

Programme:

1. *Array status & Observatory update – E. Orru'*
2. The LOFAR Network Reconfiguration - J. D. Mol
3. CITT update - T. J. Dijkema
4. Supernova remnants and fermi bubbles: LOFAR images of M82 and NGC3079 - E. Varenius

Array Status

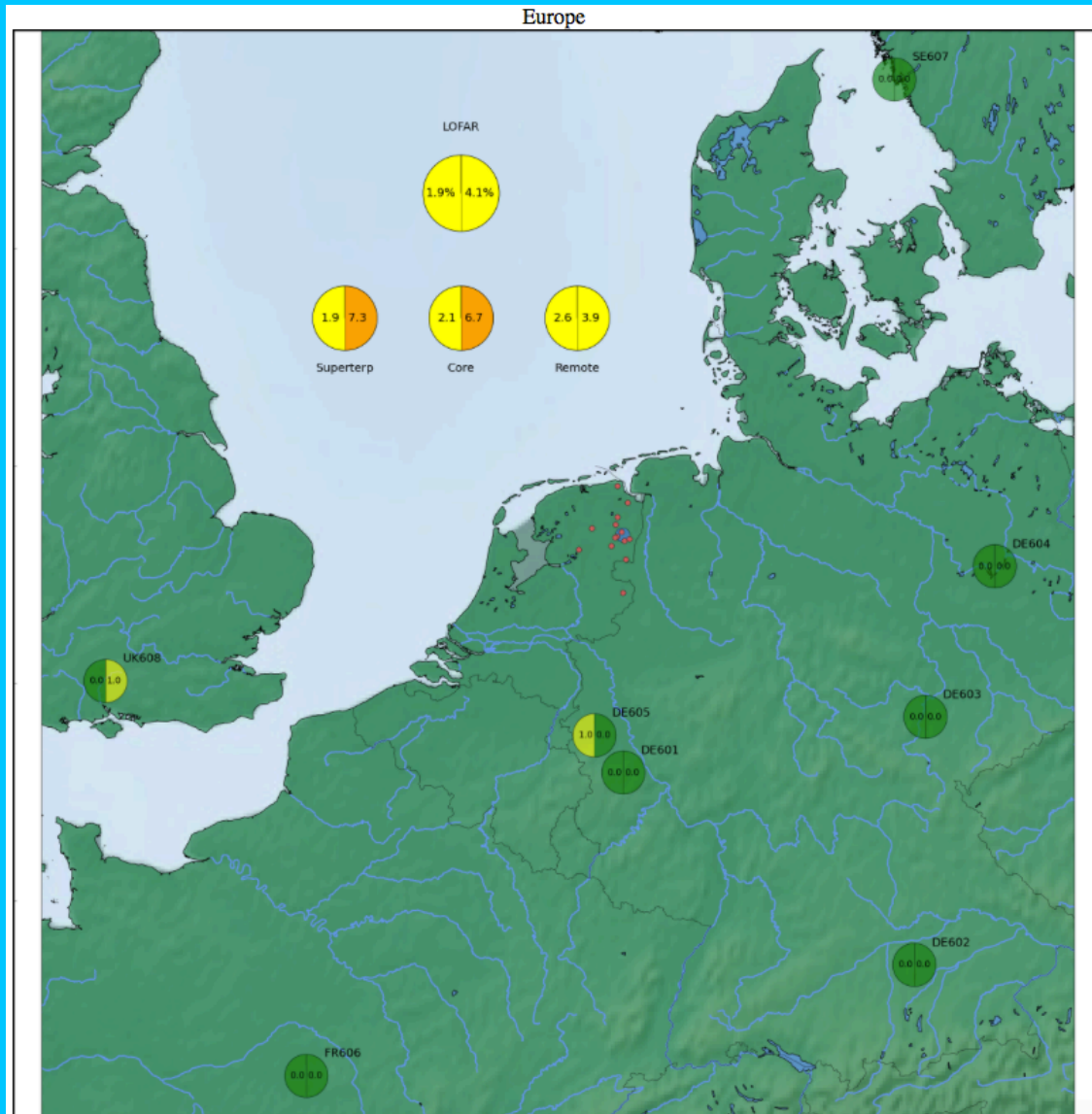


- TBB board broken on RS509
- CS004 –broken GPS cable– replaced last week
- DE604: after has been replaced a new failure of airco. Due to a crack which led very fast coolant loss. Now it woks again.
- DE609: RFI ‘task force’ formed to identify and solve source of RFI’s affecting the LBA frequencies
- New caltables in progress.
- Maintenance season started. Stations might be missing from observing run. RO will check original proposal to asses if scientific goals could be achieved.

