

Developing an integrated predictive capability for extreme rainfall and inundation (Project T4-A7)



Optimising use and communication of probabilistic environmental information

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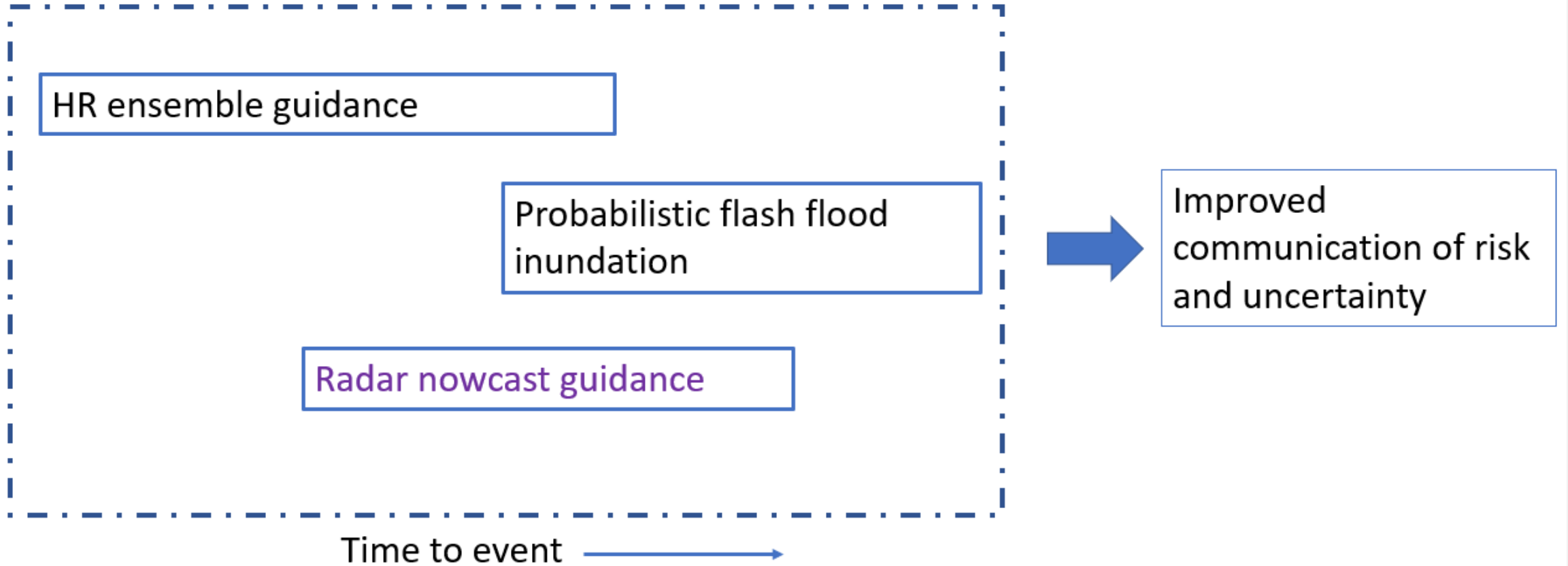
David Wilke

