

SIMULATING THE EFFECT OF IOD OVER EAST AFRICA RAINFALL USING SPEEDY.

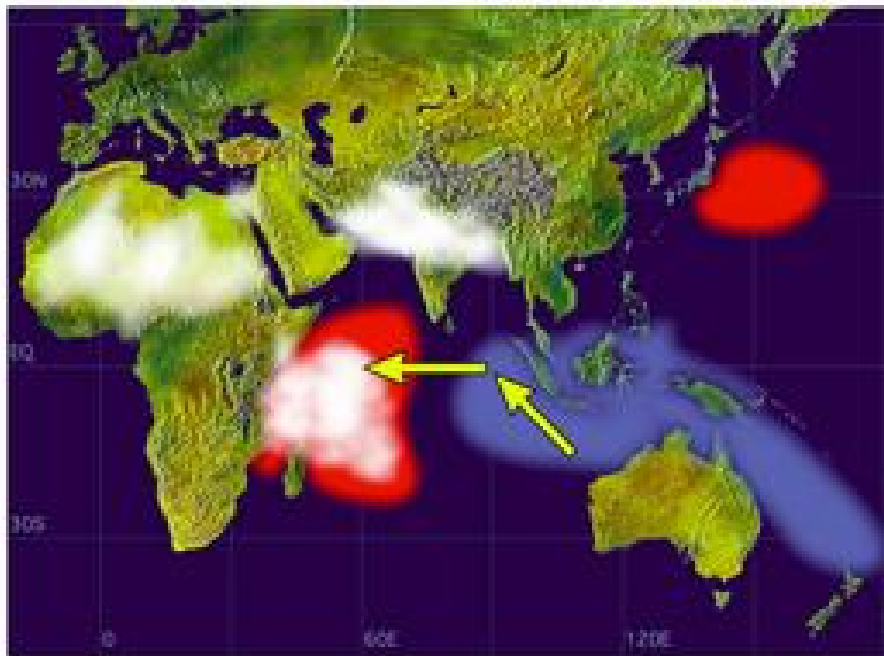
Hussen H, Catalina R, Addisu S and Laleh S.

ICTP Workshop on Teleconnections in the Present
and Future Climate

Indian Ocean Dipole

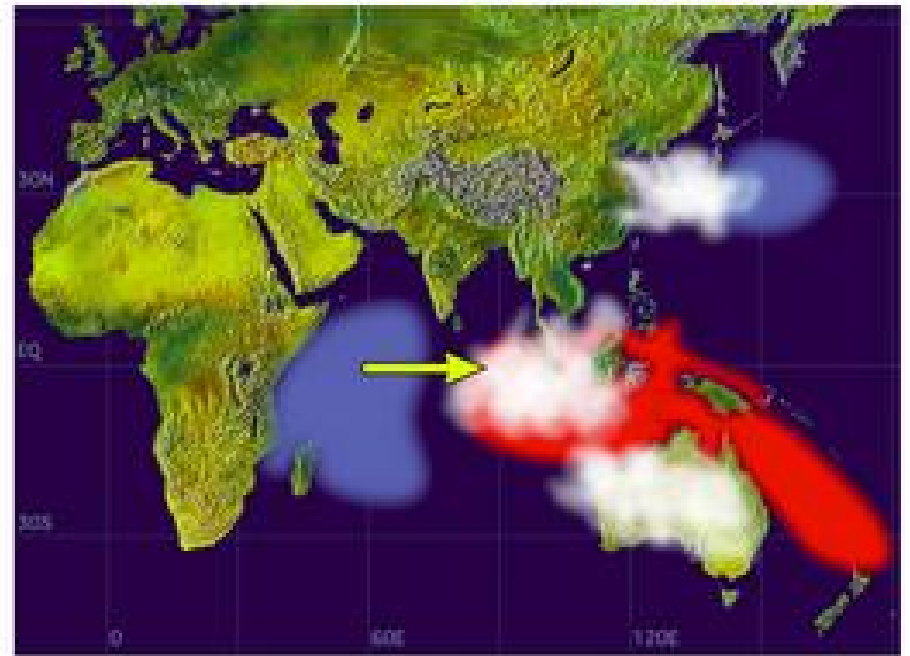
Schematic of a positive IOD event.

