



## WHOI Contributions to the Scientific Literature 2002 Annual Report

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2002 Publications of record as of January 1, 2003. Entries are listed by department. Institution contribution number appears at the end of each entry. Earlier publications not listed in prior Annual Reports are listed here. Compiled by Ann Devenish and Colleen Hurter, Library. Reprint requests should be directed to the individual authors.

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### Applied Ocean Physics & Engineering

**Agrawal, Y. C., and P. Traykovski.**

Particles in the bottom boundary layer: Concentration and size dynamics through events. *J.Geophys.Res.*, 106(C5):9533-9542, 2001.

**Agrawal, Y., and A. J. Williams, III.**

Editorial : Microstructure sensors. *J.Atmos.Ocean.Technol.*, 16:1465-1466, 1999.

**Anderson, Erik J., Wade R. McGillis, and Mark A. Grosenbaugh.**

The boundary layer of swimming fish. *J.Exp.Biol.*, 204:81-102, 2001. 10175

**Austin, Thomas C., James B. Edson, Wade R. McGillis, Michael Purcell, Robert A. Pettitt, Marguerite K. McElroy, Carlton W. Grant, Jonathan Ware, and Sheila K. Hurst.**

A network-based telemetry architecture developed for the Martha's Vineyard coastal observatory. *IEEE J.Oceanic Eng.*, 27(2):228-234, 2002. 10603

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

An accurate four-quadrant nonlinear dynamical model for marine thrusters: Theory and experimental validation. *IEEE J.Oceanic Eng.*, 25(1):146-159, 2000. 9883

**Ballard, R.D.**

Maritime Archaeology. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 3:1675-1681, 2001.

**Becker, Kyle M., and George V. Frisk.**

Wavenumber extraction techniques for a three-dimensionally varying shallow water waveguide: a comparison. In: *16th International Congress on Acoustics and 135th Meeting Acoustical Society of America, The Sound of the Future: A Global View of Acoustics in the 21st Century, Seattle, Washington, 20-26 June 1998*. Patricia K. Kuhl and Lawrence A. Crum, eds., 4:2433-2434, 1998.

**Chandran, Vinod, Steve Elgar, and Anthony Nguyen.**

Detection of mines in acoustic images using higher-order spectral features. *IEEE J.Oceanic Eng.*, 27(3):610-618, 2002. 10482

**Chang, G. C., T. D. Dickey, and A. J. Williams, III.**

Sediment resuspension over a continental shelf during Hurricanes Edouard and Hortense. *J.Geophys.Res.*, 106(C5):9517-9531, 2001.

**Chu, Dezhang, Peter Wiebe, and Nancy Copley.**

Inference of material properties of zooplankton from acoustic and resistivity measurements. *ICES J.Mar.Sci.*, 57:1128-1142, 2000. 9988

**Colosi, John A., Robert C. Beardsley, James F. Lynch, Glen Gawarkiewicz, Ching-Sang Chiu, and Alberto Scotti.**

Observations of nonlinear internal waves on the outer New England continental shelf during the summer Shelfbreak Primer study. *J.Geophys.Res.*, 106(C5):9587-9601, 2001. 9906

**Colosi, John A., Fred Tappert, and Matthew Dzieciuch.**

Further analysis of intensity fluctuations from a 3552-km acoustic propagation experiment in the eastern North Pacific Ocean. *J.Acoust.Soc.Am.*, 110(1):163-169, 2001. 10162

**Copley, J. T. P., P. A. Tyler, C. L. Van Dover, A. Schultz, P. Dickson, S. Singh, and M. Sulanowska.**

Subannual temporal variation in faunal distributions at the Tag hydrothermal mound (26°N, Mid-Atlantic Ridge). *Mar.Ecol.*, 20(3-4):291-306, 1999.

**DeGrandpre, M.D., G. L. Olbu, C. M. Beatty, and T. R. Hammar.**

Air-sea CO<sub>2</sub> fluxes on the US Middle Atlantic Bight. *Deep-Sea Res.II*, 49:4355-4367, 2002.

**Dickey, T. D., and A. J. Williams, III.**

Interdisciplinary ocean process studies on the New England Shelf. *J.Geophys.Res.*, 106(C5):9427-9434, 2001.

**Doutt, James A., George V. Frisk, and Hugh Martell.**

Determination of distance between a moving ship and drifting buoys to centimeter-level accuracy at sea using L1 phase receivers and differential moving-base kinematic processing [CD-ROM]. *Proceedings of ION GPS-98, Nashville, Tenn. (15-18 Sept. 1998)*. Washington, DC: Institute of Navigation, :1301-1306, 1998. 9784

**D'Sa, E. J., S. E. Lohrenz, J. H. Churchill, V. L. Asper, J. L. Largier, and A. J. Williams, III.**

Chloropigment distribution and transport on the inner shelf off Duck, North Carolina. *J.Geophys.Res.*, 106(C6):11581-11596, 2001.

**Dudko, Y. V., H. Schmidt, K. von der Heydt, and E. K. Scheer.**

Edge wave observation using remote seismoacoustic sensing of ice events in the Arctic. *J.Geophys.Res.*, 103(C10):21775-21781, 1998.

**Dushaw, B. D., B. M. Howe, J. A. Mercer, R. C. Spindel, J. A. Colosi, B. D. Cornuelle, M. A. Dzieciuch, W. H. Munk, and P. F. Worcester.**

Multimegahertz-range acoustic data obtained by bottom-mounted hydrophone arrays for measurement of ocean temperature. *IEEE J.Oceanic Eng.*, 24(2):202-214, 1999.

**Edson, J. B.**

Sensors for micrometeorological flux measurements. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 5:2751-2759, 2001.

**Eggen, T., A. Baggeroer, and J. Preisig.**

Communication over Doppler spread channels - part I: Channel and receiver presentation. *IEEE J.Oceanic Eng.*, 25(1):62-71, 2000.

**Eggen, Trym H., James C. Preisig, and Arthur B. Baggeroer.**

Communication over Doppler spread channels - II: Receiver characterization and practical results. *IEEE J.Oceanic Eng.*, 26(4):612-621, 2001. 10325

**Eustice, Ryan, Oscar Pizarro, Hanumant Singh, and Jonathan Howland.**

UWIT: Underwater image toolbox for optical image processing and mosaicking in MATLAB. *Underwater Technology 2002 Symposium*, 2002. 10640

**Evans, Rob. L., Alan D. Chave, and John R. Booker.**

On the importance of offshore data for magnetotelluric studies of ocean-continent subduction systems. *Geophys.Res.Lett.*, 29(9),doi:10.1029/2001GL013960, 2002. 10535

**Fedderson, Falk, R. T. Guza, Steve Elgar, and T. H. C. Herbers.**

Velocity moments in alongshore bottom stress parameterizations. *J.Geophys.Res.*, 105(C4):8673-8686, 2000. 10060

**Fong, Derek A., and W. Rockwell Geyer.**

The alongshore transport of fresh water in a surface-trapped river plume. *J.Phys.Oceanogr.*, 32:957-972, 2002. 10494

**Foote, K. G.**

Acoustic scattering by marine organisms. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 1:44-52, 2001. 10271

**Foote, Kenneth G., and David T. I. Francis.**

Comparing Kirchhoff-approximation and boundary-element models for computing gadoid target strengths. *J.Acoust.Soc.Am.*, 111:1644-1654, 2002. 10437

**Freitag, L., M. Johnson, and J. Preisig.**

Acoustic communications for UUVs. *Sea Technol.*, 39(6):65-71, 1998.

**Freitag, L., M. Stojanovic, S. Singh, M. Johnson.**

Analysis of channel effects on direct-sequence and frequency-hopped spread-spectrum acoustic communication. *IEEE J.Oceanic Eng.*, 26(4):586-593, 2001.

**Frisk, G. V.**

Underwater sound. In: *McGraw-Hill Yearbook of Science and Technology 2002*. M. D. Licker, ed., New York: McGraw-Hill, :403-406, 2001.

**Frisk, George V., Kyle M. Becker, Laurence N. Connor, James A. Doutt, and Cynthia J. Sellers.**

High-resolution, three-dimensional measurements of low-frequency sound propagation in shallow water. In: *16th International Congress on Acoustics and 135th Meeting Acoustical Society of America, The Sound of the Future: A Global View of Acoustics in the 21st Century, Seattle, Washington, 20-26 June 1998*. Patricia K. Kuhl and Lawrence A. Crum, eds., 4:2423-2424, 1998.

**Frisk, George V., Dan Li, and Dajun Tang.**

Bottom volume scattering: modeling and data analysis. In: *16th International Congress on Acoustics and 135th Meeting Acoustical Society of America, The Sound of the Future: A Global View of Acoustics in the 21st Century, Seattle, Washington, 20-26 June 1998*. Patricia K. Kuhl and Lawrence A. Crum, eds., 4:2699-2700, 1998.

**Frye, D., J. Kemp, W. Paul, and D. Peters.**

Mooring developments for autonomous oceanographic sampling networks. *IEEE J.Oceanic Eng.*, 26(4):477-486, 2001.

**Gallagher, Edith L., Steve Elgar, and R. T. Guza.**

Observations of sand bar evolution on a natural beach. *J.Geophys.Res.*, 103(C2):3203-3215, 1998.

**Gallagher, Edith L., Steve Elgar, and Edward B. Thornton.**

Megaripple migration in a natural surf zone. *Nature*, 394:165-168, 1998.

**Garcia, Xavier, and Alan G. Jones.**

Atmospheric sources for audio-magnetotelluric (AMT) sounding. *Geophysics*, 67:448-458, 2002.

**Gardner, W. D., J. C. Blakey, I. D. Walsh, M. J. Richardson, S. Pegau, J. R. V. Zaneveld, C. Roesler, M. C. Gregg, J. A. MacKinnon, H. M. Sosik, and A. J. Williams, III.**

Optics, particles, stratification, and storms on the New England continental shelf. *J.Geophys.Res.*, 106(C5):9473-9497, 2001.

**Garland, Elizabeth D., and Cheryl Ann Zimmer.**

Planktonic larval concentrations in a nearshore environment: Temporal variability on scales of hours to days. *Mar.Biol.*, 60:311-325, 2002. 10043

**Garland, Elizabeth D., and Cheryl Ann Zimmer.**

Techniques for the identification of bivalve larvae. *Mar.Ecol.Prog.Ser.*, 225:299-310, 2002. 10089

**Garland, Elizabeth D., Cheryl Ann Zimmer, and Steven J. Lentz.**

Vertical distributions in inner-shelf waters: The roles of wind-driven cross-shelf currents and diel vertical migrations. *Limnol.Oceanogr.*, 47(3):803-817, 2002. 10042

**Geyer, W. Rockwell, James T. Morris, Frederick G. Prahl, and David A. Jay.**

Interaction between physical processes and ecosystem structure: A comparative approach. In: *Estuarine Science: A Synthetic Approach to Research and Practice*. John E. Hobbie, ed., Washington: Island Press, :177-206, 2000.

**Geyer, W. Rockwell, Jonathan D. Woodruff, and Peter Traykovski.**

Sediment transport and trapping in the Hudson River Estuary. *Estuaries*, 24(5):670-679, 2001. 10285

**Gobat, Jason I., and Mark A. Grosenbaugh.**

Dynamics in the touchdown region of catenary moorings. *Int.J.Offshore Polar Eng.*, 11(45):273-281, 2001.

**Gobat, Jason I., Mark A. Grosenbaugh, and Michael S. Triantafyllou.**

Generalized-a time integration solutions for hanging chain dynamics. *J.Eng.Mech.*, 128(6):677-687, 2002.

**Gorska, N., and D. Chu.**

Some aspects of sound extinction by zooplankton. *J.Acoust.Soc.Am.*, 110(5):2315-2325, 2001.

**Grosenbaugh, Mark, Steven Anderson, Richard Trask, Jason Gobat, Walter Paul, Bradford Butman, and Robert Weller.**

Design and performance of a horizontal mooring for upper-ocean research. *J.Atmos.Ocean.Technol.*, 19:1376-1389, 2002.

**Grosenbaugh, Mark A., and Jason I. Gobat.**

Full-scale dynamic measurements of a shallow-water oceanographic surface mooring. *Proc.Int. Offshore Polar Eng. Conf.*, 2:699-705, 1999.

**Herbers, T. H. C., Steve Elgar, and R. T. Guza.**

Directional spreading of waves in the nearshore. *J.Geophys.Res.*, 104(C4):7683-7693, 1999.

**Herbers, T. H. C., Steve Elgar, N. A. Sarap, and R. T. Guza.**

Nonlinear dispersion of surface gravity waves in shallow water. *J.Phys.Oceanogr.*, 32(4):1181-1193, 2002. 10061

**Hill, Paul S., George Voulgaris, and John H Trowbridge.**

Controls on floc size in a continental shelf bottom boundary layer. *J.Geophys.Res.*, 106(C5):9543-9549, 2001.

**Hogg, N., D. Frye, and C. Wunsch.**

New generation mooring system allows longer deployment. *Eos*, 83(34):370-371, 2002.

**Irish, J. D., A. E. Hay, P. Traykovski, A. Newhall, R. Craig, and W. M. Paul.**

On attaching acoustic imaging instrumentation to the LEO-15 observatory for sediment transport and bottom boundary layer studies. *IEEE J.Oceanic Engr.*, 27(2):254-266, 2002. 10534

**Jay, David A., W. Rockwell Geyer, and David R. Montgomery.**

An ecological perspective on estuarine classification. In: *Estuarine Science: A Synthetic Approach to Research and Practice*. John E. Hobbie, ed., Washington: Island Press, :149-176, 2000.

**Jones, Alan G., Ian J. Ferguson, Alan D. Chave, Rob L. Evans, and Gary W. McNeice.**

Electric lithosphere of the Slave craton. *Geology*, 29:423-426, 2001. 10279

**Kujawinski, E., John W. Farrington, and James W. Moffett.**

Evidence for grazing-mediated production of dissolved surface-active material by marine protists. *Mar.Chem.*, 77:133-142, 2002.

**Lavery, Andone C., Timothy K. Stanton, Duncan E. McGehee, and Dezhang Chu.**

Three-dimensional modeling of acoustic backscattering from fluid-like zooplankton. *J.Acoust.Soc.Am.*, 11(3):1197-1210, 2002. 10425

**Levy, Laurent C., Wade R. McGillis, John T. Germaine, and Patricia J. Culligan.**

Spinning drop tensiometry using a square section sample tube. *J.Colloid Interface Sci.*, 234:442-444, 2001. 10132

**Li, Dan, George V. Frisk, and Dajun Tang.**

Modeling of bottom backscattering from three-dimensional volume inhomogeneities and comparisons with experimental data. *J.Acoust.Soc.Am.*, 109(4):1384-1397, 2001. 9813

**Lynch, J.**

Book review: Marine Mammals and Low Frequency Sound: Progress Since 1994, by National Research Council. *J.Acoust.Soc.Am.*, 110(2):649-650, 2001.

**MacCready, P., R. D. Hetland, and W. R. Geyer.**

Long-term isohaline salt balance in an estuary. *Cont.Shelf Res.*, 22(11-13):1591-1601, 2002.

**Mahrt, L., D. Vickers, J. Edson, J. M. Wilczak, J. Hare, and J. Hojstrup.**

Vertical structure of turbulence in offshore flow during Rasex. *Bound.-Layer.Meteorol.*, 100(1):47-61, 2001.

**Marine Zooplankton Colloquium 2.**

Future marine zooplankton research - a perspective. *Mar.Ecol.Prog.Ser.*, 222:297-308, 2001.

**McGillicuddy, Dennis J., Jr.**

Models of small-scale patchiness. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 5:2820-2833, 2001. 10265

**McKenna, S. P., and W. R. McGillis.**

Fundamental performance of particle image and particle tracking velocimetry techniques. *Exp.Fluids*, 32:106-115, 2000. 9962

**Nakamura, Masahiko, Ralf Bachmayer, Louis L. Whitcomb, and Mark Grosenbaugh.**

Control of thruster for AUV. *Proceedings of the 8th International Offshore Polar Engineering Conference, Montreal, Canada, May 24-29, 1998*. Jin S. Chung, et al., eds., Golden, CO: International Society of Offshore and Polar Engineers (ISOPE), 2:255-262, 1998.

**Norheim, C. A., T. H. C. Herbers, and Steve Elgar.**

Nonlinear evolution of surface wave spectra on a beach. *J.Phys.Oceanogr.*, 28:1534-1551, 1998.

**Nowacek, Douglas P., Mark P. Johnson, Peter L. Tyack, Kenneth A. Shorter, William A. McLellan, and D. Ann Pabst.**

Buoyant balaenids: The ups and downs of buoyancy in right whales. *Proc.R.Soc.Lond.B*, 268:1811-1816, 2001. 10463

**Noyes, T. James, R. T. Guza, Steve Elgar, and T. H. C. Herbers.**

Comparison of methods for estimating nearshore shear wave variance. *J.Atmos.Oceanic Technol.*, 19:136-143, 2002. 10368

**Plant, W. J., W. C. Keller, V. Hesany, T. Hara, E. Bock, and M. A. Donelan.**

Bound waves and Bragg scattering in a wind-wave tank. *J.Geophys.Res.*, 104(2):3243-3263, 1999.

**Preisig, James C., and Mark P. Johnson.**

Signal detection for communications in the underwater acoustic environment. *IEEE J.Oceanic Eng.*, 26(4):572-585, 2001. 10193

**Rajan, S. D., J. A. Douth, and W. M. Carey.**

Inversion for the compressional wave speed profile of the bottom from synthetic aperture experiments conducted in the Hudson Canyon area. *IEEE J.Oceanic Eng.*, 23(3):174-187, 1998.

**Raubenheimer, B., Steve Elgar, and R. T. Guza.**

Estimating wave heights from pressure measured in a sand bed. *J.Waterw.Port Coast.Ocean Eng.*, 124:151-154, 1998.

