WHOI Contributions to the Scientific Literature
Monthly Activity Report

Articles Received in April 1999
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Anderson, D. M.
 Systems for identifying brown tide.
 Department of WHOI Author: BIO.
 Contribution Number: NONE

Anderson, Donald M. and David J. Garrison.
The ecology and oceanography of harmful algal blooms.
Department of WHOI Author: BIO.
Contribution Number: NONE

Austin, T. C. and R. Stokey.
Department of WHOI Author: AOPE.
Contribution Number: NONE

Bachmayer, R., L. L. Whitcomb, and M. A. Grosenbaugh.
Department of WHOI Author: AOPE.
Contribution Number: 9749
Department of WHOI Author: AOPE.
Contribution Number: NONE

Barbieri, Elena, Deborah Hughes, Rebecca Ericson, and Andreas Teske.
Department of WHOI Author: BIO.
Contribution Number: 9651

Department of WHOI Author: BIO.
Contribution Number: 9718

Department of WHOI Author: PO.
Contribution Number: NONE

Bishop, Christine A., P. Ng, K. E. Pettit, S. W. Kennedy, J. J. Stegeman, R. J. Norstrom, and R. J. Brooks.
Department of WHOI Author: BIO.
Contribution Number: NONE

Brink, K. H.
Department of WHOI Author: PO.
Contribution Number: NONE
A unified framework for mode filtering and the maximum a posteriori mode filter. 
Department of WHOI Author: AOPE.
Contribution Number: 9456

Bucklin, Ann, Sara B. Smolenack, Alyssa M. Bentley, and Peter H. Wiebe.
Gene flow patterns of the euphausiuid, *Meganyctiphanes norvegica*, in the NW Atlantic based on mtDNA sequences for cytochrome b and cytochrome oxidase I. 
Department of WHOI Author: BIO.
Contribution Number: 9318

Buesseler, Ken O.
The isotopic signature of fallout plutonium in the North Pacific. 
Department of WHOI Author: MCG.
Contribution Number: 9298

Butman, Cheyl Ann, Cabell S. Davis.
Small-scale pattern and processes in benthic and planktonic invertebrates. 
Department of WHOI Author: BIO.
Contribution Number: NONE

Canfield, D. E., and A. Teske.
Department of WHOI Author: BIO.
Contribution Number: NONE

Cannat, Mathilde, Anne Briais, Christine Deplus, Javier Escartin, Jennifer Georgen, Jian Lin, Serguei Mercuriev, Christine Meyzen, Mark Muller, Gaud Pouliquen, Aline Rabain, and Pedro da Silva.
Sud Acores cruise: Variation in magma supply and the past segmentation of the MAR in the Lucky Strike-FAMOUS and Oceanographer FZ regions. 
Department of WHOI Author: GEOL.
Contribution Number: NONE
Department of WHOI Author: BIO.
Contribution Number: NONE

Caron, D. A. and B. B. Ward.
Functional significance of marine microbial diversity.
Department of WHOI Author: MCG.
Contribution Number: NONE

Declining survival probability threatens the North Atlantic right whale.
Department of WHOI Author: BIO.
Contribution Number: 9852

Department of WHOI Author: AOPE.
Contribution Number: NONE

Chapman, David C.
Dense water formation beneath a time-dependent coastal polynya.
Department of WHOI Author: PO.
Contribution Number: 9714

Chen, Y. John and Jian, Lin.
Department of WHOI Author: GEOL.
Contribution Number: NONE

Churchill, J. H.
Department of WHOI Author: PO.
Contribution Number: NONE
Clift, Peter D. and J. Godfrey Fitton.
Department of WHOI Author: GEOL.
Contribution Number: NONE

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Colosi, J. A.
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Colosi, J. A. and S. M. Flatte.
Department of WHOI Author: AOPE.
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Curran, Daniel.
Department of WHOI Author: MPC.
Contribution Number: 9491
Curran, Daniel A.
Department of WHOI Author: MPC.
Contribution Number: NONE

