ASTRON

Netherlands Institute for Radio Astronomy

Programme:

1) Array status and Radio Observatory Update - E. Orru’
2)) Faraday tomography of the local ISM with LOFAR - C. van Eck
3) Search and modeling of remnant radio galaxies in the LOFAR Lockman Hole field - M. Brienza
AOB

Array Status

- 50 operational stations

  24 CSs

  14 RSs 12 Is

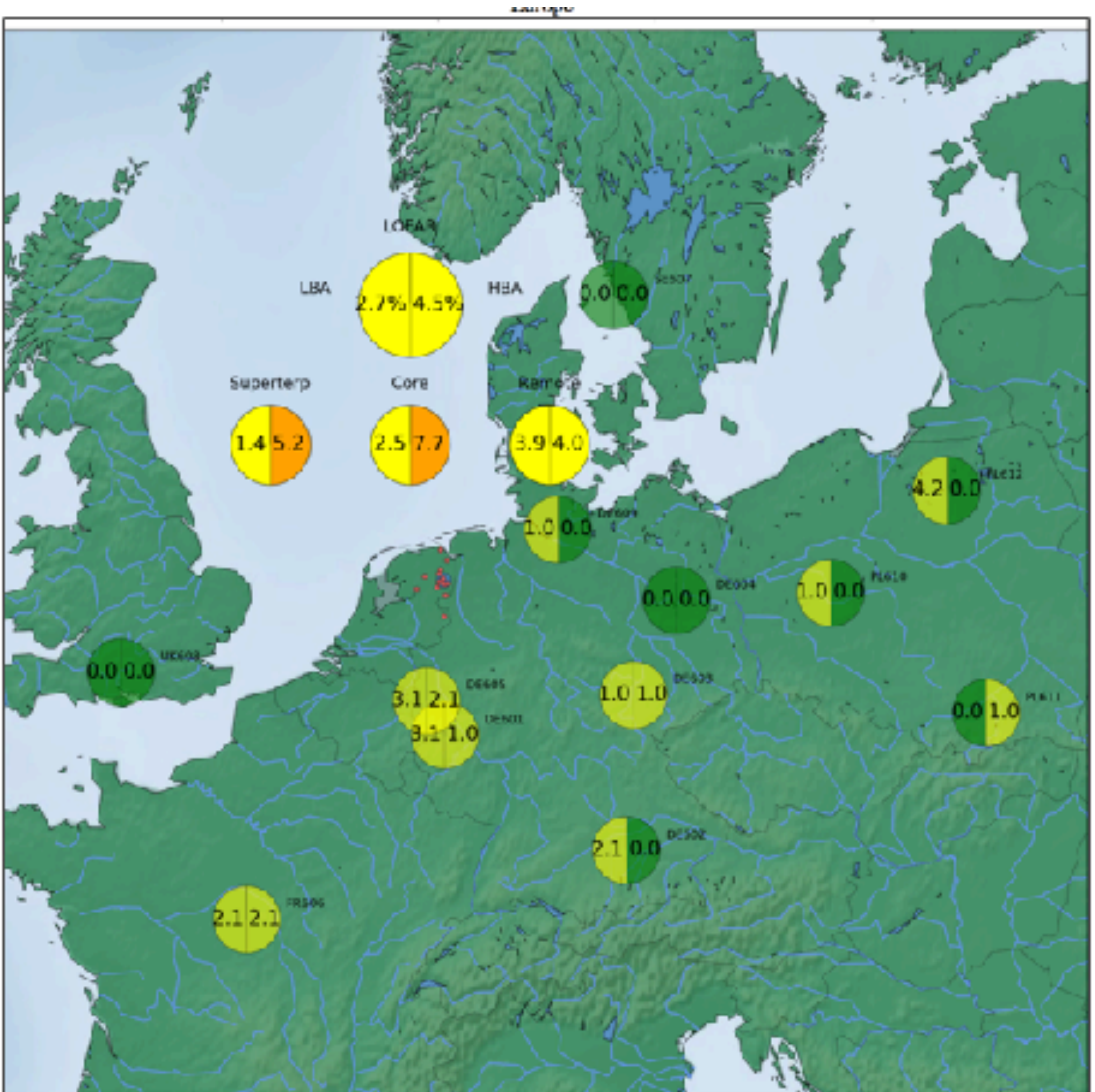
No big issues were reported beside

- some sporadic connection problem on IS
- some oscillating elements being disabled.

Overview, including IS

LBA: 2.7%; HBA: 4.5%

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



Color coding of non-operational components per stations:

- all operational
- <5% non-operational
- <15% non-operational
- >15% non-operational

News regarding the observing system

- COBALT nodes spontaneous reboot. Extra information were added to the COBALT logs in order to find the cause of the reboot. The cause has been identified as a bug in the kernel of the OS. It will be fixed soon in collaboration with CIT
- Lustre filesystem: data loss is still affecting many observation, (after months of investigations) it seems to be caused by processes with highly demanding in I/O. Possibly some checks enabled in the Lustre filesystem contribute to increase this load. A lowering of this checks has been enabled during the stopday. We will report about our finding at the next LSM.
- Qupid messaging system was down last week delaying the internal communications within the system, such as feedback, ingest etc.
- LTA site Poznan experienced a massive failure in the past weeks, operations to safeguard the integrity of the data took place in close collaborations betweens team for Poznan, Astron and Julich. The situation is now back to normal since last week.
- Reminder: The number of files staged from the LTA on a single instance need to be kept below 5000!

