



## WHOI Contributions to the Scientific Literature Monthly Activity Report

### Articles in Preparation – January 2004

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**Anderson, Erik J., and Mark A. Grosenbaugh**

Jet flow in steadily swimming adult squid. *J.Exp.Biol.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **11084**

**Behn, Mark D., Jian Lin, and Maria T. Zuber**

Effects of hydrothermal cooling and magma injection on mid-ocean ridge temperature structure, deformation, and axial morphology. In: *The Thermal Structure of the Oceanic Crust and Dynamics of Hydrothermal Circulation*. C. R. German, J. Lin, and L. M. Parson.

Washington, DC: AGU, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **11090**

**Benthien, Albert, Robert Schneider, Karl von Reden, Mark Roberts, John Hayes, John, Wills, and Van Griffin**

A programmed-temperature combustion system for continuous-flow AMS. In: *Proceedings of 18th International Radiocarbon Conference, Wellington, New Zealand, Sept. 1-5, 2003*, IN PRESS.

Department of WHOI Author: GEOL.

**Bjork, Goran, and Peter Winsor**

Geothermal heat flow induced deep water mixing in the Eurasian Basin, Arctic Ocean.

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

Department of WHOI Author: PO.

Contribution Number: **11081**

**Brink, Kenneth H., and Allan R. Robinson**

*The Sea, Vol. 13 & 14.* Kenneth H. Brink and Alan R. Robinson, eds. New York, NY: John Wiley & Sons, Inc., IN PRESS.

Department of WHOI Author: PO.

**Canales, J. P., B. Tucholke, and J. A. Collins**

Seismic reflection imaging of a young megamullion: Atlantis Massif (Mid-Atlantic Ridge, 30°10'N. *Earth Planet.Sci.Lett.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **11087**

**Chen, Yongshun John, and Jian Lin**

High sensitivity of ocean ridge thermal structure to changes in magma supply: The Galapagos Spreading Center. *Earth Planet.Sci.Lett.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **11088**

**Clift, P. D., and P. Vannucchi**

Controls on tectonic accretion versus erosion in subduction zones: Implications for the origin and recycling of the continental crust. *Rev.Geophys.*, IN PRESS.

Department of WHOI Author: GEOL.

**Colosi, John A., Arthur B. Baggeroer, Matthew A. Dzieciuch, Bruce D. Cornuelle, Walter H. Munk, Peter F. Worcester, Brian D. Duchaw, Bruce M. Howe, James A. Mercer, Robert C. Spindel, Theodore G. Birdsall, Kurt Metzger, and Andrew M. G. Forbes**

Analysis of multipath acoustic field variability and coherence for broadband basin-scale transmissions in the North Pacific Ocean. *J.Acoust.Soc.Am.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **11073**

**Donnelly, Jeffrey P., Peter Cleary, Paige Newby, and Robert Ellinger**

Coupling instrumental and geological records of sea-level change: Evidence from southern New England of an increase in the rate of sea-level rise in the late 19th century. *Geophys.Res.Lett.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **11072**

**Gawarkiewicz, Glen G., Joe Wang, Michael Caruso, Steve Ramp, Kenneth Brink, and Frank Bahr**

Shelfbreak circulation and thermohaline structure in the northern South China Sea - contrasting spring conditions in 2000 and 2001. *IEEE J.Oceanic Eng.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **11075**

**German, Christopher R., and Jian Lin**

The thermal structure of the oceanic crust, ridge spreading, and hydrothermal circulation: How well do we understand their inter-connections? In: *The Thermal Structure of the Oceanic Crust and Dynamics of Hydrothermal Circulation*. C. R. German, J. Lin, and L. M. Parson. Washington, DC: AGU, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **11092**

**Girton, James B.**

Denmark Strait eddies and overflow variability. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **11078**

**Hahn, Mark E., Rebeka R. Merson, and Sibel I. Karchner**

Xenobiotic receptors in fishes: Structural and functional diversity and evolutionary insights. In: *Biochemical and Molecular Biology of Fishes, Vol. 6 Environmental Toxicology*. T. W. Moon and T. P. Mommsen, eds., IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **11037**

**Hardebeck, Jeanne L., John Boatwright, Douglas Dreger, Rakesh Goel, Vladimir Graizer, Kenneth Hudnut, Chen Ji, Lucile Jones, John Langbein, Jian Lin, Evelyn Roeloffs, Robert Simpson, Keith Stark, Ross Stein, and John C. Tinsley**

Preliminary report on the 22 December 2003 M6.5 San Simeon, California, earthquake. *Seismol.Res.Lett.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **11089**

**Hetland, R., and W. R. Geyer**

An idealized study of the structure of long, partially mixed estuaries. *J.Phys.Oceanogr.*, IN PRESS.

Department of WHOI Author: AOPE.

**Hogg, Nelson**

A zonal pathway for NADW in the South Atlantic. *J.Oceanogr.*, IN PRESS.

Department of WHOI Author: PO.

Contribution Number: **11080**

**Johnson, Mark, Peter T. Madsen, Walter M. X. Zimmer, Natacha Aguilar de Soto, and Peter L. Tyack**

Beaked whales echolocate on prey. *Nature*, IN PRESS.

Department of WHOI Author: BIO.

Contribution Number: **11069**

**Krishfield, Richard A., and Donald K. Perovich**

Spatial and temporal variability of oceanic heat flux to the Arctic ice pack. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **11083**

**Kurz, Mark D., Joshua Curtice, Dempsey E. Lott, III, and Andy Solow**

Rapid helium isotopic variability in Mauna Kea shield lavas from the Hawaiian Scientific Drilling Project. *Geochem. Geophys. Geosyst.*, IN PRESS.

Department of WHOI Author: MCG. MPC.

Contribution Number: **11086**

**Lynch, J., and M. Orr**

Low rrequency acoustic propagation through shallow water internal waves. In: *ONR Monograph on Internal Waves and Acoustics*, IN PRESS.

Department of WHOI Author: AOPE.

**Perez-Campos, X., J. J .McGuire, and G. Beroza**

Centroid time shift and apparent stress: Oceanic vs continental earthquakes. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: GEOL.

**Pizarro, O., R. Eustice, and H. Singh**

Relative pose estimation for instrumented, calibrated imaging platforms. In: *Proceedings of Digital Image Computing Techniques and Applications, 10-12 December 2003, Sydney, Australia*, IN PRESS.

Department of WHOI Author: AOPE.

**Tiwari, S., and S. M. Gallager**

Optimizing multiscale invariants for the identification of bivalve larvae. In: *Proceedings of IEEE International Conference on Image Processing, September 14-17, 2003, Barcelona, Spain*, IN PRESS.

Department of WHOI Author: BIO.

**Tiwari, S., and S. M. Gallager**

Machine learning and multiscale methods in the identification of bivalve larvae. In: *Proceedings of 9th International Conference on Computer Vision, 13-16 October 2003, Nice, France*, IN PRESS.

Department of WHOI Author: BIO.

**Van Ark, Emily, and Jian Lin**

Time variation in hotspot fluxes and isostatic compensation of the Hawaii-Emperor Seamount Chain in the Pacific Ocean. *J. Geophys. Res.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **11091**

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