



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles in Preparation – December 2003

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**Abraham, D. R., M. A. Charette, M. C. Allen, A. Rago, and K. D. Kroeger**

Radiochemical estimates of submarine groundwater discharge to Waquoit Bay, Massachusetts. *Biol.Bull.*, IN PRESS.

Department of WHOI Author: MCG.

**Ashjian, C., C. Davis, S. M. Gallager, and P. Alatalo**

Characterization of the zooplankton community, size composition, and distribution in relation to hydrography in the Japan/East Sea. *Deep-Sea Res.*, IN PRESS.

Department of WHOI Author: BIO.

**Ashjian, C. J., G. A. Rosenwaks, P. H. Wiebe, C S. Davis, S. M. Gallager, N. J. Copley, G. I. Lawson, and P. Alatalo**

Distribution of zooplankton on the continental shelf of Marguerite Bay, Antarctic peninsula during austral fall and winter, 2001. *Deep-Sea Res.*, IN PRESS.

Department of WHOI Author: BIO.

**Bath Martin, G. E., S. R. Thorrold, and C. M. Jones**

The influence of temperature and salinity on strontium uptake in the otoliths of juvenile spot (*Leiostomus xanthurus*). *Can.J.Fish.Aquat.Sci.*, IN PRESS.

Department of WHOI Author: BIO.

**Benitez-Nelson, C. R., and M. A. Charette**

Uncertainty versus variability in ocean carbon flux estimates. *Limnol.Oceanogr.*, IN PRESS.

Department of WHOI Author: MCG.

**Brink, K. H.**

Coastal physical processes overview. In: *The Sea*. Kenneth H. Brink and Alan R. Robinson, eds. New York, NY: John Wiley & Sons, Inc., IN PRESS.

Department of WHOI Author: PO.

**Caswell, H., and T. Takada**

Elasticity analysis of density-dependent matrix population models: The invasion exponent and its substitutes. *Theor.Popul.Biol.*, IN PRESS.

Department of WHOI Author: BIO.

**Chen, C., Q. Xu, and R. Beardsley**

Model study of the cross-frontal water exchange on Georges Bank: A 3-D lagrangian experiment. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: PO.

**Churchill, J. H., W. C. Kerfoot, and M. T. Auer**

Exchange of water between the Keweenaw Waterway and Lake Superior: Characteristics and forcing mechanisms. *J.Great Lakes Res.*, IN PRESS.

Department of WHOI Author: PO.

**Cleveland, R., A. Cohen, R. Roy, H. Singh, and T. Szabo**

Imaging coral II: Advances in imaging of coral skeletons using ultrasound. *Subsurface Sensing Technologies and Applications*, IN PRESS.

Department of WHOI Author: AOPE.

**Fredricks, Andrew, John A. Colosi, James F. Lynch, Glen Gawarkeiwicz, Ching-Sang Chiu, and Philip Abbot**

Analysis of multipath scintillations observed during the summer 1996 New England shelfbreak PRIMER study. *J.Acoust.Soc.Am.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **11065**

**Freville, H., B. Colas, M. Riba, H. Caswell, A. Mignot, E. Inbert, and I. Olivieri**

Spatial and temporal demographic variability in small populations of the endemic plant species *Centaurea corymbosa* (Asteraceae). *Ecology*, IN PRESS.

Department of WHOI Author: BIO.

**Galac, Madeline, Deana Erdner, Don M. Anderson, and Sonya T. Dyhrman**

Molecular quantification of toxic Alexandrium fundyense in the Gulf of Maine. *Biol.Bull.*, IN PRESS.

Department of WHOI Author: BIO.

**Gast, R. J., M. R. Dennett, and D. A. Caron**

Characterization of protistan assemblages in the Ross Sea, Antarctica by denaturing gradient gel electrophoresis. *Appl.EnvIRON.Microbiol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **11028**

**Goodman, J. C., G. C. Collins, J. Marshall, and R. T. Pierrehumbert**

Hydrothermal plume dynamics on Europa: Implications for chaos formation. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: PO.

**Goodman, J. C., G. C. Collins, J. Marshall, and R. T. Pierrehumbert**

Glacial flow of floating marine ice in 'Snowball Earth'. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: PO.

**Grachev, A. A., C. W. Fairall, J. E. Hare, and J. B. Edson**

Wind stress vector over ocean waves. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: AOPE.

**Hare, J. E., C. W. Fairall, W. R. McGillis, B. Ward, and R. Wanninkhof**

Evaluation of the NOAA/COARE air-sea gas transfer parameterization using GasEx-2001 data. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: AOPE.

**Hints, E. J., H. J. Zemmeling, J. W. H. Dacey, J. Stefels, and C. Jacobs**

Sea-to-air fluxes of DMS in the coastal and open ocean from micrometeorological measurements, and variability of DMS in the surface water flux footprint. *Atmos.Environ.*, IN PRESS.

