

v255ab

Description	Proper motion and Parallax of Methanol Masers: A search for infalling ga
Antennas	At-Cd-Ho-Mp-Wa-Hh
Start	179 13:00:00
Stop	180 14:00:00
PI	S.P. Ellingsen

Setup v255ab.5cm-icrf:

Station Modes	At Cd Ho Mp
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)
Station Modes	Wa Hh
Channel 1	6300 - 6316 MHz USB RCP
Channel 2	6316 - 6332 MHz USB RCP
Channel 3	6642 - 6658 MHz USB LCP
Channel 4	6658 - 6674 MHz USB LCP
Bandwidth	16 MHz
DAS Mode	Mark5

Setup v255ab.5cm:

Station Modes	At Cd Ho Mp
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)
Station Modes	Wa Hh
Channel 1	6642 - 6658 MHz USB RCP
Channel 2	6642 - 6658 MHz USB LCP
Channel 3	6658 - 6674 MHz USB RCP
Channel 4	6658 - 6674 MHz USB LCP
Bandwidth	16 MHz
DAS Mode	Mark5

Mode changes:

179 13:00:00 v255ab.5cm

179 14:05:00 v255ab.5cm-icrf

179 15:00:30 v255ab.5cm

179 19:30:00 v255ab.5cm-icrf
179 21:59:30 v255ab.5cm
180 03:59:00 v255ab.5cm-icrf
180 04:59:30 v255ab.5cm
180 08:00:00 v255ab.5cm-icrf
180 08:54:00 v255ab.5cm
180 13:00:00 v255ab.5cm-icrf

Ftp: <ftp://ftp.atnf.csiro.au/pub/people/vlbi/v255/v255ab>

Comments:

The purpose of these observations is to obtain an epoch of proper motion/parallax for four groups of maser sources (G269.456/G269.658) ; (G294.990/G298.262) ; (G326.475/G328.81) ; (G345.01/G345.00)

Maser emission at approx. 6666.63 (G269.456), 6667.51 (G269.658), 6668.27 (G294.990), 6668.67 (G298.262), 6669.12 (G326.475), 6669.27 (G328.81), 6668.26 (G345.01), 6668.99 (G345.00).

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 v255ab.5cm setup. Please don't change the attenuation into the DAS when the setup changes as that may change the delay.

ATCA:

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

Observing comments for each antenna:

At	Cd	Ho	Mp	Wa	Hh
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Observing Logs

[ATCA antenna summary](#)
[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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