, 8°15'N-10°15'N) from wide-angle seismic refraction profiles. *Geophys.J.Int.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10825**

**Clift, Peter D., Amy E. Draut, Robyn Hannigan, Graham Layne, and Jerzy Blusztajn**

Trace elements and Pb isotopic constraints on the Provenance of the Rosroe and Derryveeny formations, South Mayo, Ireland. *Trans.R.Soc.Edinb., Earth Sci.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10819**

**Edwards, Katrina J., Tom McCollom, Hiromi Konishi, and Peter R. Buseck**

Seafloor bio-alteration of sulfide minerals: results from in-situi incubation studies.

*Geochim.cosmochim.Acta*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10816**

**Elgar, Steve, Britt Raubenheimer, and T. H. C. Herbers**

Bragg reflection of ocean waves from sandbars. *Nature*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10826**

**Francis, David T. I., Kenneth G. Foote, and Victoria R. Starczak**

Depth-dependent target strengths of gadoids by the boundary-element method.

*J.Acoust.Soc.Am.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10839**

**Francois, R., S. Monjo, R. Krishfield, and S. Manganini**

Factors controlling the flux of organic carbon to the bathypelagic zone of the ocean.

*Glob.Biogeochem.Cycles*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10628**

**Frysjinger, Glenn S., Richard B. Gaines, L. Xu, and Christopher M. Reddy**

Resolving the unresolved complex mixture in petroleum-contaminated sediments.

*Environ.Sci.Technol.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10834**

**Gast, Rebecca J., David J. Beaudoin, and David A. Caron**

Isolation of symbiotically expressed genes from the dinoflagellate symbiont of the solitary radiolarian, *Thalassicolla nucleata*. *Biol.Bull.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10815**

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

PCR amplification of microalgal DNA for sequencing and species identification; studies on fixatives and algal growth stages. *Biotechniques*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10779**

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

Flow cytometric determination of size and complex refractive index for marine particles: comparison with bulk measurements. *Appl.Opt.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10718**

**Halanych, K. M., T. G. Dahlgren, and D. McHugh**

Unsegmented annelids? Possible origins of four lophotrochozoan worm taxa. *Integr.Comp.Biol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10762**

**Harding, Karin C., Tero Harkonen, and Hal Caswell**

The 2002 European seal plague: epidemiology and population consequences. *Ecology Lett.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10832**

**Helfrich, Karl R. and Jesus Pineda**

Accumulation of particles in propagating fronts. *Limnol.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10818**

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

Spatio-temporal variation in Markov chain models of subtidal community succession. *Ecology Lett.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10766**

**Hill, R. W., J. W. H. Dacey, and A. Edward**

Dimethylsulfoniopropionate in six species of giant clams and the evolution of dimethylsulfide after death. *Can.J.Fish.Aquat.Sci.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10821**

**Hints, Eric J., John W. H. Dacey, Wade R. McGillis, James B. Edson, Christopher J. Zappa, and Hendrick J. Zemmellink**

Sea-to-air fluxes from measurements of the atmospheric gradient of dimethylsulfide and comparison with simultaneous relaxed eddy accumulation measurements.

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

Department of WHOI Author: AOPE.

Contribution Number: **10813**

**Huang, Rui Xin and Wei Wang**

Gravitational potential energy sinks/sources in the oceans. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10824**

**Jayne, Steven R., John M. Wahr, and Frank O. Bryan**

Observing ocean heat content using satellite gravity and altimetry. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10840**

**Kase, R. H., J. B. Girton, and T. B. Sanford**

Structure and variability of the Denmark Strait overflow: model and observations.

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

Department of WHOI Author: PO.

Contribution Number: **10817**

**Kenna, Timothy C.**

Determination of plutonium isotopes and neptunium-237 in environmental samples by inductively coupled plasma mass spectrometry with total sample dissolution.

*J.Anal.At.Spectrom.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10830**

**Lavery, And one C., Timothy K. Stanton, and Peter H. Wiebe**

Variability in high-frequency acoustic backscattering in the water column. In:  
*Proceedings of the Acoustic Variability Conference 2002, 16-20 September 2002,*  
*Lerici, La Spezia, Italy*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10703**

**Meyer, Joel N., Deena M. Wassenberg, Sibel I. Karchner, Mark E. Hahn, and  
Richard T. Di Giulio**

Expression and inducibility of aryl hydrocarbon receptor (AHR) pathway genes in wild-  
caught killifish (*Fundulus heteroclitus*) from a creosote-contaminated site.

