

v191b

[Observers wiki](#)

Correlation notes

ATCA reference station is W104 (CA04)

S-band continuum experiment. PI Paula Benaglia, contact author Sean Dougherty.

Correlation: 128 spectral channels per IF, 2 sec integration, included crosshand polarizations.

Most stations started a bit late. Parkes had wrong frequency setup for first hour. Hobart started recording at UT 3:04.

Hobart and Ceduna recorded first two subbands only.

Output file: v191b.rpf

Analysis notes and links to plots

Data verified by: Claire

Date: 6th April 2009

Comments: The target source was below Parkes' elevation limit for a large amount of time during this experiment.

Data from Ceduna seem questionable.

Output files:

[Brief data summary](#)

[Scan listing](#)

[Plots of the autocorrelations](#)

Comments: Hobart bandpasses exhibit apparent severe interference - strangely peaked autocorrelations, particularly in LHC.

ATCA known spikes at band edges (tied array?).

Ceduna bandpasses not always flat.

[Plots of the uncalibrated amplitude and phase against time](#)

Comments: From VPLOT uncalibrated plots we see CA is off-source for a short time at the start of the experiment, Hobart takes longer to come on (Mopra may be slow too). Ceduna data is no good for almost half the experiment. Parkes comes online late but the source (and most calibrators) set very early.

[Plots of the uncalibrated amplitude and phase against frequency](#)

Comments: As expected then, POSSM uncalibrated plots show lots of rubbish to Ceduna and Parkes, Ceduna more or less throughout the entire experiment.

[Fringe-fit delay solutions](#)

Comments: Sorry the first page is in landscape while the rest are portrait. I don't know why.

Note output

FRING: CUPPA0> FRING2: Found 3808 good solutions

CUPPA0> FRING2: Failed on 336 solutions

[Fringe-fit phase solutions](#)

Comments: Ceduna looks a bit rubbish here again.

[Fringe-fit rate solutions](#)

[Amplitude and phase against time with fringe-fit solutions applied](#)

[Amplitude and phase against frequency with fringe-fit solutions applied](#)

Comments: Note the scale on phase here is reduced, so apparent variability is typically small, not as significant as it first appears!

Remember we are interested in phase connection in the LL and RR bands, not cross-pols, so the not-rubbish data here all appears fine.

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