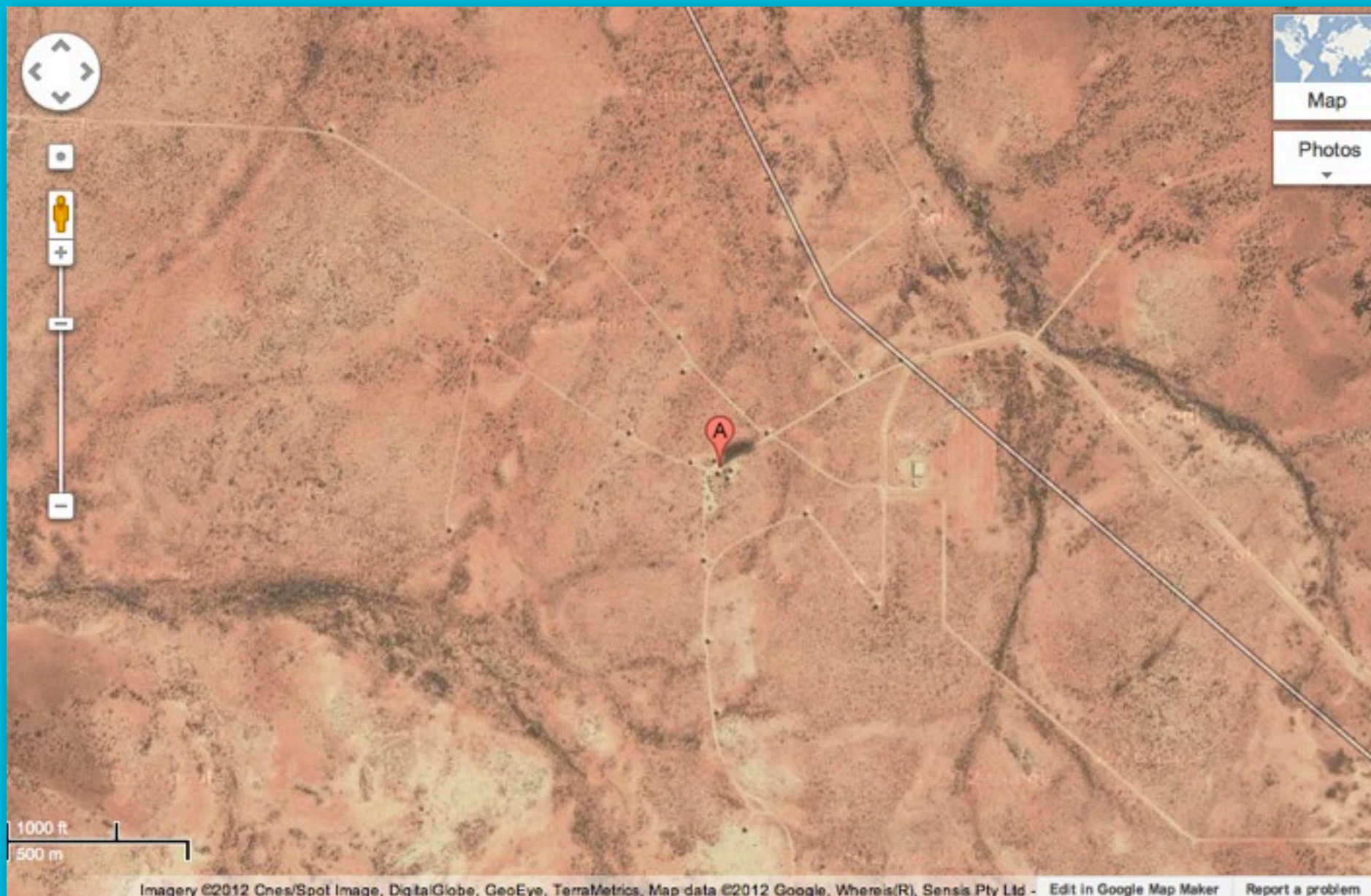




Astrophysics Report

NAOMI MCCLURE-GRIFFITHS

DEPUTY ASTROPHYSICS LEADER

30 OCT 2012

www.csiro.au



People changes since July 2012

New Bolton Fellow:

