WILLIAM K DEWAR
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Professional Preparation

the Ohio State University, Physics, BS, 1977
the Massachusetts Institute of Technology, M.S. in Physical Oceanography, 1980
the Massachusetts Institute of Technology -Woods Hole Oceanographic Institution Joint Program in Oceanography, Ph.D. in Physical Oceanography, 1983
the University of North Carolina, Chapel Hill, Postdoctoral Fellow in Physical Oceanography 1983

Appointments

August, 2001 – Present: Pierre Welander Professor of Oceanography at the Florida State University
July, 2010: Visiting Senior Scientist, Institute of Oceanology, Chinese Academy of Science, Qingdao, PRC.
September, 2005 – August, 2010: Associate Fellow, Northern Gulf Institute.
September, 2005 – May, 2010: Chair, Department of Oceanography.
July 2000 – 2004: Director, the Climate Institute, A Center of Excellence at FSU funded through the Cornerstone Foundation
August 1995 - Present: Professor, Department of Oceanography, Geophysical Fluid Dynamics Institute and Supercomputer Computations Research Institute, Florida State University, Tallahassee, Florida.
August 1990 - August 1995: Associate Professor, Department of Oceanography, Geophysical Fluid Dynamics Institute and Supercomputer Computations Research Institute, Florida State University, Tallahassee, Florida.
December 1985 - August 1990: Assistant Professor, Department of Oceanography, Geophysical Fluid Dynamics Institute and Supercomputer Computations Research Institute, Florida State University, Tallahassee, Florida.
Jan. 1, 1985 - Dec. 31, 1985: Assistant Professor, Research Faculty, the University of North Carolina, Chapel Hill, North Carolina.

Five Selected Relevant Products

Fabregat, A., WK Dewar, T. Ozgokmen, A. Poje and N. Wienders, Large eddy simulations of thermal, bubble and hybrid plumes, ***Ocean Modelling***, 2015, 16-28.
Dewar, WK, J. Schoonover, TJ McDougall and R. Klein, Semicompressible Ocean Thermodynamics and Boussinesq Energy Conservation, ***Fluids***, 2016, doi:10.3390/fluids1020009.
Fabregat, A., A. Poje, T. Ozgokmen and WK Dewar, Effects Of Rotation On Turbulent Buoyant Plumes In Stratified Environments, ***Journal of Geophysical Research,*** 2016, doi:10.1002/2016JC011737.
Fabregat, A., A. Poje, T. Ozgokmen and WK Dewar, Dynamics of Multiphase Plumes with Hybrid Buoyancy Sources in Stratified Environments, ***Physics of Fluids***, 2016, submitted.

Fabregat, A., B. Deremble, N. Wienders, A. Stroman, A. Poje, T. Ozgokmen and WK Dewar, Rotating 2d Point Source Plume Models with Application to Deep Water Horizon, ***Ocean Modelling***, 2016, submitted.

Five Other Selected Products

Dewar, WK, J. Schoonover, TJ McDougall and WR Young, Semi-compressible ocean dynamics, ***Journal of Physical Oceanography***, 2015, 149-156.

Hooper, J, M Baringer, LS St Laurent, D Nowacek and WK Dewar, Dissipation Processes in the Tongue of the Ocean, ***Journal of Geophysical Research***, 2016, 3159-3170.

Jiao, Y. and WK Dewar, The energetics of centrifugal instability, ***Journal of Physical Oceanography***, 2015, 1554-1573.

Deremble, B., N. Wienders and WK Dewar, Potential vorticity budgets in the North Atlantic Ocean, *Journal of Physical Oceanography*, 2014, 165-278, DOI:10.1175/JPO-D-13-087.1.

Hogg, A., WK Dewar, P. Berloff and M. Ward, Kelvin wave hydraulic control induced by interactions between vortices and topography, ***Journal of Fluid Mechanic***s, 2011, 194-208.

Synergistic Activities

Oct. 2005-May 2010 Chair, Dept. of Oceanography

Developer of multiphase model for use in the MITgcm

Developer of diapycnal mixing scheme for use in the MICOM/HYCOM model

Developer of Cheapaml, a module for computing boundary fluxes for the MITGCM

APROPOS workshop attendee for the future of physical oceanography