



EARTH SYSTEM SCIENCE ORGANIZATION (ESSO)
Ministry of Earth Sciences (MoES), Government of India
INDIAN INSTITUTE OF TROPICAL METEOROLOGY
Dr. Homi Bhabha Road, Pashan, Pune-411008



International Workshop
on
Representation of Physical Processes in Weather and Climate Models
(INTROSPECT 2017)
13 - 16 February, 2017

Background

The improvement of numerical models for predicting weather and climate at variety of space and time scales have taken place globally. However, there are still area of challenges which need to be addressed with better understanding of physical processes based on observations and subsequently representation of the processes through improved parameterization. This is required even more as the models are continuously being used at higher horizontal and vertical resolutions. The major challenges to the present day modelling community is, a) the need of parameterization schemes which is scale aware, b) schemes that will be stochastic and also multi-scale in nature and c) a unified scheme of physical processes. The debate of cloud resolving approach or hybrid approach (with parameterized convection and grid scale cloud microphysics) and its impact on model fidelity will be emphasized.

Themes

1. Scale aware convective parameterization.
2. Grey zone problem and quasi-equilibrium closure
3. PDF based unified parameterization
4. Constraining GCM parameterization with observation

More details:

Website: www.tropmet.res.in/introspect
contact: Dr. P. Mukhopadhyay
e-mail: introspect2017@tropmet.res.in

Invited Speakers

Prof. Rodam Narasimha, JNCASR, Bengaluru
Prof. David A. Randall, Colorado State Univ., USA
Prof. Graeme Stephens, JPL, NASA, USA
Dr. Ziad Haddad, JPL, NASA, USA
Dr. W.K. Tao, GSFC, NASA, USA
Dr. Peter Bechtold, ECMWF, UK
Dr. M. Rajeevan, MoES, India
Prof. G.S. Bhat, IISc, Bengaluru
Dr. R. Krishnan, IITM, Pune
Prof. Ravi S. Nanjundiah, IISc, Bengaluru
Prof. Brian Mapes, University of Miami, USA
Prof. Boualem Khouider, Univ. of Victoria, Canada
Dr. Hiraoki Miura, Univ. of Tokyo, Japan
Prof. In-Sik Kang, SNU, Korea
Dr. Sung-Su Park, SNU, Korea
Dr. Georg Grell, NCAR, USA
Dr. Andrew Gettelman, NCAR, USA
Prof. James Kinter, COLA, GMU, USA
Dr. Saulo R. Freitas, CPTEC, Brazil
Dr. Katherine Thayer-Calder, NCAR, USA

Venue:

Meghdoot Complex
Indian Institute of Tropical Meteorology
Pashan, Pune, India

Organised by: ESSO - IITM

Participation Deadline:
30 November 2016