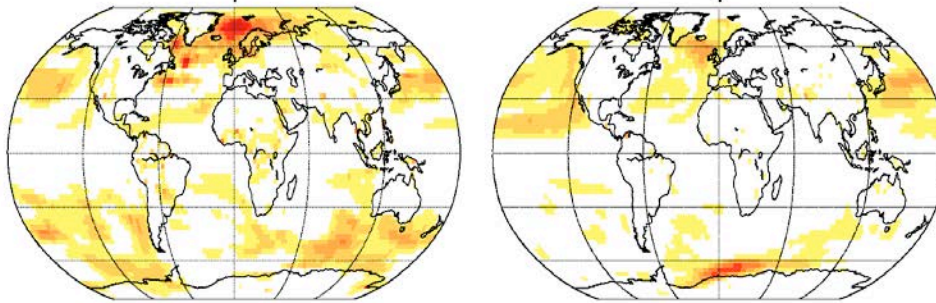


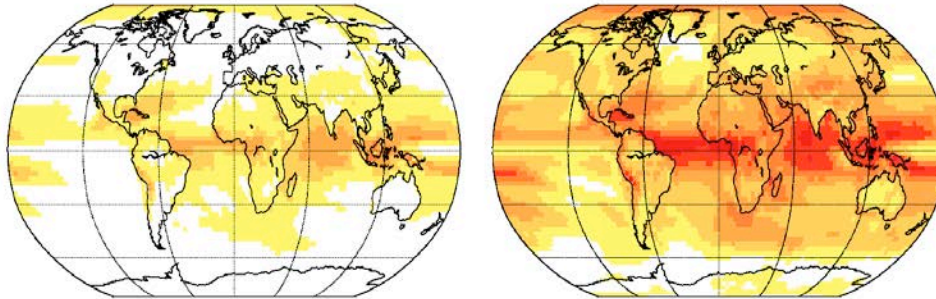
AR5 Chapter 11: Near Term Prediction and Projection

- **Decadal Predictability**
- **Decadal Prediction**
- **Near Term Projection**
 - Up to Mid-Century, but emphasize 2015-2035 Period

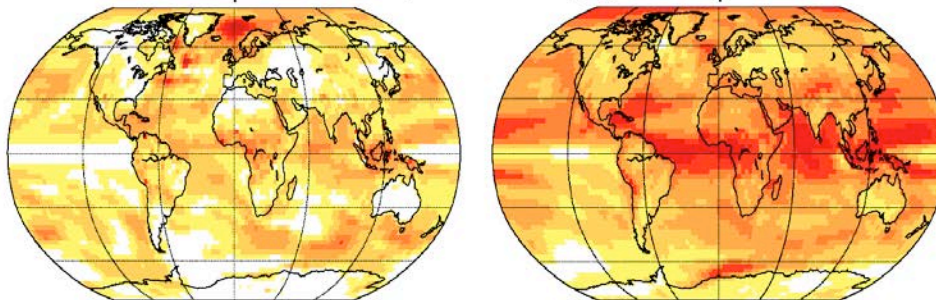
Potential predictability variance fractions
Internally generated



