

## **Recent Changes in the Tropical Indo-Pacific, and Fidelity of the Coupled Models**

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In this talk, the relevance of the changing characteristics of the tropical Pacific coupled phenomena since the so called regime shift in late 1970s, will be briefly discussed. The talk will focus on the distinct teleconnections and processes of the recently occurring ENSO Modoki and those of the ENSO, and IOD, and discuss the ability of the state of art a semi-operational coupled climate MME system to predict these phenomena at different lead times. From the context of seamless prediction, which demands that any aspiring decadal prediction/climate change simulation model/system must, as a first order of requirement, predict the seasonal and interannual variations of the climate drivers such as ENSO. From this context, the challenges that the coupled MME throws, along with the progress made so far, in the domain of seasonal prediction gives us a perspective for our future plans of decadal prediction.