DeGrandpre, Michael D., Terrance R. Hammar, and Creighton D. Wirick.
Studies of coastal CO$_2$ and O$_2$ dynamics using moored autonomous sensors.
Department of WHOI Author: AOPE.
Contribution Number: NONE

Dick, Henry J. B.
Department of WHOI Author: GEOL.
Contribution Number: NONE

Department of WHOI Author: AOPE. BIOL.
Contribution Number: NONE

Department of WHOI Author: PO.
Contribution Number: 9834

Department of WHOI Author: AOPE.
Contribution Number: 9735

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Contribution Number: NONE
Driscoll, N. W. and G. H. Haug.
Department of WHOI Author: GEOL.
Contribution Number: 9795

Driscoll, N.W. and G. D. Karner.
Department of WHOI Author: GEOL.
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Driscoll, Neal W. and Garry D. Karner.
Department of WHOI Author: GEOL.
Contribution Number: 9575

Driscoll, Neal W. and John B. Diebold.
Department of WHOI Author: GEOL.
Contribution Number: 9754

Druffel, Ellen R. M., Sheila Griffin, Susumu Honjo, and Steven J. Manganini.
Department of WHOI Author: GEOL.
Contribution Number: NONE

Duda, Timothy F. and David C. Jacobs.
Department of WHOI Author: AOPE.
Contribution Number: 9451

Department of WHOI Author: BIO.
Contribution Number: NONE
Feng, Ming, Mark A. Merrifield, Robert Pinkel, Peter Hacker, Albert J. Plueddemann, Eric Firing, Roger Lukas, and Charles Eriksen.
Semidiurnal tides observed in the western equatorial Pacific during the Tropical Ocean-Global Atmosphere Coupled Ocean-Atmosphere Response Experiment. 
Department of WHOI Author: PO.
Contribution Number: NONE

Fragoso, Nuno M., Joanne L. Parrott, Mark E. Hahn, and Peter V. Hodson.
Chronic retene exposure causes sustained induction of CYPIA activity and protein in rainbow trout (Oncorhynchus mykiss). 
Department of WHOI Author: BIO.
Contribution Number: 9567

Freitag, L., M. Johnson, and J. Preisig.
Department of WHOI Author: AOPE.
Contribution Number: NONE

Freitag, Lee, Matthew Grund, Sandipa Singh, Samuel Smith, Reed Christenson, Larry Marquis, and Josko Catipovic.
Birdirectional coherent acoustic communication system for underwater vehicles. 
Department of WHOI Author: AOPE.
Contribution Number: NONE

Hydrothermal processes and architecture of the slow-spreading MAR at TAG and Rainbow hydrothermal fields and Dante's dome megamuraion site (Mode '98 Leg). 
Department of WHOI Author: GEOL.
Contribution Number: NONE

Gaines, Arthur G.
Department of WHOI Author: MPC.
Contribution Number: NONE
Gawarkiewicz, Glen, Timothy G. Ferdelman, Thomas M. Church, and George W. Luther III.
Shelfbreak frontal structure on the continental shelf north of Cape Hatteras. 
Department of WHOI Author: PO.
Contribution Number: 8822

Gobat, Jason I. and Mark A. Grosenbaugh.
Department of WHOI Author: AOPE.
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Goldsborough, R., B. Allen, and R. Stokey.
Department of WHOI Author: AOPE.
Contribution Number: NONE

Gonzalez-Gil, Sonsoles, Bruce A. Keafer, Raffael V. M. Jovine, Angeles Aguilera, Songhui Lu, and Donald M. Anderson.
Department of WHOI Author: BIO.
Contribution Number: 9581

Gordon, Lee Williams.
‘Sleepy sensor’ synchronization for autonomous deployments. 
Department of WHOI Author: AOPE.
Contribution Number: NONE

Grassle, J. Frederick, Scott Glenn, and Chris von Alt.
Department of WHOI Author: AOPE.
Contribution Number: NONE