*Environ.Toxicol.Chem.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10838**

**Moore, Jon A.**

Upside-down swimming behavior in a whipnose anglerfish (*Teleostei: Ceratiodei:*  
*Gigantactinidae*). *Copeia*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10668**

**Moore, Michael, Lisa Steiner, and Beatrice Jann**

Cetacean distribution in Cape Verdean waters and the use of *Isistius sp.* bite lesions as  
a population marker for fin whales *Balaenoptera pycnosialis*. *Mar.Mamm.Sci.*, IN  
PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10828**

**Mullineaux, L. S., K. G. Speer, A. M. Thurnherr, M. E. Maltrud, and A. Vangriesheim**

Implications of cross-axis flow for larval dispersal along mid-ocean ridges.

*Cah.Biol.Mar.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10809**

**Neubert, Michael G., Petra Klepac, and P. van den Driessche**

Stabilizing dispersal delays in predator-prey metapopulation models.

*Theor.Popul.Biol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10653**

**Ohkoichi, N., T. I. Eglinton, L. D. Keigwin, and J. M. Hayes**

Spatial and temporal offsets between proxy records in a sediment drift. *Science*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10820**

**Parks, Susan**

Response of North Atlantic right whales (*Eubalaena glacialis*) to playback of calls from surface active groups recorded in both the North and South Atlantic.

*Behav.Ecol.Sociobiol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10659**

**Podar, Mircea, Lauren Mullineaux, Hon-Ren Huang, Philip S. Perlman, and Mitchell L. Sogin**

Bacterial group II introns in a deep sea hydrothermal vent environment.

*Appl.Environ.Microbiol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10836**

**Reeder, D. Benjamin, Daniel T. DiPerna, and Timothy K. Stanton**

Acoustic scattering by axisymmetric finite-length bodies: an extension of a Z-dimensional conformal mapping approach. *J.Am.Stat.Assoc.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10701**

**Shank, Timothy M. and Joel W. Martin**

A new caridean shrimp of the family *Alvinocarididae* from thermal vents at Menez Gwen on the Mid-Atlantic Ridge. *Proc.Biol.Soc.Wash.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10700**

**Shearman, R. Kipp and Steven J. Lentz**

Mean and subtidal currents on the New England shelf during coastal mixing and optics experiment, August 1996-June 1997. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10706**

**Shimeta, Jeff, Carl Amos, Stace Beaulieu, and Stephanie Katz**

Resuspension of benthic protists at sites with differing sediment composition in Buzzards Bay, Massachusetts. *Mar.Ecol.Prog.Ser.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10837**

**Thorrold, Simon R., Geoffrey P. Jones, Burton, Ronald S., Swearer, Stephen E., Neigel, Joseph E., Morgan, Steven G., and Warner, R. R.**

Quantifying larval retention and connectivity in marine populations with artificial and natural markers. *Bull.Mar.Sci.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10642**

**Tittlemier, Sheryl A., Sean W. Kennedy, Mark E. Hahn, and Ross J. Norstrom**

Naturally-produced halogenated dimethyl bipyrrroles bind to the Ah receptor and induce cytochrome P4501A and porphyrin accumulation in chicken embryo hepatocytes.

*Environ.Sci.Technol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10823**

**Weller, R. A., P. W. Furey, M. A. Spall, and R. E. Davis**

The large-scale context for oceanic subduction in the northeast Atlantic. *Deep-Sea Res.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10835**

**Wiebe, Peter H. and Mark C. Benfield**

From the Hensen net toward 4D biological oceanography. *Prog.Oceanogr.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10660**

**Yu, Zhiming, Mario R. Sengco, and Donald M. Anderson**

Flocculation and removal of the brown-tide organism, *Aureococcus anophagefferens* (Chrysophyceae), using clays *J.Appl.Phycol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10768**

**Zappa, Teray**

Variation in surface turbulence and the gas transfer velocity over a tidal cycle in a macro-tidal estuary. *Estuaries*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10720**

**Zemmelink, H. J., W. W. C. Gieskes, W. Klassen, H. W. de Groot, H. J. W. de Bear,  
J. W. H. Dacey, E. J. Hinton, and W. R. Mc Gillis**

Relaxed eddy accumulation measurements of the sea-to-air transfer of dimethyl/sulfide  
over the northeastern Pacific. *J. Geophys. Res. C.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10812**

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Compiled by: Ann Devenish  
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