

Programme:

- 1. Array status & Observatory update – M. Iacobelli*
- 2. LOFAR software development update - H. Holties*
- 3. Lessons learned from LOFAR LBA: clock/TEC separation - I. van Bemmel*
- 4. AOB*

Array Status

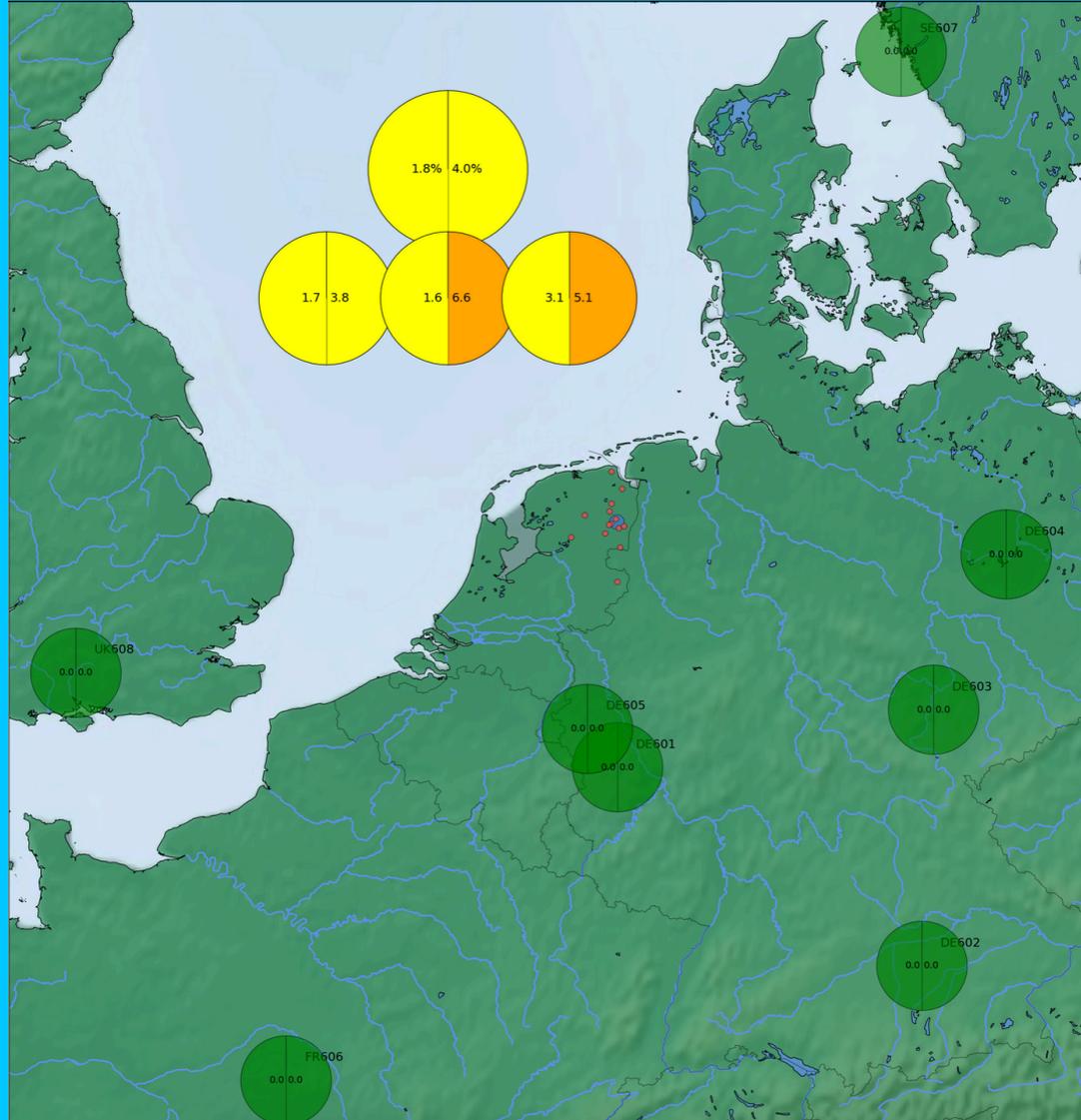


- Test new LCU in CS013: problems with clocks solved, unavailable for observations until 29 June
- Station maintenance:
 - RS301 fixed,
 - RS305 (lightning damage) ongoing,
 - CS501 planned,
 - RS509 TBB board broken ongoing.