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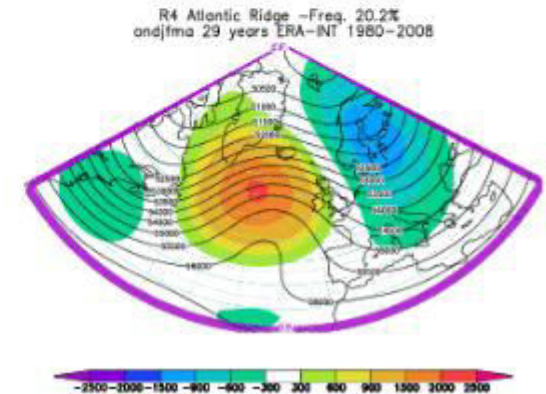
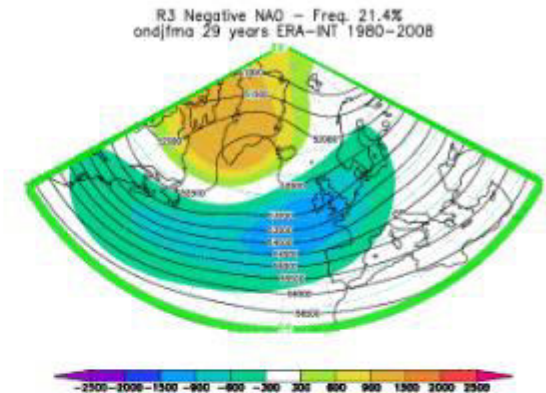
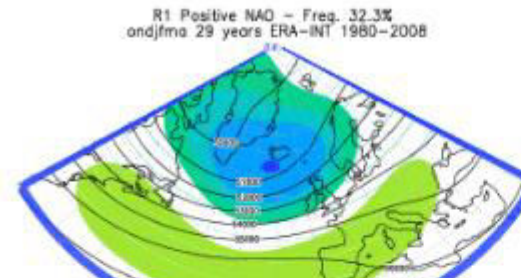
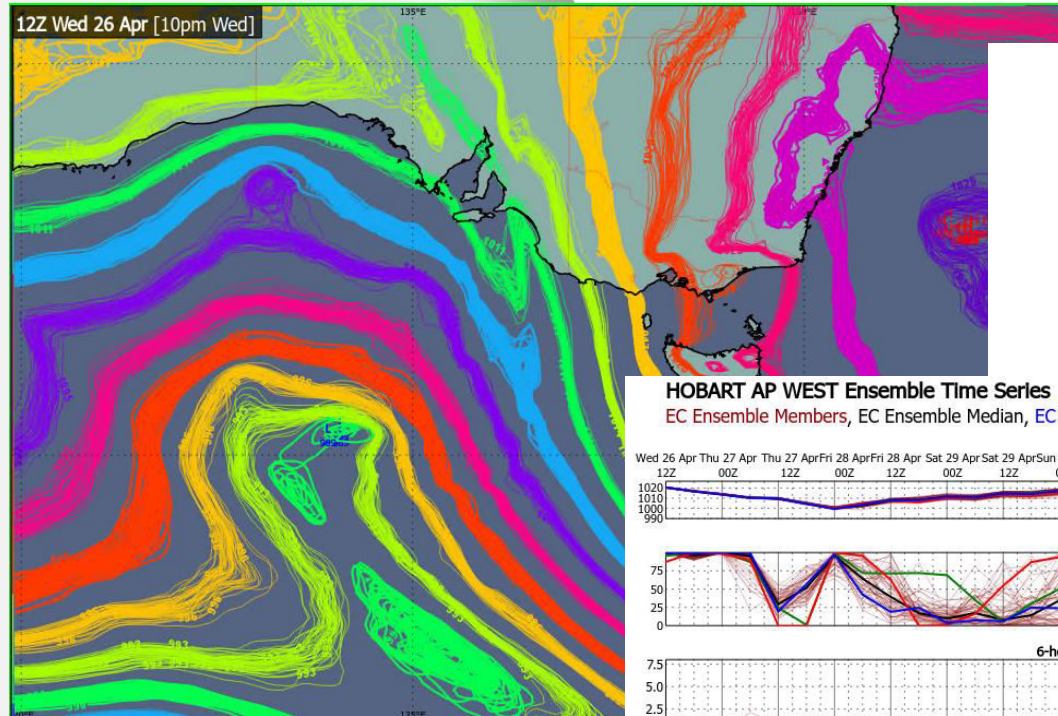
Barry Hanstrum



