

Murchison Widefield Array: Highlights and plans

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The Murchison Widefield Array (MWA) is a low frequency radio telescope located in the radio quiet Murchison shire of Western Australia. It is run by a consortium of institutions from 6 countries. The MWA is a designated low frequency precursor to the future international Square Kilometre Array radio telescope.

The MWA has been in full operation since mid 2013. After completing 6 observing semesters, the MWA has now collected over 10 PB of data serving dozens of science programs, including its 4 key observing programs: Epoch of Reionisation program, the GLEAM all-sky survey, solar monitoring and the transient/variable source program. In September 2016 the MWA Phase II upgrade was completed, adding new antenna tiles and reconfiguration options for the array. This talk will present an overview of the MWA, the highlights of the first three years of operations, the status on our key science projects and details of the MWA Phase II upgrade.