Forced

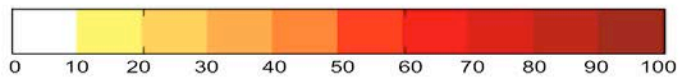


Forced plus internally generated



Five year means

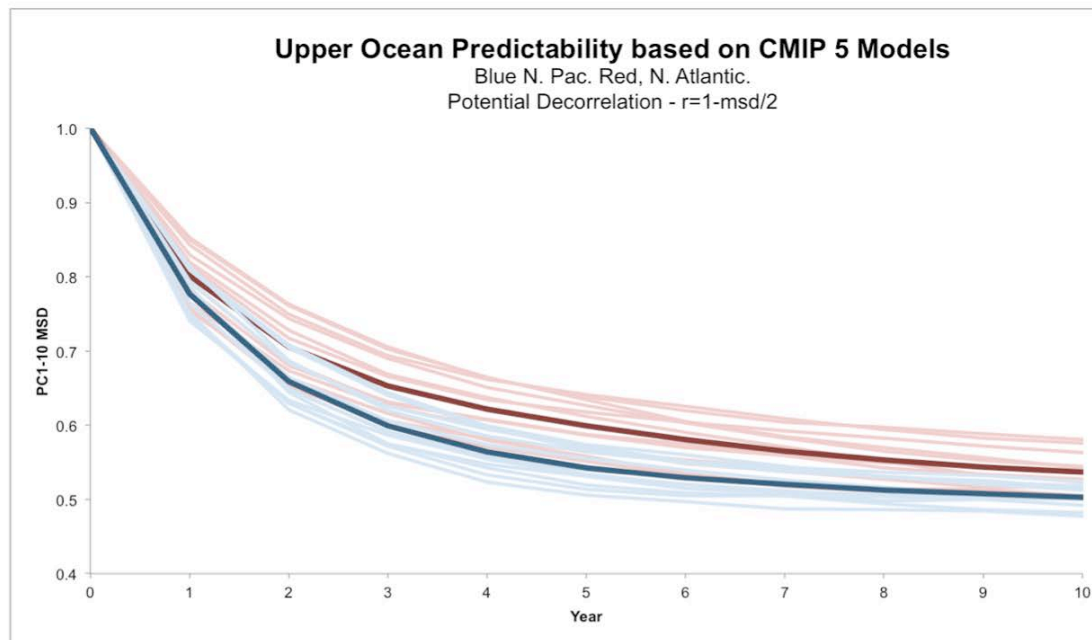
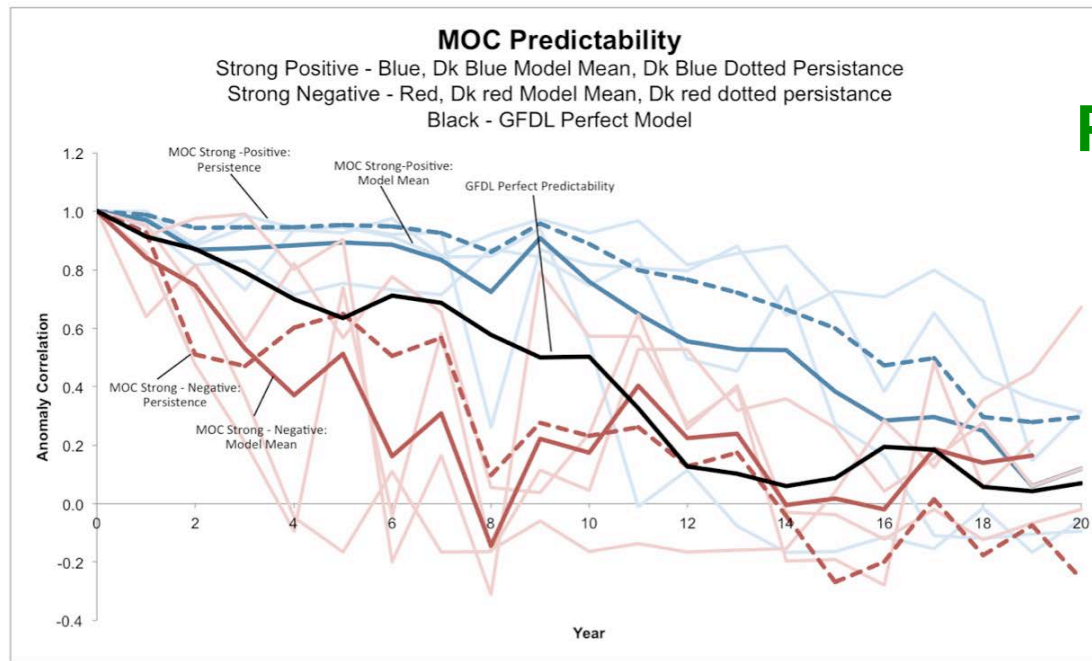
Decadal means



