

## Radio Observatory Report

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						
CS011						
CS013						
CS028						
CS031						
RS305 (RS104)						
RS210						
RS310						
RS404						
RS406						
RS407						
RS409						
RS410						
RS508						
Effelsberg						
Tautenburg						
Garching						
Potsdam						
Juelich						
Nancay						
Onsala						
Chilbolton						
Totals	40	40	40	38	36	36

} Expect availability in February

← Needs dipole configuration table

## Updates:

### **Fringes with 3 international stations and NL:**

Observations of 3C196, 3C147, 3C48 in weeks 2&3  
O. Wucknitz's presentation

### **Installation of CEP Phase II cluster started**

C. Broekema's talk

### **LTA: ready to push datasets to SARA and Jülich**

Caveats: Only for archiving purposes.

No h/w to further process data yet.

Can be used as area from KSPs to download data to their own processing facilities.

Designed for "averaged" data. If raw data we must plan carefully.

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# Observations

- LEA128: observations
- LEA102: Moon observations
- LEA066: Long Baseline observations (with DE603, FR607, UK608)
- Pulsar observations
- LEA122: Jupiter Interferometry and BF observations
- Interplanetary scintillation test observations

We had a few cases where observations failed. Causes were identified and are/will be fixed.

# Issues affecting the observing System

- 61 BEAMLETS: Plan to move the whole system to 61 beamlets by the end of next week (Week 5, 2011). This will yield 244 subbands (cf 248).
- Bug affecting Tied Array beamformed Raw Voltage data format taken since 20 Sept 2010 was fixed on Jan 14, 2011.

## **Hardware:**

DE601: (Effelsberg): Broken Rubidium clock.

DE604: (Potsdam): Problems with the fiber link.

RS205: Environment control problem.

CS501: Bad network connection

LSE014: received new main board and is online.

## Results from Stopday Jan 17

Reconfiguration of the network:

IP names for all stations changed.

International station connections moved to new (BG-L) switch.

Still limited to 64 I/O nodes in BG/P:

For HBA\_DUAL observations, HBA1 of CS030, CS013 and CS028 will be unavailable (to allow for international stations).

## Last week: Imaging Busy Week

~25 participants

Worked mainly on LBA observations of A-team sources.

Methods to remove the effects of the A-team from observations are under consideration.

A common disk area /globaldata is mounted on all the compute nodes.

/globaldata/gsm can be used to deposit images that may be included in the GSM. Email heald @astron.nl for more information.

# CALENDAR of requested busy weeks and other LOFAR activities

<http://www.astron.nl/radio-observatory/astronomers/commissioning/commisioning-plan>

- 24-28 January : Pulsar Busy week
- 31 January : CEP stopday - BG/P and postprocessing cluster unavailable
- 7 February : CEP stopday - Phase I cluster unavailable (move to a different switch)
- 21-25 March : Magnetism KSP Busy Week in Bonn (use of Phase I cluster)

