



**Sarah Pearce**  
**CASS Deputy Chief**

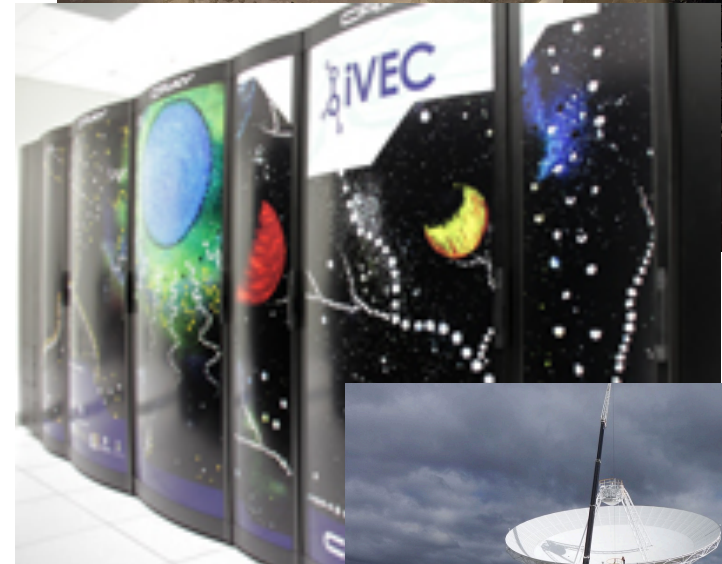
ATUC June 2014

CSIRO ASTRONOMY AND SPACE SCIENCE  
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# Highlights

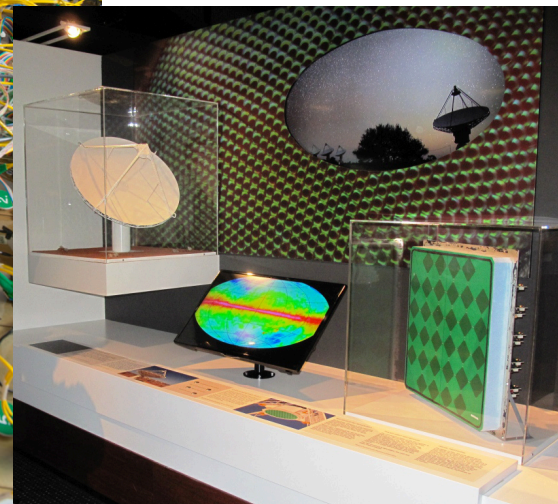
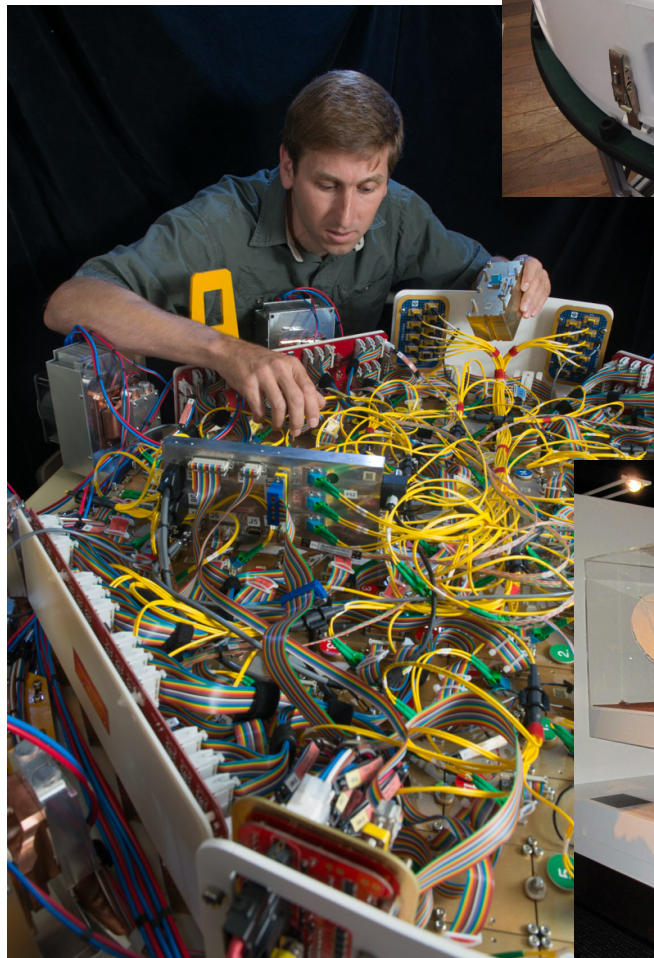
- 'Rocks around the clock' – Feb 2014
- 'Galaxy' RTC live at Pawsey Centre
- Six months into work for SKA consortia
  - Dish consortium tests at Parkes
  - CoDR this week in Sydney
- 2014 Grote Reber Medal for Ron Ekers
- Two new antennas at CDSCC
- Deep Space Network 50<sup>th</sup> anniversary
- Participating in Decadal Plan – CASS staff in most of the working groups