Department of WHOI Author: BIO.

**Ho, D. S., C. J. Zappa, W. R. McGillis, L. F. Bliven, J. W. H. Dacey, B. Ward, P. Schlosser, and M. B. Hendricks**

Influence of rain on air-sea gas exchange: Lessons from a model ocean. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: AOPE. BIO.

**Huang, Rui Xin**

Ocean, energy flows in. In: *Encyclopedea of Energy*. Cutler J. Cleveland, ed. San Diego, CA: Elsevier, IN PRESS.

Department of WHOI Author: PO.

**Hunt, Heather L., Anna Metaxas, Robert M. Jennings, Kenneth M. Halanych, and Lauren S. Mullineaux**

Successional mechanism varies along a gradient in hydrothermal fluid flux at deep-sea vents. *Deep-Sea Res.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **11024**

**Hunt, Heather L., Anna Metaxas, Robert M. Jennings, Kenneth M. Halanych, and Lauren S. Mullineaux**

Testing biological control of colonization by vestimentiferan tubeworms at deep-sea hydrothermal vents (East Pacific Rise, 9°50'N). *Deep-Sea Res.*, IN PRESS.  
Department of WHOI Author: BIO.

**Jiang, Houshuo, and Gustav-Adolf Paffenhofer**

Relation of behavior of copepod juveniles to potential predation by omnivorous copepods: An empirical-modeling study. *Mar.Ecol.Prog.Ser.*, IN PRESS.  
Department of WHOI Author: AOPE.  
Contribution Number: **11066**

**Kremp, A., D. H. Shull, and D. M. Anderson**

Effects of deposit-feeder gut passage and fecal pellet encapsulation on germination of dinoflagellate resting cysts. *Mar.Ecol.Prog.Ser.*, IN PRESS.  
Department of WHOI Author: BIO.  
Contribution Number: **11015**

**Lawson, G., P. Wiebe, C. Ashjian, S. Gallager, and C. Davis**

Acoustically-inferred zooplankton distribution in relation to hydrography west of the Antarctic Peninsula. *Deep-Sea Res.*, IN PRESS.  
Department of WHOI Author: BIO.

**Li, Xingwen**

Constraining the North Atlantic circulation with between 4.5°S and 39.5°N with transient tracer observations. *J.Geophys.Res.*, IN PRESS.  
Department of WHOI Author: AOPE.

**Li, Xingwen**

An adjoint sensitivity study of chlorofluorocarbons in the North Atlantic. *J.Geophys.Res.*, IN PRESS.  
Department of WHOI Author: AOPE.

**Lilly, E. L., K. Halanych, and D. M. Anderson**

Phylogeny of the toxic dinoflagellate genus *Alexandrium* (Dinophyceae). *J.Phycol.*, IN PRESS.  
Department of WHOI Author: BIO.

**Martins, C. A., D. M. Kulis, S. Franca, and D. M. Anderson**

The loss of saxitoxin production in a formerly toxic *Alexandrium lusitanicum* clone. *Toxicon*, IN PRESS.  
Department of WHOI Author: BIO.

**Marvier, M., P. Kareiva, and M. G. Neubert**

Habitat destruction, fragmentation, and disturbance promote invasion by habitat generalists in a multispecies metapopulation. *Risk Anal.*, IN PRESS.

Department of WHOI Author: BIO.

**Mullineaux, L. S., M. G. Neubert, and M. F. Hill**

Metapopulation ecology of deep-sea hydrothermal vents. In: *Marine Metapopulation Dynamics*. J. Kritzer and P. Sale, eds. Academic Press, IN PRESS.

Department of WHOI Author: BIO.

**Neubert, M. G., and I. M. Parker**

Projecting rates of spread for invasive species. *Risk Anal.*, IN PRESS.

Department of WHOI Author: BIO.

**Niehoff, Barbara, and Jeffrey Runge**

A revised methodology for prediction of egg production by the marine planktonic copepod, *Calanus finmarchicus*, from preserved samples. *J. Plankton Res.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **11039**

**Nowacek, D. P., M. P. Johnson, and P. L. Tyack**

North Atlantic right whales (*Eubalaena glacialis*) ignore ships but respond to alarm stimuli. *Proc. R. Soc. Lond. Ser. B. Biol. Sci.*, IN PRESS.

Department of WHOI Author: BIO. AOPE.

Contribution Number: **11011**

**Olli, Kalle**

Temporary cyst formation of *Heterocapsa triquetra* (Dinophyceae) in natural populations. *Mar. Biol.*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **11067**

**Orchard, Elizabeth, Eric Webb, and Sonya T. Dyhrman**

Characterization of phosphorus-regulated genes in *Trichodesmium* spp.. *Biol. Bull.*, IN PRESS.

