



# ATNF Science

Phil Edwards &  
Elaine Sadler  
ATUC | 30 October 2019

Australia's National Science Agency



*Picture credit: CSIRO/Alex Cherney*

# ATUC Science Day

- Pilot Surveys Overview Vanessa Moss
- Data Processing Matthew Whiting
- POSSUM Jennifer West
- EMU Josh Marvil
- RACS Catherine Hale
- CRAFT Ryan Shannon
- VAST Adam Stewart
- Gravitational Waves Tara Murphy
- GASKAP Nickolas Pingel
- WALLABY Karen Lee-Waddell
- DINGO Jonghwan Ree
- FLASH Elaine Sadler

# Outline

- ATUC Science Day
- Staff changes
- Recent science highlights
- ATNF student program
- Radio School
- ATCA Science Strategy
- University Engagement
- Web pages & CSIRO Radio Astronomy Image Archive
- Anonymised review

# Staff changes

ATNF Science has recently farewelled

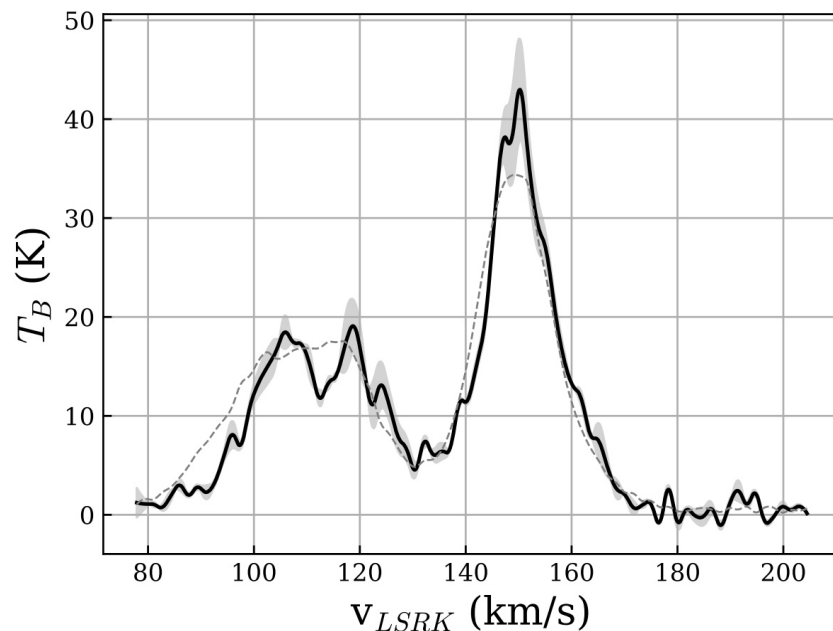
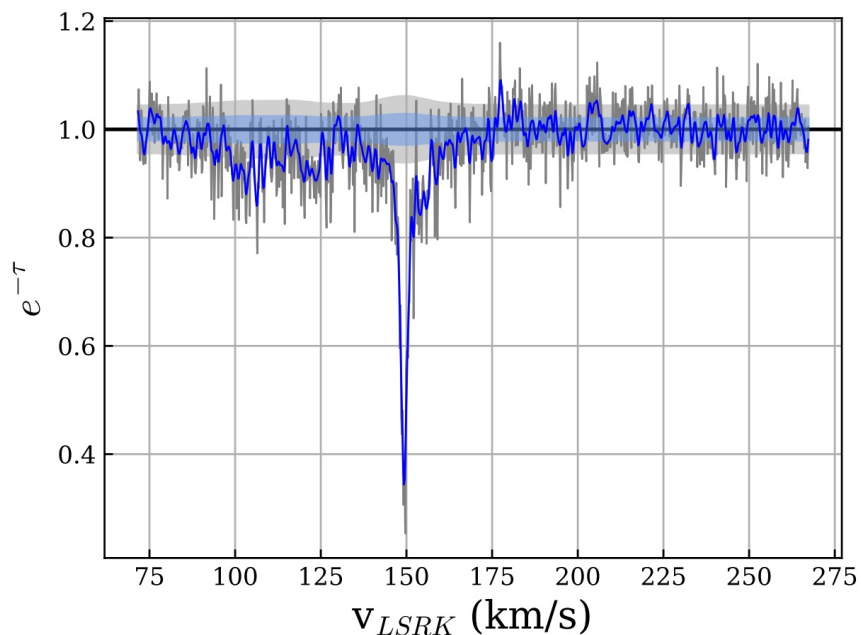
- Craig Anderson
- Gulay Gurkan
- Chris Riseley
- Andrew O'Brien

