

Netherlands Institute for Radio Astronomy

Programme:

- 1. Array status & Observatory update E. Orru'
 - 2. MSSS Update: Flux scale and spectral indices G. Heald
 - 3. Update from the Nearby AGN group R. Morganti

Array Status

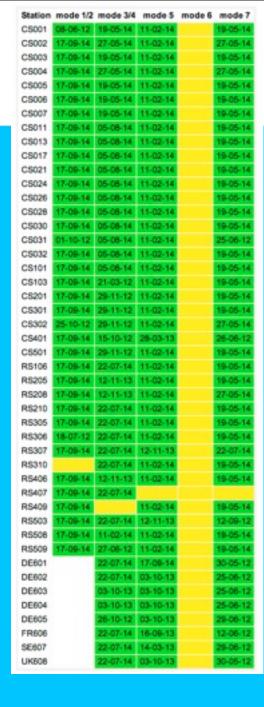




- 38 operational NL stations
 - 24 CSs
 - 14 RSs
- > 8 Is
- Maintenance/Repair ongoing on several stations.

Cabinet Cleaning Activity has started. They clean the inside of the cabinets. The clean or replace the outside air filters. They place airinlet improvement components below subrack 1 and 2 (lower board temperature) on all Dutch cabinets. Check the working of the air-air exchanger fans.

For CS004 replaced a SyncOptics receiver, that was broken after Cabinet Cleaning Activity.





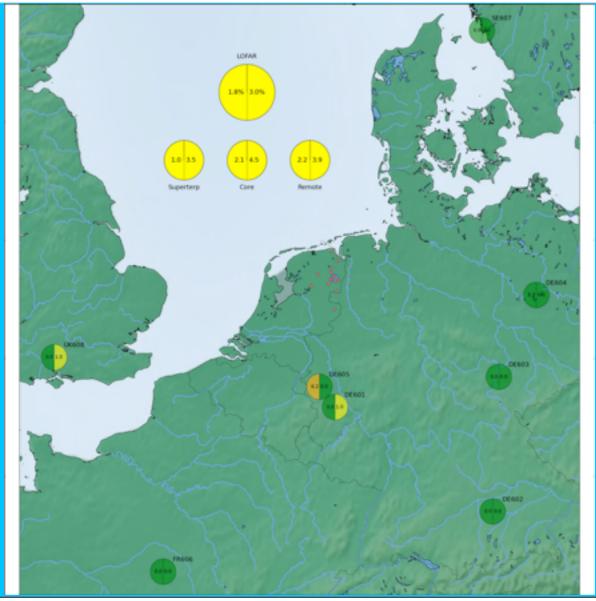
- Station calibration ongoing:
 - mode1 tables for core and remote stations installed
 - mode 5 tables in progress
- need to record new calibration data for DE601: mode 3, 5, 7

