

v255u

Description	Proper motion and Parallax of Methanol Masers: A search for infalling ga
Antennas	Pa-At-Mp-Ho-Cd
Start	323 11:00:00
Stop	324 11:00:00
PI	S.P. Ellingsen

Setup v255u.5cm:

Station Modes	Pa At Mp Ho Cd
Channel 1	IFP#1-L0 6642 - 6658 MHz USB RCP
Channel 2	IFP#1-HI 6658 - 6674 MHz USB RCP
Channel 3	IFP#2-L0 6642 - 6658 MHz USB LCP
Channel 4	IFP#2-HI 6658 - 6674 MHz USB LCP
DAS 1 Skyfreq	6658 MHz
Bandwidth	16 MHz
DAS Mode	vsop.pro (telescope)

Setup v255u.5cm-icrf:

Station Modes	Pa At Mp Ho Cd
Channel 1	IFP#1-L0 6300 - 6316 MHz USB RCP
Channel 2	IFP#1-HI 6316 - 6332 MHz USB RCP
Channel 3	IFP#2-L0 6642 - 6658 MHz USB LCP
Channel 4	IFP#2-HI 6658 - 6674 MHz USB LCP
DAS 1 Skyfreq	6316 & 6658 MHz
Bandwidth	16 MHz
DAS Mode	vsop.pro (telescope)

Mode changes:

323 11:00:00 v255u.5cm-icrf
 323 12:50:00 v255u.5cm
 323 16:00:00 v255u.5cm-icrf
 323 16:54:00 v255u.5cm
 323 20:00:00 v255u.5cm-icrf
 323 20:54:00 v255u.5cm
 323 23:59:59 v255u.5cm-icrf
 324 00:45:00 v255u.5cm
 324 04:00:00 v255u.5cm-icrf
 324 04:45:00 v255u.5cm
 324 10:10:00 v255u.5cm-icrf

Ftp: <ftp://ftp.atnf.csiro.au/pub/people/vlbi/v255/v255u>

Comments:

Pa At Mp Ho Cd: Dual frequency setup required. Will need special DAS setup

The purpose of these observations is to obtain the subsequent epoch for proper motion/parallax for G263.250+0.514, G305.202+0.208, G305.208+0.206 and G305.200+0.019, G339.884-1.259, G339.681-1.208 and G339.682-1.207.

The G263.250 observations should show a modest peak at a sky frequency of 6668.23 MHz. The G305.21 observations should show a modest peak at a sky frequency around 6669.36 MHz and the 339.88-1.26 should show a strong peak at a sky frequency of around 6669.27 MHz during these observations.

During the ICRF runs we have sometimes had to exclude certain antennas from observations of some sources in order to get a good spread of azimuths and elevations. Observing comments for each antenna:

Hobart, Ceduna :

The level into IF#1 will change significantly between the two setups. Set the level into the DAS so that it is within range for both setups. Setup the system temperature measurement so that it works for both IFs for the v255u.5cm setup. Please don't change the attenuation into the DAS when the setup changes as that may change the delay.

Mopra :

Note the use of the dual sideband vsop profile. Only the lower sideband should be selected for transfer.

Note the use of the dual sideband vsop profile. Only the lower sideband should be selected for transfer. The basic method and frequencies for this experiment are the same as for v255t in August 2013 (and earlier: Jun 13, Mar 13, Mar 12, Nov 11). As for the earlier experiments for the ICRF observations it is 2 IFs with different polarizations. The times for the setup (mode) changes are given above.

ATCA :

For the ATCA please phase-up antennas CA01 through CA05 for this experiment.

Setup as for a 2p-4IF experiment (dual DAS with Huygens cable for entire experiment) with DAS1 tuned to the lower frequency and DAS2 to the upper frequency. Use the feature in cdisco version 4 to automate the changes of channel selection as per the following table. v255u.5cm Channels 5-8
v255u.5cm-icrf Channels 1,2,7,8

Parkes :

Not observing during these times:

323 / 12:54 - 13:58

323 / 15:19 - 16:00

323 / 17:00 - 17:35

323 / 21:22 - 21:52

324 / 05:58 - 06:28

324 / 08:13 - 10:00

Observing comments for each antenna:

[Pa](#) [At](#) [Mp](#) [Ho](#) [Cd](#)

Observing Logs

[Parkes onsource flagging](#)

[ATCA onsource flagging](#)

[Mopra onsource flagging](#)

[Mopra Tsys \(plot\)](#)

[Parkes Tsys](#)

Weather

[ATCA Weather](#)

[Mopra Weather](#)

[Parkes Weather](#)

Monica log information - EXPERIMENTAL:

[Mopra Tsys](#)

[Parkes Tsys](#)

[ATCA Tsys](#)

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