



ATNF Science

Phil Edwards &
Elaine Sadler
ATUC 8 Nov 2021

Australia's National Science Agency



Image credit: Kevin Ferguson

Outline

- Staff changes
- Recent science highlights
- ATNF Science Strategy
- Vacation students & student program
- Call for Proposals

Staff changes

ATNF Science has recently farewelled

- Dave McConnell
- Shivani Bhandari
- Hayley Bignall

and welcomed

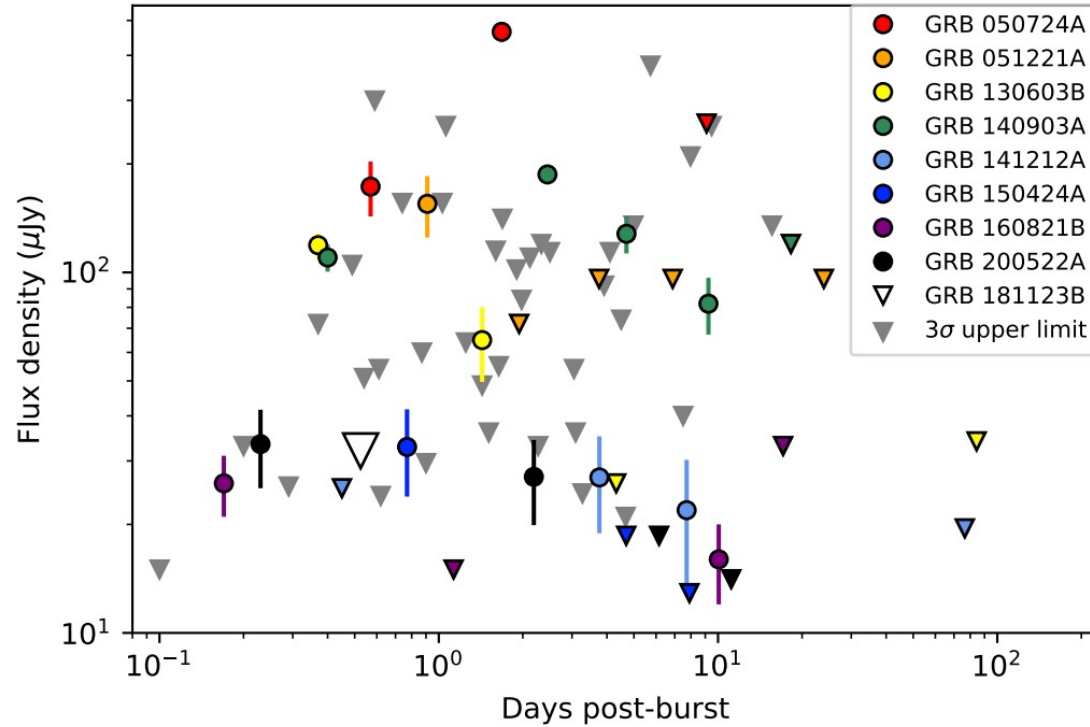
- Elham Bagheri
- Laura Driessen
- Marcus Lower

