ATCA/Mopra report

Phil Edwards
ATUC meeting 1 May 2007



ATCA shutdown

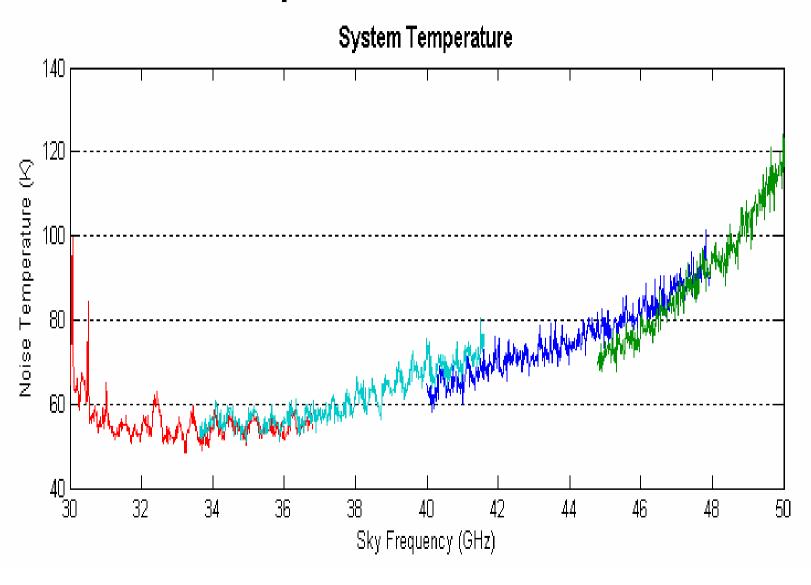
- Four week shutdown 26 March to 20 April
- Replacement of 3 antenna UPSs
- Refurbishment of azimuth drives and brakes
- Installation of last 2 shielded racks
- Installation of prototype CABB racks
- Test of rapid skull and xbones changeover
- Air conditioner and cryo work
- Installation of 7mm/ka-band/Q-band receivers
- Preparations for 7mm translators



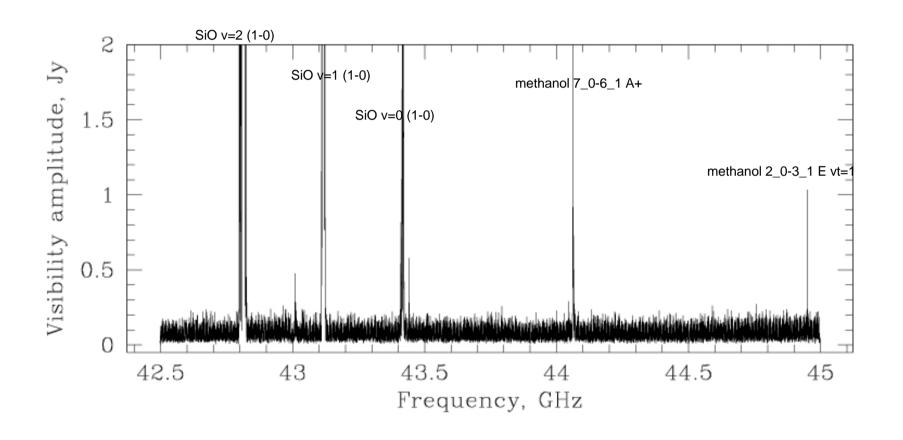
7mm upgrade

- Co-funded by ATNF and NASA/DSN
- Ka-band (32 GHz) tracking for ~10 hours per week, with allowance for emergency support
- First test NASA track on May 11th
- Work on translators for 7mm receivers continuing
- Monitoring of calibrators as part of C007
- 7mm option to be added to OPAL
- Sensitivity calculator to be updated
- For more information http://www.atnf.csiro.au/observers/docs/7mm

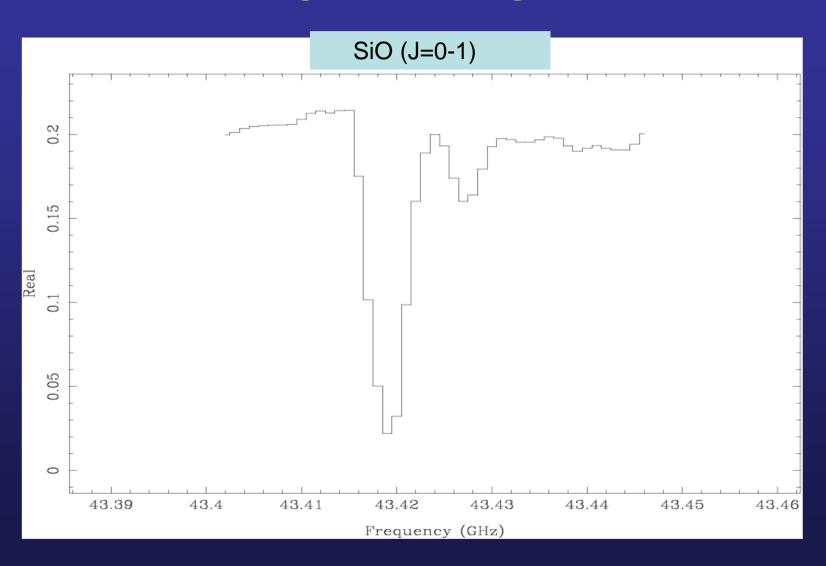
7mm Receiver System Performance - CA03 Rx07 A Pol