# ASKAP

- Prototype MkII Phased Array Feed undergoing final testing at Marsfield
- Then ships to MRO for testing
- Procurement for first eight production PAFs underway
- ASKAP Commissioning and Early Science team
  - First secondments from partner universities
- PAFs at the Powerhouse museum



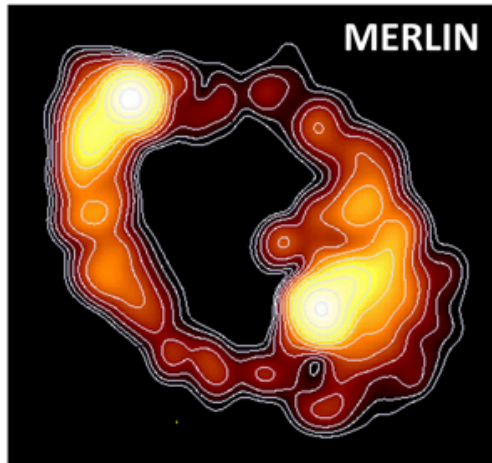
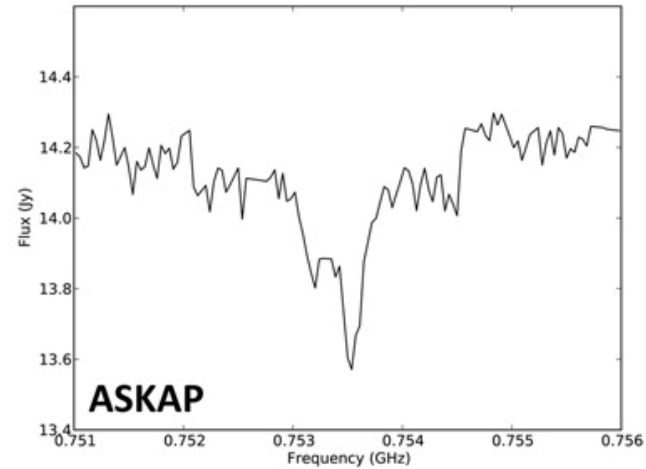
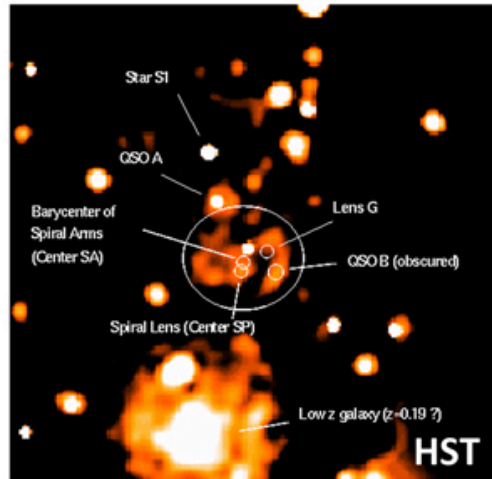


