



The Abdus Salam
International Centre
for Theoretical Physics



2nd Workshop on Organisation and Maintenance of Tropical Convection and the Madden Julian Oscillation

DESCRIPTION:

The first workshop on Organisation and Maintenance of Tropical Convection and the Madden Julian Oscillation was held at ICTP in March 2006. It is the right time, 20 years after, to reflect the past accomplishments and lessons learned, identify remaining challenges, and outline future work.

MORE INFORMATION:

The workshop will address the following questions:

- What are the current gaps in our understanding of tropical multi-scale organised convection, the MJO and its global impact?
- What are the major barriers to advancing predictions of tropical multi-scale organised convection, the MJO and its global impact?
- What would be the most effective and efficient ways to integrate often siloed efforts of observations and modeling in the study of tropical multi-scale organised convection, the MJO and its global impact?
- What would be the optimal ways to use the modern technologies of observations, AI/ML, and HPC to advance information gathering, understanding, and model improvement of tropical multi-scale organised convection, the MJO and its global impact?

The workshop will cover the following topics:

- Observation of the Madden Julian Oscillation and field campaigns
- Modeling the Madden-Julian Oscillation (simple theoretical models, comprehensive Earth system models, and AI/ML models)
- MJO prediction and predictability from days to years, including interaction with other modes of variability.
- MJO's global and regional impacts

SPEAKERS:

Boualen Khouider, University of Victoria
Franco Molteni, Italia Meteo
Mitchell Moncrieff, NCAR (retired)
Andrew Robertson, Columbia University
Kunio Yoneyama, JAMSTEC



26 - 30 October 2026



Trieste, Italy



**Deadline:
31 March 2026**

DIRECTORS:

Kim Daehyum, Seoul National University (SNU), Republic of Korea
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Chidong Zhang, Pacific Marine Equipment Laboratory (PMEL), USA

LOCAL ORGANISER:

Adrian Tompkins, ICTP, Italy

FURTHER INFORMATION:



E-mail: smr4243@ictp.it

Web: <https://indico.ictp.it/event/11169/>

Female scientists are encouraged to apply

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Endorsed by the
World Weather Research Programme (WWRP)
of the WMO



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