**Ruessink, B. G., J. R. Miles, F. Feddersen, R. T. Guza, and S. Elgar.**

Modeling the alongshore current on barred beaches. *J.Geophys.Res.*, 106(C10):22,451-22,463, 2001. 10355

**Scheirer, Daniel S., Daniel J. Fornari, Susan E. Humphris, and Steve Lerner.**

High-resolution seafloor mapping using the DSL-120 sonar system: Quantitative assessment of sidescan and phase-bathymetry data from the Lucky Strike segment of the Mid-Atlantic Ridge. *Mar.Geophys.Res.*, 21(1/2):121-142, 2000. 10107

**Schmitt, R. W., and J. R. Ledwell.**

Dispersion and diffusion in the deep ocean. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:726-733, 2001.

**Seewald, Jeffrey S., Kenneth W. Doherty, Terence R. Hammar, and Stephen P. Liberatore.**

A new gas-tight isobaric sampler for hydrothermal fluids. *Deep-Sea Res.I*, 49:189-196, 2001. 10510

**Sheremet, A., R. T. Guza, S. Elgar, and T. H. C. Herbers.**

Observations of nearshore infragravity waves: Seaward and shoreward propagating components. *J.Geophys.Res.*, 107(C8),3095,doi:10.1029/2001JC000970, 2002. 10453A

**Singh, Hanumant, James Bellingham, Franz Hover, Steve Lerner, Bradley A. Moran, Keith von der Heydt, and Dana Yoerger.**

Docking for an autonomous ocean sampling network. *IEEE J.Oceanic Eng.*, 26(4):498-514, 2001. 10564

**Singh, Hanumant, Oscar Pizarro, Louis Whitcomb, and Dana Yoerger.**

In-situ attitude calibration for high resolution bathymetric surveys with underwater robotic vehicles. In: *2000 IEEE International Conference on Robotics and Automation, April 24-28, 2000, San Francisco, CA.* Piscataway, NJ: IEEE Robotics and Automation Society, 2:1767-1774, 2000. 10037

**Sisson, John D., Jeff Shimeta, Cheryl Ann Zimmer, and Peter Traylovski.**

Mapping epibenthic assemblages and their relations to sedimentary features in shallow-water, high-energy environments. *Cont.Shelf Res.*, 22:565-583, 2002. 9755

**Snelgrove, Paul V. R., Judith P. Grassle, and Cheryl Ann Zimmer.**

Adult macrofauna effects on *Capitella* sp. I larval settlement: A laboratory flume study. *J.Mar.Res.*, 59:657-674, 2001. 10031

**Stanton, T. K.**

Book review: *Fundamental of Acoustical Oceanography*, by Herman Medwin and Clarence S. Clay. *J.Acoust.Soc.Am.*, 105(4):2065-2066, 1999.

**Stanton, Timothy K., Dezhang Chu, and Peter H. Wiebe.**

Acoustic scattering models of zooplankton from several major anatomical groups: theory and experiment. In: *16th International Congress on Acoustics and 135th Meeting Acoustical Society of America, The Sound of the Future: A Global View of Acoustics in the 21st Century, Seattle, Washington, 20-26 June 1998.* Patricia K. Kuhl and Lawrence A. Crum, eds., 3:1811-1812, 1998. 9665

**Stokey, R., B. Allen, T. Austin, N. Forrester, M. Purcell, and C. von Alt.**

Enabling technologies for REMUS docking: An integral component of an autonomous ocean-sampling network. *IEEE J.Oceanic Eng.*, 26(4):487-497, 2001.

**Sundermeyer, Miles, and James R. Ledwell.**

Lateral dispersion over the continental shelf: Analysis of dye-release experiments. *J.Geophys.Res.*, 106(C5):9603-9621, 2001. 10209

**Tang, Xiaou, K. W. Stewart, Luc Vincent, He Huang, Marty Marra, Scott M. Gallager, and Cabell S. Davis.**

Automatic plankton image recognition. *Artificial Intelligence Review*, 12(1-3):177-199, 1998. 9214

**Traykovski, Peter, Alex E. Hay, James D. Irish, and James F. Lynch.**

Geometry, migration, and evolution of wave orbital ripples at LEO-15. *J.Geophys.Res.*, 104(C1):1505-1524, 1999. 9796

**Valiela, I., P. Peckol, C. D'Avanzo, J. Kremer, D. Hersh, K. Foreman, K. Lajtha, B. Seely, W. R. Geyer, T. Isaji, and R. Crawford.**

Ecological effects of major storms on coastal watersheds and coastal waters. *J.Coast.Res.*, 14(1):218-238, 1998.

**Warren, Joseph D., Timothy K. Stanton, Dezhang Chu, Duncan E. McGehee, and Robert L. Eastwood.**  
Pulse compression processing of zooplankton echoes. In: *16th International Congress on Acoustics and 135th Meeting Acoustical Society of America, The Sound of the Future: A Global View of Acoustics in the 21st Century, Seattle, Washington, 20-26 June 1998*. Patricia K. Kuhl and Lawrence A. Crum, eds., 4:2787-2788, 1998.

**Warren, Joseph D., Timothy K. Stanton, Duncan E. McGehee, and Dezhang Chu.**  
Effect of animal orientation on acoustic estimates of zooplankton properties. *IEEE J. Oceanic Eng.*, 27(1):130-138, 2002S. 10198

**Watson, Andrew J., and James R. Ledwell.**  
Oceanographic tracer release experiments using sulfur hexafluoride. *J. Geophys. Res.*, 105(C6):14325-14337, 2000. 10049

**White, S. N., A. D. Chave, G. T. Reynolds, and C. L. Van Dover.**  
Ambient light emission from hydrothermal vents on the Mid-Atlantic Ridge. *Geophys. Res. Lett.*, 29, doi:10.1029/2001GL014106, 2002.

**White, Sheri N., Alan D. Chave, and George T. Reynolds.**  
Investigations of ambient light emission at deep-sea hydrothermal vents. *J. Geophys. Res.*, 107(B1), 2001, doi:10.1029/2000JB000015, 2002. 10331

**Wiebe, Peter H., Timothy K. Stanton, Charles H. Greene, Mark C. Benfield, Heidi M. Sosik, Tom Austin, Joseph D. Warren, and Terry Hammar.**  
BIOMAPER-II: An integrated instrument platform for coupled biological and physical measurements in coastal and oceanic regimes. *IEEE J. Oceanic Eng.*, 27(3):700-716, 2002S. 10655

**Wooding, F. Beecher, K. R. Peal, and J. A. Collins.**  
ORB Ocean-bottom seismic data logger. *Sea Technol.*, 39(8):85-89, 1998.

**Woodruff, Jonathan D., W. Rockwell Geyer, Christopher K. Sommerfield, and Neal W. Driscoll.**  
Seasonal variation of sediment deposition in the Hudson River estuary. *Mar. Geol.*, 179(1-2):105-119, 2001. 10471

**Worcester, P. F., B. D. Cornuelle, M. A. Dziechiuch, W. H. Munk, J. A. Colosi, B. M. Howe, J. A. Mercer, R. C. Spindel, K. Metzger, T.G. Birdsall, and A. B. Baggeroer.**  
A test of basin-scale acoustic thermometry using a large-aperture vertical array at 3250-km range in the eastern North Pacific Ocean. *J. Acoust. Soc. Am.*, 105(6):3185-3201, 1999.

**Yoerger, Dana R., Albert M. Bradley, Barrie B. Walden, Marie-Helene Cormier, and William B. F. Ryan.**  
Fine-scale seafloor survey in rugged deep-ocean terrain with an autonomous robot. In: *Proceedings 2000 ICRA Millennium Conference. IEEE International Conference on Robotics and Automation, April 24-28, 2000, San Francisco, California*. Piscataway, NJ: IEEE Robotics and Automation Society, 2:1787-1792, 2000. 10024

**Zappa, C. J., W. E. Asher, A. T. Jessup, J. Klinke, and S. R. Long.**  
Effect of microscale wave breaking on air-water gas transfer. In: *Gas Transfer at Water Surfaces*. M. A. Donelan, W. M. Drennan, E. S. Saltzman and P. Wanninkhof, eds., Washington DC: American Geophysical Union, :23-29, 2002.

**Zemmelink, H. J., W. W. C. Gieskes, W. Klaassen, H. W. J. de Baar, J. W. H. Dacey, E. J. Hintsa, and W. R. McGillis.**  
Simultaneous use of relaxed eddy accumulation and gradient flux techniques for the measurement of sea-to-air exchange of dimethylsulphide. *Atmos. Environ.*, 36:5709-5717, 2002. 10757



## Biology

**Aguilera, Angeles, Bruce A. Keafer, G. H. Rau, and Donald M. Anderson.**

Immunomagnetic isolation of live and preserved *Alexandrium fundyense* cells: Species-specific physiological, chemical, and isotopic analyses. *Mar.Ecol.Prog.Ser.*, 237:65-78, 2002. 10550

**Amaral-Zettler, Linda A. and David A. Caron.**

New insights into the phylogeny of the acantharea based on SSU rRNA gene sequencing. *Eur.J.Protistol.*, 36(1):34-39, 2000. 10129

**Anderson, D. M.**

Phytoplankton blooms. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 4:2179-2192, 2001.

**Anderson, Donald M., and Patricia M. Glibert.**

Harmful algal blooms and eutrophication: Nutrient sources, composition, and consequences. *Estuaries*, 25(4B):704-726, 2002. 10398

**Andreasen, Eric A., Mark E. Hahn, Warren Heideman, Richard E. Peterson, and Robert L. Tanguay.**

The zebrafish (*Danio rerio*) aryl hydrocarbon receptor type 1 (zfAHR1) is a novel vertebrate receptor. *Mol.Pharmacol.*, 62:234-249, 2002. 10571

**Arnofsky, Pamela F.**

*Spiomenia spiculata* gen. et sp. Nov. (Aplacophera: Neomeniomorpha) collected from the deep waters of the West European Basin. *The Veliger*, 43(2):110-117, 2000. 9747

**Ashjian, Carin J., Sharon L. Smith, Charels N. Flagg, and Nasseer Idrisi.**

Distribution, annual cycle, and vertical migration of acoustically derived biomass in the Arabian Sea during 1994-1995. *Deep-Sea Res.II*, 49:2377-2402, 2002. 10537

**Atkins, Michael S., Magda A. Hanna, Erine A. Kupetsky, Mak A. Saito, Craig A. Taylor, and Carl O. Wirsén.**

Tolerance of flagellated protists to high sulfide and metal concentrations potentially encountered at deep-sea hydrothermal vents. *Mar.Ecol.Prog.Ser.*, 226:63-75, 2002. 10600

**Barbeau, M. A., and J. E. McDowell.**

Improving the production of scallops from bottom culture. *World Aquacult.*, 29(4):12-16, 1998.

**Bard, Shannon Mala, Susan Bello, Mark Hahn, and John J. Stegeman.**

Expression of P-glycoprotein in killifish (*Fundulus heteroclitus*) exposed to environmental xenobiotics. *Aquat.Toxicol.*, 59:237-251, 2002. 10306

**Benfield, Mark C., Cabell S. Davis, and Scott M. Gallager.**

Estimating the in-situ orientation of *Calanus finmarchicus* on Georges Bank using the Video Plankton Recorder. *Plankton Biol.Ecol.*, 47(1):69-72, 2000. 9974

**Betka, Marlies, Alice Welenc, Diana G. Franks, Mark E. Hahn, and Gloria V. Callard.**

Characterization of two Aryl hydrocarbon receptor (Ahr) mRNA forms in *Squalus acanthias* and stage-dependent expression during spermatogenesis. *Bull.Mt.Desert Isl. Biol.Lab.*, 39:110-112, 2000. 10116

**Blake, James A., and Pamela L. Arnofsky.**

Reproduction and larval development of the spioniform Polychaeta with application to systematics and phylogeny. *Hydrobiologia*, 402:57-106, 1999. 9930

- Bucklin, A., O. S. Astthorsson, A. Gislason, L. D. Allen, S. B. Smolenack, and P. H. Wiebe.**  
Population genetic variation of *Calanus finmarchicus* in Icelandic waters: Preliminary evidence of genetic differences between Atlantic and Arctic populations. *ICES J.Mar.Sci.*, 57:1592-1604, 2000. 10293
- Bucklin, Ann, Peter Wiebe, Susann B. Smolenack, Nancy Copley, and M. Elizabeth Clarke.**  
Integrated biochemical, molecular genetic, and bioacoustical analysis of mesoscale variability of the euphausiid *Nematoscelis difficilis* in the California Current. *Deep-Sea Res.I*, 49:437-462, 2002. 10427
- Campana, S. E., and S. R. Thorrold**  
Otoliths, increments, and elements: Keys to a comprehensive understanding of fish populations?  
*Can.J.Fish.Aquat.Sci.*, 58:30-38, 2001.
- Caswell, Hal, and Ron Etter.**  
Cellular automaton models for competition in patchy environments: Facilitation, inhibition, and tolerance.  
*Bull.Math.Biol.*, 61(4):625-649, 1999. 9825
- Caswell, Hal, and Thomas N. Kaye.**  
Stochastic demography and conservation of an endangered perennial plant (*Lomatium bradshawii*) in a dynamic fire regime. *Adv.Ecol.Res.*, 32:1-51, 2001. 10052
- Chu, Dezhang, Peter Wiebe, and Nancy Copley.**  
Inference of material properties of zooplankton from acoustic and resistivity measurements. *ICES J.Mar.Sci.*, 57:1128-1142, 2000. 9988
- Dacey, J. W., and H. J. Zemmellink.**  
Dimethyl sulphide, COS, CS<sub>2</sub>, NH<sub>4</sub>, non-methane hydrocarbons, organo-halogens. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 1:131-137, 2001.
- Dahlgren, Thomas G., Bertil Akesson, Christoffer Schander, Kenneth M. Halanych, and Per Sundberg.**  
Molecular phylogeny of the model annelid *Ophryotrocha*. *Biol.Bull.*, 201:193-203, 2001. 10442
- Dennett, Mark A., David A. Caron, Anthony F. Michaels, Scott M. Gallager, and Cabell S. Davis.**  
Video plankton recorder reveals high abundances of colonial radiolaria in surface waters of the central North Pacific. *J.Plankton Res.*, 24(8):797-805, 2002. 10616
- Dennett, Mark R., Sylvie Mathot, David A. Caron, Walker O. Smith, Jr., and Darcy J. Lonsdale.**  
Abundance and distribution of phototrophic and heterotrophic nano- and microplankton in the southern Ross Sea. *Deep-Sea Res.II*, 48:4019-4037, 2001. 10376
- DuRand, Michele D., and Robert J. Olson.**  
Diel patterns in optical properties of the chlorophyte *Nannochloris* sp.: Relating individual-cell to bulk measurements. *Limnol.Oceanogr.*, 43(6):1107-1118, 1998. 9655
- Dusenberry, J. A., R. J. Olson, and S. W. Chisholm.**  
Photoacclimation kinetics of single-cell fluorescence in laboratory and field populations of *Prochlorococcus*. *Deep-Sea Res.I*, 48(6):1443-1458, 2001.
- Dusenberry, Jeffrey A., Robert J. Olson, and Sallie W. Chisholm.**  
Frequency distributions of phytoplankton single-cell fluorescence and vertical mixing in the surface ocean. *Limnol.Oceanogr.*, 44(2):431-435, 1999.

**Edgcomb, Virginia A., David T. Kysela, Andreas Teske, Alvin de Vera Gomez, and Mitchell L. Sogin.**  
Benthic eukaryotic diversity in a hydrothermal vent environment. *Proc.Nat.Acad.Sci. USA*, 99(11):7658-7662, 2002. 10481

**Edwards, Andrew M., and John Brindley.**  
Zooplankton mortality and the dynamical behaviour of plankton population models. *Bull.Math.Biol.*, 61(2):303-339, 1999. 9721

**Etter, R. J., and L. S. Mullineaux.**  
Deep-sea communities. In: *Marine Community Ecology*. M. R. Bertness, R. Hey and S. Gaines, eds., Sunderland, Mass.: Sinauer Associates, :367-394, 2001. 10341

**Fagan, William F., Mark A. Lewis, Michael G. Neubert, and P. van den Driessche.**  
Invasion theory and biological control. *Ecology Lett.*, 5:148-157, 2002.

**Fujiwara, Masami, and Hal Caswell.**  
Demography of the endangered North Atlantic right whale. *Nature*, 414:537-541, 2001. 10566

**Gardner, W. D., J. C. Blakey, I. D. Walsh, M. J. Richardson, S. Pegau, J. R. V. Zaneveld, C. Roesler, M. C. Gregg, J. A. MacKinnon, H. M. Sosik, and A. J. Williams, III.**  
Optics, particles, stratification, and storms on the New England continental shelf. *J.Geophys.Res.*, 106(C5):9473-9497, 2001.

**Gebruk, A. V., P. Chevaldonne, T. Shank, R. Lutz, and R. Vrijenhoek.**  
Deep-sea hydrothermal vent communities of the Logatchev area (14°45'N, Mid-Atlantic Ridge): Diverse biotopes and high biomass. *J.Mar.Biol.Assoc.U.K.*, 80(3):383-393, 2000. 10147

**Guardia, Roser, Jose Raventos, and Hal Caswell.**  
Spatial growth and population dynamics of a perennial tussock grass (*Achnatherum calamagrostis*) in a badland area. *J.Ecol.*, 88:950-963, 2000. 10134

**Gueneau, Pulcherie, Francois Morel, Julie Laroche, and Deana Erdner.**  
The petF region of the chloroplast genome from the diatom *Thalassiosira weissflogii*: Sequence, organization and phylogeny. *Eur.J.Phycol.*, 33:203-211, 1998.