<https://www.atnf.csiro.au/ATNF-DailyImage/archive/2021/01-Oct-2021.html>

<https://www.atnf.csiro.au/ATNF-DailyImage/archive/2021/22-Oct-2021.html>

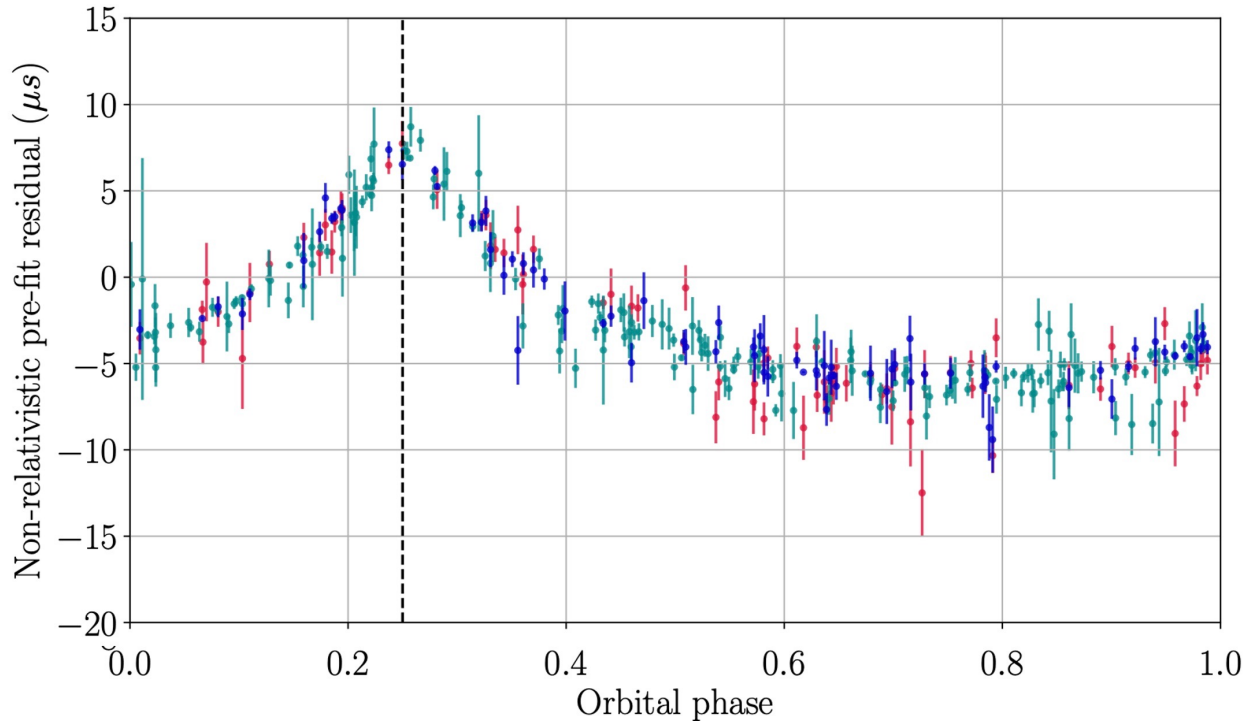
<https://www.atnf.csiro.au/ATNF-DailyImage/archive/2021/08-Nov-2021.html>

ATCA rapid follow-up



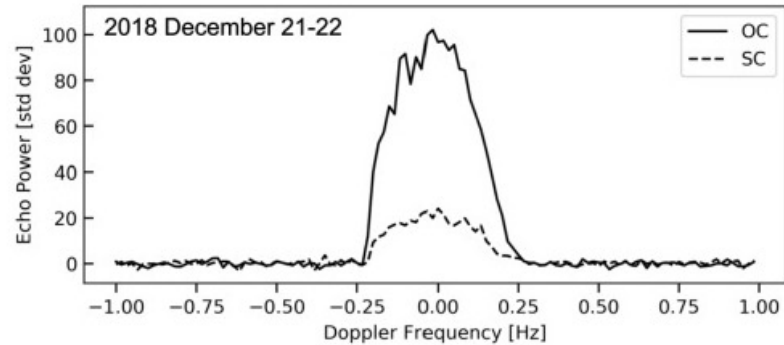
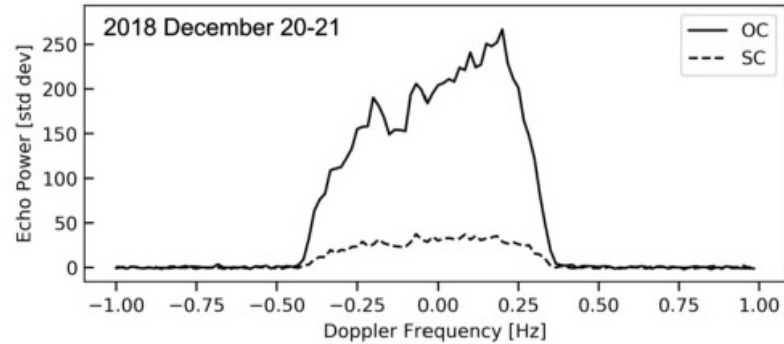
Anderson et al. 2021 MNRAS

