# CCSM Climate: A look at the Atlantic sector\*

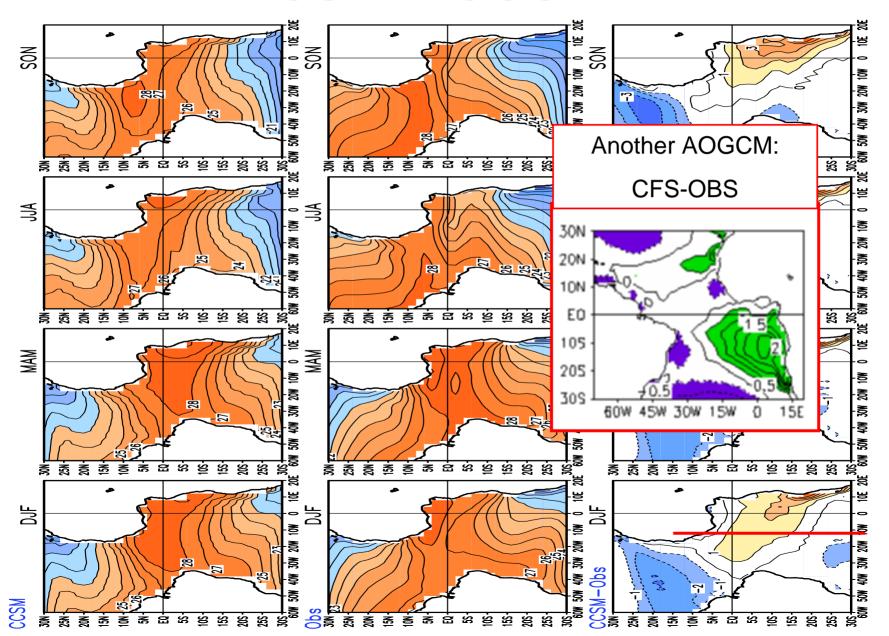
Ching-Yee Chang, James Carton, Sumant Nigam, and Semyon Grodsky
Department of Atmospheric and Oceanic Science/ESSIC, University of
Maryland, College Park, MD

\*(see poster)

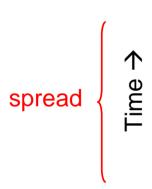
# We'll look at: CCSM3 T85 historical run, CAM3

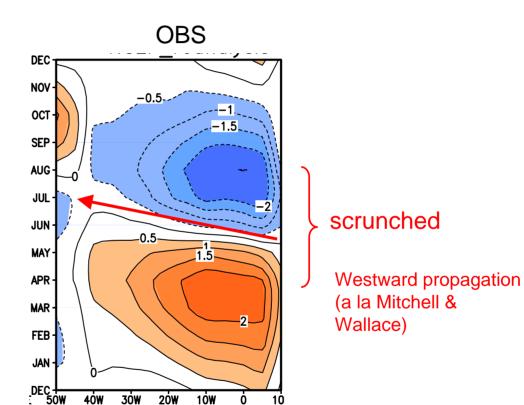
- Tropical winds, SST
- Climate of NW Africa

#### SST in CCSM

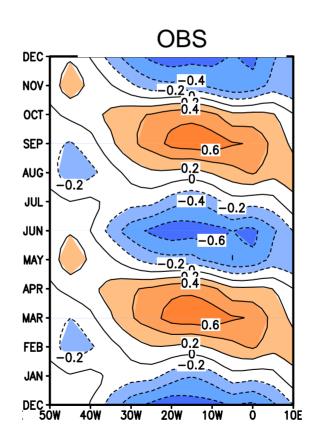


## SST anomaly (4°S-0°N)

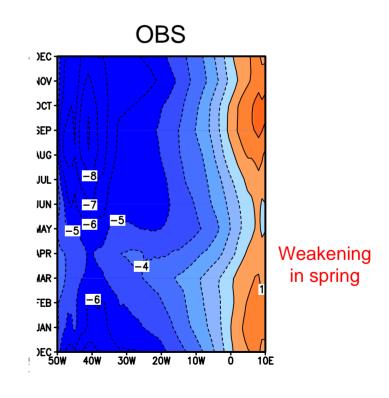




# SST' semiannual cycle 4°S-0°N



## Zonal winds 4°S-0°N

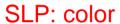


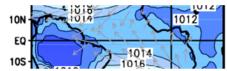
## CCSM Seasonal SLP, U<sub>1000mb</sub>

