

ATUC Members

- Ramesh Bhat, Curtin (Chair)
- Miroslav Filipovic, WSU
- Ryan Shannon, Swinburne \bigstar
- Emil Lenc, CSIRO ☆
- Bi-Qing For, UWA
- Nickolas Pingel, ANU
- Martin Bell $UTS \bigstar$
- Michelle Cluver, Swinburne
- Yuanming Wang, USyd (student)
 Philippa Patterson, UWA (student)
- Cormac Reynolds, CSIRO (secretary)



Director's update

ATUC | Douglas Bock | 18 November 2020

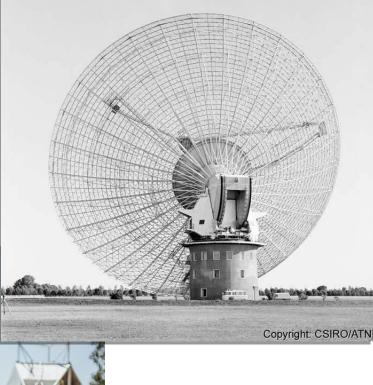
Australia's National Science Agency

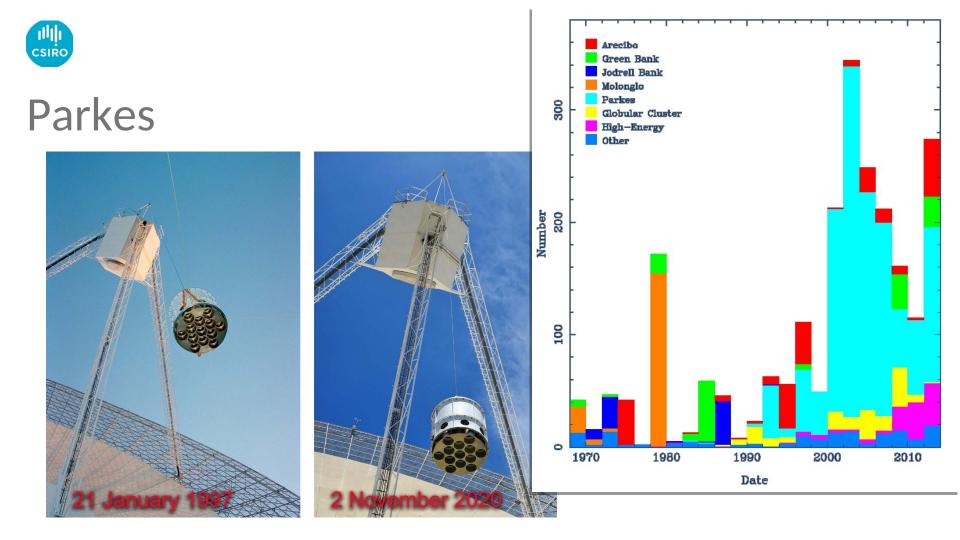


Murriyang

- National icon
- Wiradjuri name









ASKAP news

- Pilot surveys complete
- Pawsey centre
 - Ingest nodes contract let
 - Supercomputer vendor announced

Meet Pawsey's new supercomputer

The new HPE Cray EX supercomputer will have:



50 petaFLOPs raw compute power

750+ AMD GPUs



548+ terabytes of memory

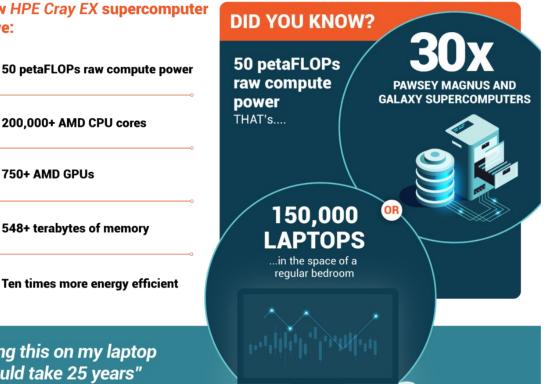


Ten times more energy efficient

"Doing this on my laptop would take 25 years"