Overview, including IS

LBA: 1.9%; HBA: 4.1%

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



➤ Color coding for non-operational elements at the various stations

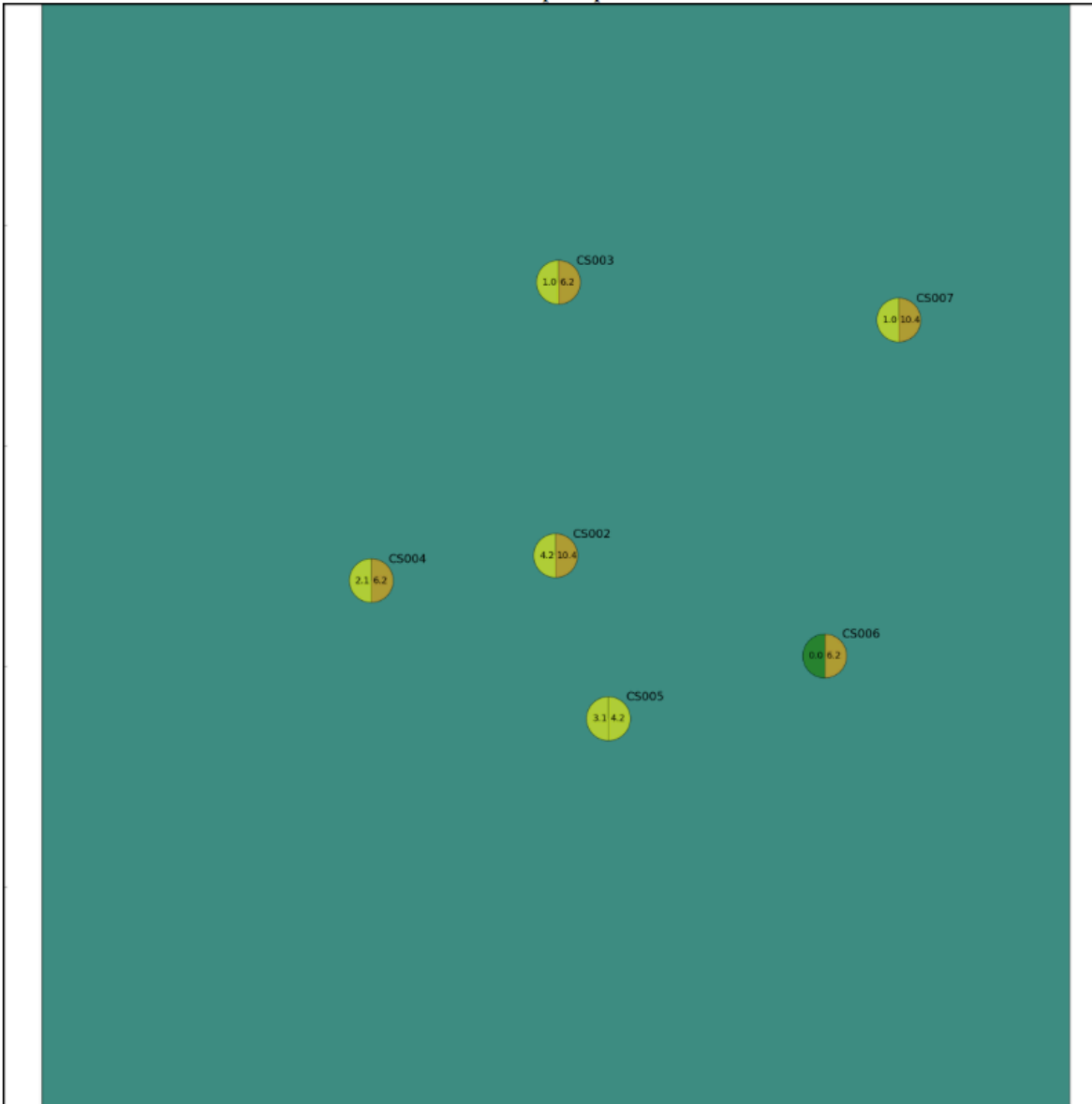
- All operational
- < 5% not operational
- < 15% not operational
- > 15% not operational