- Eli Bressert



OCE Science Leader:

- Bärbel Koribalski



OCE Postdoc:

- Amy Kimball (starts June 2013)

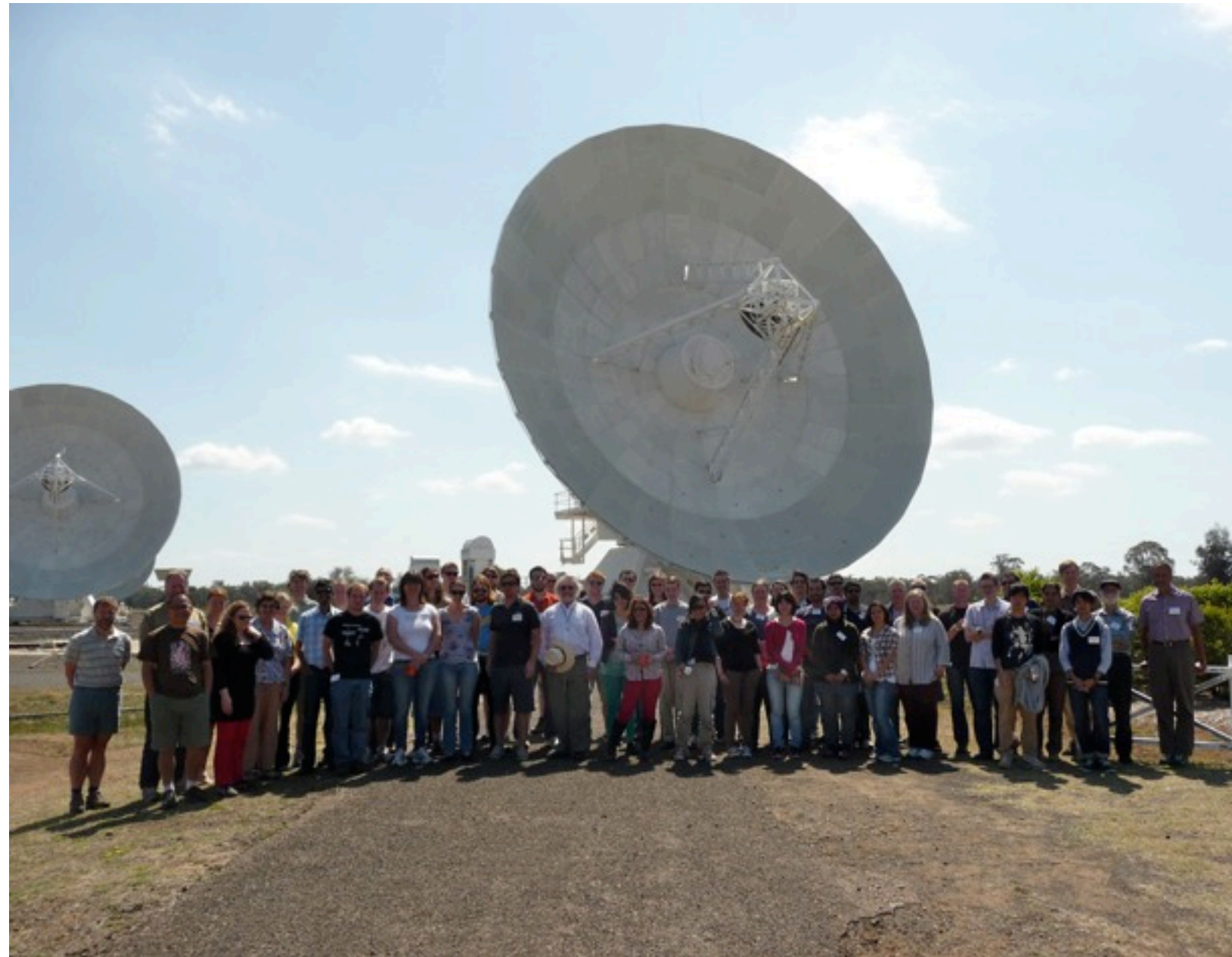
6 Positions currently advertised (closing 18 Nov)

