



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles Received in January 2001

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Alley, R. B., P. U. Clark, L. D. Keigwin, and R. S. Webb.

Making sense of millennial-scale climate change. *Geophysical Monograph 112. Mechanisms of Global Climate Change at Millennial Time Scales.*

Peter U. Clark, Robert S. Webb and Lloyd D. Keigwin, eds. American Geophysical Union, Washington D. C., :385-394, 1999.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

Andrews, A. E., K. A. Boering, B. C. Daube, S. C. Wofsy, E. J. Hints, E. M. Weinstock, and T. P. Bui.

Empirical age spectra for the lower tropical stratosphere from in situ observations of Co₂: Implications for the stratospheric transport.

J.Geophys.Res., 104(21):26581-26595, 1999.

Department of WHOI Author: MCG.

Contribution Number: **NONE**

Andrews, S. S., S. Caron, and O. C. Zafiriou.

Photochemical oxygen consumption in marine waters: A major sink for colored dissolved organic matter. *Limnol.Oceanogr.*, 45(2):267-277, 2000.

Department of WHOI Author: MCG.

Contribution Number: **9886**

Arthur, Michael A., Walter E. Dean, and Kirsten Laarkamp.

Organic carbon accumulation and preservation in surface sediments on the Peru margin.

Mar.Chem., 152(3-4):273-286, 1998.

Department of WHOI Author: GEOL.

Contribution Number: **NONE**

Aubry, Marie-Pierre, William A. Berggren, John A. Van Couvering, and Fritz Steininger.

Problems in chronostratigraphy: Stages, series, unit and boundary stratotypes, global stratotype section and point and tarnished golden spikes.

Earth Sci.Rev., 1/4:99-148, 1999.

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Contribution Number: **9823**

Bachmayer, Ralf, Louis L. Whitcomb, and Mark A. Grosenbaugh.

Accurate four-quadrant nonlinear dynamical model for marine thrusters: Theory and experimental validation. *IEEE J.Ocean.Eng.*, 25(1):146-159, 2000.

Department of WHOI Author: AOPE.

Contribution Number: **9883**

Ballard, R. D., D. F. Coleman, and G. D. Rosenberg.

Further evidence of abrupt Holocene drowning of the Black Sea shelf.

Mar.Geol., 170:253-261, 2000.

Department of WHOI Author: AOPE.

Contribution Number: **NONE**

Balmforth, N. J., A. S. Burbidge, R. V. Craster, J. Salzig, and A. Shen.

Visco-plastic models of isothermal lava domes. *J.Fluid Mech.*, 403:37-65, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Bard, Shannon Mala.

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Department of WHOI Author: BIO.

Contribution Number: **NONE**

Berg, G. M., P. M. Glibert, and C.-C. Chen.

Dimension effects of enclosures on ecological processes in pelagic systems. *Limnol.Oceanogr.*, 44(5):1331-1340, 1999.

Department of WHOI Author: MCG.

Contribution Number: **NONE**

Bian, Lianagqiao, Kai-Uwe Hinrichs, Tianmin Xie, Simon C. Brassell, Neils Iversen, Henrik Fossing, Bo Barker Jorgensen, and John M. Hayes.

Algal and archaeal polyisoprenoids in a recent marine sediment: Molecular isotopic evidence for anaerobic oxidation of methane. *Geochem.Geophys.Geosys.*, 2: Jan. 17, 2001, Paper no. 2000GC000112 (24 Jan. 2001).
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Department of WHOI Author: GEOL.
Contribution Number: **NONE**

Bijma, J., M. Altabet, M. Conte, H. Kinkel, G. J. M. Versteegh, J. K. Volkman, and S. G. Wakeham, P. P. Weaver.

Primary signal: Ecological and environmental factors - report from Working Group 2. *Geochem.Geophys.Geosys.*, 2:10 Jan. 2001, Paper no. 2000GC000051 (25 Jan. 2001).
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Department of WHOI Author: GEOL.
Contribution Number: **NONE**

Boyd, P. W., A. J. Watson, C. S. Law, E. R. Abraham, T. Trull, R. Murdoch, D. C. E. Bakker, A. R. Bowie, K. O. Buesseler, Hoe Chang, M. Charette, P. Croot, K. Downing, J. Zeldis, et al.

