

VITA

NAME: **DOUGLAS S. LUTHER**

CITIZENSHIP: USA

EDUCATION: Ph.D. (Oceanography) 1980 Joint Program in Oceanography
Massachusetts Institute of Technology/
Woods Hole Oceanographic Institution
B.S. (Geophysics) 1973 Massachusetts Institute of Technology
B.S. (Elec. Eng.) 1973 Massachusetts Institute of Technology

POSITIONS HELD:

1993-date Professor of Oceanography
SOEST, University of Hawaii at Manoa, Honolulu, Hawaii
1995-2000 Chairman, Division of Physical Oceanography
SOEST, University of Hawaii at Manoa, Honolulu, Hawaii
1990-1993 Associate Research Oceanographer
Scripps Institution of Oceanography, La Jolla, California
1990-1991 Resident Visitor
Physics Branch, AT&T Bell Laboratories, Murray Hill, N.J.
1982-1990 Assistant Research Oceanographer
Scripps Institution of Oceanography, La Jolla, California
1980-1982 Postgraduate Research Oceanographer, SIO

PROFESSIONAL ACTIVITIES SINCE 1993:

2002-2004 Member, Dynamics of Earth and Ocean Systems (DEOS) Steering
Committee (www.COREOcean.org/DEOS).
1995-date Senior Fellow, Joint Institute for Marine and Atmospheric
Research, National Oceanic and Atmospheric Administration and the
University of Hawaii at Manoa
1996-2001 Council Member, Joint Institute for Marine and Atmospheric
Research, National Oceanic and Atmospheric Administration and the
University of Hawaii at Manoa
1997-date Associate Editor, *Journal of Physical Oceanography*
1997-2002 Oversight Editor, American Geophysical Union Book Board
1995-2000 Corresponding Member, International Association of Geodesy
Special Study Group 5.173, 'Interaction of the Atmospheres and
Oceans with the Earth's Rotational Dynamics'
1995-1999 Member, World Climate Research Prog., CLIVAR Upper Ocean Panel
1991-1997 Editor, *Reviews of Geophysics*
1991-1997 Member, San Diego Supercomputer Center Executive Committee
1987-1997 Member, San Diego Supercomputer Center Steering Committee

January 24, 2004

- 2004 Organized and convened (with R. Pinkel and M. Levine) special session OS28 - Internal Tides and Deep Ocean Mixing, AGU Ocean Sciences Meeting, Portland, Oregon, 26-30 January, 2004.
- 2004 Invited Working Group Moderator, DEOS/ORION International Science Planning Workshop on Observational & Interactive Oceanography, San Juan, Puerto Rico, 4-8 January, 2004. Co-Chairs: Oscar Schofield and Meg Tivey. Sponsors: NSF, CORE. (<http://www.coreocean.org/Dev2Go.web?id=249051&rnd=7768>)
- 2003 Invited participant, Cabled Regional Observatory Workshop, San Francisco, Calif., 7-9 October, 2003. Co-Chairs: Michael Purdy and Dave Karl. Sponsors: NSF, CORE. (http://www.geo-prose.com/cabled_wksp/)
- 2003 Co-convener, Symposium JSS03 at IUGG2003, Sapporo, Japan, 30 June to 11 July, 2003. Symposium title: "Long-Term In Situ Ocean Observatories and Observations". (<http://www.jamstec.go.jp/jamstec-e/iugg/index.html>)
- 2003 Member, Executive Committee, 3rd International Workshop on Scientific Use of Submarine Cables and Related Technologies, 25-27 June 2003, Tokyo, Japan. (<http://seasat.iis.u-tokyo.ac.jp/SSC03/>)
- 2003 Chief Scientist, R/V Melville Leg 10 (6/10-15/03) of Centennial Expedition.
- 2003 Invited participant, NEPTUNE Pacific Northwest Workshop, Portland State University, Oregon, 23-24 April, 2003. Chair: Bruce Howe. (http://www.neptune.washington.edu/pub/workshops/PNW_Workshop/index.html)
- 2002 Invited Speaker, Workshop on Global Bathymetry for Oceanography, Geophysics and Climatology. Scripps Institution of Oceanography, La Jolla, Calif., 24-26 October, 2002. Conveners: David Sandwell, Walter Smith, Sarah Gille, John Orcutt. Sponsors: NSF, NASA, NOAA, IGPP Green Foundation. (<http://topex.ucsd.edu/workshop>)
- 2002 National Science Foundation, Ocean Sciences Review Panel, 20-24 May, 2002
- 2002 Organized and convened (with R. Pinkel, J. Ledwell and M. Levine) special session OS05 - Maintaing Deep Ocean Stratification, ASLO/AGU Ocean Sciences Meeting, Honolulu, Hawaii, 11-15 February, 2002.
- 2002 Organized and convened (with R. Pinkel, J. Ledwell and M. Levine) special session OS06 - Oceanic Internal Tides, ASLO/AGU Ocean Sciences Meeting, Honolulu, Hawaii, 11-15 February, 2002.
- 2001 Invited Reviewer of the National Tsunami Hazard Mitigation Program (Invitation by Dr. E.N. Bernard, Director, PMEL). Review occurred August 7, 2001. The NTHMP, completing its first five years, was being reviewed for possible continuation for an additional five years. Five year budget: \$77M.
- 2000 Invited Session Chair, Symposium on Seafloor Observatories, Key Largo, Florida. Organized by the Ocean Studies Board of the National Research Council and by Dr. William Ryan, chairman of the Committee on Seafloor Observatories, 10-12 January, 2000. Sponsor: NSF.
- 1999 Invited speaker, Workshop on Ocean Bottom Pressure Variability, 13-15 April, 1999, Royal Society, London, England. Organized by Dr. Carl Wunsch, MIT, and Dr. Victor Zlotnicki, JPL. Sponsored by NASA.
- 1999 Invited speaker, Equatorial Theoretical Panel Meeting to Honor Professor