# Many visitors

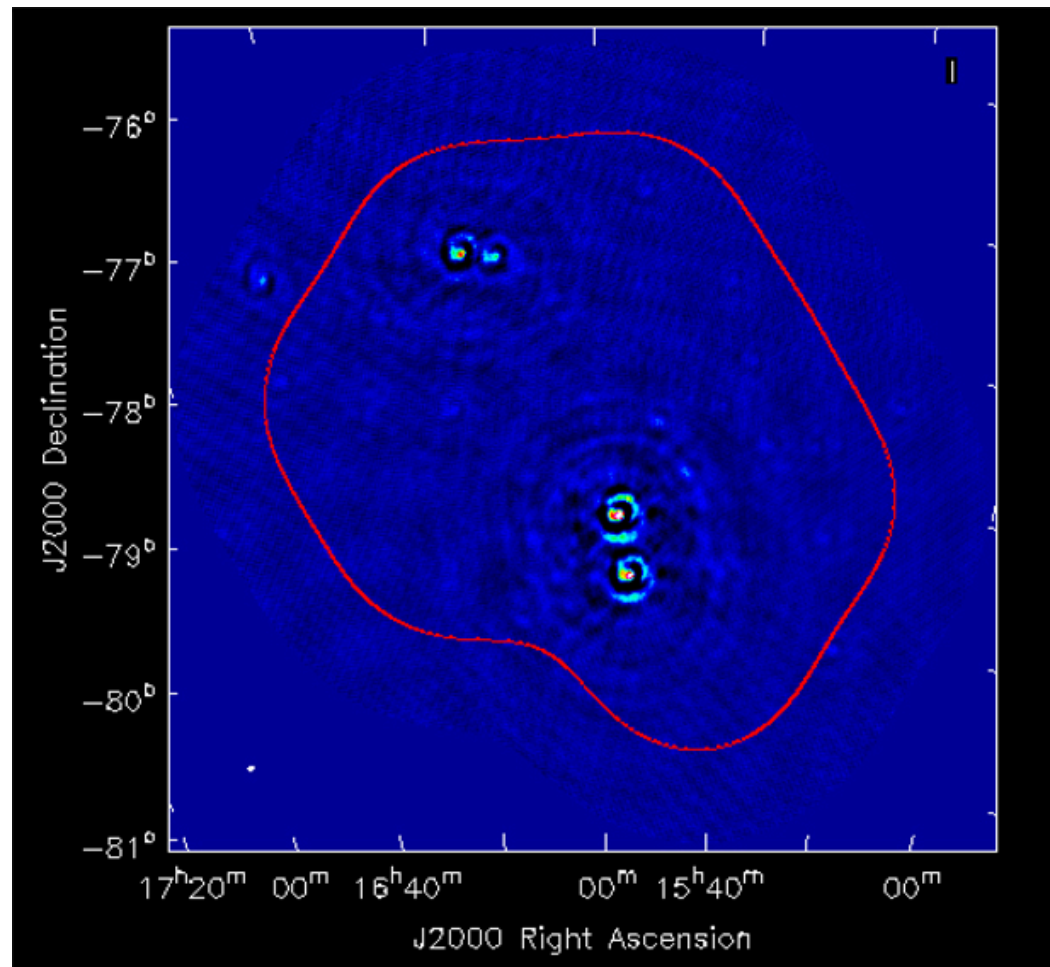




# BETA commissioning - first HI absorption line

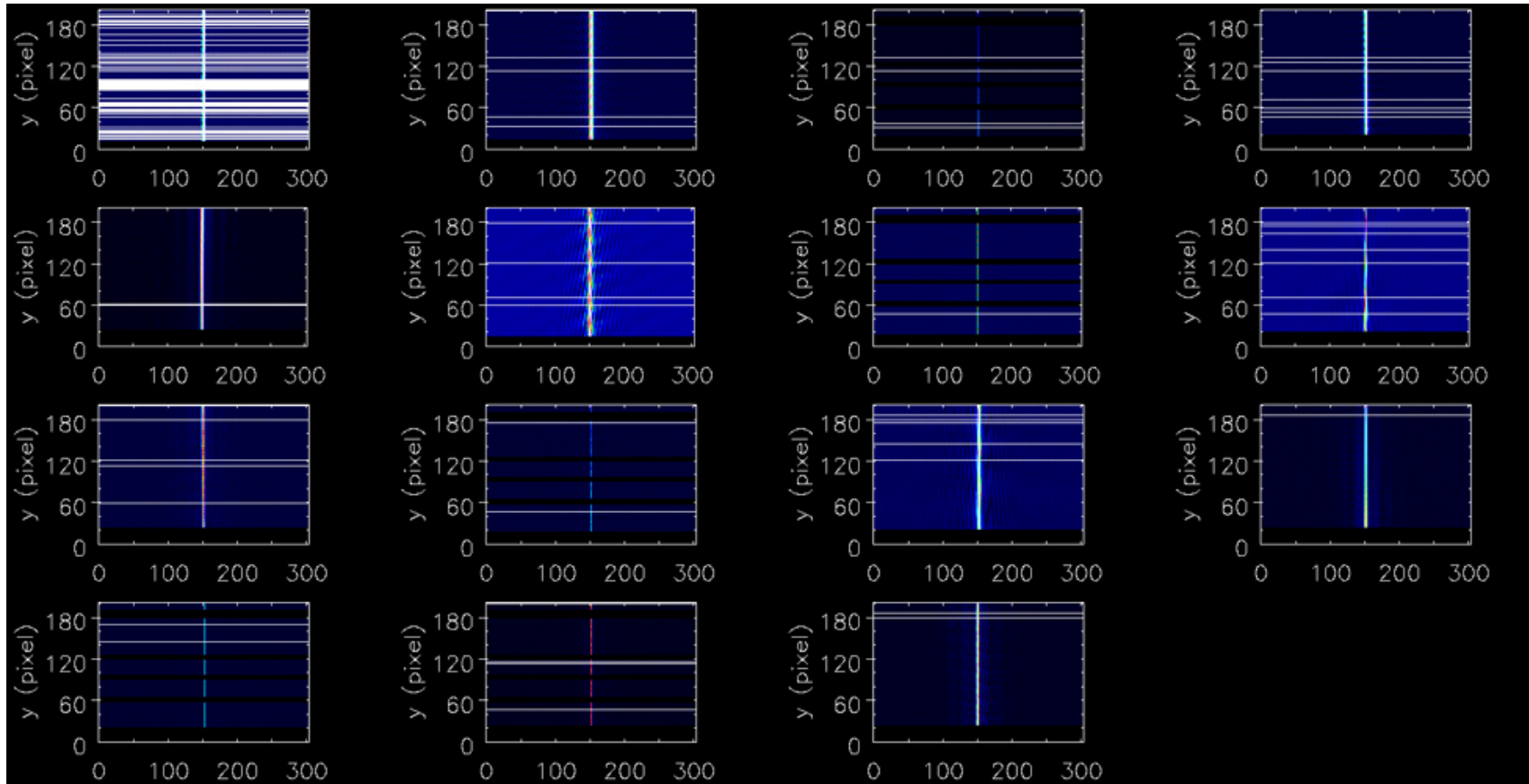