Superterp

LBA: 1.9%; HBA: 7.3%



Superterp

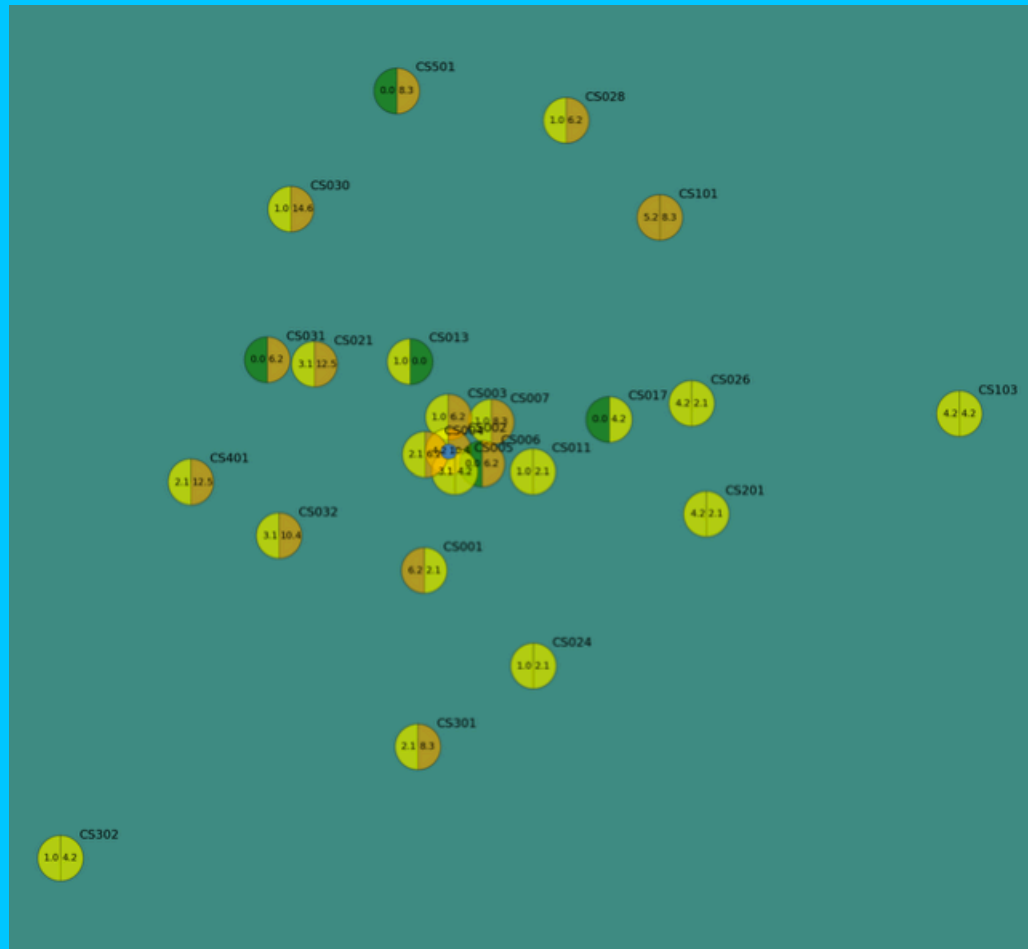


Color coding for non-operational elements at the various stations

- All operational
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- > 15% not operational