Outline

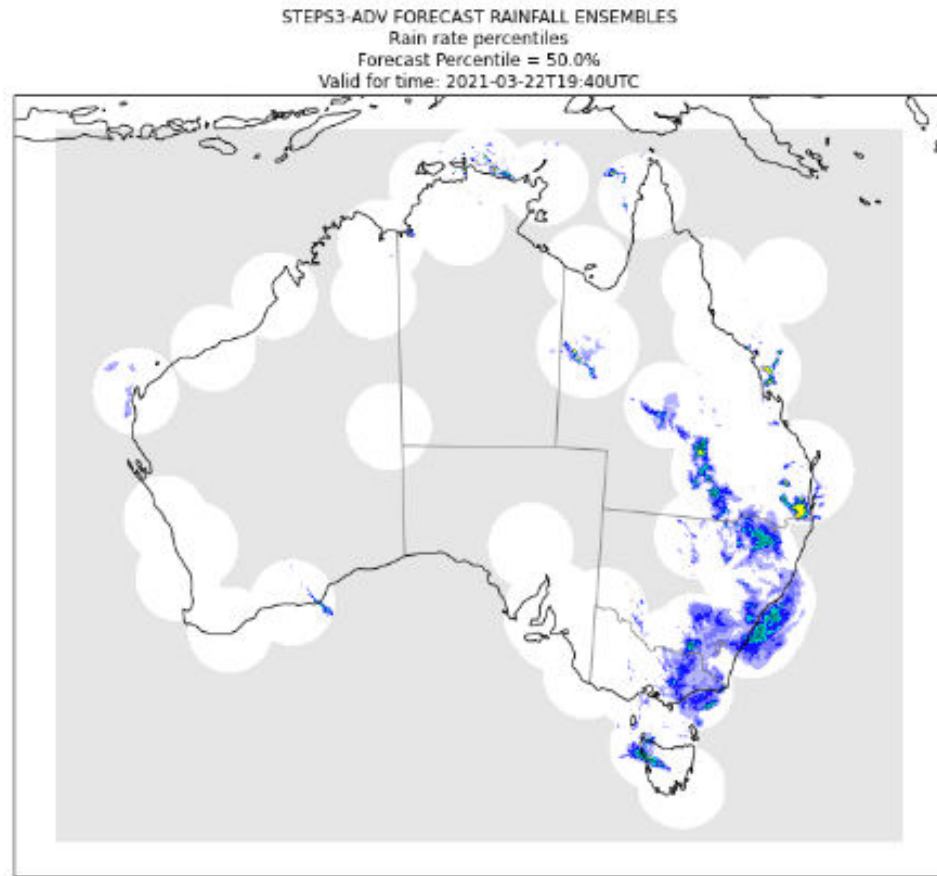


Optimal use of high resolution numerical weather ensembles

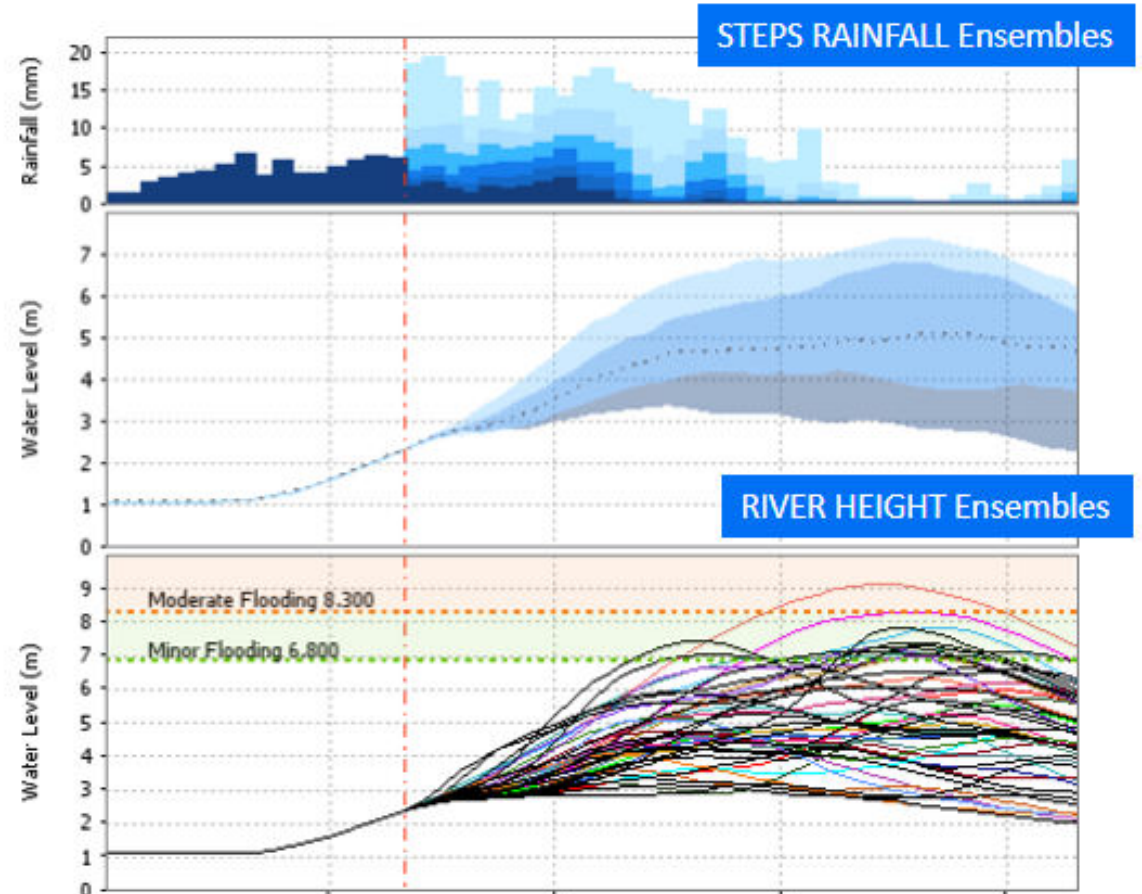
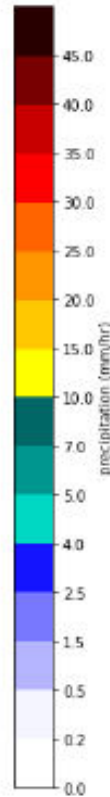


