



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles in Preparation - July 1999

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**Bains, Santo, Richard M. Corfield and Richard D. Norris.**

Mechanisms of climate warming at the end of the the Paleocene.  
*Science*, IN PRESS.  
Department of WHOI Author: GEOL.  
Contribution Number: **NONE**

**Benfield, Mark C., Cabell S. Davis, and Scott M. Gallager.**

Estimating the in-situ orientation of *Calanus finmarchicus* on Georges Bank using the video plankton recorder. *Plank.Biol.Ecol.*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **9974**

**Bernston, Ewann A., Frederick M. Bayer, Andrew G. McArthur, and Scott C. France.**

Phylogenetic relationships within the subclass Octocorallia (Phylum Cnidaria: class anthozoa), based on nuclear 18S rRNA sequences. *Mar.Biol.*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **9935**

**Buesseler, Ken O., Deborah K. Steinberg, Anthony F. Michaels, Rodney J. Johnson, John E. Andrews, James R. Valdes, and James F. Price.**

A comparison of the quantity and composition of material caught in a neutrally buoyant versus surface-tethered sediment trap. *Deep-Sea Res.I*, IN PRESS.  
Department of WHOI Author: MCG, PO.  
Contribution Number: **9889**

**Cenedese, Claudia and J. A. Whitehead.**

Eddy-shedding from a boundary current around a cape over a sloping bottom.

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

Department of WHOI Author: PO.

Contribution Number: **9987**

**Chang, Jubao and Raymond W. Schmitt.**

The impact of salt fingering on the thermohaline circulation under mixed boundary conditions. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **9971**

**Chu, Dezhang, Peter Wiebe, and Nancy Copley.**

Inference of material properties of zooplankton from acoustic and resistivity measurements. *ICES J.Mar.Sci.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **9988**

**Elder, Bob.**

A cruise with the ROV Jason. *INMARTECH '98 Conference*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **9948**

**Erdner, Deana L. and Donald M. Anderson.**

Ferredoxin and flavodoxin as biochemical indicators of iron limitation during open-ocean enrichment. *Limnol.Oceanogr.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9901**

**Ganeshram, Raja S., Stephen E. Calvert, Thomas F. Pedersen, and Gregory L. Cowie.**

Factors controlling the burial of organic-carbon in laminated and bioturbated sediments off NW Mexico: Implications to hydrocarbon preservation.

*Geochim.Cosmochim.Acta*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **NONE**

**Gobat, Jason I. and Mark A. Grosenbaugh.**

The dynamics of shallow water oceanographic moorings: Experimental and numerical results. *Oceans '99*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **9972**

**Gregg, Tracy K. P., Danile J. Fornari, Michael R. Perfit, W. Ian Ridley, and Mark D. Kurz.**

Using submarine lava pillars to record mid-ocean ridge eruption dynamics.

*Earth Planet.Sci.Lett.*, IN PRESS.

Department of WHOI Author: GEOL., MCG.

Contribution Number: **9977**

**Heppell, Selina S., Hal Caswell, and Larry B. Crowder.**

Elasticity patterns of age-based models: A comparative analysis using mammal life tables with implications for conservation of life history-types.

*Ecology*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9931**

**Hestermann, Eli V., John J. Stegeman, and Mark E. Hahn.**

Serum alters the uptake and relative potencies of halogenated aromatic hydrocarbons in a cell culture bioassay. *Toxicol.Sci.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9964**

**Holfort, Jurgen, Michael Vanicek, and Gerold Siedler.**

What causes long-term temporal changes in the South Atlantic?

*Geophys.Res.Lett.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **9966**

**Huang, Rui Xin, Mark A. Cane, Naomi Naik, and Paul Goodman.**

Global adjustment of the thermocline in response to deepwater formation.

*Geophys.Res.Lett.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **9968**

**Huang, Rui Xin and Joseph Pedlosky.**

Climate variability of the equatorial thermocline inferred from a two-moving-layer model of the ventilated thermocline. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **9979**

**Jin, Di and Hauke Kite-Powell.**

Optimal fleet utilization and replacement. *Transp.Res.Part E*, IN PRESS.

Department of WHOI Author: MPC.

Contribution Number: **9960**

**Karchner, Sibel I., Sean W. Kennedy, Suzanne Trudeau, and Mark E. Hahn.**

Towards a molecular understanding of species differences in dioxin sensitivity:  
Initial characterization of Ah receptor cDNAs in birds and an amphibian.