Positive Dipole Mode



Schematic of a negative IOD event.

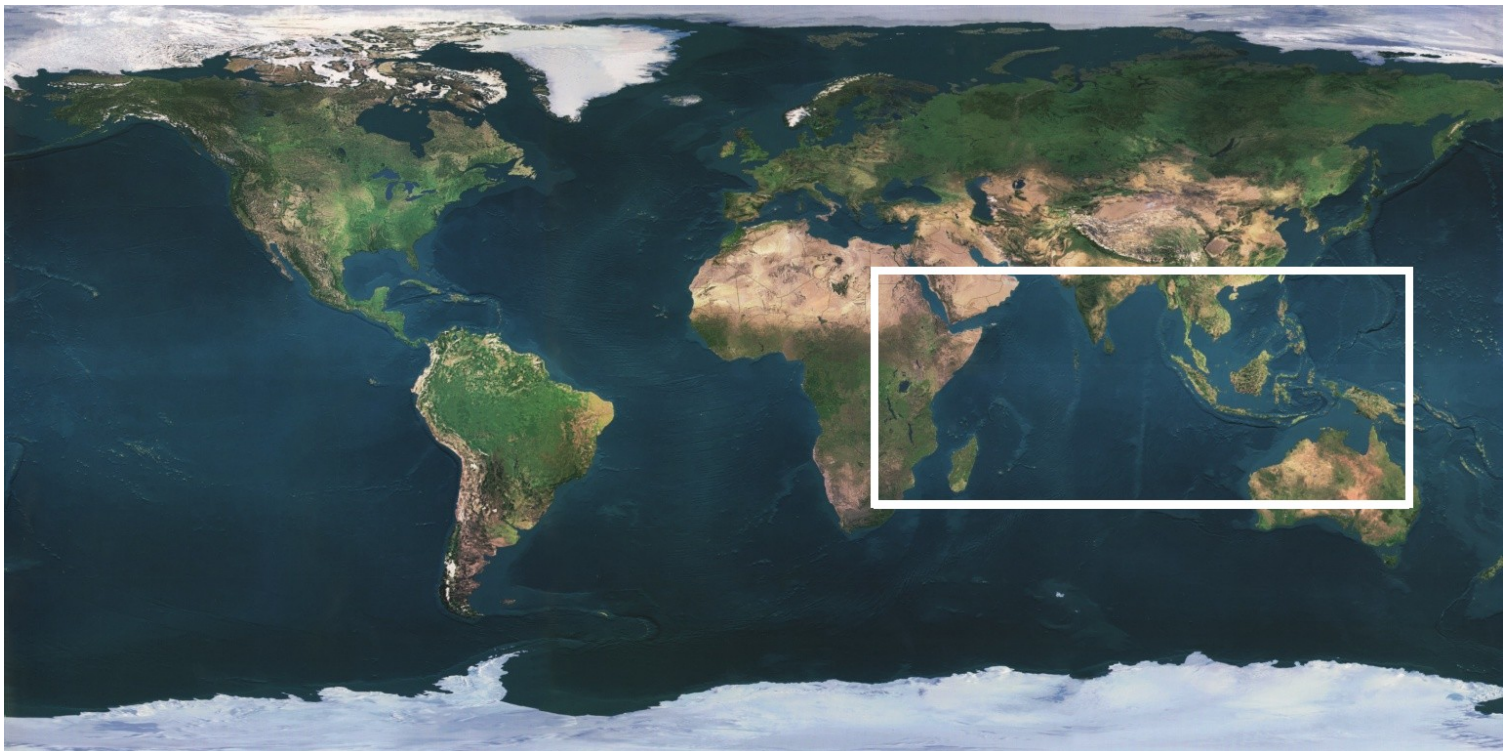
Negative Dipole Mode



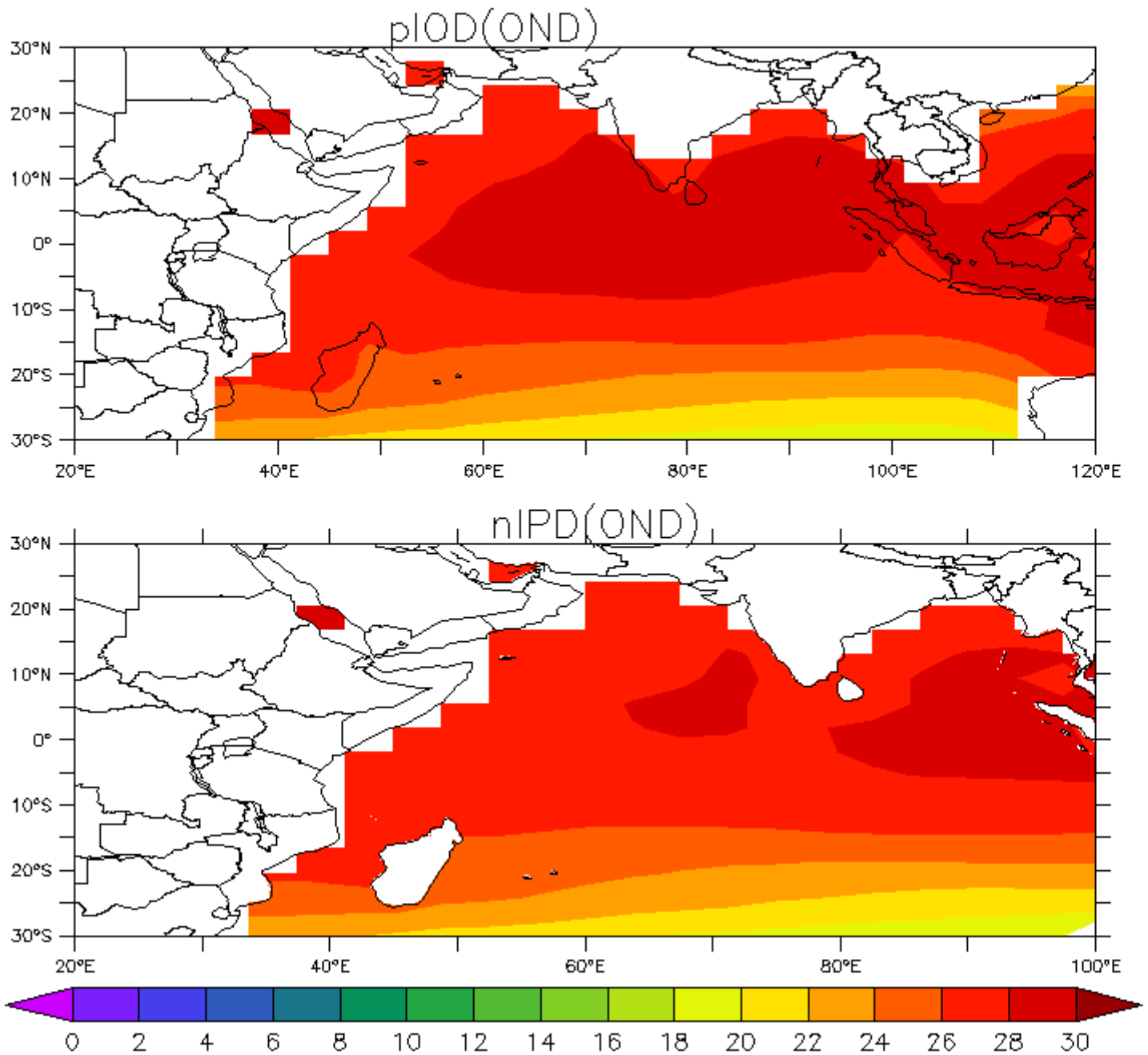
SST anomalies are shaded (red color is for warm anomalies and blue is for cold). White patches indicate increased convective activities and arrows indicate anomalous wind directions during IOD events.