**Gulmann, Lara K., Lauren S. Mullineaux, and Heather L. Hunt.**  
Effects of caging on retention of postlarval soft-shell clams (*Mya arenaria*). *J.Shellfish Res.*, 20:135-142, 2001. 10390

**Hahn, Mark E.**  
Dioxin toxicology and the aryl hydrocarbon receptor: Insights from fish and other non-traditional models. *Mar.Biotechnol.*, 3:S224-S238, 2001. 10330

**Hahn, Mark E.**  
Aryl hydrocarbon receptors: Diversity and evolution. *Chemico-Biological Interactions*, 141:131-160, 2002. 10588

**Hahn, Mark E.**  
Biomarkers and bioassays for detecting dioxin-like compounds in the marine environment. *Sci.Total Environ.*, 289:49-69, 2002. 9752

**Hahn, Mark E. and John J. Stegeman.**

Molecular biology and biotechnology in marine toxicology. In: *Opportunities for Environmental Applications of Marine Biotechnology: Proceedings of the October 5-6, 1999, Workshop*. Washington, DC: National Academy Press, :112-125, 2000. 10114

**Halanych, K. M., T. G. Dahlgren, and D. McHugh.**

Unsegmented annelids? Possible origins of four lophotrochozoan worm taxa . *Integr.Comp.Biol.*, 42:678-684, 2002. 10762

**Halanych, Kenneth M., Robert A. Feldman, and Robert C. Vrijenhoek.**

Molecular evidence that *Sclerolinum brattstromi* is closely related to vestimentiferans, not frenulate pogonophorans (Siboglinidae, Annelida). *Biol. Bull.*, 201:65-75, 2001. 10443

**Halanych, Kenneth M., and Yale Passamaneck.**

A brief review of metazoan phylogeny and future prospects in Hox-research. *Am.Zool.*, 41:629-639, 2001. 10441

**Hamersley, M. Robert, and Brian L. Howes.**

Control of denitrification in a septage-treating artificial wetland: The dual role of particulate organic carbon. *Water Res.*, 26:4415-4427, 2002.

**Hamersley, M. Robert, Brian L. Howes, David S. White, Susan Johnke, Dale Young, Susan B. Peterson, and John M. Teal.**

Nitrogen balance and cycling in an ecologically engineered septage treatment system. *Ecol.Eng.*, 18:61-75, 2001. 10324

**Harbison, G. R.**

The parasites and predators of Thaliacea. In: *The Biology of Pelagic Tunicates*. Q. Bone, ed., Oxford: Oxford University Press, :187-214, 1998.

**Harbison, G. R., G. I. Matsumoto, and B. H. Robison.**

*Lampocteis cruentiventer* gen. nov. sp. nov.: A new mesopelagic lobate ctenophore, representing the type of a new family (class Tentaculata, order Lobata, family Lampoctenidae, fam. Nov.). *Bull.Mar.Sci.*, 68(2):299-311, 2001.

**Harris, R. P., P. H. Wiebe, J. Lenz, H. R. Skjoldal, and Mark Huntley.**

*ICES Zooplankton Methodology Manual*. R. P. Harris, P. H. Wiebe, J. Lenz, H. R. Skjoldal, and Mark Huntley, eds., New York: Academic Press, 684 pp., 2000.

**Herdman, M., R. W. Castenholz, I. Itean, J. B. Waterbury, and R. Rippka.**

The cyanobacteria: subsection I (formerly chroococcales wettstein 1924, emend. Rippka, Deruelles, Waterbury, Herdman and Stanier 1979). In: *Bergey's Manual of Systematic Bacteriology*. David R. Boone and Richard W. Castenholz, eds., New York: Springer, 1:493-514, 2001.

**Hestermann, Eli V., John J. Stegeman, and Mark E. Hahn.**

Relative contributions of affinity and intrinsic efficacy to aryl hydrocarbon receptor ligand potency. *Toxicol.Appl.Pharmacol.*, 168(2):160-172, 2000. 10113

**Hestermann, Eli V., John J. Stegeman, and Mark E. Hahn.**

Relationships among the cell cycle, cell proliferation, and aryl hydrocarbon receptor expression in PLHC-1 cells. *Aquat.Toxicol.*, 58:201-213, 2002. 10357

**Hestermann, Eli V., John J. Stegeman, and Mark E. Hahn.**

Serum withdrawal leads to reduced aryl hydrocarbon receptor expression and loss of cytochrome P4501A inducibility in PLHC-1 cells. *Biochem.Pharmacol.*, 63:1405-1414, 2002. 10397

**Hill, Mark F., and Hal Caswell.**

The effects of habitat destruction in finite landscapes: A chain-binomial metapopulation model. *Oikos*, 93:321-331, 2001. 10189

**Hill, Richard W.**

Sampling-induced artifacts in incubation experiments on biological processing of dimethylsulfide and similarly soluble gases. *Aquat.Microb.Ecol.*, 24:143-151, 2001. 9554

**Hill, Richard W., John W. H. Dacey, and Ahser Edward.**

Dimethylsulfoniopropionate in giant clams (*Tridacnidae*). *Biol.Bull.*, 199:108-115, 2000. 9993

**Jensen, Brenda A., and Mark E. Hahn.**

cDNA cloning and characterization of a high affinity aryl hydrocarbon receptor in a cetacean, the beluga, *Delphinapterus leucas*. *Toxicol.Sci.*, 64:41-56, 2001. 10403

**Johnsen, Sonke.**

Hidden in plain sight: The ecology and physiology of organismal transparency. *Biol.Bull.*, 201(3):301-318, 2001. 10555

**Karchner, Sibel I., Wade H. Powell, Diana G. Franks, and Mark E. Hahn.**

Regulatory interactions among three members of the vertebrate aryl hydrocarbon receptor family: AHR repressor, AHR1, and AHR2. *J.Biol.Chem.*, 277(9):6949-6959, 2002. 10562

**Keller, A. A., C. Taylor, C. Oviatt, T. Dorrington, G. Holcombe, and L. Reed.**

Phytoplankton production patterns in Massachusetts Bay and the absence of the 1998 winter-spring bloom. *Mar.Biol.*, 138:1051-1062, 2001.

**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.*, 58:57-73, 2002. 10418

**Kim, Eun-Young, Mark E. Hahn, Hisato Iwata, Shinsuke Tanabe, and Nobuyuki Miyazaki.**

cDNA cloning of an aryl hydrocarbon receptor from Baikal seals (*Phoca sibirica*). *Mar. Environ. Res.*, 54:285-289, 2002. 10475

**Kleindinst, Judith L. and Donald M. Anderson.**

Pfiesteria-related educational products and information resources available to the public, health officials and researchers. *Environ.Health Perspect.*, 109(Supp 5):695-698, 2001. 10367

**Levin, Lisa A., Ron J. Etter, Michael A. Rex, Andrew J. Gooday, Craig R. Smith, Jesus Pineda, Carol T. Stuart, Robert R. Hessler, and David Pawson.**

Environmental influences on regional deep-sea species diversity. *Ann.Rev.Ecol.Syst.*, 32:51-93, 2001.

**Lilly, E. L., D. M. Kulis, P. Gentien, and D. M. Anderson.**

Paralytic shellfish poisoning toxins in France linked to a human-introduced strain of *Alexandrium catenella* from the Western Pacific: Evidence from DNA and toxin analysis. *J.Plankton Res.*, 24(5):443-452, 2002. 10572

**Lundin, Kennet, and Christopher Schander.**

Ciliary ultrastructure of protobranchs (Mollusca, Bivalvia). *Invertebr.Biol.*, 120(4):350-357, 2001. 10115

**Luther, George W. III, Tim F. Rozan, Martial Taillefert, Donald B. Nuzzio, Carol Di Meo, Timothy M. Shank, Richard A. Lutz, and S. Craig Cary.**

Chemical speciation drives hydrothermal vent ecology. *Nature*, 410:813-816, 2001.

**Madin, L. P.**

Taxonomic outline of marine organisms . In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:1120-1130, 2001.

**Madin, L. P., and D. Deibel.**

Feeding and energetics of Thaliacea. In: *The Biology of Pelagic Tunicates*. Q. Bone, ed., Oxford: Oxford University Press, :81-103, 1998.

**Madin, L. P., and G. R. Harbison.**

Gelatinous zooplankton. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:1120-1130, 2001.

**McDowell, Judith E., Bruce A. Lancaster, Dale F. Leavitt, Pirjo Rantamaki, and Bonnie Ripley.**

The effects of lipophilic organic contaminants on reproductive physiology and disease processes in marine bivalve molluscs. *Limnol.Oceanogr.*, 44(3):903-909, 1999.

**Metaxas, Anna.**

Behaviour in flow: Perspectives on the distribution and dispersion of meroplanktonic larvae in the water column. *Can.J.Fish.Aquat.Sci.*, 58(1):86-98, 2001. 10295

**Miller, Patrick J. O., and David E. Bain.**

Within-pod variation in the sound production of a pod of killer whales, *Orcinus orca*. *Anim.Behav.*, 60(5):617-628, 2000. 10156

**Miller, Patrick J. O., Nicoletta Biassoni, Amy Samuels, and Peter L. Tyack.**

Whale songs lengthen in response to sonar. *Nature*, 405:903, 2000. 10192

**Miller, R. L., G. R. Harbison, and S. R. Hilfer.**

Evidence for dioecy in the mesopelagic ctenophore *Bathocyroe fosteri* (Lobata Ctenophora). *Invertebr.Reprod.Dev.*, 37(2):171-183, 2000.

**Neubert, Michael G., Hal Caswell, and J. D. Murray.**

Transient dynamics and pattern formation: Reactivity is necessary for Turing instabilities. *Math.Biosci.*, 175:1-11, 2002. 10565

**Nowacek, Douglas P., Mark P. Johnson, Peter L. Tyack, Kenneth A. Shorter, William A. McLellan, and D. Ann Pabst.**

Buoyant balaenids: The ups and downs of buoyancy in right whales. *Proc.R.Soc.Lond.B*, 268:1811-1816, 2001. 10463

**Nowacek, Douglas P., Randall S. Wells, and Peter L. Tyack.**

A platform for continuous behavioral and acoustic observation of free-ranging marine mammals: Overhead video combined with underwater audio. *Mar.Mamm.Sci.*, 17(1):191-199, 2001. 10087

**Olli, Kalle, and Jukka Sepala.**

Vertical niche separation of phytoplankton: Large-scale mesocosm experiments. *Mar.Ecol.Prog.Ser.*, 217:219-233, 2001. 10343

**Olson, R. J., H. M. Sosik, and A. M. Chekalyuk.**

Photosynthetic characteristics of marine phytoplankton from pump -during-probe fluorometry of individual cells at sea. *Cytometry*, 37(1):1-13, 1999. 9926

**Orcutt, K. M., U. Rasmussen, E. A. Webb, J. B. Waterbury, K. Gundersen, and B. Bergman.**

Characterization of *Trichodesmium* spp. by genetic techniques. *Appl. Environ. Microbiol.*, 68(5):2236-2245, 2002.

**Pearce, C. M., Scott M. Gallager, Joan L. Manuel, Darlene A. Manning, Ron K. O'Dor, and Edwin Bourget.**

Effect of thermoclines and turbulence on depth of larval settlement and spat recruitment of the giant scallop *Placopecten magellanicus* in 9.5 m deep laboratory mesocosms. *Mar. Ecol. Prog. Ser.*, 165:195-215, 1998.

**Pershing, Andrew J., Peter H. Wiebe, James P. Manning, and Nancy J. Copley.**

Evidence for vertical circulation cells in the well-mixed area of Georges Bank and their biological implications. *Deep-Sea Res. II*, 48(1-3):283-310, 2001. 9810

**Pineda, Jesus, and Manuel Lopez.**

Temperature, stratification and barnacle larval settlement in two Californian sites. *Cont. Shelf Res.*, 22:1183-1198, 2002. 10521

**Pineda, Jesus, Dirk Riebensahm, and Dorothy Medeiros-Bergen.**

*Semibalanus balanoides* in winter and spring: Larval concentration, settlement, and substrate occupancy. *Mar. Biol.*, 140(4):789-800, 2002. 10553

**Powell, Wade H., and Mark E. Hahn.**

Identification and functional characterization of hypoxia-inducible factor 2 $\alpha$  from the marine teleost, *Fundulus heteroclitus*: Interaction of HIF-2 $\alpha$  with two ARNT2 splice variants. *J. Exp. Zool.*, 294:17-29, 2002. 10499

**Rippka, R., J. B. Waterbury, M. Herdman, and R. W. Castonholz.**

The cyanobacteria: subsection II (formerly *Pleurocapsales* geiter 1925, emend. Waterbury, and Steiner, 1978). In: *Bergey's Manual of Systematic Bacteriology*. David R. Boone and Richard W. Castenholz, eds., New York: Springer, 1:514-539, 2001.

**Rosenbaum, H. C., R. L. Brownell, M. W. Brown, C. Schaeff, V. Portway, B. N. White, S. Malik, L. A. Pastene, N. J. Patenaude, C. S. Baker, M. Goto, P. B. Best, P. J. Clapham, P. Hamilton, M. Moore, R. Payne, V. Rowntree, C. T. Tynan, J. L. Bannister, and R. DeSalle.**

World-wide genetic differentiation of *Eubalaena*: questioning the number of right whale species. *Mol. Ecol.*, 9:1793-1802, 2000.

**Sancho, Gorka.**

Predatory behaviors of *Caranx melampygus* (Carangidae) feeding on spawning reef fishes: A novel ambushing strategy. *Bull. Mar. Sci.*, 66(2):487-496, 2000. 10122

**Sancho, Gorka, Christopher W. Petersen, and Phillip S. Lobel.**

Predator-prey relations at a spawning aggregation site of coral reef. *Mar. Ecol. Prog. Ser.*, 203:275-288, 2000. 10123

**Sancho, Gorka, Andrew R. Solow, and Phillip S. Lobel.**

Environmental influences on the diel timing of spawning in coral reef fishes. *Mar. Ecol. Prog. Ser.*, 206:193-212, 2000. 10121

**Sanders, R. W., D. A. Caron, J. M. Davidson, M. R. Dennett, and D. M. Moran.**

Nutrient acquisition and population growth of a mixotrophic alga in axenic and bacterized cultures. *Microb.Ecol.*, 42:513-523, 2001.

**Sayigh, Laela S., Peter L. Tyack, Randall S. Wells, Andrew R. Solow, Michael D. Scott, and A. B. Irvine.**

Individual recognition in wild bottlenose dolphins: A field test using playback experiments. *Anim.Behav.*, 57(1):41-50, 1999. 9238

**Schander, Christoffer, and Per Sundberg.**

Useful characters in gastropod phylogeny-soft information or hard facts? *Syst.Biol.*, 50(1):136-141, 2001. 9946

**Schander, Christoffer, Jacobus J. van Aartsen, and James X. Corgan.**

Families and genera of the Pyramidelloidea (mollusca: gasropoda). *Boll.Malacol.*, 34(9-12):145-166, 1999. 9986

**Scheltema, Amelie H., and Christoffer Schander.**

Discrimination and phylogeny of solenogaster species through the morphology of hard parts (Mollusca, Aplacophora, Neomeniomorpha). *Biol.Bull.*, 198:121-151, 2000. 9746

**Sell, Anne F., Donna van Keuren, and Laurence P. Madin.**

Predation by omnivorous copepods on early developmental stages of *Calanus finmarchicus* and *Pseudocalanus* spp.. *Limnol.Oceanogr.*, 46(4):953-959, 2001. 10386

**Sengco, Mario R., Aishao Li, Kimberly Tugend, David Kulis, and Donald M. Anderson.**

Removal of red and brown tide cells using clay flocculation: 1. Laboratory culture experiments with *Gymnodinium breve* and *Aureococcus anophagefferens*. *Mar.Ecol.Prog.Ser.*, 210:41-53, 2001. 10142

**Sigalevich, Pavel, Mark V. Baev, Andreas Teske, and Yehuda Cohen.**

Sulfate reduction and possible aerobic metabolism of the sulfate-reducing bacterium *Desulfovibrio oxyclineae* in a chemostat coculture with *Marinobacter* sp. Strain MB under exposure to increasing oxygen concentrations. *Appl.Environ.Microbiol.*, 66(11):5013-5018, 2000.

**Smolowitz, Roxanna, Dale Leavitt, and Frank Perkins.**

Observations of a protistan disease similar to QPX in *Mercenaria mercenaria* (hard clams) from the coast of Massachusetts. *J.Invertebr.Pathol.*, 71:9-25, 1998.

**Solow, Andrew, Cabell Davis, and Qiao Hu.**

Estimating the composition of a sample when individuals are classified with error. *Mar.Ecol.Prog.Ser.*, 216:309-311, 2001. 10298

**Sosik, Heidi M., and Robert J. Olson.**

Phytoplankton and iron limitation of photosynthetic efficiency in the Southern Ocean during late summer. *Deep-Sea Res.I*, 49:1125-1216, 2002. 10509

**Souza, A. J., and J. Pineda.**

Tidal mixing modulation of sea-surface temperature and diatom abundance in Southern California. *Cont.Shelf Res.*, 21:651-666, 2001. 9872

**Stanton, Timothy K., Dezhang Chu, and Peter H. Wiebe.**

Acoustic scattering models of zooplankton from several major anatomical groups: theory and experiment. In: *16th International Congress on Acoustics and 135th Meeting Acoustical Society of America, The Sound of the Future: A Global View of Acoustics in the 21st Century, Seattle, Washington, 20-26 June 1998*. Patricia K. Kuhl and Lawrence A. Crum, eds., 3:1811-1812, 1998. 9665



**Stegeman, John J., Jennifer J. Schlezinger, Donald E. Tillitt, and James E. Craddock.**

Cytochrome P450 1A expression in midwater fishes: Potential effects of chemical contaminants in remote oceanic zones. *Environ.Sci.Technol.*, 35:54-62, 2001. 10003

**Tang, Xiaou, K. W. Stewart, Luc Vincent, He Huang, Marty Marra, Scott M. Gallager, and Cabell S. Davis.**

Automatic plankton image recognition. *Artificial Intelligence Review*, 12(1-3):177-199, 1998. 9214

**Teal, J. M.**

Salt marshes and mud flats. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 5:2490-2495, 2001.