Overview, including IS

LBA: 1.8%; HBA: 3.0%

see https://proxy.lofar.eu/array_status/

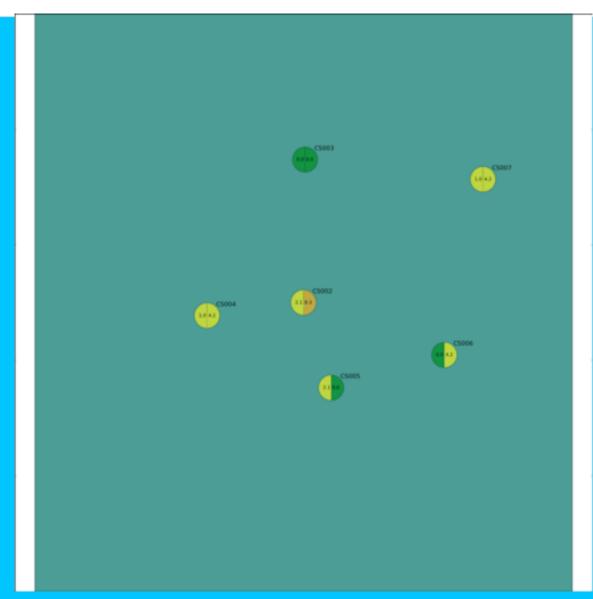




Superterp

LBA: 1.0%; HBA: 3.5%





Core Stations

LBA: 2.1%; HBA: 4.5%

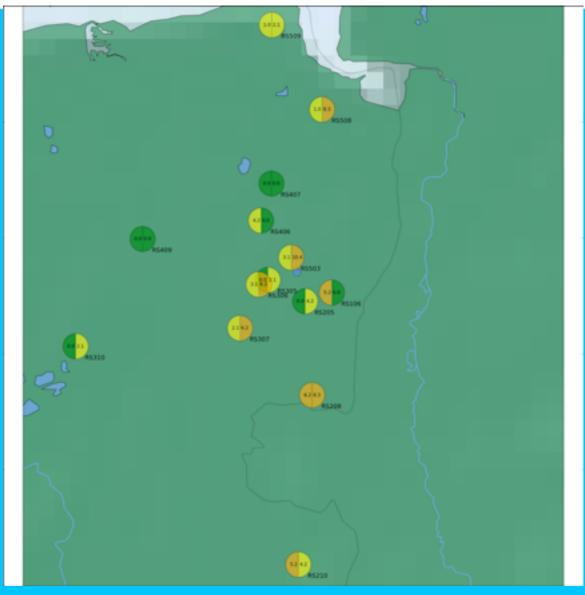




Remote Stations

LBA: 2.2%; HBA: 3.9%





News regarding the observing system

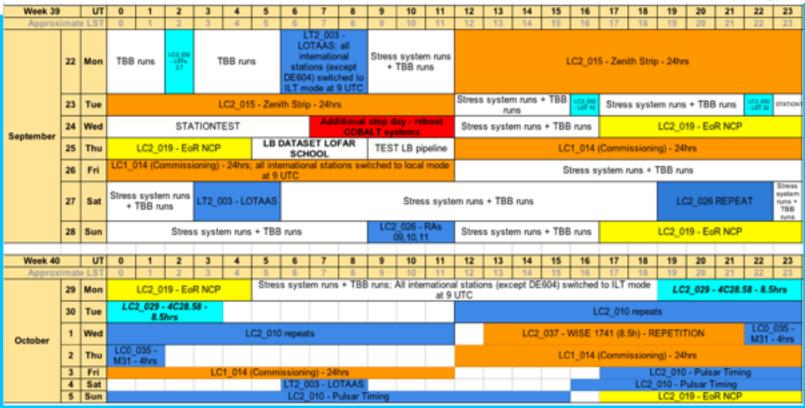


- System performed relatively fine during the last month. COBALT was rebooted cbt007 hanging.
- Decreased observation rate due to space disk on CEP2. Situation is improved after massive PSR data archive clean up thanks to close collaboration of the PSR group.
- Pipelines: no long processing queue but processing had some delays due to the currently avoided scheduling in parallel:
 - hanging locus nodes/swapping due to NDPPP high memory usage: a memory limitation during the flagging step is now set up to 10 GB (instead of 35 GB). Monitoring is ongoing by Ger van Diepen & Tammo Jan Dijkema.
 - HBA pipeline runs with demixing of 2 sources display P/O>6, i.e. a factor >2 higher than expected. Possible causes are: the system performance/ stability, the solver algorithm itself. A dedicated working group is investigating the issue.
- LTA performance: some delays with the ingest of data every time the system is down the ingest that was going on is left behind. Users can also experience problems with downloading or errors when system is down.

News regarding Cycle2 observations







- Detailed Cycle 2 schedule available here:
- https://docs.google.com/spreadsheet/pub? key=0AtnmDczhIbEtdF9TT3RnX0xOSEZ1TWtOaWdILUVIVXc&output=html
- Changes can be applied on daily base: in case of questions/issues contact Science Support
- **Always cc sciencesupport@astron.nl and include the proposal code in the subject line** 8

CEP news:



> CEP2

In better shape. Removal of pulsar data is ongoing in cooperation with the pulsar working group.