Dr Chenoa Trembley, Astrophysicist - CSIRO







Astronomy decadal plan mid-term review

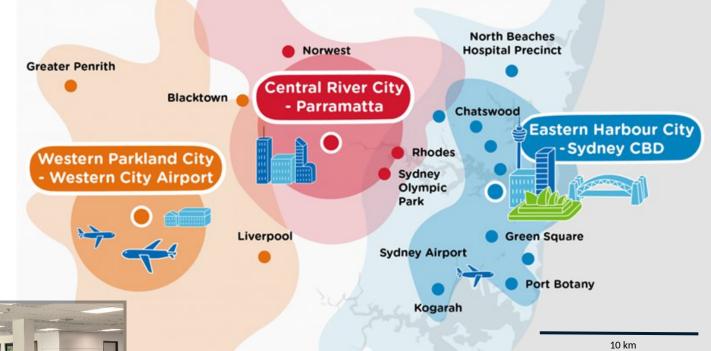
Recommendations include:

- Pursuing realisation of the SKA
- Maintaining support for instrument development
- Establishment of data centres for all of Australian astronomy
- Continue pursuing avenues to support domestic facilities

"The ATCA and Parkes will remain workhorses for the radio astronomy community over the next five years, providing an essential multi-wavelength complement to ASKAP, and supporting the growing need for radio follow-up of multi-wavelength and multi-messenger triggers from world-wide facilities. Furthermore, these facilities provide testbeds for radio astronomy instrumentation and opportunities for students to develop their skills. The availability of the ATCA and Parkes to the international community leverages access by Australian astronomers to extremely powerful international facilities such as the Jansky VLA"



Site news







Diversity and Inclusion

- Committee membership refreshed [EoI] and meeting regularly (lead Kevin Ferguson in Perth)
 - CASS Director is the sponsor
- Anonymous review of proposals
- CASS annual action plan going to the CASS Executive shortly
 - Focus areas include recruitment and measurable targets aligned with CSIRO's SAGE targets
 - Actions with owners, who have time allocated as part of their "day job"

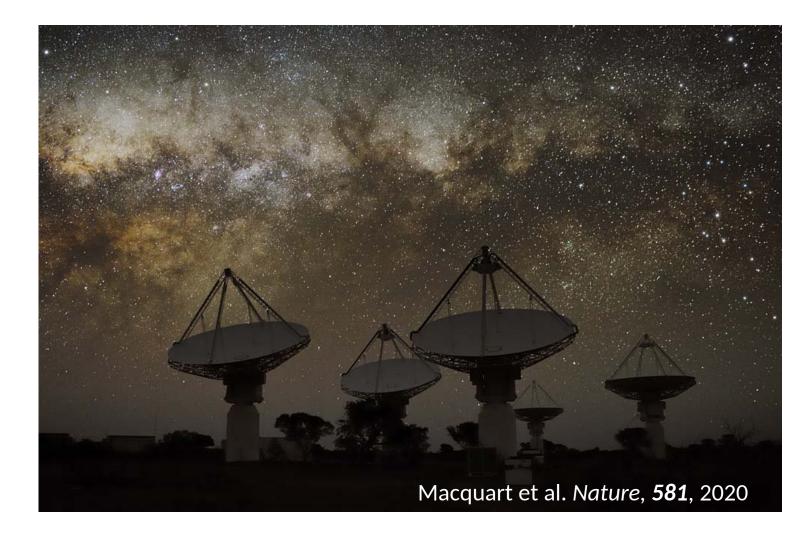
Incidents (July 2019-June 2020) – all CASS

Categories	2019/20
1 Inappropriate language, insensitive comments, raised tone (single incident)	3
2 Repeated Cat 1 behaviour	1
3 Bullying, unwelcome sexual behaviour/comments	1
4 Repeated Cat 3 behaviour, unwelcome sexual contact	-
5 Serious misconduct, sexual assault	

Notes: CASS staff = ~285 people (ATNF + CDSCC + New Norcia + Space); two cases (cat 1, 2) still being addressed; others closed.

