



**DIVECHA CENTRE FOR CLIMATE CHANGE
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Divecha Centre for Climate Change Seminar

Title : “GFDL’s Climate and Earth System Modeling: From CMIP5 to CMIP6”

Speaker : Prof. V.Ramaswamy,
Director, NOAA/Geophysical Fluid Dynamics Laboratory,
and Professor, Atmospheric and Oceanic Science Program,
Princeton University, Princeton, New Jersey, USA

Venue : Centre for Atmospheric & Oceanic Sciences Seminar Hall

Date : Wednesday, 08 November 2017.

Time : 3: 30 pm.

Abstract: The World Climate Research Program’s Coupled Model Intercomparison Project (CMIP) has been a robust framework for conducting comparisons of the world’s models on a common reference frame through posing common model experiments for the world’s climate modeling centers to perform. Analyses of the CMIP simulations have provided key inputs into the IPCC Assessments (e.g., CMIP5 à IPCC AR5 (2013), and CMIP6, currently ongoing, expected to feed into IPCC AR6 (2021)). Over the past four years, GFDL has been analyzing the biases and deficiencies in our CMIP5-era models, and developing the next-generation Climate and Earth System Models for the CMIP6-era. The research has comprised a number of advances in the atmospheric, oceanic, biospheric, cryospheric, and ecosystem components, along with the integrative aspects to capture the realism and wholeness of the system. Observations and theoretical developments have enabled improved representations of processes and interactions in the Earth System, with resulting improvements in the simulation of key climate variables and phenomena. These hold the promise of better estimates of climate, and biogeochemical, feedbacks and sensitivity, and more insights into the central uncertainties.

All are Welcome