

**CURRICULUM VITAE**  
**Raghu Murtugudde**

Department of Atmospheric and Oceanic Science  
Earth System Science Interdisciplinary Center  
University of Maryland  
College Park, MD 20742  
**Phone:** (301) 314-2622  
**Email:** ragu@essic.umd.edu

**EDUCATION**

**Columbia University, New York** Ph.D., Mechanical Engineering 1994  
Ph.D. Thesis: *Upstream Finite Difference Methods for an Isopycnal OGCM*  
Advisor: Profs. V. Prasad (Mechanical) and Mark A. Cane (Earth Science)

**University of Texas at Arlington** M.S., Aerospace Engineering 1987  
M.S. Thesis: *Hypersonic Shock Tunnel: Design and Performance Prediction*

**Indian Institute of Technology, Bombay** B. S. Aeronautical Engineering 1983  
B.S. Thesis: *Hinged Strakes: Flow visualization in a water tunnel.*

**EMPLOYMENT**

**The University of Maryland** Department of Atmospheric and Oceanic Science/Earth System Science Interdisciplinary Center

Professor	07/08-Present
Executive Director, Chesapeake Bay Forecast Project	06/07-Present
Associate Professor (tenured)	03/03-06/08
Affiliate Associate Professor (Department of Geology)	01/08-06/08
Affiliate Professor (Department of Geology)	07/08-Present
Associate Research Scientist (Based at NASA-GSFC)	05/00-12/02
Assistant Research Scientist (Based at NASA-GSFC)	05/97-4/00
Research Associate (Based at NASA-GSFC)	04/96-4/97

**Indian Institute of Science, Bangalore.** Center for Oceanic and Atmospheric Science, and **Divecha Center for Climate Change**, Visiting Professor. 06/10-08/11

**Indian Institute of Tropical Meteorology, Pune, India.**  
Visiting Professor 01/11-06/11

**Universities Space Research Association/NASA-GSFC**  
Visiting Scientist (Director: A. J. Busalacchi) 01/94-3/96

**Columbia University, New York** 07/89-12/93  
Graduate Research Fellow, Dept. of Mechanical Engineering

**Aerospace Research Center, UT Arlington** 08/84-06/89  
Research Associate, Department of Aerospace Engineering  
*Design, blueprints, remote control for a Hypersonic Shock Tunnel. Research on hypersonic shock/boundary layer interactions, optimization of supersonic nozzle inlet with MOC.*

## Honors and Awards

- **Press Mentions at <http://essic.umd.edu/~ragu/pressmentions.html>**
  - NOAA Global Climate Change Fellowship 1994
  - Aldo Leopold Environmental Leadership Fellow, Stanford Univ. 2011
  - Tao Beta Pi-National Engineering Honor Society Inducted 1987
  - TOKTEN Expert (CSIR-Government of India and UNESCO) 2000
  - CMPS-Outstanding Faculty Mentor for STAND Internship Research 2006
  - General Research Board Summer Award – University of Maryland 2007
  - General Research Board Research Support Award – Univ of Maryland 2007
  - Center for Teaching Excellence-Lilly Fellow – Univ of Maryland 2008
  - Keynote Speaker, PORSEC-2002, Bali, Indonesia. 2002
  - Keynote Speaker, Internat. Symp. CLIVAR Indian Ocean, Pune, India 2004
  - Opening Visionary Keynote talk, EUROCEANS, Cadiz, Spain 2007
  - Honoree, Celebration of Scholarship and Research, UMD 2009-2012
  - Invited Guest Editor, J. of IISc, Earth System Science and India, 2009-10
  - ~~Prof. Pisharoty~~ Distinguished Lecture. Pune, India. 2011
  - Keynote Speaker, International Risk Management Symposium, NTU Singapore 2011
  - WMO Day Lecture, IITM-Pune, India. 2011
  - Prof. B. Karunakaran Endowment Lecture , CESS-Trivendrum, Kerala, India. 2011
  - Institute Colloquium Speaker, IIT-Bombay: Predictions to Solutions – Role of S&T In facing Climate Challenges. Mumbai, India. 2011
  - Keynote Speaker, Opportunities and Challenges in Monsoon Prediction
- "k'c"Ej cpi kpi 'Erko cvg'ó"KVO 'I qnf gp'Lwdkrgg."KVO/Rwpg."Kf kc0"4234"  
 "É"Y guwp'Tqwpf "Vcdrg'Ugtkgu'Ngewtg."Vj g'P guwp'Kpukwng'ht "Gpxktqpo gpvri"  
 "Uwf kgu0Wpkkgtukv\ 'qh'Y kueqpukp/O cf kqp0"4234"  
 "É"F kirkpi wkuj gf 'Ngewtg."Qegcp'Uekpegu0CQI U/CI WLqkv"  
 "Cuogo dn\ .'Ukpi cr qtg'"4234"

## Service

### **Professional Societies**

Member of - American Geophysical Union, American Meteorological Society

### **National and International Organizations**

- Interim SST Science Team (2009-present).
- US and International Monsoon, Contributing member (1999-2001).
- IGBP OCEANS, Transition Team Member, 2003-2004.
- IGBP-CLIVAR, Scientific Steering Committee, 2004-2011.
- ORION Modeling Panel, Member, 2005-present.
- NCAR Ecosystem working group, 2005.
- First Institute of Oceanography, China, Advisory member, 2005-present.
- CLIVAR Atlantic TACE Modelling Working Group (2006-present)
- AGU Organizing Committee for Ocean Sciences 2006, 2005-2006.
- TRMM (Tropical Rain Measuring Mission) Science Team (97-03),
- EOS Interdisciplinary Science Team (97-05).
- TOPEX/Poseidon/Jason Science Working Group (97-present).
- CLIVAR/Pan-American Implementation Panel (2002-204).
- CLIVAR Working Group 4, Co-Chair (2005-present).
- Session Chair/Co-Chair: Fall AGU 2002; AMS Air-sea Interactions 2004; WPGM 2004; Ocean Sciences 2006 (4 sessions); CLIVAR Indian Ocean 2004; WPGM 2006; AGU Joint Assembly 2007; WPGM 2008; Fall AGU 2008; US-Iran Academies Meeting on New Tools for Management of Environmental Crises, Haikko, Finland, 2009; Ocean Sciences 2010, CCMP 2010, EGU 2011, WCRP 2011, Planet Under Pressure 2012, Ocean Sciences 2012.
- Co-organizer, EPIC-2004 Workshop, Seattle, WA.
- Ocean Color Science Team (1996-2002).
- Sea Ice and Salinity Working Group (1998-2002).
- Adaptation and Mitigation: Role of Climate Services, AMS-Public Private Partnership Forum. Washington DC, April 2010.
- Co-convener, Lecturer - IMBER ClimECO3 Summer School - A View Towards Integrated Earth System Models: Human-nature Interactions in the Marine World. July 2012, Ankara, Turkey.
- GODAE-Ocean View Marine Ecosystem and Prediction Task Team, 2011-Present.