and welcomed

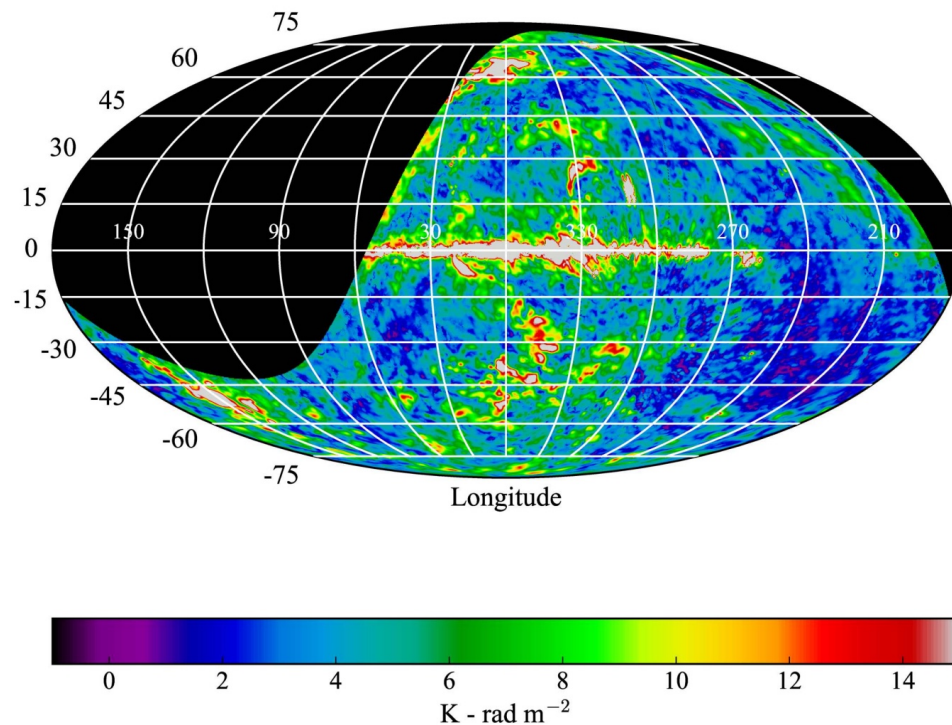
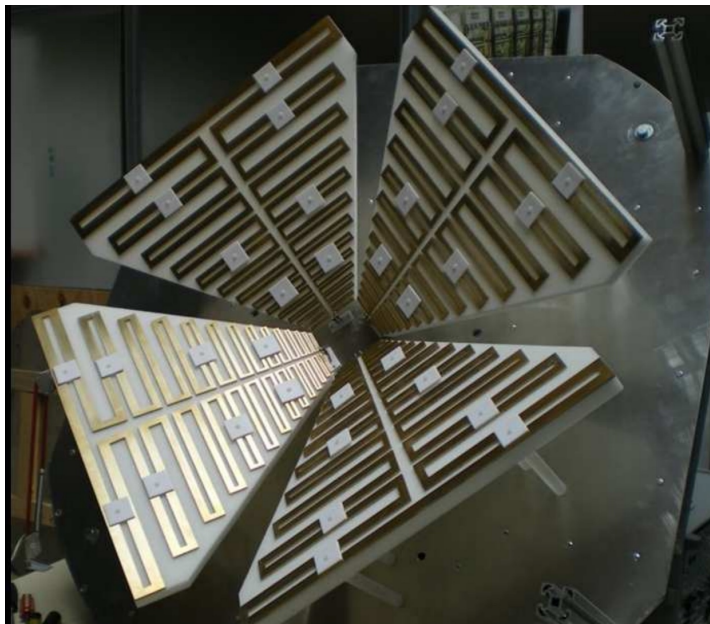
- Vanessa Moss
- Rui Luo
- Catherine Hale

