

Scale-dependent verification of TIGGE forecasts

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Anomaly Correlation Coefficient (ACC) is often used in the verification of mid-latitude forecasts, in this study we decompose ACC of the THORPEX interactive grand global ensemble (TIGGE) forecasts by spatial scale and answer following questions:

1. How does ACC compare among different spatial scales of TIGGE models?
2. At what scales is the ACC improved among the models over the last decade?
3. In current context of increased model resolutions, over what scales have TIGGE models improved and how does it effect the model development of current NWP models?

This study also emphasizes optimal strategies for analyzing high-resolution data sets.