

Megha-Tropiques International Conference
Indian Space research Organisation, Bangalore, India
23-25 March 2009

Day 1 : 23 march 2009

Registration (09:30-10:00)

Inaugural Session (10:00-11:00)

Tea (10:40-11:00)

Session 1 : Megha-Tropiques Science

11:00 – 11:30 MT: Scientific Rationale – J Srinivasan, IISc

11:30 – 12:00 MT: Scientific Challenges – Remy Roca, LMD

Session 2 : Megha-Tropiques Mission Overview

12:00-12:30 MT Sensors – G Raju, ISRO / N Karouche, CNES

12:30-13:00 MT orbit specificity for retrieval – M Capderou, LMD

Lunch (13:00-14:00)

Session 3 Rainfall and Water cycle

14:00 – 14:30 Dual-pol radars for Rain microphysics – V Chandrasekhar, USA

14:30 – 15:00 AMMA and MT can help each other – J Redelsperger, CNRS

15:00 – 15:30 Cloud particle properties from 157 GHz - Defer Eric, France

Tea (15:30-16:00)

16:00 – 16:30 Tropical Climate Variability – J P Duvel, France

16:30 – 17:00 Synergy of INSAT and MT geophysical parameters
and scientific issues – P K Pal, SAC

17:00 – 18:00 Poster Session

Day 2 : 24 march 2009

Session 4 : Science and Applications (Radiation budget / Cyclone/ Monsoon)

09:30 – 09:50 Radiation budget over monsoon region – V Sathiyamoorthy, SAC

09:50 – 10:10 Surface radiation budget – M Rajeevan, NARL

10:10 – 10:30 Land surface processes – B Bhattacharya, SAC

10:30 – 11:00 GPS-RO and related science results – T Tsuda, Kyoto Univ

Tea (11:00-11:30)

11:30 – 11:50 Cyclone intensity with MW data – C M Kishtawal, SAC

11:50 – 12:10 MT data to understand role of convection in TTL – B Legras, CNRS

12:10 – 12:35 Mesoscale modeling needs – J P Chaboureau, France

12:35 – 13:00 Indian Ocean variability based on model and
campaign data – J Vialard, France

Lunch (13:00-14:00)

Session 5 : Contributed papers

14:00 – 16:30 Contributed papers (15 min each)

- 1) J Grandpiex, LMD – Convective system life cycle in climate models
- 2) A Maitra, Univ. of Calcutta, India – Rain structure based on ground based drop-size distribution and Earth space propagation measurements
- 3) G Seze, LMD - Global cloud cover parameters obtained from geostationary data in the frame of the MEGHA-Tropiques mission with CALIPSO lidar observations.
- 4) K. Rajeev, SPL, India - KALPANA-1-VHRR and CALIPSO observations of semi-transparent cirrus clouds over the Indian subcontinent and surrounding oceans
- 5) F Karbou, Meteo-France - Global 4D-Var assimilation and forecast experiments using land surface emissivities from AMSU-A and AMSU-B: Overview and plans for the assimilation of SAPHIR and MADRAS measurements
- 6) T R Sreerexha, UKMO - Operational assimilation of satellite sounding radiances in 4D-var for global and regional NWP
- 7) V John, Met Off Hadley Centre - Upper tropospheric humidity data set from operational microwave sounders

Tea (16:30-17:00)

16:30 – 18:00 Poster Session

18:00 – 19:00 Evening Lecture

Dinner (19:30-21:00)

Day 3 : 25 March 2009

Session 6 : Retrieval & Validation

- 09:30 – 09:50 Data products & Ground segment – S Choudhury, SAC
- 09:50 – 10:10 Rain & parameters from MADRAS – R M Gairola/AK Varma, SAC
- 10:10 – 10:30 Status of rainfall retrieval – N Viltard, CNRS
- 10:30 – 10:50 Rainfall Retrieval from passive MW sensors – A Mehta, NASA
- 10:50 – 11:10 Radiation fluxes from SCARAB – O Chomette, CNRS

Tea (11:10-11:30)

- 11:30 – 11:50 Humidity profile from SAPHIR – B S Gohil, SAC
- 11:50 – 12:10 Humidity retrieval – F Aires, CNRS
- 12:10 – 12:35 Validation plan for MT – B Simon, SAC
- 12:35 – 13:00 French Cal/Val Plan – M Gosset, CNRS

Lunch (13:00-14:00)

Session 7 : MT and GPM Mission

- 14:00 – 14:30 Rainfall Retrieval challenges – Eric Smith, USA
- 14:30 – 15:00 GPM-Br Retrieval Studies – C F Angelia, Brazil
- 15:00 – 15:30 GPM in JAXA – T Nakazawa, MRI, Japan
- 15:30 – 16:00 GPM validation aspects – R Kakar, NASA
- 16:30 – 17:00 Possible instruments for space mission dedicated to water cycle studies after MT – N Viltard/ R Roca, CNRS

Tea (17:00-17:30)

Session 8: Concluding Session

- 17:30 – 18:30 Panel discussion and Closing