

Ocean Electric Field for Oceanography

Thomas B. Sanford
Applied Physics Laboratory and School of Oceanography
University of Washington
1013 NE 40th Street
Seattle, Washington 98105
Phone: (206) 543-1365 fax: (206) 543-6785 email: sanford@apl.washington.edu

Award Number: N00014-08-1-1278

LONG-TERM GOALS

The long-term goals are to provide advice to ONR, promote graduate education in navy relevant fields and advance the use of motionally induced electric and magnetic field for basic and applied studies.

APPROACH

The SECNAV/CNO Chairs in Oceanographic Sciences periodically meet with the CNR to discuss ocean research issues and opportunities and to provide comments on ONR policies and activities. Kevin Taylor and Nate Lauffenburger are graduate students supported on this grant; both are engaged in ONR-supported research projects.

WORK COMPLETED

- Joined other Chairs in meeting with CNR, RADM Carr 18 August 2011 in San Diego, CA
- Supported the education and research of two graduate student in UW School of Oceanography
- Conducted two field experiments, ASWEET and LatMix with partial support from this grant
- Prepared a paper for publication with partial support from this grant

PUBLICATIONS (wholly or in part supported by this grant)

Sanford, T. B., J. F. Price and J. B. Girton (2009). Upper ocean response to Hurricane Frances (2004) observed by profiling EM-APEX floats, *J. Phys. Oceanogr.*, **41**, 1041-1056.

Szuts, Zoltan B., and Thomas B. Sanford, Observations of vertically-averaged velocity in the North Atlantic Current. *Deep-Sea Res. II* (submitted)

Terker, S.R., T.B. Sanford, J.H. Dunlap and J.B. Girton, The EM-POGO: A simple, absolute velocity profiler, *Deep-Sea Res. II* (submitted)

Sanford, T.B., Spatial structure of thermocline and abyssal internal waves. *Deep-Sea Res. II* (submitted)

HONORS/AWARDS/PRIZES

None