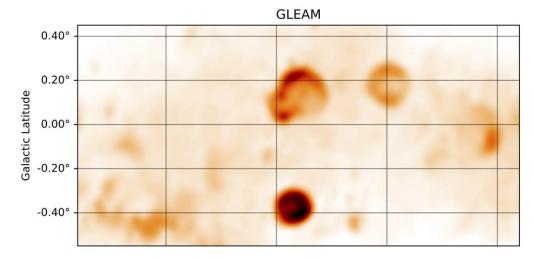


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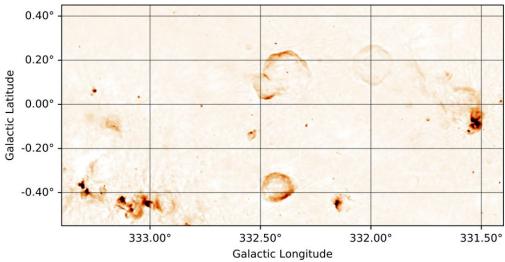




Rapid ASKAP Continuum Survey



RACS



McConnell et al. PASA (accepted)



Key issues for this meeting

- ASKAP Surveys
- LIEF proposals
- Parkes Science Case



Thank you

Business Unit Name

Presenter Name Presenter Title

+61 2 9123 4567 firstname.surname@csiro.au csiro.au/lorem **Business Unit Name** Presenter Name Presenter Title

+61 2 9123 4567 firstname.surname@csiro.au csiro.au/lorem

Australia's National Science Agency



SKA treaty

- Sept 2020 Australia ratifies SKA Treaty
 - Dec 2020 IGO formed



- Sep 2020 Hosting Agreements endorsed by CPTF
 - By Sept 2021 Ops Collaboration contract with SKAO signed
- Sept 2020 Construction Proposal endorsed by SKA Board
 - By July 2021 construction approved by Council funds committed
 - By early 2022 on-site construction commences
- 2023 SKA1-Low 'on sky' commissioning 6 stations AA0.5
- 2028 'go live' for SKA1-Mid and -low



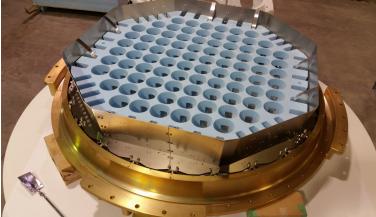
Receiver sale

- Ultra-wideband receiver for Arecibo
 - \$4.2m
 - In contract negotiation
 - Sole supplier

