

CTB

Seminar

11am -12 noon EST, 9 December 2015

NOAA Climate Test Bed Seminar Series

Speaker:

Prof. Cristiana Stan
Dept. of Atmos. Oceanic and Earth Sciences
George Mason University
Fairfax, VA

Time:

11 am -12 noon EST, 9 December 2015

Location:

National Center for Weather and Climate
Prediction, Conference Room 2155
5830 University Research Court
College Park, MD 20740

Remote Access:

[https://www1.gotomeeting.com/
join/714576893](https://www1.gotomeeting.com/join/714576893)
Meeting ID: 714-576-893
Conference call: 1-877-680-3341
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The Year of Tropics- Midlatitude Interactions and Teleconnections

ABSTRACT

The study of the general circulation of the atmosphere has been traditionally carried out by considering the regions of the tropics, mid-latitudes and high-latitudes as primarily separate components, with distinct dynamics and sources of variability. The mutual interactions between these components in the atmosphere and ocean on the seasonal and longer time scales has been well recognized.

In recent years there has been a greater appreciation of the importance of two-way interactions between the tropics and the mid- and high-latitudes on intraseasonal time scales. The teleconnections between the tropical and extra-tropical regions on subseasonal-to-seasonal time scales are emerging as a leading candidate to explain high-impact weather events in low- and mid-latitudes in a changing climate. They also seem to provide a source of predictability for the large-scale circulation of the mid-latitudes. In this presentation I will review the current state of knowledge on the teleconnections at intraseasonal time scales and describe a project with potential for advancing our understanding on this subject.