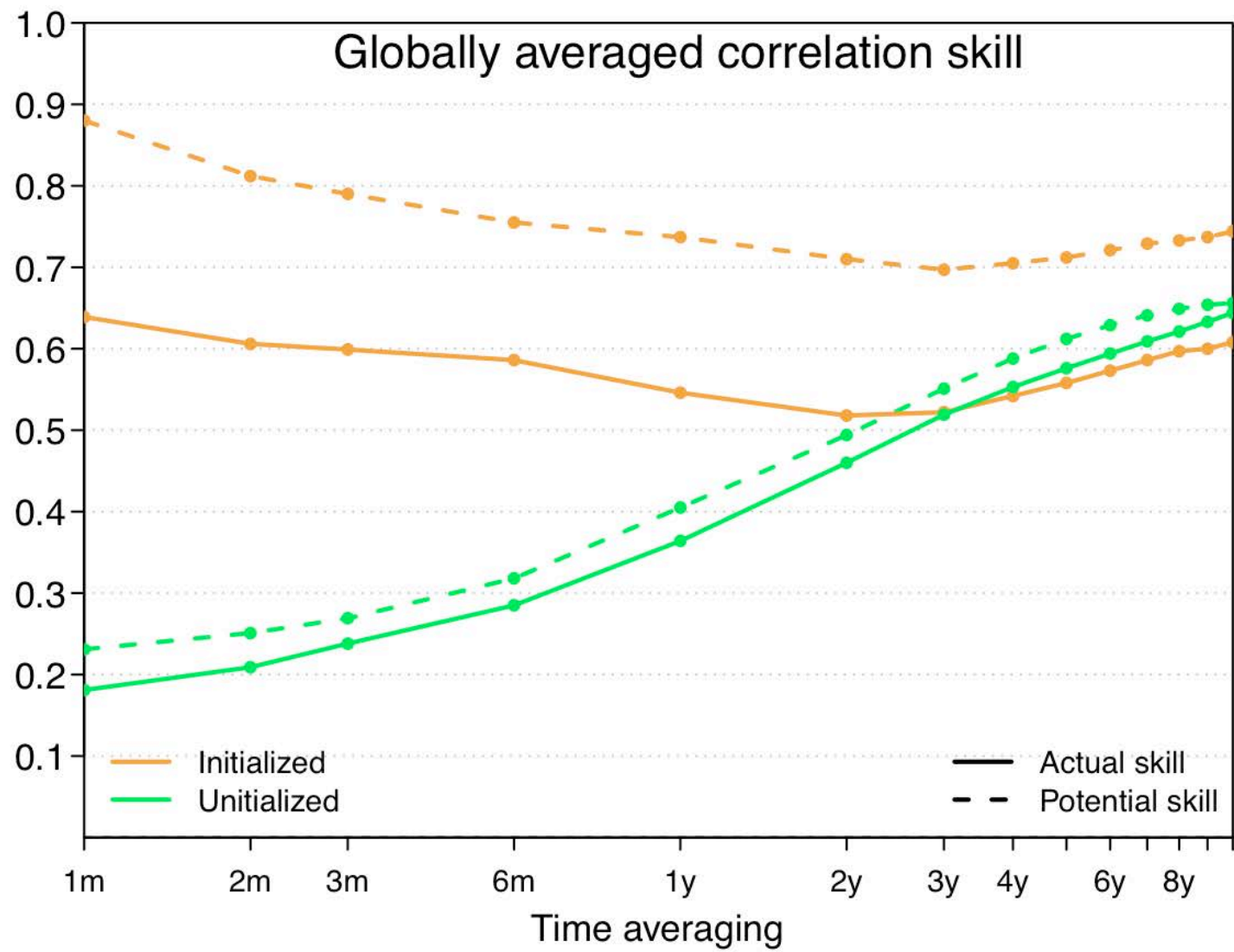
“Diagnostic Predictability”