Greene, Charles H. and Peter H. Wiebe.
Acoustic visualization of three-dimensional animal aggregations in the ocean. 
Department of WHOI Author: BIO.
Contribution Number: NONE
Groman, R. C.
CD-ROM Appendix in "Deep Sea Research Part II".
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Department of WHOI Author: BIO.
Contribution Number: NONE

Groman, Robert C. and Peter H. Wiebe.
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Gustafsson, D., K. O. Buesseler, and P. M. Gschwend.
Department of WHOI Author: MCG.
Contribution Number: 9145

Gustafsson, Orjan, Ken O. Buesseler, W. Rockwell Geyer, S. Bradley Moran, and Philip M. Gschwend.
Department of WHOI Author: AOPE.
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Gustafsson, Orjan.
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Contribution Number: 9545

Gustafsson, Orjan, Phil M. Gschwend, and Ken O. Buesseler.
Department of WHOI Author: MCG.
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Hahn, M. E., S. I. Karchner, M. A. Shapiro, and S. A. Perera.
Department of WHOI Author: BIO.
Contribution Number: 9461
Hahn, Mark E.
Mechanisms of innate and acquired resistance to dioxin-like compounds.
Department of WHOI Author: BIO.
Contribution Number: 9676

Halanych, Kenneth M.
Lagomorphs misplaced by more characters and fewer taxa.
Department of WHOI Author: BIO.
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Hall, Melinda M., Pearn P. Niiler, and William J. Schmitz, Jr.
Department of WHOI Author: PO.
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Halpern, David, Michael Freilich, and Robert A. Weller.
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Hanson, Kurt A., Tetsu Hara, Erik J. Bock, and Andrey B. Karachintsev.
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Contribution Number: 9562

Harbison, G. R.
Department of WHOI Author: BIO.
Contribution Number: NONE
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Hill, Richard W., Bradley A. White, Matthew T. Cottrell, and John W. Dacey.
Department of WHOI Author: BIO.
Contribution Number: NONE

Department of WHOI Author: GEOL.
Contribution Number: NONE

Hirth, G. and J. Tullis.
Department of WHOI Author: GEOL.
Contribution Number: NONE

Holland, P. M., R. V. Mustacich, J. F. Everson, and J. W. H. Dacey
Department of WHOI Author: BIO.
Contribution Number: NONE

Honda, Makio C., Masashi Kusakabe, Shigeto Nakabayashi, Steven J. Manganini, and Susumu Honjo.
Department of WHOI Author: GEOL.
Contribution Number: NONE
Honnorez, Jose J., Jeffrey C. Alt, and Susan E. Humphris.
Department of WHOI Author: GEOL.
Contribution Number: NONE

Hosom, David S.
Department of WHOI Author: PO.
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Huang, Rui Xin.
Department of WHOI Author: PO.
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Huang, Rui Xin and Joseph Pedlosky.
Department of WHOI Author: PO.
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Huang, Rui Xin.
Department of WHOI Author: PO.
Contribution Number: NONE

Humphris, Susan.
Department of WHOI Author: GEOL.
Contribution Number: NONE
Humphris, Susan E., Jeffrey C. Alt, Damon H. A. Teagle, and Jose J. Honnorez.
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Huuskonen, Sirpa E., Mark E. Hahn, and Pirjo Lindstrom-Seppa.
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Ito, Garrett, Yang Shen, Greg Hirth, and Cecily J. Wolfe.
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Jannasch, Holger W.
Department of WHOI Author: BIO.
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Jin, Di and Hauke L. Kite-Powell.
Department of WHOI Author: MPC
Contribution Number: 9119

Department of WHOI Author: PO.
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Contribution Number: 9641
**Keigwin, L. D. and Edward A. Boyle.**
Department of WHOI Author: GEOL.
Contribution Number: NONE

**Kelemen, Peter.**
Melt extraction from the mantle beneath mid-ocean ridges.
Department of WHOI Author: GEOL.
Contribution Number: NONE