**Teske, Andreas, Kai-Uwe Hinrichs, Virginia Edgcomb, Alvin de Vera Gomez, David Hysela, Sean P. Sylva, Mitchell L. Sogin, and Holger W. Jannasch.**

Microbial diversity of hydrothermal sediments in the Guaymas Basin: Evidence for anaerobic methanotrophic communities. *Appl.Environ.Microbiol.*, 68(4):1994-2007, 2002. 10624

**Teske, Andreas P., and David A. Stahl.**

Microbial mats and biofilms: Evolution, structure, and function of fixed microbial communities. In: *Biodiversity of Microbial Life Foundation of Earth's Biosphere*. James T. Staley, Anna-Louise Reysenbach, eds., New York: Wiley-Liss, :49-100, 2002. 10399

**Thomas, Rebecca E., Kurt M. Fristrup, and Peter L. Tyack.**

Linking the sounds of dolphins to their locations and behavior using video and multichannel acoustic recordings. *J.Acoust.Soc.Am.*, 112(4):1692-1701, 2002. 10444

**Turner, Jefferson T., Gregory J. Doucette, Christine L. Powell, David M. Kulis, Bruce A. Keafer, and Donald M. Anderson.**

Accumulation of red tide toxins in larger size fractions of zooplankton assemblages from Massachusetts Bay, USA. *Mar.Ecol.Prog.Ser.*, 203:95-107, 2000. 10021

**Tyack, P. L.**

Communication and Cognition. In: *Biology of Marine Mammals*, John E. Reynolds, III and John R. Twiss Jr., eds., Washington, DC: Smithsonian Press, :287-323, 1999. 9250

**Tyack, P. L.**

Marine mammal overview. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 3:1611-1621, 2001.

**Tyack, P. L.**

Marine mammal social organization and communication. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 3:1621-1628, 2001.

**Tyack, P. L., and C. W. Clark.**

Communication and acoustic behavior of dolphins and whales. In: *Hearing by Whales and Dolphins*. Whitlow W.L. Au, Arthur N. Popper, Richard R. Fay, eds., New York: Springer, :156-224, 2000. 10184

**Urbach, E., D. J. Scanlan, D. L. Distel, J. B. Waterbury, and S. W. Chisholm.**

Rapid diversification of marine picophytoplankton with dissimilar light-harvesting structures inferred from sequences of Prochlorococcus and Synechococcus (cyanobacteria). *J.Mol.Evol.*, 46(2):188-201, 1998.

**Verbrugge, L. A., J. P. Giesy, D. A. Verbrugge, B. R. Woodin, and J. J. Stegeman.**

Catalytic and immunochemical properties of hepatic cytochrome P450 1A in three avian species treated with beta-naphthoflavone or isosafrole. *Comp.Biochem.Physiol.*, 130:67-82, 2001. 10493

**von Herbing, Ione Hunt, Scott M. Gallager, and William Halteman.**

Metabolic costs of pursuit and attack in early larval Atlantic Cod. *Mar.Ecol.Prog.Ser.*, 216:201-212, 2001.

**Wang, Mei-Hui, Mark Kot, and Michael G. Neubert.**

Integrodifference equations, Allee effects, and invasions. *J.Math.Biol.*, 44:150-168, 2002.

**Watkins, William A., Mary Ann Daher, Nancy A. DiMarzio, Amy Samuels, Douglas Wartzok, Kurt M. Fristrup, Paul W. Howey, and Romaine R. Maiefski.**

Sperm whale dives tracked by radio tag telemetry. *Mar.Mamm.Sci.*, 18(1):55-68, 2002. 10110

**Weisbrod, Anne V., Damian Shea, Michael J. Moore, and John J. Stegeman.**

Bioaccumulation patterns of polychlorinated biphenyls and chlorinated pesticides in Northwest Atlantic pilot whales. *Environ.Toxicol.Chem.*, 19(3):667-677, 2000.

**Wiebe, P. H., and M. C. Benfield**

Zooplankton sampling with nets and trawls. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 6:3273-3253, 2001.

**Wiebe, Peter H., Timothy K. Stanton, Charles H. Greene, Mark C. Benfield, Heidi M. Sosik, Tom Austin, Joseph D. Warren, and Terry Hammar.**

BIOMAPER-II: An integrated instrument platform for coupled biological and physical measurements in coastal and oceanic regimes. *IEEE J.Oceanic Eng.*, 27(3):700-716, 2002S. 10655

**Wirsen, C. O., S. M. Sievert, C. M. Cavanaugh, S. J. Molyneaux, A. Ahmad, L. T. Taylor, E. F. Delong, and C. D. Taylor.**

Characterization of an autotrophic sulfide-oxidizing marine Arcobacter that produces filamentous sulfur. *Appl.Environ.Microbiol.*, 68(1):316-325, 2002. 10519

**Zehr, Jonathan P., John B. Waterbury, Patricia J. Turner, Joseph P. Montoya, Enoma Omoregie, Grieg F. Steward, Andrew Hansen, and David M. Karl.**

Unicellular cyanobacteria fix N<sub>2</sub> in the subtropical North Pacific Ocean. *Nature*, 412:635-638, 2001.

**Zemmelink, H. J., W. W. C. Gieskes, P. M. Holland, and J. W. H. Dacey.**

Preservation of atmospheric dimethyl sulphide samples on Tenax in sea-to-air flux measurements. *Atmos.Environ.*, 36:911-916, 2002. 10538

**Zopfi, Jakob, Timothy G. Ferdelman, Bo Barker Jorgensen, Andreas Teske, and BoThamdrup.**

Influence of water column dynamics on sulfide oxidation and other major biogeochemical processes in the chemocline of Mariager Fjord (Denmark). *Mar.Chem.*, 74:29-51, 2001. 10204

## Geology and Geophysics

**Acosta, J., A. Munoz, P. Herranz, C. Palomo, M. Ballesteros, M. Vaquero, and E. Uchupi.**

Pockmarks in the Ibiza Channel and western end of the Balearic Promontory (western Mediterranean) revealed by multibeam mapping. *Geo-Mar.Lett.*, 21:123-130, 2001.

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

Making sense of millennial-scale climate change. In: *Mechanisms of Global Climate Change at Millennial Time Scales. Geophysical Monograph 112*. Peter U. Clark, Robert S. Webb, and Lloyd D. Keigwin, eds., Washington, DC: American Geophysical Union, :385-394, 1999.

**Andrews, J. T., L. Keigwin, and A. E. Jennings.**

Abrupt deglaciation events and Holocene palaeoceanography from high-resolution cores, Cartwright Saddle, Labrador Shelf, Canada. *J.Quat.Sci.*, 14(5):383-397, 1999.

**Bach, Wolfgang, Jeffrey C. Alt, Yaoling Niu, Susan E. Humphris, Jorg Erzinger, and Henry J. B. Dick.**

The geochemical consequences of late-stage low-grade alteration of lower ocean crust at the SW Indian Ridge: Results from ODP Hole 735B (Leg 176). *Geochim.Cosmochim.Acta*, 65(19):3267-3287, 2001. 10459

**Bains, Santo, Richard D. Norris, Richard M. Corfield, and Kristina L. Faul.**

Termination of global warmth at the Palaeocene/Eocene boundary through productivity feedback. *Nature*, 407:171-174, 2000.

**Behn, Mark D., and Jian Lin.**

Segmentation in gravity and magnetic anomalies along the U. S. East Coast passive margin: Implications for incipient structure of the oceanic lithosphere. *J.Geophys.Res.*, 105(B11):25769-25790, 2000. 10313

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

A continuum mechanics model for normal faulting using a strain-rate softening rheology: Implications for thermal and rheological controls on continental and oceanic rifting. *Earth Planet.Sci.Lett.*, 202:725-740, 2002. 10545

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

Mechanisms of normal fault development at mid-ocean ridges. *J.Geophys.Res.*, 107(B4),2083,doi:10.1029/2001JB000503, 2002. 10540

**Belkin, Igor M., R. Krishfield, and S. Honjo.**

Decadal variability of the North Pacific polar front: Subsurface warming versus surface cooling. *Geophys.Res.Lett.*, 29(9):65-1-65-4, 2002.

**Billups, K., A. C. Ravelo, J. C. Zachos, and R. D. Norris.**

Link between oceanic heat transport, thermohaline circulation, and the Intertropical Convergence Zone in the early Pliocene Atlantic. *Geology*, 27(4):319-322, 1999.

**Blackman, Donna K., Johnson R. Cann, Bob Janssen, and Deborah K. Smith.**

Origin of extensional core complexes: evidence from the Mid-Atlantic Ridge at Atlantis Fracture Zone. *J.Geophys.Res.*, 103(B9):21315-21333, 1998.

**Bolle, M.-P., A. Pardo, K.-U. Hinrichs, T. Adatte, K. Von Salis, S. Burns, G. Keller, and N. Muzylev.**

The Paleocene-Eocene transition in the marginal northeastern Tethys (Kazakhstan and Uzbekistan). *Int.J.Earth Sci.*, 89:390-414, 2000.

**Borisova, Anastassia Yu, Ignor K. Nikogosian, James S. Scoates, Dominique Weis, Dimitri Damasceno, Nobumichi Shimizu, and Jacques L. R. Touret.**

Melt, fluid and crystal inclusions in olivine phenocrysts from Kerguelen plume-derived picritic basalts: Evidence for interaction with the Kerguelen Plateau lithosphere. *Chem.Geol.*, 183:195-220, 2002.

**Canales, J. P., J. J. Danobeitia, and A. B. Watts.**

Wide-angle seismic constraints on the internal structure of Tenerife, Canary Islands. *J.Volcanol.Geotherm.Res.*, 103:65-81, 2000.

**Chadwick, W., E. Baker, D. Butterfield, P. Canales, S. Carbotte, D. Caress, D. Chadwell, R. Detrick, J. Diebold, A. Harding, J. Hildebrand, H. Jannasch, K. Johnson, G. Kent, R. Koski, J. Morton, W. Normark, M. Perfit, C. Reiss, et al.**

The RIDGE Seafloor Observatory at the Cleft Segment: Investigation of linkages between geodetic, geophysical, geochemical, and water column processes. *RIDGE Events*, 11(1):18-24, 2001.

**Chen, Y. John, and Jian Lin.**

Mechanisms for the formation of ridge-axis topography at slow-spreading ridges: A lithospheric-plate flexural model. *Geophys.J.Int.*, 136:8-18, 1999.

**Clift, Peter, Jae Il Lee, Marin K. Clark, and Jerzy Blusztajn.**

Erosional response of South China to arc rifting and monsoonal strengthening: A record from the South China Sea. *Mar.Geol.*, 184(3-4):207-226, 2002. 10542

**Clift, Peter D., Nobumichi Shimizu, Graham D. Layne, and Jerzy Blusztajn.**

Tracing patterns of erosion and drainage in the paleogene Himalaya through ion probe Pb isotope analysis of detrital K-feldspars in the Indus Molasse, India. *Earth Planet.Sci.Lett.*, 188:475-491, 2001. 10457

**Cochran, James R., Daniel J. Fornari, Bernard J. Coakley, Randall Herr, and Maurice A. Tivey.**

Continuous near-bottom gravity measurements made with a BGM -3 gravimeter in DSV ALVIN on the East Pacific Rise Crest near 9°31'N and 9°50'N. *J.Geophys.Res.*, 104(B5):10841-10861, 1999. 9890

**Detrick, Robert S.**

Portrait of a magma chamber. *Nature*, 406:578-579, 2000.

**dos Santos Neto, Eugenio vaz, John M. Hayes, and Tikae Takaki.**

Paleoclimatic assessment of cretaceous lacustrine and marine-evaporitic sequences from the Potiguar Basin (Brazil) based on the hydrogen isotopic compositions of saturated hydrocarbons. *Rev.Lat.Am.Geoguim.Org.*, 4:5-24, 1998.

**Draut, Amy E., and Peter D. Clift.**

The origin and significance of the Delaney Dome Formation, Connemara, Ireland. *J. Soc.London*, 159(1):95-103, 2002. 10546

**Erbacher, Jochen, Brian T. Huber, Richard D. Norris, and Molly Markey.**

Increased thermohaline stratification as a possible cause for an ocean anoxic event in the Cretaceous period. *Nature*, 409:325-327, 2001.

**Evans, B., J. Renner, and G. Hirth.**

A few remarks on the kinetics of static grain growth in rocks. *Int.J.Earth Sci.*, 90:88-103, 2001.

**Evans, Rob. L., Alan D. Chave, and John R. Booker.**

On the importance of offshore data for magnetotelluric studies of ocean-continent subduction systems. *Geophys.Res.Lett.*, 29(9),doi:10.1029/2001GL013960, 2002. 10535

**Fornari, D. J.**

Deep submergence, science of. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:643-658, 2001.

**Fornari, Daniel J., Rachel M. Haymon, Michael R. Perfit, and Tracy K. Gregg.**

Axial summit trough of the East Pacific Rise 9° - 10°N: Geological characteristics and evolution of the axial zone on fast-spreading mid-ocean ridges. *J.Geophys.Res.*, 103(B5):9827-9855, 1998. 9643

**Fornari, Dan, Greg Kurras, Margo Edwards, Wayne Spencer, and Bill Hersey.**

Mapping volcanic morphology on the crest of the East Pacific Rise 9°49'-52'N using the WHOI towed camera system: a versatile new digital camera sled for seafloor mapping. *BRIDGE Newsletter*, 14:4-12, 1998.

**Fryer, P., D. J. Fornari, and M. R. Perfit.**

Future research directions in deep submergence science. *Mar. Technol. Soc. J.*, 33(4):74-79, 2000.

**Gaetani, Glenn A., and Bruce E. Watson.**

Modeling the major-element evolution of olivine-hosted melt inclusions. *Chem. Geol.*, 183:25-41, 2002.

**Garrido, Carlos J., Peter B. Kelemen, and Greg Hirth.**

Variation of cooling rate with depth in lower crust formed at an oceanic spreading ridge: Plagioclase crystal size distributions in gabbros from the Oman ophiolite. *Geochem. Geophys. Geosys.*, 2:16 October 2001, Paper no.: 2000GC1110136, <http://g-cubed.org/gc2001/2000GC000136/article2000GC000136.pdf>, 2001.

**Harris, Robert N., Grant Garven, Jennifer Georgen, Marcia K. McNutt, Lizet Christiansen, and Richard P. Von Herzen.**

Submarine hydrogeology of the Hawaiian archipelagic apron 2. Numerical simulations of coupled heat transport and fluid flow. *J. Geophys. Res.*, 105(B9):21371-21385, 2000.

**Harris, Robert N., Richard P. Von Herzen, Marcia K. McNutt, Grant Garven, and Kelsey Jordahl.**

Submarine hydrogeology of the Hawaiian archipelagic apron 1. Heat flow patterns north of Oahu and Maro Reef. *J. Geophys. Res.*, 105(B9):21353-21369, 2000. 10207

**Hayes, John M.**

Fractionation of the isotopes of carbon and hydrogen in biosynthetic processes. In: *Stable Isotope Geochemistry, Reviews in Mineralogy and Geochemistry*. John W. Valley and David R. Cole, eds., Mineralogical Society of America, 43:225-278, also available at [nosams.who.edu/jmh/](http://nosams.who.edu/jmh/), 2001.

**Hinrichs, K.-U., Richard D. Pancost, Roger E. Summons, G. Dennis Sprott, Sean P. Sylva, Jaap S. Sinninghe Damste, and John M. Hayes.**

Mass spectra of sn-2-hydrozyarchaeol, a polar lipid biomarker for anaerobic methanotrophy. *Geochem. Geophys. Geosys.*, 1:26 May 2000, Paper no.: 2000GC000042, <http://g-cubed.org/gc2000/2000GC000042/article2000GC000042.pdf>, 2000.

**Hinrichs, K.-U., R. R. Schneider, P. J. Muller, and J. Rullkotter.**

A biomarker perspective on paleoproductivity variations in two Late Quaternary sediment sections from the Southeast Atlantic Ocean. *Org. Geochem.*, 30:341-366, 1999.

**Hinrichs, Kai-Uwe, Geoffrey Eglinton, Michael H. Engel, and Roger E. Summons.**

Exploiting the multivariate isotopic nature of organic compounds. *Geochem. Geophys. Geosys.*, 2:2 July 2002, Paper no.: 2001GC000142, <http://g-cubed.org/gc2001/2001GC000142/article2001GC000142.pdf>, 2001.

**Hirth, G., J. W. Dunlap, and C. Teyssier.**

Dislocation creep regimes in naturally deformed quartz aggregates. In: *Fault-Related Rocks*. A. W. Snoke, J. A. Tullis, and V. R. Todd, eds., Princeton University Press, :500-501, 1998.

**Hirth, G., and J. Tullis.**

Dislocation creep regimes in experimentally deformed quartz aggregates. In: *Fault-Related Rocks*. A. W. Snoke, J. A. Tullis, and V. R. Todd, eds., Princeton University Press, :496-499, 1998.

**Holbrook, W. Steven, H. C. Larsen, J. Korenaga, T. Dahl-Jensen, I. D. Reid, P. B. Kelemen, J. R. Hopper, G. M. Kent, D. Lizarralde, S. Bernstein, and R. S. Detrick.**

Mantle thermal structure and active upwelling during continental breakup in the North Atlantic. *Earth Planet.Sci.Lett.*, 190:251-266, 2001.

**Honjo, S.**

Trapped particulate flux. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 6:3045-3048, 2001.

**Honjo, Susumu, Jack Dymond, Warren Prell, and Venugopalan Ittekkot.**

Monsoon-controlled export fluxes to the interior of the Arabian Sea. *Deep-Sea Res. II*, 46:1859-1902, 1999. 9916

**Hotinski, R., K. Bice, L. Kump, R. Najjar, and M. Arthur.**

Ocean stagnation and end-Permian anoxia. *Geology*, 29:7-10, 2001.

**Humphris, Susan E.**

The FY'00 ODP science plan; Legs 188-193. *JOIDES Journal*, 24(2):38-40, 1998.

