

## **Christoph Rudiger (Bureau of Meteorology)**

### **Session 9a: Designing and delivering seamless services**

#### **Title: Towards and integrated and seamless hydrology at the Bureau of Meteorology**

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Hydrology is at the core of all global environmental processes, regulating energy, water and carbon fluxes, partitioning precipitation into infiltration and surface runoff water, and through streamflow also plays a considerable role locally in ocean processes. Despite this, land surface processes have generally been used to compensate for errors and uncertainties in the atmospheric model, not to realistically represent the land surface processes, making it difficult to use their output directly in customer applications. This presentation outlines the work currently undertaken at the Bureau of Meteorology to consolidate the different hydrological models into a single, seamless modelling framework, leading towards consistent hydrological information across space and time, and hence facilitating the development of new and improving the quality of existing customer-facing products.