# gg083d

| | |
|---|---|
| **Description** | RadioAstron polarization imaging |
| **Antennas** | Jb-Ur-Tr-Mc-Ys-Hh-Sv-Zc-Ku-Ky-Kt-T6-Ef-Gt-Hn-Sc-Nl-Br-La-Kp-Fd-Pt-Ov-Mk-Gb-Y-At-Mp-Cd-Ho-Pa-Pu |
| **Start** | 39 21:59:49 |
| **Stop** | 40 22:11:00 |
| **PI** | Jose L. Gomez |

Setup ra1cm2:

| | |
|---|---|
| **Station Modes** | Jb Ur T6 |
| **Channel 1** | 22236 - 22252 MHz USB RCP |
| **Channel 2** | 22220 - 22236 MHz LSB RCP |
| **Channel 3** | 22236 - 22252 MHz USB LCP |
| **Channel 4** | 22220 - 22236 MHz LSB LCP |
| **Channel 5** | 22268 - 22284 MHz USB RCP |
| **Channel 6** | 22252 - 22268 MHz LSB RCP |
| **Channel 7** | 22268 - 22284 MHz USB LCP |
| **Channel 8** | 22252 - 22268 MHz LSB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Tr |
| **Channel 1** | 22236 - 22252 MHz USB RCP |
| **Channel 2** | 22220 - 22236 MHz LSB RCP |
| **Channel 3** | 22236 - 22252 MHz USB LCP |
| **Channel 4** | 22220 - 22236 MHz LSB LCP |
| **Channel 5** | 22268 - 22284 MHz USB RCP |
| **Channel 6** | 22252 - 22268 MHz LSB RCP |
| **Channel 7** | 22268 - 22284 MHz USB LCP |
| **Channel 8** | 22252 - 22268 MHz LSB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Mc Ys Hh Ef |
| **Channel 1** | 22236 - 22252 MHz USB RCP |
| **Channel 2** | 22220 - 22236 MHz LSB RCP |
| **Channel 3** | 22236 - 22252 MHz USB LCP |
| **Channel 4** | 22220 - 22236 MHz LSB LCP |
| **Channel 5** | 22268 - 22284 MHz USB RCP |
| **Channel 6** | 22252 - 22268 MHz LSB RCP |
| **Channel 7** | 22268 - 22284 MHz USB LCP |
| **Channel 8** | 22252 - 22268 MHz LSB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Sv Zc Ho |
| **Channel 1** | 22236 - 22252 MHz USB RCP |
| **Channel 2** | 22220 - 22236 MHz LSB RCP |
| **Channel 3** | 22236 - 22252 MHz USB LCP |

| | |
|---|---|
| **Channel 4** | 22220 - 22236 MHz LSB LCP |
| **Channel 5** | 22268 - 22284 MHz USB RCP |
| **Channel 6** | 22252 - 22268 MHz LSB RCP |
| **Channel 7** | 22268 - 22284 MHz USB LCP |
| **Channel 8** | 22252 - 22268 MHz LSB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Ku Ky Kt |
| **Channel 1** | 22220 - 22236 MHz LSB RCP |
| **Channel 2** | 22236 - 22252 MHz USB RCP |
| **Channel 3** | 22220 - 22236 MHz LSB LCP |
| **Channel 4** | 22236 - 22252 MHz USB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Gt Pu |
| **Channel 1** | 22236 - 22252 MHz USB RCP |
| **Channel 2** | 22220 - 22236 MHz LSB RCP |
| **Channel 3** | 22236 - 22252 MHz USB LCP |
| **Channel 4** | 22220 - 22236 MHz LSB LCP |
| **Channel 5** | 22268 - 22284 MHz USB RCP |
| **Channel 6** | 22252 - 22268 MHz LSB RCP |
| **Channel 7** | 22268 - 22284 MHz USB LCP |
| **Channel 8** | 22252 - 22268 MHz LSB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Hn Sc Nl Br La Kp Fd Pt Ov Mk Gb Y |
| **Channel 1** | 22156 - 22188 MHz USB RCP |
| **Channel 2** | 22156 - 22188 MHz USB LCP |
| **Channel 3** | 22188 - 22220 MHz USB RCP |
| **Channel 4** | 22188 - 22220 MHz USB LCP |
| **Channel 5** | 22220 - 22252 MHz USB RCP |
| **Channel 6** | 22220 - 22252 MHz USB LCP |
| **Channel 7** | 22252 - 22284 MHz USB RCP |
| **Channel 8** | 22252 - 22284 MHz USB LCP |
| **Bandwidth** | 32 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | At Mp Pa |
| **Channel 1** | DAS #1 IFP#1-LO 22220 - 22236 MHz LSB RCP |
| **Channel 2** | DAS #1 IFP#1-HI 22236 - 22252 MHz USB RCP |
| **Channel 3** | DAS #1 IFP#2-LO 22220 - 22236 MHz LSB LCP |
| **Channel 4** | DAS #1 IFP#2-HI 22236 - 22252 MHz USB LCP |
| **Channel 5** | DAS #2 IFP#1-LO 22252 - 22268 MHz LSB RCP |
| **Channel 6** | DAS #2 IFP#1-HI 22268 - 22284 MHz USB RCP |
| **Channel 7** | DAS #2 IFP#2-LO 22252 - 22268 MHz LSB LCP |
| **Channel 8** | DAS #2 IFP#2-HI 22268 - 22284 MHz USB LCP |
| **DAS 1 Skyfreq** | 22236 MHz |