**Kelly, Kathryn A., Robert C. Beardsley, Richard Limeburner, and Kenneth H. Brink.**
Variability of the near-surface eddy kinetic energy in the California Current based on altimetric, drifter, and moored current data.
Department of WHOI Author: PO.
Contribution Number: NONE

**Kinsey, James C.**
Drag characterization in the autonomous benthic explorer.
Department of WHOI Author: AOPE.
Contribution Number: 9734

**Kite-Powell, H. L., P. Hoagland, and Di Jin.**
Department of WHOI Author: MPC.
Contribution Number: 9053

**Kite-Powell, Hauke L., and Di Jin.**
Risk factors for groundings and collisions in U.S. port approaches.
Department of WHOI Author: MPC, AOPE.
Contribution Number: NONE
Kokinos, John P., Timothy I. Eglinton, Miguel A. Goni, Jaap J. Boon, and Pamela A. Martoglio.
Department of WHOI Author: BIO.
Contribution Number: 9345

Krekeler, D., A. Teske, and H. Cypionka.
Department of WHOI Author: BIO.
Contribution Number: NONE

Ledwell, James R., Andrew J. Watson, and Clifford S. Law.
Department of WHOI Author: AOPE.
Contribution Number: 9490

Legg, S., J. McWilliams, and J. Gao.
Department of WHOI Author: PO.
Contribution Number: NONE

Legg, Sonya and John Marshall.
Department of WHOI Author: PO.
Contribution Number: NONE

Loder, John W., Brian Petrie, and Glen Gawarkiewicz.
The coastal ocean of northeastern North America: A large-scale view coastal segment (1,W).
Department of WHOI Author: PO.
Contribution Number: 8964

Luyten, James.
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Contribution Number: NONE


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Contribution Number: NONE

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Department of WHOI Author: PO.
Contribution Number: 9576

Moore, Michael J., Roxanna M. Smolowitz, and John J. Stegeman.
Stages of hydropic vacuolation in the liver of winter flounder (Pleuronectes americanus) from a chemically-contaminated site.
Department of WHOI Author: BIO.
Contribution Number: 9468

Morrison, Archie T., III and Albert J. Williams, 3rd.
Near bottom velocity profile measurements using the field prototype of the BASS rake wave bottom boundary layer sensor.
Department of WHOI Author: AOPE.
Contribution Number: 9639

Morrison, Archie T., III.
The single axis sample volume of the BASS rake acoustics current sensor.
Department of WHOI Author: AOPE.
Contribution Number: 9733

Mountain, D. G., G. A. Strout, and R. C. Beardsley.
Department of WHOI Author: PO.
Contribution Number: NONE

Mullineaux, Lauren.
Department of WHOI Author: BIO.
Contribution Number: NONE

Nakamura, Masahiko, Ralf Bachmayer, Louis L. Whitcomb, and Mark Grosenbaugh.
H control of thruster for AUV.
Department of WHOI Author: AOPE.
Contribution Number: NONE
Development of the mussel aquaculture lease site model MUSMOD copyright: A field program to calibrate model formulations. 
Department of WHOI Author: BIO. 
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Norris, R. D. 
Department of WHOI Author: GEOL. 
Contribution Number: NONE

Norris, R. D. and R. M. Corfield. 
Department of WHOI Author: GEOL. 
Contribution Number: NONE

Paillet, Jerome, Michel Arhan, and Michael S. McCartney. 
The spreading of Labrador Sea water in the North Atlantic. 
Department of WHOI Author: PO. 
Contribution Number: 9481

Perez, Catalina Castell, Suzanne Roy, Maurice Levasseur, and Donald M. Anderson. 
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Contribution Number: 9603

Pathways of carbon cycling in the euphotic zone: The fate of large-sized phytoplankton in the Northeast Water Polynya. 
Department of WHOI Author: BIO. 
Contribution Number: NONE
Pratt, L. J. and M. Chechelnitsky.
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Contribution Number: NONE