News regarding the observing system

- CEP4 logs recoded swapping last Sunday. It was investigated and resulted in a understood feature that is not alarming on our System Administrators.
- The STOP DAY took please yesterday..
- A first attempt of running pre-factor (calibrator) as standalone on a single node of CEP4 was done and it was successful. We need to fix some bugs before proceeding and extending this through multiple nodes and on the production chain. The way is still long but we started.
- STATION CALIBRATION: LBA SPARSE ODD is now installed (some validation test should now start), LBA SPARSE EVEN is being processed at the moment. LBA OUTER goth for the DUTCH and the IS stations will be installed this week.

Cycle 8 proposal call

35 proposals were submitted applying for Cycle 8 telescope time:

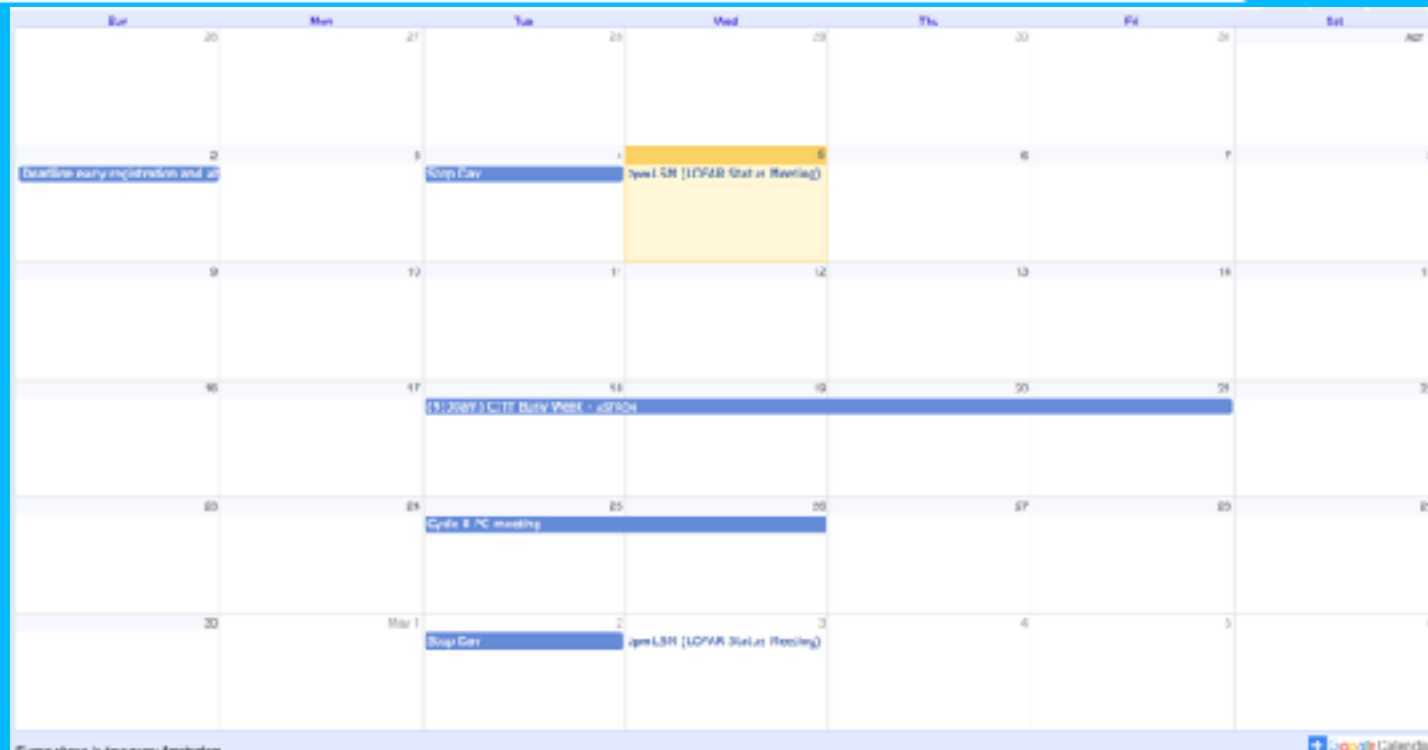
2327 observing hours (offered 830 hours)

3043 processing hours (offered 2420 hours)

oversubscription factor 2.8 for observing and 1.3 for processing.

Calendar LOFAR activitiesand general info:

http://www.astron.nl/radio-observatory/calendar-lofar-activities/calendar-lofar-activities



- CITT busy days:18-19-20-21 April
- PC meeting: 25-26 April.
- Conference “The Broad Impact of Low Frequency Observing” June 19-23. Early registration and abstract submission deadline was 2nd of April. Registration will remain opened until 15 May.