CNRM, UMR 3589

SEMINAIRE CNRM

mercredi 22 mai 2024 à 11h

DIFFERENT FLAVOURS OF CONVECTION-CIRCULATION COUPLING IN THE TROPICS

par Vishal DIXIT
IIT Bombay

en salle Noilhan

Lien de la réunion : https://meteo.webex.com/meteo-fr/j.php?MTID=m7e084b2f9bfd83d94faba5e8178a1912
Numéro de la réunion :2 789 882 2100
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Abstract:

The interaction between convection and circulation in the tropics presents a complex puzzle in climate science. As we approach the equator, the Coriolis effect weakens, disrupting the geostrophic balance and complicating the relationship between convection and circulation. This talk highlights three examples using ERA5 reanalysis data to explore this phenomenon: 1) The persistence of not-so-weak temperature gradients near the equatorial Pacific, 2) The role of advective boundary layer dynamics in generating the Somali jet in the Indian Ocean, and 3) Contrasts in the timing between precipitating convection and corresponding vorticity structures near and away from the equator in the Indian Ocean.

Pour tout renseignement, contacter Y. Poirier (05 61 07 96 55)
Centre National de Recherches Météorologiques
42, Avenue G. Coriolis - 31057 Toulouse Cedex