**Humphris, Susan E., and Margaret K. Tivey.**

A synthesis of geological and geochemical investigations of the TAG hydrothermal field: Insights into fluid flow and mixing processes in a hydrothermal system. In: *Ophiolites and Oceanic Crust*. Boulder, CO: Geological Society of America, 349:213-235, 2000. 10009

**Jahnke, Linda L., Wolfgang Eder, Robert Huber, Janet M. Hope, Kai-Uwe Hinrichs, John M. Hayes, David J. Des Marais, Sherry L. Cady, and Roger S. Summons.**

Signature lipids and stable carbon isotope analyses of Octopus Spring hyperthermophilic communities compared with those of Aquificales representatives. *Appl. Environ. Microbiol.*, 67(11):5179-5189, 2001.

**Johnson, Kevin T. M., Jennifer R. Reynolds, Denys Vonderhaar, Deborah K. Smith, and Laura S. Kong.**

Petrological systematics of submarine basalt glasses from the Puna Ridge, Hawai'i: Implications for rift zone plumbing and magmatic processes. In: *Hawaiian Volcanoes: Deep Underwater Perspectives*. *Geophysical Monograph 128*. Eiichi Takahashi, Peter W. Lipman, Michael O. Garcia, Jiro Naka, and Shigeo Aramaki, eds., Washington, DC: American Geophysical Union, :143-159, 2002.

**Jones, Alan G., Ian J. Ferguson, Alan D. Chave, Rob L. Evans, and Gary W. McNeice.**

Electric lithosphere of the Slave craton. *Geology*, 29:423-426, 2001. 10279

**Jull, M., P. B. Kelmen, and K. Sims .**

Consequences of diffuse and channelled porous melt migration on uranium series disequilibria. *Geochim. Cosmochim. Acta*, 66(23):4133-4148, 2002. 10716

**Karner, Garry D., and Neal W. Driscoll.**

Tectonic and stratigraphic development of the West African and eastern Brazilian margins; insights from quantitative basin modelling. In: *The Oil and Gas Habitats of the South Atlantic*. Nick R. Cameron, Raymond H. Bate, and Val S. Clure, eds., London: The Geological Society, :11-40, 1999. 9748

**Kelemen, Peter B., Michael Braun, and Greg Hirth.**

Spatial distribution of melt conduits in the mantle beneath oceanic spreading ridges: Observations from the Ingalls and Oman ophiolites. *Geochem. Geophys. Geosys.*, 1:11 June 2000, Paper no. 1999GC000012, <http://g-cubed.org/gc2000/1999GC000012/article1999GC000012.pdf>, 2000.

**Koga, Kenneth T., Peter B. Kelemen, and Nobumichi Shimizu.**

Petrogenesis of the crust-mantle transition zone and the origin of lower crustal wehrlite in the Oman ophiolite. *Geochem. Geophys. Geosys.*, 2:4 Sept 2001, Paper no. 200GC000132, <http://gc-cubed.org/gc2001/2000GC000132/article2000GC000132.pdf>, 2001.

**Kroon, D., R. D. Norris, and A. Klaus.**

Drilling Blake Nose; the search for evidence of extreme Palaeogene-Cretaceous climates and extraterrestrial event. *Geol. Today*, 14(6):222-226, 1998.

**Kroon, Dick, Richard D. Norris, and Adam Klaus.**

*Western North Atlantic Palaeogene and Cretaceous Palaeoceanography*. D. Kroon, R. D. Norris, and A. Klaus, eds., London: The Geological Society, 319 pg., 2001.

**Kurras, G. J., M. H. Edwards, and D. J. Fornari.**

High-resolution bathymetry of the East Pacific Rise axial summit trough 9°49' - 51'N: A compilation of Alvin scanning sonar and altimetry data from 1991-1995. *Geophys. Res. Lett.*, 25(8):1209-1212, 1998. 9647

**Lynch-Stieglitz, Jean, William B. Curry, and Niall Slowey.**

Weaker Gulf Stream in the Florida Straits during the last glacial maximum. *Nature*, 402(6762):644-648, 1999.

**Marchitto, Thomas, Glenn A. Jones, Glenn A. Goodfriend, and Christopher R. Weidman.**

Precise temporal correlation of Holocene mollusk shells using sclerochronology. *Quat. Res.*, 53(2):236-246, 2000. 9821

**McCorkle, D. C., H. H. Veeh, and D. T. Heggie.**

Glacial-interglacial paleoceanography from Australian margin sediments: northwest Australian margin and Great Australian Bight. *AGSO J. Aust. Geol. Geophys.*, 17(5/6):145-157, 1999.

**McNichol, A. P., A. J. T. Jull, and G. S. Burr.**

Converting AMS data to radiocarbon values: Considerations and conventions. *Radiocarbon*, 43(2A):313-320, 2001. 10578

**Mix, A. C., E. Bard, G. Eglinton, L. D. Keigwin, A. C. Ravelo, and Y. Rosenthal.**

Alkyls and multiproxy strategies in paleoceanographic studies. *Geochem. Geophys. Geosys.*, <http://gc-cubed.org/gc2000/2000GC000056/article2000GC000056.pdf>, 2000.

**Moore, L. J.**

Shoreline mapping techniques. *J. Coast. Res.*, 16(1):111-124, 2000.

**Nazarova, Katherine A., Peter J. Wasilewski, and Henry J. B. Dick.**

Magnetic study of serpentized harzburgites from the Islas Orcadas Fracture Zone. *Mar. Geophys. Res.*, 21(5):475-488, 2000.

**Nelson, D. M., R. F. Anderson, R. T. Barber, M. A. Brzezinski, K. O. Buesseler, Z. Chase, R. W. Collier, M.-L. Dickson, R. Francois, M. Hiscock, S. Honjo, J. Mara, W. R. Martin, R. N. Sambrotto, F. Sayles, and D. Sigmon.**

Vertical budgets for organic carbon and biogenic silica in the Pacific sector of the Southern Ocean, 1996-1998. *Deep-Sea Res. II*, 49:1645-1674, 2002.

**Norris, R., A. Klaus, and D. Kroon.**

Mid-Eocene deep water, the Late Palaeocene thermal maximum and continental slope mass wasting during the Cretaceous-Palaeogene impact. In: *Western North Atlantic Palaeogene and Cretaceous Palaeoceanography*. D. Kroon, R. D. Norris, and A. Klaus, eds., London: The Geological Society, :23-48, 2001.

**Norris, R. D., and J. Firth.**

Mass wasting of Atlantic continental margins following the Chicxulub impact event. In: *Catastrophic Events and Mass Extinctions: Impacts and Beyond*. C. Koeberl and K. G. MacLeod, eds., Boulder, CO: GSA, :79-95, 2002.

**Norris, Richard D., Karen L. Bice, Elizabeth A. Magno, and Paul A. Wilson.**

Jiggling the tropical thermostat in the Cretaceous hothouse. *Geology*, 30(4):299-302, 2002.

**Norris, Richard D., Byong-Kwon Park, Sunh-Ho Kang, Boo-Keun Khim.**

Stable isotope and ecological habitat of planktonic foraminifera adjacent to the ice edge in the western Weddell Sea. *Geosci.J.*, 2(2):88-98, 1998.

**Orphan, V. J., K-U. Hinrichs, W. Ussler III, C. K. Paull, L. T. Taylor, S. P. Sylva, J. M. Hayes, and E. F. Delong.**

Comparative analysis of methane-oxidizing archaea and sulfate-reducing bacteria in anoxic marine sediments. *Appl. Environ. Microbiol.*, 67(4):1922-1934, 2001.

**Pearson, A., A. P. McNichol, B. C. Benitez-Nelson, J. M. Hayes, and T. I. Eglinton.**

Origins of lipid biomarkers in Santa Monica Basin surface sediment: A case study using compound-specific  $\delta^{14}\text{C}$  analysis. *Geochim. Cosmochim. Acta*, 65(18):3123-3137, 2001.

**Quillevere, Frederic, Richard D. Norris, Issam Moussa, and William A. Berggren.**

Role of photosymbiosis and biogeography in the diversification of early Palaeogene acarininids (planktonic foraminifera). *Paleobiology*, 27(2):311-326, 2001. 10369

**Ravizza, G., J. Blusztajn, and H. M. Prichard.**

Re-Os systematics and platinum-group element distribution in metalliferous sediments from the Troodos ophiolite. *Earth Planet. Sci. Lett.*, 188:369-381, 2001.

**Ravizza, G., R. M. Sherrell, M. P. Field, and E. A. Pickett.**

Geochemistry of the Margi umbers, Cyprus, and the Os isotope composition of Cretaceous seawater. *Geology*, 27(11):971-974, 1999.

**Ravizza, G. E.**

Platinum group elements and their isotopes in the ocean. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 4:2208-2217, 2001.

**Renner, Jorg, Brian Evans, and Greg Hirth.**

Grain growth and inclusion formation in partially molten carbonate rocks. *Contrib. Mineral. Petrol.*, 142:501-514, 2002.

**Rohl, U., T. J. Bralower, R. D. Norris, and G. Wefer.**

New chronology for the late Paleocene thermal maximum and its environmental implications. *Geology*, 28:927-930, 2000.

**Rosenthal, Y., G. P. Lohmann, K. C. Lohmann, and R. M. Sherrell.**

Incorporation and preservation of Mg in *Globigerinoides sacculifer*: Implications for reconstructing the temperature and  $^{18}\text{O}/^{16}\text{O}$  of seawater. *Paleoceanography*, 15(1):135-145, 2000. 9943

**Rosenthal, Yair, and George P. Lohmann.**

Accurate estimation of sea surface temperatures using dissolution-corrected calibrations for Mg/Ca paleothermometry. *Paleoceanography*, 17(3):1044, doi:10.1029/2001PA000749, 2002, 2002.



**Ross, D. A.**

*The Fisherman's Ocean*. Stackpole Books, Mechanicsburg, PA, 299 pp., 2000.

**Scheirer, Daniel S., Daniel J. Fornari, Susan E. Humphris, and Steve Lerner.**

High-resolution seafloor mapping using the DSL-120 sonar system: Quantitative assessment of sidescan and phase-bathymetry data from the Lucky Strike segment of the Mid-Atlantic Ridge. *Mar. Geophys. Res.*, 21(1/2):121-142, 2000. 10107

**Scherreiks, Rudolph and Peter D. Clift.**

On the origin of some Eohellenic ophiolites (commentary on Clift & Dixon 1998: jurassic ridge collapse, subduction initiation and ophiolite obduction in the southern Greek Tethys. *Eclogae Helv* 91/1). *Eclogae Helv.*, 91(3):431-434, 1998.

**Schouten, Hans and Charles R. Denham.**

Comparison of volcanic construction in the Troodos ophiolite and ocean crust using paleomagnetic inclinations from Cyprus Crustal Study Project (CCSP) CY-1A and Ocean Drilling Program (ODP) 504B drill cores. In: *Ophiolites and Oceanic Crust: New Insights From Field Studies and the Ocean Drilling Program*. Yildirim Dilek et al., eds., Boulder, CO: Geological Society of America, :181-194, 2000. 10111

**Schrag, Daniel P., Jess F. Adkins, Katherine McIntyre, Jane L. Alexander, David A. Hodell, Christopher D. Charles, and Jerry F. McManus.**

The oxygen isotopic composition of seawater during the Last Glacial Maximum *Quat.Sci.Rev.*, 21:331-342, 2002.

**Schultz, Richard A.**

Localization of bedding-plane slip and backthrust faults above blind thrust faults: Keys to wrinkle ridge structure. *J.Geophys.Res.*, 105(E5):12035-12052, 2000. 10145

**Sessions, Alex L., Linda J. Jahnke, Arndt Schimmelmann, and John M. Hayes.**

Hydrogen isotope fractionation in lipids of the methane-oxidizing bacterium *Methylococcus capsulatus*. *Geochim.Cosmochim.Acta*, 66(22):3955-3969, 2002.

**Shank, Timothy M., Daniel J. Fornari, Karen L. Von Damm, Marvin D. Lilley, Rachel M. Haymon, and Richard A. Lutz.**

Temporal and spatial patterns of biological community development at nascent deep-sea hydrothermal vents (9°50'N, East Pacific Rise). *Deep-Sea Res.II*, 45:465-515, 1998.

**Sims, K. W. W., S. J. Goldstein, J. Blichert-Toft, M. R. Perfit, P. Kelemen, D. J. Fornari, P. Michael, M. T. Murrell, S. R. Hart, D. J. DePaolo, L. Blaa M. Jull, and J. Bender.**

Chemical and isotopic constraints on the generation and transport of magma beneath the East Pacific Rise. *Geochim.Cosmochim.Acta*, 66(19): 3481-3504, 2002.

**Skovgaard, Anna Cecilie, Michael Storey, Joel Baker, Jerzy Blusztajn, and Stan R. Hart.**

Osmium - oxygen isotopic evidence for a recycled and strongly depleted component in the Iceland mantle plume. *Earth Planet.Sci.Lett.*, 194:259-275, 2001. 10557

**Smith, Deborah K., Laura S. L. Kong, Kevin T. M. Johnson, and Jennifer R. Reynolds.**

Volcanic morphology of the submarine Puna Ridge, Kilauea Volcano. *Hawaiian Volcanoes: Deep Underwater Perspectives*. Eiichi Takahashi, Peter Lipman, Michael Garcia, Jiro Naka, and Shigeo Aramaki, eds., Washington, DC: American Geophysical Union, :125-142, 2002. 10455

**Smith, Deborah K., Maya Tolstoy, Christopher G. Fox, DelWayne R. Bohnenstiehl, Haru Matsumoto, and Matthew J. Fowler.**

Hydroacoustic monitoring of seismicity at the slow-spreading Mid-Atlantic. *Geophys.Res.Lett.*, 29(11),1518,doi:10.1029/2001GL013912, 2002. 10536

**Smith, Matthew C., Michael R. Perfit, Daniel J. Fornari, Ian W. Ridley, Margo H. Edwards, Gregory J. Kurras, and Karen L. Von Damm.**

Magmatic processes and segmentation at a fast spreading mid-ocean ridge: Detailed investigation of an axial discontinuity on the East Pacific Rise crest at 9°37' N. *Geochem.Geophys.Geosys.*, 2:16 October 2001, Paper no.: 2000GC000134,<http://g-cubed.org/gc2001/2000GC000134/article2000GC000134.pdf>, 2001.

**Sobolev, Nikolay V., Gregory A. Snyder, Lawrence A. Taylor, Randall A. Keller, Emilya S. Yefimova, Vladimir N. Sobolev, and Nobumichi Shimizu.**

Extreme chemical diversity in the mantle during eclogitic diamond formation: evidence from 35 garnet and 5 pyroxene inclusions in a single diamond. *Int.Geol.Rev.*, 40(7):567-578, 1998.

**Sohn, R. A., and J. A. Hildebrand.**

Hydroacoustic earthquake detection in the Arctic Basin with the Spinnaker Array. *Bull.Seismol.Soc.Am.*, 91(3):572-579, 2001.

**Stein, C. A., and R. P. Von Herzen.**

Geophysical heat flow. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:1149-1157, 2001.

**Stephen, Ralph A.**

Fermat's principle for anisotropic elastic media. In: *Advances in Anisotropy: Selected Theory, Modeling, and Case Studies. Open File Publication No. 5. Proceedings of the Seventh International Workshop on Seismic Anisotropy*. Julie A. Hood, ed., Tulsa, OK: Society of Exploration Geophysicists, :255-270, 2001. 9699

**Stracke, Andreas, and Ken W. W. Sims .**

Assessing the presence of garnet-pyroxenite in the mantle sources of basalts through combined hafnium-neodymium-thorium isotope systematics. *Geochem.Geophys.Geosys.*, 1:13 December 1999, Paper no. 1999GC000013 <http://g-cubed.org/gc2000/1999GC000013/article1999GC000013.pdf>, 1999.

**Taylor, M. H., W. P. Dillon, and I. A. Pecher.**

Trapping and migration of methane associated with the gas hydrate stability zone at the Blake Ridge Diapir: New insights from seismic data. *Mar.Geol.*, 164:79-89, 2000.

**Teske, Andreas, Kai-Uwe Hinrichs, Virginia Edgcomb, Alvin de Vera Gomez, David Hysela, Sean P. Sylva, Mitchell L. Sogin, and Holger W. Jannasch.**

Microbial diversity of hydrothermal sediments in the Guaymas Basin: Evidence for anaerobic methanotrophic communities. *Appl.Environ.Microbiol.*, 68(4):1994-2007, 2002. 10624

**Tian, T., William S. D. Wilcock, Douglas R. Toomey, and Robert S. Detrick.**

Seismic heterogeneity in the upper crust near the 1991 eruption site on the East Pacific Rise, 9°50' N. *Geophys.Res.Lett.*, 27(16):2369-2372, 2000.

**Tivey, Maurice A., and H. Paul Johnson.**

Crustal magnetization reveals subsurface structure of Juan de Fuca Ridge hydrothermal vent fields. *Geology*, 30(11):979-982, 2002.

**Tripati, Aradhna, James Zachos, Louie Marinovich, Jr., and Karen Bice**

Late Paleocene Arctic coastal climate inferred from molluscan stable and radiogenic isotope ratios. *Palaeogeog.Palaeoclim.Palaeoecol.*, 170:101-113, 1999.

**Wade, Bridget S., Dick Kroon, and Richard D. Norris.**

Orbitally forced climate change in late mid-Eocene time at Blake Nose (Leg 171B): evidence from stable isotopes in foraminifera. In: *Western North Atlantic Palaeogene and Cretaceous Palaeoceanography*. D. Kroon, R. D. Norris, and A. Klaus, eds., London: The Geological Society, :273-291, 2001.

**Wallbridge, S., G. Voulgaris, B. N. Tomlinson, and M. B. Collins.**

Initial motion and pivoting characteristics of sand particles in uniform and heterogeneous beds: Experiments and modelling. *Sedimentology*, 46(1):17-32, 1999. 9646

**Wang, P., W. Prell, and P. Blum.**

Exploring the Asian monsoon through drilling in the South China Sea. *JOIDES Journal*, 25(2):8-13, 2000.

