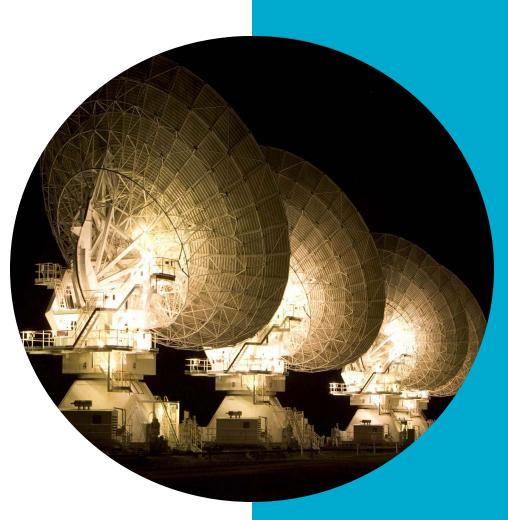


Director's Update

Douglas Bock ATUC April 2024 Australia's National Science Agency





Understanding the Universe

Astronomy enables humanity to better understand our Universe and contributes to building future industries.





Australia Telescope National Facility (ATNF)



International SKA project 🚺

Inyarrimanha Ilgari Bundara, our Murchison Radio-astronomy Observatory

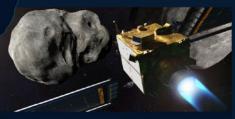
ASKAP radio telescope Wajarri Country

Technology development

Australia Telescope Compact Array Gomeroi Country

Mopra radio telescope Gamilaroi Country

Parkes radio telescope, Murriyang Wiradjuri Radio astronomy research



Broader space applications



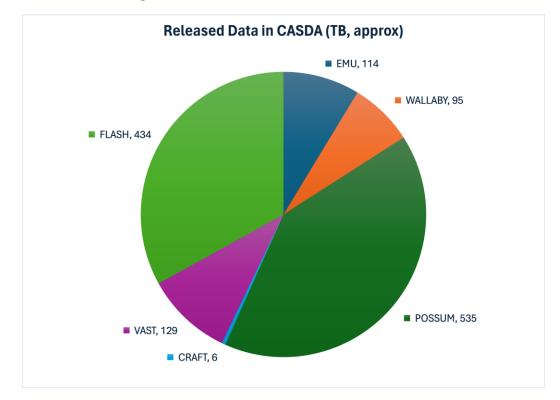
- Highlights, status, updates
- Management goals for 2024
- Strategy

ASKAP Surveys – completion fractions

EMU	19%
WALLABY	2%
POSSUM	8%
VAST	24%
FLASH	8%
	09/
GASKAP-HI	0%
	0%
JASKAP-UH	070
DINGO	0%
gaskap-hi Gaskap-oh Dingo	0% 0% 0%

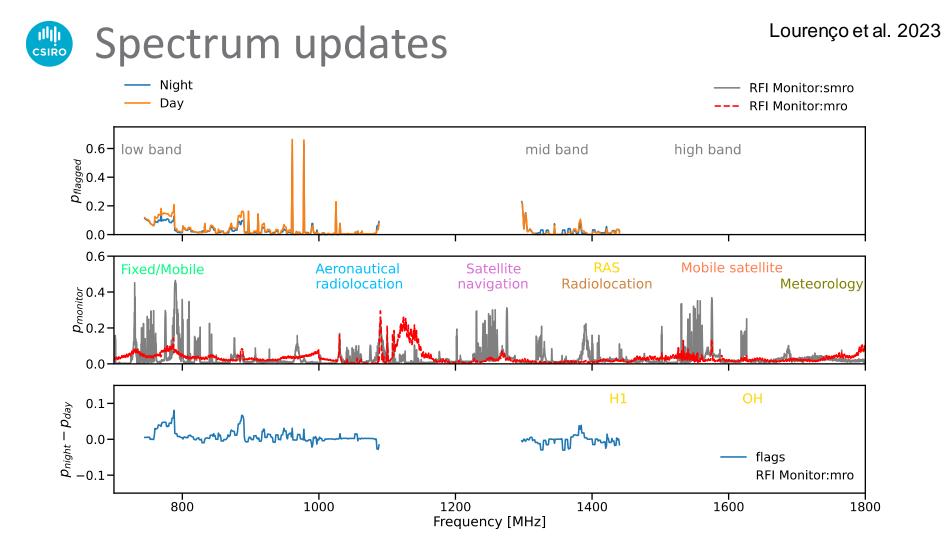
Approximate completion fraction, based on released observations as of 8 April 2024

