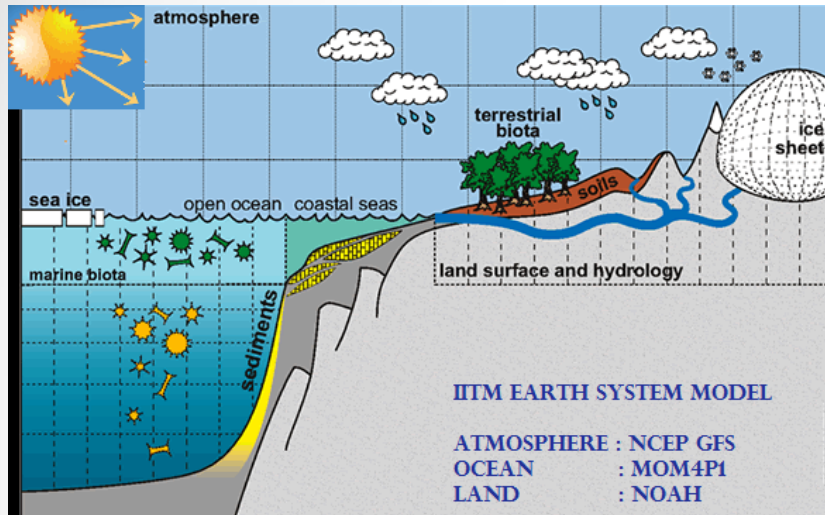


Status of IITM-ESM CMIP6 Simulations

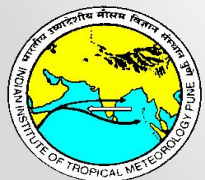


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Meteorology, India**

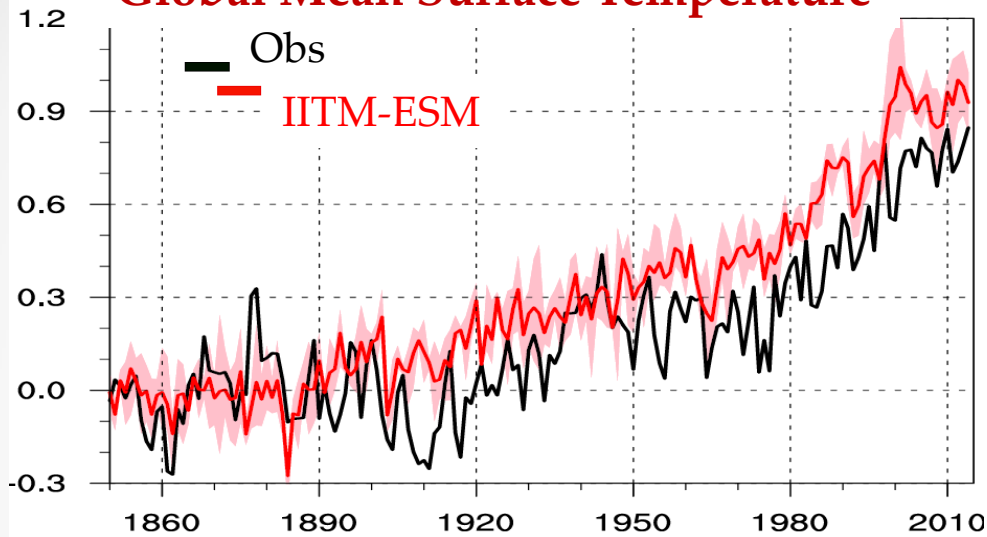
E-mail : swapna@tropmet.res.in

Exp	Status	Data Publishing
DECK	Completed	Published
CMIP6 Historical	Completed	Published
AMIP	Completed	Published
GMMIP	Completed	Published
Scenario MIP	Completed	Published
DAMIP	Completed	To be published
FAFMIP	Completed	To be published