A mesoscale phytoplankton bloom in the polar Southern Ocean stimulated by iron fertilization. *Nature*, 407(6805):695-702, 2000.
Department of WHOI Author: MCG.
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Bracco, Annalisa, J. H. LaCasce, and Antonello Provenzale.

Velocity probability density functions for oceanic floats. *J.Phys.Oceanogr.*, 30:461-474, 2000.
Department of WHOI Author: PO.
Contribution Number: **NONE**

Bracco, Annalisa, Joe LaCasce, Claudia Pasquero, and Antonello Provenzale.

The velocity distribution of barotropic turbulence. *Phys.Fluids*, 12(10):2478-2488, 2000.
Department of WHOI Author: PO.
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The effects of deep damp melting on the mantle flow and melt generation beneath mid-ocean ridges. *Earth Planet.Sci.Lett.*, 176:339-356, 2000.
Department of WHOI Author: GEOL.
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Broerse, Alexandra T. C., Patrizia Ziveri, Jan E. van Hinte, and Susumu Honjo.

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Department of WHOI Author: GEOL.

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Brook, Edward J., Mark D. Kurz, Joshua Curtice, and Stuart Cowburn.

Accretion of interplanetary dust in polar ice. *Geophys. Res. Lett.*, 27(19):3145-3148, 2000.

Department of WHOI Author: MCG.

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Bruland, Kenneth W., Eden L. Rue, John R. Donat, Stephen A. Skrabal, and James W. Moffett.

Intercomparison of voltammetric techniques to determine the chemical speciation of dissolved copper in a coastal seawater sample. *Anal. Chim. Acta*, 405:99-113, 2000.

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Canales, J. Pablo, John A. Collins, Javier Escartin, and Robert S. Detrick.

Seismic structure across the Rift Valley of the Mid-Atlantic Ridge at 23°20' (MARK area): Implications for crustal accretion processes at slow spreading ridges.

J. Geophys. Res., 105(B12):28411-28425, 2000.

Department of WHOI Author: GEOL.

Contribution Number: **10307**

Candela, Julio, Salvatore Mazzola, Cherif Sammari, richard Limeburner, Carlos J. Lozano, Bernardo Patti, and Angelo Bonnano.

The "Mad Sea" phenomenon in the Strait of Sicily. *J. Phys. Oceanogr.*, 29:2210-2231, 1999.

Department of WHOI Author: PO.

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Department of WHOI Author: PO.

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Microzooplankton herbivory in the Ross Sea, Antarctica.

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Department of WHOI Author: BIO.

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^{234}Th as a tracer of particulate organic carbon export in the subarctic northeast Pacific Ocean.
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Contribution Number: **NONE**

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Flood tide circulation near Beaufort Inlet, North Carolina: Implications for larval recruitment.
Estuaries, 22(4):1057-1070, 1999.
Department of WHOI Author: PO.
Contribution Number: **9804**

Clark, Peter U., Robert S. Webb, and Lloyd D. Keigwin.

Preface. *Geophysical Monograph 112. Mechanisms of Global Climate Change at Millennial Time Scales.* Peter U. Clark, Robert S. Webb, and Lloyd D. Keigwin, eds. American Geophysical Union, Washington D. C. :vii-viii, 1999.
Department of WHOI Author: GEOL.
Contribution Number: **NONE**

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Department of WHOI Author: GEOL.
Contribution Number: **NONE**

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Contribution Number: **9032**

Edwards, J. J., T. M. Gihring, and J. F. Banfield.

Seasonal variations in microbial populations and environmental conditions in an extreme acid mine drainage environment. *Appl.Environ.Microbiol.*, 65(8):3627-3632, 1999.

Department of WHOI Author:

Contribution Number: **NONE**

Edwards, Katrina J., Bo Hu, Robert J. Hamers, and Jillian F. Banfield.

