

## v255z

<b>Description</b>	Proper motion and Parallax of Methanol Masers: A search for infalling ga
<b>Antennas</b>	At-Hh-Ho-Mp-Cd-Wa
<b>Start</b>	274 20:00:00
<b>Stop</b>	275 22:00:00
<b>PI</b>	S.P. Ellingsen

Setup v255z.5cm-icrf: NIF=4

<b>Station Modes</b>	At Ho Mp Cd
<b>Channel 1</b>	IFP#1-L0 6300 - 6316 MHz USB RCP
<b>Channel 2</b>	IFP#1-HI 6316 - 6332 MHz USB RCP
<b>Channel 3</b>	IFP#2-L0 6642 - 6658 MHz USB LCP
<b>Channel 4</b>	IFP#2-HI 6658 - 6674 MHz USB LCP
<b>DAS 1 Skyfreq</b>	6316 & 6658 MHz
<b>Bandwidth</b>	16 MHz
<b>DAS Mode</b>	vsop.pro ( <a href="#">telescope</a> )
<b>Station Modes</b>	Hh Wa
<b>Channel 1</b>	6300 - 6316 MHz USB RCP
<b>Channel 2</b>	6316 - 6332 MHz USB RCP
<b>Channel 3</b>	6642 - 6658 MHz USB LCP
<b>Channel 4</b>	6658 - 6674 MHz USB LCP
<b>Bandwidth</b>	16 MHz
<b>DAS Mode</b>	Mark5

Setup v255z.5cm: NIF=2

<b>Station Modes</b>	At Ho Mp Cd
<b>Channel 1</b>	IFP#1-L0 6642 - 6658 MHz USB RCP
<b>Channel 2</b>	IFP#1-HI 6658 - 6674 MHz USB RCP
<b>Channel 3</b>	IFP#2-L0 6642 - 6658 MHz USB LCP
<b>Channel 4</b>	IFP#2-HI 6658 - 6674 MHz USB LCP
<b>DAS 1 Skyfreq</b>	6658 MHz
<b>Bandwidth</b>	16 MHz
<b>DAS Mode</b>	vsop.pro ( <a href="#">telescope</a> )
<b>Station Modes</b>	Hh Wa
<b>Channel 1</b>	6642 - 6658 MHz USB RCP
<b>Channel 2</b>	6642 - 6658 MHz USB LCP
<b>Channel 3</b>	6658 - 6674 MHz USB RCP
<b>Channel 4</b>	6658 - 6674 MHz USB LCP
<b>Bandwidth</b>	16 MHz
<b>DAS Mode</b>	Mark5

### Mode changes:

274 20:00:00 v255z.5cm

274 22:05:00 v255z.5cm-icrf

274 23:00:30 v255z.5cm  
275 03:00:30 v255z.5cm-icrf  
275 03:45:30 v255z.5cm  
275 08:30:30 v255z.5cm-icrf  
275 09:15:30 v255z.5cm  
275 13:20:00 v255z.5cm-icrf  
275 15:45:00 v255z.5cm  
275 19:08:00 v255z.5cm-icrf  
275 19:52:00 v255z.5cm  
275 21:53:00 v255z.5cm-icrf

Ftp: <ftp://ftp.atnf.csiro.au/pub/people/vlbi/v255/v255z>

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## Comments:

The purpose of these observations is to obtain an epoch of proper motion/parallax for G287.371, G291.274, G316.64, G316.84, G345.01, G345.00 and some observations of NGC6334F (which has shown an unusual flare).

The G287.371 observations should show a modest peak at a sky frequency of 6668.23 MHz. The G291.274 observations should show a modest peak at a sky frequency around 6669.82 MHz. The G316.64 and G316.84 observations should show a peak at a sky frequency of around 6668.54 and 6669.09 respectively, G345.01 and G345.00 should show peaks at sky frequencies of 6668.54 and 6668.57 MHz and NGC6334F should show a strong peak at 6668.32 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 v255z.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.

### Hart :

Observing during these times:

275 / 03:00 - 03:45  
275 / 04:33 - 05:30  
275 / 07:32 - 15:30

## Warkworth :

Not observing 275 12:24 - 13:10

## Observing comments for each antenna:

<a href="#">At</a>	<a href="#">Hh</a>	<a href="#">Ho</a>	<a href="#">Mp</a>	<a href="#">Cd</a>	<a href="#">Wa</a>
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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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