Radar Rainfall to assess/predict heavy rainfall in real-time

Gridded radar rainfall observations and ensemble of rainfall nowcasts (0-90min) are update every 5 minutes



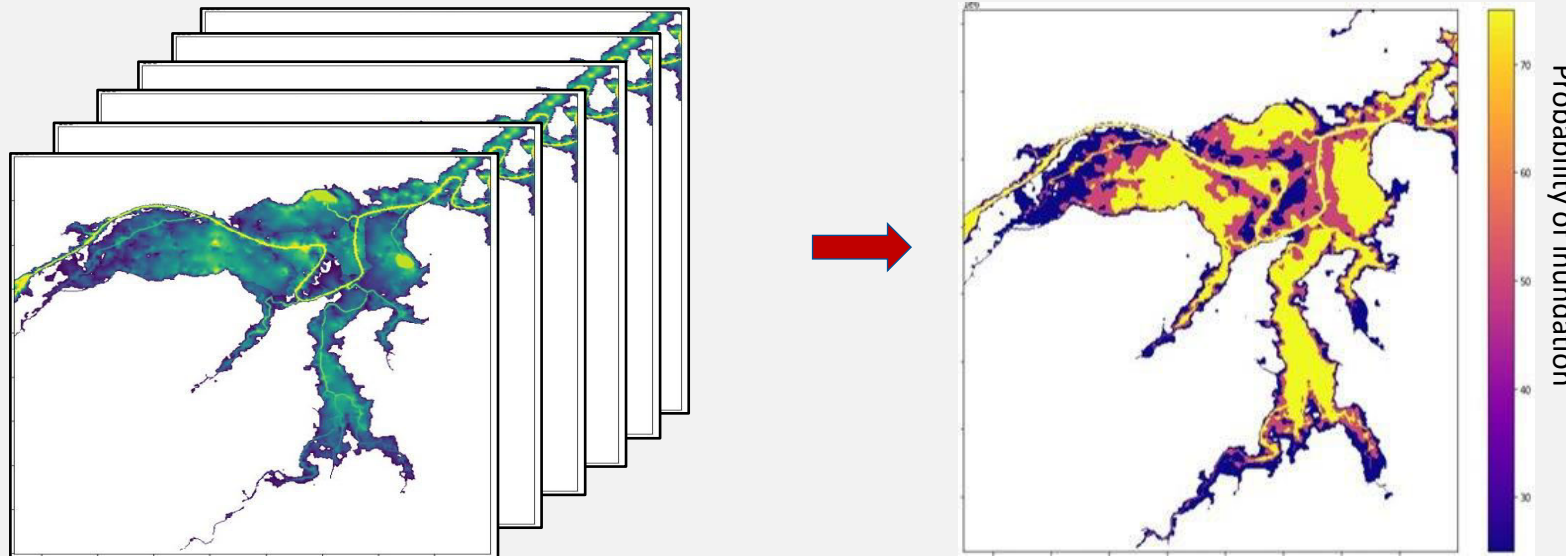
Example of Rainfields Forecast (STEPS 0-90min)
National Mosaic - 2021-03-22T19:15UTC