**Wang, P., W. Prell, and P. Blum.**

*Proc. ODP, Init. Repts.*, 184:1-103 and [http://www-odp.tamu.edu/publications/184\\_IR/184TOC.HTM](http://www-odp.tamu.edu/publications/184_IR/184TOC.HTM), 2000.

**Wolfe, C.J., and P. G. Silver.**

Seismic anisotropy of oceanic upper mantle: shear wave splitting methodologies and observations. *J.Geophys.Res.*, 103(B1):749-771, 1998.

**Wolfe, Cecily J.**

Mid-ocean ridge structures. In: *McGraw-Hill Yearbook of Science & Technology, 2000*. Compiled by staff of McGraw-Hill Encyclopedia of Science and Technology. New York: McGraw-Hill, :257-259, 1999.

**Wolfe, Cecily J., Frank L. Vernon, III, and Abdullah Al-Amri.**

Shear-wave splitting across western Saudi Arabia; the pattern of upper mantle anisotropy at a Proterozoic shield. *Geophys.Res.Lett.*, 26(6):779-782, 1999.

**Wooding, F. Beecher, K. R. Peal, and J. A. Collins.**

ORB Ocean-bottom seismic data logger. *Sea Technol.*, 39(8):85-89, 1998.

**Woodruff, Jonathan D., W. Rockwell Geyer, Christopher K. Sommerfield, and Neal W. Driscoll.**

Seasonal variation of sediment deposition in the Hudson River estuary. *Mar.Geol.*, 179(1-2):105-119, 2001. 10471

**Yoshinobu, Aaron S., and Greg Hirth.**

Microstructural and experimental constraints on the rheology of partially molten gabbro beneath oceanic spreading centers. *J.Struct.Geol.*, 24:1101-1107, 2002.

## **Marine Chemistry & Geochemistry**

**Alt, Jeffrey C., and Wolfgang Bach.**

Data report: Low-grade hydrothermal alteration of uplifted lower oceanic crust, hole 735B: Mineralogy and isotope geochemistry. *Proc.ODP, Sci.Results*, 176:1-24 and [http://www-odp.tamu.edu/publications/176\\_SR/VOLUME/CHAPTERS/SR176\\_01.pdf](http://www-odp.tamu.edu/publications/176_SR/VOLUME/CHAPTERS/SR176_01.pdf), 2001.

**Aluwihare, Lihini I., Daniel J. Repeta, and Robert F. Chen.**

Chemical composition and cycling of dissolved organic matter in the Mid-Atlantic Bight. *Deep-Sea Res. II*, 49:4421-4437, 2002.

**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 CO<sub>2</sub>: Implications for stratospheric transport. *J. Geophys. Res.*, 104(D21):26581-26595, 1999.

**Antia, Avan N., Wolfgang Koeve, Gerhard Fischer, Thomas Blanz, Detlef Schulz-Bull, Jan Scholten, Susanne Neuer, Klaus Kremling, Joachim Kuss, Rolf Peinert, Dirk Hebbeln, Ulrich Bathmann, Maureen Conte, Uwe Fehner, and B. Zeitzschel.**

Basin-wide particulate carbon flux in the Atlantic Ocean: Regional export patterns and potential for atmospheric CO<sub>2</sub> sequestration. *Global Biogeochem. Cycles*, 15(4):845-862, 2001.

**Bach, Wolfgang, Jeffrey C. Alt, Yaoling Niu, Susan E. Humphris, Jorg Erzinger, and Henry J. B. Dick.**

The geochemical consequences of late-stage low-grade alteration of lower ocean crust at the SW Indian Ridge: Results from ODP Hole 735B (Leg 176). *Geochim. Cosmochim. Acta*, 65(19):3267-3287, 2001. 10459

**Barbeau, K., E. B. Kujawinski, and J. W. Moffett.**

Remineralization and recycling of iron, thorium and organic carbon by heterotrophic marine protists in culture. *Aquat. Microb. Ecol.*, 24:69-81, 2001. 10415

**Barbeau, K., and J. W. Moffett.**

Dissolution of iron oxides by phagotrophic protists: using a novel method to quantify reaction rates. *Environ. Sci. Technol.*, 32(19):2969-2975, 1998.

**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.

**Berg, Gry Mine, Daniel J. Repeta, and Julie Laroche.**

Dissolved organic nitrogen hydrolysis rates in axenic cultures of *Aureococcus anophagefferens* (Pelagophyceae): Comparison with heterotrophic bacteria. *Appl. Environ. Microbiol.*, 68:401-404, 2002.

**Buesseler, K. O., L. Ball, J. Andrews, J. K. Cochran, D. J. Hirschberg, M. P. Bacon, A. Fler, and M. Brzezinski.**

Upper ocean export of particulate organic carbon and biogenic silica in the Southern Ocean along 170° W. *Deep-Sea Res. II*, 48:4275-4297, 2001. 10328

**Buesseler, K. O., and M. A. Charette.**

Comment on: How accurate are the <sup>234</sup>Th based particulate residence times in the ocean? by G. Kim, N. Hussain, and T. Church. *Geophys. Res. Lett.*, 27(13):1939-1940, 2000. 10164

**Charette, Matthew, A., and Edward R. Sholkovitz.**

Oxidative precipitation of groundwater-derived ferrous iron in the subterranean estuary of a coastal bay. *Geophys. Res. Lett.*, 29(10),1444,doi:10.1029/2001GL014512, 2002. 10636

**Choi, M. S., R. Francois, K. Sims, M. P. Bacon, S. Brown-Leger, A. P. Fler, L. Ball, D. Schneider, and S. Pichat.**

Rapid determination of <sup>230</sup>Th and <sup>231</sup>Pa in seawater by desolvated micro-nebulization Inductively Coupled Plasma magnetic sector mass spectrometry. *Mar. Chem.*, 76:99-112, 2001. 10448

**Conte, Maureen H., and John C. Weber.**

Plant biomarkers in aerosols record isotopic discrimination of terrestrial photosynthesis. *Nature*, 417:639-641, 2002.

**Currie, L. A., B. A. Benner, J. D. Kessler, D. B. Klinedinst, G. A. Klouda, J. V. Marolf, J. F. Slater, S. A. Wise, H. Cachier, R. Cary, J. C. Chow, J. Watson, E. R. M. Druffel, C. A. Masiello, T. I. Eglinton, A. Pearson, C. M. Reddy, O. Gustafsson, J. G. Quinn, et al.**

A critical evaluation of interlaboratory data on total, elemental, and isotopic carbon in the carbonaceous particle reference material, NIST SRM 1649a. *J.Res.Natl.Inst.Stand.Technol.*, 107:279-298, 2002.

**Dai, Minhan, James M. Kelley, and Ken O. Buesseler.**

Sources and migration of plutonium in groundwater at the Savannah River site. *Environ.Sci.Technol.*, 36:3690-3699, 2002. 10611

**Deuser, W.**

Temporal variability of particle flux. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 6:2925-2934, 2001. 10315

**Doney, S. C., and D. M. Glover.**

Ocean carbon system, modeling of. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 4:1929-1935, 2001.

**Drenzek, Nicholas J., Carly, H. Tarr, Timothy I. Eglinton, Linnea J. Heraty, Neil C. Sturchio, Vernon J. Shiner, and Christopher M. Reddy.**

Stable chlorine and carbon isotopic compositions of selected semi-volatile organochlorine compounds. *Org.Geochem.*, 33:437-444, 2002. 10612

**Edwards, K. 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.

**Eglinton, T. I., G. Eglinton, L. Dupont, E. R. Sholkovitz, D. Montlucon, and C. M. Reddy.**

Composition, age, and provenance of organic matter in NW African dust over the Atlantic Ocean. *Geochem.Geophys.Geosys.*, 3(8), 10.1029/2001GC000269, 2002. 10761

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

Incorporation of <sup>13</sup>C-labeled 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*, 54:39-54, 2000. 9420

**Eglinton, T. I., and A. Pearson.**

Single compound radiocarbon measurements. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 5:2786-2795, 2001.

**Friedrich, Michael, Bernd Kromer, Klaus F. Kaiser, Marco Spurk, Konrad A. Hughen, and Sigfus J. Johnsen.**

High-resolution climate signals in the Bolling-Allerod Interstadial (Greenland Interstadial 1) as reflected in European tree-ring chronologies compared to marine varves and ice-core records. *Quat.Sci.Rev.*, 20:1223-1232, 2001.

**Frysjinger, Glenn S., Richard B. Gaines, and Christopher M. Reddy.**

GC x GC-A new analytical tool for environmental forensics. *Environ.Forensics*, 3:27-34, 2002. 10585

**Glover, David M., Scott C. Doney, Arthur J. Mariano, Robert H. Evans, and Scott J. McCue.**

Mesoscale variability in time-series data: Satellite-based estimates for the U. S. JGOFS Bermuda Atlantic Time-series Study (BATS) site. *J.Geophys.Res.*, 107(C8),3092,doi:10.1029/2000JC000589, 2002. 10507

**Goldstone, J. V., and B. M. Voelker.**

Chemistry of superoxide radical in seawater: CDOM associated sink of superoxide in coastal waters. *Environ.Sci.Technol.*, 34(6):1043-1048, 2000. 10081

**Greaves, M. J., H. Elderfield, and E. R. Sholkovitz.**

Corrigendum to "Aeolian sources of rare earth elements to the Western Pacific Ocean" (Mar.Chem.68 (1999) 31-38). *Mar.Chem.*, 74:319, 2001.

**Gustafsson, Orjan, Thomas D. Bucheli, Zofia Kukulska, Mette Andersson, Claude Largeau, Jean-Noel Rouzaud, Christopher M. Reddy, and Timothy I Eglinton.**

Evaluation of a protocol for the quantification of black carbon in sediments. *Glob.Biogeochem.Cycles*, 15(4):881-890, 2001.

**Hanisco, T. F., E. J. Lanzendorf, P.O. Wennberg, K. K Perkins, R. M. Stimpfle, P. B. Voss, J. G. Anderson, R. C. Cohen, D. W. Fahey, R. S. Gao, E. J. Hints, R. J. Salawitch, J. J. Margitan, C. T. McElroy, and C. Midwinter.**

Sources, sinks, and the distribution of OH in the lower stratosphere. *J.Phys.Chem.A*, 105(9):1543-1553, 2001.

**Hannigan, Robyn E., and Edward R. Sholkovitz.**

The development of middle rare earth element enrichments in freshwaters: Weathering of phosphate minerals. *Chem.Geol.*, 175:495-508, 2001. 9961

**Hood, E. M., B. L. Howes, and W. J. Jenkins.**

Dissolved gas dynamics in perennially ice-covered Lake Fryxell, Antarctica. *Limnol.Oceanogr.*, 43(2):265-272, 1998. 9178

**Huang, Y. S., K. H. Freeman, T. I. Eglinton, and F. A. Street-Perrott.**

$\delta^{13}\text{C}$  analyses of individual lignin phenols in Quaternary lake sediments: A novel proxy for deciphering past terrestrial vegetation changes. *Geology*, 27(5):471-474, 1999.

**Hughen, Konrad A., John R. Southon, Scott J. Lehman, and Jonathan T. Overpeck.**

Synchronous radiocarbon and climate shifts during the last deglaciation. *Science*, 290(5498):1951-1954, 2000.

**Hurst, D. F., G. S. Dutton, P. A. Romashkin, P. R. Wamsley, F. L. Moore, J. W. Elkins, E. J. Hints, E. M. Weinstock, R. L. Herman, E. J. Moyer, D. C. Scott, R. D. May, and C. R. Webster.**

Closure of the total hydrogen budget of the Northern Extratropical Lower Stratosphere. *J.Geophys.Res.*, 104(D7):8191-8200, 1999.

**Jaffe, Lillie A., Bernhard Peucker-Ehrenbrink, and Steven T. Petsch.**

Mobility of rhenium, platinum group elements and organic carbon during black shale weathering. *Earth Planet.Sci.Lett.*, 198:339-353, 2002. 10539

**Kujawinski, E., John W. Farrington, and James W. Moffett.**

Evidence for grazing-mediated production of dissolved surface-active material by marine protists. *Mar.Chem.*, 77:133-142, 2002.

**Licciardi, Joseph M., Peter U. Clark, Edward J. Brook, Kenneth L. Pierce, Mark D. Kurz, David Elmore, and Pankaj Sharma.**

Cosmogenic  $^3\text{He}$  and  $^{10}\text{Be}$  chronologies of the late Pinedale northern Yellowstone ice cap, Montana, USA. *Geology*, 29(12):1095-1098, 2001. 10490

**McGuire, Molly M., Katrina J. Edwards, Jillian F. Banfield, and Robert J. Hamers.**

Kinetics, surface chemistry, and structural evolution of microbially mediated sulfide mineral dissolution. *Geochim. Cosmochim. Acta*, 65(8): 1243-1258, 2002.

**Michelsen, H. A., G. L. Manney, F. W. Irion, G. C. Toon, M. R. Gunson, C. P. Rinsland, R. Zander, E. Mahieu, M. J. Newchurch, P. N. Purcell, E. E. Remsberg, J. M. Russell, III, H. C. Pumphrey, J. W. Waters, R. M. Bevilacqua, K. K. Kelly, E. J. Hintsa, E. M. Weinstock, E. W. Chiou, et al.**

ATMOS version 3 water vapor measurements: Comparisons with observations from two ER-2 Lyman-alpha hygrometers, MkIV, HALOE, SAGE II, MAS, and MLS. *J. Geophys. Res.*, 107(D3),4027,doi:10.1029/2001JD000587, 2002.

**Moore, J., K. Hughen, G. Miller, and J. Overpeck.**

Little ice age recorded in summer temperature reconstruction from varved sediments of Donard Lake, Baffin Island, Canada. *J. Paleolimnol.*, 24(4):503-517, 2001.

**Moore, J. Keith, Scott C. Doney, David M. Glover, and Inez Y. Fung.**

Iron cycling and nutrient-limitation patterns in surface waters of the World Ocean. *Deep-Sea Res. II*, 49(1-3):463-507, 2002.

**Moore, J. Keith, Scott C. Doney, Joanie A. Kleypas, David M. Glover, and Inez Y. Fung.**

An intermediate complexity marine ecosystem model for the global domain. *Deep-Sea Res. II*, 49(1-3):403-462, 2002.

**Moreira, Manuel, and Mark D. Kurz.**

Subducted oceanic lithosphere and the origin of the "high u" basalt helium isotopic signature. *Earth Planet. Sci. Lett.*, 189: 49-57, 2001. 10317

**Naumann, Terry, Dennis Geist, and Mark Kurz.**

Petrology and geochemistry of volcano Cerro Azul: Petrologic diversity among the western Galapagos volcanoes. *J. Petrol.*, 43(5):859-883, 2002. 10556

**Nelson, D. M., R. F. Anderson, R. T. Barber, M. A. Brzezinski, K. O. Buesseler, Z. Chase, R. W. Collier, M.-L. Dickson, R. Francois, M. Hiscock, S. Honjo, J. Mara, W. R. Martin, R. N. Sambrotto, F. Sayles, and D. Sigmon.**

Vertical budgets for organic carbon and biogenic silica in the Pacific sector of the Southern Ocean, 1996-1998. *Deep-Sea Res. II*, 49:1645-1674, 2002.

**Niu, Yaolong, Trinity Gilmore, Suzie Mackie, Alan Greig, and Wolfgang Bach.**

Mineral chemistry, whole-rock compositions, and petrogenesis of Leg 176 gabbros: Data and discussion. *Proc. ODP, Sci. Results*, 176:1-60 and [http://www-odp.tamu.edu/publications/176\\_SR/VOLUME/CHAPTERS/SR176\\_08.PDF](http://www-odp.tamu.edu/publications/176_SR/VOLUME/CHAPTERS/SR176_08.PDF), 2002.

**Nodder, Scott D., Matthew A. Charette, Anya M. Waite, Tom W. Trull, Philip W. Boyd, John Zeldis, and Ken O. Buesseler.**

Particle transformations and export flux during an in situ iron-stimulated algal bloom in the Southern Ocean. *Geophys. Res. Lett.*, 28(12):2409-2412, 2001.

**Ocampo, Ruben, and Daniel J. Repeta.**

Isolation and structure determination of two novel C(13<sup>2</sup>)-OH bacteriopheophytin alpha allomers from a coastal salt pond sediment. *Org.Chem.*, 33:849-854, 2002.

**Palic, R., T. I. Eglinton, B. C. Benitez-Nelson, G. Eglinton, J. Velickovic, and G. Stojanovic.**

Alkanes from plants of the genus *Achillea*. *J.Serb.Chem.Soc.*, 64(7-8):443-446, 1999.

**Pantoja, S., and C. Lee.**

Molecular weight distribution of proteinaceous material in Long Island Sound sediments. *Limnol.Oceanogr.*, 44(5):1323-1330, 1999.

**Pantoja, Silvio, Daniel J. Repeta, Julian, P. Sachs, and Daniel M. Sigman.**

Stable isotope constraints on the nitrogen cycle of the Mediterranean Sea water column. *Deep-Sea Res.I*, 49:1609-1621, 2002.

**Pearson, A., T. I. Eglinton, and A. P. McNichol.**

An organic tracer for surface ocean radiocarbons. *Paleoceanography*, 15(5):541-550, 2000. 10246

**Pearson, A., A. P. McNichol, B. C. Benitez-Nelson, J. M. Hayes, and T. I. Eglinton.**

Origins of lipid biomarkers in Santa Monica Basin surface sediment: A case study using compound-specific  $\delta^{14}\text{C}$  analysis. *Geochim.Cosmochim.Acta*, 65(18):3123-3137, 2001.

**Peucker-Ehrenbrink, B.**

Comment on "Residence time of osmium in the oceans" by Rachel Oxburgh. *Geochem.Geophys.Geosyst.*, 3(10),1057,doi:10.1029/2001GC000297, 2002.