Price, James F. and Jiayan Yang.
Marginal sea overflows for climate simulations.
In: *Ocean Modeling and Parameterization*, E. P. Chassignet and J. Verron, eds.
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In: *Ocean Modeling and Parameterization*, E. P. Chassignet and J. Verron, eds.
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Qi, Yu-zao, Hong Ying, Zheng Lei, David M. Kulis, and Donald M. Anderson.
Department of WHOI Author: BIO.
Contribution Number: NONE

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Contribution Number: NONE

Ralph A. Stephen.
Department of WHOI Author: GEOL.
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Rengefors, Karin and Donald M. Anderson.
Department of WHOI Author: BIO.
Contribution Number: 9564
Teleprogramming for subsea teleoperation using acoustic communication.
Department of WHOI Author: AOPE.
Contribution Number: 9216

Schlezinger, Jennifer J., Carol Parker, Daryyl C. Zeldin, and John J. Stegeman.
Arachidonic acid metabolism in the marine fish *Stenotomus chrysops* (scup) and the effects of cytochrome P4501A inducers.
Department of WHOI Author: BIO.
Contribution Number: 9609

Schneider, R. J. and K. F. von Reden.
A correction for aberrations in the Woods Hole recombinator.
Department of WHOI Author: GEOL.
Contribution Number: NONE

Shalapenok, L. S. and A. A. Shalapenok.
Spatial distribution and composition heterogeneity of the populations of picoplankton cyanobacteria *Synechococcus spp* in the Black Sea.
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Heterogeneous pigment composition of phycoerythrin-containing picocyanobacteria *Synechococcus spp* in the Black Sea.
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An oceanographic buoy with interactive satellite communications.
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Sherman, K., A. Solow, J. Jossi, and J. Kane.

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Contribution Number: NONE


Lateral trapping of sediment in a partially mixed estuary.
Department of WHOI Author: AOPE.
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Simpson, James J. and Jason I. Gobat.

Improved cloud detection for daytime AVHRR scenes over land.
Department of WHOI Author: AOPE.
Contribution Number: NONE

Singh, Hanumant, Steve Lerner, Keith von der Heydt, and Bradley A. Moran.

An intelligent dock for an autonomous ocean sampling network.
Department of WHOI Author: AOPE.
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Quantitative photomosaicking of underwater imagery.
Department of WHOI Author: AOPE.
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Issues in AUV design and deployment for oceanographic research.
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Contribution Number: 9323

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Contribution Number: NONE

Smith, Susan E. and Susan E. Humphris.
Geochemistry of basaltic rocks from the TAG hydrothermal mound (26°08'N), Mid-Atlantic Ridge.
Department of WHOI Author: GEOL.
Contribution Number: NONE

Snelgrove, Paul V. R., Judith P. Grassle, and Cheryl Ann Butman.
Department of WHOI Author: AOPE.
Contribution Number: NONE

Solow, A. R.
Department of WHOI Author: MPC.
Contribution Number: NONE

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Contribution Number: 9337

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Stanton, Timothy K., Dezhang Chu, and Peter H. Wiebe.
Ray solutions to sound scattering by complex bodies: Application to zooplankton.
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P. P. Delsanto and A. W. Saenz, eds. Gordon and Breach Science Publishers,
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Contribution Number: 9204

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Incorporating the microbial loop in a simple plankton model. Proc.R.Soc.,
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Contribution Number: 9740

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Contribution Number: 9750

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Department of WHOI Author: MPC.
Contribution Number: 9684

Stokozov, N. A. and K. O. Buessler.
Mixing model for the north-west Black Sea using $^{90}$Sr and salinity as tracers.
Department of WHOI Author: MCG.
Contribution Number: 9627

