

# Metrics, diagnostics and evaluation: What we tried to accomplish...

Marion Mittermaier (WCRP hat: WGNE/JWGFVR)

Peter Gleckler (WCRP hat: WGNE/WGCM metrics and diagnostics panel)

- Explore synergies between climate and NWP evaluation capabilities
- Expand to include S2S, WGSIP, OMDP, CORDEX
- Define a path to inspire different communities to identify, develop & establish routine benchmarks for tracking model performance changes over time
- What can these two groups do to improve sharing of diagnostics across WCRP WGs?
- Think about pros/cons of large quantities of rapid and automated CMIP6 evaluation going public

# Science discussions

- Opportunity for forecast experts to intersect with climate: Exploit T-AMIP simulations to consider T, precip, winds (clouds)
- Apply a range of NWP- and climate metrics
- T-AMIP potentially a viable “proto-DECK” (CMIP8?)
- Maturity of “routine metrics” is very diverse – working groups can strive to advance this via targeted assessments

# Implementation

- Routine metrics evaluation not about identifying causes, but tracking the evolution of “state-of-the-art” over time
- Community becoming increasingly open; working groups can facilitate by establishing a “store” for diagnostic codes (associated with publications)
- The “store” could accommodate all WCRP working groups