

CURRICULUM VITAE

VARAVUT “VAR” LIMPASUVAN

Department of Marine Science: Coastal and Marine Systems Science
School of the Coastal Environment, Coastal Carolina University

TEACHING/RESEARCH INTERESTS Atmospheric dynamics; climate variability; scientific computing

EDUCATION

- UNIVERSITY OF WASHINGTON**, Seattle, WA 09/1992–06/1998
Doctor of Philosophy, *Atmospheric Sciences*
Dissertation: *Tropical Dynamics near the Stratopause: Two-day Wave and Its Relatives*
- CALIFORNIA INSTITUTE OF TECHNOLOGY**, Pasadena, CA 09/1990–06/1992
Bachelor of Science (with honors), *Mechanical Engineering*
Engineering Honor Society: *Tau Beta Pi*
- OCCIDENTAL COLLEGE**, Los Angeles, CA 09/1987–06/1990
Bachelor of Arts (*Magna Cum Laude*), *Physics*
Liberal Arts and Physics Honor Societies: *Phi Beta Kappa* and *Sigma Pi Sigma*

RELEVANT EXPERIENCE AND APPOINTMENTS

- COASTAL CAROLINA UNIVERSITY**, Conway, SC
Full Professor 08/2009–
Program Advisor of the Dual-Degree Engineering Program 08/2003–09/2019
Associate Professor 08/2005–06/2009
Assistant Professor 08/2000–06/2005
- NATIONAL SCIENCE FOUNDATION**, Alexandria, VA
Program Director, Climate and Large-Scale Dynamics Program 09/2019–
Atmospheric and Geospace Sciences, Geoscience Directorate
- JOINT INSTITUTE FOR THE STUDY OF THE ATMOSPHERE AND OCEAN**, Seattle, WA
Post-Doctoral Research Associate through Princeton University’s 06/1998–06/2000
Geophysical Fluid Dynamics Laboratory (GFDL) Consortium
- UNIVERSITY OF WASHINGTON**, Department of Atmospheric Sciences, Seattle, WA
Research Assistant 09/1992–06/1998
Lead Teaching Assistant (Trains other Teaching Assistants) 09/1993–09/1995
Teaching Assistant (Taught Introduction to Atmospheric Sciences) 01/1993–03/1993
- UNIVERSITY OF RHODE ISLAND**, Graduate School of Oceanography, Kingston, RI
National Science Foundation Summer Undergraduate 06/1991–09/1991
Research Fellowship in Oceanography

RESEARCH AND TEACHING AWARDS

- Fulbright Research Fellowship** 2017–2018
Fulbright U.S. Core Scholar Program Research
Norway University of Science and Technology (NTNU) & University of Oslo
Project: “Atmospheric Tidal Response during the Wintertime Polar Vortex Breakdown”

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CURRICULUM VITAE: **Var Limpasuvan**

Kerns Palmetto Professorship Endowment Coastal Carolina University Kerns Palmetto Foundation	2012–2017
Advanced Study Program Faculty Fellowship University Center for Atmospheric Research	2010
HGTC Distinguished Scholar-Teacher Lecturer Award Coastal Carolina University Provost's Office and HGTC	2009
South Carolina Young Scientist Award for Excellence in Scientific Research South Carolina Academy of Sciences and Office of the Governor (Mark Sanford)	2007
NASA Group Achievement Award Contributions by the NASA Aura Microwave Limb Sounder team	2006
NASA Faculty Research Fellowship NASA Jet Propulsion Laboratory (Pasadena, CA)	2002 & 2005
Public Engagement Award for Research Service to the NASA JPL Office of the Provost, Coastal Carolina University	Spring 2005
Outstanding Research Work with NASA Scientists Award American Society of Engineering Education	2003
South Carolina Governor's Distinguished Professor South Carolina Commission on Higher Education (Columbia, SC)	2001
Coastal Carolina University Distinguished Teacher of the Year Selected by the Coastal Carolina University student government association	2001

RECENT PUBLICATIONS [*indicates CCU Ph.D. Student]

- Orsolini, Y. J., J. Zhang*, **V. Limpasuvan**, 2022: Abrupt Change in the Lower Thermospheric Mean Meridional Circulation During Sudden Stratospheric Warmings and Its Impact on Trace Species, *Journal of Geophysical Research – Atmospheres*, doi:10.1029/2022JD037050.
- Zhang, J.*, Y. J. Orsolini, **V. Limpasuvan**, J. Ukita, 2022: Impact of Impact of the Pacific sector sea ice loss on the sudden stratospheric warming characteristics, *npj Climate and Atmospheric Science*, doi:10.1038/s41612-022-00296-w.
- Rhodes, C. T.*, **V. Limpasuvan**, Y. J. Orsolini, 2021: Eastward-Propagating Planetary Waves Prior to Sudden Stratospheric Warming, *Journal of Geophysical Research*, doi:10.1029/2020jd033696.
- Zhang, J.*, **V. Limpasuvan**, Y. J. Orsolini, P. Espy, R. Hibbins, 2021: Climatological Westward-Propagating Semidiurnal Tides and their Composite Response to Sudden Stratospheric Warmings in SuperDARN and SD-WACCM-X, *Journal of Geophysical Research*, doi:10.1029/2020jd032895.
- Seidai, N., T. O. Sato, T. Yamada, T. Fujinawa, K. Kuribayashi, T. Manabe, L. Froidevaux, N. J. Livesey, K. A. Walker, J. Xu, F. Schreier, Y. J. Orsolini, **V. Limpasuvan**, N. Kuno, Y. Kasai, 2020: Validation of the Vertical Profiles of HCl over the Wide Range of the Stratosphere to the Lower Thermosphere Measured by SMILES, *Atmospheric Measurement Techniques*, doi:10.5194/amt-2020-105.
- Guttu, S., Y. J. Orsolini, F. Stordal, **V. Limpasuvan**, D. R. Marsh, 2020: WACCM simulations: Decadal Winter-to-Spring Climate Impact on Middle Atmosphere and Troposphere from Medium Energy Electron Precipitation, *Journal of Atmospheric and Solar-Terrestrial Physics*, doi:10.1016/j.jastp.2020.105382.
- Hibbins, R. E., P. J. Espy, Y. J. Orsolini, **V. Limpasuvan**, R. J. Barnes, 2019: SuperDARN Observations of Semidiurnal Tidal Variability in the MLT and the Response to Sudden Stratospheric Warming Events, *Journal of Geophysical Research*, doi:10.1029/2018JD030157.