

L. Kiranmayi

Assistant Professor

School of Earth, Ocean and Climate Sciences
Indian Institute of Technology Bhubaneswar
Bhubaneswar, India

Phone Number: +91 6742576120

E mail: kiranmayi@iitbbs.ac.in

EDUCATIONAL QUALIFICATIONS

- **PhD (Atmospheric Science)** in Faculty of Engineering, Center for Atmospheric and Oceanic Sciences (CAOS), Indian Institute of Science, Bangalore, India.
- **M.Sc. (Engineering)**, Faculty of Engineering, Center for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bangalore, India.
- **B.Tech (Civil Engineering)** from Sri Venkateswara University College of Engineering, Tirupathi, India.

RESEARCH POSITIONS

- **Assistant Professor** : Indian Institute of Technology Bhubaneswar, Bhubaneswar, INDIA
- **Post-doc Research Associate** : U.S. Department of Energy's Pacific Northwest National Lab, USA
- **Post-doc Research Associate** : Department of Atmospheric Science, Colorado State University, USA
- **Research Associate** : CAOS, Indian Institute of Science, Bangalore, INDIA

RESEARCH INTERESTS

- ◆ **Atmospheric Science:** Climate Dynamics, Intra-Seasonal Variations, Tropical Meteorology, Monsoons, Climate Modeling, Clouds and Convection, Atmospheric Radiation.
- ◆ **Fluid Dynamics:** Turbulent shear flows, Experimental and Computational Fluid Dynamics.

PUBLICATIONS

Peer Reviewed Journals – Published/In Press

1. V. Vinoj, P. J. Rasch, Hailong Wang, Jin-Ho Yoon, **L. Kiranmayi**, B. Singh and Po-Lun Ma, (2013), A rapid dusty west Asian link to Indian summer monsoon rainfall. *Nature GeoScience*. (in press).
2. **Kiranmayi L**, Ruby Leung, et al. (2014) Dependence of ITCZ structure on model resolution and dynamical core in aqua-planet simulations. *J. Climate*. Doi:10.1175/JCLI-D-13-00269.1.
3. **Kiranmayi L** and Eric D Maloney, (2011) Intraseasonal Moist static energy budget in reanalysis data, *J. Geophys. Res.* Vol. 116, D21117, 12 PP. doi: 10.1029/2011JD016031.
4. **Kiranmayi L** and Eric D Maloney (2010), Understanding intraseasonal variability in an aquaplanet GCM, *Journal of Meteor. Soc. of Japan*. DOI:10.2151/jmsj.2011-302.
5. **Kiranmayi. L** and Bhat G S. (2009) Equatorial modes observed in atmospheric variables, *J. Earth Sys. Sci.*, 118, 181-192.
6. **Kiranmayi. L** and Bhat G S. (2008) Quasi-periodic, Global Oscillations in Sea Level Pressure on Intraseasonal Timescales, *Climate Dynamics*, 31, DOI 10.1007/s00382-008-0413-7.
7. Ramkumar, K. Muralimohan, **L. Kiranmayi** and Y. B. Srinivasa (2006) Discrete generation cycles in the tropical moth “*Opisina arenosella*”, *Current Science*, Vol 91, No 6, 811-816. (Interdisciplinary study with colleagues at Institute of Wood Science and Technology, Bangalore)

Conference Proceedings

8. **Kiranmayi L** et al. Factors influencing the simulated ITCZ structure in varying model resolutions and dynamical cores. *Gordon Research Conference*, New London, USA, July 2013.
9. Feng Z, SM Hagos, **Kiranmayi Landu**, CN Long, and C Zhang. Role of detrained moisture from ITCZ in initiating deep convection in Madden-Julian Oscillation. *Gordon Research Conference*, New London, USA, July 2013.
10. Hagos SM, Z Feng, **Kiranmayi Landu**, and CN Long. Two-day waves and the stretched lifecycle of convection during DYNAMO: Observations and high resolution Hindcast Simulation. *GASS/MJO Meeting*, Singapore, Singapore on June 4, 2013.
11. Hagos SM, Z Feng, **Kiranmayi Landu**, CN Long, and KS Lim. Application of radar observations to the evaluation and improvement of cloud permitting Limited Area Model simulations. *MJO Data and Analysis Workshop*, Kohalo Coast, HI on March 17, 2013.
12. Eric D Maloney and **Kiranmayi Landu**, MJO Initiation in an Aquaplanet GCM: Is It Relevant to DYNAMO?, *AOGS – AGU Joint Assembly*, Singapore, August 2012.
13. **Kiranmayi. L** and Eric D Maloney, Intraseasonal variability sensitivity tests in an aquaplanet general circulation model, *American Meteorological Society Meeting*, Seattle, USA, 2011.
14. **Kiranmayi. L** and Eric D Maloney, The moist static energy budget on intraseasonal time scales as observed in NCEP reanalysis data, Abstract No. A51H-0207 *American Geophys. Union, Fall meeting*, San Francisco, USA, December 2009.
15. **Kiranmayi. L** and Bhat G S, Near global oscillations in Pressure in intraseasonal time scales, *Celebrating monsoon*, Indian Institute of Science, Bangalore, INDIA, July, 2007.
16. **Kiranmayi. L** and Bhat G S, Wavelet analysis of TRMM data to identify seasonal changes in MJO, *National Space Science Symposium (NSSS)*, Mahatma Gandhi University, Kottayam, INDIA, February, 2004.
17. **Kiranmayi. L**, Scalar Concentration measurements in liquid flow using PLIF technique. *Symposium on Advances in Fluid Mechanics (SAFM)*, Jawaharlal Nehru Center for Advanced Scientific Research, Bangalore, INDIA, July, 2001.

THESIS REPORTS

1. **PhD (Engineering)**
Title: “**Intraseasonal Variations in Sea Level Pressure and Association with Tropical Convection**”
2. **M.Sc. (Engineering)**
Title: “**Measurement of Scalar Concentration in Liquid Flows using Laser Induced Fluorescence Technique**”

PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**Membership:**

- American Meteorological Society
- American Geophysical Union

Journal Peer Reviewer:

- Environmental Research Letters
- Journal of Climate
- Annales Geophysicae
- Journal of Applied Meteorology and Climatology

Internal Reviewer

- Pacific Northwest National Laboratory