

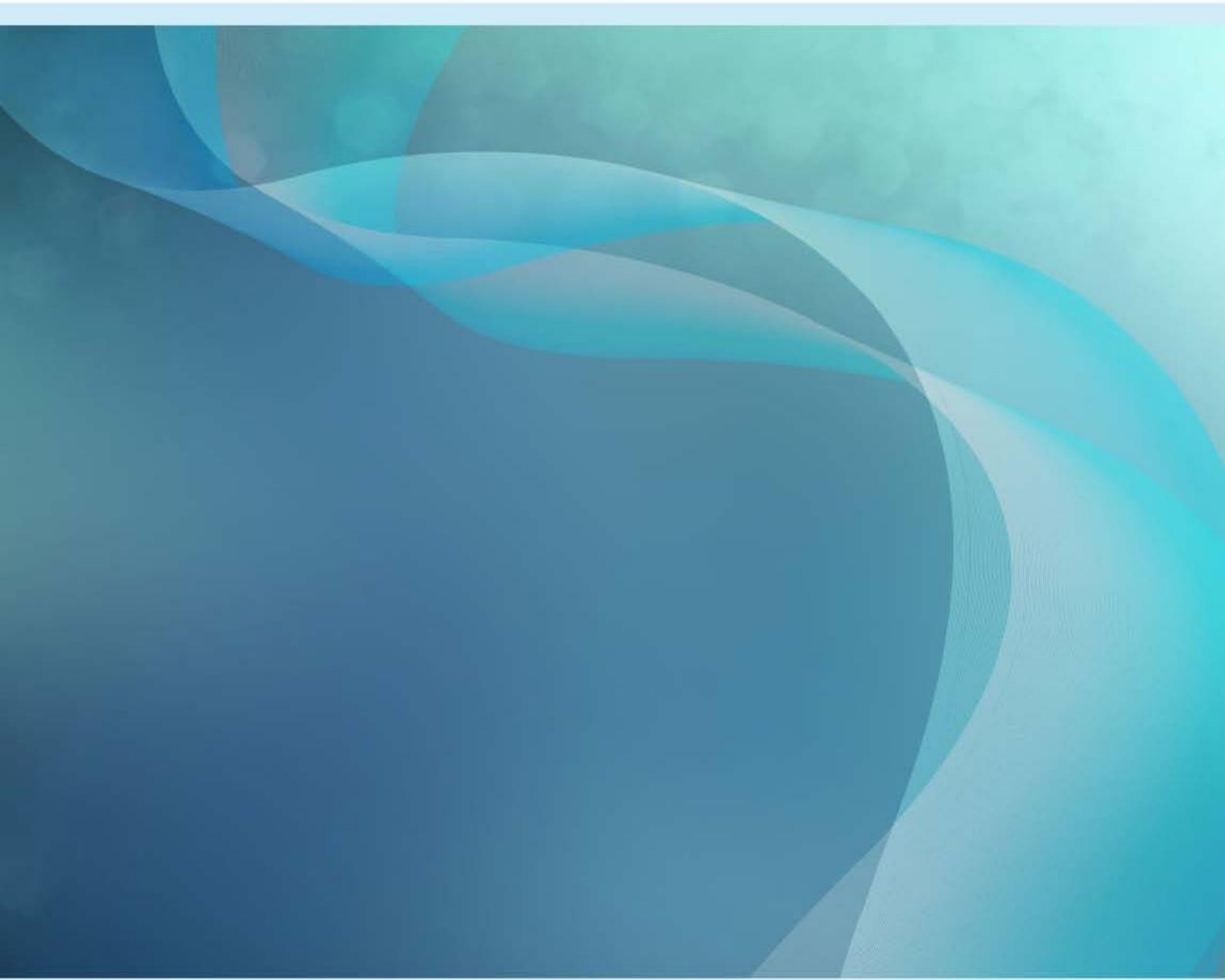


**Australian Government**

**Bureau of Meteorology**

# WIRADA Research bibliography – Informatics and foundation data

Water Information Research and Development Alliance



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# 1 Water Informatics publications

## Hydrologists workbench (Project 1.2)

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9. Mills K. 2009. Report on the usability of the Hydrologists' Workbench. Briefing paper, December 2009.
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## Australian hydrological geospatial fabric (Project 1.3)

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## Australian spatial research data commons (Project 1.6)

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## Real-time water information systems (Project 1.7)

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3. Mueller H, Liu Q, Bai Q, Kloppers C, Terhorst A. 2011. Enabling assessment and propagation of information quality in the South Esk Hydrological Sensor Web. *EGU 2011 General Assembly*. Vienna, Austria.
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2. Shao Q, Li M, Sparks R. 2008. A review of statistical quality control and quality assurance for hydrological data. CMIS Technical Report 08/37. A report for the Bureau of Meteorology. Water for a Healthy Country Flagship, CSIRO,
3. Sparks R, Shao Q, Li M. 2008. Research needs for improving data quality and quantifying measurements uncertainty. CMIS Technical Report 08/29. A report for the Bureau of Meteorology. Water for a Healthy Country Flagship, CSIRO,
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## Bedding-down the Geofabric: design, implementation and production of the Australian Hydrological Geofabric (Project 1.9)

