Investigation of the linkage between AMOC slowdown and North Atlantic cold blob in the past century: a modeling study

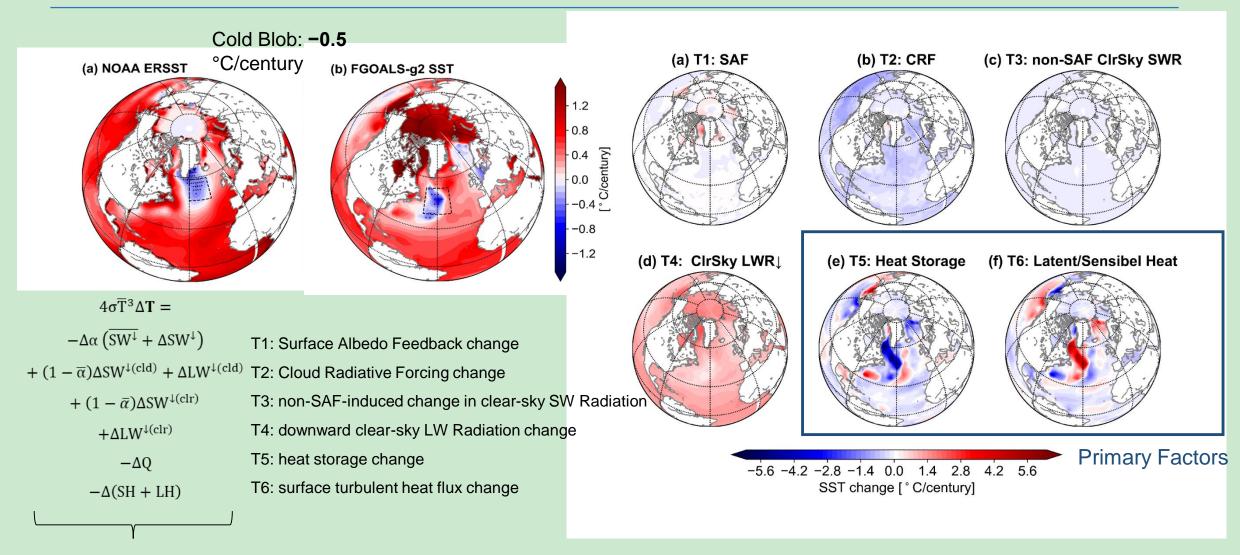
Yifei Fan (Penn State University)

NOAA CDWP workshop

10/27/2021

Reference: Yifei Fan, Jianhua Lu and Laifang Li (2021). Mechanism of the centennial subpolar North Atlantic cooling trend in the FGOALS-g2 historical simulation. *JGR: Oceans*.

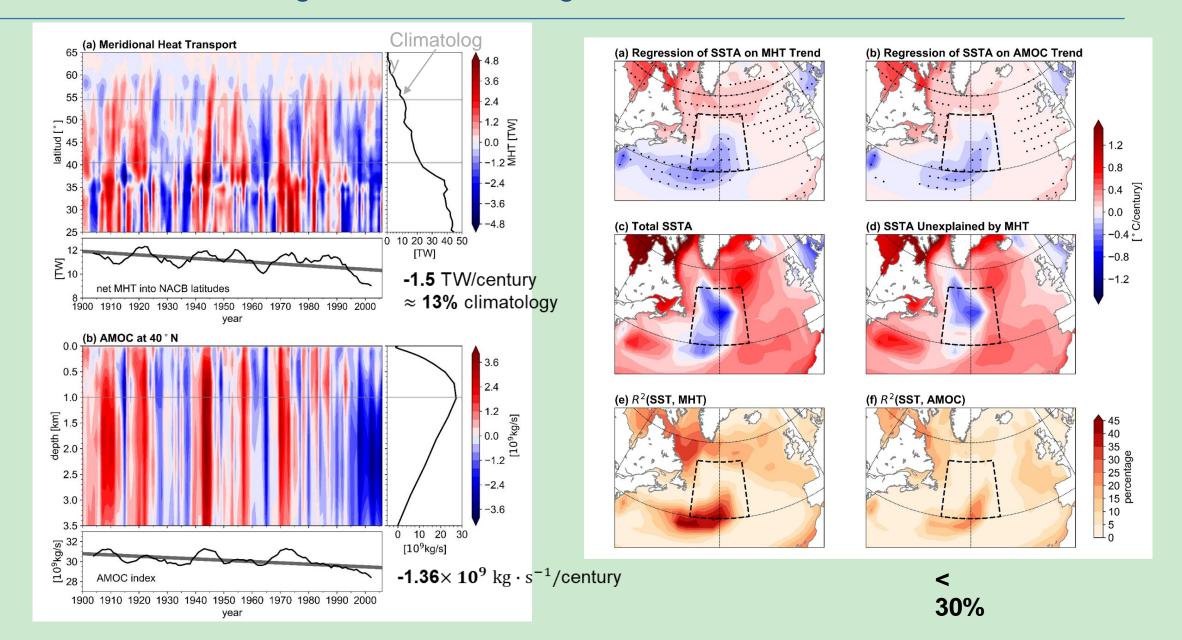
North Atlantic Cold Blob & Partial Temperature Changes



Divided by $4\sigma \overline{T}^3$ — Partial temperature changes

Temporal period: year 1900~2006

Meridional Overturing Circulation Change & Its Limited Contribution



AMOC Trends in CMIP6 Models

