



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles in Preparation - September 1997

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Austin, Jay A.

The role of the alongshore wind stress in the heat budget of the North Carolina Inner Shelf. *J.Geophys.Res.*, IN PRESS.

Contracts: ONR N00014-93-1-1154.

Department of WHOI Author: PO.

Contribution Number: **9559**

Bainy, Afonso C. D., Bruce R. Woodin and John J. Stegeman.

Elevated levels of multiple cytochrome P450 form in Tilapia from Billings Reservoir-Sao Paulo, Brazil. *Aquat.Toxicol.*, IN PRESS.

Contracts: EPA 823890, AFOSR F49620-94-1-0368, NIH ES-07381.

Department of WHOI Author: BIO.

Contribution Number: **9549**

Bokhove, O., J. Vanneste and T. Warn.

A variational formulation for barotropic quasi-geostrophic flows.

G.A.Fluid Dyn., IN PRESS.

Contracts: WHOI postdoctoral grant.

Department of WHOI Author: PO.

Contribution Number: **9552**

Bokhove, Onno and E. R. Johnson.

Hybrid coastal and interior modes for two-dimensional homogeneous flow in a cylindrical ocean. *J.Phys.Oceanogr.*, IN PRESS.

Contracts: WHOI postdoctoral grant.

Department of WHOI Author: PO.

Contribution Number: **9551**

Bower, Amy S. and James F. Price.

The Red Sea and Persian Gulf outflows. *J.Geophys.Res.*, IN PRESS.

Contracts: ONR N00014-95-1-0284.

Department of WHOI Author: PO.

Contribution Number: **9548**

Brink, K. H. and R. M. Samelson.

Comment on "Direct atmospheric forcing of geostrophic eddies. Part II: Coherence Maps". *J.Phys.Oceanogr.*, IN PRESS.

Contracts: ONR N00014-92-J-1528, NSF OCE94-15512.

Department of WHOI Author: PO.

Buesseler, Ken O.

The de-coupling of production and particulate export in surface ocean.

Glob.Biogeochem.Cycles, IN PRESS.

Contracts: NSF OCE92-03952, NSF OCE93-10702, OPP 95-30861.

Department of WHOI Author: MCG.

Contribution Number: **9546**

Canales, J. Pablo, Juan-Jose Danobeitia, Robert S. Detrick, Emilie E. E. Hooft, Rafael Bartolome and David Naar.

Variations in axial morphology along the Galapagos spreading center and the influence of the Galapagos hotspot. *J.Geophys.Res.*, IN PRESS.

Contracts: NSF OCE93-01058.

Department of WHOI Author: GEOL.

Caron, D. A. and M. R. Dennett.

Phytoplankton growth and mortality during the 1995 Northeast Monsoon and Spring Intermonsoon in the Arabian Sea. *Deep-Sea Res.*, IN PRESS.

Contracts: NSF OCE93-10693.

Department of WHOI Author: BIO.

Contribution Number: **9566**

Clift, Peter D. and Jongman Lee.

Temporal evolution of the Mariana Arc during rifting of the Mariana Trough traced through the volcanoclastic record. *The Island Arc*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **9573**

Clift, Peter D. and Jonathan Turner.

Paleogene igneous underplating and subsidence anomalies in the Rockall-Faeroe-Shetland area. *Mar.Pet.Geol.*, IN PRESS.

Department of WHOI Author: GEOL.

Contribution Number: **9572**

**Collins, John A., James E. Broda, G. M. Purdy, Joel Gaspin, Tom Griffin,
Carl Peletski, Len Lipton and Bryan Baudler.**

Source signature measurements of underwater explosives at very high ambient pressures. *J.ACOUST.SOC.AM*, IN PRESS.

Contracts: ONR N00174-94-K-0098.

Department of WHOI Author: GEOL.

Conte, Maureen H., Anthony Thompson, David Lesley and Roger P. Harris.

Genetic and physiological influences on the alkenone/alkenoate versus growth temperature relationship in *Emiliania huxleyi* and *Gephyrocapsa oceanica*.

Geochim.Cosmochim.Acta, IN PRESS.

Contracts: NERC GR3-3758, EC MAS2-CT9-0038.

Department of WHOI Author: MCG.

Contribution Number: **9571**

Curran, Daniel A.

Remembering Charles A. Lockwood, Jr.. *Nav.Hist.*, IN PRESS.

Contracts: The Marine Policy Center.

Department of WHOI Author: MPC.