# BETA commissioning - first continuum image

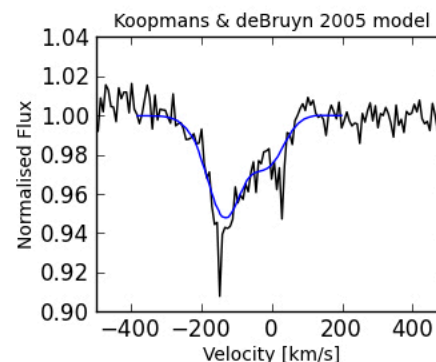
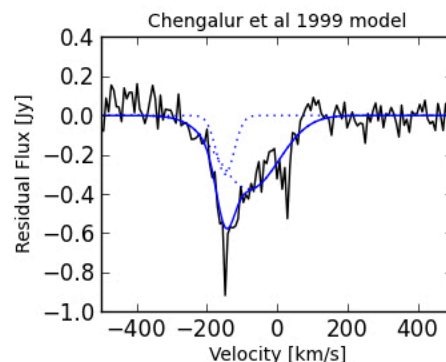
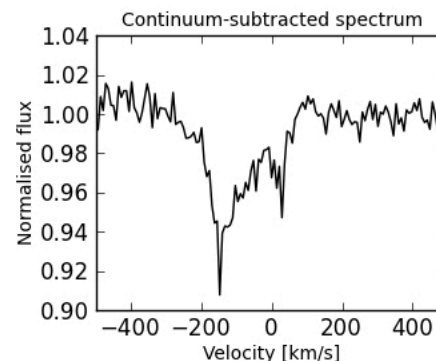
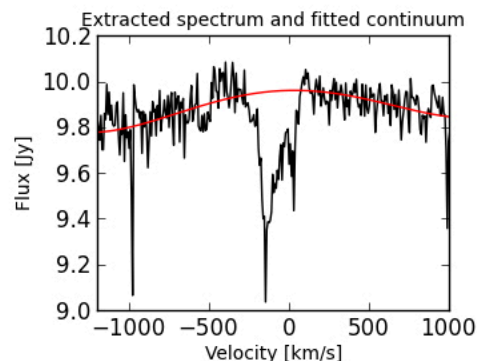
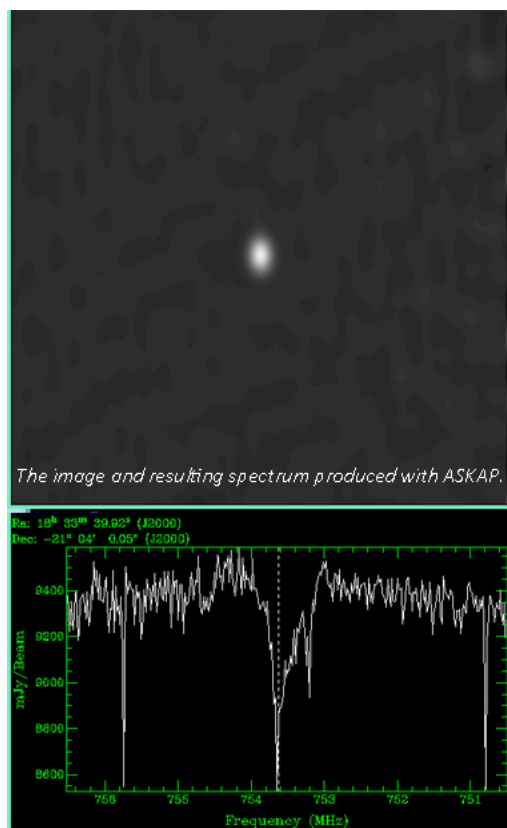