- Indefinite position
- Bolton Fellowship
- 2 extragalactic HI postdocs
- 2 pulsar postdocs

Recent Events

CASS Radio School in Narrabri Sep 24 - 28

- Speakers:
 - Douglas Bock (CASS)
 - Shari Breen (CASS)
 - Aaron Chippendale (CASS)
 - Tim Cornwell (CASS)
 - Phil Edwards (CASS)
 - Ron Ekers (CASS)
 - Jimi Green (CASS)
 - Andrew Hopkins (AAO)
 - Suzy Jackson (CASS)
 - Emil Lenc (USyd)
 - Malte Marquarding (CASS)
 - Urvashi Rau (NRAO)
 - Bob Sault (NRAO/CASS)
 - Lister Staveley-Smith (ICRAR/UWA)
 - Ravi Subrahmanyan (RRI)
 - Steven Tingay (ICRAR/Curtin)
 - John Tuthill (CASS)
 - Mark Wieringa (CASS)



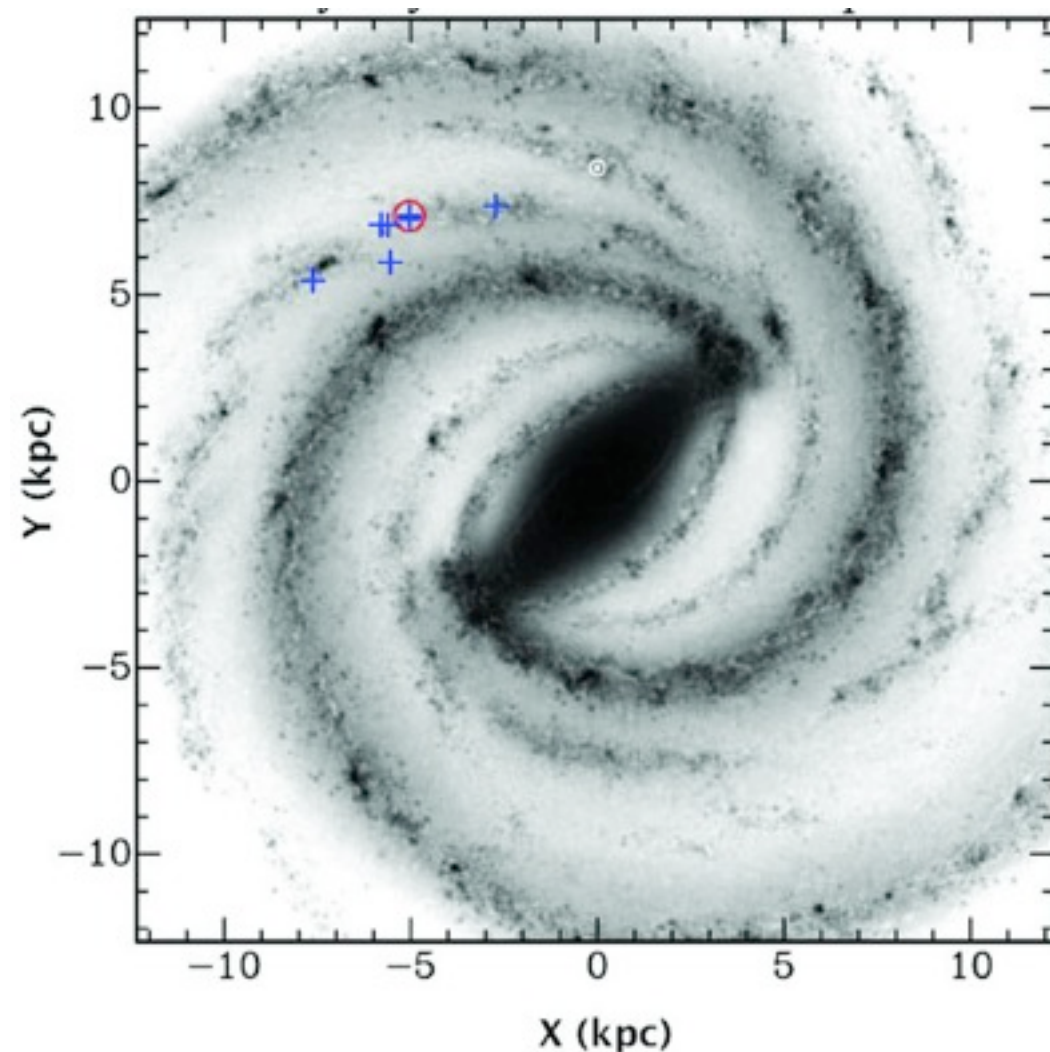
Question: Run Radio School alternate years?