SPEEDY Experiment

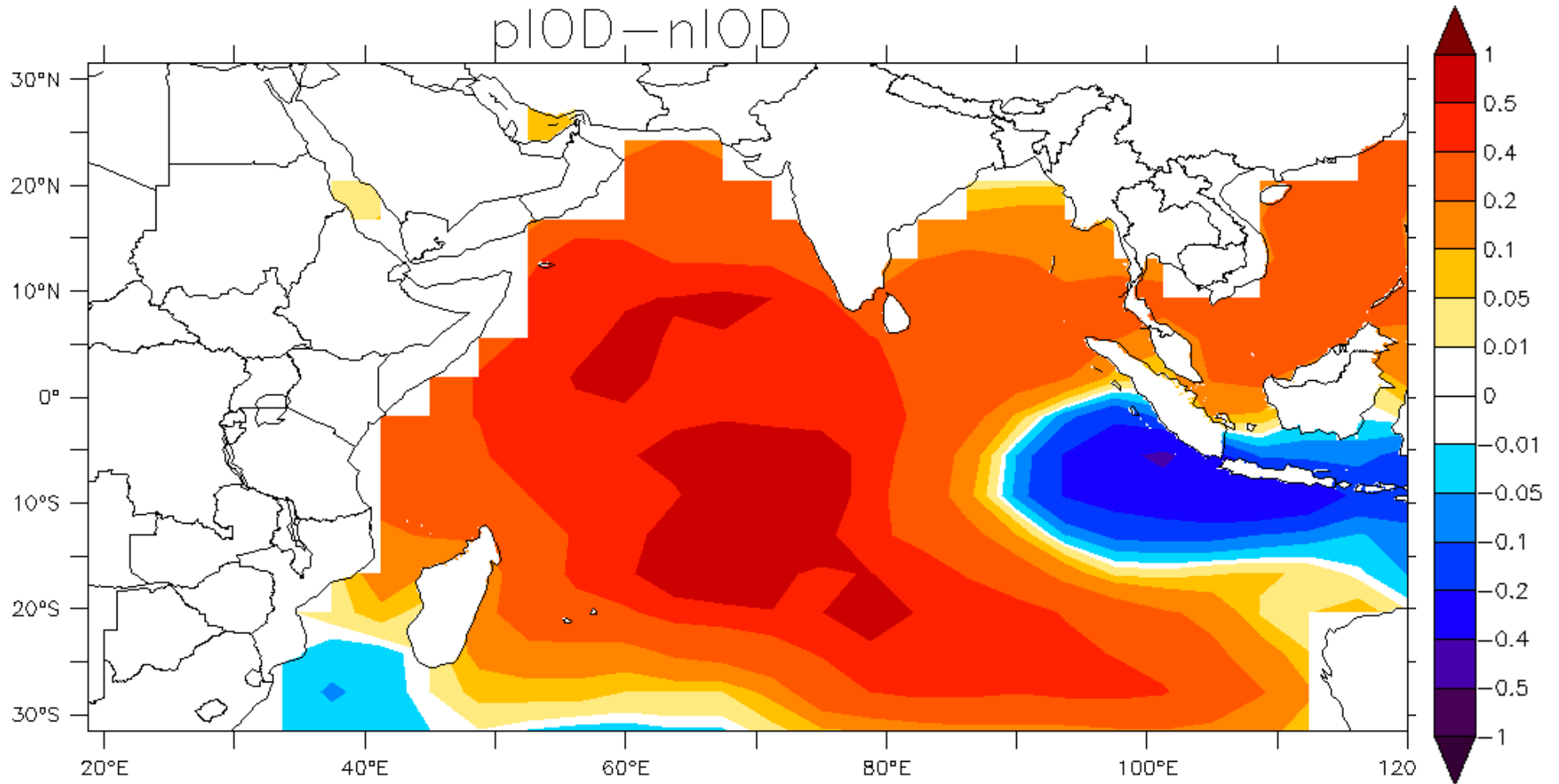
- Setup 2 experiments by imposing:
 - Positive IOD (100 ensemble members).
 - Negative IOD (100 ensemble members).
- over the region between 40°E – 120°E and 30°N – 30°S