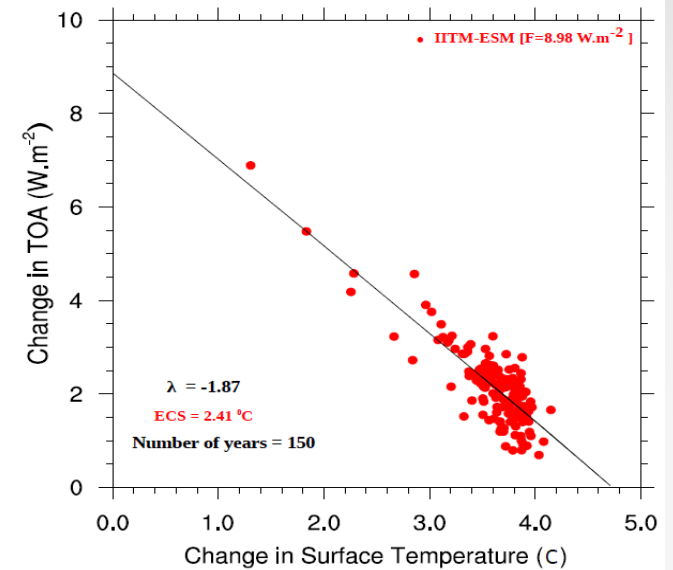


CMIP6 Historical Simulations

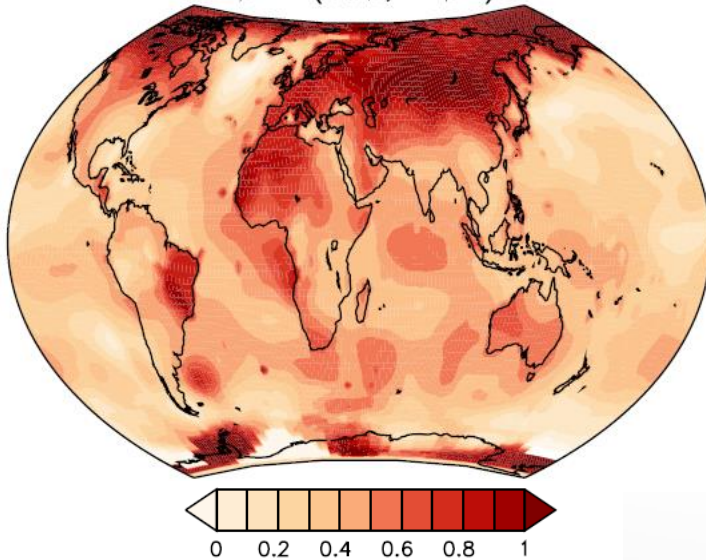
Global Mean Surface Temperature



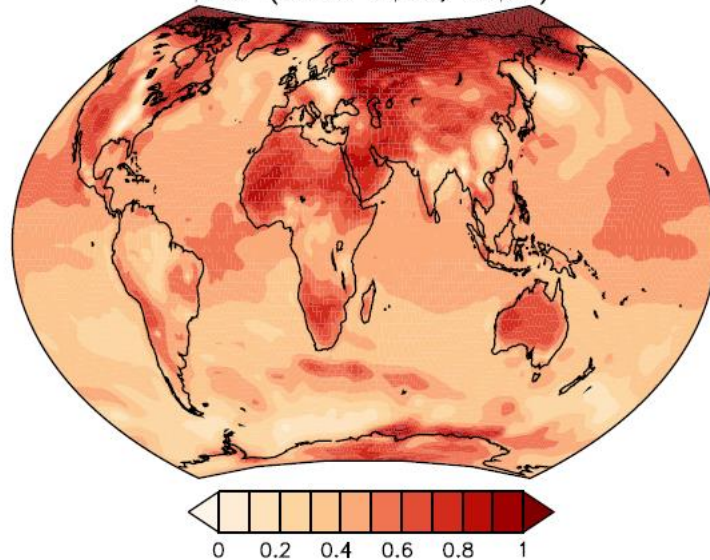
ECS 2.41C



SAT (Obs, HIST)