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2. Atkinson R, Fitch P. 2012. Referencing hydrological features in the Linked Data web. Paper presented at the *10th International Conference on Hydroinformatics, HIC 2012*. Hamburg, Germany. July 2012.
3. Car N. 2013. A method and example system for managing provenance information in a heterogeneous process environment – a provenance architecture containing PROMS. *MODSIM2013, 20th International Congress on Modelling and Simulation*. Adelaide, South Australia. Pp 2506–2512.
4. Car N. 2013. The eReefs information architecture. *MODSIM2013, 20th International Congress on Modelling and Simulation*. Adelaide South Australia. Pp 831–837.
5. Car N, Hartcher M, Stenson M. 2013. Driving data management cultural change via automated provenance management systems. *MODSIM2013, 20th International Congress on Modelling and Simulation*. Adelaide, South Australia. Pp 2173–2179.

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2. Nicholas J Car, Robert A Atkinson Geofabric 12/13 Deliverable 3.3 Report. Deliverable report on issues moving to Geofabric version 3.0 (including refinement of conceptual model, and implications for product models, contracted features and product design).
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## Tools and documentation (Project 1.11)

### BOOK CHAPTERS

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## WaterML2.0 — part 2, leveraging international standards (Project 1.12)

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## WIRADA II Informatics (Project 1.13)

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2. Cox, Simon 2016. Ontology for observations and sampling features, with alignments to existing models. *Semantic Web Journal*. doi: 10.3233/SW-160214
3. Lefort L, Haller A, Taylor K, Squire G, Taylor P, Percival D, Woolf A. The ACORN-SAT Linked Climate Dataset. *Semantic Web Journal*. EP16750.

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6. Simons B., Nation E., Dahlaus P., Improving access to groundwater data using GroundWaterML2. Presented at *36th Hydrology and Water Resources Symposium (HWRS 2015)* Hobart, Dec 2015. EP152829; EP155374.
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8. Lowe D., Taylor P., Tomkins J., Cox S., Guillaud F., Hershberg P., Lindsey J., Ritchie A., Utech M., "A cross-domain standard for representing timeseries data". Full paper presented at *HWRS 2015*, Hobart, Dec 2015. EP155520.
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## 2 Foundation data publications

### One-second continental digital elevation model (Project 2.1)

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1. Van Niel T, McVicar T, Roderick M, van Dijk A, Beringer J, Hutley L, van Gorsel E. 2012. Upscaling latent heat flux for thermal remote sensing studies: comparison of alternative approaches and correction of bias. *Journal of Hydrology*, **468–469**: 35–46. doi: 10.1016/j.jhydrol.2012.08.005.

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2. Read A, Gallant J, Dowling T, Marks A. 2008. Removal of vegetation height offset in the SRTM DEM of Australia. *14th Australasian Remote Sensing and Photogrammetry Conference*. Darwin. October 2008.
3. Read A. 2009. Opportunities from the new generation elevation data for Australia. in: *7th International Conference on Geomorphology*. Melbourne. July 2009.
4. Gallant J. 2011. Adaptive smoothing for noisy DEMs. Hengl T. (ed). *Geomorphometry 2011*. Los Angeles, USA. 7–9 September 2011. Pp. 37–40.
5. Read A. 2011. A catchment conflation tool for comparing DEM derived river networks. *Geomorphometry 2011*. California, USA. 7–11 September 2011. Pp. 23–26.
6. Gallant J, Read A, Dowling T. 2012. Building the national one-second digital elevation model for Australia. *Water Information Research and Development Alliance: Science Symposium Proceedings*. Melbourne, Australia. 1–5 August 2011. Pp. 250–256.

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1. Gallant J, Dowling T, Read A, Tickle P, Wilson N, Inskeep C. 2009. Digital Surface Model (DSM) & Digital Elevation Model (DEM) USER GUIDE Version 1.0. Geoscience Australia Technical Report.
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2. Guerschman J, van Dijk A, Mattersdorf G, Beringer J, Hutley L, Leuning R, Pipunic R, Sherman B. 2009. Scaling of potential evapotranspiration with MODIS data reproduces flux observations and catchment water balance observations across Australia. *Journal of Hydrology*, **369**: 107–119. doi: 10.1016/j.jhydrol.2009.02.013.
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8. Li M, Shao Q. 2011. A nonparametric blended satellite-gauge precipitation estimation [abstract]. *Water Information Research and Development Alliance: Science Symposium*. Melbourne. 1–5 August 2011.
9. King EA, Van Niel TG, van Dijk AIJM, Paget MJ, Wang Z, Raupach T, Haverd V, Raupach MR, Zhang Y, Guerschman JP, McVicar TR, Miltenburg I, Renzullo LJ. 2011. An operational actual ET product for Australia [abstract]. *Water Information Research and Development Alliance: Science Symposium*. Melbourne. 1–5 August 2011.
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1. Fitch P. 2008. Data delivery observational services. A report for the Bureau of Meteorology. Water for a Healthy Country Flagship, CSIRO.
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