

CS-1 operations

Michiel Brentjens

Instrument status

Stations

- CS030C – CS032C were down due to ground fault circuit interruptor (fixed)
- Windows laptops on CS008 and CS010 (used for debugging firmware) had same problem. Laptop on CS010 is working again.
- CS001 power supply moved from port 5 to port 7. Can be monitored remotely now;
- When RSP ring is on, timestamps on data are incorrect. Cause is unknown, possibly related to delay in some config file. Temporary solution: observe with ring switched off. Consequence: no beam-forming of more than 4 dipoles.

Instrument status

Network and CEP

- CS001T data would swamp the network on CEP whenever we were doing normal observations, resulting in many flagged data. The temporary solution: switch off CS001T when observing. Permanent fix by Klaas Stuurwold appears to be working.
- Production binaries on BGL do not yet support data from Dwingeloo. Martin Gels installed development versions now.
- Some antennae on CS010 dead.

Instrument plans

Stations

- install HBA delay boards in one tile at CS010 (tomorrow)
- Roll out improved beamctl software to stations (no date picked yet)
- Upgrade firmware on stations (CS010 and CS001 done today)
- Solve issue with RSP ring and timestamps

Network/CEP

- prepare for accepting data from Dwingeloo and Effelsberg
- debugging of input cluster-less

Last weekend's observations

L2007_04322

- HBA 110 – 190 MHz
- 70+ hours on NCP
- 16 micro stations
- 10 seconds integration
- 36 subbands
- BIG DATASET (approximately 1 TB)

Last weekend's observations

Inspection

- plotting scripts Casey extremely slow on this dataset. NOT CAUSED BY PLOTTING SCRIPT, but by many disk seeks due to ≈ 24000 timeslots (times 8 ms)
- HBA positions of four dipoles on CS010 wrong on CEP (look like LBA positions). CS001, CS008, and CS016 are fine.
- Occasional small jumps in total powers for some antennae (see Ger's talk)

Observation plans

- LBI Exloo-Dwingeloo
- eVLBI Exloo-Effelsberg
- Basic validation of HBA tile (all sky maps with autocorrelations)
- Pulsar observation with HBA tile
- Preparations for Jupiter observation with Nancay (off-line VLBI).
- **Anything else?**