Analysis of Variance Approach

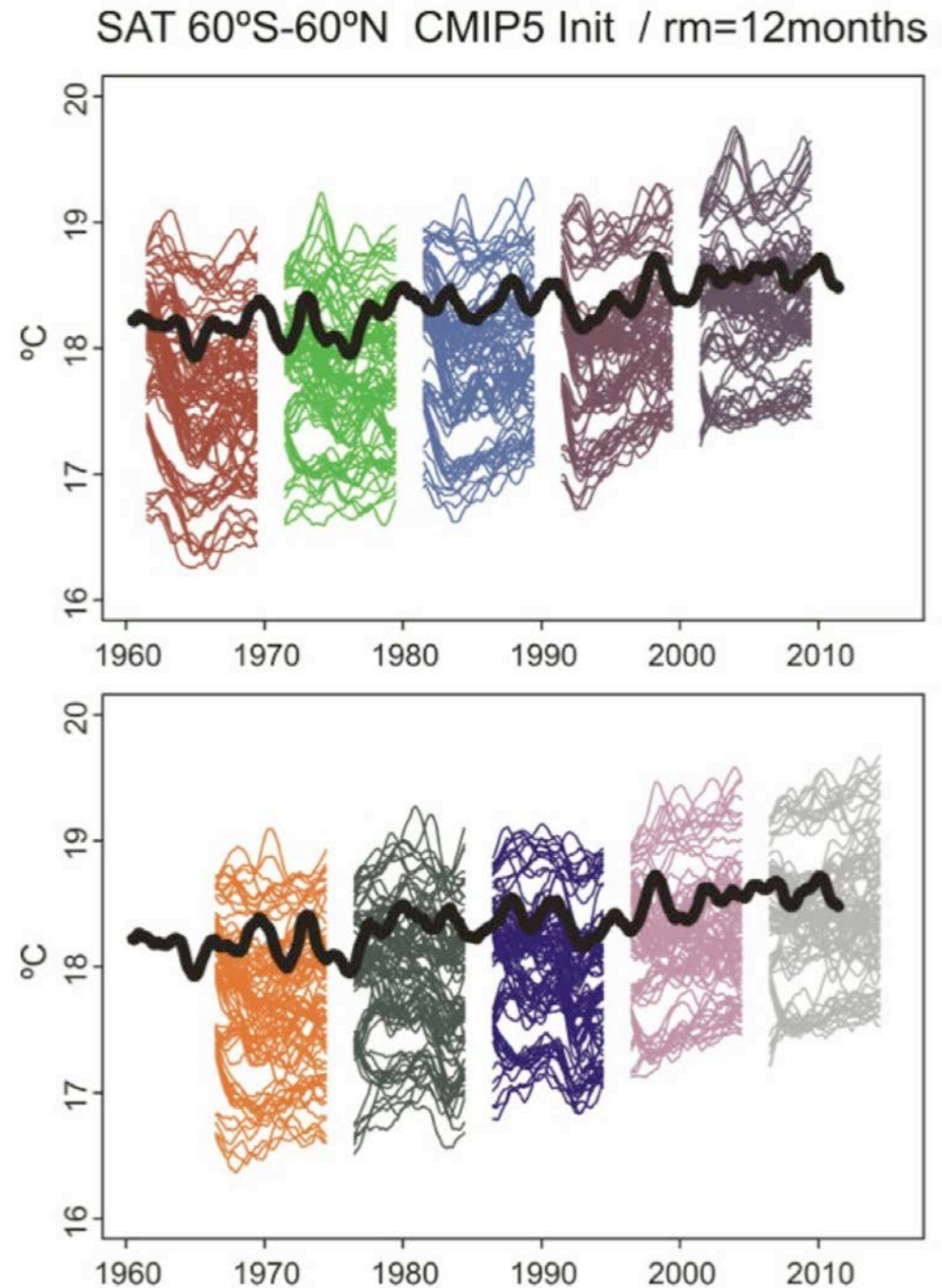
Prognostic Predictability

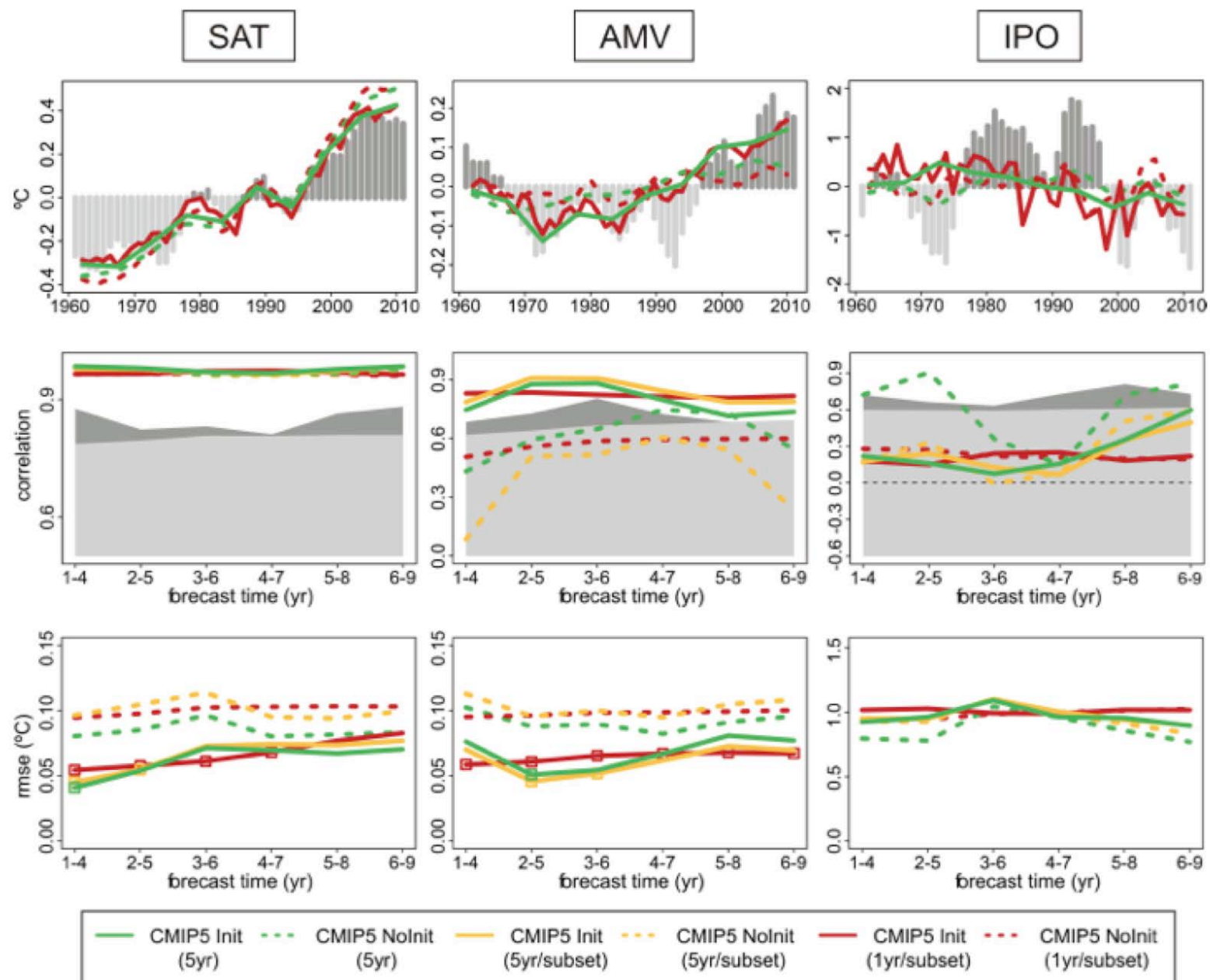


Analogue Approach Using CMIP5



