I acknowledge the Gomeroi people, the Aboriginal traditional Owners of the land of the Paul Wild Observatory and pay my respects to Elders past, present and emerging. I recognise their connection to Country and their role in caring for and maintaining Country over thousands of years. May their strength and wisdom be with us today.

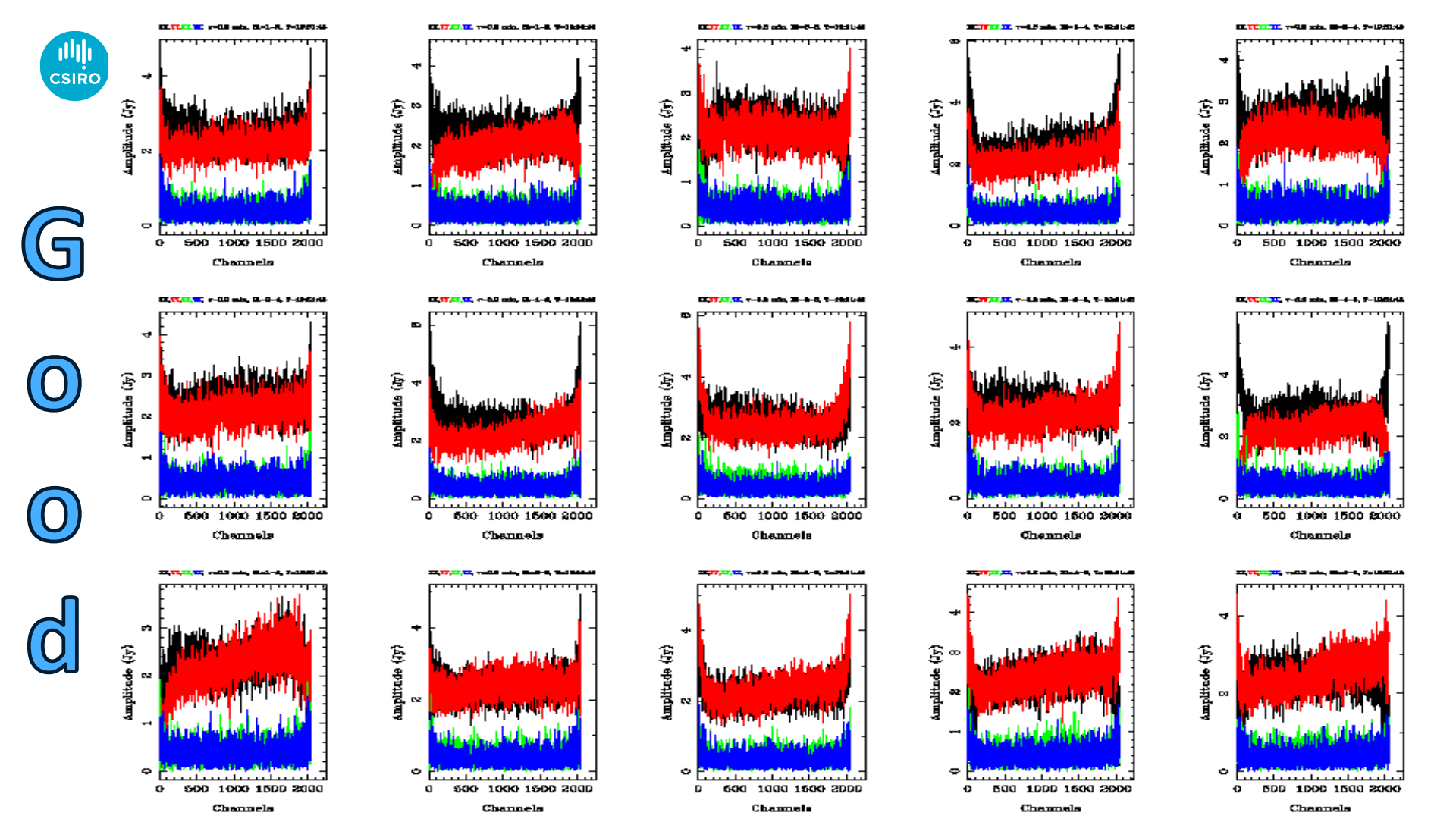
ATCA Update

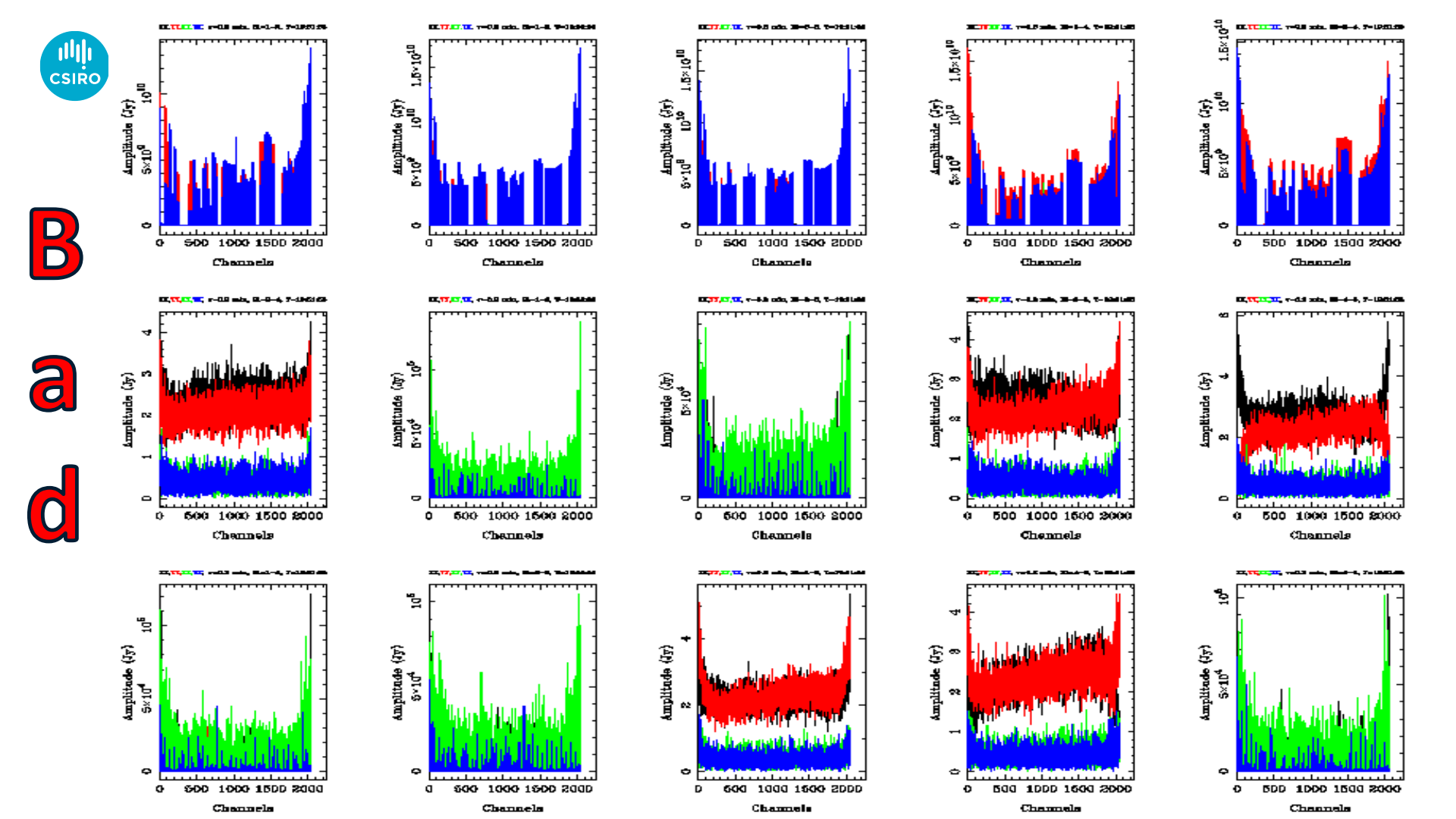
ATUC October 2023

Jamie Stevens | 2023-October-23

CABB Status

- Change to CABB status
  - 9 blocks (4 in IF1, 5 in IF2) are incapable of forming reliable zoom bands (cf. 4 bad blocks last meeting)
  - Continuum bands still producing reliable data
  - Pulsar binning mode remains unavailable
- 64 MHz zooms observations are scheduled in 2023OCT, are being affected by bad blocks
- VLBI mode scheduled and still working as expected


