



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles in Preparation – November 2002

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Ackert, Jr., Robert P., Brad Singer, Herve Guillou, Mike Kaplan, and Mark D. Kurz

Long-term cosmogenic ^3He production rates from $^{40}\text{Ar}/^{39}\text{Ar}$ and K-Ar dated patagonian lava flows at 47° . *Earth Planet.Sci.Lett.*, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10697**

Baines, Peter G. and J. A. Whitehead

On multiple states in single-layer flows. *Phys.Fluids*, IN PRESS.

Department of WHOI Author: PO.

Behn, Mark D.

Relationship between seismic P-wave velocity and the composition of anhydrous igneous and meta-igneous rocks. *Geochem.Geophys.Geosyst.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10780**

Carey, W., P. Cable, W. Seigmann, J. Lynch, and I. Rozenfeld

Measurement of sound transmission and signal gain in the Strait of Korea. *IEEE J.Oceanic Eng.*, IN PRESS.

Department of WHOI Author: AOPE.

Clift, Peter, Ingo Pecher, Nina Kukowski, and Andrea Hampel

Tectonic erosion of the Peruvian Forearc, Lima Basin, by subduction and Nazca Ridge collision. *Tectonics*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10789**

Foote, K. G. and T. K. Stanton

Observing Aquatic Organisms by Sound and Light, Springer-Verlag, IN PRESS.
Department of WHOI Author: AOPE.

Georgen, Jennifer E., Mark D. Kurz, Henry J. B. Dick, and Jian Lin

Low $^3\text{He}/^4\text{He}$ ratios in basalt glasses from the western Southwest Indian Ridge (10°-24°E).
Earth Planet.Sci.Lett., IN PRESS.
Department of WHOI Author: MCG.
Contribution Number: **10694**

Hoagland, P., K. M. Riaf, D. Jin, and H. L. Kite-Powell

A comparison of access systems for natural resources: Drawing lessons for ocean aquaculture in the U.S. Exclusive Economic Zone. In: *Open-Ocean Aquaculture: From Research to Commercial Reality*, C. Bridger and B. Costa-Pierce (eds.), Charleston, SC: World Aquaculture Society, IN PRESS.
Department of WHOI Author: MPC.

Jin, D., P. Hoagland and H. L. Kite-Powell

A model of the optimal scale of open-ocean aquaculture. In: *Open-Ocean Aquaculture: From Research to Commercial Reality*, C. Bridger and B. Costa-Pierce (eds.), Charleston, SC: World Aquaculture Society, IN PRESS.
Department of WHOI Author: MPC.

Jones, A. G. and Xavier Garcia

Okat Bay MT dataset case study: A lesson in dimensionality. *Geophysics*, IN PRESS.
Department of WHOI Author: AOPE.

Kite-Powell, H. L., P. Hoagland, D. Jin, and K. Murray

Economics of open ocean growout of shellfish in New England: Sea scallops and blue mussels. In: *Open-Ocean Aquaculture: From Research to Commercial Reality*, C. Bridger and B. Costa-Pierce (eds.), Charleston, SC: World Aquaculture Society, IN PRESS.
Department of WHOI Author: MPC.

Kite-Powell, H. L., P. Hoagland, D. Jin, and K. Murray

Open ocean growout of finfish in New England: A bioeconomic model. In: *Open-Ocean Aquaculture: From Research to Commercial Reality*, C. Bridger and B. Costa-Pierce (eds.), Charleston, SC: World Aquaculture Society, IN PRESS.
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Lee, Jae, Il, Peter D. Clift, Graham Layne, Joel Blum, and Ali Athar Khan

Sediment flux in the modern Indus River inferred from the trace element composition of detrital amphibole grains. *Sediment.Geol.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10829**

Makris, N., P. Ratilai, Y. Lai, and E. K. Scheer

The Geoclutter experiment: Remotely imaging subbottom geomorphology in shallow water. *J.Acoust.Soc.Am.*, IN PRESS.

Department of WHOI Author: AOPE.

McGillicuddy, D. J., L. A. Anderson, S. C. Doney, and M. E. Maltrud

Eddy-driven sources and sinks of nutrients in the upper ocean: Results from a 0.1° resolution model of the North Atlantic. *Glob.Biogeochem.Cycles*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10698**

Meinen, C. S., D. S. Luther, D. R. Watts, K. L. Tracey, A. D. Chave, and J. Richman

Combining inverted echo sounder and horizontal electric field recorder measurements to obtain absolute velocity profiles. *J.Atm.Oceanic Tech.*, IN PRESS.

Department of WHOI Author: AOPE.

Milkov, Alexei V., Roger Sassen, Tatiyane V. Apanasovich, and Farid G. Dadashev

Global gas flux from mud volcanoes: A significant source of fossil methane in the atmosphere and the ocean. *Geophys.Res.Lett.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10782**

Potty, G. R. and Lynch, J. F.

Inversion for sediment geoacoustic properties at the New England Bight. *J.Acoust.Soc.Am.*, IN PRESS.

Department of WHOI Author: AOPE.

Schneider, R. J., S-W. Kim, K. F. von Reden, J. M. Hayes, J. S. C. Wills, V. S. Griffin, A. L. Sessions, and S. Sylva

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Department of WHOI Author: GEOL.

Contribution Number: **10783**

Shah, A. K., A. H. Cormier, W. B. F. Ryan, W. Jin, J. Sinton, E. Bergmanis, J. Carlut, A. Bradley, and D. Yoerger

Episodic dike swarms inferred from near-bottom magnetic anomaly maps in the southern East Pacific Rise. *J.Geophys.Res.*, IN PRESS.

Department of WHOI Author: AOPE.

Stanton, Timothy K., D. Benjamin Reeder, and J. Michael Jech

Inference of fish orientation from broadband acoustic echoes. *ICES J.Mar.Sci.*, IN PRESS.

Department of WHOI Author: AOPE.

Contribution Number: **10788**

Techet, A., X. Yhang, M. Wolfgang, J. Kumph, F. Hover, D. Yue, M. Triantafyllou, E. Anderson, W. McGillis, and M. Grosenbaugh

Flow control of flexible-hull vehicles. In: *11th International Symposium on Unmanned Untethered Submersible Technology (UUST99), August 22-25, 1999, New England Center, Durham, New Hampshire, USA*, IN PRESS.

Department of WHOI Author: AOPE.

Tivey, Margaret

Environmental conditions with active seafloor vent structures: Sensitivity to vent fluid composition and fluid flow. In: *Subseafloor Biosphere at Mid-Ocean Ridges*, W. Wilcock, C. Cary, E. DeLong, D. Kelley, J. Baross (eds). Geophysical Monograph, American Geophysical Union, IN PRESS.

Department of WHOI Author: MCG.

Contribution Number: **10696**

Uchupi, E., S. A. Swift, and D. A. Ross

Morphology and Late Quaternary sedimentation in the Gulf of Oman Basin. *J.Geophys.Res.*, IN PRESS, .

Department of WHOI Author: GEOL.

Contribution Number: **10786**

von Reden, K., Elder, K., Gagnon, A., Gerlach, D., Griffin, V., Healy, R., Long, P., McNichol, A., Percy, D., Robert, M., Schneider, R., Xu, L., Hayes, J.

Plans for expanded ^{14}C analysis at the NOSAMS Facility: A status and progress report.

Nucl.Instr.Meth.B, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **10699**

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