# ATCA – Jameson et al.

Source 003824-742212

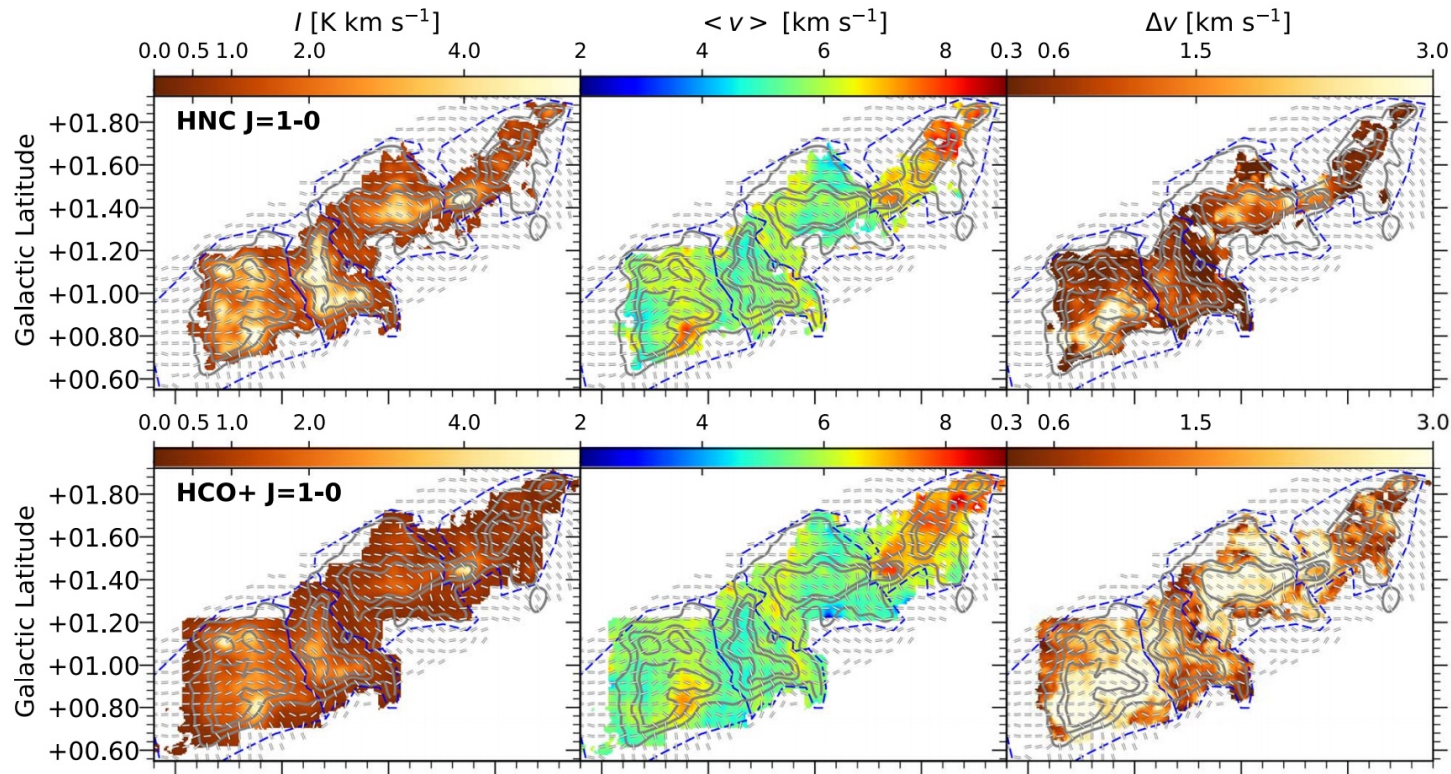


