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Session 5: Advances in modelling and projections

Title: Bringing the Australian climate science community together to help users: A National Partnership for Climate Projections

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The ability to understand and manage physical climate risks depends on high-quality and consistent climate information delivered in forms that are accessible to users and relevant to their needs. Recognising this increasing demand – the Department of Climate Change, Energy, the Environment and Water led the formation of a National Partnership for Climate Projections in 2022. It includes key representatives from Australian climate science community including state and territory governments, CSIRO, the Bureau of Meteorology, universities, and Australian Government funded initiatives such as the National Environmental Science Program Climate Systems Hub and the Australian Climate Service. The aim of the NPCP is to develop a consistent approach to deliver comparable, robust, authoritative, fit-for-purpose future climate information to enable a wide range of users to assess their climate risks and plan more efficiently for potential opportunities. The partners committed to work together to deliver the Climate Projections Roadmap for Australia. The roadmap outlines a collaborative approach to bring together existing initiatives from the partners, including the production (e.g., model selection), higher level analysis (e.g., hazard assessments) and delivery of climate projections to enhance existing initiatives and nationally comparable climate projections information. The roadmap also seeks to increase collaboration over the longer term to guide investment in climate research and enabling research infrastructure. Through implementing the roadmap, the National Partnership for Climate Projections is building a community of practice across those designing, producing, and delivering climate change projections to address common challenges. The partnership operates through working groups focused on climate change science and projections, technology, computing and data, and climate services and user needs. An outline of the NPCP and its constituent workplans will be presented.