

## Programme:

- 1) Array status and Radio Observatory update - E. Orru'
- 2) CITT update - T. J. Dijkema
- 3) Update from the Cosmic Rays working group - J. Rachen
- 4) The LOFAR view on NGC 5033 - K. Sendlinger

# Array Status

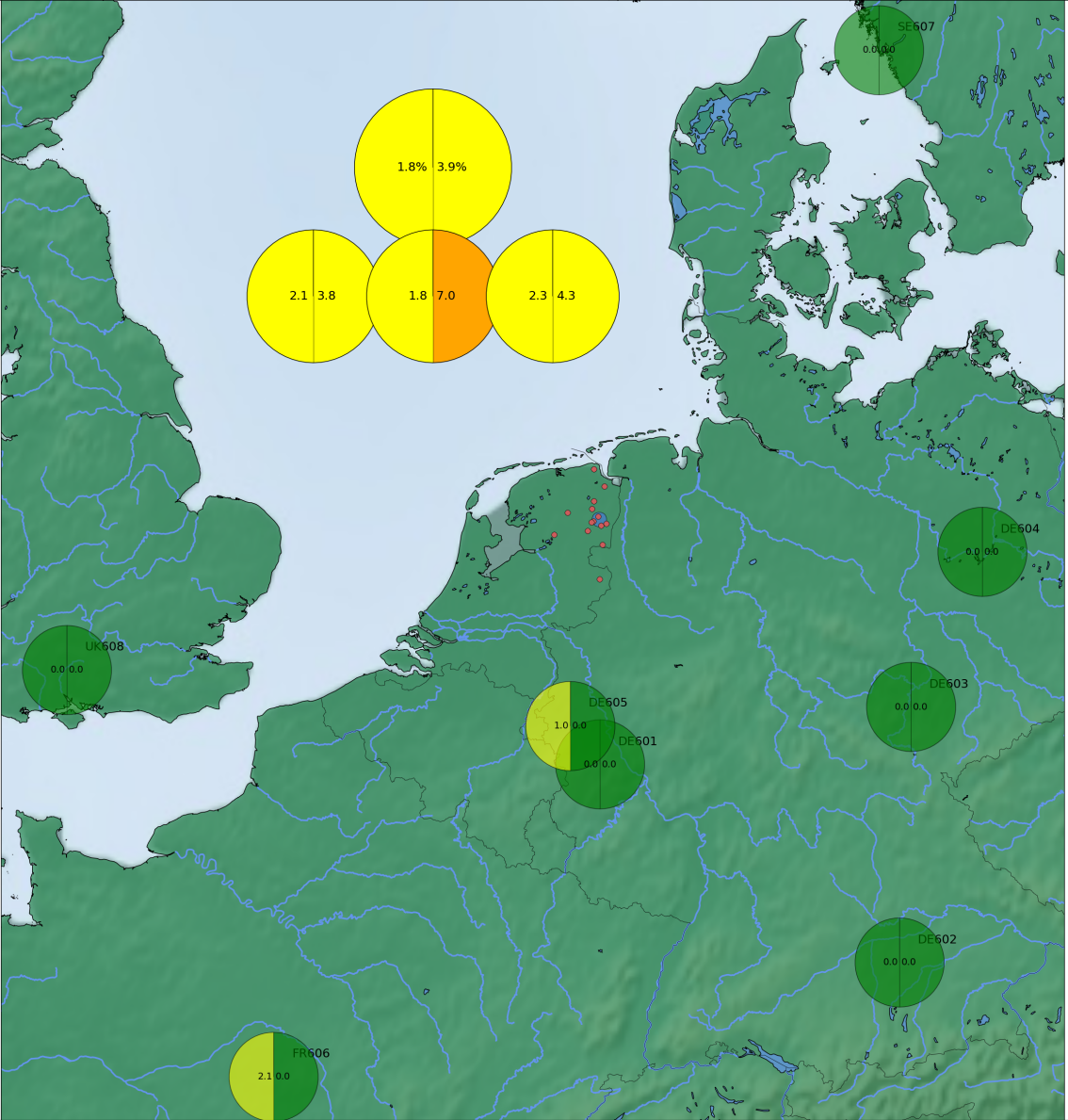


- Test new LCU in CS013: problems with clocks solved, unavailable for observation so far.
- Station maintenance and failures:
  - RS208 Lightning damage in street cabinet and LOFARCabinet.