> CEP3

- Beta-testers access the system this week.
- New policy regulating access to CEP3 and data handling available at:

<u>http://www.astron.nl/radio-observatory/observing-capabilities/depth-technical-information/cycle-1-observing-and-processin</u>

CEP1 users:

CEP1 will be phased out. Ultimatum was sent to BACK UP YOUR DATA FROM CEP1 (i.e. Ice, staging areas) ELSEWHERE OR GET IN TOUCH WITH SCIENCE SUPPORT AT sciencesupport@astron.nl IF YOU WOULD LIKE TO REQUEST TRANSFER OF DATA TO CEP3 AND HAVE NOT YET DONE SO.

Calendar LOFAR activities:



Next Stop day
: 07 October 2014

➤ Next LSM : 15 October 2014

➤ LOFAR Data Analysis School : 17-21 November, 2014

>Imaging Busy Week, to be held at ASTRON from 1-5 December.

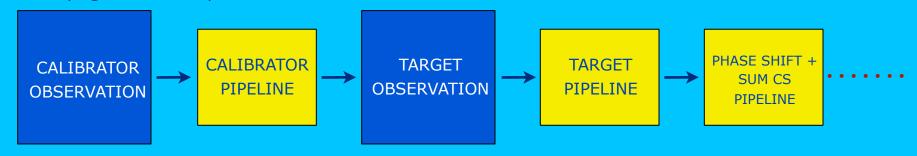
>LOFAR news email list:

http://www.astron.nl/radio-observatory/subscribe-lofar-news/subscribe-lofar-news

RADIO OBSERVATORY LONG BASELINE PIPELINE



- RO pipelines were modified in order to reproduce the results that the LB group requested. RO pipelines were modified in order to reproduce the results that the LB group requested.
- We can currently perform 8 out of 12 steps requested.
- Starting from calibration on the external calibrator up to the transfer of the solutions phase shifting and sum of the core station is performed (March 2014).
- The remaining 4 points are at the moment under development i.e. concatenation of the SBs, convertion to circular polarization and UVFITS (September/October 2014).
- Characterization performed to asses a P/O ∼ 4
- Tests are on going.
- Web pages will be updated as soon as we will have a final version





	-	LB_	Test1_20140925	Add	Details	0		Long Baseline test 2014-09-25 (LongBaseline):
+			LBtest1/3C295/1/CO	Add	Details		finished	[245963] LBtest1/3C295/1/CO (Calibration Observation)
	0	1	LBtest1/3C295/1/CPC	Restart	Details	99	finished	[245971] LBtest1/3C295/1/CPC (Cal Pipe Calibrator)
+			LBtest1/3C380/1/TO	Add	Details		finished	[245965] LBtest1/3C380/1/TO (Target Observation)
	0	1	LBtest1/3C380/1.0/TP	Restart	Details	B (finished	[245973] LBtest1/3C380/1.0/TP (Target Pipeline)
	0	1	LBtest1/3C380/1.0/LB	Restart	Details	9	finished	[245975] LBtest1/3C380/1.0/LBP (Phaseshift + adding CS stations)
+	0		LBtest1/3C295/2/CO	Add	Details		finished	[245967] LBtest1/3C295/2/CO (Calibration Observation)
	0	1	LBtest1/3C295/2/CPC	Restart	Details	99	finished	[245977] LBtest1/3C295/2/CPC (Cal Pipe Calibrator)
+	0		LBtest1/3C380/2/TO	Add	Details	(finished	[245969] LBtest1/3C380/2/TO (Target Observation)
	0	品	LBtest1/3C380/2.0/TP	Restart	Details	B	finished	[245979] LBtest1/3C380/2.0/TP (Target Pipeline)
	0	1	LBtest1/3C380/2.0/LB	Restart	Details	B (finished	[245985] LBtest1/3C380/2.0/LBP (Phaseshift + adding CS stations)