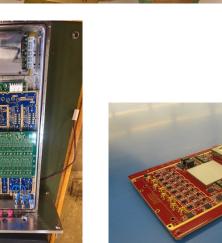


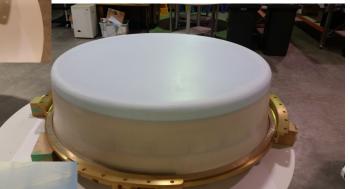


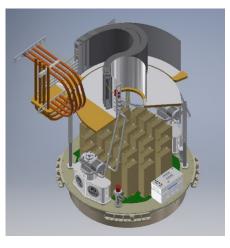
Parkes CryoPAF













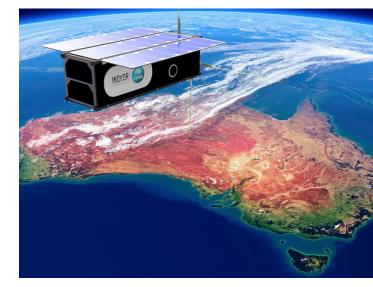
VIP visits





Space

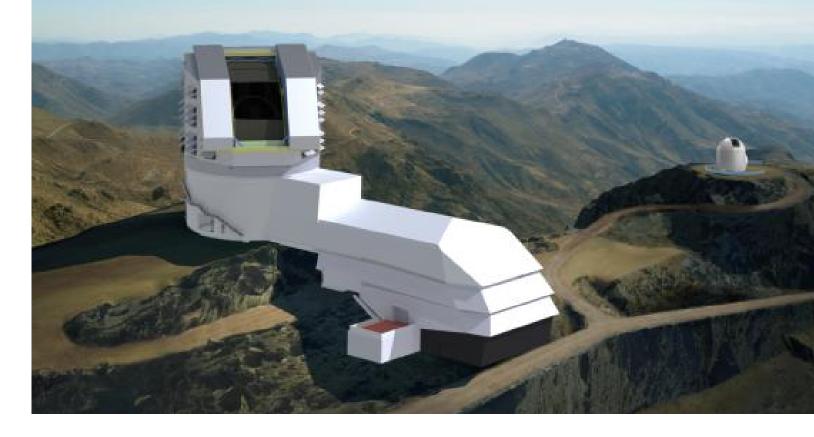
- 3 space projects in ATNF funded through CSIRO Future Science Platform:
 - PAF commercialisation for satellite comms
 - CSIROSat-1 using ATNF engineering expertise
 - Planetary science payload feasibility study
- Other space activities:
 - Space situational awareness project with Boeing
 - Asteroid radar with CDSCC







