

## WIRADA Research Projects for 2009/10

No	Project Title	Project Leader (CSIRO)	Project Sponsor (Bureau)	Project Business and Implementation Leads (Bureau)
1.2	<b>Hydrologists workbench</b> <i>Developing a platform-independent tool for creating workflows that link hydrological models and large data sets across multiple platforms in a repeatable, auditable and transparent way.</i>	Susan Cuddy	Louise Minty <i>(Sponsor's agent: Malcolm Watson)</i>	<i>Business:</i> David Barrett Jim Elliott Neil Plummer <i>Implementation:</i> David Kinny
1.4	<b>Water data transfer standards</b> <i>Defining water data transfer standards, vocabulary services, and WaterML2.0 through the Open Geospatial Consortium Hydrology Domain Working Group and the WMO Commission on Hydrology</i>	Gavin Walker & Peter Taylor	Tony Boston <i>(Sponsor's agent: Paul Sheahan)</i>	<i>Business:</i> Tony Boston David Nicholls <i>Implementation:</i> Paul Sheahan (External); David Kinny (Internal)
1.5	<b>Sustainable water information models</b> <i>Developing Model Driven Architecture (MDA) methodologies and developing toolsets for information model management in environments where the need to manage information based on differing models is vital. Both AWRIS and AHGF are examples of such environments.</i>	David Lemon	Peter Gigliotti <i>(Sponsor's agent: David Kinny)</i>	<i>Implementation:</i> David Kinny
2.1	<b>One-second Continental DEM</b> <i>Completing the hydrologically-enforced one-second (30m) resolution DEM for Australia continent and methods for hydrological attribution</i>	John Gallant	Tony Boston <i>(Sponsor's agent: Elizabeth McDonald)</i>	<i>Business:</i> Elizabeth McDonald <i>Implementation:</i> Dovey Dee
2.2	<b>Precipitation and actual evapotranspiration products for water resources applications</b> <i>Developing data sets of precipitation and evapotranspiration with improved spatial representation.</i>	Luigi Renzullo & Edward King	Louise Minty <i>(Sponsor's agent: David Barratt)</i>	<i>Business:</i> David Barratt <i>Implementation:</i>
3.1	<b>Water resources assessment and accounting</b> <i>Developing prototype systems for comprehensive national water assessments and water accounts.</i>	Albert Van Dijk	Louise Minty <i>(Sponsor's agent: David Barratt)</i>	<i>Business:</i> David Barratt Grace Mitchell <i>Implementation:</i> David Barratt Grace Mitchell
4.1	<b>Water forecasting and prediction - short term</b> <i>Enhancing existing flood forecast systems by increasing the lead time and precision of forecasts and by extending to continuous flow forecasting</i>	QJ Wang	Dasarath Jayasuriya <i>(Sponsor's agent: Jim Elliott)</i>	<i>Business:</i> Jim Elliott <i>Implementation:</i> Soori Sooriyakumaran
4.2	<b>Water forecasting and prediction - seasonal to long term</b> <i>Developing methods and systems for predicting inflows to river systems over seasonal to decadal time scales.</i>	Enli Wang	Dasarath Jayasuriya <i>(Sponsor's agent: Neil Plummer)</i>	<i>Business:</i> Neil Plummer <i>Implementation:</i> Jeff Perkins; Mohammed Bari; Narendra Tuteja