Tang, Xiaoou, K. W. Stewart, Luc Vincent, He Huang, Marty Marra,
Scott M. Gallager, and Cabell S. Davis.
Automatic plankton image recognition.
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Taroncher-Oldenburg, G. and D. M. Anderson.
Identification by differential display of genes expressed concurrently with saxitoxin
biosynthesis in the red tide dinoflagellate Alexandrium fundyense.
In: Harmful Algae, Beatriz Reguera, et al., eds. Intergovernmental Oceanographic
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Bo Barker Jorgensen, and Yehuda Cohen.
Sulfate-reducing bacteria and their activities in cyanobacterial mats of Solar Lake
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Contribution Number: NONE

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Contribution Number: NONE
Tivey, Maurice A.
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Contribution Number: NONE

Toole, John M.
Department of WHOI Author: PO.
Contribution Number: NONE

Department of WHOI Author: AOPE.
Contribution Number: NONE

Department of WHOI Author: AOPE. PO.
Contribution Number: 8988

Tucholke, Brian E.
Department of WHOI Author: GEOL.
Contribution Number: NONE

Tyack, P. L.
Department of WHOI Author: BIO.
Contribution Number: NONE

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Contribution Number: NONE
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Contribution Number: NONE

van Couwelaar, Matthijs, Martin V. Angel, and Laurence P. Madin.
Department of WHOI Author: BIO.
Contribution Number: 9232

von der Heydt, Keith, Daniel Frye, Mark Johnson, Shu-chiang, and Nicholas Patrikalakis.
Department of WHOI Author: AOPE.
Contribution Number: NONE

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Department of WHOI Author: GEOL.
Contribution Number: NONE

Department of WHOI Author: GEOL.
Contribution Number: 9817

$^{14}$C AMS measurements of $<$100 ug samples with a high-current system.


Department of WHOI Author: GEOL.

Contribution Number: NONE

von Reden, Karl F.

NOSAMS controls with labview? Experiences with off-the-shelf software.


Department of WHOI Author: GEOL.

Contribution Number: NONE

von Reden, Karl F., Robert J. Schneider.


Department of WHOI Author: GEOL.

Contribution Number: NONE

Waite, A., S. Gallager, and H. G. Dam.


Department of WHOI Author: BIO.

Contribution Number: NONE


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Contribution Number: NONE
Whelan, Jean K., Nathan Mah, Greg Eischeid, Robert Chen, Xuchen Wang,
Harry Roberts, and Paul Aharon.
Gas and oil seepage and hydrothermal venting in the ocean bottom - detection by
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Department of WHOI Author: MCG.
Contribution Number: NONE

Whitcomb, Louis L., Suguru Arimoto, Tomohide Naniwa, and Fumio Ozaki.
Adaptive model-based hybrid control of geometrically constrained robot arms.
Department of WHOI Author: AOPE.
Contribution Number: 8850

White, Sheri N., Susan E. Humphris, and Martin C. Kleinrock.
New observations on the distribution of past and present hydrothermal activity in
the TAG area of the Mid-Atlantic Ridge (26[deg]08'N).
Department of WHOI Author: GEOL.
Contribution Number: 9670

Wiebe, P. H., R. C. Beardsley, D. G. Mountain, and A. Bucklin.
Global ocean ecosystem dynamics - initial program in Northwest Atlantic.
Department of WHOI Author: BIO. PO.
Contribution Number: NONE

Williams, Albert J., 3rd and Fredrik T. Thwaites.
Earth coordinate 3-D currents from a modular acoustic velocity sensor.
Department of WHOI Author: AOPE.
Contribution Number: 9739

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Contribution Number: NONE

Yang, Jiayan and J. David Neelin.
Decadal variability in coupled sea-ice thermohaline circulation systems.
Department of WHOI Author: PO.
Contribution Number: 9409
Yang, Jiayan.
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Contribution Number: 9802

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Department of WHOI Author: BIO.
Contribution Number: NONE

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Department of WHOI Author: BIO.
Contribution Number: NONE

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Structure over large distances and long times.
Department of WHOI Author: AOPE.
Contribution Number: NONE

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Contribution Number: NONE
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Towards a molecular phylogeny of colonial spumellarian radiolaria.
Department of WHOI Author: BIO.
Contribution Number: 9827

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