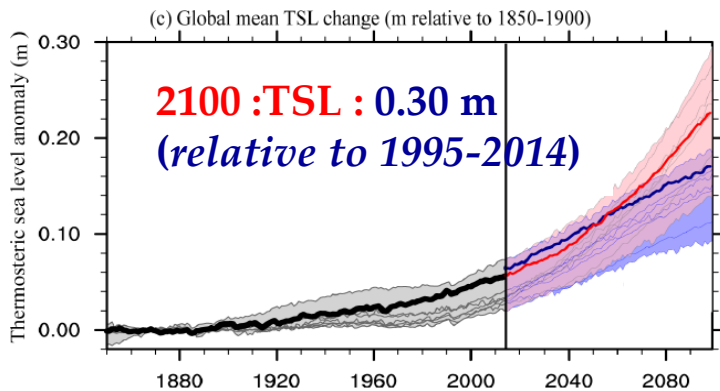
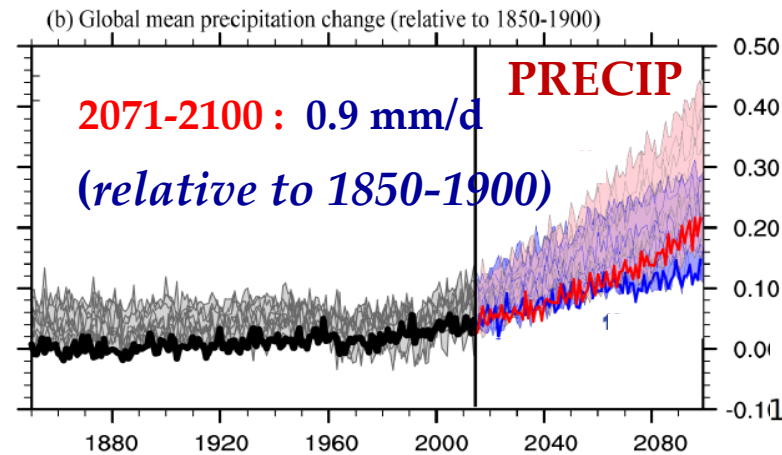
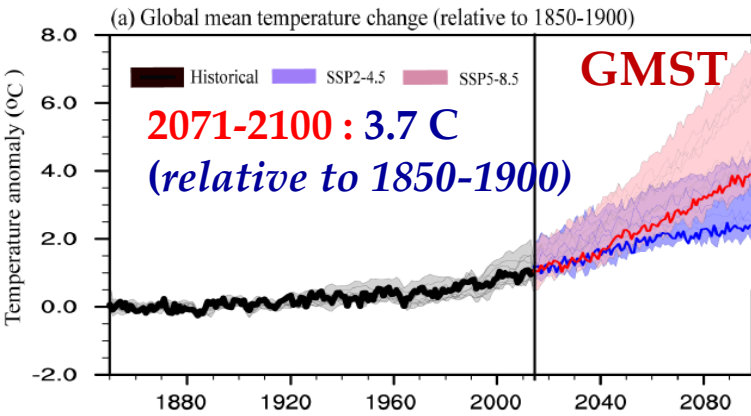


SAT (IITM-ESM, HIST)



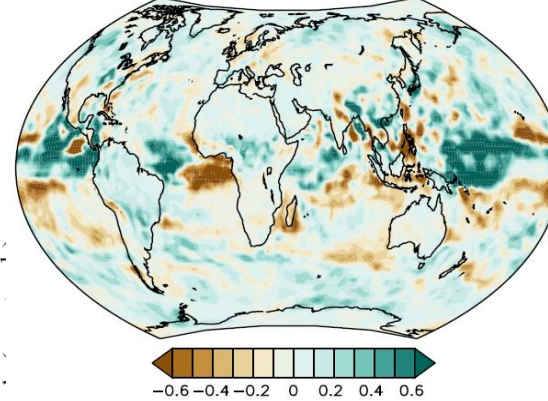
CMIP6 Historical & Projected changes over the 21st Century

Assessment of Climate Change over the Indian Region, Ministry of Earth Sciences, Govt. of India, 2020

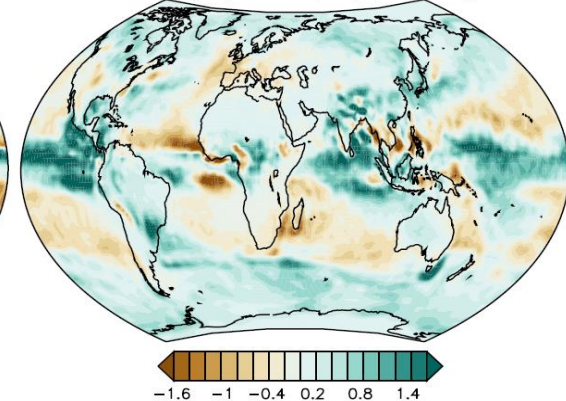


Precipitation (JJAS)