Science Highlights

MAGMO: coherent magnetic fields in the star-forming regions of the Carina-Sagittarius spiral arm tangent

J. A. Green,^{1*} N. M. McClure-Griffiths,¹ J. L. Caswell,¹ T. Robishaw²
and L. Harvey-Smith¹

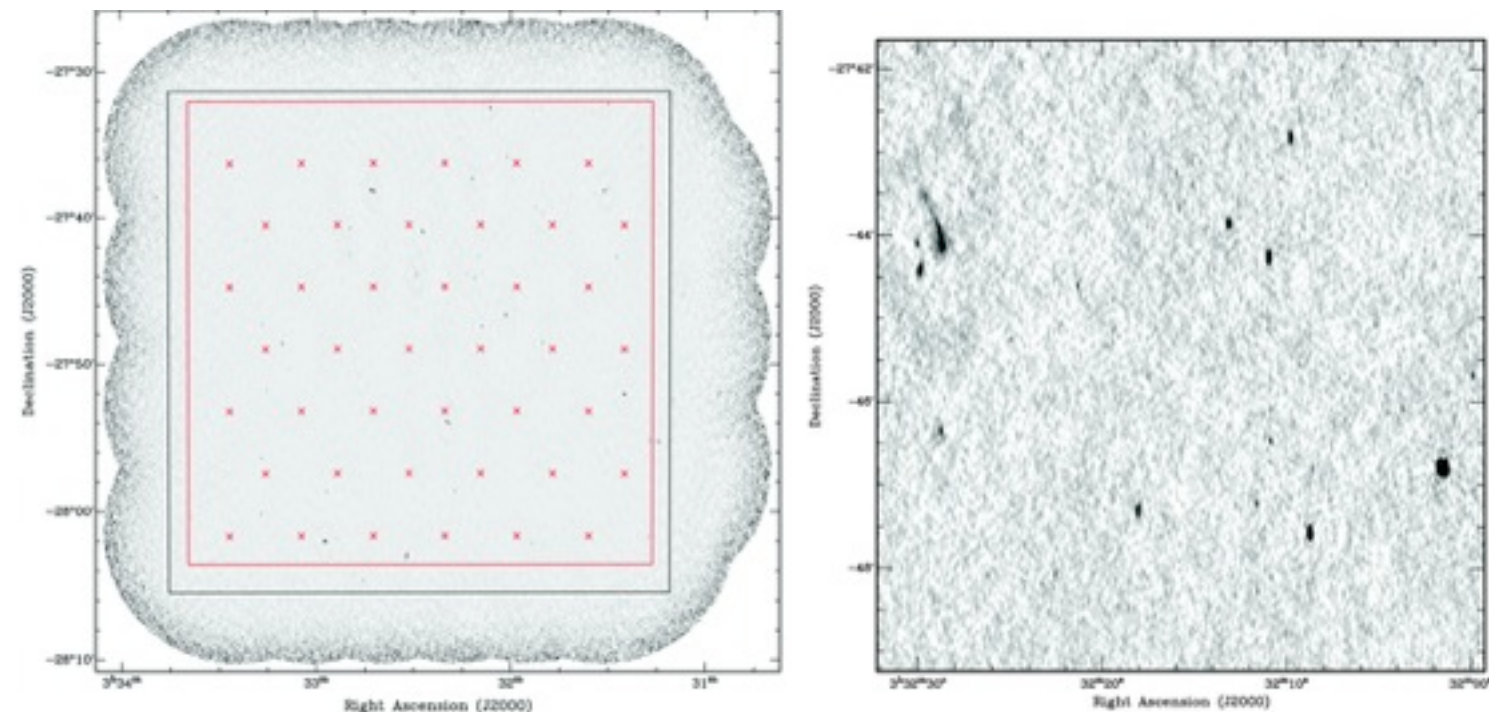
MNRAS, 425, 2530



The ATLAS 5.5 GHz survey of the extended *Chandra* Deep Field South: catalogue, source counts and spectral indices