*Mar. Environ. Res.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9939**

**Karchner, Sibel I., Wade H. Powell, and Mark E. Hahn.**

Identification and functional characterization of two divergent aryl hydrocarbon  
receptors in the teleost *Fundulus heteroclitus*. Evidence for a novel subfamily of  
ligand-binding bHLH-PAS factors. *J. Biol. Chem.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9985**

**Lentz, Steven, Matthew Carr, and T. H. Herbers.**

Barotropic tides on the North Carolina shelf. *J. Geophys. Res.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **9967**

**Mann, K. K., R. A. Matulka, M. E. Hahn, A. F. Trombino, B. P. Lawrence,  
N. I. Kerkvliet, and D. H. Sherr.**

The role of polycyclic aromatic hydrocarbon metabolism in  
dimethylbenz[a]anthracene-induced pre-B lymphocyte apoptosis.

*Toxicol. Appl. Pharmacol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9913**

**Miksis, Jennifer L., Matthew D. Grund, and Douglas P. Nowacek.**

Acoustic detection and measurement of heart rate. *Mar. Mamm. Sci.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9917**

**Neubert, Michael G. and Hal Caswell.**

Density-dependent vital rates and their population dynamic consequences.

*Bull. Math. Biol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9907**

**Olson, R. J., H. M. Sosik, and A. M. Chekalyuk.**

Photosynthetic characteristics of marine phytoplankton from pump-during-probe  
fluorometry of individual cells at sea. *Cytometry*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9926**

**Pickart, Robert S.**

Bottom boundary layer structure and detachment in the shelfbreak jet of the Middle Atlantic Bight. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **9965**

**Powell, Wade H. and Mark E. Hahn.**

The evolution of aryl hydrocarbon signaling proteins: Diversity of ARNT isoforms among fish species. *Mar.EnvIRON.Res.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9938**

**Schander, Christoffer and Per Sundberg.**

Useful characters in gastropod phylogeny-soft information or hard facts? *Syst.Biol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9946**

**Schander, Christoffer, Jacobus J. van Aartsen, and James X. Corgan.**

Families and genera of the Pyramidelloidea (mollusca: gasropoda).

*Boll.Malacol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9986**

**Schlezinger, Jennifer J. and John J. Stegeman.**

Induction cytochrome P450 1A in the American eel by model halogenated and non-halogenated aryl hydrocarbon receptor agonists. *Aquat.Toxicol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9981**

**Schlezinger, Jennifer J., Jennifer Jackson, and John J. Stegeman.**

3,3',4,4'-Tetrachlorobiphenyl oxidation in fish, bird and reptile species:

Relationship to cytochrome P450 1A inactivation and reactive oxygen production.

*Comp.Biochem.Physiol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9954**

**Schlezinger, Jennifer J., William D. J. Struntz, and John J. Stegeman.**

Oxidative inactivation of cytochrome P450 1A and production of reactive oxygen stimulated by halogenated aryl hydrocarbon receptor agonists.

*Biochem.Pharmacol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9955**

**Smith, Woolcott, Andrew Solow, and Clara Chu.**

An index of the contribution of spatial heterogeneity to the species accumulation curve. *Ecology*, IN PRESS.

Department of WHOI Author: MPC.

Contribution Number: **9959**

**Solow, Andrew R. and Woolcott K. Smith.**

Testing for a mass extinction event without selecting taxa.

*Paleobiology*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9975**

**Sosik, Heidi M.**

Storage of marine particulate samples for light absorption measurements.

*Limnol.Oceanogr.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **9877**

**Stokey, R., T. Austin, C. von Alt, M. Purcell, R. Goldsborough, N. Forrester, and B. Allen.**

AUV bloopers or why Murphy must have been an optimist: A practical look at achieving mission level reliability in an autonomous underwater vehicle.

*11th International Symposium on Unmanned, Untethered Submersible Technology (UUST '99)*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **9970**

**Yoerger, Dana R., Albert M. Bradley, Marie-Helene Cormier, William B. F. Ryan, and Barrie Walden.**

High resolution mapping of a fast spreading mid ocean ridge with the autonomous benthic explorer.

In: *11th International Symposium on Unmanned Untethered Submersible Technology (UUST99), Durham, NH, August 22-25, 1999*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **9980**

**Yoerger, Dana R. and John R. Delaney.**

Fine-scale three dimensional mapping of a deep-sea hydrothermal vent site using the Jason ROV system. In: *International Conference on Field and Service Robotics (FSR '99), August '99*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **9983**

**Zhang, Shuliang, Albert J. Plueddemann, Steven P. Anderson,  
and Robert A. Weller.**

Surface fluxes and their influence on sea surface temperature in the Western  
Equatorial Pacific during COARE. *J. Geophys. Res.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **9978**

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