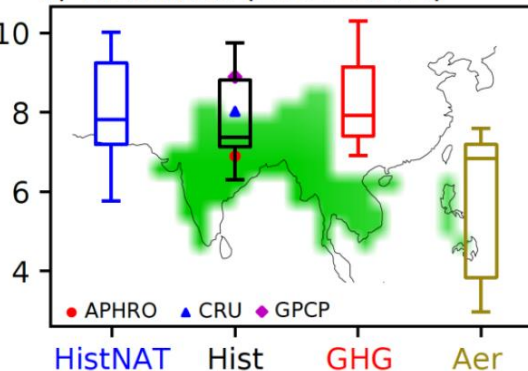
Precip (IITM-ESM, HIST)



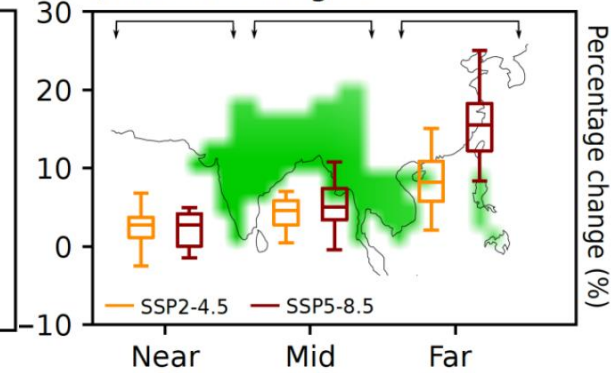
Precip (IITM-ESM, SSP585)



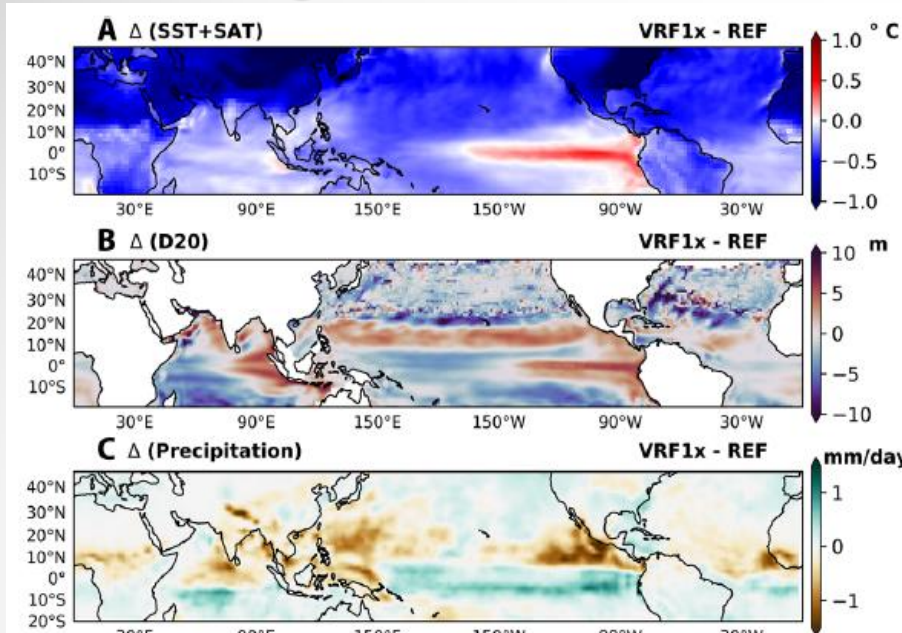
a) Historical (1951-2014)



