Session: B1 Oral presentation

A metrics framework to assess and validate decadal climate predictions and simulations

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In this talk we present a framework developed by the US CLIVAR Decadal Predictability Working Group to assess and validate decadal climate predictions and simulations. The experience gained from the production, communication, and application of more than two decades of seasonal-to-interannual prediction serves as a starting point for this framework, however decadal prediction contains some unique elements. The beneficiaries of this guidance span the range from modeling centers to end-users. This framework is intended to better prepare modeling and prediction centers to understand and communicate the quality of the information they have to offer when the decadal predictions are made available to the scientific community and the public at large. Similarly, this framework will be useful to users of the predictions who require information on forecast quality, relative to baseline information they already utilize in their decision making context, e.g., the climatology, as well as information about the limitations and caveats of decadal forecasts.