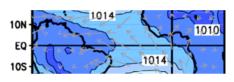
CCSM

Sept.- Nov.
NCEP reanalysis

CCSM-NCEP re



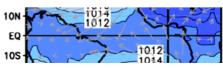






#### March-May





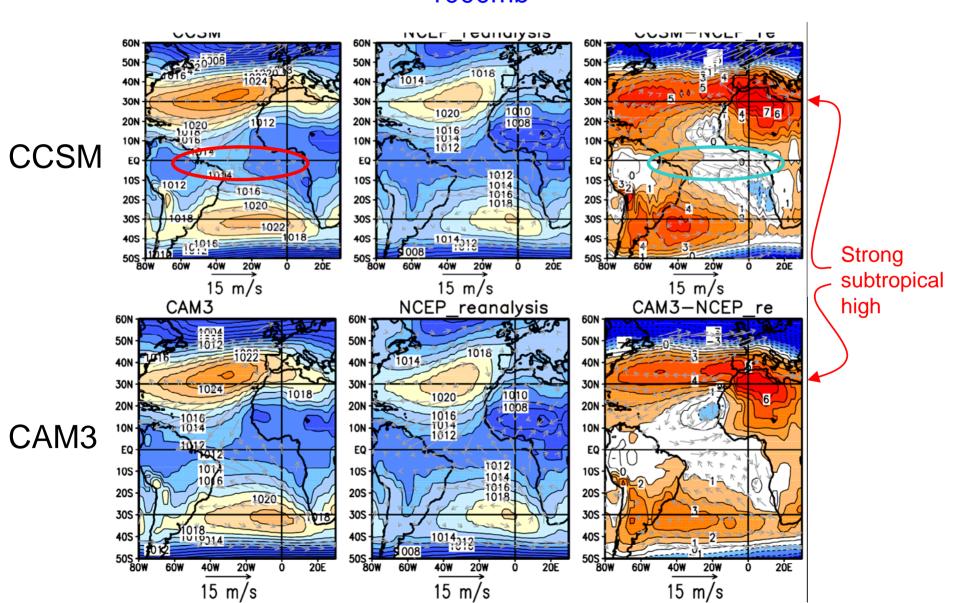


15 m/s

 $\overrightarrow{15}$  m/s

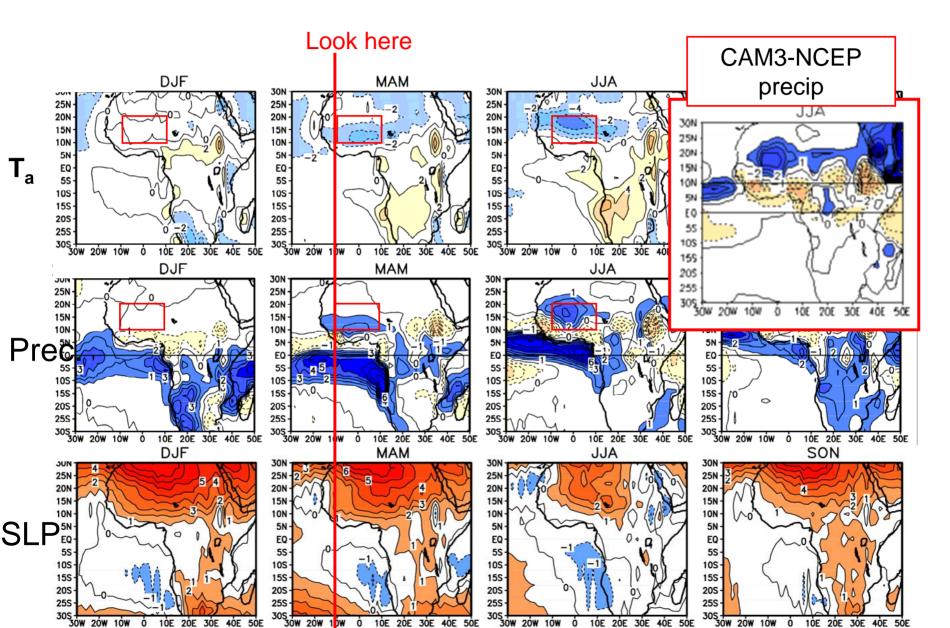
15 m/s