Good
Amplitude (Jy)
Channels
0
500
1000
1500
2000

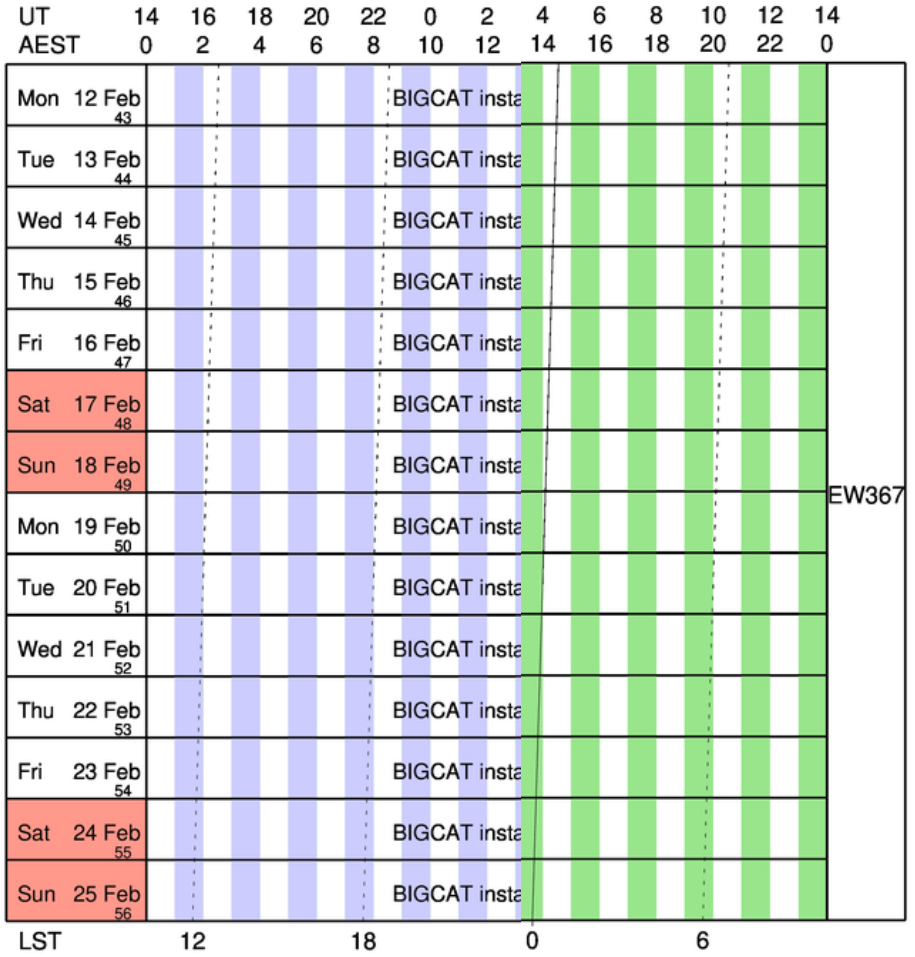

Bad
Amplitude (Jy)
Channels
0
500
1000
1500
2000

BIGCAT

- Servers have been purchased and delivered
- Development continues
  - Xinping Deng left CSIRO, Ian Morrison has taken over as correlator engineer

