HydroNET

Thanks to a unique collaboration between QIT Plus and HydroNET Australia, the best available forecast and real time Bureau of Meteorology (BoM) weather information (including both gridded and area aggregated radar rainfall data where available) is now easily available in the Guardian Control Centre software.

HydroNET
your water control room

"We are very happy to enhance the Guardian Control Centre with real-time radar rainfall and weather forecast information. This new module enables emergency managers to further improve their response before, during and after weather related disasters."

Chris Madsen, CEO QITPlus

Benefits of gridded rainfall data

The standard method of measuring rainfall is with rain gauges. A large number of rain gauges are required to adequately capture the spatial distribution of rainfall. Insight into this spatial distribution is key to fully understand and predict where (flash) floods or other weather-related events are occurring or can be expected. Rain gauges alone also provide no real insight into forecast rainfall distribution. With gridded data from radars and weather models, rainfall information is available between gauges, providing a more complete understanding of the weather event and catchment response.

The following weather information is now available via the HydroNET-Guardian module:

- For areas with Australian radar coverage: rainfall sum for any time period (examples: the last hour, 24 hours, 3 days, week, month) per 1x1km grid or aggregated to your own defined catchments or regions.
- For all areas in Australia: forecast rainfall sum based on the BoM ADFD model for any period up to 5 days ahead per 5x5km grid or aggregated to your own defined catchments or regions.

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