# BETA commissioning - first 15-baseline observation



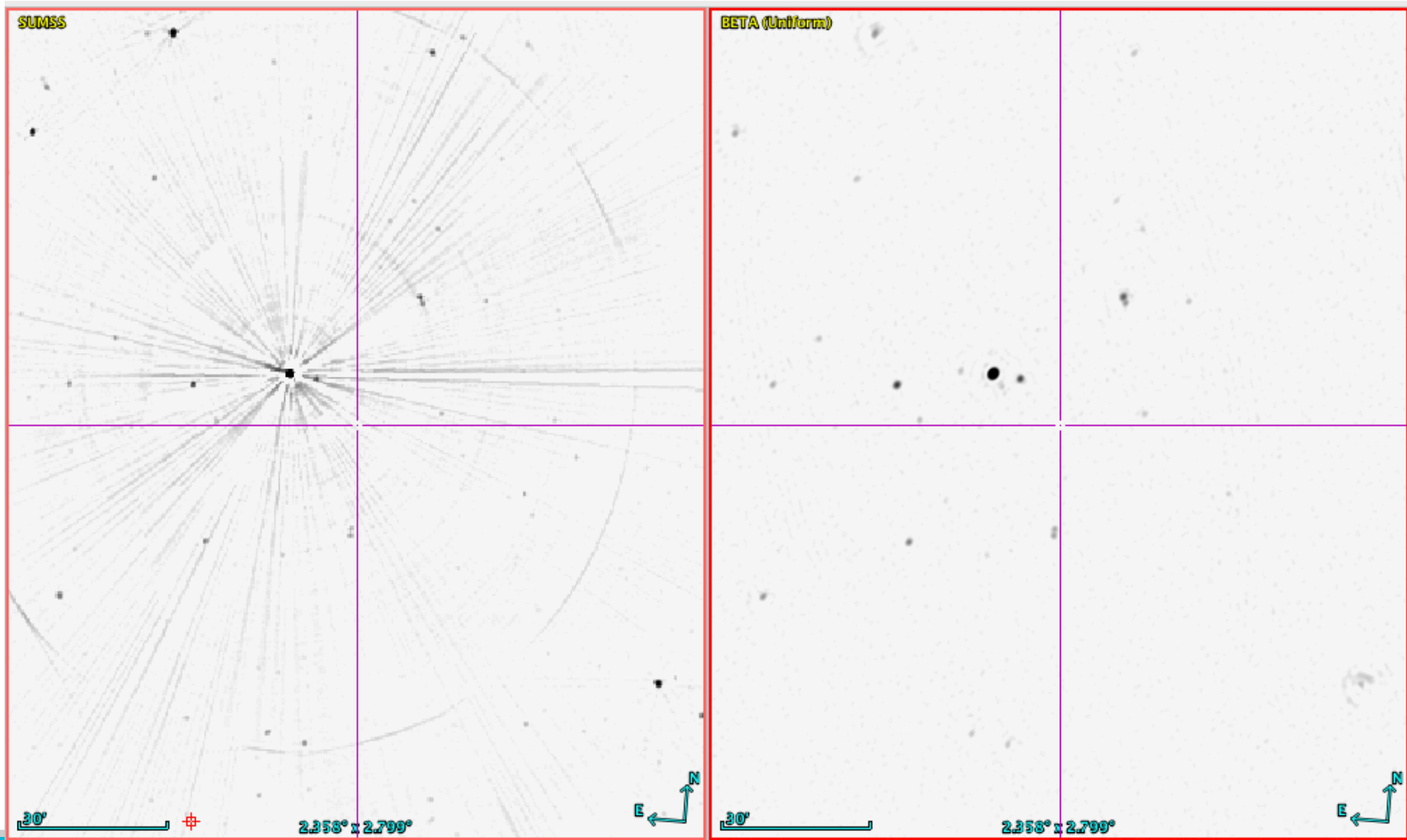
# BETA commissioning - first spectral line data cube



