



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles in Preparation – March 2001

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Foote, Kenneth G.

Pilot census of marine life in the Gulf of Maine: Status.

In: *Proceedings of Oceanology International, 2001*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10411**

**Frew, Nelson M., Robert K. Nelson, Wade R. McGillis, James B. Edson,
Erik J. Bock, and Tetsu Hara.**

Spatial variations in surface microlayer surfactants and their role in modulating air-sea exchange. In: *Geophysical Monograph Series. Gas Transfer at Water Surfaces*, M. A. Donelan, W. M. Drennan, E. S. Saltzman and P. Wanninkhof, eds. American Geophysical Union, Washington D. C., IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10337**

Huang, Rui Xin and Joseph Pedlosky.

On aliasing Rossby waves induced by asynchronous time stepping. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10423**

Kenna, T. C. and F. L. Sayles.

The distribution and history of nuclear weapons related contamination in sediments from the Ob River, Siberia as determined by isotopic ratios of plutonium, neptunium.

J.Environ.Radioact., IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10380**

Kim, Eun-Young and Mark E. Hahn.

cDna cloning and characterization of an aryl hydrocarbon receptor as a biomarker of dioxin susceptibility in harbor seals (*Phoca vitulina*).

Aquat.Toxicol., IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **10418**

Koeberl, Christian, Bernhard Peucer-Ehrenbrink, Wolf Uwe Reimold, Alex Shukolyukov, and Gunter W. Lugmair.

A comparison of the osmium and chromium isotopic methods for the detection of meteoritic components in impactites: Examples from the Morokweng and Vredefort impact structures, South Africa.

In: *Geological Society of America Special Paper*, IN PRESS.

Department of WHOI Author: MCG

Contribution Number: **10410**

McElroy, Marguerite K., James B. Edson, Thomas C. Austin, Wade R. McGillis, and Michael J. Purcell.

Underwater observatories: The challenges and promise of applying off-shore cable technology to long-term environmental studies. In: *Underwater Intervention 2001 Conference Proceedings*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10426**

Miller, P. D., L. J. Pratt, K. R. Helfrich, and C. K. R. T. Jones.

Chaotic transport of mass and potential vorticity for an island recirculation.

J.Phys.Oceanogr., IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **10422**

Norris, Richard D. and Hiroshi Nishi.

Evolutionary trends in coiling of tropical Paleogene planktic foraminifera.

Paleobiology, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

Petsch, S. T., R. J. Smernik, T. I. Eglinton, and J. M. Oades.

A solid state ¹³C NMR study of kerogen degradation during black shale weathering.

Geochim.Cosmochim.Acta, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10382**

Peucker-Ehrenbrink, Bernhard and Greg Ravizza.

The marine osmium isotope record. *Terra Nova*, IN PRESS.
Department of WHOI Author: MCG.
Contribution Number: **NONE**

Proshutinsky, Andrey.

Sea level rise in the Arctic Ocean. *Geophys.Res.Lett.*, IN PRESS.
Department of WHOI Author: PO.
Contribution Number: **10420**

Seewald, Jeffrey S.

A model for the origin of carboxylic acids in basinal brines.
Geochim.Cosmochim.Acta, IN PRESS.
Department of WHOI Author: MCG.
Contribution Number: **10377**

Seewald, Jeffrey S.

Aqueous geochemistry of low molecular weight hydrocarbons at elevated temperatures and pressures: Constraints from mineral buffered laboratory experiments.
Geochim.Cosmochim.Acta, IN PRESS.
Department of WHOI Author: MCG.
Contribution Number: **10378**

Shaw, W. J. and J. H. Trowbridge.

The direct estimation of near-bottom turbulent fluxes in the presence of energetic wave motions. *J.Atmos.Ocean.Technol.*, IN PRESS.
Department of WHOI Author: AOPE.
Contribution Number: **10416**

Shaw, W. J., J. H. Trowbridge, and A. J. Williams, III.

The budgets of turbulent kinetic energy and scalar variance in the continental shelf bottom boundary layer. *J.Geophys.Res.*, IN PRESS.
Department of WHOI Author: AOPE.
Contribution Number: **10417**

Solow, Andrew R. and Laura J. Moore.

Testing for trend in North Atlantic hurricane activity, 1900-1998.
J.Clim., IN PRESS.
Department of WHOI Author: MPC.
Contribution Number: **10413**

Tyack, Peter L.

Cetacean culture: Humans of the sea?. *Behav.Brain Sci.*, IN PRESS.
Department of WHOI Author: BIO.
Contribution Number: **NONE**

Weller, R. A., A. S. Fischer, D. L. Rudnick, C. C. Eriksen, T. D. Dickey, J. Marra, C. Fox, and R. Leben.

Moored observations of upper ocean response to the monsoon in the Arabian Sea during 1994-1995. *Deep-Sea Res.*, IN PRESS.
Department of WHOI Author: PO.
Contribution Number: **10421**

Whelan, Jean K., Mahlon C. Kennicutt II, Lorraine Eglinton, and Yaorong Qian.

Short time-scale (years) variation of petroleum fluids from the U. S. Gulf Coast. *Geochim.Cosmochim.Acta*, IN PRESS.
Department of WHOI Author: MCG.
Contribution Number: **10381**

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

Measuring low-level dissolved carbon monoxide in natural waters using a validated headspace method, non-plastic samplers, and contamination control. *Mar.Chem.*, IN PRESS.
Department of WHOI Author: MCG.
Contribution Number: **10379**

Xie, Huixiang, Oliver C. Zafiriou, Wei Wang, and Craig D. Taylor.

An automated segmented-continuous-flow-equilibration method for in-situ measurement of dissolved carbon monoxide in natural waters. *Environ.Sci.Technol.*, IN PRESS.
Department of WHOI Author: MCG.
Contribution Number: **10374**

Yoerger, Dana R., Pamela G. Murray, and Fritz Stahr.

Estimating the vertical velocity of buoyant deep-sea hydrothermal plumes through dynamic analysis of an autonomous vehicle. *IEEE/RSJ IRO 2001 Conference*, IN PRESS.
Department of WHOI Author: AOPE.
Contribution Number: **10414**

Yu, E.-F., R. Francois, M. P. Bacon, and A. P. Fleer.

Fluxes of ^{230}Th and ^{231}Pa to the deep sea: Implications for the interpretation of excess ^{230}Th and $^{231}\text{Pa}/^{230}\text{Th}$ profiles in sediments.

Earth Planet.Sci.Lett., IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10409**

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April 4, 2001