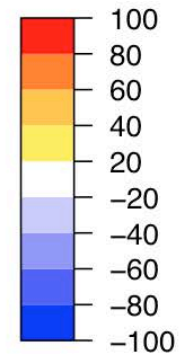
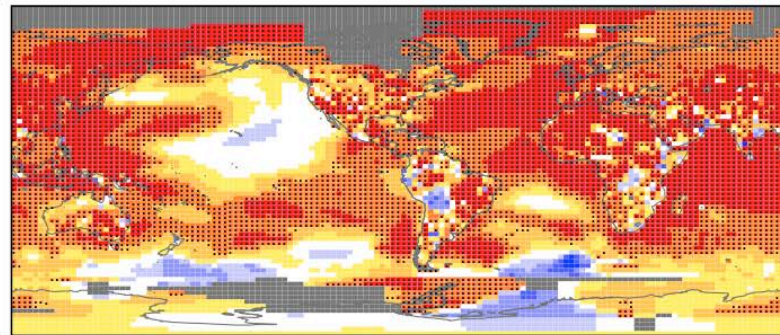
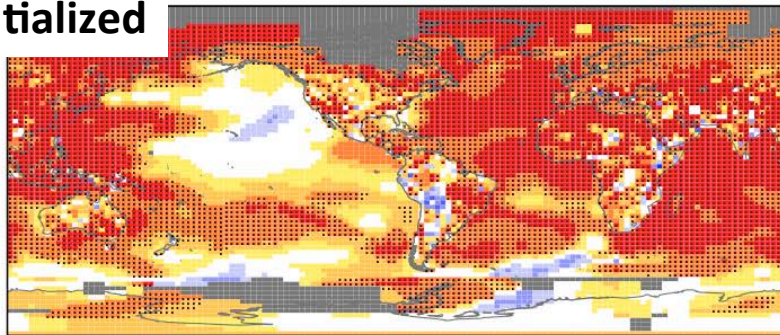
CMIP5 Raw SAT Retrospective Prediction