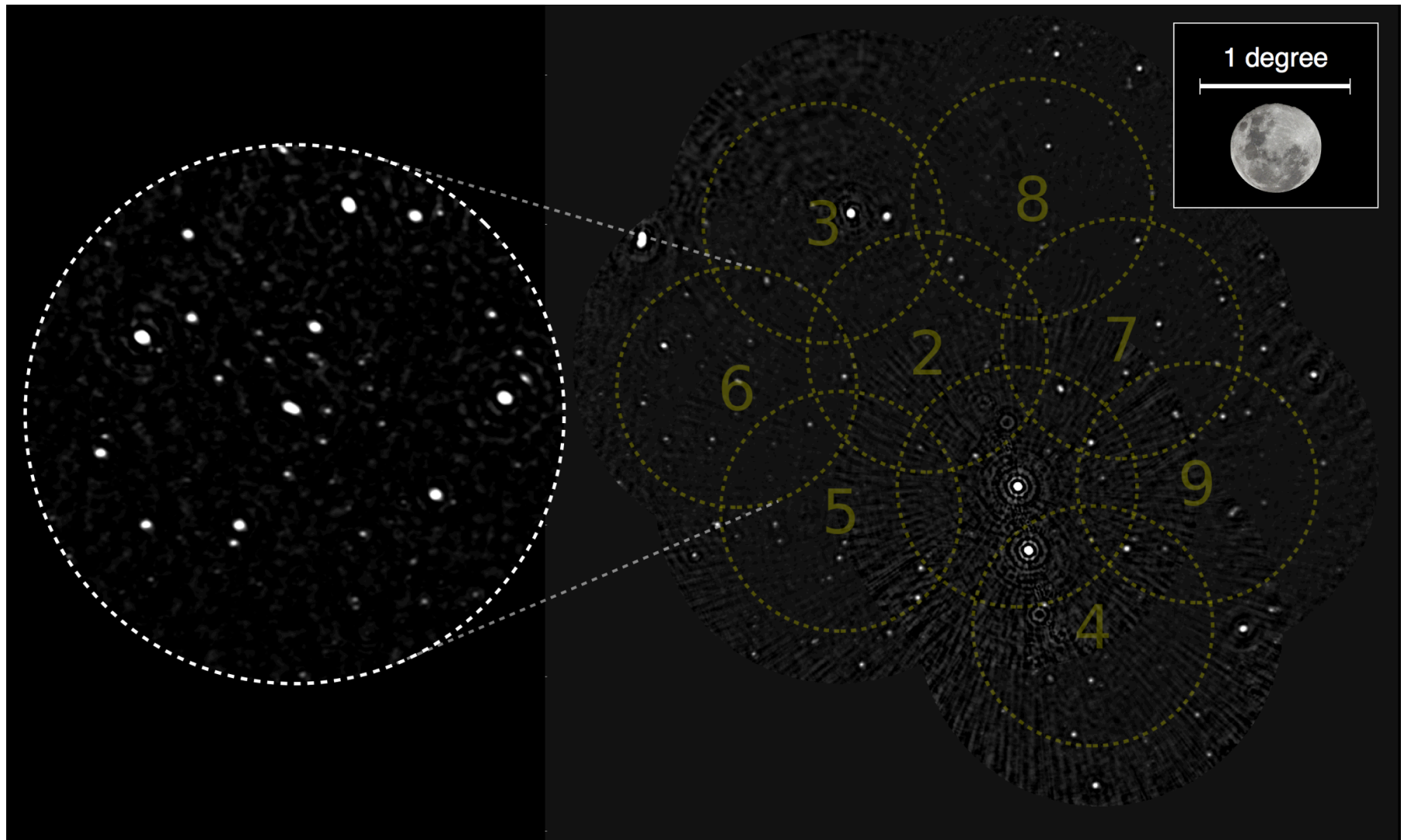
ASKAP Boolardy Engineering Test Array spectrum of PKS 1830-211, compared with observations from other telescopes. Credit: CSIRO.