BIGCAT Timeline

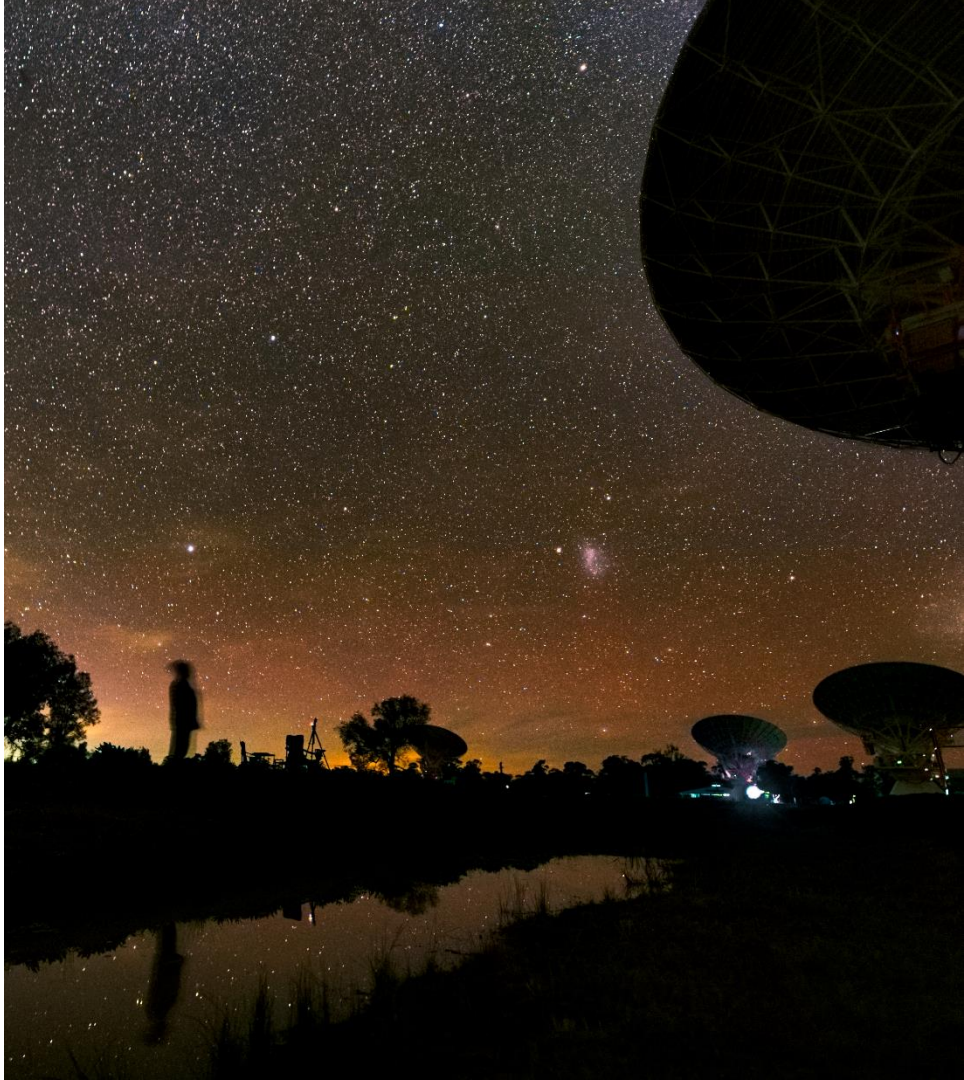
- We are in the process of evaluating when BIGCAT will become available
- Version 2 of ATCA 2023OCT schedule, where more projects will be scheduled in Feb/Mar 2024, will be released in November



Thank you

Astronomy and Space Science
Jamie Stevens
ATCA Senior Systems Scientist

+61 2 6790 4064
jamie.stevens@csiro.au
www.narrabri.atnf.csiro.au



Statistics

Project allocations for “normal” projects (who expect to get time in a single semester, excluding NAPA).

	2022APR	2022OCT	2023APR	2023OCT
# of Proposals	40 (2441 hr)	33 (2130 hr)	26 (1905 hr)	31 (2628 hr)
Cutoff Grade	3.2	3.1	3.0	3.5 (so far)
Projects 90 – 100%	26	27	24	22
Projects 40 – 90%	3	0	0	2
Projects < 40%	3	3	0	2
Projects 0%	8	5	2	5

ASKAP-related projects

	2022APR	2022OCT	2023APR	2023OCT
# of Proposals regular	40 (2411 hr)	33 (2130 hr)	26 (1905 hr)	31 (2628 hr)
# ASKAP-related regular	4 (176 hr) [7.3%]	8 (349 hr) [16.4%]	6 (400.5 hr) [21.0%]	4 (444 hr) [16.9%]
# of Proposals NAPA	25 (1461 hr)	26 (1811 hr)	24 (1797 hr)	22 (1426 hr)
# ASKAP-related NAPA	1 (120 hr) [8.2%]	1 (120 hr) [6.6%]	1 (120 hr) [6.7%]	1 (120 hr) [8.4%]

NAPA Allocation

Semester	NAPA/ToO (hours) **	NAPA %	ToO %	ASKAP %
2023APR	585 (18.9%)	70.3	29.7	0.0
2022OCT	437 (14.4%)	79.0	21.0	6.5
2022APR	425 (13.7%)	65.6	34.4	7.6
2021OCT	555 (17.9%)	66.6	33.4	19.8
2021APR	528 (17.0%)	70.5	29.5	9.2

** Percentages in “hours” column represent the fraction of the usable semester, which is roughly 3100 hours.