Overview, including IS

LBA: 1.8%; HBA: 4.0%

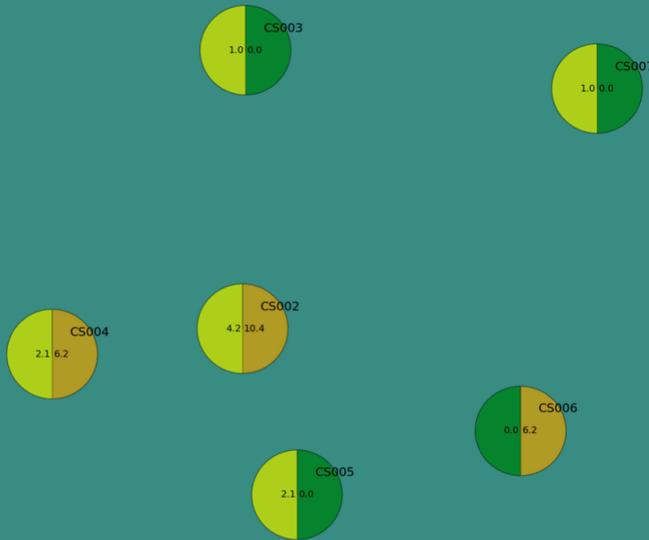
see https://proxy.lofar.eu/array_status/



- Color coding of non-operational components per stations:
 - all operational
 - <5% non-operational
 - <15% non-operational
 - >15% non-operational