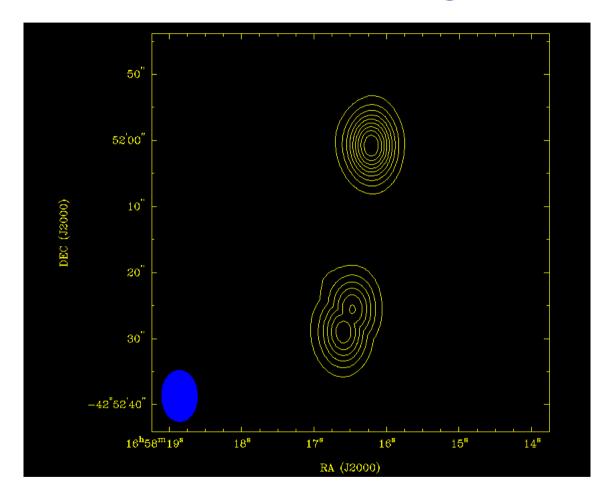
Orion's Spectral Lions



SiO against Sgr B2



First 7mm image!

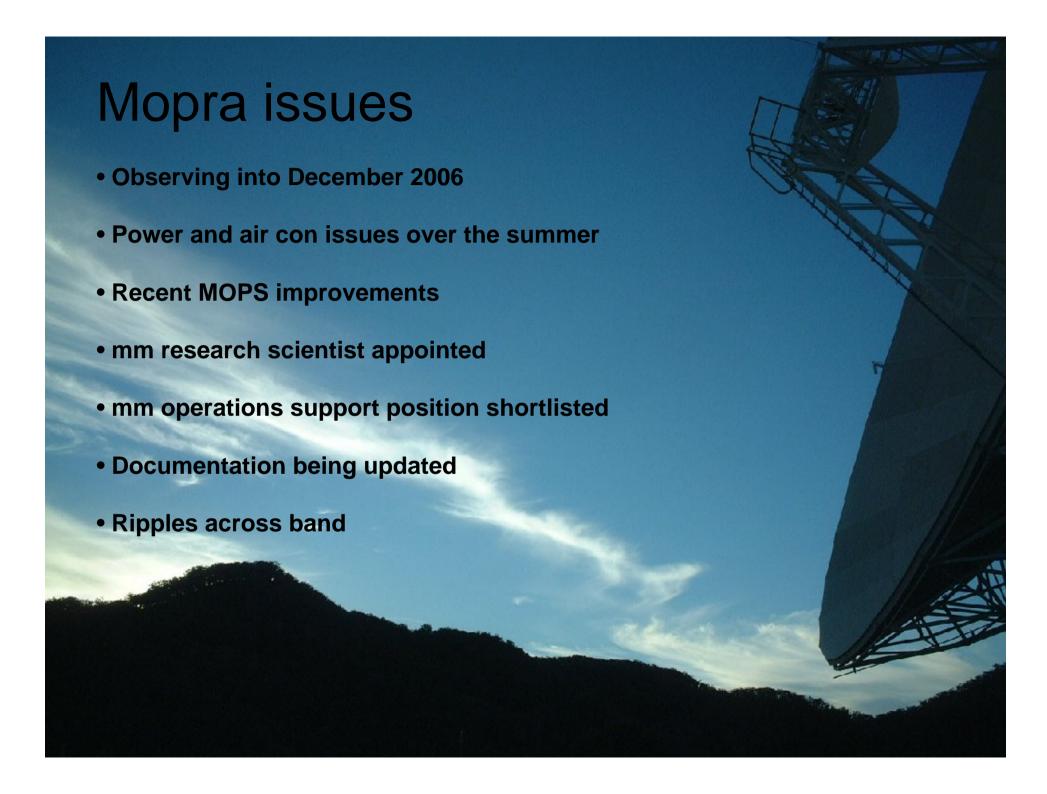


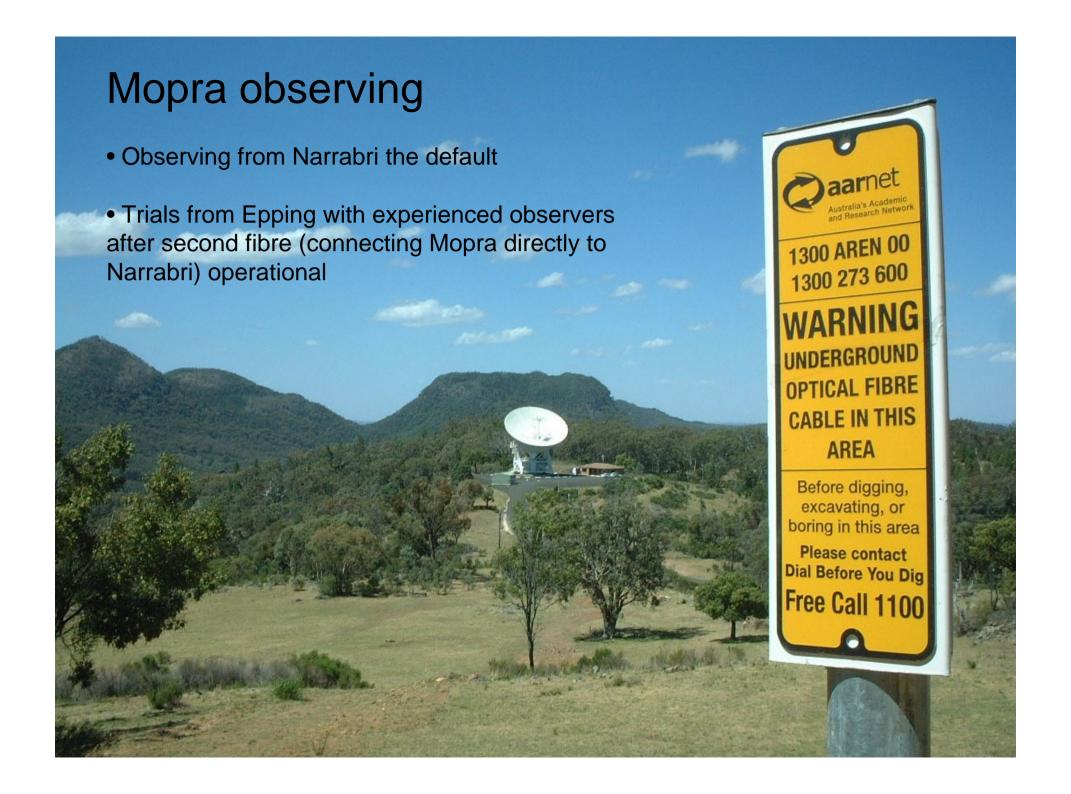
36GHz methanol masers in G343.12-0.06 (IRAS 16547-4247)

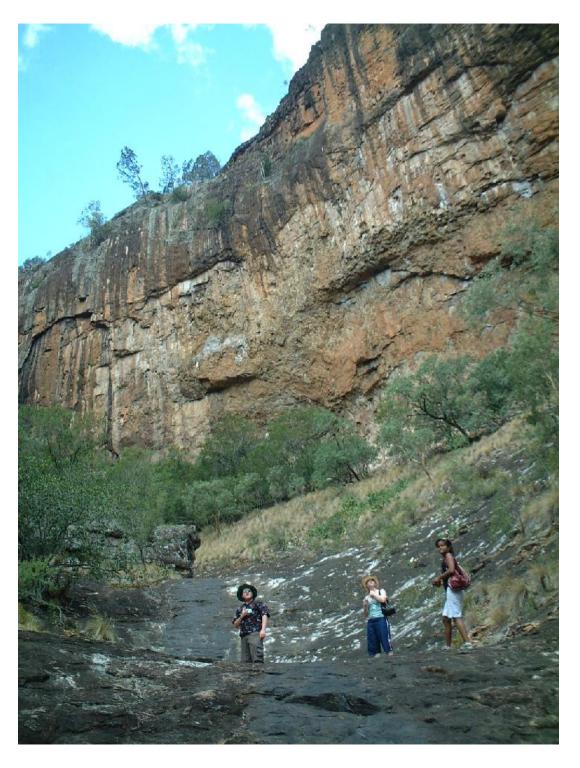
Courtesy Voronkov

ATCA remote observing

- Relaxed requirements during Oct06 term
- Remote observers, DAs, local staff, Shaun Amy, polled on the success of the trial
- General support for continuation of the relaxed requirements, but awareness of benefits of being on site, especially for students
- "Currency" requirement to remain
- Competency requirement for 3mm observing?
- Announcement to be made in near future
- (Further reading: Lockman, astro-ph/0507140)







Vacation students

James McGeachin Neural Networks

Kate Randall
Intra Day Variables

Dilini De Silva

Antenna drive systems