Parkes Pulsar Timing Array DR2

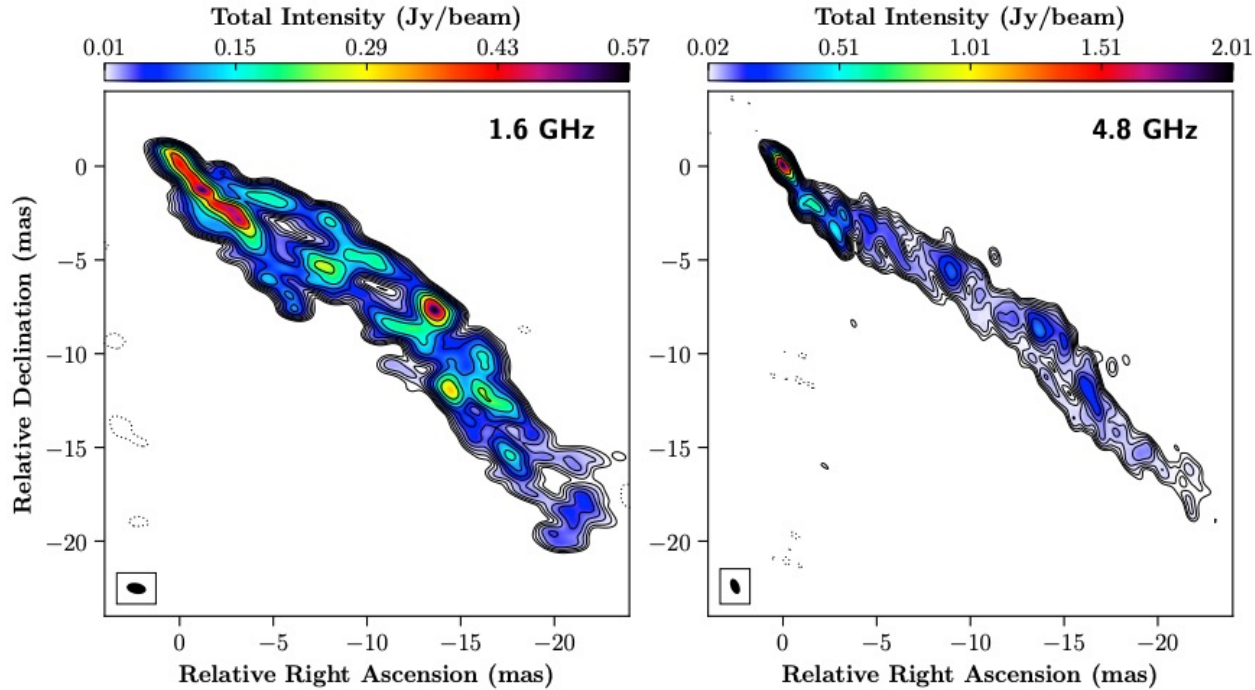


Reardon et al. 2021 MNRAS

Bistatic radar observations of 2003 SD220

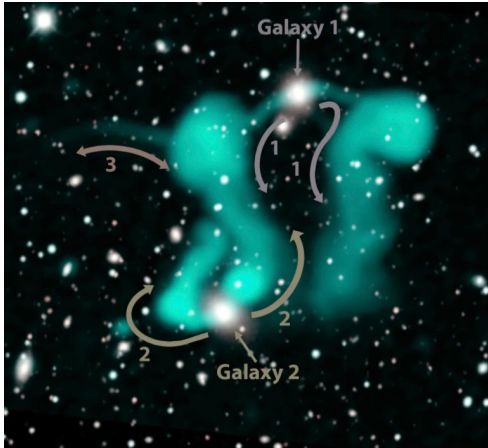


A spine-sheath jet structure in 3C273

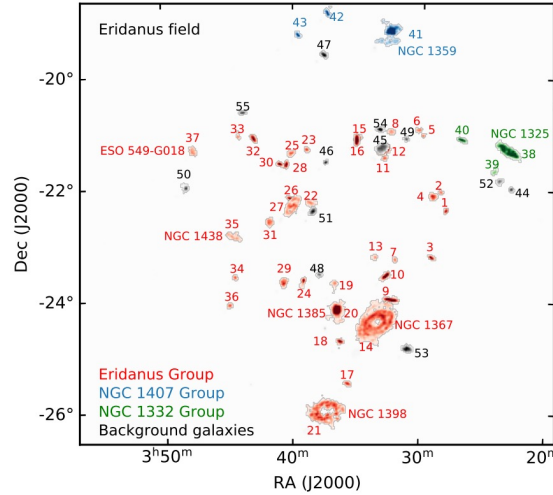


Bruni et al. 2021 A&A

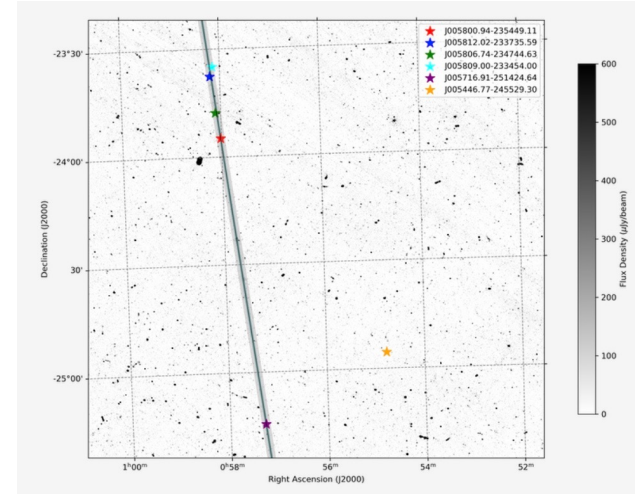
ASKAP papers



Norris et al. 2021



For et al. 2021



Wang et al. 2021

44 ASKAP papers published, in press, or submitted in 2021

<https://www.atnf.csiro.au/projects/askap/askap-publications.html>

Parkes turns 60

As it was not possible to celebrate in the same way as Parkes' 30th, 40th and 50th anniversaries, written and video reminiscences and recollections are being gathered. Contributions from all Parkes users and staff welcomed!



<https://www.atnf.csiro.au/research/Parkes60th/index.html>

ATNF Science Strategy

As discussed with ATSC at their May 2021 meeting, update to ATSC at Oct 2021 meeting

Research priorities as we move into the SKA era include:

- Deliver world-class science from ASKAP
- Provide high-quality training in radio astronomy for students and postdocs
- Promote engagement by Australian astronomers in SKA science
- Develop and strengthen research collaborations with Australian universities and SKA partners

Actions for next 1-2 years:

- Review the current national facility operations/support model →