Contribution Number: **9540**

**Dennett, M. R., D. A. Caron, S. A. Murzov, I. G. Polikarpov, N. A. Gavrilova,
L. V. Gerogieva and L.V. Kuzmenko.**

Abundance and biomass of nano- and microplankton assemblages during the 1995 Northeast Monsoon and Spring Intermonsoon in the Arabian Sea.

Deep-Sea Res., IN PRESS.

Contracts: NSF OCE93-10693.

Contribution Number: **9565**

Driscoll, Neal and Elazar Uchupi.

The importance of gas and groundwater seepage in landscape and seascape evolution. *Thalassas*, IN PRESS.

Contracts: ONR N00014-96-1-0026.

Department of WHOI Author: GEOL.

Contribution Number: **9486**

Driscoll, Neal W. and Garry D. Karner.

Lower crustal extension across the Northern Carnarvon basin, Australia: Evidence for an eastward dipping detachment. *J.Geophys.Res.*, IN PRESS.

Contracts: ONR N00014-96-1-0026, Palisades Geophysical Institute.

Department of WHOI Author: GEOL.

Contribution Number: **9575**

Fragoso, Nuno M., Joanne L. Parrott, Mark E. Hahn and Peter V. Hodson.

Chronic retene exposure causes sustained induction of CYP1A activity and protein in rainbow trout (*Oncorhynchus mykiss*). *Environ.Toxicol.Chem.*, IN PRESS.

Contracts: NOAA Grant NA46-RG-0470(WHOI Sea Grant R/B-124).

Department of WHOI Author: BIO.

Contribution Number: **9567**

Gustafsson, Orjan, Philip M. Gschwend and Ken O. Buesseler.

Settling removal rates of PCBs into the Northwestern Atlantic derived from ^{238}U - ^{234}Th disequilibria. *Environ.Sci. & Technol.*, IN PRESS.

Contracts: MIT, University of Maine.

Department of WHOI Author: MCG.

Contribution Number: **9545**

Hahn, Mark E., Sibel I. Karchner, Miriam A. Shapiro and Samantha A. Perera.

Molecular evolution of two vertebrate aryl hydrocarbon (dioxin) receptors (AHR1 and AHR2) and the PAS family. *Proc.Nat.Acad.Sci.U.S.A.*, IN PRESS.

Contracts: NSF BIR94-19673, NIEHS R29-ES06272, NIEHS F32-ES05644, NIEHS P42-ES07381, Donald Charitable Trust, Christopher Haebler Frantz Fellowship.

Department of WHOI Author: BIO.

Contribution Number: **9560**

Hill, Richard W. and John W. H. Dacey.

Accurate dimethylsulfide quantification in multiple-sample bottle experiments and other multiple-sample applications. *Geophys.Res.Lett.*, IN PRESS.

Contracts: NSF OCE94-11497, NASA NAGW-4765,

NOAA Sea Grant NA46-R-G0470.

Department of WHOI Author: BIO.

Contribution Number: **9554**

Hill, Richard W. and John W. H. Dacey.

Metabolism of dimethylsulfoniopropionate by Atlantic menhaden (*Brevoortia tyrannus*). *Mar.Ecol.Prog.Ser.*, IN PRESS.

Contracts: NSF OCE94-11497, NSF OCE91-02532.

Department of WHOI Author: BIO.

Contribution Number: **9553**

Hogg, Nelson G., Gerold Siedler and Walter Zenk.

Circulation and variability at the southern boundary of the Brazil Basin.

J.Phys.Oceanogr., IN PRESS.

Contracts: NSF OCE90-04396, NSF OCE94-15509.

Department of WHOI Author: PO.

Contribution Number: **9558**

Jickells, T.D., S. Dorling, W. G. Deuser, T. M. Church, R. Arimoto and J. Prospero.

Air-borne dust fluxes to a deep water sediment trap in the Sargasso Sea.

Glob.Biogeochem.Cycles, IN PRESS.

Contracts: NSF OCE92-15350, NSF OCE93-12826 (to WGD), NSF AEROCE Program Grant ATM90-13224 (to TMC), NSF ATM94-14262 (to JG), Bermuda

Biological Station, .

Department of WHOI Author: MCG.

Contribution Number: **9539**

Kaplan, Ilene M.

Regulation and compliance in the New England conch fishery: A case for co-management. *Mar. Policy*, IN PRESS.

Contracts: The Marine Policy Center, Marine Biological Laboratory, Massachusetts Division of Marine Fisheries, Union College Subcouncil on Research and Grants.