  - RS210 is switched off total. (EC 48V problem) (lightning damage)
  - RS310 and RS407 clock problem (lightning damage)
  - RS503 Maintenance during day time,
  - RS509 TBB board broken ongoing.

# Overview, including IS

LBA: 1.8%; HBA: 3.9%

see [https://proxy.lofar.eu/array\\_status/](https://proxy.lofar.eu/array_status/)

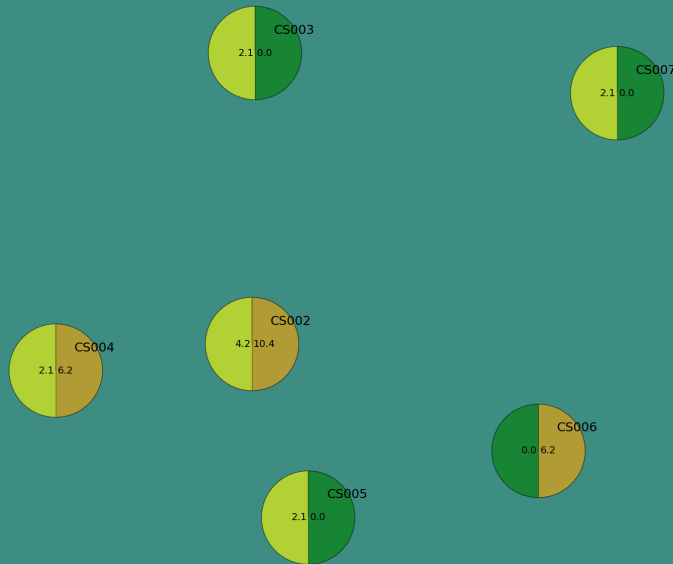


Color coding of non-operational components per stations:

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

# Superterp

LBA: 2.1%; HBA: 3.8%

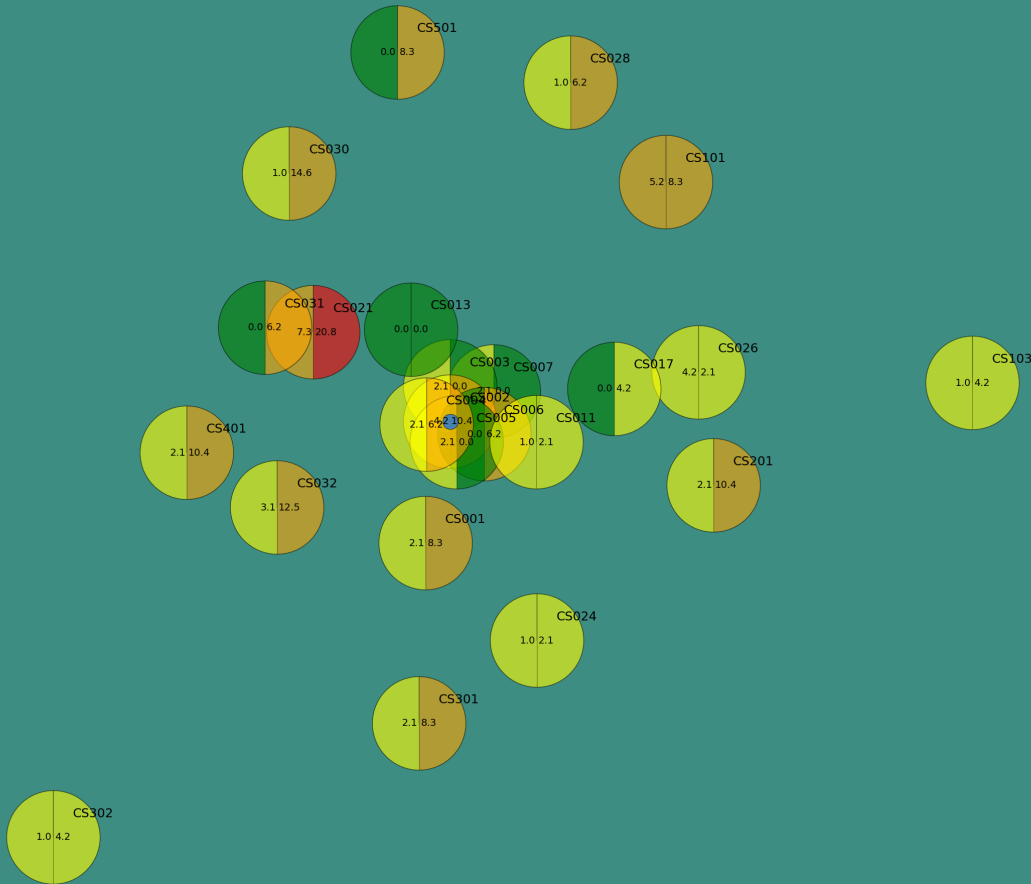


Color coding of non-operational components per stations:

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

# Core Stations

LBA: 1.8%; HBA: 7.0%

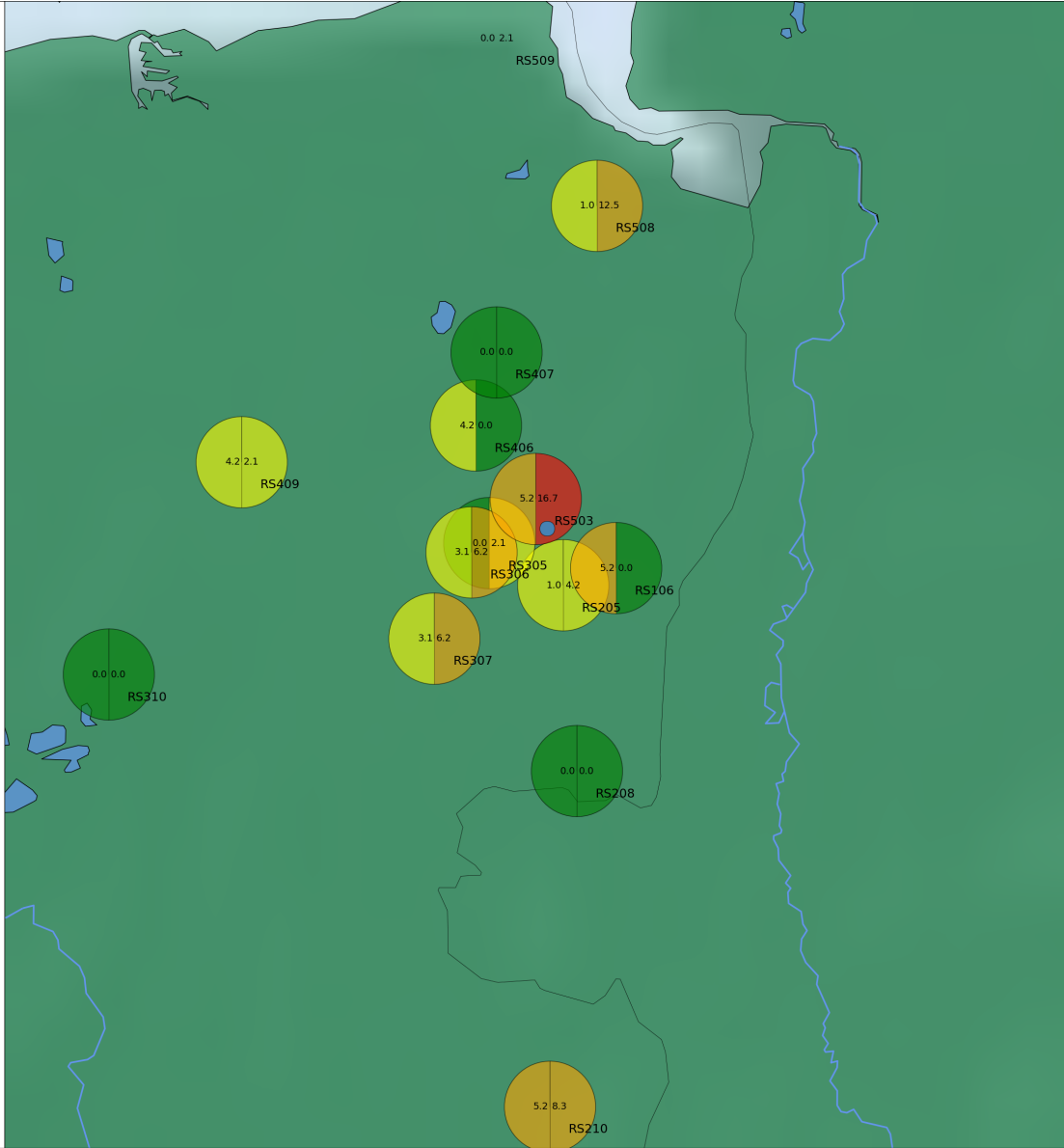


Color coding of non-operational components per stations:

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

# Remote Stations

LBA: 2.3%; HBA: 4.3%



Color coding of non-operational components per stations:

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

➤ Station calibration status:

Overview available at:

<http://www.astron.nl/radio-observatory/astronomers/current-status>

- Calibration tables mode1: updated for all available CS & RS (i.e. except CS013, RS305)
- Calibration tables mode3: reduction still ongoing
- Calibration tables mode7 on international stations: observations performed

- Despite changes to the cabinet, still a problem with overheating stations on extremely warm days.
- Software rollout 29-06-2014:
  - Casacore 2.0.1 some software (e.g. msoverview) might not work. use Lofar\_old LOFAR-Release-2\_9\_0
  - Problems experienced with ingest. Solved now.
- Stop day 7/7/2015: Node COBALT 8 broken. Trying to replace it with COBALT 9
- Bugs in LOFAR software:
  - Pybdsm: astropy WCS library in astropy version 1.0 creates NaN in gaussians. BBS writes empty parmdb
  - Error in BBS parset of RO Imaging pipeline (phase only calibration). Interested Pis will be notify this week.
  - NDPPP bug in baseline selection when using [].