- Taroh Matsuno on the 33rd anniversary of the publication of his seminal paper on "Quasi-geostrophic Motion in the Equatorial Area." 22-24 March, 1999, Honolulu, HI. Sponsored by JIMAR/IPRC.
- 1999 Invited speaker, 3rd Technical Committee Meeting of the International Experiment on Ocean CO₂ Sequestration, Honolulu, 18-19 February, 1999.
- 1999 Invited speaker, 11th 'Aha Huliko'a Hawaiian Winter Workshop on Internal Wave Modeling, Honolulu, HI, 19-22 January, 1999
- 1997 Invited panel leader (1 of 8) and co-author of the "Advances and Primary Research Opportunities in Physical Oceanography Studies (APROPOS)" Workshop - An NSF-sponsored workshop on the future of physical oceanography, 15-17 December 1997, Monterey, CA.
- 1997 Convenor, Symposium on Circulation, fluxes and dynamics of the Southern Ocean, 1997 IAMAS/IAPSO Joint Assembly, Melbourne, Australia, 1-9 July, 1997.
- 1997 Invited participant, International Sea Level Workshop for the design of a Global Network of Tide Gauge Stations to support Prediction of Climate Variability at all Time Scales and for the Detection of Long Term Sea Level Change, NOAA, Honolulu, HI, 10-11 June, 1997.
- 1997 National Science Foundation, Ocean Sciences Review Panel, May, 1997
- 1997 Chief Scientist, R/V Melville Leg 6 (3/6-4/7/97) of Sojourn Expedition.
- 1996 Invited Speaker, Plenary Meeting, U.S. Contribution to the International Program on Climate Variability and Prediction (CLIVAR), San Antonio, Texas, 10-12 June, 1996
- 1996 Co-Chairman (w/C.P. Mullen) of session titled "Circulation and Transport in Western Boundary Currents", AGU Ocean Sciences Meeting, San Diego, Calif., 12-16 February, 1996.
- 1995 Chairman, Local Organizing Committee, XX1st General Assembly of the International Association for the Physical Sciences of the Oceans, Hilton Hawaiian Village Hotel, Honolulu, Hawaii, 5-12 August, 1995
- 1995 Invited speaker, 8th 'Aha Huliko'a Hawaiian Winter Workshop on Topographic Effects in the Ocean, Honolulu, HI, 17-20 January, 1995
- 1995 Chief Scientist, R/V Melville Leg 11 (3/18-4/16/95) of Westward Expedition.
- 1994 Participant, WOCE/ACCP Meeting on Circulation and Variability of the North Atlantic, Geophysical Fluid Dynamics Laboratory, Princeton, NJ, May 11-13, 1994.

EDUCATIONAL ACTIVITIES SINCE 1993:

Courses Taught: Intro. to Ocean Waves (Lecture course; 9 times in 1994-2003)

Co-advisor & dissertation committee member for Claude Lumpkin, UH/SOEST M.S. rec'd 1995.

Advisor & dissertation committee chairman for Reka Domokos, UH/SOEST M.S. rec'd 1996.

Advisor & dissertation committee chairman for Reka Domokos, UH/SOEST Ph.D. rec'd 2003.

Advisor for Martin Guiles, UH/SOEST Ph.D. student.

Advisor for Thomas Declodt, UH/SOEST M.S. student.

Ph.D. Dissertation committee member for:

Werner Morawitz, UCSD/SIO Ph.D. received 1995;

Michelle Morris, UCSD/SIO Ph.D. received 1996;

Sheryl McCarthy, UH/SOEST Ph.D. received 1996;

Sean Kennan, UH/SOEST Ph.D. received 1997;

Xianbing Liu, UH/SOEST Ph.D. received 1998;

Shung Sheng Fu, UH/SOEST Ph.D. received 1998;

Claude Lumpkin, UH/SOEST Ph.D. received 1998;

Shaun Johnston, UH/SOEST Ph.D. received 2003;

Shuiming Chen, UH/SOEST Ph.D. received 2003

M.S. Dissertation committee member for:

Michael Sawyer, UH/SOEST M.S. received 1996;

Christina Munch, UH/SOEST M.S. received 1996;

Rebecca Reitmeyer, UH/SOEST M.S. received 1996;

Shuiming Chen, UH/SOEST M.S. received 1998;

Martin Guiles, UH/SOEST M.S. received 2003;

Michelle Eich, UH/SOEST M.S. received 2003;

Francois Ascani, UH/SOEST M.S. candidate;

Paulo Calil, UH/SOEST M.S. candidate.

Post-doctoral Fellowship Advisees:

Timothy Finnigan, 1999-2001;

Christopher Meinen, 2000-2002.

PROFESSIONAL SOCIETY MEMBERSHIPS:

American Association for the Advancement of Science

American Geophysical Union

American Meteorological Society

The Oceanography Society

PUBLICATIONS: Author or co-author of 37 refereed papers and 70+ unrefered presentations (e.g., technical reports, conference proc., published or unpublished abstracts).