

v544a

Description	Astrometric measurements of the first water fountain planetary nebula
Antennas	At-Mp-Cd-Ho-Pa
Start	302 20:00:00
Stop	303 08:59:05
PI	Gabor Orosz

Setup v544.1cm-geod:

Station Modes	At Mp Cd Ho Pa
Channel 1	IFP#1-L0 22000 - 22016 MHz USB RCP
Channel 2	IFP#1-HI 22016 - 22032 MHz USB RCP
Channel 3	IFP#2-L0 22500 - 22516 MHz USB LCP
Channel 4	IFP#2-HI 22516 - 22532 MHz USB LCP
DAS 1 Skyfreq	22016 & 22516 MHz
Bandwidth	16 MHz
DAS Mode	vsop.pro (telescope)

Setup v544.1cm:

Station Modes	At Mp Cd Ho Pa
Channel 1	IFP#1-L0 22211 - 22227 MHz USB RCP
Channel 2	IFP#1-HI 22227 - 22243 MHz USB RCP
Channel 3	IFP#2-L0 22211 - 22227 MHz USB LCP
Channel 4	IFP#2-HI 22227 - 22243 MHz USB LCP
DAS 1 Skyfreq	22227 MHz
Bandwidth	16 MHz
DAS Mode	vsop.pro (telescope)

Mode changes:

302 20:00:00 v544.1cm
 302 21:20:00 v544.1cm-geod
 302 22:06:59 v544.1cm
 303 02:55:41 v544.1cm-geod
 303 03:33:41 v544.1cm
 303 08:21:13 v544.1cm-geod

Ftp: <ftp://ftp.atnf.csiro.au/pub/people/vlbi/v544/v544a>

Comments:

Hobart and Ceduna: The 4 x 16 MHz bandpass setup requires feeding two separate LOs into IFP#1 and #2 on the DAS/frequency translator. For both Hobart and Ceduna the LOs should be set to 706 MHz (IFP#1) and 206 MHz (IFP#2) for the 4 x 16 MHz setup and 495 MHz for the 2 x 16 MHz setup. For Hobart use 16.37 GHz as the Agilent frequency and for Ceduna use 17.47 GHz. For the 4x16 MHz setup 880.2 and 900.2 MHz should give coherence in IF#1 and IF#2 respectively, while for the 2x16

MHz use 888.64 MHz to check coherence (these tones apply for both Hobart and Ceduna).

The level into IF#2 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 v490d.1cm setup - it doesn't matter if the system temperature measurement doesn't work for the second IF during the ICRF observations as these are only to calibrate the delay. Please don't change the attenuation into the DAS when the setup changes as that may change the delay.

Observing comments for each antenna:

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

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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