



WHOI Contributions to the Scientific Literature Monthly Activity Report

Articles Received in October 2001

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

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

Department of WHOI Author: PO.

Contribution Number: **NONE**

Bivens, J., M. Geiger, J. Bird, D. Lapota, and P. Fucile.

Performance evaluation of two prototype bioluminescence sensors. In: *Ocean Optics XV Conference. Musee Oceanographique, Monaco, October 16-20, 2000* Steve Ackleson and John Marra, Co-Convenors. CD ROM prepared by the Office of Naval Research (Ocean, Atmosphere and Space S&T Department), Washington, D. C., 5 pp., 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Bower, Amy S. and Heather D. Hunt.

Lagrangian observations of the Deep Western Boundary Current in the North Atlantic Ocean. Part 1: Large-scale pathways and spreading rates. *J.Phys.Oceanogr.*, 30:764-783, 2000.

Department of WHOI Author: PO.

Contribution Number: **9805**

Bower, Amy S. and Heather D. Hunt.

Lagrangian observations of the Deep Western Boundary Current in the North Atlantic Ocean. Part 2: The Gulf Stream-Deep Western Boundary Current crossover. *J.Phys.Oceanogr.*, 30:784-804, 2000.

Department of WHOI Author: PO.

Contribution Number: **9806**

Bower, Amy S., Heather D. Hunt, and James F. Price.

Character and dynamics of the Red Sea and Persian Gulf outflows. *J.Geophys.Res.*, 105(C3):6387-6414, 2000.

Department of WHOI Author: PO.

Contribution Number: **9548**

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

The velocity distribution of barotropic turbulence.

Phys.Fluids, 12(10):2478-2488, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Bracco, Annalisa, J. H. LaCasce, and Antonello Provenzale.

Velocity probability density functions for oceanic floats. *J.Phys.Oceanogr.*, 30:461-474, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Brink, K. H., R. C. Beardsley, J. Paduan, R. Limeburner, M. Caruso, and J. G. Sires.

A view of the 1993-1994 California Current based on surface drifters, floats, and remotely sensed data. *J.Geophys.Res.*, 105(C4):8575-8604, 2000.

Department of WHOI Author: PO.

Contribution Number: **9915**

Burns, Sean P., Djamel Khelif, Carl A. Friehe, Phil Hignett, Alastair G. Williams, Alan L. M. Grant, Jorg M. Hacker, Denise E. Hagan, Yolande L. Serra, David P. Rogers, E. Frank Bradley, Robert A. Weller, Chris W. Fairall, Steven P. Anderson, Clayton A. Paulson, and Peter A. Coppin.

Comparisons of aircraft, ship, and buoy radiation and SST measurements from TOGA COARE. *J.Geophys.Res.*, 105(D12):15627-15652, 2000.

Department of WHOI Author: PO.

Contribution Number: **10131**

Cenedese, C. and J. A. Whitehead.

Eddy-shedding from a boundary current around a cape over a sloping bottom.

J.Phys.Oceanogr., 30:1514-1531, 2000.

Department of WHOI Author: PO.

Contribution Number: **9987**

Chapman, David C.

Boundary layer control of buoyant coastal currents and the establishment of a shelfbreak front. *J.Phys.Oceanogr.*, 30:2941-2955, 2000.

Department of WHOI Author: PO.

Contribution Number: **10033**

Chapman, David C.

The influence of an alongshelf current on the formation and offshore transport of dense water from a coastal polynya.

J.Geophys.Res., 105(C10):24007-24019, 2000.

Department of WHOI Author: PO.

Contribution Number: **10226**

Chapman, David D.

A numerical study of the adjustment of a narrow stratified current over a sloping bottom. *J.Phys.Oceanogr.*, 30:2927-2940, 2000.

Department of WHOI Author: PO.

Contribution Number: **9994**

Feng, Ming, Roger Lukas, Peter Hacker, Robert A. Weller, and Steven P. Anderson.

Upper-ocean heat and salt balances in the Western Equatorial Pacific in response to the intraseasonal oscillation during TOGA COARE. *J.Clim.*, 13:2409-2427, 2000.

Department of WHOI Author: PO.

Contribution Number: **10036**

Fratantoni, David M., William E. Johns, Tamara L. Townsend, and Harley E. Hurlburt.

Low-latitude circulation and mass transport pathways in a model of the Tropical Atlantic Ocean. *J.Phys.Oceanogr.*, 30:1944-1966, 2000.

Department of WHOI Author: PO.

Contribution Number: **9816**

Ganachaud, Alexandre, Carl Wunsch, Jochem Marotzke, and John Toole.