Core Stations

LBA: 2.1%; HBA: 6.7%

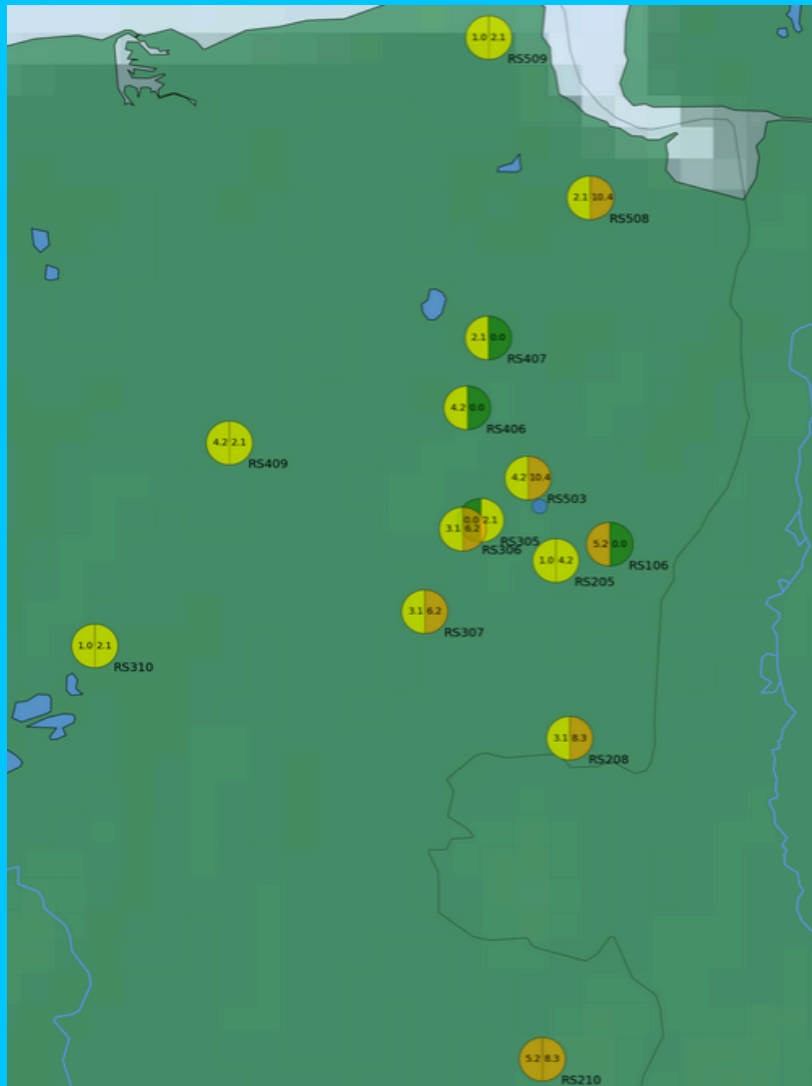


➤ Color coding for non-operational elements at the various stations

- All operational
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- < 15% not operational
- > 15% not operational

Remote Stations

LBA: 2.6%; HBA: 3.9%



➤ Color coding for non-operational elements at the various stations

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

News regarding the observing system

Observations, Pipelines and Ingest



- Observations – relatively stable in the past two weeks.
 - The schedule is very challenging and if observations fail they need to be postponed to Cycle 4 with low priority.
 - CEP2 is full and RO decide by the day if observations can be performed
- Pipelines: queue get processed smoothly.
- Ingest: instability experienced during the last two weeks. Long ingest queue and CEP2 disk space issues experienced. Troubles with staging experienced by users.
- Software rollout 20-4-2015 Release 2.10. Involved minor changes in:
 - MAC on stations/CCU/MCU
 - Offline pipeline and PULP on CEP2
 - Cobalt and outputPRoc
 - Scheduler
 - MoM (No changes since 2.9.4, but renamed to 2.10.0 and deployed on all MoM servers)

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- 20/4/2015 2nd LOFAR Bulletin (Feb-Apr 2015)

News regarding the observing system

Station Calibration



- Mode 7 tables updated for all stations in Feb 2015. New data will be collected when maintenance is completed.
- Mode 5 tables installed for RS and some IS (those available at that moment) 20/04/2015.
- Mode 3 data are being processed at the moment.
- Mode 1 will be collected at the end of the Cycle.

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

- Note: Contact point from Science Support for station calibration is L. Cerrigone

News regarding the observing system CEP



➤ CEP2:

- Locus033 spontaneously rebooted twice this week. Reason unclear. Better not overload the node until situation is better understood.

➤ CEP3:

- CEP3 info and users schedule available at <http://www.lofar.org/operations/doku.php?id=cep3:star>
- 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.