Department of WHOI Author: MPC.

Contribution Number: **9521**

Molinari, Robert L., Rana A. Fine, W. Douglas Wilson, Jeff Abell, Michael McCartney and Ruth Curry.

A fast-track for recently formed Labrador Sea water: The deep western boundary current of the North Atlantic Ocean. *Science*, IN PRESS.

Contracts: NSF OCE95-29606.

Department of WHOI Author: PO.

Contribution Number: **9576**

Olson, Donald B., Ann Bucklin and Peter H. Wiebe.

Distributions of genetic traits in copepods: A model study.

J.Mar.Res., IN PRESS.

Contracts: ONR N00014-92-J-1527, ONR N00014-96-1-0268.

Department of WHOI Author: BIO.

Contribution Number: **9555**

Pickart, Robert S., Daniel J. Torres, Theresa K. McKee, Michael J. Caruso and Jennifer E. Przystup.

Diagnosing a meander of the shelfbreak current in the Mid-Atlantic bight.

J.Geophys.Res., IN PRESS.

Contracts: ONR N00014-95-1-0575.

Department of WHOI Author: PO.

Contribution Number: **9574**

Pineda, Jesus and Hal Caswell.

Bathymetric species-diversity patterns and boundary constraints on vertical range distributions. *Deep-Sea Res. II*, IN PRESS.

Contracts: ONR N00014-92-J-1527, NSF OCE95-29626.

Department of WHOI Author: BIO.

Contribution Number: **9556**

Rengefors, Karin and Donald M. Anderson.

Environmental and endogenous regulation of cyst germination in two fresh-water dinoflagellates. *J. Phycol.*, IN PRESS.

Contracts: NSF OCE94-15536.

Department of WHOI Author: BIO.

Contribution Number: **9564**

Richardson, Philip L.

SOFAR float trajectories in the deep western boundary current of the tropical Atlantic, 1989-1992. *Deep-Sea Res.*, IN PRESS.

Contracts: NSF OCE85-21082, NSF OCE85-17375, NSF OCE91-14656.

Department of WHOI Author: PO.

Contribution Number: **9570**

Schmitz, B., B. Peucker-Ehrenbrink, M. Lindstrom and M. Tassinari.

Accretion rates of meteorites and cosmic dust in the early Ordovician. *Science*, IN PRESS.

Contracts: Jessie B. Cox Endowed Fund, Penzance Endowed Fund.

Department of WHOI Author: MCG.

Contribution Number: **9538**

Schumacher, Mary.

Report from the Marine Policy Center of the Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, USA. In: *Ocean Yearbook 14. (E.M. Borgese et al., eds.) University of Chicago Press.*, IN PRESS.

Contracts: The Marine Policy Center.

Department of WHOI Author: MPC.

Contribution Number: **9542**

Solow, Andrew R. and Woollcott K. Smith.

How surprising is a new record?. *Am. Stat.*, IN PRESS.

Contracts: The Marine Policy Center.

Department of WHOI Author: MPC.

Contribution Number: **9541**

Spall, Michael A.

A simple model of the large scale circulation of Mediterranean Water and Labrador Sea Water. *Deep-Sea Res.*, IN PRESS.

Contracts: NSF OCE95-31874.

Department of WHOI Author: PO.

Contribution Number: **9568**

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Regime shifts in marine ecosystems. *Ecol.Appl.*, IN PRESS.

Contracts: ONR N00014-92-J-1527.

Department of WHOI Author: MPC.

Contribution Number: **9534**

Tivey, Margaret K. and Sandipa Singh.

Nondestructive imaging of fragile sea-floor vent deposit samples.

Geology, IN PRESS.

Contracts: NSF OCE92-16046, NSF OCE93-14005.

Department of WHOI Author: MCG.

Contribution Number: **9557**

**Voulgaris, George, John H. Trowbridge, William J. Shaw and
Albert J. Williams 3rd**

High resolution measurements of turbulent fluxes and dissipation rates in the Benthic Boundary Layer. *Coastal Dynamics '97, ASCE*, IN PRESS.

Department of WHOI Author: GEOL.

Weller, R. A., M. F. Baumgartner, S. A. Josey, A. S. Fischer and J. C. Kindle.

A one-year record of atmospheric forcing from the Arabian Sea.

Deep-Sea Res., IN PRESS.

Contracts: ONR N00014-94-1-0161.

Department of WHOI Author: PO.

Contribution Number: **9569**

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