Superterp

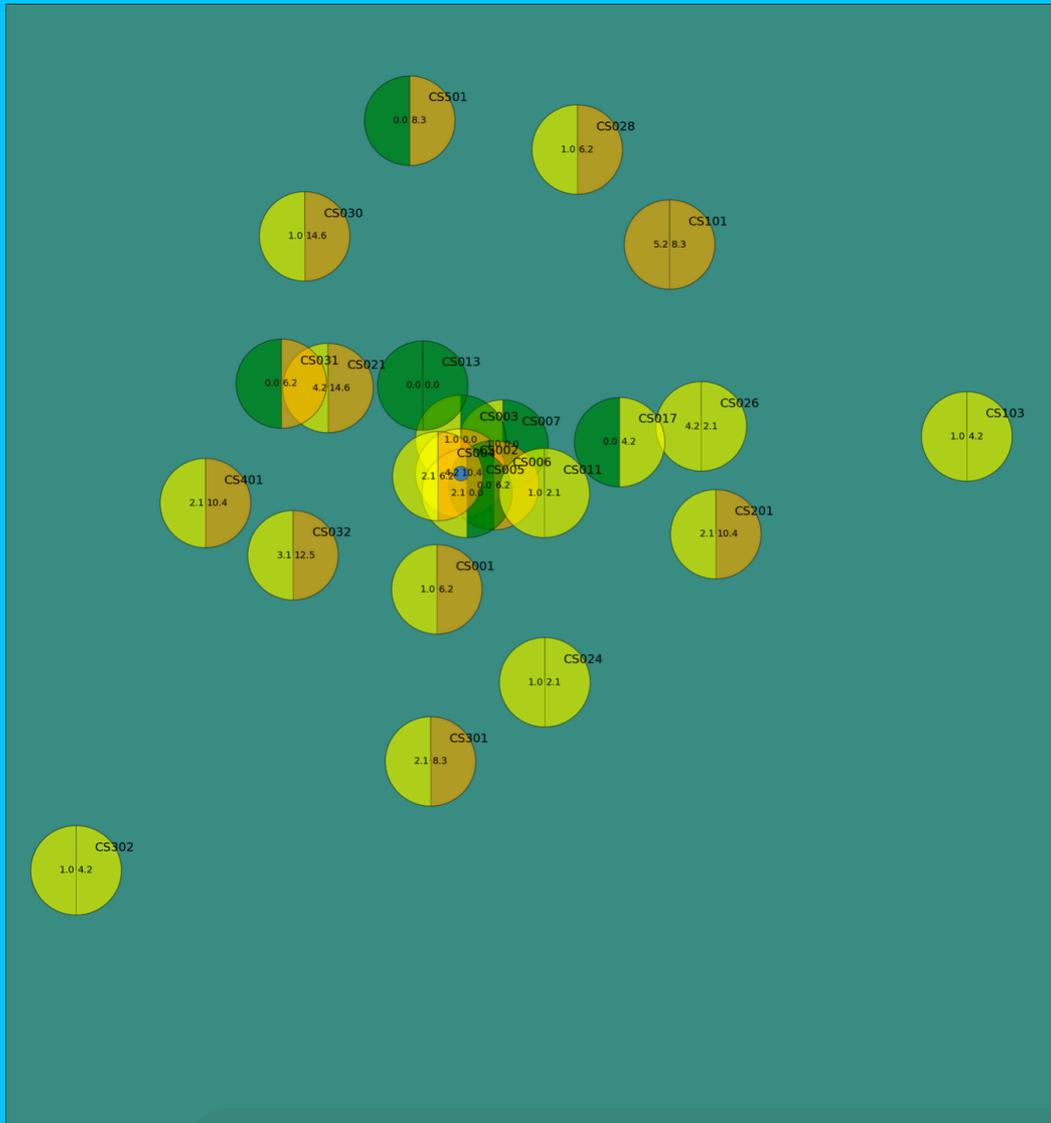
LBA: 1.7%; HBA: 3.8%



- Color coding of non-operational components per stations:
- all operational
 - <5% non-operational
 - <15% non-operational
 - >15% non-operational