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|---|---|
| **DAS 2 Skyfreq** | 22268 MHz |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | 16mhz_ul (telescope) |
| **Station Modes** | Cd |
| **Channel 1** | 22220 - 22236 MHz LSB RCP |
| **Channel 2** | 22236 - 22252 MHz USB RCP |
| **Channel 3** | 22220 - 22236 MHz LSB LCP |
| **Channel 4** | 22236 - 22252 MHz USB LCP |
| **Channel 5** | 22252 - 22268 MHz LSB RCP |
| **Channel 6** | 22268 - 22284 MHz USB RCP |
| **Channel 7** | 22252 - 22268 MHz LSB LCP |
| **Channel 8** | 22268 - 22284 MHz USB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |

Setup vla_x_pointing:

| | |
|---|---|
| **Station Modes** | Y |
| **Channel 1** | 8332 - 8460 MHz USB RCP |
| **Channel 2** | 8332 - 8460 MHz USB LCP |
| **Channel 3** | 8460 - 8588 MHz USB RCP |
| **Channel 4** | 8460 - 8588 MHz USB LCP |
| **Bandwidth** | 128 MHz |
| **DAS Mode** | Mark5 |

Setup ra7mm2:

| | |
|---|---|
| **Station Modes** | Ys Ef |
| **Channel 1** | 43143.25 - 43159.25 MHz USB RCP |
| **Channel 2** | 43127.25 - 43143.25 MHz LSB RCP |
| **Channel 3** | 43143.25 - 43159.25 MHz USB LCP |
| **Channel 4** | 43127.25 - 43143.25 MHz LSB LCP |
| **Channel 5** | 43175.25 - 43191.25 MHz USB RCP |
| **Channel 6** | 43159.25 - 43175.25 MHz LSB RCP |
| **Channel 7** | 43175.25 - 43191.25 MHz USB LCP |
| **Channel 8** | 43159.25 - 43175.25 MHz LSB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Ku Ky Kt |
| **Channel 1** | 43143.25 - 43159.25 MHz USB RCP |
| **Channel 2** | 43127.25 - 43143.25 MHz LSB RCP |
| **Channel 3** | 43143.25 - 43159.25 MHz USB LCP |
| **Channel 4** | 43127.25 - 43143.25 MHz LSB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Hn Sc Nl Br La Kp Fd Pt Ov Mk Y |
| **Channel 1** | 43127.25 - 43159.25 MHz USB RCP |

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|---|---|
| **Channel 2** | 43127.25 - 43159.25 MHz USB LCP |
| **Channel 3** | 43159.25 - 43191.25 MHz USB RCP |
| **Channel 4** | 43159.25 - 43191.25 MHz USB LCP |
| **Channel 5** | 43191.25 - 43223.25 MHz USB RCP |
| **Channel 6** | 43191.25 - 43223.25 MHz USB LCP |
| **Channel 7** | 43223.25 - 43255.25 MHz USB RCP |
| **Channel 8** | 43223.25 - 43255.25 MHz USB LCP |
| **Bandwidth** | 32 MHz |
| **DAS Mode** | Mark5 |

Setup ra2cm2:

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|---|---|
| **Station Modes** | Ef |
| **Channel 1** | 15385 - 15401 MHz USB RCP |
| **Channel 2** | 15369 - 15385 MHz LSB RCP |
| **Channel 3** | 15385 - 15401 MHz USB LCP |
| **Channel 4** | 15369 - 15385 MHz LSB LCP |
| **Channel 5** | 15417 - 15433 MHz USB RCP |
| **Channel 6** | 15401 - 15417 MHz LSB RCP |
| **Channel 7** | 15417 - 15433 MHz USB LCP |
| **Channel 8** | 15401 - 15417 MHz LSB LCP |
| **Bandwidth** | 16 MHz |
| **DAS Mode** | Mark5 |
| **Station Modes** | Hn Sc Nl Br La Kp Fd Pt Ov Mk Y |
| **Channel 1** | 15337 - 15369 MHz USB RCP |
| **Channel 2** | 15337 - 15369 MHz USB LCP |
| **Channel 3** | 15369 - 15401 MHz USB RCP |
| **Channel 4** | 15369 - 15401 MHz USB LCP |
| **Channel 5** | 15401 - 15433 MHz USB RCP |
| **Channel 6** | 15401 - 15433 MHz USB LCP |
| **Channel 7** | 15433 - 15465 MHz USB RCP |
| **Channel 8** | 15433 - 15465 MHz USB LCP |
| **Bandwidth** | 32 MHz |
| **DAS Mode** | Mark5 |