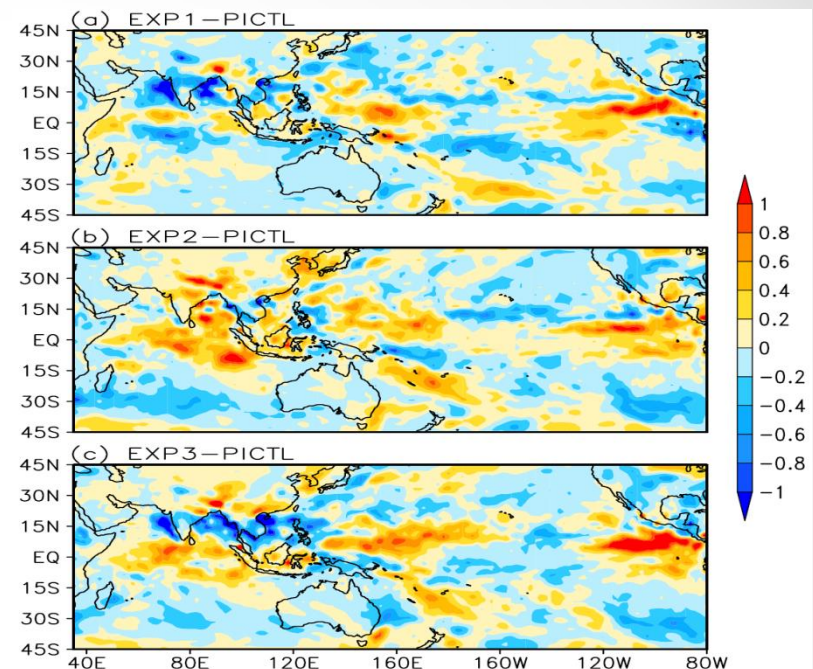
b) Future changes



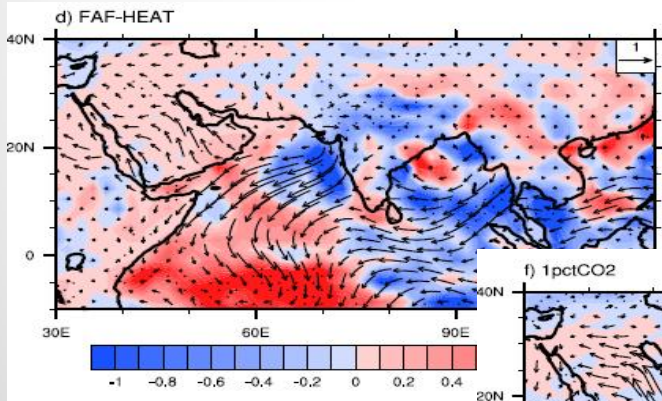
Insights from DAMIP, GMMIP and FAFMIP



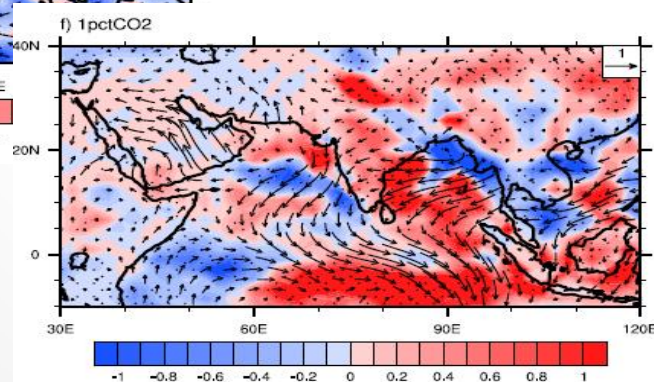
Singh et al., Science Adv., 2020



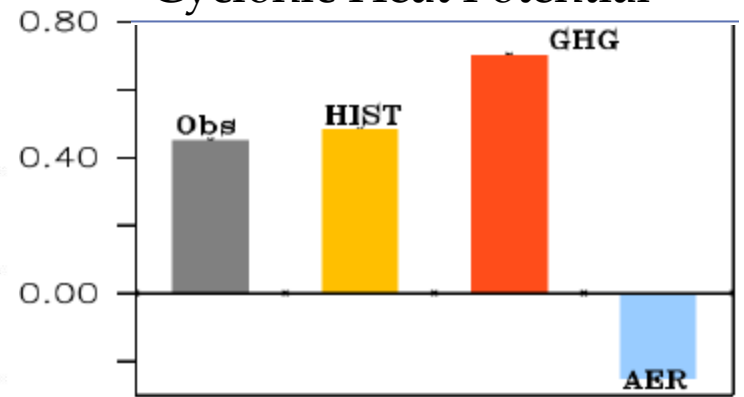
Choudhary et al., Clim.Dyn. 2020



Sandeep et al.,
Clim. Dyn., 2020



Cyclonic Heat Potential



Swapna et al., GRL (under rev.)

Plans for CMIP7

New Dynamical
Core

CISM-Ice sheet
Model

High Resolution

**THANK
YOU!**