

Programme:

- 1. Array status & Observatory update – R. Pizzo*
- 2. The LOFAR view on NGC 5033 – K. Sendlinger*
- 3. Moonlighting with AARTFAAC – P. Prasad*
- 4. The low energy electron population in the lobes of FR-II radio galaxies - J. Harwood*

International LOFAR Telescope (ILT)



Array Status

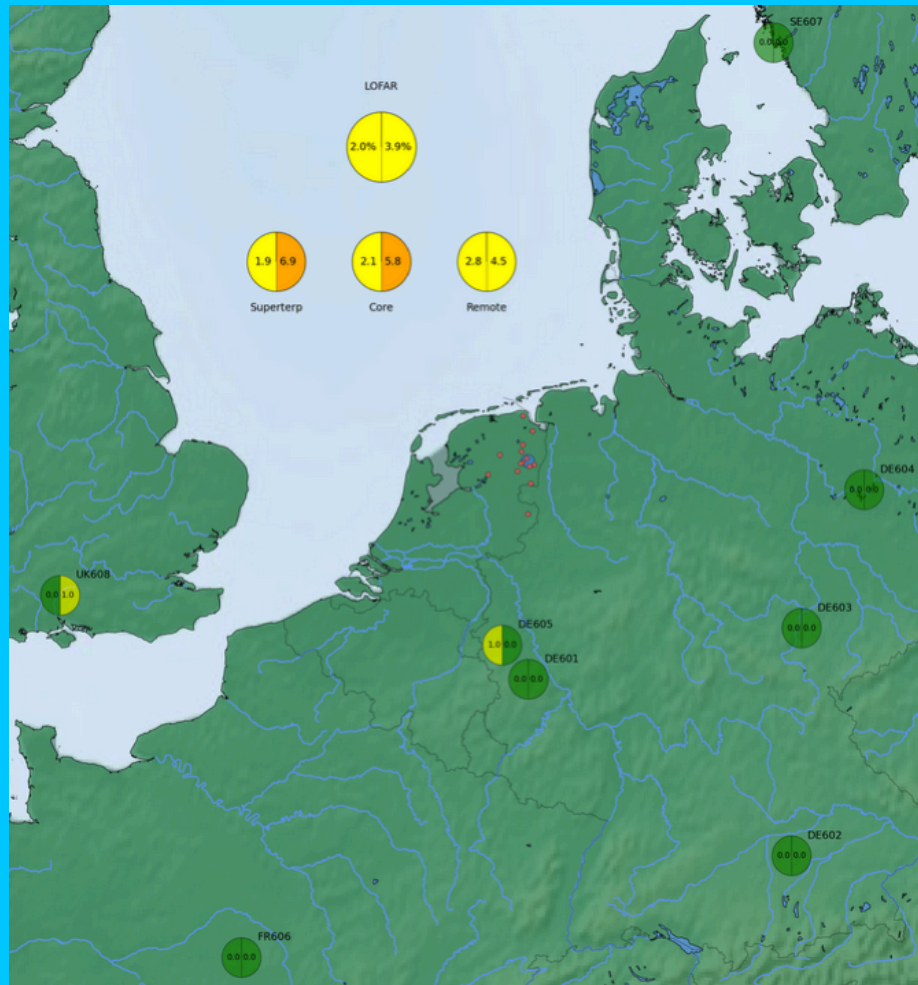


- TBB board broken on RS509
- CS005 – power supply broken – replaced last week
- CS028 – package loss – investigation in progress
- DE604: airco has been replaced
- DE609: RFI 'task force' formed to identify and solve source of RFI's affecting the LBA frequencies
- Rubidium installation at DE609 was incorrect – fixed -> new caltables in progress. Other international stations might suffer from the same -> under investigation