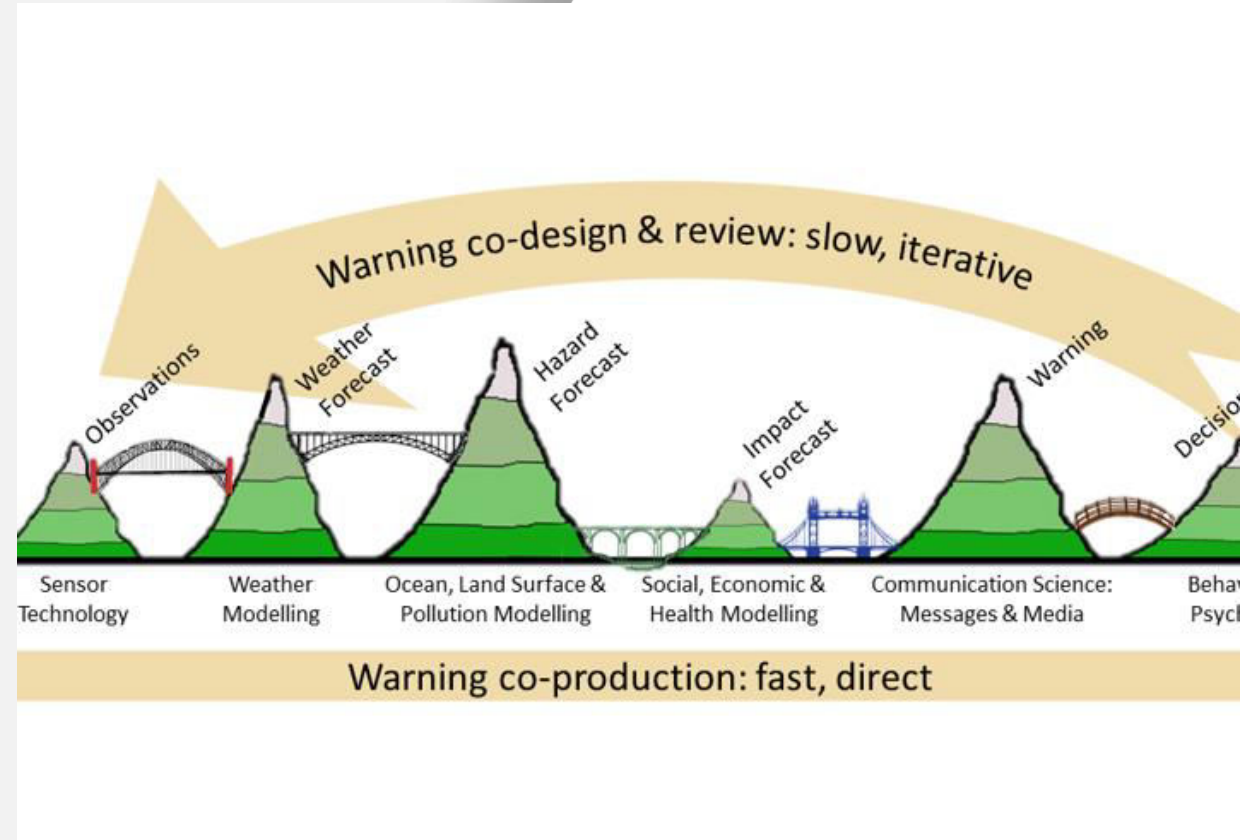
The usage of ensembles of Rainfall Forecasts allows to create ensembles of Water Level forecasts



Probabilistic flash flood inundation modelling



Components integrated guided by value chain approach to communication of environmental messages (rainfall/flash flood potential)



Thank You

