

Participating Tid telescopes:

DSS-43 (70m) with DVP (at S/X-RCP) recording MK5 HOB+1005/16000/1024 (shipped to Parkes for e-transfer)

and

DSS-36 (34m) with LBA-DR (at X-RCP, vsop\_f.pro)

Below is allocated Tid time:

DOY 168 0650-1220 DSS-43 S/X DVP

DOY 168 2030-2200 DSS-43 S/X DVP

DOY 169 0655-0835 DSS-43 S/X DVP

DOY 169 1245-1615 DSS-36 X LBA-DR

DOY 169 1400-2200 DSS-43 S/X DVP

Note for correlator: There was an issue with 70m dichroic mirror around this epoch that may cause the S-band reception not to work properly. Please give us feedback how you find the data. Shinji Horiuchi

DOY 168

07:08:22 70m started on source (1624-721)

12:02:59 70m stopped and stows

20:48:01 70m started on source (2227-627)

DOY 169

07:15:12 70m started on source (1219-603)

08:14:14 70m stopped and stow

12:56:40 DSS-36 started on source (1934-638)

14:15:03 70m started on source (1854-609)

16:01:00 DSS-36 stopped and stowed

20:40:03 70m stopped and stowed

Note to Correlator added on 2 August 2017

The core part of the DVP script generated from the vex file for this experiment is the following.

#####

#- set base frequency for IFA

A FROV 8100.00M

A RF\_TO\_IF\_LO 8100

#- set base frequency for IFB

B FROV 2000.00M

B RF\_TO\_IF\_LO 2000

#- set channel configuration for IFA

A CHANX 1 32M 2 UL #- USB/LSB

A CHANX 2 32M 2 UL #- USB

A CHANX 3 32M 2 UL #- USB

A CHANX 4 32M 2 UL #- USB

A CHANX 5 32M 2 UL #- USB

A CHANX 6 32M 2 UL #- USB

A CHANX 7 32M 2 UL #- USB

A CHANX 8 32M 2 UL #- USB/LSB

#- set channel configuration for IFB

B CHANX 9 32M 2 UL #- USB

B CHANX 10 32M 2 UL #- USB

B CHANX 11 32M 2 UL #- USB

B CHANX 12 32M 2 UL #- USB

B CHANX 13 32M 2 UL #- USB

B CHANX 14 32M 2 UL #- USB

#- setting SFRO for each channel for IFA

SFRO 1 114M #- USB/LSB

SFRO 2 130M #- USB

SFRO 3 370M #- USB

SFRO 4 386M #- USB

SFRO 5 674M #- USB

SFRO 6 738M #- USB

SFRO 7 802M #- USB

SFRO 8 834M #- USB/LSB

##- setting SFRO for each channel for IFB

SFRO 9 124M #- USB

SFRO 10 144M #- USB

SFRO 11 164M #- USB

SFRO 12 194M #- USB

SFRO 13 244M #- USB

SFRO 14 264M #- USB

##- set the IF source for IFA

A IFS 43\_X\_RCP

##- set the IF source for IFB

B IFS 43\_S\_RCP

#####

The channel mapping is to be translated as follows:

# X-band (Note: Tid X-band coverage is only 8200-8600 MHz, making Ch9-16 useless)

Ch1 8198-8214

Ch2 8214-8230

Ch3 8214-8230

Ch4 8230-8246

Ch5 8454-8470

Ch6 8470-8486

Ch7 8470-8486

Ch8 8486-8502

Ch9 8758-8774

Ch10 8774-8790

Ch11 8822-8838

Ch12 8838-8854

Ch13 8886-8902

Ch14 8902-8918

Ch15 8918-8934

Ch16 8934-8950

#- S-band

Ch17 2108-2124

Ch18 2124-2140

Ch19 2128-2144

Ch20 2144-2160

Ch21 2148-2164

Ch22 2164-2180

Ch23 2178-2194

Ch24 2194-2210

Ch25 2228-2244

Ch26 2244-2260

Ch27 2248-2264

Ch28 2264-2280

Due to the error with the program to generate the DVP script from the vex file the channel frequency allocation was based on a wrong LO frequency of 2100 MHz while the true LO frequency was 2000 MHz.

Note added on 10 August - Tsys files have been generated and distributed to PI and uploaded to the ftp incoming directory.

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