

## Radio Observatory Report

*Antonis Polatidis*

Station/Item	Cabinet	LBA	HBA	Fibre	CEP connection	Validated
CS302						
RS307						
RS503						
RS106						
RS208						
CS030						
CS401						
CS021						
CS032						
RS306						
CS301						
CS501						
RS509						
CS103						
CS001						
CS002						
CS003						
CS004						
CS005						
CS006						
CS007						
CS024						
CS201						
CS101						
CS026						
RS205						
CS017						
RS104						
RS210						
RS310						
RS404						
RS406						
RS407						
RS409						
RS410						
RS508						
Effelsberg						
Tautenburg						
Garching						
Potsdam						
Juelich						
Nancay						
Onsala						
Chilbolton						
Totals	32	31	29	29	29	23

- ← Val i d at ed
- ← Ant enna i nst al l at i on  
st art ed
- ← I nst al l at i on  
st art ed
- ← Ant enna i nst al l at i on  
f i n i s h e d
- ← Added to SAS/ MAC,  
LBA onl y
- ← HBAs bei ng  
i nst al l ed

# Observations & Commissioning

*week(all datasets starting with L2010\_)*

## **Week 10-14 May: Pulsar “Busy Week”**

- Installation and test of single clock to superterp stations
- See J. Hessels’ talk

## **17 May to now: Observations for LOFAR opening**

- HBA (~150 MHz) observations Cyg-A (17 May)
- HBA observations of Abel 2256 (\_07600)
- LBA observations of Cygnus A (\_07603)
- HBA observation of 0603+42 (\_07604)
- HBA observation of M51 (\_07619)
- Observations of Jupiter (\_07615)

Other tests of superterp single clock and of NL-DE long baseline observations

# Observing System

## Hardware/System Issues

*Observatory "White Board" in Wiki* ([http://www.lofar.org/operations/doku.php?id=operator:current\\_station\\_overview](http://www.lofar.org/operations/doku.php?id=operator:current_station_overview))

