



Australian Government  
Bureau of Meteorology



## WIRADA ACHIEVEMENTS 2008–16



More than \$65 million invested over 8 years to advance national water information science



One arc-second (~30 m resolution) Digital Elevation Model developed for Australia to understand our landscape and water resources



200 of Australia's top water scientists working together over 8 years—representing over 250 person-years



New hydrological models that produce daily estimates of soil moisture, runoff, precipitation, evapotranspiration and deep drainage at a 25 km<sup>2</sup> resolution across Australia<sup>2</sup>



27 research projects to deliver the science behind the Bureau's Water information program



Daily streamflow forecasts for the next 7 days issued at more than 100 sites across 50 catchments<sup>3</sup>



5 international data exchange standards developed to help users to share, analyse and compare water information<sup>1</sup>



Australia's first national seasonal streamflow forecast service running at more than 140 sites, issued every month<sup>4</sup>

1 [www.bom.gov.au/water/standards/aboutStds.shtml](http://www.bom.gov.au/water/standards/aboutStds.shtml)

2 [www.bom.gov.au/water/landscape](http://www.bom.gov.au/water/landscape)

3 [www.bom.gov.au/water/7daystreamflow](http://www.bom.gov.au/water/7daystreamflow)

4 [www.bom.gov.au/water/ssf/index.shtml](http://www.bom.gov.au/water/ssf/index.shtml)



## WIRADA ACHIEVEMENTS 2008–16



Improved rainfall forecasts at scales required for streamflow forecasts and accurate estimates of evapotranspiration across the continent



Over 20 million data files transferred to the Bureau using WDTF since 2009



Spatial model to map relationships between more than 3 million unique hydrological features across Australia—such as storages, monitoring points, streams and catchments<sup>5</sup>



20 operational water information products developed, tested or supported with WIRADA science



SolidGround: tools to create and manage information models in a consistent way



Over 100 international science journal papers published, 350 conference presentations given, 200 reports written



Water Data Transfer Format to automate sharing of Australia's water information adopted by industry and lead water agencies



World class science in partnership with nearly 50 national and international research collaborators