- Set up more structured commissioning teams for new instruments →
- Establish a cross-ATNF 'RFI mitigation' working group - Done
- Cutting Edge symposium on 'VLBI in the SKA era' - Scheduled for 14-18 Feb 2022
- Review and possibly restructure our student program - Waiting on support model discussions

In progress – ATUC views requested

Developments 2021-30:

- Build new low-VLBI pathfinder and explore mid-VLBI options for SKA
- Major upgrade to ASKAP by 2030 (community consultation ~2024-25)



Vacation students

- 14 students (10 female, 4 male)
- Based at Marsfield, Kensington and Tidbinbilla
- ATCA observing trip is planned for east coast students...



2020/21 vacation students

Call for Proposals

- Call for Proposals for 2022APR will be released next week
- We plan to use a new version of OPAL from this round
- There will be greater anonymisation, with the names of proposal team members not listed in the proposal
- *Proposers are asked not to list their team members in the scientific justification*
- PIs will be asked to give permission for the anonymised proposal outcomes to be used in the study
- Proposal deadline for 2022APR will be Wed Dec 15, 5pm AEDT



Thank you

CSIRO Astronomy and Space Science

Phil Edwards, Program Director ATNF Science

Elaine Sadler, ATNF Chief Scientist

+61 2 9372 4300

Philip.Edwards@csiro.au

Elaine.Sadler@csiro.au

www.atnf.csiro.au