## CCSM vs CAM3 SLP, U<sub>1000mb</sub> March-May

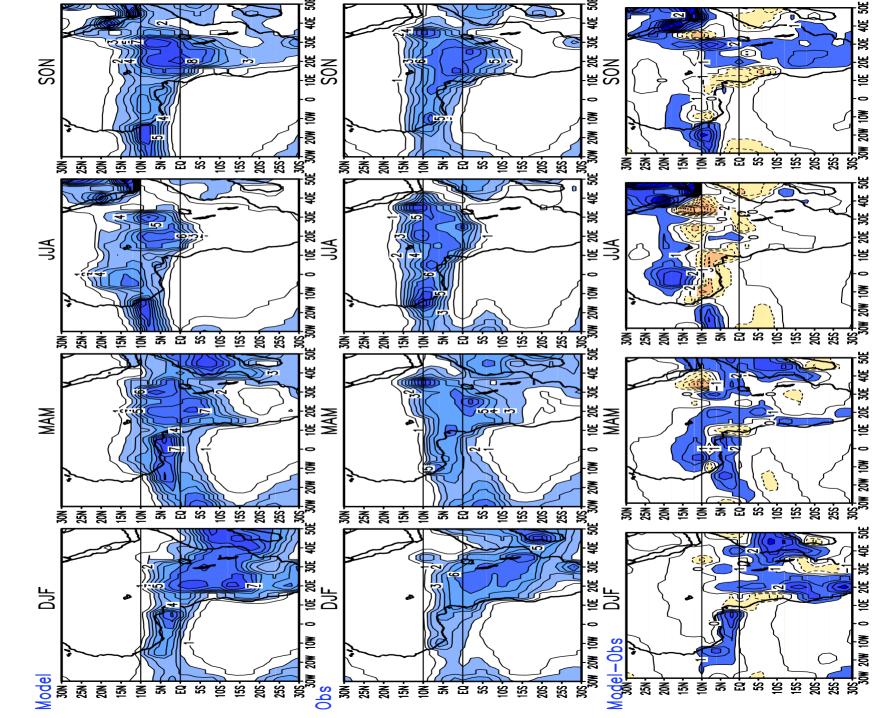


#### Climate of the Sahel and Sahara

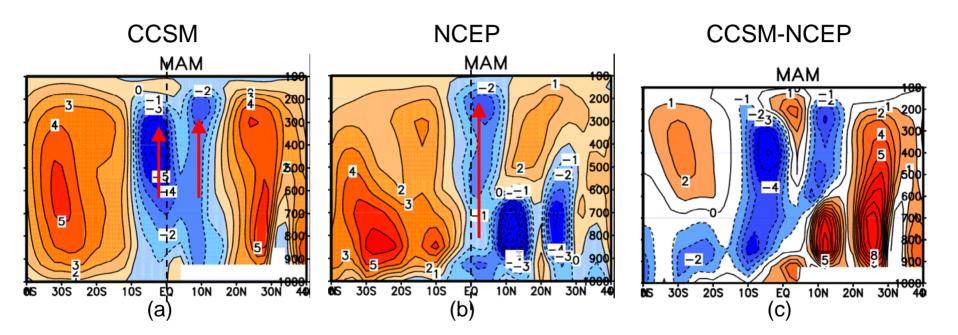
### **CCSM-NCEP** for Africa



Model(CAM3:prate), Obs(NCEP\_reanalysis:prate) and Model-Obs Rainfall (mm/day



## Convection (10W)



#### **CCSM Sahel**

Precip, Ta, SLP, Omega\*100