# Parkes – Wolleben et al.

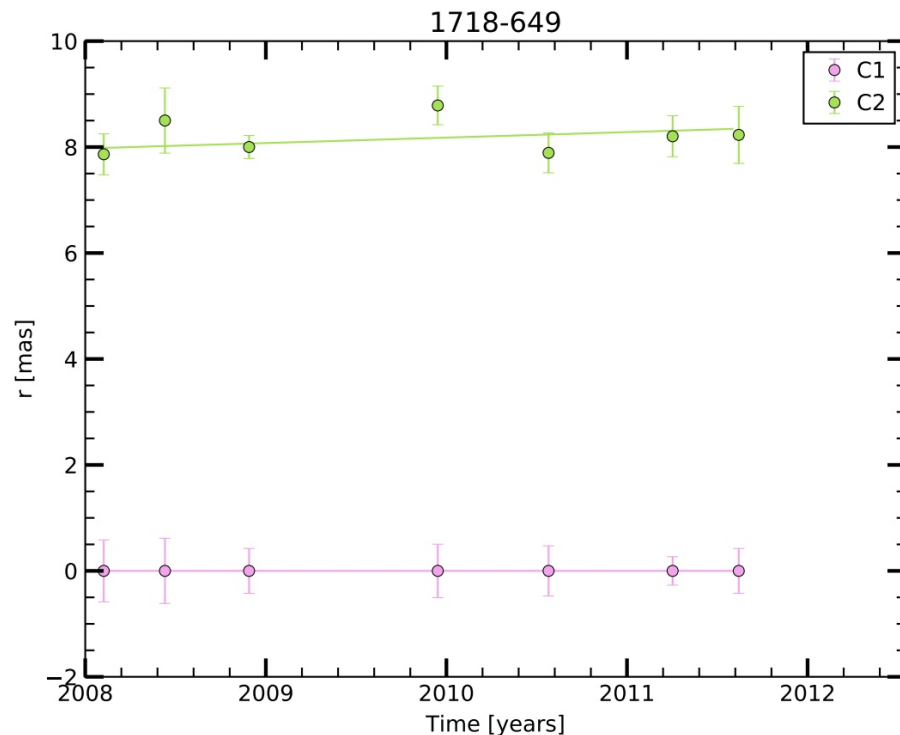
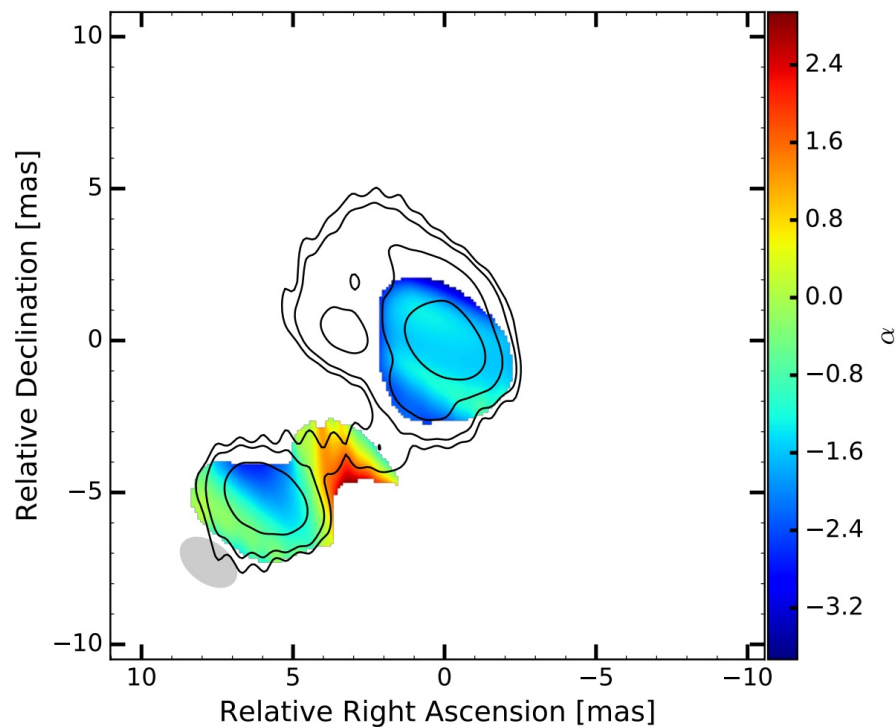