Meridional overturning and large-scale circulation of the Indian Ocean.

J.Geophys.Res., 105(C11):26117-26134, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Gawarkiewicz, Glen G.

Effects of ambient stratification and shelfbreak topography on offshore transport of dense water on continental shelves.

J.Geophys.Res. Oceans, 105(C2):3307-3324, 2000.

Department of WHOI Author: PO.

Contribution Number: **9801**

Hogg, Nelson G.

Low-frequency variability on the western flanks of the Grand Banks.

J.Mar.Res., 58:523-545, 2000.

Department of WHOI Author: PO.

Contribution Number: **9995**

Huang, Rui Xin and Joseph Pedlosky.

Climate variability induced by anomalous buoyancy forcing in a multilayer model of the ventilated thermocline. *J.Phys.Oceanogr.*, 30:3009-3021, 2000.

Department of WHOI Author: PO.

Contribution Number: **10098**

Huang, Rui Xin, Mark A. Cane, Naomi Naik, and Paul Goodman.

Global adjustment of the thermocline in response to deepwater formation.

Geophys.Res.Lett., 27(6):759-762, 2000.

Department of WHOI Author: PO.

Contribution Number: **9968**

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J.Phys.Oceanogr., 30:2610-2626, 2000.

Department of WHOI Author: PO.

Contribution Number: **9979**

Huang, Rui Xin.

Parameter study of a continuously stratified model of the ideal-fluid thermocline.

J.Phys.Oceanogr., 30:1372-1388, 2000.

Department of WHOI Author: PO.

Contribution Number: **9868**

Huang, Rui Xin.

Climate variability inferred from a continuously stratified model of the ideal-fluid thermocline. *J.Phys.Oceanogr.*, 30:1389-1406, 2000.

Department of WHOI Author: PO.

Contribution Number: **9885**

Joyce, Terrence M., Clara Deser, and Michael A. Spall.

The relation between decadal variability of subtropical mode water and the North Atlantic oscillation. *J.Clim.*, 13:2550-2569, 2000.

Department of WHOI Author: PO.

Contribution Number: **9888**

LaCasce, J. H.

Floats and f/H . *J.Mar.Res.*, 58:61-95, 2000.

Department of WHOI Author: PO.

Contribution Number: **9945**

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Geostrophic turbulence over a slope. *J.Phys.Oceanogr.*, 30:1305-1324, 2000.

Department of WHOI Author: PO.

Contribution Number: **9650**

LaCasce, Joseph H.

Baroclinic Rossby wave speeds in a square basin.

J.Phys.Oceanogr., 30:3161-3178, 2000.

Department of WHOI Author: PO.

Contribution Number: **10029**

Lee, Craig M., Burton H. Jones, Kenneth H. Brink, and Albert S. Fischer.

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

Department of WHOI Author: PO.

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Lee, Sang-Ho and Robert C. Beardsley.

Correction to 'Influence of stratification on residual tidal currents in the Yellow Sea'.

J.Geophy.Res., 105(C5):11523, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Legg, Sonya and James C. McWilliams.

Temperature and salinity variability in heterogeneous oceanic convection.

J.Phys.Oceanogr., 30:1188-1206, 2000.

Department of WHOI Author: PO.

Contribution Number: **9820**

Lionello, P. and J. Pedlosky.

The role of a finite density jump at the bottom of the quasi-continuous ventilated thermocline. *J.Phys.Oceanogr.*, 30:338-351, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Montgomery, E. T. and R. W. Schmitt.

An automated method of processing data from profiling floats.

Oceans '00, 1:367-370, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Nuss, Wendell A., John M. Bane, William T. Thompson, Teddy Holt, Clive E. Dorman, F. Martin Ralph, Richard Rotunno, Joseph B. Klemp, William C. Skamarock, Roger M. Samelson, Audrey M. Rogerson, Chris Reason, and Peter Jackson.

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Bull.Am.Meteorol.Soc., 81(4):719-743, 2000.

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O'Dwyer, Jane, Richard G. Williams, Joseph H. LaCasce, and Kevin G. Speer.

Does the potential vorticity distribution constrain the spreading of floats in the North Atlantic?. *J.Phys.Oceanogr.*, 30:721-732, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Pedlosky, J.

The transmission and transformation of baroclinic Rossby waves by topography.

J.Phys.Oceanogr., :30:3077-3101, 2000.

Department of WHOI Author: PO.

Contribution Number: **10106**

Pedlosky, Joseph.

The transmission of Rossby waves through basin barriers.

J.Phys.Oceanogr., 30:495-511, 2000.

Department of WHOI Author: PO.

Contribution Number: **9874**

Pickart, Robert S.