M. T. Huynh,^{1*} A. M. Hopkins,² E. Lenc,^{3,4} M. Y. Mao,^{3,5} E. Middelberg,⁶
R. P. Norris³ and K. E. Randall^{3,4}

MNRAS, 426, 2342



Science Highlights

The H₂O Southern Galactic Plane Survey: NH₃ (1,1) and (2,2) catalogues

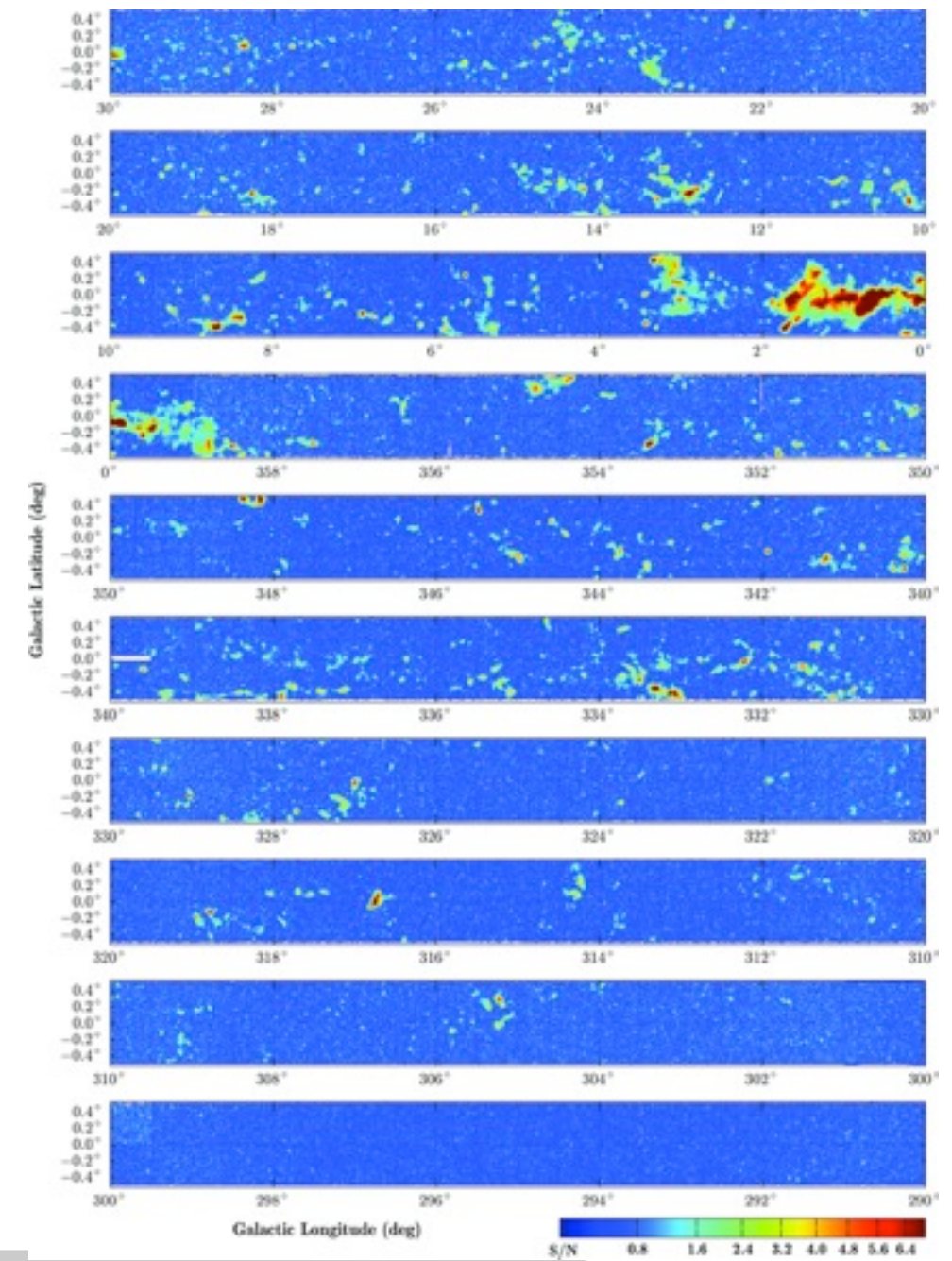
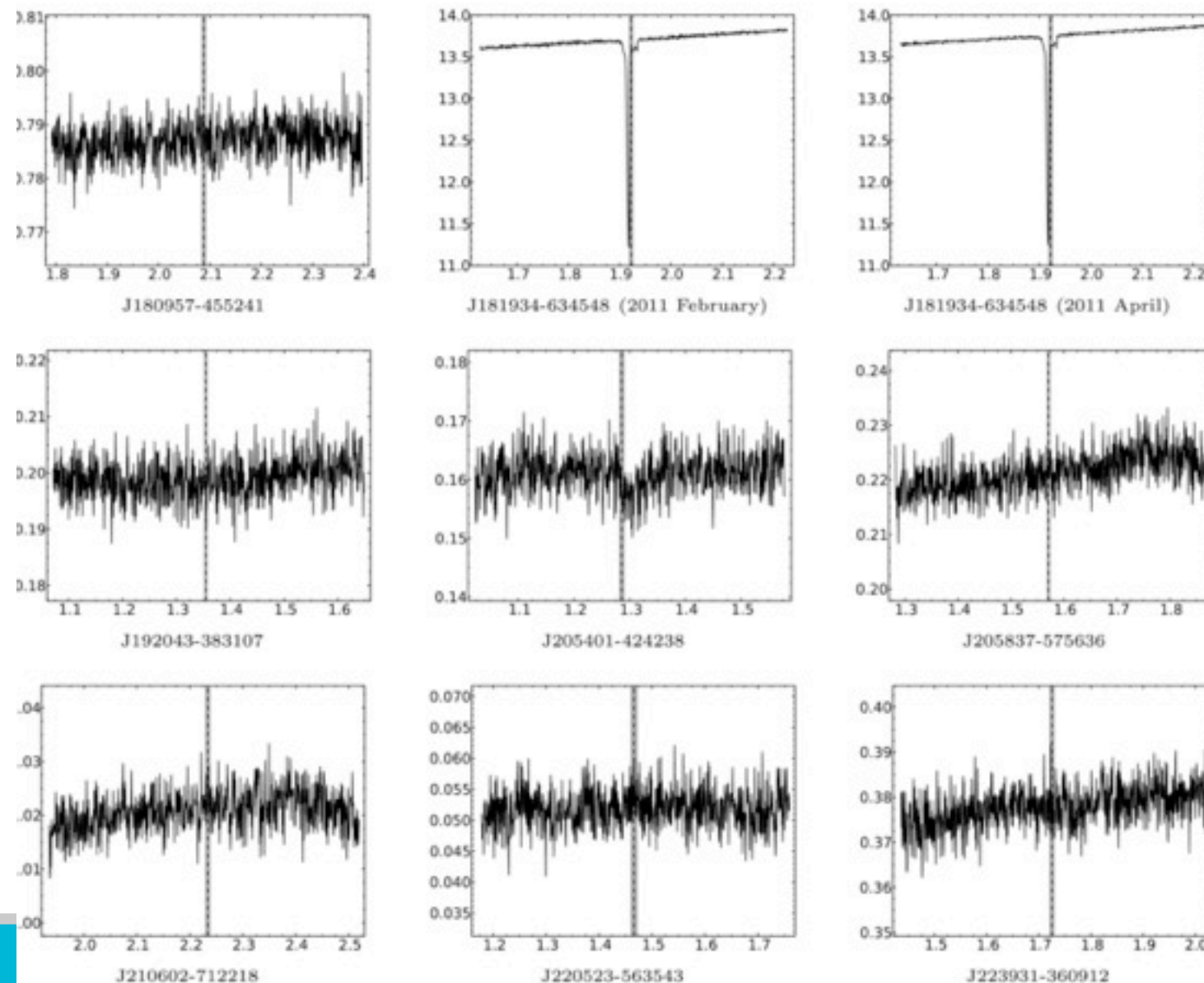
C. R. Purcell,^{1,2,3*} S. N. Longmore,^{4,5} A. J. Walsh,⁶ M. T. Whiting,⁷ S. L. Breen,⁷ T. Britton,^{7,8} K. J. Brooks,⁷ M. G. Burton,⁹ M. R. Cunningham,⁹ J. A. Green,⁷ L. Harvey-Smith,⁷ L. Hindson,^{7,10} M. G. Hoare,² B. Indermuehle,⁷ P. A. Jones,^{9,11} N. Lo,^{11,12} V. Lowe,^{7,9} C. J. Phillips,⁷ M. A. Thompson,¹⁰ J. S. Urquhart,^{7,13} M. A. Voronkov⁷ and G. L. White⁶