# Mopra – Fissel et al.



# LBA – Angioni et al.



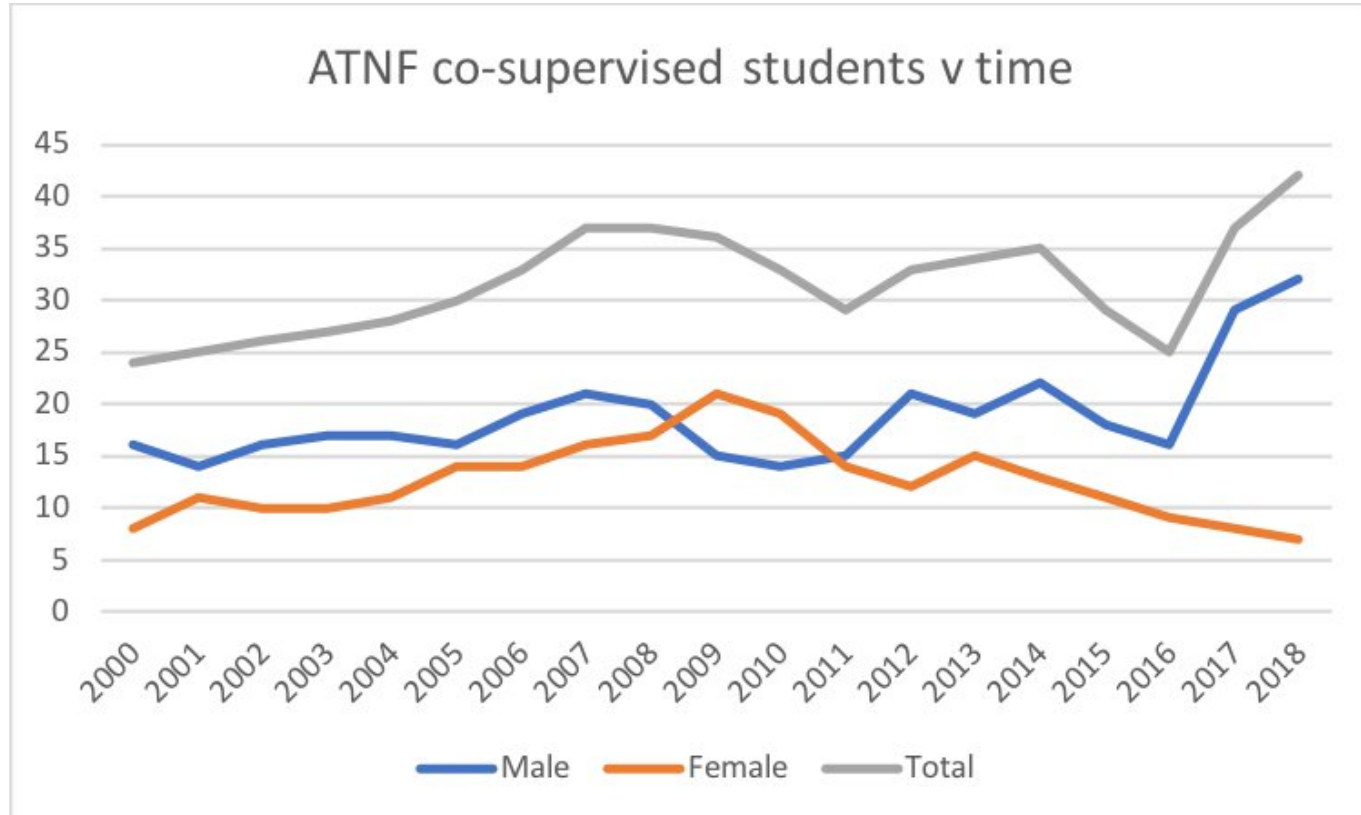
PKS 1718-649



# ATNF Student Program

- Since 2000, there have been 195 students join the ATNF student program as co-supervised students
- Just under 150 have been affiliated with an Australian University
- Students have come from 16 different Australian Universities
- Sydney Uni and Swinburne have had the highest participation
- Just under 50 have been affiliated with an overseas institution
- Students have come from 13 different countries
  - Canada, Chile, China, France, Germany, India, Italy, Japan, Netherlands, New Zealand, Sweden, UK, USA