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Department of WHOI Author: PO.

Contribution Number: **9965**

Pratt, L. J., K. R. Helfrich, and E. P. Chassignet.

Hydraulic adjustment to an obstacle in a rotating channel. *J.Fluid Mech.*, 404:117-149, 2000.

Department of WHOI Author: PO.

Contribution Number: **10034**

Pratt, Larry J., Heather E. Deese, Stephen P. Murray, and William Johns.

Continuous dynamical modes in straits having arbitrary cross sections, with applications to the Bab al Mandab. *J.Phys.Oceanogr.*, 30:2515-2534, 2000.

Department of WHOI Author: PO.

Contribution Number: **10067**

Richardson, P. L., A. S. Bower, and W. Zenk.

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Department of WHOI Author: PO.

Contribution Number: **9910**

Robbins, Paul, James Price, W. Brechner Owens, and William Jenkins.

On the importance of lateral diffusion for the ventilation of the lower thermocline in the subtropical North Atlantic. *J.Phys.Oceanogr.*, 30:67-89, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Schmitt, Ray and Ellyn Montgomery.

Salinity - a missing piece in the climate puzzle. *Backscatter*, Summer, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Spall, Michael A.

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J.Mar.Res., 58:97-116, 2000.

Department of WHOI Author: PO.

Contribution Number: **10023**

Spall, Michael A., Robert A. Weller, and Peter W. Furey.

Modelling the three-dimensional upper ocean heat budget and subduction rate during the Subduction Experiment.

J.Geophys.Res., 105(C11):26151-26166, 2000.

Department of WHOI Author: PO.

Contribution Number: **10172**

Spall, Michael A.

Buoyancy-forced circulations around islands and ridges.

J.Mar.Res., 58:957-982, 2000.

Department of WHOI Author: PO.

Contribution Number: **10152**

Stokey, Roger P.

Web-centric instrumentation: Controlling and monitoring a vertical profiler using a WWW browser. *Oceans '00*, 1:349-352, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Torres, Daniel J., Robert C. Millard, H. Marshall Swartz, and John M. Toole.

A comparison of LADCP and CTD performance on a slide-down-wire frame versus a standard CTD frame. *Oceans '00*, 1:359-366, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Valdes, James R. and James F. Price.

A neutrally buoyant upper ocean sediment trap.

J.Atmos.Oceanic Technol., 17:62-68, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Weller, Robert, John Toole, Michael McCartney, and Nelson Hogg.

Outposts in the ocean. *Oceanus*, 42(1):20-23, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Whitehead, J. A. and J. Pedlosky.

Circulation and boundary layers in differentially heated rotating stratified fluid.

Dyn.Atmos.Oceans, 31:1-21, 2000.

Department of WHOI Author: PO.

Contribution Number: **9822**

Whitehead, John A.

Stratified convection with multiple states. *Ocean Modell.*, 2:109-121, 2000.

Department of WHOI Author: PO.

Contribution Number: **10342**

Wiggert, J. D., B. H. Jones, T. D. Dickey, K. H. Brink, R. A. Weller, J. Marra, and L. A. Codispoti.

Corrigendum to 'The northeast monsoon's impact on mixing, phytoplankton biomass and nutrient cycling in the Arabian Sea' [Deep-Sea Research II 47 (2000) 1353-1385]. *Deep-Sea Res. II*, 47:3-4, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Wiggert, J. D., B. H. Jones, T. D. Dickey, K. H. Brink, R. A. Weller, J. Marra, and L. A. Codispoti.

The northeast monsoon's impact on mixing, phytoplankton biomass and nutrient cycling in the Arabian Sea. *Deep-Sea Res. II*, 47:1353-1385, 2000.

Department of WHOI Author: PO.

Contribution Number: **NONE**

Yang, Jiayang and James F. Price.

Water-mass formation and vorticity balance in an abyssal ocean circulation.

J.Mar.Res., 58:789-808, 2000.

Department of WHOI Author: PO.

Contribution Number: **9616**

Zhang, Jubao and Raymond W. Schmitt.

The impact of salt fingering on the thermohaline circulation under mixed boundary conditions. *J.Phys.Oceanogr.*, 30:1223-1231, 2000.

Department of WHOI Author: PO.

Contribution Number: **9971**

Zhang, Shuliang, Albert J. Plueddemann, Steven P. Anderson, and Robert A. Weller.

Surface fluxes and their influence on sea surface temperature in the western equatorial Pacific during the Coupled Ocean-Atmosphere Response Experiment.

J.Geophys.Res., 105(C3):6341-6357, 2000.

Department of WHOI Author: PO.

Contribution Number: **9978**

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November 1, 2001