**Peucker-Ehrenbrink, Bernhard, and Bor-ming Jahn.**

Rhenium-osmium isotope systematics and platinum group element concentrations: Loess and the upper continental crust. *Geochem.Geophys.Geosyst.*, 2, Paper No. 2001GC000172, 2001. 10495

**Peucker-Ehrenbrink, Bernhard, and Mark W. Miller.**

Quantitative bedrock geology of the conterminous United States of America. *Geochem.Geophys.Geosys.*, 3(10),8000,doi:10.1029/2002GC000366, 2002. 10749

**Pfister, Leonhard, Henry B. Selkirk, Eric J. Jensen, Mark R. Schoeberl, Owen B. Toon, Edward V. Browell, William B. Grant, Bruce Gary, Michael J. Mahoney, Thaopaul V. Bui, and Eric Hinsta.**

Aircraft observations of thin cirrus clouds near the tropical tropopause. *J.Geophys.Res.*, 106(D9):9765-9786, 2001.

**Pike, S. M., and S. B. Moran.**

Trace elements in aerosol and precipitation at New Castle, NH, USA. *Atmos.Environ.*, 35:3361-3366, 2001.

**Reddy, C. M., and J. G. Quinn.**

The North Cape oil spill: hydrocarbons in Rhode Island coastal waters and Point Judith pond. *Mar.Environ.Res.*, 52:445-461, 2001.

**Reddy, C. M., J. G. Quinn, and J. King.**

Free and bound benzotriazoles in marine and freshwater sediments. *Environ.Sci.Technol.*, 34:973-979, 2000.

**Reddy, C. M., L. Xu, N. J. Drenzek, N. C. Sturchio, L. J. Heraty, C. Kimblin, and A. Butler.**

A chlorine isotope effect for enzyme-catalyzed chlorination. *J.Am.Chem.Soc.*, 124:14526-14527, 2002. 10673



**Reddy, Christopher M., Nicholas J. Drenzek, Timothy I. Eglinton, Linnea J. Heraty, Neil C. Sturchio, and Vernon J. Shiner.**

Stable chlorine intramolecular kinetic isotope effects from the abiotic dehydrochlorination of DDT. *Environ.Sci.Pollut.Res.*, 9(3):183-186, 2002. 10432

**Reddy, Christopher M., Timothy I. Eglinton, Jan P. Boon, and D. John Faulkner.**

Radiocarbon content of synthetic and natural semi-volatile halogenated organic compounds. *Environ.Pollu.*, 120:163-168, 2002. 10626

**Reddy, Christopher M., Timothy I. Eglinton, Aubrey Hounshell, Helen K. White, Li Xu, Richard B. Gaines, and Glenn S. Frysjinger.**

The West Falmouth oil spill after thirty years: The persistence of petroleum hydrocarbons in marsh sediments. *Environ.Sci.Technol.*, 36:4754-4760, 2002. 10811

**Repeta, Daniel J., Tracy M. Quan, Lihini I. Aluwihare, and AmyMarie Accardi.**

Chemical characterization of high molecular weight dissolved organic matter in fresh and marine waters. *Geochim.Cosmochim.Acta*, 66:955-962, 2002.

**Rutgers van der Loeff, Michiel, Ken Buesseler, Uli Bathmann, Inga Hense, and John Andrews.**

Comparison of carbon and opal export rates between summer and spring bloom periods in the region of the Antarctic Polar Front, SE Atlantic. *Deep-Sea Res.II*, 49:3849-3869, 2002. 10730

**Ruttenberg, K. C.**

Phosphorus cycle. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 4:2149-2162, 2001.

**Saito, Mak A., and James W. Moffett.**

Complexation of cobalt by natural organic ligands in the Sargasso Sea as determined by a new high-sensitivity electrochemical cobalt speciation method suitable for open ocean work. *Mar.Chem.*, 75:49-68, 2001. 10435

**Saito, Mak A., and James W. Moffett.**

Temporal and spatial variability of cobalt in the Atlantic Ocean. *Geochim.Cosmochim.Acta*, 66(11):1943-1953, 2002. 10623B

**Sassen, R., S. L. Losh, L. Cathles, III, H. H. Roberts, J. K. Whelan, A. V. Milkov, S. T Sweet, and D. A. DeFreitas.**

Massive vein-filling gas hydrate: Relation to ongoing gas migration from the deep subsurface in the Gulf of Mexico. *Mar.Pet.Geol.*, 18:551-560, 2001.

**Sayles, F. L., W. R. Martin, Zanna Chase, and R. F. Anderson.**

Benthic remineralization and burial of biogenic SiO<sub>2</sub>, CaCO<sub>3</sub>, organic carbon, and detrital material in the Southern Ocean along a transect at 170° west. *Deep-Sea Res.II*, 48:4323-4383, 2001. 10429

**Schmitz, Birger, Mario Tassinari and Bernhard Peucker-Ehrenbrink.**

A rain of ordinary chondritic meteorites in the early Ordovician. *Earth Planet.Sci.Lett.*, 194:1-15, 2001.

**Seewald, Jeffrey S., Kenneth W. Doherty, Terence R. Hammar, and Stephen P. Liberatore.**

A new gas-tight isobaric sampler for hydrothermal fluids. *Deep-Sea Res.I*, 49:189-196, 2001. 10510

**Smith, J. B., E. J. Hints, N. T. Allen, R. M. Stimpfle, and J. G. Anderson.**

Mechanisms for midlatitude ozone loss: Heterogeneous chemistry in the lowermost stratosphere? *J.Geophys.Res.*, 106(D1):1297-1309, 2001.

**Tamburini, Federica, Sylvain Huon, Philipp Steinmann, Francis E. Grousset, Thierry Adatte, and Karl B. Follmi.**

Dysaerobic conditions during Heinrich events 4 and 5L Evidence from phosphorus distribution in a North Atlantic deep-sea core. *Geochim. Cosmochim. Acta*, 66(23):4069-4083, 2002.

**Testa, Jeremy, Matthew A. Charette, Edward R. Sholkovitz, Matt C. Allen, Adam Rago, and Craig W. Herbold**

Dissolved iron cycling in the subterranean estuary of a coastal bay: Waquoit Bay, Massachusetts. *Biol. Bull.*, 203:255-256, 2002.

**Tivey, M.K., K. Bemis, A. M. Bradley, J. Butterfield, J. R. Delaney, K. Ding, R. P. Dziak, C. Fisher, C. G. Fox, S. Hautala, D. Jackson, H. W. Jannasch, H. P. Johnson, S. K. Juniper, D. Kadko, D. S. Kelley, M. Lilley, R. E. McDuff, P. Rona, and J. Sarrazin.**

The RIDGE endeavour segment seafloor observatory: Recent successes and an overview of coordinated experiments for Y2K. *RIDGE Events*, 11(1):10-17, 2001.

**Verity, P. G., J. E. Bauer, C. N. Flagg, D. J. DeMaster, and D. J. Repeta.**

The Ocean Margins Program: An interdisciplinary study of carbon sources, transformations, and sinks in a temperate continental margin system. *Deep-Sea Res. II*, 49:4273-4295, 2002.

**Vlahos, P., R. F. Chen, and D. J. Repeta.**

Dissolved organic carbon in the Mid Atlantic Bight. *Deep-Sea Res. II*, 49:4369-4385, 2002.

**Voelker, Bettina M., David L. Sedlak, and Oliver C. Zafiriou.**

Chemistry of superoxide radical (O<sub>2</sub><sup>-</sup>) in seawater: Reactions with organic Cu complexes. *Environ. Sci. Tech.*, 34(6):1036-1042, 2000. 10082

**Walter, H.-J., M. M. Rutgers van der Loeff, and R. Francois.**

Reliability of the <sup>231</sup>Pa/<sup>230</sup>Th activity ratio as a tracer for bioproductivity of the ocean. In: *Proxies in Paleoceanography*. Gerhard Fischer, Gerold Wefer, eds., Berlin: Springer, :393-408, 1999.

**Wang, Xu-Chen, Robert F. Chen, Jean Whelen, and Lorraine Eglinton.**

Contribution of "old" carbon from natural marine hydrocarbon seeps to sedimentary and dissolved organic carbon pools in the Gulf of Mexico. *Geophys. Res. Lett.*, 28(17):3313-3316, 2001.

**Weinstock, E. M., E. J. Hints, Kirk-Davidoff, J. G. Anderson, A. E. Andrews, R. L. Herman, C. R. Webster, M. Loewenstein, J. R. Podolske, and T. P. Bui.**

Constraints on the seasonal cycle of stratospheric water vapor using in situ measurements from the ER-2 and a CO photochemical clock. *J. Geophys. Res.*, 106(D19):22707-22724, 2001.

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

Validated methods for sampling and headspace analysis of carbon monoxide in seawater. *Mar. Chem.*, 77(2-3):93-108, 2002. 10501

## **Marine Policy Center**

**Cowan, Diane F., Andrew R. Solow, and Andrew Beet.**

Patterns in abundance and growth of juvenile lobster, *Homarus americanus*. *Mar. Freshwater Res.*, 52(28):1095-1102, 2001.

**Goudey, C.A., G. Loverich, H. Kite-Powell, and B. A. Costa-Pierce.**

Mitigating the environmental effects of mariculture through single-point moorings (SPMs) and drifting cages. *ICES J.Mar.Sci.*, 58(2):497-503, 2001.

**Hoagland, P., D. M. Anderson, Y. Kaoru, and A. W. White.**

The economic effects of harmful algal blooms in the United States: estimates and accounting issues. *Estuaries*, 25(4B):819-837, 2002. 10637

**Hoagland, P., J. Jacoby, and M. E. Schumacher.**

Law of the sea. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 3:1481-1492, 2001. 10363

**Hoagland, P., and D. Jin.**

A decision framework for the economically efficient control of harmful algal blooms. *Proc. 2nd Int'l Conf. On Harmful Algae Management and Mitigation*, <http://vm.cfsan.fda.gov/~frf/ha01hoag.html>, 2001.

**Hoagland, P., and H. L. Kite-Powell.**

The economics of blue mussel growout: Aquaculture at an offshore site. *J.Shellfish Res.*, 19(1):573-574, 2000.

**Hoagland, P., U. R. Sumaila, and S. Farrow.**

Marine protected areas. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 3:1654-1659, 2001. 10364

**Hoagland, P., and P. C. Ticco.**

Marine policy overview. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 3:1646-1654, 2001. 10365

**Jarvinen, Denise.**

Federal and state support for aquaculture development in the United States. *Aquacult.Econ.Manage.*, 4(3-4):209-225, 2000. 9527

**Jin, D., H. Kite-Powell, E. Thunberg, A. Solow, and W. Talley.**

A model of fishing vessel accident probability. *J.Safety Res.*, 33(4):497-510, 2002. 10738

**Jin, Di, Hauke Kite-Powell, and Wayne Talley.**

The safety of commercial fishing: Determinants of vessel total losses and injuries. *J.Saf.Res.*, 32(2):209-228, 2001. 10349

**Kildow, J. T., H. Kite-Powell, and C. S. Colgan.**

Estimating the economic value of the ocean. *Sea Technol.*, 41(1):65-67, 2000.

**Kite-Powell, H. L.**

Shipping and ports. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 5:2768-2776, 2001.

**Kite-Powell, H. L., and P. Hoagland.**

The economics of New England finfish growout: Aquaculture at an offshore site. *J.Shellfish Res.*, 20(1):521, 2001.

**Mulligan, A. E., and D. P. Ahlfeld**

Optimal plume capture design in unconfined aquifers. In: *Physicochemical Groundwater Remediation*. James A. Smith and Susan E. Burns, eds., New York: Kluwer Academic/Plenum Publishers, :23-44, 2001.

**Sayigh, Laela S., Peter L. Tyack, Randall S. Wells, Andrew R. Solow, Michael D. Scott, and A. B. Irvine.**  
Individual recognition in wild bottlenose dolphins: A field test using playback experiments. *Anim.Behav.*, 57(1):41-50, 1999. 9238

**Solow, A. R.**

Fisheries and Climate. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:1000-1002, 2001.

**Solow, Andrew, Cabell Dais, and Qiao Hu.**

Estimating the taxonomic composition of a sample when individuals are classified with error. *Mar.Ecol.Prog.Ser.*, 216:309-311, 2001.

**Solow, Andrew R.**

A comment on testing for a decline in Upper Cretaceous dinosaur diversity. *Biometrics*, 56(4):1272-1273, 2000. 10300

**Solow, Andrew R.**

A comment on two models of the remigration interval in marine turtles. *J.Theor.Biol.*, 209(3):371-372, 2001. 10345

**Solow, Andrew R.**

Testing for a temperature effect on an early catch record. *Clim.Change*, 49:359-366, 2001. 9989

**Solow, Andrew R.**

Estimating event rates in the presence of dating error with an application to lunar impacts. *Earth and Planetary Science Letters*, 199(1-2):1-6, 2002.

**Solow, Andrew R.**

Fisheries recruitment and the North Atlantic oscillation. *Fish.Res.*, 54(2):295-297, 2002. 10314

**Solow, Andrew R., Andrew Beet, and Diane Cowan.**

Optimal seasonal sampling for estimating an interannual trend. *Isr.J.Zool.*, 46:351-354, 2000. 10299

**Solow, Andrew R., Karen A. Bjorndal, and Alan B. Bolten.**

Annual variation in nesting numbers of marine turtles: The effect of sea surface temperature on re-migration intervals. *Ecology Lett.*, 5:742-747, 2002. 10707

**Solow, Andrew R., and Christopher J. Costello.**

A test for declining diversity. *Ecology*, 82(8):2370-2372, 2001. 10139

**Solow, Andrew R., Christopher Costello, and Andrew Beet.**

Notes and comments: On an early result on stability and complexity. *Am.Nat.*, 154(5):587-588, 1999.

**Solow, Andrew, Cabell Davis, and Qiao Hu.**

Estimating the composition of a sample when individuals are classified with error. *Mar.Ecol.Prog.Ser.*, 216:309-311, 2001. 10298

**Solow, Andrew R., and Laura J. Moore.**

Testing for trend in North Atlantic hurricane activity, 1900-1998. *J.Clim.*, 15:3111-3114, 2002. 10413

**Steele, J. H.**

Marine mesocosms. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 3:1644-1647, 2001.

**Steele, J. H.**

Network analysis of food webs. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 4:1870-1875, 2001.

**Steele, J. H., and C. W. Clark.**

Relations between individual and population based plankton models. *J. Plankton Res.*, 20:1403-1415, 1998.

## **Physical Oceanography**

**Anderson, S. P., E. F. Bradley, S. K. Esbensen, R. B. Lukas, G. A. Meehl, L. M. Rothstein, S. A. Rutledge, and J. A. Young.**

The "gaps group" report: the challenges that remain to complete the goals of COARE. In: *COARE-98, Proceedings of a conference on the TOGA coupled ocean-atmospheric response experiment, Boulder, CO, 7-14 July 1998*. Geneva, Switzerland: World Meteorological Organization, WCRP-107, WMO/TD-No.40, :142-147, 1999.

**Aoyama, M., T. M. Joyce, T. Kawano, and Y. Takatsuki.**

Standard seawater comparison up to P129. *Deep-Sea Res. I*, 49:1103-1114, 2002.

**Atherton, Juli.**

Forced Rossby waves in a basin with a meridional barrier and bottom friction. *Nuovo Cimento Soc. Ital. Fis. C-Geophys. Space Phys.*, 23(5):525-546, 2000. 10095

**Austin, Jay A., and Steven J. Lentz.**

Two-dimensional wind-driven downwelling on a stratified shelf. *J. Phys. Oceanogr.*, 32:2171-2193, 2002. 10406

**Bower, A. S., B. Le Cann, T. Rassby, W. Zenk, J. Gould, K. Speer, P. L. Richardson, M. O. Prater, and H. M. Zhang.**

Directly-measured mid-depth circulation in the northeastern North Atlantic Ocean. *Nature*, 419:603-607, 2002.

**Bower, Amy S., and Heather D. Hunt.**

Kinematics and dynamics of the Deep Western Boundary Current where it crosses under the Gulf Stream. *International WOCE Newsletter*, 34:3-5, 1999.

**Cenedese, C., and P. F. Linden.**

Stability of a buoyancy-driven coastal current at the shelf break. *J. Fluid Mech.*, 452:97-121, 2002. 10014

**Cenedese, Claudia.**

Laboratory experiments on mesoscale vortices colliding with a seamount. *J. Geophys. Res.*, 107(C6),3053,doi:10.1029/2000JC000599, 2002. 10238

**Chapman, D. C., and G. S. Giese.**

Seiches. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 5:2724-2731, 2001.

**Chapman, David C.**

Sensitivity of a model shelfbreak front to the parameterization of vertical mixing. *J. Phys. Oceanogr.*, :3291-3298, 2002. 10591

**Chereskin, T. K., and J. F. Price.**

Ekman transport and pumping. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:809-814, 2001.

**Colosi, John A., Robert C. Beardsley, James F. Lynch, Glen Gawarkiewicz, Ching-Sang Chiu, and Alberto Scotti.**

Observations of nonlinear internal waves on the outer New England continental shelf during the summer Shelfbreak Primer study. *J.Geophys.Res.*, 106(C5):9587-9601, 2001. 9906

**Curry, Ruth G., and Michael S. McCartney.**

Ocean gyre circulation changes associated with the North Atlantic Oscillation. *J.Phys.Oceanogr.*, 31(12):3374-3400, 2001. 10260

**Deese, Heather E., Larry J. Pratt, and Karl R. Helfrich.**

A laboratory model of exchange and mixing between western boundary layers and subbasin recirculation gyres. *J.Phys.Oceanogr.*, 32:1870-1889, 2002. 10450

**Dickson, B., J. Hurrell, N. Bindoff, A. Wong, B. Arbic, B. Owens, S. Imawaki, and I. Yashayaev.**

The world during WOCE. In: *Ocean Circulation and Climate*. G. Sideler, J. Church, and W. J. Gould, eds., International Geophysics Series, Academic Press, :557-583, 2001.

**DiMarco, S. F., P. Chapman, W. D. Nowlin, Jr., P. Hacker, K. Donohue, M. Luther, G. C. Johnson, and J. Toole.**

Volume transport and property distributions of the Mozambique Channel. *Deep-Sea Res.II*, 49:1481-1511, 2002.