Department of WHOI Author: BIO.

**Orlova, T. Yu, T. V. Morozovaa, K. E. Gribble, D. M. Kulis, and D. M. Anderson**

Dinoflagellate cysts in recent marine sediments from the east coast of Russia. *Bot. Mar.*, IN PRESS.

Department of WHOI Author: BIO.

**Persich, G. da R., D. M. Kulis, D. M. Anderson, and V. M. T. Garcia**

Toxicity of *Alexandrium tamarense* from southern Brazil. *J.Coast.Res.*, IN PRESS.

Department of WHOI Author: BIO.

**Pratt, L. J.**

Recent progress on understanding the effects of rotation in models of sea straits. *Deep-Sea Res.*, IN PRESS.

Department of WHOI Author: PO.

**Ramcharitar, J., X. Deng, D. K. Ketten, and A. N. Popper**

Form and function in the unique auditory system of silver perch (*Bairdiella chrysoura*). *J.Compl.Neurol.*, IN PRESS.

Department of WHOI Author: BIO.

**Rosenheim, B. E., P. K. Swart, S. R. Thorrold, P. Willenz, L. Berry, and C. Latkoczy**

High resolution Sr/Ca records in sclerosponges calibrated to temperature in situ. *Geology*, IN PRESS.

Department of WHOI Author: BIO.

**Saito, M. A., D. Sigman, and F. M. M. Morel**

The bioinorganic chemistry of the ancient ocean: The con-evolution of cyanobacteria and biogeochemical cycles at the archean-proterozoic boundary? *Inorg.Chim.Acta*, IN PRESS, .

Department of WHOI Author: MCG.

**Singh, H., R. Armstrong, F. Gilbes, R. Eustice, C. Roman, O. Pizarro, and J. Torres**

Imaging coral I: Imaging coral habitats with the SeaBED AUV. *Subsurface Sensing Technologies and Applications*, IN PRESS.

Department of WHOI Author: AOPE.

**Spall, M.**

Islands in zonal flow. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

**Suga, T., K. Motoki, and A. M. Macdonald**

The north Pacific climatology of winter mixed layer and mode waters. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: PO.

**Timmermans, M.-L. E., C. Garrett, and E. Carmack**

The thermohaline structure and evolution of the deep waters in the Canada Basin, Arctic Ocean. *Deep-Sea Res.*, IN PRESS.

Department of WHOI Author: PO.

**Ward, B., C. McNeil, and W. R. McGillis**

Simultaneous observations of oxygen, nitrogen, and carbon dioxide in a coastal environment. *Geophys.Res.Lett.*, IN PRESS.  
Department of WHOI Author: AOPE.

**Ward, B., and P. J. Minnett**

Observations of diurnal warming. *J.Geophys.Res.*, IN PRESS.  
Department of WHOI Author: AOPE.

**Ward, B., R. Wanninkhof, P. J. Minnett, and M. Head**

SkinDeEP: A profiling instrument for upper decameter sea surface measurements. *J.Atmos.Ocean.Technol.*, IN PRESS.  
Department of WHOI Author: AOPE.

**Ward, B., R. Wanninkhof, P. J. Minnett, and W. R. McGillis**

The effect of the skin temperature on the global flux of CO<sub>2</sub> from in-situ observations. *J.Geophys.Res.*, IN PRESS.  
Department of WHOI Author: AOPE.

**Webb, J. F., E. Shearman, R. Walsh, D. R. Ketten, and J. L. Herman**

Inner ear and swim bladder morphology associated with a novel sensory specialization in chaetodontid fishes. *Comp.Integr.Biol.*, IN PRESS.  
Department of WHOI Author: BIO.

**Weinstock, E. M., and E. J. Hints**

Water vapor sondes. In: *Encyclopedia of Atmospheric Sciences*. James R. Holton, John Pyle, and Judith A. Curry, eds. London: Academic Press, IN PRESS.  
Department of WHOI Author: MCG.

**Yang, Jiayan, Josefino Comiso, David Walsh, Richard Krishfield, and Susumu Honjo**

Storm-driven mixing and potential impact on the Arctic Ocean. *J.Geophys.Res.*, IN PRESS.  
Department of WHOI Author: PO.  
Contribution Number: **11071**

**Zeng, Hui-Hui, Richard Thompson, Badri P. Maliwal, Gary Fones, James Moffett, and Carol Fierke**

Real-time determination of picomolar free Cu(II) in seawater using a fluorescence-based fiber optic biosensor. *Anal.Chem.*, IN PRESS.  
Department of WHOI Author: MCG.  
Contribution Number: **11056**

**Zimmer, Walter M. X., Peter L. Tyack, and Mark Johnson**

3-dimensional beam pattern of regular sperm whale clicks. *Nature*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **11019**

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