

# Programme:

- 1. Array status & Observatory update L. Cerrigone
- 2. Software development update A. Schoenmakers
- 3. Report from the Long Baseline Busy Week A. Deller

## **Array Status**





Tests going on to have CS013 back in operations

Station maintenance is going on and can be checked in the telescope schedule

#### Overview, including IS

LBA: 0.8%; HBA: 3.1%

see https://proxy.lofar.eu/array\_status/



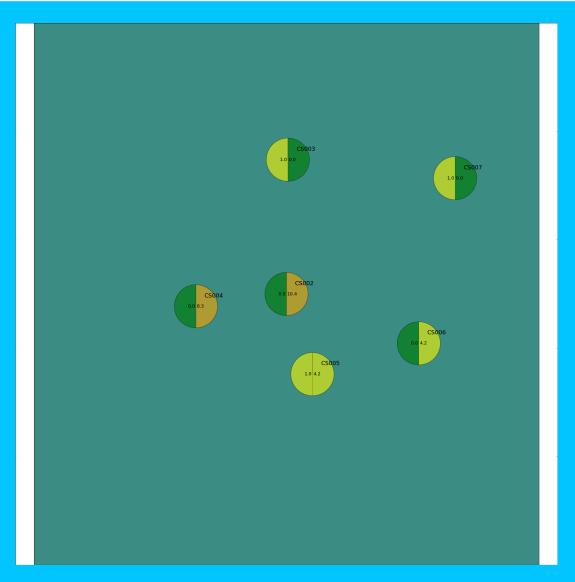


- Color coding for non-operational elements at the various stations
  - All operational
  - < 5% not operational</p>
  - < 15% not operationa</p>
  - > 15% not operational

# **Superterp**

LBA: 0.5%; HBA: 4.5%



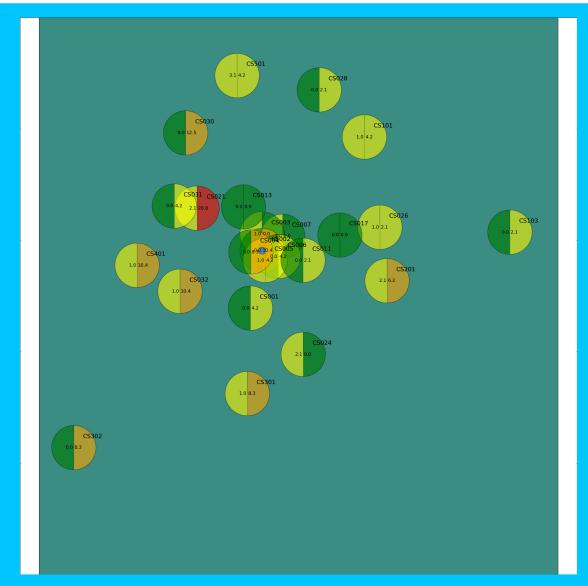


- Color coding for non-operational elements at the various stations
  - All operational
  - < 5% not operational</li>
  - < 15% not operational
  - > 15% not operational

#### **Core Stations**

LBA: 0.8%; HBA: 5.4%





- Color coding for non-operational elements at the various stations
  - All operational
  - < 5% not operational</p>
  - < 15% not operational</p>
  - > 15% not operational

#### **Remote Stations**

LBA: 1.0%; HBA: 1.9%





Color coding for non-operational elements at the various stations

- All operational
- < 5% not operational</p>
- < 15% not operational</p>
- > 15% not operational



- > Station calibration: mode 7 tables were updated for international stations (except UK608 and DE605). New mode 3 tables for the Dutch stations and modes 5 and 7 for RS407 are ready to be installed as soon as the schedule allows so. Mode 5 data will be collected this week for all stations.
- Encouraging results have been obtained by M. Brentjens and his Summer student, who performed a pilot study of station calibration with holographic data. A talk will be given about this project at the next LSM by M. Brentjens.
- ➤ Locus41 on CEP2 crashed on 26<sup>th</sup> Aug. It was kept out of the production until it was stable again.
- > Shutting down of stations because of heating was experienced over the last weekend.



CEP3 info and user schedule available at

http://www.lofar.org/operations/doku.php?id=cep3:star

Policy about access to CEP3 available at

http://www.astron.nl/radio-observatory/observing-capabilities/depth-technical-information/cep-and-lta-computing-facilitie

Users are expected to make full use of the resources assigned to them within the period agreed upon. The granting of extensions is not the default and is expected to become less likely, due to the increasing demand for CEP3 time.



During the period 29 June – 24 August the Radio Observatory pipelines wrote LOFAR Measurement Sets (MSs) in a manner inconsistent with the MS definition in CASACORE 2.0.

Also, all LOFAR MSs have been generated with two tables (STATE, PROCESSOR) missing. Since its 4.1 release, CASA checks for the content of these tables, which causes a failure.

Users working with CASA 4.1 or higher on MSs generated before 2 Sept 2015 need to fix their data sets.

An email was circulated to inform PIs about these issues. A script to fix the problems mentioned above is available at

http://www.astron.nl/radio-observatory/observing-capabilities/depth-technical-information/system-notes/lofar-measurement-



Cycle 5 proposal deadline is approaching (9 September at 12:00UT – noon!)

Northstar manual at

http://www.astron.nl/sites/astron.nl/files/cms/PDF/LOFARPSP.pdf

A list of known issues when submitting a proposal in Northstar has been added in the new version of the manual. We recommend PIs to read the manual before creating a new proposal.

#### New rules

Targets must be listed per priority ranking

State if and how your processing can be split between ASTRON and another institute

#### Known issues

Long lists of comma-separated subbands generate an internal error
Lists of several hundreds of targets generate an internal error
Estimates of data size and processing time may be severely off (cross check with the tools on the LOFAR web site)



Cycle 5 proposal deadline is approaching (9 September at 12:00UT – noon!)

Three new stations may become available in Poland during cycle 5. If you need these new stations for your scientific goals, **say it explicitly** in your proposal.

Although the 160 MHz clock may become available during cycle 5, this is **not offered** at the time of the deadline. If it becomes available, commissioning proposals will be taken in consideration.

The self-calibration pipeline cannot be offered at this point in production. It can be run in stand-alone mode on CEP3.



Cycle 5 proposal deadline is approaching (9 September at 12:00UT – noon!)

The information about commensal observations (simultaneous Beam Formed and Imaging) has been updated and can be found at

http://www.astron.nl/radio-observatory/observing-capabilities/depth-technical-information/major-observing-modes/commensal

The P/O estimates of the beam formed data have also been updated. The new values are at

http://www.astron.nl/radio-observatory/observing-capabilities/depth-technical-information/major-observing-modes/beam-form

# **News regarding Cycle observations CYCLE 4**





- Detailed Cycle 4 schedule available here:
- https://docs.google.com/spreadsheets/d/14JsjFkFxSrK1vzYzaFhZH3jTeFbFHt5GyuF3NyI3Qdw/edit#gid=0
- Changes can be applied on a daily basis! Contact Science Support in case of questions/issues
  - \*\*Always cc `sciencesupport@astron.nl' and include the proposal code in the subject line\*\*

#### **CALENDAR LOFAR activities**



Next LSM : 16 Sept – volunteers welcome!!

Software roll out : 7 Sept

Cycle 5 proposal deadline : 9 Sept at 12:00UT

LOFAR Surveys meeting in Leiden : 14-16 Sept

Note: to subscribe to the lofar-news mailing list:

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