



# Please mute your microphone and turn off your webcam



## Programme:

- 1. Array status and Observatory update R. Fallows
- 2. Report from Imaging Busy Week 22 T. J. Dijkema
- 3. Progress report from the EoR Key Science Project G. de Bruyn
- 4. LOFAR Pulsar Census (HBA) A. Bilous



## **Array Status**

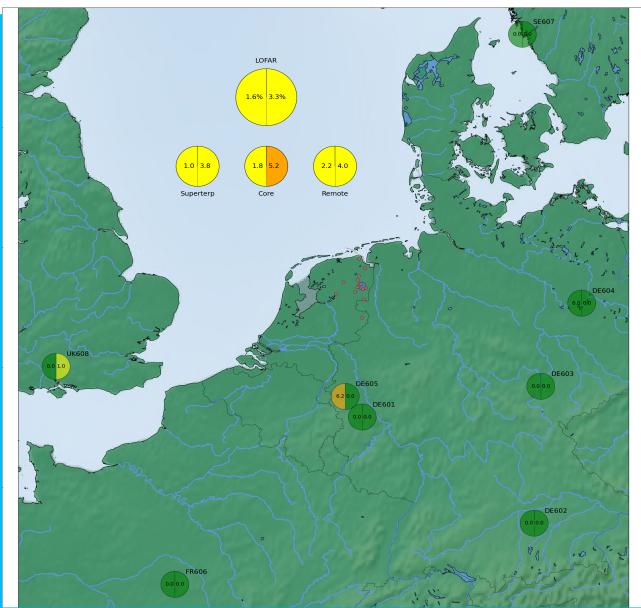




- CS002: broken 8v module repaired
- CS003: Broken uniboard, replaced.
- CS007: Firmware issue, resolved.
- RS310: Firmware issue, resolved by reset.
- CS501: High amplitude visibility issue: Fix implemented in RSPdriver.conf, but this can be overwritten. To be resolved.
- DE604: Aircon problem.
- Occasional connection problems to DE stations, usually due to announced network maintenance.
- Norderstedt almost ready to be commissioned.

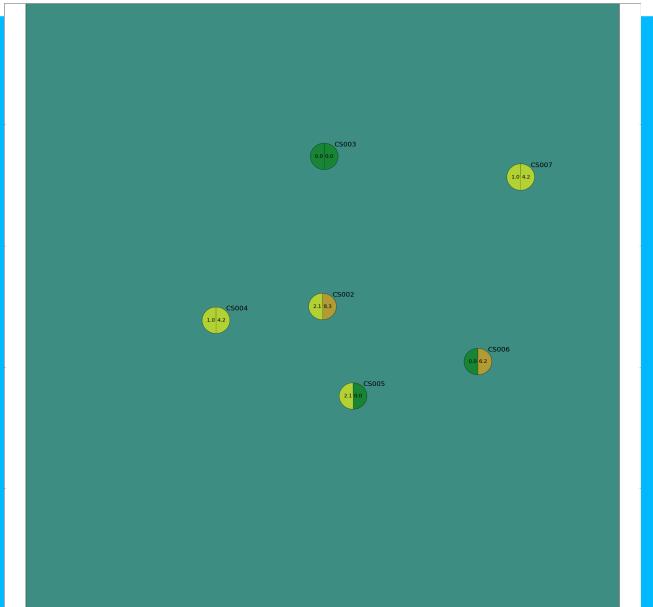
# Overview, including IS (LBA: 1.6%, HBA 3.3%)





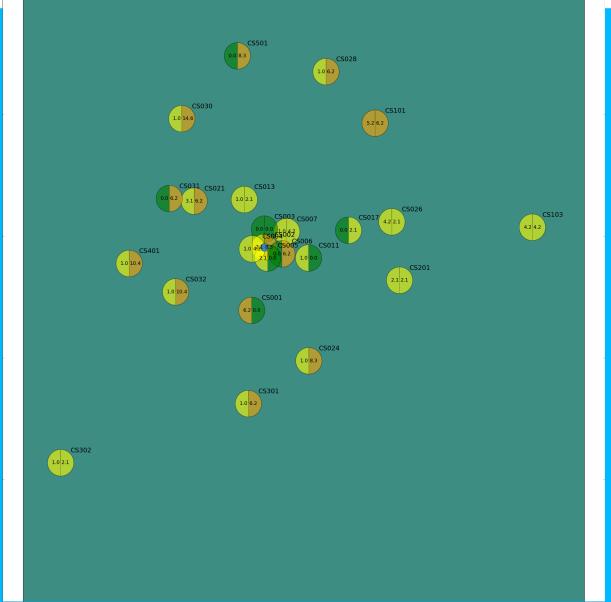
Superterp (LBA: 1.0%, HBA: 3.8%)





