

Lynn Zhou (Bureau of Meteorology)

Session 8: Extreme event attribution, likelihoods and impacts

Title: ACCESS-MICAS – a forecast-based method for event attribution

Co-authors: P. Hope, E.-P. Lim

The Australian Community Climate and Earth-System Simulator – Modified Initial Condition Attribution System, ACCESS-MICAS, is a forecast-based tool for extreme event attribution. Using the operational global coupled sub-seasonal to seasonal forecast version of ACCESS, ACCESS-S2, and modifying the initial conditions, we can re-forecast an event with counterfactual conditions and assess various contributors to the extremity of the event, including climate change. In this talk we demonstrate how ACCESS-MICAS has been applied to recent extremes, and we invite collaborators to contact us if they are interested in analysing experiments using the system.