Next big thing

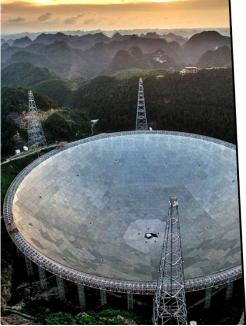


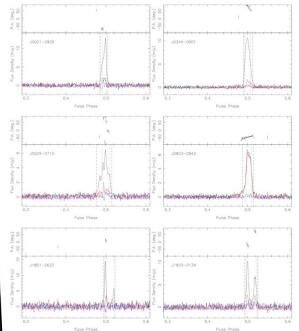


Science highlights



Parkes & FAST







Cameron et. al. *MNRAS*, **495**, 2020 Lei et al. *ApJ*, **877**, 2019



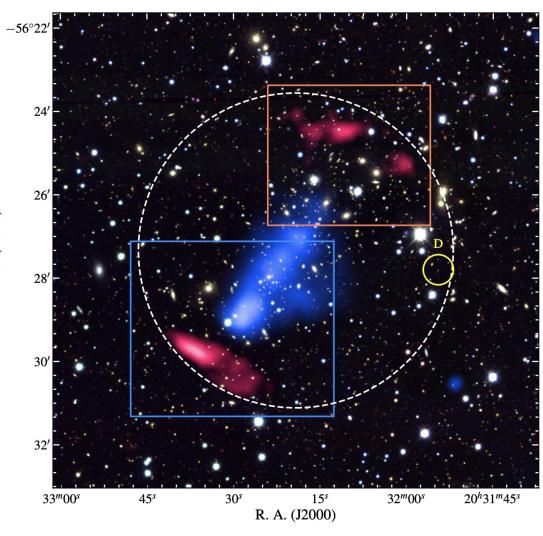
Parkes & FAST

Luo et. al. Nature, 2020



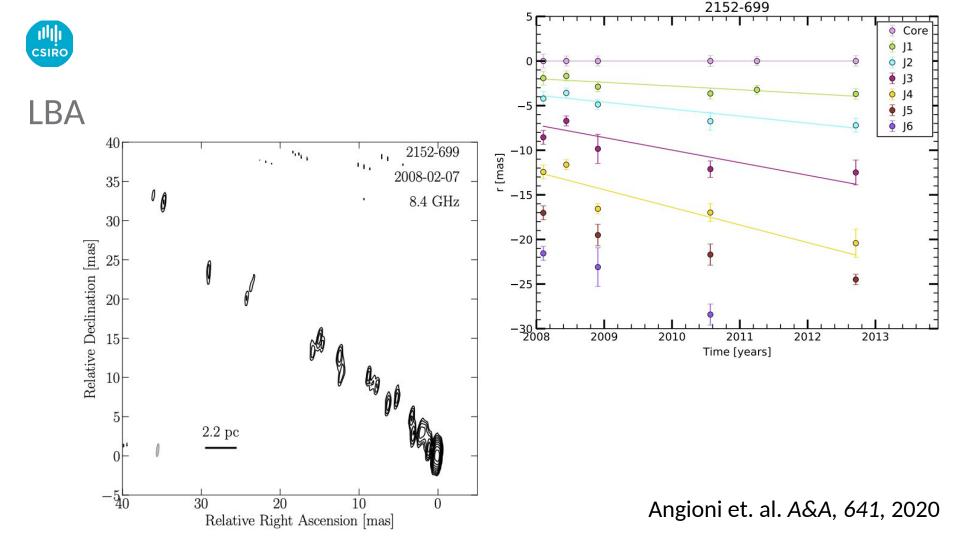


ATCA & ASKAP



Decl. (J2000)

Duchesne et al. PASA (accepted)





Finance



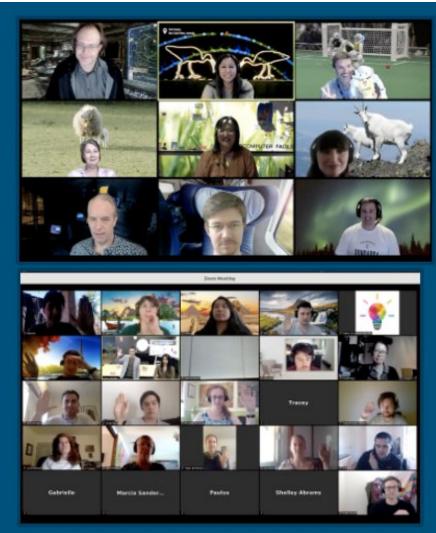
Finance

Table 1.	ATNF Overall Position					
	19/20	*20/21	*21/22	*22/23	*23/24	
	Revenue					
	17,200,00	15,756,00	17,704,00	17,765,00	17,765,00	
Appropriation	0	0	0	0	0	
Research Plus Funding	1,465,000	1,449,280	1,349,600	1,346,240	1,400,000	
Capital Funding	1,823,000	3,100,000	2,100,000	2,100,000	2,100,000	
	16,648,00	19,128,10	24,674,60	29,339,88	29,409,16	
External Revenue	0	2	8	5	5	
	37,136,00	39,433,38	45,828,20	50,551,12	50,674,16	
Total Revenue	0	2	8	5	5	
	Expenditure					
	24,098,12	24,173,25	26,703,39	27,747,76	28,124,88	
Payroll Costs	3	6	0	0	4	
	13,246,45	13,353,93	17,688,70	21,739,01	21,909,18	
OPEX Costs	6	8	2	8	1	
Capital Labour	500,000	1,800,000	1,200,000	1,200,000	1,200,000	
Capital Materials	1,323,000	1,300,000	900,000	900,000	900,000	
	39,167,57	40,627,19	46,492,09	51,586,77	52,134,06	
Total Expenditure	9	4	2	8	5	
Operating Result (+) Surplus, (-) Deficit	-2,031,579	-1,193,812	-663,884	-1,035,653	-1,459,900	
Approved CSIRO Operating Result	-1,885,000	-940,000	-940,000	-940,000	-940,000	
Variance on Approved	-146,579	-253,812	276,116	-95,653	-519,900	

Operating Result

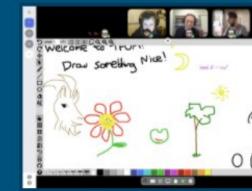


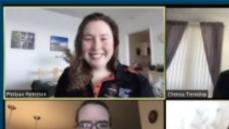
HR

















Rutrition

AW8/K