Core Stations

LBA: 1.6%; HBA: 6.6%

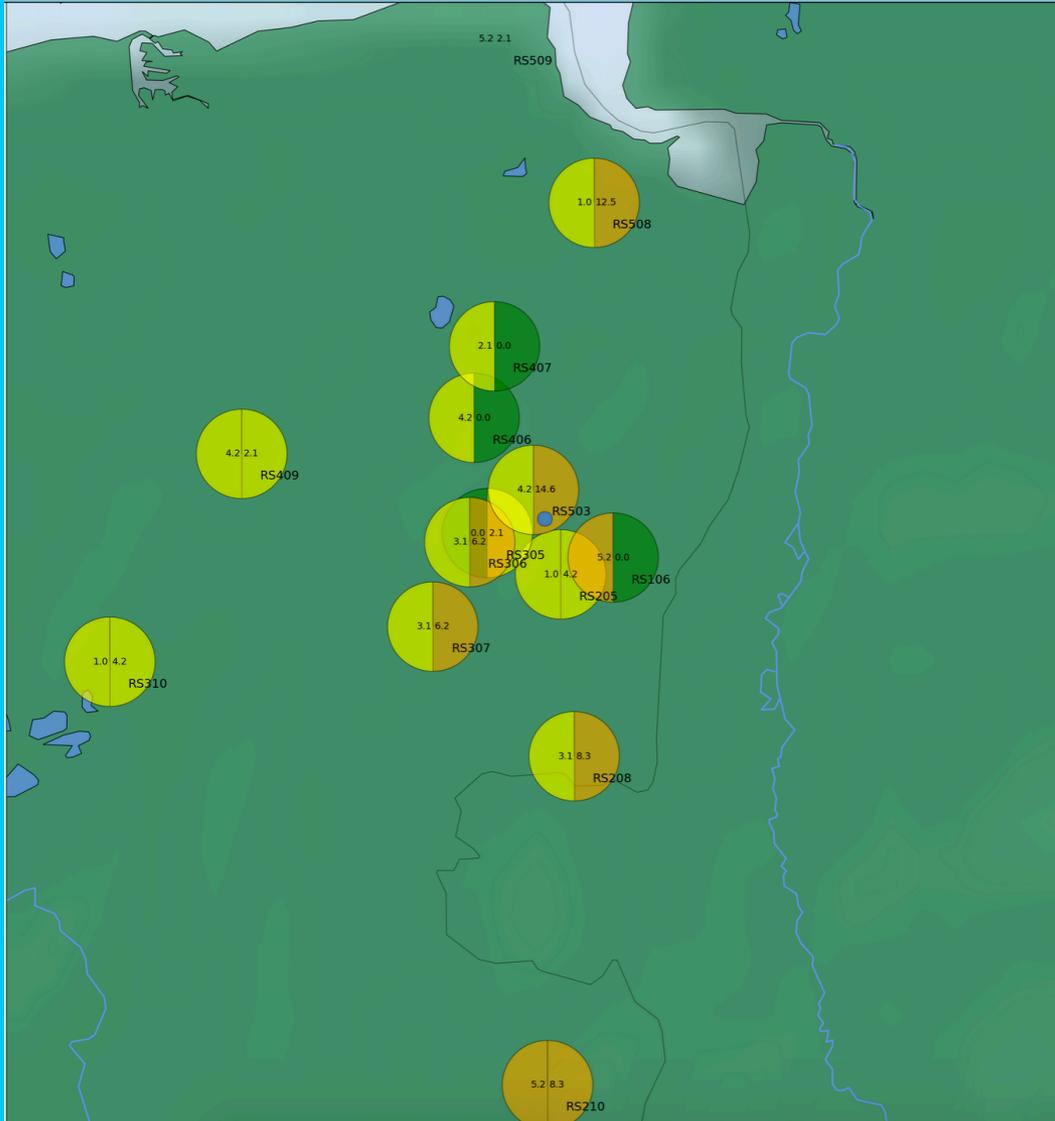


➤ Color coding of non-operational components per stations:

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

Remote Stations

LBA: 3.1%; HBA: 5.1%



- 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/astromers/current-status>

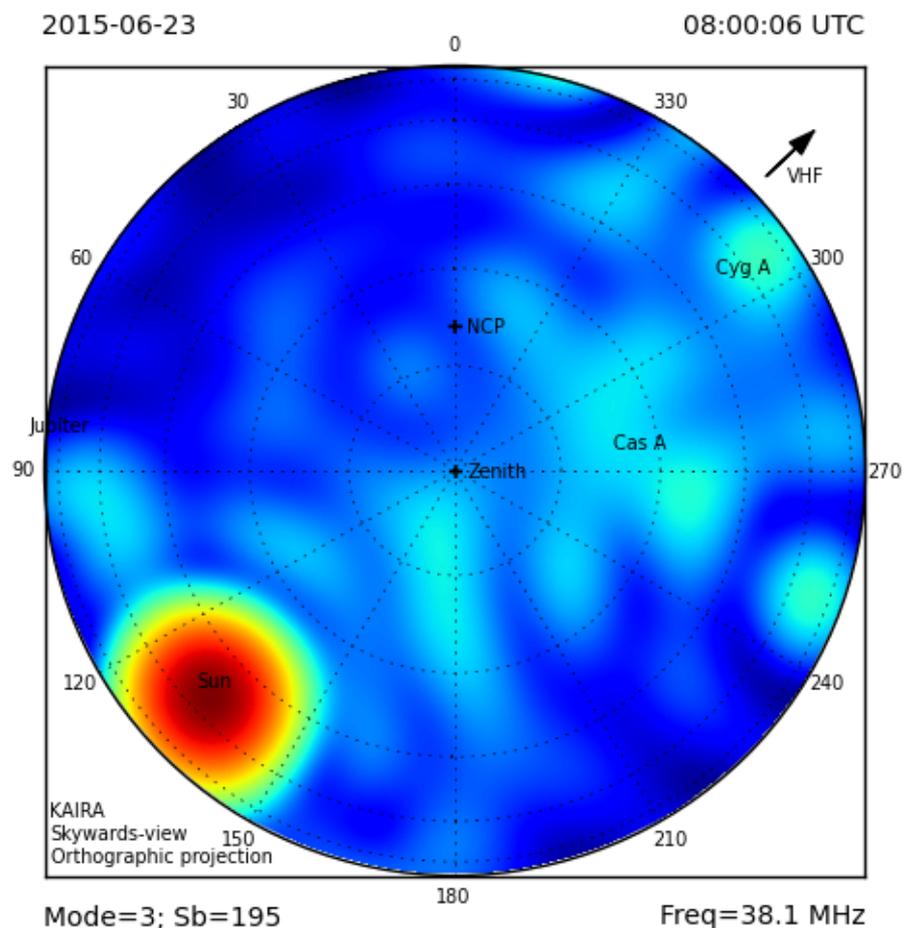
- Calibration tables mode1: updated for all available CS & RS (i.e. except CS013, RS305)
- Calibration tables mode3: reduction still ongoing
- Calibration tables mode7 on international stations: observations performed

