

## re07a

<b>Description</b>	RadioAstron/LBA Vela pulsar observations
<b>Antennas</b>	Mp-Ti-Ho-Pa-Hh
<b>Start</b>	131 09:00:00
<b>Stop</b>	131 13:00:00
<b>PI</b>	Yuri Kovalev

Setup ra18cm2:

<b>Station Modes</b>	Mp Ho Pa
<b>Channel 1</b>	IFP#1-L0 1644 - 1660 MHz LSB RCP
<b>Channel 2</b>	IFP#1-HI 1660 - 1676 MHz USB RCP
<b>Channel 3</b>	IFP#2-L0 1644 - 1660 MHz LSB LCP
<b>Channel 4</b>	IFP#2-HI 1660 - 1676 MHz USB LCP
<b>DAS 1 Skyfreq</b>	1660 MHz
<b>Bandwidth</b>	16 MHz
<b>DAS Mode</b>	16mhz_ul ( <a href="#">telescope</a> )
<b>Station Modes</b>	Ti
<b>Channel 1</b>	1644 - 1660 MHz LSB LCP
<b>Channel 2</b>	1660 - 1676 MHz USB LCP
<b>Bandwidth</b>	16 MHz
<b>DAS Mode</b>	Mark5
<b>Station Modes</b>	Hh
<b>Channel 1</b>	1644 - 1660 MHz LSB RCP
<b>Channel 2</b>	1660 - 1676 MHz USB RCP
<b>Channel 3</b>	1644 - 1660 MHz LSB LCP
<b>Channel 4</b>	1660 - 1676 MHz USB LCP
<b>Bandwidth</b>	16 MHz
<b>DAS Mode</b>	Mark5

Ftp: <ftp://ftp.atnf.csiro.au/pub/people/vlbi/radioastron/re07a>

## Comments:

### **NOTE NOTE NOTE NOTE**

This is a non-standard setup including

- USB/LSB DAS profile
- **Turn noise cal off**
- **Turn DAS Gain loop off**
- Turn phasecal off if present

## Disabling Noise Cal

ATCA: type "set diode off" in caobs

Mopra: In attest under "noiscl", select "LSNoise" to off . (to confirm with Tasso)

Parkes: pkmc → "Cal Control Unit" → select current Rx on matrix and set to "off"

## Disabling Noise Cal (ATNF DAS GUI)

- Adjust external attenuation so that the IF level is approx mid band
- Select "Details" under "Monitor View"
- Monitor the "Level" value for IFP#1 and IFP#2 and estimate a time averaged value (Tid only needs to worry about one IFP)
- Record the two average level values
  
- Under "Config Sftw" select "Filters -> Band Splitter"
- Set "Gain Control" to Manual for both IFP (in the lower right region under "Statistics")
- Set the two Gain levels to  $4*(255-Level)$  where level is the value to measured above
- Click the "Config Hdw" button
  
- On the "Details Monitor view" display check the Level is ~ 128
- Adjust the attenuation if the level wanders away too much from 128 - each number is ~ 0.1dB.
- Monitor VLBI sampler statistics stay around nominal 17.3%/32.7%

## Observing comments for each antenna:

Mp	Ti	Ho	Pa	Hh
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## 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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Last update: **2015/12/18 16:38**