

# VLBI teleconference, Thursday 27 March 2014

**02:30 UT - 10:30 Perth, 13:30 AEST, 15:30 New Zealand**

|               |                 |
|---------------|-----------------|
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| SA:           | 08 8305 0688    |
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Meeting ID: 4698

Chair: Tasso Tzioumis

Attendance: Attendance: Cormac Reynolds, Hayley Bignall (Curtin); Tasso Tzioumis, Chris Phillips, Phil Edwards, Jamie Stevens (CASS); Shinji Horiuchi (ATDSCC); Jamie McCallum, Simon Ellingsen (UTas); Oleg Titov(GA)

Apologies:

## Agenda

- Debrief Feb - Mar 2014 LBA sessions
- Telescope issues
  - UTAS
  - ATNF
  - Tid
  - South Africa
- SOC remote observing
  - ATNF
  - UTas
- Monitoring
- Disks
- Correlator
- Real-time fringe tests
- Tests
  - 32 GHz observing?
  - Xcube testing
  - Other testing
- Next LBA session(s)
- Short LBA sessions

- 3 April
- 30 April
- June 2014 - long sessions
  - 2-5 June
  - 11-14 June
- Upcoming RadioAstron observations
- e-VLBI developments/demos
- Future plans: LBA wide-banding?
  - Xcube tests
  - telescope issues
  - correlator issues
  - e-VLBI
- Organise scientific meeting in Northern Territory in 2014/2015 ?
- Review of [Actions from meeting on 03 December 2013](#)
- AOB

## Actions arising

### CARRIED FORWARD/UPDATED/CONTINUING

- LBA data archive consolidation and copy at CASS. (CASS, Curtin)
  - LBA data archive. Need ATNF disk space (Chris,Tasso, Shaun) **Continuing**
- ATCA phasing. Check performance and implementation (Jamie S, Richard) **Updated**
  - Definitely need >200 mJy calibrators. Stress in documentation. (ATNF)
  - Ask PIs to nominate phase-cals and check fluxes BEFORE scheduled observations (Phil, Jasmie S)
  - Extract phase-cals from Vex files and check at ATCA before run (Chris, Jamie S.)
  - Need at least 6 cycles for auto-phase = 30secs if 5sec integration.
    - Phase-impact on phase-ref and calibration? Phase jumps?
    - consult with Ojha re auto-phasecal for TANAMI (ATNF)
- ATCA Tsys via CABB (CASS) **Updated**
  - Consult with Carrad and Sault about Tsys implementation on the CABB (Tasso)
- Observer training and remote observing (Tasso) **Continuing**
- Wiki logs (All) **Continuing**
  - Log transfers quickly to FTP area and/or Wiki (ALL) **Continuing**
  - Annual "best" wiki-log competition. To be judged by correlator at annual Ops meetings. (Cormac)
- Pawsey centre access for VLBI and eVLBI (Chris, Cormac) **Continuing**
- Linear to Circular polarisation conversion. (Chris, Richard, Cormac) **Continuing**
- Monitoring "check-list" for ATNF telescopes (Chris, Jamie S) **Continuing**
- For ATCA include in Wiki log: ref ant, pad, tied-array. Default ant03 on W104. (Jamie S, ALL observers)

- Curtin Xcube testing. Unit installed at ASKAP. Commission. (Chris, Cormac, Tasso) **Continuing**
- On-source info from ATCA. Fix cgi scripts (Chris) **Continuing**
- DA role during LBA sessions (Phil, Tasso, Jamie S)
- Procedures for raising Ho observers on Skype. Telephone? (UTas)
  - Implement lists on Skype and/or Wiki for observers(ATNF)
- Get Ww FS log comments onto Wiki. Use UTas "floggit" script and automate? (Stuart, Chris, Jamie M.)
- Fix recmon to track correct experiment name, especially due complex recordings for Ellingsen (Chris, Jamie S)
- List Mk5 rtc times for each observation from schedules (Cormac, Chris)
- RadioAstron schedules and check setups (Chris)
- Use new numbers for ATCA (4077 for DA; 4078 for Observer)
- For wideband systems more efficient to stop data recording in slews/stops AND better efficiency in correlator.
  - Adopt Mk5 systems?
- Cd upgrades
  - DAS replacement by dBBc (UTas).
  - L-band sensitivity measurements. (UTas)
- Tid tests for JPL DAS and Mk5c recorder
  - Let JPL know re VDIF format (Chris)
  - Web monitoring? Ports?
- ASKAP VLBI monitoring (Chris, Jamie S)
- Xcube testing (Chris)
- CABB wide-band progress?
  - Email Tim Bateman and get report (Tasso)

#### NEW ACTION ITEMS

- Cd drive-PC. Fix in short-term. Replace long-term? (UTas)
- Ho, Cd need setup information early. Problems when schedules are late. (Phil, UTas)
- Ensure correct wraps and limits are supported in Vex, especially for At and Mp. (ATNF, Cormac)
- Setup of circ pol hybrids at Mp. Need to tweak (ATNF)
- Tsys logs from Mp may be wrong if polarisation hybrid not setup properly. Need to average the 2 channels (ATNF)
- Mp L-band and X-band low power and no atten to adjust. Check with Jock (ATNF)
- Pks update of documentation. Polarisation are usually swapped. (ATNF, JER)
- Pkvs1 and pam-store disks dead! Check re backups (ATNF)
- Antenna positions at ASKAP. May need geodetic run for new antenna. (ATNF, JER)

- Train/qualify more PIs for ATNF remote observing (ATNF)
- Investigate more remobs for UTas telescopes (UTas, ATNF)
- Streamline monitoring. Check ssh tunnel setups. (Jamie + Jamie, Chris)
- Disks to Cd )Hayley)
- grid-ftp on Cortex. Move to new systems (Cormac)
- Supercomputer for DiFX. Approved. Initiate port. (Cormac)
- Coordinate data transfers so full experiments are ready for correlation (All, Hayley)
- Liaise with Ojha re auto-pcal in his observations (ATNF)

#### STANDING ACTION ITEMS

- Plan for replacements of old LBA DAS and some failing recorders.
  - Plans to replace at each station (UTas, CASS)
- VLBI science meeting in 2015 at Darwin/Katherine (NB. Now in 2015!!)
  - Setup LOC, SOC (Tasso, Jim)

Next meeting: TBD

From:

<https://www.atnf.csiro.au/vlbi/dokuwiki/> - **ATNF VLBI Wiki**

Permanent link:

<https://www.atnf.csiro.au/vlbi/dokuwiki/doku.php/lbaops/telecon2014mar27>

Last update: **2015/12/18 16:39**

