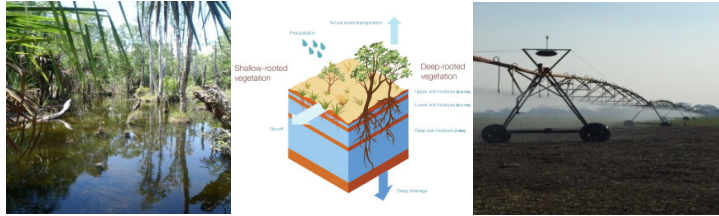


# Hands-on Training with the AWRA-CMS

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Wednesday 6<sup>th</sup> December at MODSIM 2017



*We are pleased to announce that enrolment in a one day, hands-on training course to learn to run, interact with and develop the Bureau of Meteorology's Australian Water Resource Assessment Community Modelling System, AWRA-CMS, is now open!*

**What:** *The course will cover the science of the landscape water balance model, AWRA-L, and the system and tools provided to run, calibrate and benchmark it. There will be opportunities for advanced users to ask questions and extend their own capabilities. The AWRA-CMS is freely available for users to use, evaluate and improve and the Bureau welcomes researchers*

**Who:** *Practitioners, Scientists, Researchers. 20 places will be available.*

**Where:** *Chancellor Room 5, Grand Chancellor Hotel, Hobart*

**When:** *Wednesday 6<sup>th</sup> December, 9 - 17 (during MODSIM, but you don't need to be registered for MODSIM to attend this course)*

**Cost:** *Free*

**Prerequisite Knowledge:** *Attendees need only have familiarity with hydrological modelling concepts and basic programming (in any language); however, we ask that all attendees familiarise themselves with Python and Jupyter notebooks prior to the course by following some simple online tutorials that will be provided upon registration (about 2-3 hours).*

**For Registration, please contact:** [AWRACMS@bom.gov.au](mailto:AWRACMS@bom.gov.au)

AWRA data Website: [www.bom.gov.au/water/landscape/](http://www.bom.gov.au/water/landscape/)

## Preliminary Course Outline

### Welcome and set up

8:00am to 9:00am Set up computers/ Check software installation. Instructors will be available to help with any installation issues.

*Coffee and tea will be available on arrival*

### Morning session

9:00 am to 9:15 am Introductions and Welcome  
9:15 am to 9:30 am Introducing the AWRA-CMS package and tools  
9:30 am to 10:00 am AWRA-L model scientific concepts

10:00 am to 10:30 am *Morning Tea*

10:30 am to 12:30 am AWRA-CMS tools 1: Simulation, Visualisation, Data extraction and Benchmarking

12:30 pm to 1:30 pm *Lunch*

### Afternoon session

1:30 am to 2:15 am AWRA-CMS tools 2: Setting up a calibration  
2:15 pm to 3:30 pm Putting it all in practice: Calibrating, simulating and benchmarking a region.

3:30 pm to 3:45 pm *Afternoon Tea*

3:45pm to 4:15pm AWRA-CMS tools 3: Advanced model functionalities  
4:15pm to 4:45pm Free time for participants to try further code modification or other questions  
4:45pm to 5:00pm Summary and the future of the AWRA-CMS

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The Australian Water Resource Assessment Landscape (AWRA-L) Model is a 0.05° (approximately 5 km) gridded daily water balance model developed by CSIRO and the Bureau of Meteorology for Water Resource assessment purposes. The AWRA-CMS makes the AWRA-L model readily available for users and developers by packaging together continental scale inputs, validation data and a comprehensive simulation, calibration and benchmarking system. The release of the AWRA modelling system as a community model (AWRA-CMS) provides the best means to engage the most qualified experts in each discipline in the process of refining and applying AWRA modelling system to these modelling applications. To further promote this, the Bureau of Meteorology is this year providing a training session at MODSIM for those interested in using or further developing AWRA.

