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Linking Weather and Climate

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In order to make progress on many societally important problems, an improved understanding is required of the connections between weather and climate. This is entirely in keeping with the growing demand from the public and decision-makers for a seamless suite of weather and climate forecasts that span times from very short range forecasts to decadal-to-centennial climate change projections. This presentation overviews progress and challenges in attacking problems of weather-climate linkages from both the weather side out and climate side in. It highlights areas of common research interest, as well as key priorities that have emerged from recent reports, especially (but not exclusively) related to the IPCC Fourth Assessment and the United States Climate Change Science Program. The presentation concludes with suggestions on near-term directions for advancing the understanding and capabilities to predict the connections between weather and climate.