A new look at microbial leaching patterns on sulfide minerals.

FEMS Microbiol.Ecol., 34:197-206, 2001.

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An archaeal iron-oxidizing extreme acidophile important in acid mine drainage.

Science, 287(5459):1796-1799, 2000.

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Proc.Ocean Drill.Prog., Sci.Res., 172:1-9, 2000.

Department of WHOI Author: MCG.

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Eglinton, T. I., M. A. Goni, J. J. Boon, E. R. E. van der Hage, N. Terashima, and Y. Xie.

Incorporation of ¹³C-labelled coniferyl alcohol into developing *Ginkgo biloba L.* lignin revealed by analytical pyrolysis and CuO oxidation in combination with isotope ratio monitoring-gas chromatography-mass spectrometry. *Holzforschung*, 54(1):39-54, 2000.

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Department of WHOI Author: MCG. GEOL.

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Goericke, R., R. J. Olson, and A. Shalapyonok.

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Department of WHOI Author: AOPE.

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Department of WHOI Author: BIO.

Contribution Number: **NONE**

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Correlation of 2,3,7,8-tetrachlorodibenzo-p-dioxin induction of cytochrome P4501A in vascular endothelium with toxicity in early life stages of lake trout. *Toxicol.Appl.Pharmacol.*, 143(2):256-273, 1997.

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Hagan, Denise.

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Department of WHOI Author: PO.

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Department of WHOI Author: GEOL.

Contribution Number: **NONE**

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Spatial and temporal variations of total organic carbon in the Arabian Sea. *DeepSea Res.II*, 45:2171-2193, 1998.

Department of WHOI Author: MCG.

Contribution Number: **9717**

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Department of WHOI Author: AOPE.
Contribution Number: **10017**

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Contribution Number: **NONE**

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Department of WHOI Author: GEOL.
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Spectral energy balance of breaking waves within the surf zone.
J.Phys.Oceanogr., 30(11):2723-2737, 2000.
Department of WHOI Author: AOPE.
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Hinrichs, Kai-Uwe.

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Department of WHOI Author: GEOL.
Contribution Number: **10366**

Hinrichs, Kai-Uwe, Roger E. Summons, Victoria Orphan, Sean P. Sylva, and John M. Hayes.

Molecular and isotopic analysis of anaerobic methane-oxidizing communities in marine sediments.
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Department of WHOI Author: GEOL.
Contribution Number: **10256**

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On the accuracy of in situ water vapor measurements in the troposphere and lower stratosphere with the Harvard Lyman-alpha. *J.Geophys.Res.*, 104(7):8183-8189, 1999.

Department of WHOI Author: MCG.

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Hirth, Greg, Rob L. Evans, Alan D. Chave.

Comparison of continental and oceanic mantle electrical conductivity: Is the Archean lithosphere dry?

Geochem.Geophys.Geosys., 1: Dec. 8, 2000, Paper no. 2000GC000048(24 Jan. 2001).

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Department of WHOI Author: GEOL.

Contribution Number: **NONE**

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Department of WHOI Author: MPC.

Contribution Number: **NONE**

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Department of WHOI Author: MPC.

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Contribution Number: **NONE**

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Global Biogeochem.Cycles, 12(2):311-320, 1998.
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**Keim, E. R., S. A. McKeen, R. S. Gao, S. G. Donnelly, R. C. Wamsley, L. A. Del Negro,
D. W. Fahey, T. F. Hanisco, E. J. Lanzendorf, M. H. Proffitt, J. J. Margitan, E. J. Hints,
L. Jaegle, and C. R. Webster, et al.**

Noy partitioning from measurements of nitrogen and hydrogen radicals in the upper troposphere.
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Major element heterogeneity in the mantle source of the North Atlantic igneous province. *Earth Planet.Sci.Lett.*, 184:251-268, 2000.

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The upper-ocean response to monsoonal forcing in the Arabian Sea: Seasonal and spatial variability. *Deep-Sea Res.II*, 47:1177-1226, 2000.
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