

Speaker: Prof. Raghu Murtugudde, Professor & CBFS Executive Director, CMNS-Atmospheric & Oceanic Science, Earth System Science Interdisciplinary Center, University of Maryland, USA

Title of talk: "ITCZ, Tropical Atlantic and the Indian monsoon"

Date & Time: 24 Nov 2016, Thursday at 11:00 AM.

Venue: Varahamihira Hall

#### Abstract

CMIP5 models fail to capture the historic Indian monsoon trend and the future projections are reported to be dynamically inconsistent. East African monsoon is also argued to be unreliable in these models. It is clear that this likely implies an overall bias in the ITCZ and its role as a global conveyor of tropical variability. The tropical Atlantic has a zonal and a meridional mode of variability that are linked through the ITCZ. The zonal mode is shown to affect the Indian monsoon at Interannual timescales. The potential links between these pieces of the tropical climate system are discussed in the context of monsoon predictions and model biases.