# News regarding Cycle4 observations

Week 28	UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Approximate LST		20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
July	6 Mon	STATIONTEST			TBB + test runs				LC4_016 - Sun - 2hrs LBA		LC4_004 - Pulsar Timing HBA; all international stations switched to ILT mode at 9 UT										DDT4_03* - V404Cyg - 2hrs HBA		TBB		
	7 Tue	TBB				TBB + test runs		STOP DAY										TBB + test runs		LC4_010 - G42 4.25hrs LBA *					
	8 Wed	LC4_010 - G42 4.25hrs LBA *		TBB + test runs		DDT4_00* - V404Cyg - 2hrs HBA		LC4_030 - LOTAAS - 3hrs HBA		System tests		LC4_034 - P150+40 - 8hrs HBA						TBB + test runs		LC4_007 - 4C48 - 9hrs LBA ALL-INT					
	9 Thu	LC4_007 - 4C48 - 9hrs LBA ALL-INT		TBB + test runs		System tests, HOLOG Tests						LC4_018 - G4111 - 2 hrs LBA - CEP3		TBB + test runs		LC4_034 - P248+40 - 8hrs HBA									
	10 Fri	LC4_034 - P248+40 - 8hrs HBA		DDT4_00* - V404Cyg - 2hrs HBA		STATIONTEST		System tests; all international stations switched to local mode at 9 UT						LC4_030 - LOTAAS - 3hrs HBA		TBB + test runs		LC4_010 - G38 4.25hrs LBA *							
	11 Sat	LC4_010 - G38 4.25hrs LBA *		TBB		TBB + test runs						LC4_018 - G4111 - 2 hrs LBA - CEP3		TBB + test runs		LC4_010 - G38 4.25hrs LBA * (back up if needed)									
	12 Sun	LC4_010 - G38 4.25hrs LBA * (back up, if needed)		TBB + test runs				LC4_030 - LOTAAS - 3hrs HBA		TBB + test runs						LC4_018 - G4111 - 2 hrs LBA - CEP3		TBB + test runs; all international stations switched to ILT mode at 18 UT		DDT4_003* - V404Cyg - 6hrs HBA repeat					
Week 29	UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Approximate LST		20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
July	13 Mon	DDT4_003* - V404Cyg - 6hrs HBA repeat		TBB + test runs		LC4_035 - 4C17.31 - 3hrs HBA - DO NOT MOVE!		LC4_034 - P198+40 - 8hrs HBA						LC4_007 - 4C48 - 9hrs LBA ALL-INT											
	14 Tue	LC4_036 - 3C48/3C147 interleaved 12x0.5hrs each HBA - CEP3										LC4_018 - G4111 - 2 hrs LBA - CEP3		LC4_026 - 1823+568 - 4hrs HBA - CEP3											
	15 Wed	DDT4_00* - V404Cyg - 2hrs HBA		LC4_027 - 1026+2542 - 4h						LC4_026 - 1226+216 - 4hrs HBA - CEP3		LC4_026 - 1803+784 - 4hrs HBA - CEP3													
	16 Thu	DDT4_00* - V404Cyg - 2hrs HBA		LC4_030 - LOTAAS - 3hrs HBA		LC4_034 - P191+40 - 8hrs HBA						LC4_010 - G42 4.25hrs LBA *													
	17 Fri	LC4_010 - G42 4.25hrs LBA *		Commissioning2015 - B0329+54 - 8hrs HBA						STATIONTEST				LC4_010 - G42 4.25hrs LBA *											
	18 Sat	LC4_010 - G42 4.25hrs LBA *		LC4_035 - 3C226 - 3hrs HBA - DO NOT MOVE!						LC4_008 - ELAIS - 8hrs HBA - repeat															
	19 Sun	LC4_008 - ELAIS - 8hrs HBA - repeat		LC4_030 - LOTAAS - 3hrs HBA		LC4_034 - G12CD(1) - 4hrs HBA		LC4_010 - G46 4.25hrs LBA *																	

- Cycle 4 observing programme: ongoing. Detailed Cycle 4 schedule available here:
- <https://docs.google.com/spreadsheets/d/14JsJFkFxFxSrK1vzYzaFhZH3jTeFbFHT5GyuF3NyI3Qdw/pubhtml>
- 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\*\*** 9

## ➤ CEP2

- Disk space situation always concerning (especially after weekends).

## ➤ CEP3

- CEP3 is meant for commissioning and advanced processing, thus it offers users a large amount of computing resources but for a limited amount of time.

- CEP3 info and users schedule available at:

<http://www.lofar.org/operations/doku.php?id=cep3:start>

New 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-processin>

- Many requests of extensions to access CEP3: monitoring of node usage during allocated time is ongoing. The evaluation of future requests will be based on such statistics.

# Calendar LOFAR activities:

- Next LSM : 22 July (contributions welcome)
- Cycle 5 proposal call : Beginning of July
- Cycle 5 proposal deadline : Wednesday, 9 September, 12 UT
- Long Baseline busy week : 24-28 August
  
- All accepted LOFAR DDT projects list:  
<http://www.astron.nl/radio-observatory/cycles/accepted-ddt-projects/accepted-ddt-projects>
- LSM presentations list & users suggestions:  
[http://www.lofar.org/operations/doku.php?id=public:lsm\\_new:start](http://www.lofar.org/operations/doku.php?id=public:lsm_new:start)
  
- LOFAR news email list:  
<http://www.astron.nl/radio-observatory/subscribe-lofar-news/subscribe-lofar-news>