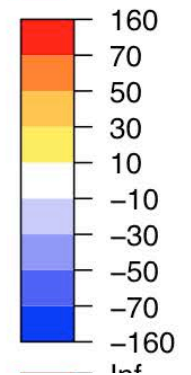
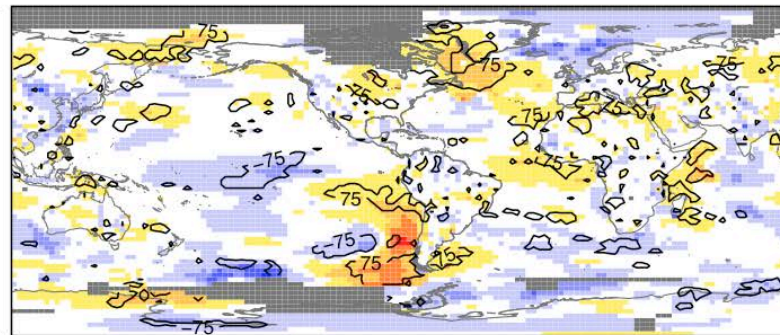
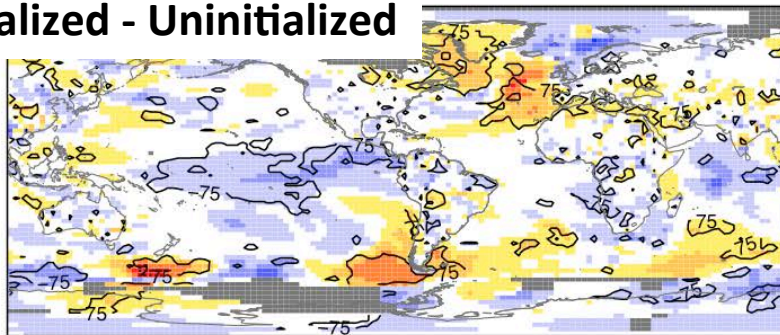


T2m Correlation: Initialized vs. Uninitialized

Initialized



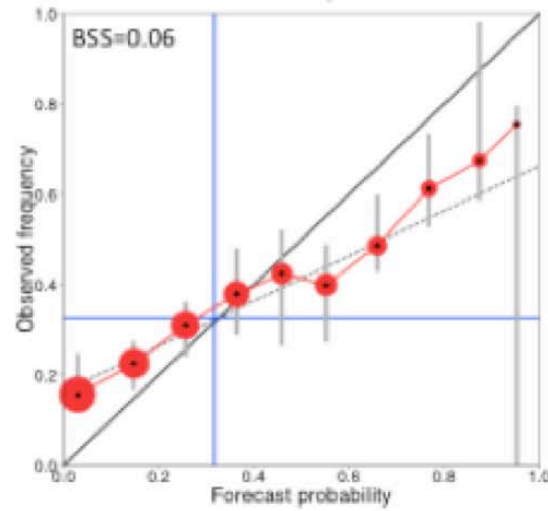
Initialized - Uninitialized



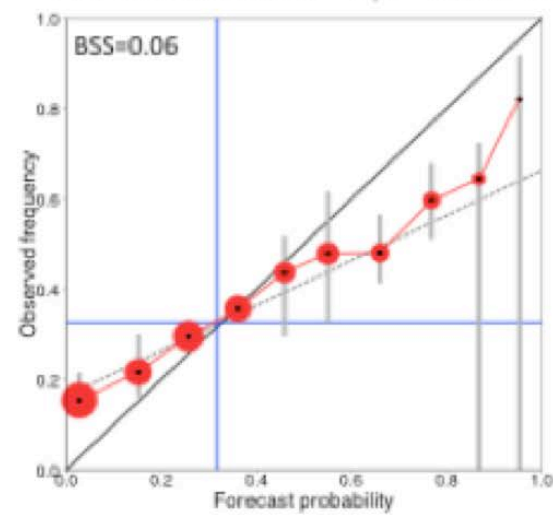
Years 2-5

Years 6-9

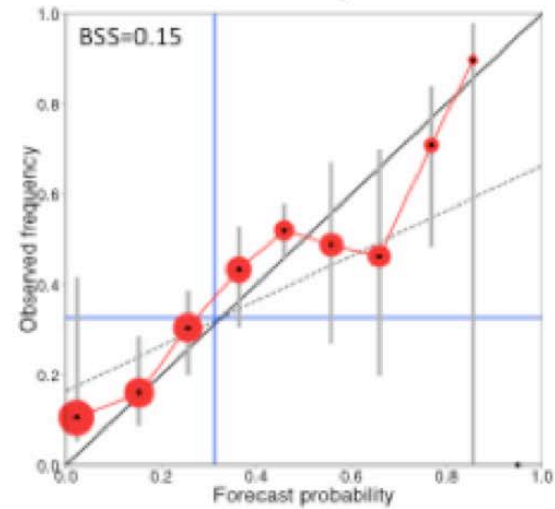
a) INITIALISED Hindcasts
SST Global Ocean 2-5yr – lower tercile