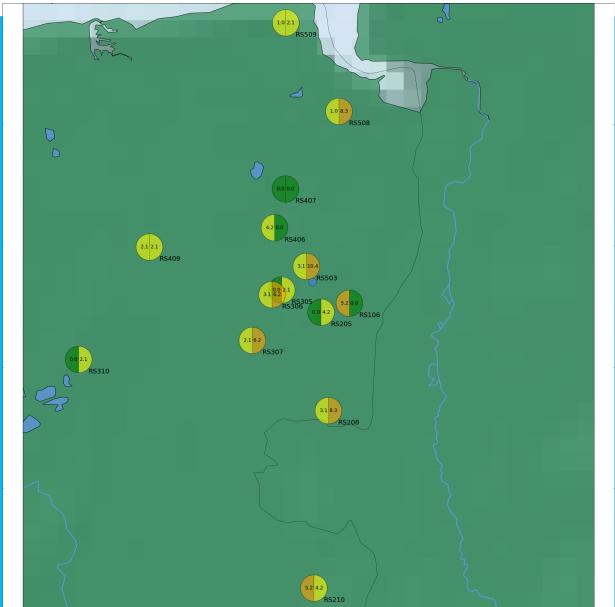
# Core Stations (LBA: 1.8%, HBA: 5.2%)





# Remote Stations (LBA: 2.2%, HBA:4.4%)





## News regarding the observing system: Observations



#### Over the last two weeks:

- System performance: Generally good
- Observations being performed with few problems
- Issue with recent Moon observation where HBA1 stations have significantly higher amplitudes than HBA0 stations. Under investigation.
- Occasional missing data for files written to locus080. Network connection re-seated.

## News regarding the observing system: Observations



- Weights for [partly] flagged stations recorded incorrectly by COBALT between 19<sup>th</sup> March and 31<sup>st</sup> October 2014.
- As a result, baselines involving these stations were not being flagged correctly during processing.
- This does not affect the recorded visibilities and methods of fixing the Measurement Sets have been detailed in an email to affected users.

# News regarding the observing system: Pipelines



- Pulsar pipelines generally taken over by the RO.
- Current setup means several pipelines, both interferometer and pulsar, are run in parallel.
- Long queue of pipelines to run, including many longduration pulsar pipelines.
- Basic characterisation of pulsar pipeline durations underway to attempt better estimation of durations required.

### **CEP** news



#### CEP2

- Disk space has been problematic due to large raw data sets from a variety of projects waiting for processing and/or transfer to the LTA.
- Analysis of **all** data on CEP2 underway to see what can be removed.

#### CEP3

- First users now processing data on CEP3.
- Policy regulating access to CEP3 and data handling available at:

http://www.astron.nl/radio-observatory/observing-capabilities/depth-

technical-information/cycle-1-observing-and-processing

#### CEP1:

Access to CEP1 now restricted and it will be switched off soon.

## Cycle 3 Observations



Week 50 UT 10 11 12 13 15 16 23 Approximate LST 8 10 11 17 12 13 14 15 16 18 19 20 22 Stress system loS/TBB runs; all LC3 034 -LC3 028 - EoR 3C196 SOFTWARE ROLL OUT Mon international stations switched to ILT mode Stress system run + IoS/TBB runs nun + Moon - 6hr loS/TBB LC3 034 -LC2 026 - RAs 9-11 LC3 034 - Moon - 6hr Tue Stress system run + IoS/TBB runs Moon - 6hr Wed LC3 028 - EoR NCP LC3 034 - Moon - 6hr Stress system run + IoS/TBB runs Stress Stress system system December Stress system run + 11 Thu LC3 028 - EoR NCP system run + system run + run + nun + IoS/TBB runs loS/TBB loS/TBB loS/TBB runs loS/TBB runs STATIONTEST: all international stations Stress system run + 12 Fπ LC3 028 - EoR 3C196 LC3 014 - LOTAAS LC2\_039 - J2129-0428 - 8.9hrs switched to local mode IoS/TBB runs at 9 UTC LC3 024 - G049.2-Sat Stress system run + IoS/TBB runs LC3 028 - EoR NCP 0.7 - 3hrs Stress system run + IoS/TBB runs LC3 014 - LOTAAS Sun LC3 028 - EoR NCP Stress system run + IoS/TBB runs Week 51 UT 11 15 17 21 22 23 2 3 5 6 8 9 10 12 13 14 16 18 19 20 11 13 14 15 17 19 23 Approximate LST 10 16 21 5 Stress system run + Mon LC3 028 - EoR 3C196 LC2\_025 - RAs 19-21 Lobos test IoS/TBB runs LC3 027 - 1807+698 LC3 028 - EoR NCP Tue Lobos test LC2 026 - RAs 9-11 LC3 0 27-Wed LC3 028 - EoR NCP Lobos test LC3 014 - LOTAAS 0716+ 714 December LC3 027 -Thu LC2\_025 - RAs 11-17 LC2 039 - J2215+5135 - 4.9hrs 0716+714 Fπ LC3 028 - EoR 3C196 LC3 014 - LOTAAS 19 LC3\_028 - EoR NCP Sat LC2 025 - RAs 6-9 21 Sun LC3 028 - EoR NCP C3 030 RA 16 C3 030 RAG 22 RAS 2,7

Detailed Cycle 3 schedule available here:

https://docs.google.com/spreadsheets/d/1jDWvZmpH0ycusJTwBsMU6SxQYK5efawtk0jHSxMbo9M/pubhtml

Changes can be applied on daily base: in case of questions/issues contact Science Support \*\*Always email sciencesupport@astron.nl and include the proposal code in the subject line\*\*

## CALENDAR of requested busy weeks and other LOFAR activities



- Next Stop Day: Tuesday 6<sup>th</sup> January
- Next LSM: 7<sup>th</sup> January 2015
- LOFAR Users Meeting: 1<sup>st</sup> June 2015, Assen
- LOFAR Science Meeting: 2-3rd June 2015, Assen
- LOFAR news email list:

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