**D'Sa, E. J., S. E. Lohrenz, J. H. Churchill, V. L. Asper, J. L. Largier, and A. J. Williams, III.**

Chloropigment distribution and transport on the inner shelf off Duck, North Carolina. *J.Geophys.Res.*, 106(C6):11581-11596, 2001.

**Fairall, C. W., P. Hacker, E. F. Bradley, S. P. Anderson, et al.**

The legacy of COARE for technology and ocean-atmosphere observing capability. In: *COARE-98, Proceedings of a conference on the TOGA coupled ocean-atmospheric response experiment, Boulder, CO, 7-14 July 1998*. Geneva, Switzerland: World Meteorological Organization, WCRP-107, WMO/TD-No.40, :116-138, 1999.

**Fischer, Albert S., Robert A. Weller, Daniel L. Rudnick, Charles E. Ericksen, Craig M. Lee, Kenneth H. Brink, Chad A. Fox, and Robert R. Leben.**

Mesoscale eddies, coastal upwelling, and the upper ocean heat budget in the Arabian Sea. *Deep-Sea Res.II*, 49:2231-2264, 2002. 10388

**Fisher, K. W., S. Legg, W. H. Munk, R. M. Schuchman, R. W. Garwood, and J. P. Palshook.**

Modeled radar surface signature of deep ocean convection. *IEEE Trans.Geosci.Remote Sens.*, 37:2050-2067, 1999.

**Frankignoul, Claude, Terrence M. Joyce, and Shenfu Dong.**

Gulf Stream variability and ocean-atmosphere interactions. *J.Phys.Oceanogr.*, 31:3516-3529, 2001. 10428

**Fratantoni, David M., and Deborah A. Glickson.**

North Brazil current ring generation and evolution observed with SeaWiFs. *J.Phys.Oceanogr.*, 32(3):1058-1074, 2002. 10462

**Garland, Elizabeth D., Cheryl Ann Zimmer, and Steven J. Lentz.**

Vertical distributions in inner-shelf waters: The roles of wind-driven cross-shelf currents and diel vertical migrations. *Limnol.Oceanogr.*, 47(3):803-817, 2002. 10042

**Gawarkiewicz, Glen, Thomas Weingartner, and David C. Chapman.**

Sea-ice processes and water mass modification and transport over arctic shelves. In: *The Sea*. K. H. Brink and Allan R. Robinson, eds., New York: John Wiley & Sons, Inc., 10:171-190, 1998. 9136

**Gobat, Jason I., Mark A. Grosenbaugh, and Michael S. Triantafyllou.**

Generalized-a time integration solutions for hanging chain dynamics. *J.Eng.Mech.*, 128(6):677-687, 2002.

**Gordon, Arnold L., Claudia F. Giulivi, Craig M. Lee, Heather Hunt Furey, Amy Bower, and Lynne Talley.**

Japan/East Sea intrathermocline eddies. *J.Phys.Oceanogr.*, 32:1960-1974, 2002.

**Grosenbaugh, Mark, Steven Anderson, Richard Trask, Jason Gobat, Walter Paul, Bradford Butman, and Robert Weller.**

Design and performance of a horizontal mooring for upper-ocean research. *J.Atmos.Ocean.Technol.*, 19:1376-1389, 2002.

**Helfrich, K. R.**

Dispersion from hydrothermal vents. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:733-741, 2001.

**Hernandez-Guerra, Alonso, and Terrence M. Joyce.**

Water masses and circulation in the surface layers of the Caribbean at 66° W. *Geophys.Res.Lett.*, 27:3497-3500, 2000. 10169

**Hogg, N., D. Frye, and C. Wunsch.**

New generation mooring system allows longer deployment. *Eos*, 83(34):370-371, 2002.

**Hogg, Nelson G.**

Quantification of the deep circulation. In: *Ocean Circulation and Climate*. G. Sideler, J. Church, and W. J. Gould, eds., International Geophysics Series, Academic Press, :259-270, 2001. 9997

**Huang, Rui Xin, and Xiangze Jin.**

Deep circulation in the South Atlantic induced by bottom-intensified mixing over the mid-ocean ridge. *J.Phys.Oceanogr.*, 32:1150-1164, 2002. 10476

**Huang, Rui Xin, and Xiangze Jin.**

Sea surface elevation and bottom pressure anomalies due to thermohaline forcing, Part I: Isolated perturbations. *J.Phys.Oceanogr.*, 32:2131-2150, 2002. 10360

**Huang, Rui Xin and Qi Wang.**

Interior Communication from the Subtropical to the Tropical Oceans. *J.Phys.Oceanogr.*, 31:3538-3550, 2001. 10262

**Jayne, Steven R., and Louis C. St. Laurent.**

Parameterizing tidal dissipation over rough topography. *Geophys.Res.Lett.*, 28(5):811-814, 2001.

**Johns, William E., Tamara L. Townsend, David M. Fratantoni, and W. Douglas Wilson.**

On the Atlantic inflow to the Caribbean Sea. *Deep-Sea Res.*, 49:211-243, 2002. 10370

**Joyce, Terrence M.**

One hundred plus years of wintertime climate variability in the Eastern US. *J.Clim.*, 15:1076-1086, 2002. 10451

**Kozubskaya, G. I., A. Konyaev, A. J. Plueddemann, and K. D. Sabinin.**

Internal waves at the slope of the Bear Island Trough from the Barents Sea Polar Front Experiment (BSPF-92). *Oceanology*, 39(2):147-154, 1999.

**LaCasce, J., and J. Pedlosky.**

Baroclinic Rossby waves in irregular basins. *J.Phys.Oceanogr.*, 32:2828-2847, 2002. 10568

**LaCasce, J. H., and A. Bower.**

Relative dispersion in the subsurface North Atlantic. *J.Mar.Res.*, 58(6):863-894, 2000. 10196

**Lavender, Kara L., Russ E. Davis, and W. Brechner Owens.**

Mid-depth recirculation observed in the interior Labrador and Irminger seas by direct velocity measurements. *Nature*, 407:66-69, 2000. 10202

**Lavender, Kara L., Russ E. Davis, and W. Brechner Owens.**

Observations of open-ocean deep convection in the Labrador Sea from subsurface floats. *J.Phys.Oceanogr.*, 32(2):511-526, 2002. 10318

**Lazier, John R. N., Robert S. Pickart, and Peter B. Rhines.**

Deep convection. In: *Ocean Circulation and Climate*. G. Siedler, J. Church, and W. J. Gould, eds., International Geophysics Series, Academic Press, :387-400, 2001.

**Legg, Sonya, and James C. McWilliams.**

Sampling characteristics from isobaric floats in a convective eddy field. *J.Phys.Oceanogr.*, 32:527-544, 2002. 10248

**Lentz, Steven J., and Karl R. Helfrich.**

Buoyant gravity currents along a sloping bottom in a rotating fluid. *J.Fluid Mech.*, 464:251-278, 2002. 10575

**Linder, Christopher A., and Glen Gawarkiewicz.**

A climatology of the shelfbreak front in the Middle Atlantic bight. *J.Geophys.Res.*, 103(C9):18405-18423, 1998. 9398

**Lozier, M. Susan, and Glen Gawarkiewicz.**

Cross-frontal exchange in the Middle Atlantic Bight as evidenced by surface drifters. *J.Phys.Oceanogr.*, 31:2498-2510, 2001.

**Macdonald, A. M., M. O'Neil Baringer, and A. Ganachaud.**

Heat transport and climate. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:1195-1206, 2001.

**Macdonald, A. M., T. Suga, and R. G. Curry.**

An isopycnally averaged North Pacific climatology. *J.Atmos.Oceanic Technol.*, 18:394-420, 2001.

**Mauritzen, C., K. L. Polzin, M. S. McCartney, R. C. Millard, and D. E. West-Mack.**

Evidence in hydrography and density finestructure for enhanced vertical mixing over the Mid-Atlantic Ridge in the western Atlantic. *J.Geophys.Res.*, 107(C10),3147,doi:10.1029/2001JC001114, 2002. 10574

**McCreary, Julian P., Jr., Kevin E. Kohler, Raleigh R. Hood, Sharon Smith, John Kindle, Albert S. Fischer, and Robert A. Weller.**

Influences of diurnal and intraseasonal forcing on mixed-layer and biological variability in the central Arabian Sea. *J.Geophys.Res.*, 106(C4):7139-7155, 2001. 10181

**Medovaya, M., D. E. Waliser, R. A. Weller, and M. J. McPhaden.**

Assessing ocean buoy shortwave observations using clear-sky model calculations. *J.Geophys.Res.*, 107(C2), 3014,doi:10.1029/2000JC000558, 2002.



**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.*, 32(1):80–102, 2002. 10422

**Pedlosky, Joseph.**

The destabilization of Rossby normal modes by meridional baroclinic shear. *J.Phys.Oceanogr.*, 32:2418-2423, 2002. 10547

**Phillips, Helen E., and Stephen R. Rintoul.**

A mean synoptic view of the subantarctic front south of Australia. *J.Phys.Oceanogr.*, 32:1536-1553, 2002.

**Pickart, Roberts S., Daniel J. Torres, and R. Allyn Clark.**

Hydrography of the Labrador Sea during active convection. *J.Phys.Oceanogr.*, 32:428-457, 2002. 10249

**Plueddemann, A. J.**

Review of "Data analysis methods in physical oceanography" by W. J. Emery and R. E. Thompson. *Oceanography*, 12(3):53-54, 1999.

**Plueddemann, A. J.**

Profiling current meters. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 4:2296-2300, 2001.

**Polyakov, I. V., A. Y. Proshutinsky, and M. A. Johnson.**

Seasonal cycles in two regimes of Arctic climate. *J.Geophys.Res.*, 104(C11):25,761-25,788, 1999.

**Polzin, Kurt, Eric Kunze, James Hummon, and Eric Firing.**

The finescale response of lowered ADCP velocity profiles. *J.Atmos.Ocean.Technol.*, 19(2):205-224, 2002.

**Price, James F.**

Subduction. In: *Ocean Circulation and Climate*. G. Sideler, J. Church, and W. J. Gould, eds., International Geophysics Series, Academic Press, :357-372, 2001.

**Proshutinsky, Andrey, Mark Johnson, and Tatiana Proshutinsky.**

Understanding climatic controls on sea-ice transport pathways in the Arctic Ocean. *Ann.Glaciol.*, 33:551-554, 2001.

**Proshutinsky, Andrey, Michael Steele, Jinlun Zhang, Gregory Holloway, Nadja Steiner, Sirpa Hakkinen, David Holland, Ruediger Gerdes, Cornelia Koeberle, Michael Karcher, Mark Johnson, Wieslaw Maslowski, Waldemar Walczowski, William Hibler, and Jia Wang.**

Multinational effort studies differences among Arctic Ocean models. *Eos*, 82(51):637-644, 2001.

**Richardson, P. L.**

Drifters and floats. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:767-774, 2001.

**Richardson, P. L.**

Florida Current, Gulf Stream and dLabrador Current. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:1054-1064, 2001.

**Richardson, P. L., A. S. Bower, and W. Zenk.**

Summary of meddes tracked by floats. *International WOCE Newsletter*, 34:18-20, 1999.

**Richardson, P. L., and D. M. Fratantoni.**

Atlantic deep equatorial jets and the Equatorial CFC plume. *International WOCE Newsletter*, 34:5-6, 1999.

**Rochford, Peter A., John C. Kindle, Patrick C. Gallachear, and Robert A. Weller.**

Sensitivity of the Arabian Sea mixed layer to 1994-95 operational wind products. *J.Geophys.Res.*, 105(C6):14,141-14,162, 2000. 9923

**Roemmich, Dean, John Gilson, Bruce Cornuelle, and Robert Weller.**

The mean and time-varying meridional transport of heat at the tropical/subtropical boundary of the North Pacific Ocean. *J.Geophys.Res.*, 106(C5):8957-8970, 2001. 10408

**Schmitt, R. W.**

Double-diffusive convection. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:757-766, 2001.

**Schmitt, R. W., and J. R. Ledwell.**

Dispersion and diffusion in the deep ocean. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:726-733, 2001.

**Sheremet, Vitalii A.**

Inertial gyre driven by a zonal jet emerging from the western boundary. *J.Phys.Oceanogr.*, 32:2361-2378, 2002. 10373

**Sherman, Jeff, Russ E. Davis, W. B. Owens, and J. Valdes.**

The autonomous underwater glider 'spray'. *IEEE J.Oceanic Eng.*, 26(4):437-446, 2001. 10214

**Spall, M. A.**

Forward problem in numerical models. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 2:1088-1095, 2001.

**Spall, Michael.**

Wind- and buoyancy-forced upper ocean circulation in two-strait marginal seas with application to the Japan/East Sea. *J.Geophys.Res.*, 107(C1),doi:10.1029/2001JC000966, 2002. 10449

**St. Laurent, Louis C., John M. Toole, and Raymond W. Schmitt.**

Buoyancy forcing by turbulence above rough topography in the abyssal Brazil Basin. *J.Phys.Oceanogr.*, 31:3476-3495, 2001. 10478

**Stern, Melvin E., and Karl R. Helfrich.**

Propagation of a finite amplitude potential vorticity front along the wall of a stratified fluid. *J.Fluid Mech.*, 468:179-204, 2002. 10584

**Straneo, F., M. Kawase, and S. Riser.**

Idealized models of slantwise convection in a baroclinic flow. *J.Phys.Oceanogr.*, 32:558-572, 2002.

**Straneo, Fiammetta, Mistuhiro Kawase, and Robert S. Pickart.**

Effects of wind on convection in strongly and weakly baroclinic flows with application to the Labrador Sea. *J.Phys.Oceanogr.*, 32:2603-2618, 2002. 10609

**Toole, John M., and Trevor J. McDougall.**

Mixing and stirring in the ocean interior. In: *Ocean Circulation and Climate*. G. Sideler, J. Church, and W. J. Gould, eds., International Geophysics Series, Academic Press, :337-356, 2001.

**Trask, R. P., and R. A. Weller.**

Moorings. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 3:1850-1860, 2001.

**Walker, Alison, and Joseph Pedlosky.**

On the instability of meridional baroclinic currents. *J.Phys.Oceanogr.*, 32:1075-1093, 2002. 10472

**Warren, Bruce A., Thomas Whitworth, III, and Joseph H. LaCasce.**

Forced resonant undulation in the deep Mascarene Basin. *Deep-Sea Res.II*, 49:1513-1526, 2002. 10237

**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.II.*, 49:2195-2230, 2002. 10421

**Wells, A. R., and K. R. Helfrich.**

Circulation around a thin zonal island. *J.Fluid Mech.*, 437:301-323, 2001. 10112

**Whitehead, J. A.**

Rotating gravity currents. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 4:2444-2449, 2001.

**Whitworth, T., B. A. Warren, W. D. Nowlin, Jr., S. B. Rutz, R. D. Pillsbury, and M. I. Moore.**

On the deep western-boundary current in the Southwest Pacific Basin. *Prog.Oceanogr.*, 43:1-54, 1999. 9397

**Winsor, Peter, and David C. Chapman.**

Distribution and interannual variability of dense water production from coastal polynas on the Chukchi Shelf. *J.Geophys.Res.*, 107(C7),3079,doi:10.1029/2001JC000984, 2002. 10592

**Yu, Lisan, and Michele M. Rienecker.**

Indian Ocean warming of 1997-1998. *J.Geophys.Res.*, 105(C7):16,923-16,939, 2000. 10135

**Yuan, G. -C., L. J. Pratt, and C. K. R. T. Jones.**

Barrier destruction and lagrangian predictability at depth in a meandering jet. *Dyn.Atmos.Oceans*, 35:41-61, 2002.

**Zhang, S., Steve Anderson, Albert Plueddemann, and R. A. Weller.**

Large scale variability of surface heat flux and upper ocean response in the western Pacific during COARE/IOP. In: *COARE-98, Proceedings of a conference on the TOGA coupled ocean-atmospheric response experiment, Boulder, CO, 7-14 July 1998*. Geneva, Switzerland: World Meteorological Organization, WCRP-107, WMO/TD-No.40, :251-252, 1999.

## **Administration**

**Dinsmore, R. P.**

Ships. In: *Encyclopedia of Ocean Sciences*. John H. Steele, Karl K. Turekian, Steve A. Thorpe, eds., London: Academic Press, 5:2776-2786, 2001.

**Farrington, John W.**

Achievements in chemical oceanography. In: *Fifty Years of Ocean Discovery*. John H. Steele, ed., Washington, DC: National Academy Press, :22-43, 2000. 10083

**Kujawinski, E., John W. Farrington, and James W. Moffett.**

Evidence for grazing-mediated production of dissolved surface-active material by marine protists. *Mar.Chem.*, 77:133-142, 2002.

**Rioux, Maggie.**

President's corner. *NASIG Newsletter*, 17(1):1-3, 2002.

**Rioux, Maggie.**

President's corner. *NASIG Newsletter*, 17(2):1-3, 20, 2002.

**Rioux, Margaret A.**

Contributing to the literature: Migrating a local bibliographic database to the world wide web. *Sci.Tech.Lib.*, 20(1):103-112, 2001.

**Schubel, Jerry R., Robert F. Lobecker, Donald Jagoe, Susan Snow Cotter, Hartley Hoskins, and Christopher Polloni.**

The Gulf of Maine: will the big investments in technology and science yield the return expected by investors? *Mar.Technol.Soc.J.*, 36(2):63-65, 2002.

In addition, through reading the literature I can find potential solutions to scientific barriers I am facing in my own research. But I do find it difficult to integrate this task into my daily routine. To make a contribution to scientific research and effectively teach my students, I need to be very familiar with the current state of knowledge and with what ideas and methods are being used at the frontier of my field. But I find that keeping up with the literature always comes with a trade-off: Do I spend more time on my research projects, or do I read the latest papers? You just hope you don't have that moment when reading a report from a referee who isn't happy that you missed an important citation! - Ganguli.