MNRAS, 426, 1972

A search for 21 cm H I absorption in AT20G compact radio galaxies

J. R. Allison,^{1*} S. J. Curran,^{1,2} B. H. C. Emonts,³ K. Geréb,^{4,5} E. K. Mahony,^{1,2†} S. Reeves,^{1,2} E. M. Sadler,^{1,2} A. Tanna,⁶ M. T. Whiting³ and M. A. Zwaan⁷

MNRAS, 423, 2601

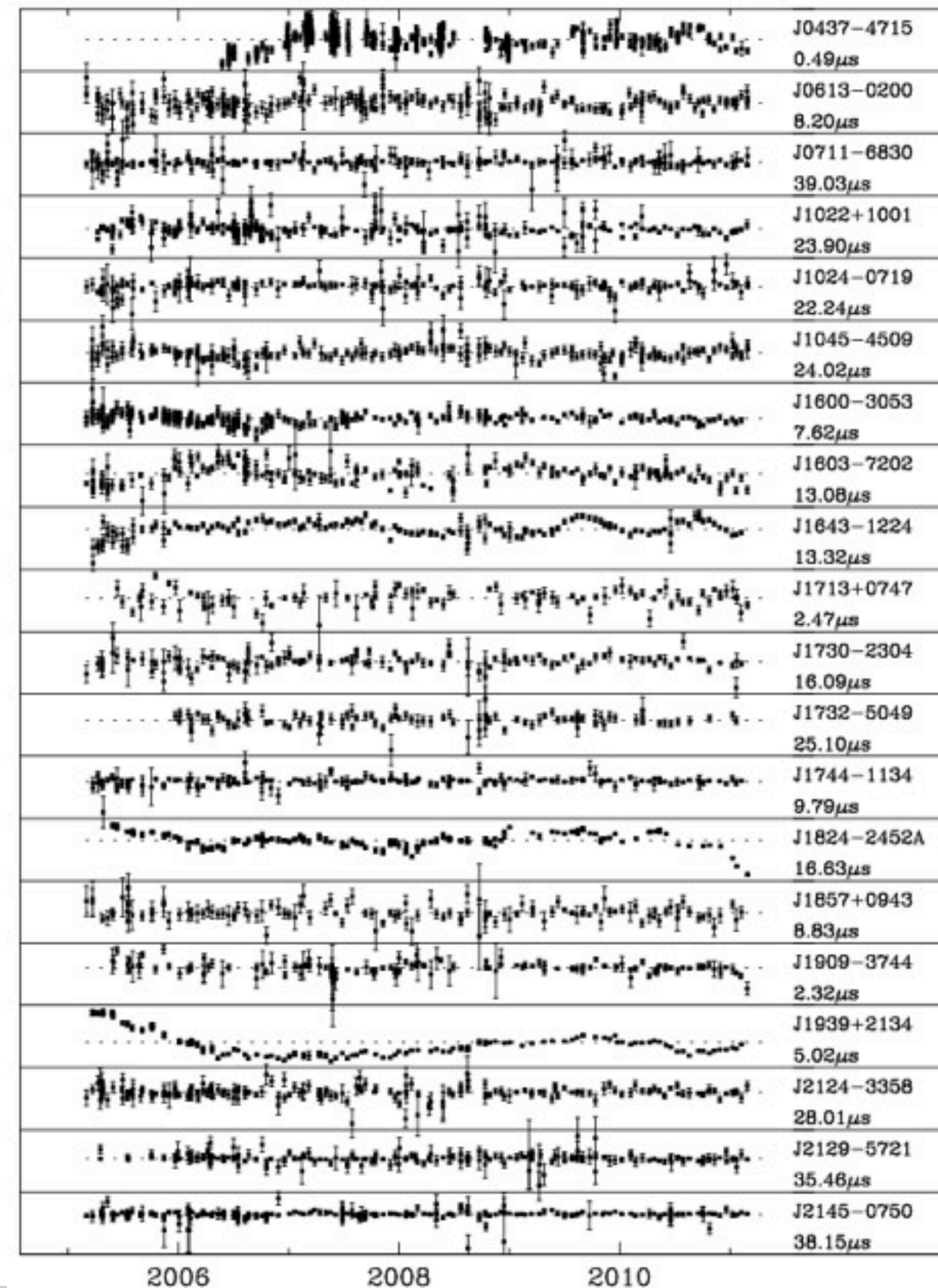


Science Highlights

The Parkes Pulsar Timing Array Project

R. N. Manchester^{A,P}, G. Hobbs^A, M. Bailes^B, W. A. Coles^C, W. van Straten^B, M. J. Keith^A, R. M. Shannon^A, N. D. R. Bhat^{B,D}, A. Brown^A, S. G. Burke-Spolaor^{E,A}, D. J. Champion^{F,A}, A. Chaudhary^A, R. T. Edwards^G, G. Hampson^A, A. W. Hotan^{A,B}, A. Jameson^B, F. A. Jenet^H, M. J. Kesteven^A, J. Khoo^A, J. Kocz^{B,I}, K. Maciesiak^{J,A}, S. Osłowski^{B,A}, V. Ravi^{K,A}, J. R. Reynolds^A, J. M. Sarkissian^A, J. P. W. Verbiest^{F,B}, Z. L. Wen^L, W. E. Wilson^A, D. Yardley^{M,A}, W. M. Yan^N, X. P. You^O

PASA (in press)



Dates for the Diary

6 positions close : 18 Nov 2012

Bolton Symposium : 4 - 6 Dec 2012

Neapolitan of Maser Science Workshop : End May 2013

Southern Cross Meeting “Feeding, Feedback & Fireworks:
Celebrating our Cosmic Landscape” : 24 - 28 June 2013

Narrabri 25th Anniversary Science Meeting : 2 Sept 2013

Some current issues under consideration in Astro

How to provide additional support for Parkes in reduced SO mode?

- Astro members embedded in most Parkes teams already?

How to encourage use of the SOC?

- SOC on-duty astronomer roster?

Astro role in BETA commissioning

Questions to ATUC

Is there a strong need for the Radio School to be run every year?

How could we (Astro) help to make the SOC a place you would want to visit?

- Provide a support astronomer?

Should the community (led by Astro?) actively seek to promote large projects on the ATCA?