LOFAR Network Reconfiguration



- 18 – 29 May 2015
- Access to / functionality of any system in the LOFAR domain is not guaranteed – but note that data retrieval from the LTA will remain functional
- **Access to the CEP systems (CEP2 and CEP3) will not be possible during the reconfiguration period. You will be promptly notified at the end of the first week of activities in case the progress with the reconfiguration will allow to bring back online the CEP systems during the second week of the reconfiguration period.**
- For more details J.D Mol's talk
- **We invite all LOFAR users who plan to present their results at the upcoming LOFAR meetings (June 1-3, Assen) to take these timelines into account for the preparation of their presentations.**

2nd LOFAR Users Meeting and 2015 LOFAR Science Workshop



➤ Registration page:

<http://www.astron.nl/lofarscience2015/registration.php>

➤ Registration and Abstract submission **deadline is** fast approaching: **1 May**

➤ **User meeting:**

- **RO updates**
- **User feedback** on LOFAR operations and development, and highlight, when required, the need for improvement or change. A representative from each KSP's which have had direct experience with Radio Observatory procedures during the operational Cycles will be asked to give a short report (the proposal submission and ending with the retrieval of the final data from the LTA).

News regarding Cycle observations

CYCLE 3



85% of Cycle 3 completed

Week 18	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		15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14					
April	27 Mon	IoS/TBB runs					System tests; all international stations switched to ILT mode at 9 UT					LC3_012* - Sun - 2hrs		Modes tests		LC3_014 - LOTAAS		LC3_004* - NGC5055 - 9hrs												
	28 Tue	LC3_004* - NGC5055 - 9hrs			IoS/TBB runs		System tests		LC3_021 - Sun - 8hrs					System tests		IoS/TBB runs		LC3_008 - P101 - 9hrs												
	29 Wed	LC3_008 - P101 - 9hrs			LC3_014 - LOTAAS		System tests					LC3_012* - Sun - 2hrs		LC3_003 - run6-80 min		System tests		LC3_028 - EoR 3C196			LC3_011 - CHIQS J1429+5447 - 6hrs -REP									
	30 Thu	LC3_011 - CHFQS J1429+5447 - 6hrs -REP					System tests		LC3_021 - Sun - 8hrs					System tests		IoS/TBB runs		LC3_008 - P103 - 9hrs												
	1 Fri	LC3_008 - P103 - 9hrs		LC3_008 - RA 19	IoS/TBB runs		System tests		LC3_008 - RA 02	LC3_014 - LOTAAS; all international stations switched to local mode at 9 UT		LC3_012* - Sun - 2hrs		System tests		IoS/TBB runs		LC2_026, RAs 9-11, Reobservation		LC3_022 - NCP - 6hrs										
	2 Sat	LC3_022 - NCP - 6hrs		LT3_001 - Pulsar Timing																										
	3 Sun	LT3_001 - Pulsar Timing							IoS/TBB runs		LC3_012* - Sun - 2hrs		LC3_008 - RA 2.7	IoS/TBB runs		LC3_024 - G189.1+3 - 3hrs		LC3_008 - P90 - 9hrs												
Week 19	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		15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14					
May	4 Mon	LC3_008 - P90 - 9hrs			LC3_014 - LOTAAS												LC3_008 - RA 19		LC3_003 - run7-70 min		LC3_003 - Gamma 203 (Repeat)									
	5 Tue	Commissioning 2015: De Gasperin (CygA)																												
	6 Wed	LC3_009 - Beta UMi - 8hrs													LC2_025 rerun	LC3_008 - RA 19		LC3_003 - run8-36 min	LC3_009 - Gam 1 Leo - 8hrs-repeat											
	7 Thu	LC3_009 - Gam 1 Leo - 8hrs												LC3_014 - LOTAAS		LC3_008 - RA 19												LC3_008 - Lockman Hole/ P83 - 9hrs		
	8 Fri	LC3_008 - Lockman Hole/ P83 - 9hrs															LC3_008 - RA 19												LC3_008 - P65 - 9hrs	
	9 Sat	LC3_008 - P65 - 9hrs															LC3_008 - RA 19		LC3_014 - LOTAAS		LC3_023 - M81/82 - 4hrs									
10 Sun	station calibration -- mode 1																													

- Detailed Cycle 3 schedule available here:
- <https://docs.google.com/spreadsheets/d/1jDWvZmpH0ycusJTwBsMU6SxQYK5efawtk0jHSxMbo9M/pubhtml>
- 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 : 13 May – volunteers welcome!!!
- Deadline registration and abstracts submission LOFAR meetings : 1 May
- LOFAR PC meeting : 6-7 May
- Start of Cycle 4 : 15 May
- 2nd LOFAR Users Meeting : 1 June, Assen
- The 2015 LOFAR Community Science Workshop : 2 – 3 June, Assen
- MSSS workshop : 4 - 5 June, ASTRON

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

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