



The Abdus Salam  
International Centre  
for Theoretical Physics



# Workshop on Tropical Climatology and Meteorology, from the Hadley and Monsoonal Circulation to Deep Convection and Biosphere-Atmospheric Interactions

## Description:

This workshop provides an overview of atmospheric convection and the broader dynamics of monsoon systems with a particular focus on the North American Monsoon.

## MORE DETAILS:

The workshop consists of 3 days of lectures, giving a basic overview of atmospheric thermodynamics, stability and moist convection on day 1, before moving onto the theory of monsoon dynamics and the role of convective mesoscale organization as components of monsoon systems. Day 3 of the lectures will introduce topics at a research level, including some of the recent ground-breaking global km-scale climate simulations. The last two days of the workshop give participants the opportunity to investigate some of the aspects of monsoons in observations and simulations in hands on sessions.

## TOPICS:

- Convection and its organization
- Modern theories of monsoons
- Focus on the North American Monsoon
- Monsoons in seasonal forecasts and CMIP

## SPEAKERS:

David Adams  
Simona Bordoni  
Christian Domínguez  
Spencer Hill  
Alejandro Jaramillo  
Arturo Quintanar  
Adrian Tompkins  
Cuauhtémoc Turrent  
Jorge Zavala



**20 - 24 January 2024**



**Universidad Nacional Autónoma de México  
Mexico City, Mexico**



**Deadline:  
18 December 2024**

## DIRECTORS:

David K. Adams , Universidad Nacional Autónoma de México  
Simona Bordoni, University of Trento

## ICTP SCIENTIFIC CONTACT:

Adrian Tompkins, ICTP

## FURTHER INFORMATION:



E-mail: [smr4053@ictp.it](mailto:smr4053@ictp.it)

Web: <https://indico.ictp.it/event/10818/>

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.