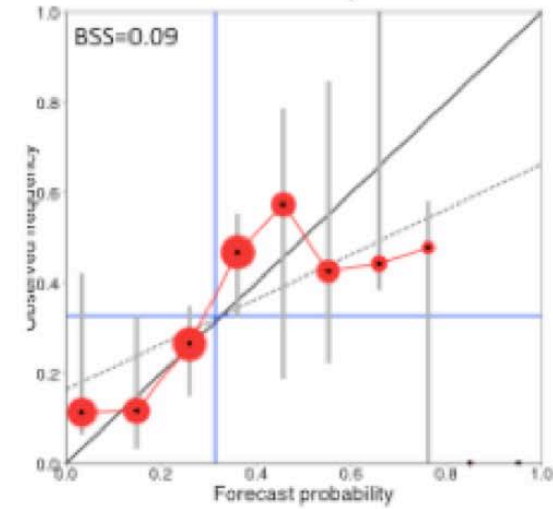
b) NON-INITIALISED Hindcasts
SST Global Ocean 2-5yr – lower tercile

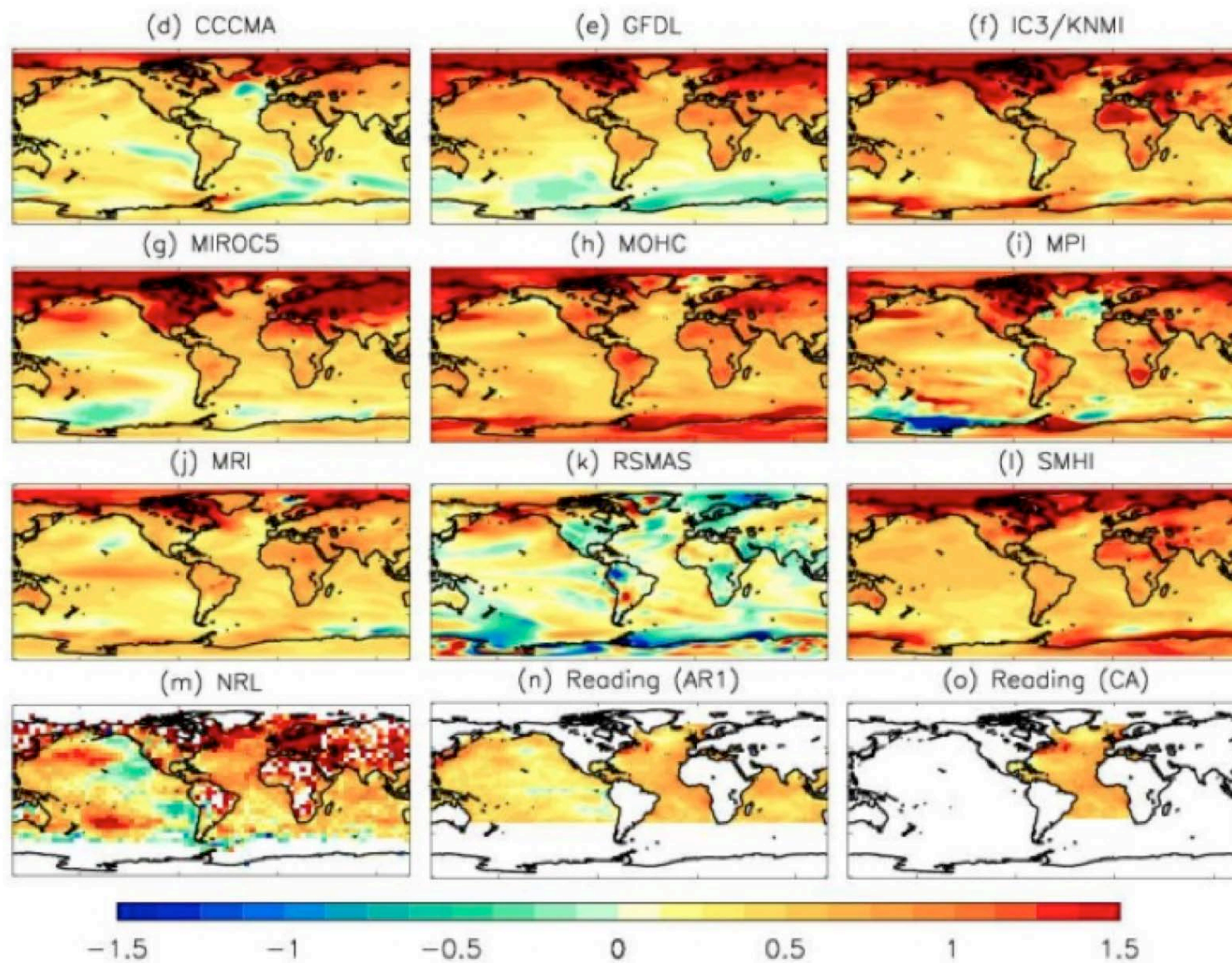


c) INITIALISED Hindcasts
SST North Atlantic 2-5yr – lower tercile