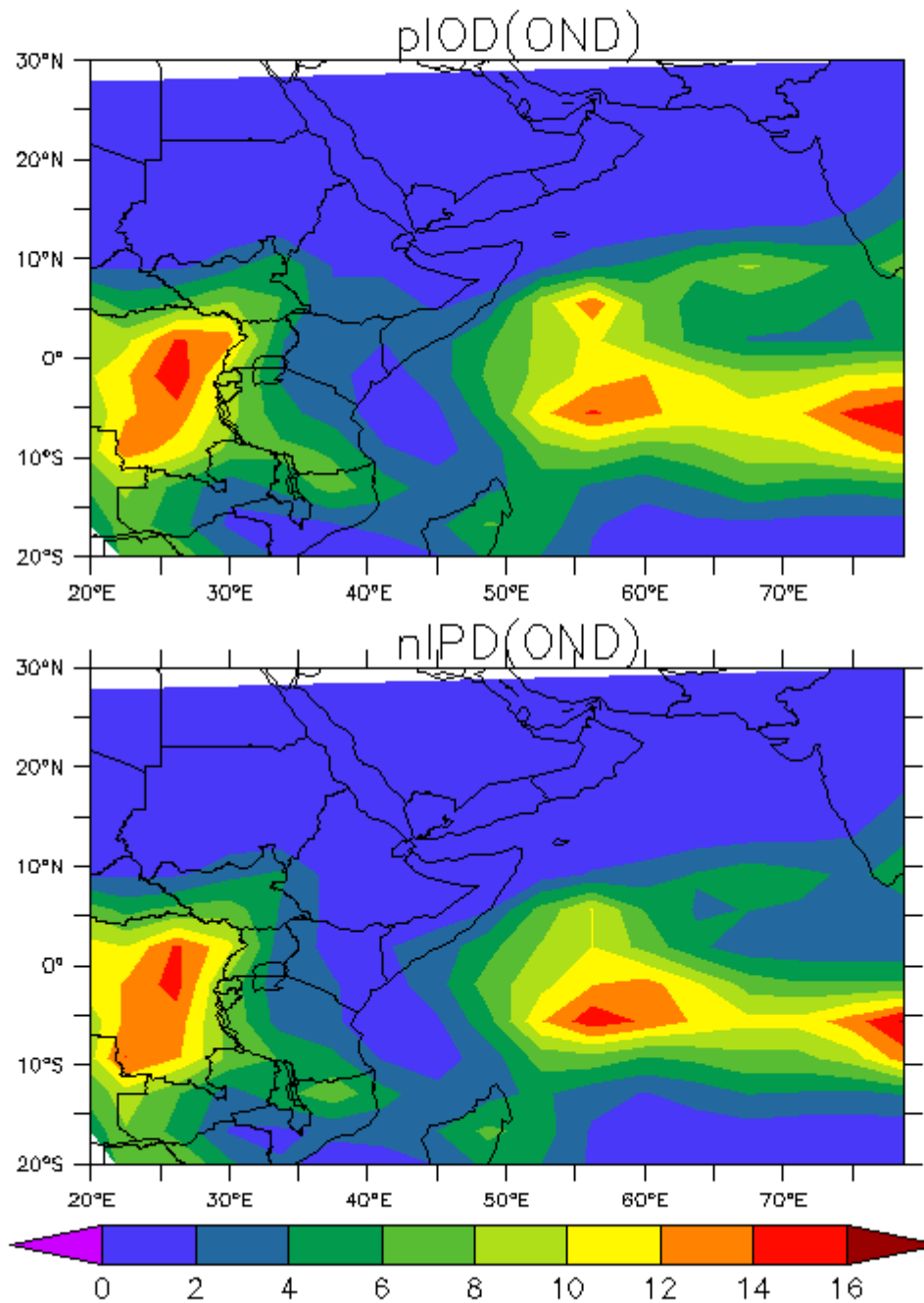
Climatology



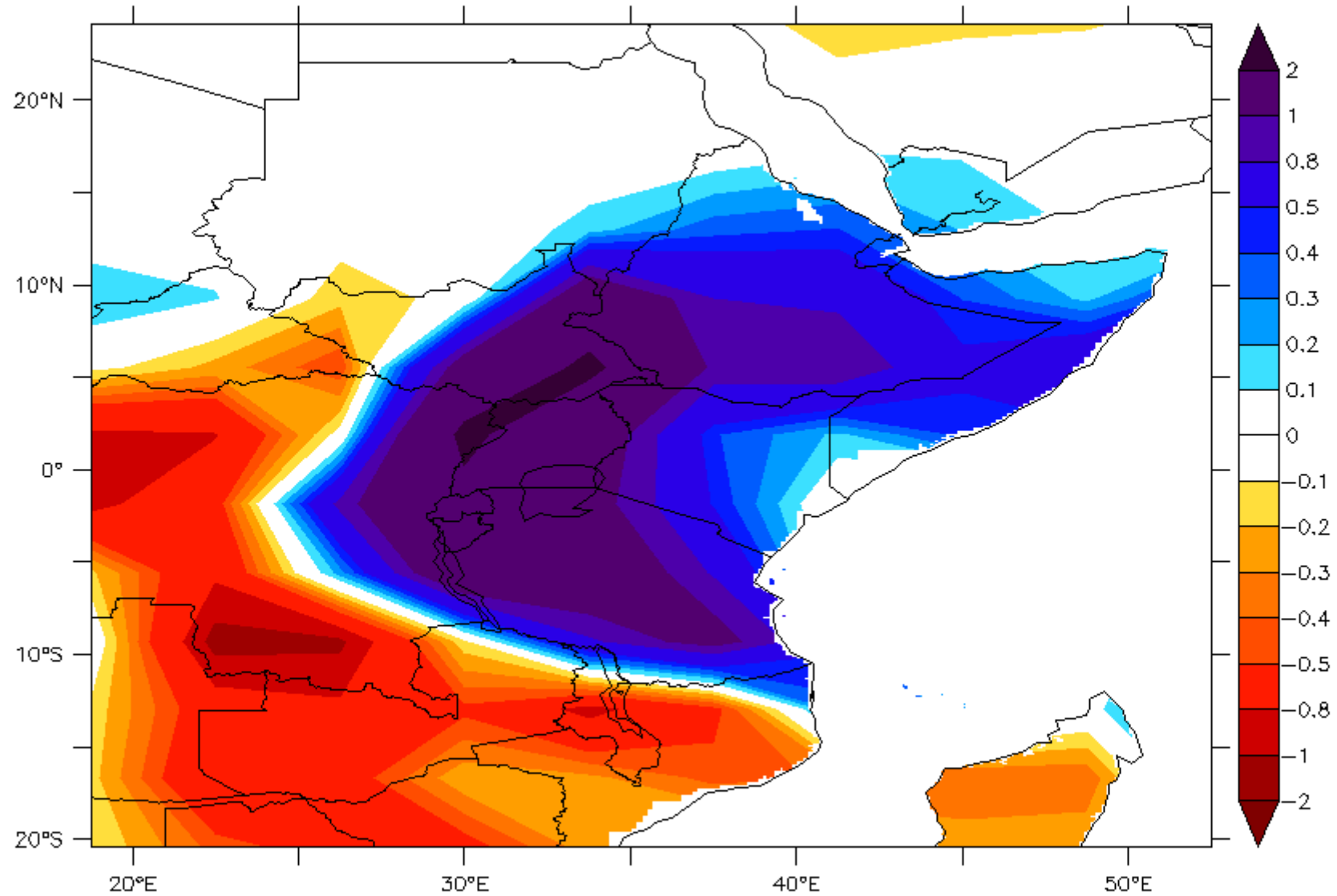
SST Anomaly



Climatology



Precipitation anomaly



Thanks!