News regarding the observing system

- Despite changes to the cabinet, still a problem with overheating stations on extremely warm days.
- Ongoing solar activity affecting data quality: elevated ionospheric disturbances in both day/night-time observations during the past days.
- Fixinfo script fixed! New release available at:

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

Image courtesy by R.Fallows & KAIRA project



News regarding Cycle4 observations



Week 26		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	Sup Sci on Duty	Softw. Eng. on Duty	eVLBI / unavailable stations
Approximate LST			19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
June	22	Mon	LC4_008 - ELAIS - 8hrs HBA				TBB + test runs	System tests	BF + IM tests; all international stations switched to ILT mode at 9 UT				LC4_016 - Sun - 2hrs LBA	BF + IM tests		LC4_034 - P228+40 - 8hrs HBA							AS	NV					
	23	Tue	TBB + test runs	LC4_030 - LOTAAS - 1hrs HBA	TBB + test runs	LC4_030 Follow-up	TBB + test runs	System tests	Roll-out tests				LC4_016 - Sun - 2hrs LBA	Roll-out tests	System tests	TBB + test runs				DDT4_002* - V404Cyg - 6hrs HBA	RAF	PD	eVLBI 23-06 09:00 - 24-06 13:00						
	24	Wed	DDT4_002* - V404Cyg - 6hrs HBA				TBB + test runs	LC4_006 - Sun - 4hrs HBA				LC4_016 - Sun - 2hrs LBA	LC4_006 - Sun - 1hrs HBA	LC4_030 - LOTAAS - 3hrs HBA		TBB + test runs	LC4_008 - ELAIS - 8hrs HBA		Manu	JDM	eVLBI 23-06 09:00 - 24-06 13:00								
	25	Thu	LC4_008 - ELAIS - 8hrs HBA			TBB + test runs	System tests		TBB test	LC4_003 - B0531 - 20mins HBA	LC4_016 - Sun - 2hrs LBA	System tests			TBB + test runs							StV	JRP						
	26	Fri	DDT4_002* - V404Cyg - 3hrs HBA		TBB + test runs	System tests	LC4_006 - Sun - 6hrs HBA; all international stations switched to local mode at 9 UT					System tests	TBB + test runs	LC4_008 - ELAIS - 8hrs HBA				MI	AS										
	27	Sat	LC4_008 - ELAIS - 8hrs HBA		TBB + test runs	LC4_030 - LOTAAS - 1hrs HBA	TBB + test runs	LC4_006 - Sun - 6hrs HBA					TBB + test runs	LC4_030 - LOTAAS - 3hrs HBA		TBB + test runs													
	28	Sun	DDT4_002* - V404Cyg - 3hrs HBA		TBB + test runs	station calibration LBA - Mode 3 on NL stations																							
Week 27		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	Sup Sci on Duty	Softw. Eng. on Duty	eVLBI / unavailable stations
Approximate LST			19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
	29	Mon	station calibration LBA				TBB + test runs	SOFTWARE ROLL OUT					LC4_018 - G1411 - 3 hrs LBA - CEP3		LC4_008 - ELAIS - 7hrs HBA				Manu + RAF	WK									

- 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 : 8 July (contributions welcome)
- Cycle 5 proposal call : Beginning of July
- Cycle 5 proposal deadline : Wednesday, 9 September, 12 UT

- 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

- LOFAR news email list:
<http://www.astron.nl/radio-observatory/subscribe-lofar-news/subscribe-lofar-news>