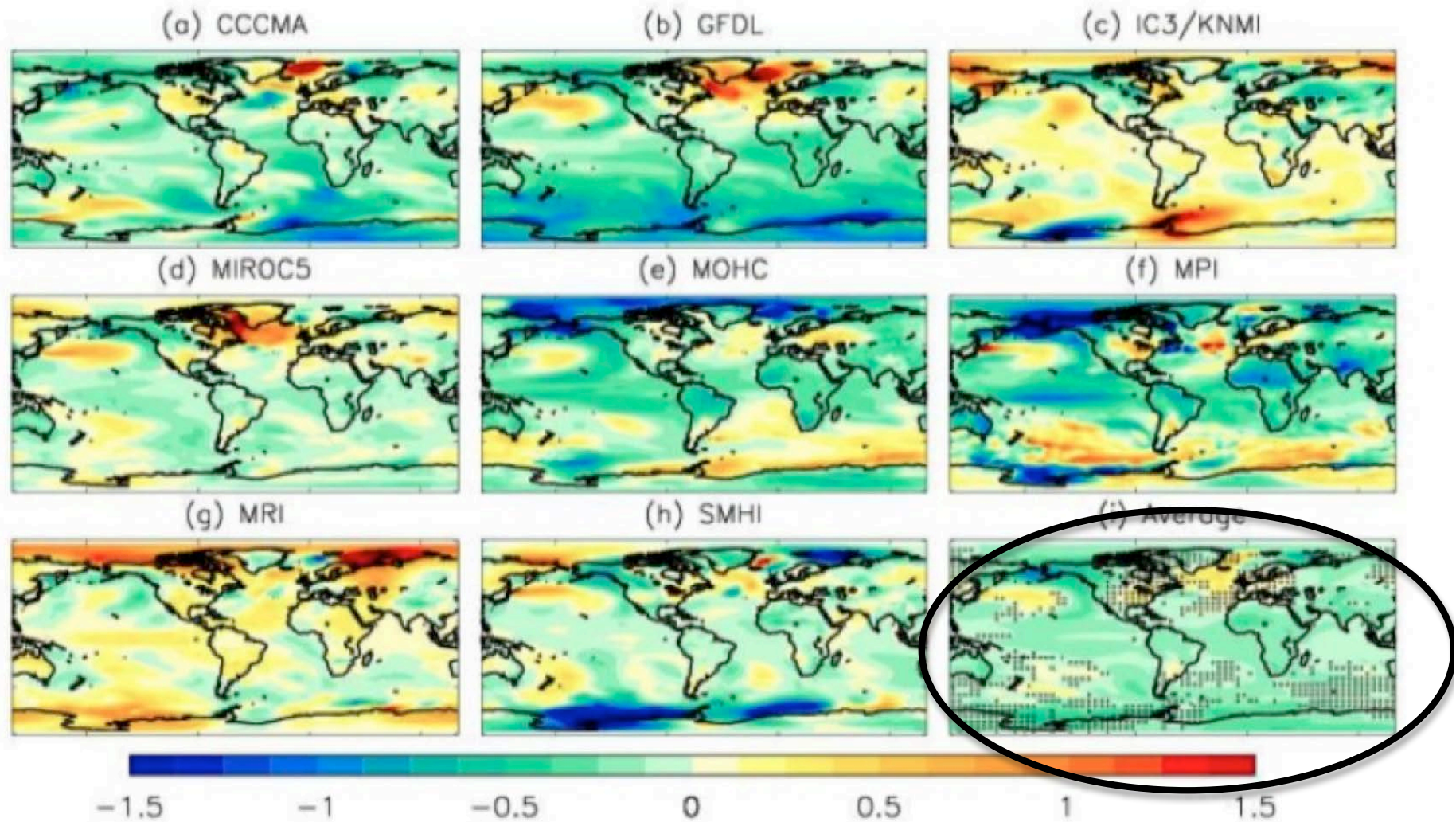


d) NON-INITIALISED Hindcasts
SST North Atlantic 2-5yr – lower tercile





Initialized Predictions vs. Projection 2012-2016



Global mean temperature near-term projections relative to 1986–2005