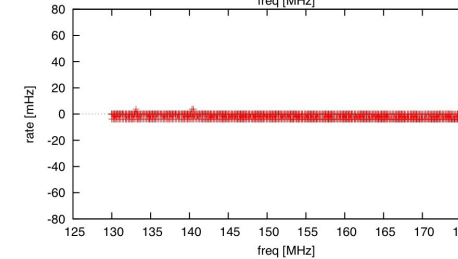
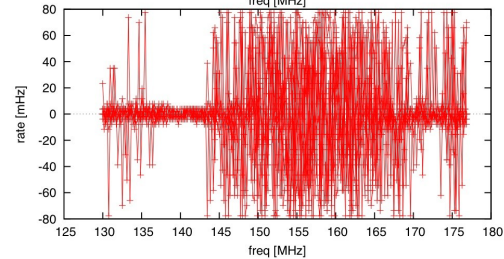
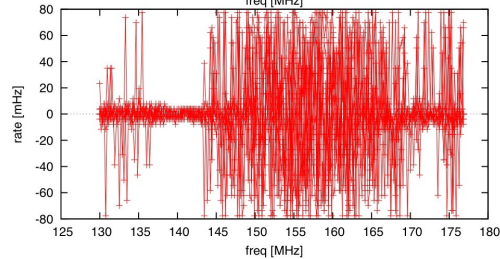
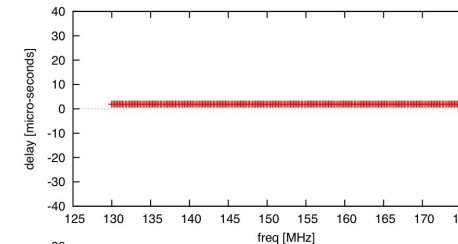
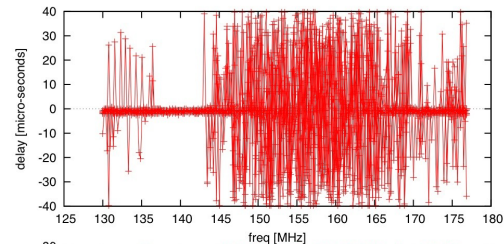
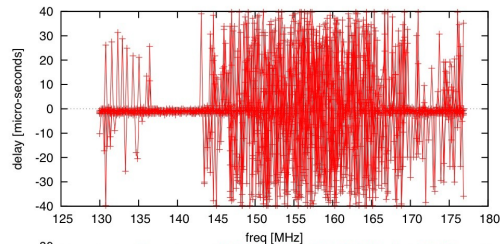
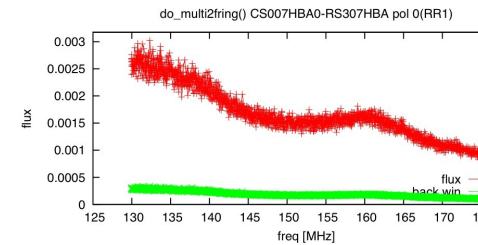
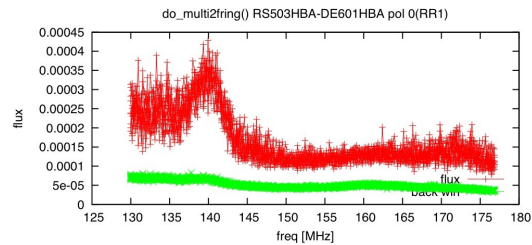
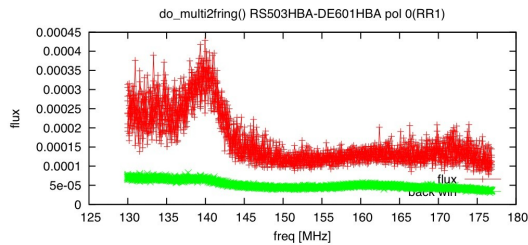
- IO Node BG/P failed on May 17 - fixed by IBM
- Most Storage Nodes fixed (May 19) however: LSE019 broken and fixed (21-23 May), LSE014 severe failure (25-26 May)
- CS032 GPS location problem 17-18 May, back online
- Various problems CS002, CS007, CS302 investigated and fixed.
- Ongoing inspection and repairs to all HBA stations
- Correction of HBA polarization cabling ongoing to all stations:  
RS205 corrected, CS003 inspected (today), CS101, CS024 next two days.

# Fringes to HBAs of Effelsberg and Tautenburg

*Observations:* eg. L2010\_07559 (HBA\_ZERO 3C196) & L2010\_07561 (HBA\_DUAL, 3C196)

Attainable with 61 beamlets, 244 sub-bands (cf. 248)

*Longer Observation:* \_07608 (3C196, RS + 1 CS + DE601 + DE603, 12 hours)



# Use of the Offline Cluster

The output data rate to the storage disks (/data1, /data2, /data3, /data4) severely affected when other processes are accessing those disks.

We therefore ask users to refrain from actions that access these disks (for example running NDPPP) without prior communication with the radio observatory ([sciencesupport@astron.nl](mailto:sciencesupport@astron.nl)).

PLAN: During observations requiring high datarates, the storage disks will not be NFS mounted to the compute nodes.

*Advanced warning will be given to users*

Processing of data stored in the compute nodes (/data/scratch/... areas) can be continued when the NFS daemons are not active.

- Commissioners:
- please clear up your work area in the Compute Nodes when finished:
  - Particularly if you have copied a sideband of raw data
  - any previous iterations of (N)DPPP
  - clear out any data used for “educational purposes”
  - notify support scientists if datasets are ready to be archived.
- Datasets in the Storage nodes:
  - Please notify support scientists/observers when you are satisfied with NDPPP-ed data to *remove* raw data from storage nodes.

# Schedule: June 2010



## Week: 31 May - 4 June 2010

Some participants of Imaging Busy weeks and from the EoR KSP will be in Dwingeloo.

# **JUNE 12: LOFAR OPENING**

June 14-16: BG/P driver update

June 23: Opening of Tautenburg Station