# ATNF Student Program





# Radio School

Credit to

- Chenoa Tremblay
- George Heald
- Jamie Stevens
- Jane Trindall
- All ATCA staff
- All speakers
- All students



# ATNF Science Strategy

- 2016 document on 'Science with the ATCA in the next 5-10 years' currently being updated (MTR discussions are relevant)
- MTR recommendation likely to be that ATCA should be kept operational to at least the end of 2016-25 DP period, given SKA1 delay
- Changes in the types of science done (lots of transient proposals)
- Nature (and number) of follow-up proposals from ASKAP not yet fully clear
- Plan to review current Legacy projects, but long-term proposals can be submitted at any time

# University Engagement

In recent years CASS has had joint appointments (JAs) with ANU, Curtin, Macquarie & UWA and a variety of other adjunct appointments.

Average Staffing Level constraints open the door to consider new joint initiatives.

The advantages of Joint and Adjunct Appointments include:

- the opportunity to strengthen relationships with Universities
- the attraction of PhD students into the co-supervision program
- (for JAs hosted by Universities) appointees may be eligible for ARC grants.

Among the challenges are:

- JAs hosted by Universities have different status within some CSIRO systems
- finding a balance between the two institutions, esp. with teaching/tutoring

# ATNF web pages

- The aim is to have all pages with “Last updated” and “Page maintained by” information
- A review of the ATNF pages is currently being undertaken
- The CSIRO Radio Astronomy Image Archive is now accessible on-line again
- Call for Proposals for 2020APR will be released in mid-Nov  
<http://www.atnf.csiro.au/observers/apply/avail.html>
- Proposal deadline will be 5pm AEDT Monday December 16th



To download a *low resolution* version of the image right click on the image  
and select 'Export Field Contents'

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Catalogue **ATNF\_archive**

Year **1954** Date **5/11/1954**  
(dd/mm/yyyy)

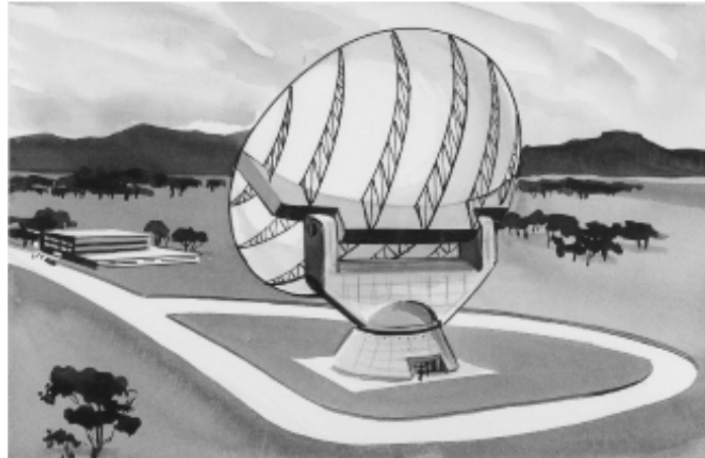
Site where image  
was taken **Parkes**

Packet  
information

Parkes Antenna - Artists impression of  
radiotelescope designs

*Information written on the original packet of  
negatives that included this image*

The "Giant Radio Telescope"



Individual

Caption

One of the designs prepared when planning the large single steerable parabolic antenna that would eventually result in the 64m Parkes Radio Telescope. [wo]

# Anonymised review of proposals

- In September, the Australian Government Women in STEM Ambassador, Lisa Harvey-Smith, wrote to Douglas inviting ATNF to participate in a peer-reviewed trial of anonymised proposal review to aid the removal of structural barriers to the career progression of Women in STEM
- Douglas replied supporting the initiative and noting that ATNF is currently considering implementing a system similar to that of ESO – where the proposal team is presented to reviewers in alphabetical order on the final page of the submission, without information about affiliation and country.



# Thank you

**CSIRO Astronomy and Space Science**

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