ASKAP Surveys – released data



Approximate volume released by SSPs as of 8 April 2024 Small fraction of total CASDA data volume (~5.4 PB)

Murriyang tracking Odysseus



RAS Awards 2024



Royal Astronomical Society

Jackson-Gwilt Medal

(Astronomy)

Dr Keith Bannister & Professor Ryan Shannon



The first antennas of the SKA-Low telescope were deployed on 7 March





Current Projects – Talks & discussion

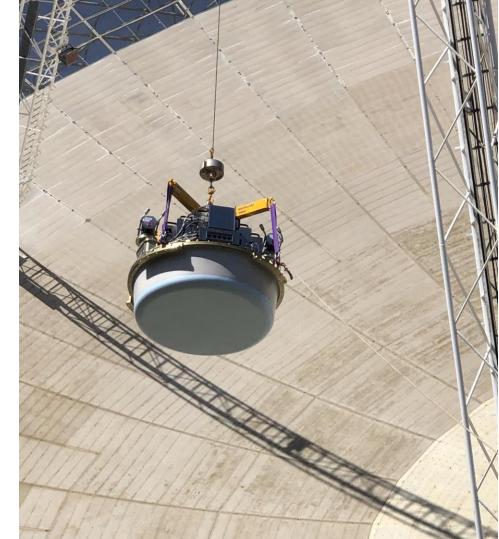
- CRACO (FRBs at ASKAP) complete
- CryoPAF for Parkes teething problems

 Cryogenic issues identified.
- BIGCAT on telescope testing this week.
 O Installation later in 2024.

Proposed New Projects – Talks & discussion

- ASKAP upgrade
- LAMBDA VLBI Demonstrator

 Low frequency VLBI with SKA1-Low
- UWB mid & High for Parkes





- Overhaul of ATNF Website coming soon
- Accessibility Upgrade at Parkes VC completed
- Dish Café currently closed
- ASKAP on-site staffing: progress with recruitments



Long term projects

Introduced in the last semester. Projects requiring 3+ semesters of allocated time.

- Seven submitted and accepted all converted from previous programs
- Four have CSIRO PIs
- For ATCA, 3 projects are NAPAs

Long term proposals received included:

- Two pulsar timing projects with Parkes
- Follow-up of ASKAP surveys and transient events with ATCA
- Asteroid radar programme with ATCA
- Monitoring of high energy sources with ATCA

Project teams expected to submit annual progress reports at December deadline

- Template to be provided (TAC considering draft in their July meeting)
- Contact person for Long Term Projects is Ivy Wong

Community Engagement

- CSIRO Radio School 2024 will be held in Geraldton, WA during the week of **30 September – 4 October**, co-hosted by ICRAR and SKAO
- Save the Date: ASKAP Cutting Edge Symposium will be held online during the week of **18-22 November 2024**





Proactively engage in the Astronomy Decadal Plan process

Review engagement with users and stakeholders

Determine our position on international issues (ESO, VLBI)

Reliably deliver high quality science data to ASKAP survey teams and users

New technology (BIGCAT and CryoPAF) installed and commissioned

Decision on next instrumentation projects

Develop a strategy for education and outreach

Identify strategies to support our activities post-2028





SKA goals

Site Entity Deed negotiations concluded

Hire ~30 diverse and talented people to join the SKA Low team

Assure a safe construction site

Boolardy airstrip upgrade

AusSRC international network aligned and productive

Strengthen relationships between the many stakeholders involved





Strategic positioning

- ASKAP maximise impact of surveys
 - (test for upgrade path) to align with SKA-Mid capability
- ATCA transition (largely superseded by SKA-mid ~2028)
- Parkes Enhance; continue space tracking
- cm-VLBI transition
- m-VLBI develop
- Technology maintain to support SKA and global RA