**Mode changes:**
39 21:59:49 ra1cm2
39 22:51:19 ra7mm2
39 22:51:19 ra1cm2
40 02:29:49 ra7mm2
40 02:35:19 ra1cm2
40 02:40:49 ra2cm2
40 02:45:19 ra7mm2
40 02:50:49 ra1cm2
40 02:56:19 ra2cm2
40 03:00:49 ra7mm2
40 03:06:49 ra1cm2
40 03:12:19 ra2cm2

40 02:59:49 ra1cm2
40 03:16:30 ra7mm2
40 03:21:49 ra1cm2
40 03:27:19 ra2cm2
40 03:31:49 ra7mm2
40 03:41:19 ra1cm2
40 03:48:19 ra2cm2
40 03:12:00 ra1cm2
40 03:38:49 ra2cm2
40 03:45:49 ra1cm2
40 03:45:49 ra7mm2
40 04:04:49 ra1cm2
40 04:11:49 ra2cm2
40 04:16:19 ra7mm2
40 04:25:49 ra1cm2
40 04:32:49 ra2cm2
40 04:37:19 ra7mm2
40 04:46:49 ra2cm2
40 03:54:49 ra1cm2
40 04:59:49 ra7mm2
40 05:03:00 ra1cm2
40 05:06:00 ra2cm2
40 05:09:00 vla_x_pointing
40 05:35:19 ra1cm2
40 06:05:49 vla_x_pointing
40 06:11:19 ra7mm2
40 06:11:19 ra1cm2
40 06:22:19 ra2cm2
40 06:22:19 ra1cm2
40 07:04:39 vla_x_pointing
40 07:04:49 ra1cm2
40 07:16:49 ra7mm2
40 07:16:49 ra1cm2
40 07:26:49 ra2cm2
40 07:26:49 ra1cm2
40 08:36:39 vla_x_pointing
40 08:40:30 ra7mm2
40 08:48:40 ra1cm2
40 08:56:50 ra2cm2
40 08:35:19 ra1cm2
40 09:06:39 vla_x_pointing
40 09:02:19 ra1cm2
40 09:10:30 ra2cm2
40 09:18:49 ra7mm2
40 09:29:19 ra1cm2
40 09:32:49 vla_x_pointing
40 09:41:49 ra7mm2
40 09:47:49 ra1cm2
40 09:53:49 ra2cm2
40 09:58:49 ra1cm2
40 10:02:49 vla_x_pointing

40 10:06:40 ra7mm2
40 10:13:50 ra1cm2
40 10:21:00 ra2cm2
40 10:04:49 ra1cm2
40 10:31:19 vla_x_pointing
40 10:35:19 ra2cm2
40 10:35:19 ra1cm2
40 10:43:49 ra7mm2
40 10:54:19 ra1cm2
40 11:32:49 vla_x_pointing
40 11:37:49 ra7mm2
40 11:43:49 ra1cm2
40 11:49:19 ra2cm2
40 11:55:49 vla_x_pointing
40 11:59:40 ra7mm2
40 12:07:50 ra1cm2
40 12:16:00 ra2cm2
40 12:25:39 vla_x_pointing
40 11:54:49 ra1cm2
40 12:21:19 ra2cm2
40 12:29:49 ra1cm2
40 13:10:19 ra7mm2
40 13:20:49 ra2cm2
40 13:31:29 vla_x_pointing
40 13:30:19 ra1cm2
40 13:36:19 ra7mm2
40 13:44:19 ra1cm2
40 13:49:59 vla_x_pointing
40 13:54:19 ra1cm2
40 14:24:49 ra7mm2
40 14:24:49 ra1cm2
40 14:54:49 ra7mm2
40 15:00:49 ra1cm2
40 14:54:49 vla_x_pointing
40 14:58:40 ra7mm2
40 15:05:50 ra1cm2
40 15:13:00 ra2cm2
40 15:20:49 vla_x_pointing
40 15:24:49 ra1cm2
40 16:05:49 ra7mm2
40 16:22:19 ra1cm2
40 17:38:49 ra7mm2
40 17:55:49 ra1cm2

Ftp: ftp://ftp.atnf.csiro.au/pub/people/vlbi/gg083/gg083d

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## Comments:

## Observing comments for each antenna:

Jb Ur Tr Mc Ys Hh Sv Zc Ku Ky Kt T6 Ef Gt Hn Sc Nl Br La Kp Fd Pt Ov Mk Gb Y At Mp Cd Ho Pa Pu

## 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

Mopra Tsys
Parkes Tsys
ATCA Tsys
ATNF Clock Offsets