# BETA commissioning – comparison data

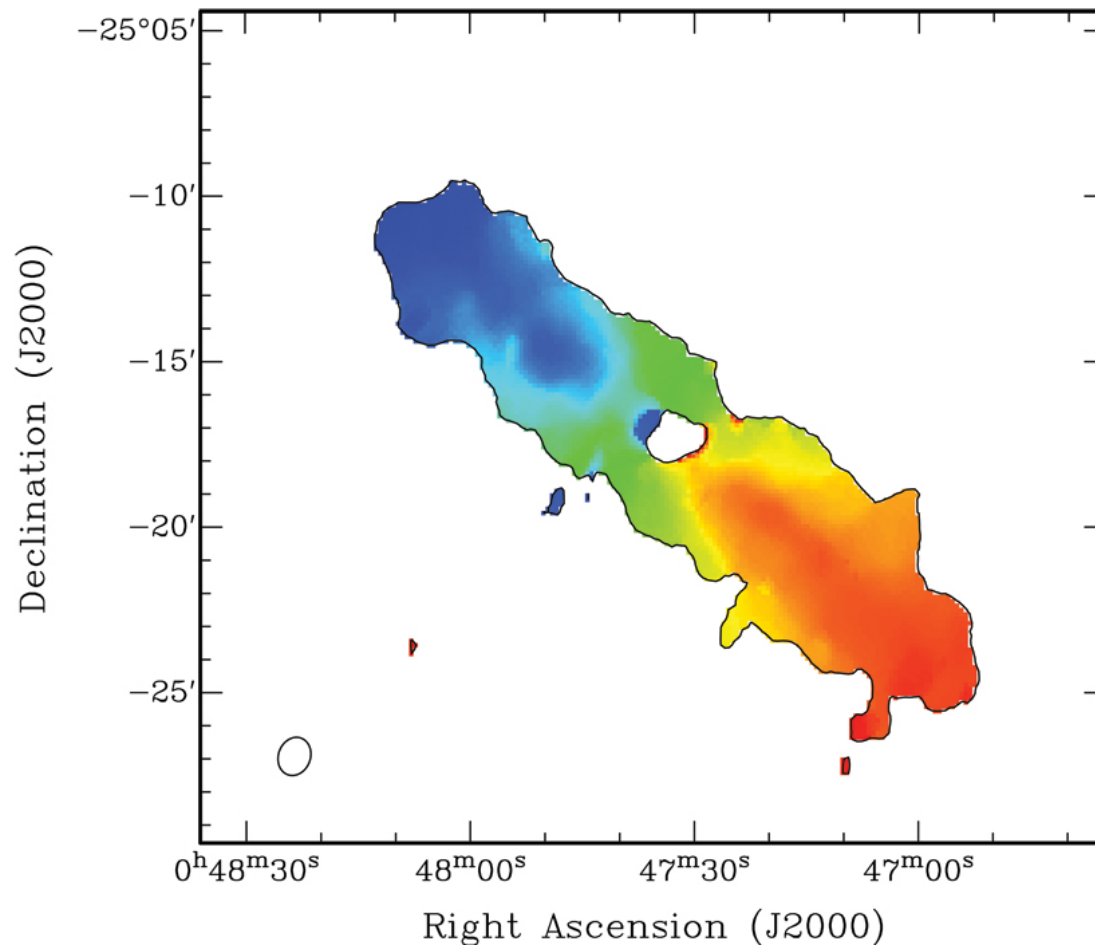


# BETA commissioning – latest





# BETA commissioning – 9 beam image



# CSIRO restructure

- CSIRO is moving away from Divisions to Flagships
- CASS will move to a new 'Line of Business' for National Facilities
  - Includes Australian Animal Health Lab, CSIRO research vessel and national collections
  - National Facilities line of business managed by Dave Williams
- CASS will continue to manage two facilities
  - ATNF
  - Canberra Deep Space Communication Complex
- Management will stay the same as now



# CSIRO budget

- CSIRO has ~5% cut to budget, 10% expectation of reduction to external revenue, growing costs
  - Astronomy not immune from these pressures
- Committed to delivering ASKAP and SKA pre-construction
- High level direction is reductions in:
  - Science activities
  - Engineering R&D where not directly SKA/ASKAP related
  - Expenditure on operations of existing observatories
- Specifics being developed quickly in response to the federal budget
  - CASS has first draft of 14/15 divisional budget

We acknowledge the Wajarri Yamatji people as  
the traditional owners of the Observatory site.

# Thank you

**Astronomy & Space Science**

Dr Sarah Pearce

**t** +61 2 9372 4300

**E** Sarah.Pearce@csiro.au

**w** [www.csiro.au/cass](http://www.csiro.au/cass)

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