Overview, including IS

LBA: 2.0%; HBA: 3.9%

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

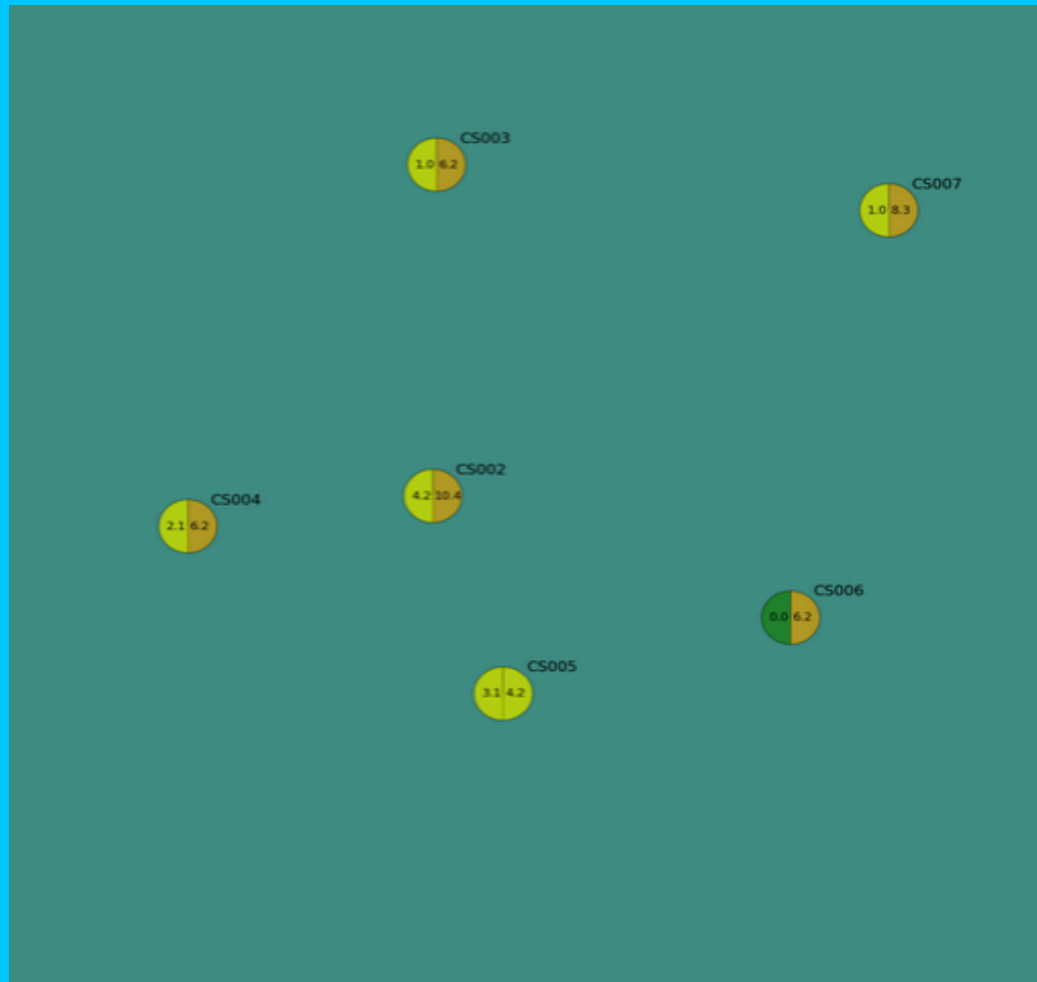


➤ Color coding for non-operational elements at the various stations

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

Superterp

LBA: 1.9%; HBA: 6.9%



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

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

Core Stations

LBA: 2.1%; HBA: 5.8%

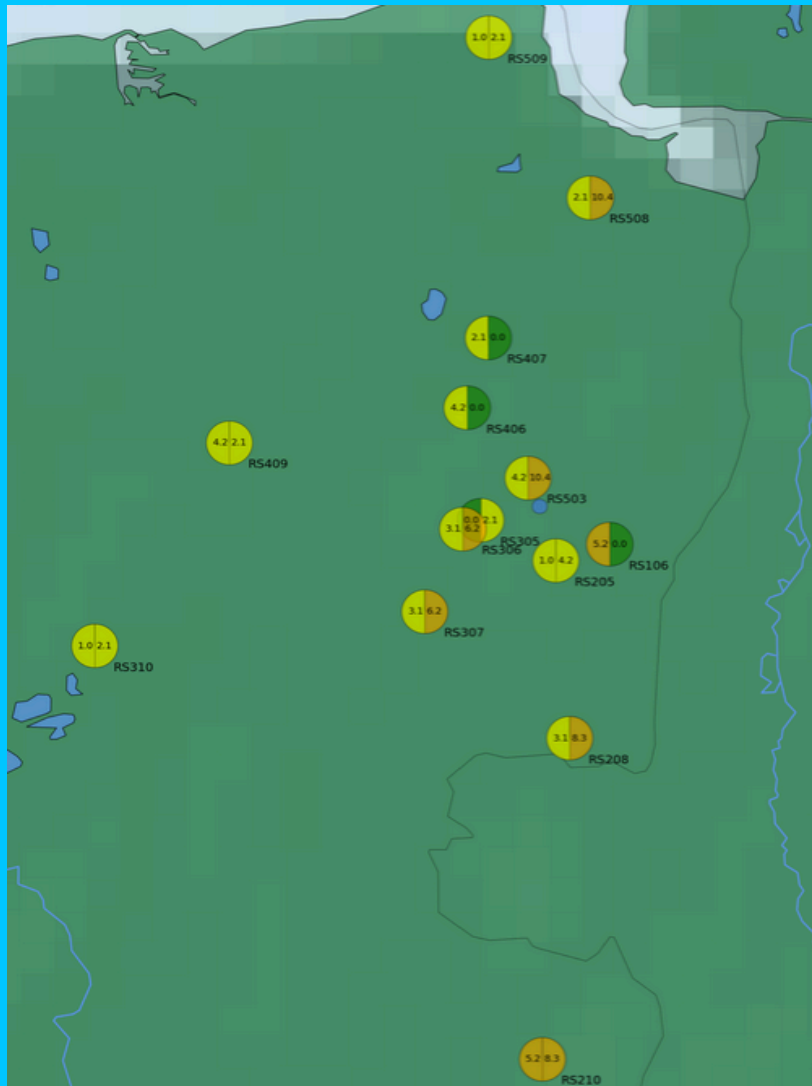


➤ Color coding for non-operational elements at the various stations

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

Remote Stations

LBA: 2.8%; HBA: 4.5%



➤ 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 - several failures experienced during the past two weeks:
 - Cobalt node 6 went down during the Easter week-end – recovered on Tuesday 7 April
 - Various international stations suffered data loss during various ILT runs – cause under investigation

- Pipelines:
 - LOBOS pipelines from 24h run have eventually finished. Ingest in progress but problematic
 - Long queue caused by Pulsar pipelines requiring running time much longer than allocated

- Ingest: instability experienced during the last two weeks. Long ingest queue and CEP2 disk space issues experienced

News regarding the observing system

Station Calibration



- Mode 7 tables updated for all stations in Feb 2015
- Mode 5 tables deployed for RS. Ready to be installed for CS
- Mode 1-3 calruns planned – 24 hrs required -> first run will be done this week

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

- Note: C. Toribio has left ASTRON. New contact point from Science Support for station calibration is L. Cerrigone

News regarding the observing system CEP



- CEP2:
 - Locus074 experienced issues during the stop day – included in production at the end of the day
- CEP3:
 - Lof011: corrupted filesystem. All data lost.
 - 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.**
- **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**

News regarding Cycle observations

CYCLE 3



Week 16		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	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13
April	13 Mon	IoS/TBB runs				LC2_025 RR 2	IoS/TBB runs	LC3_014 - LOTAAS	System tests; all international stations switched to ILT mode at 9 UTC								IoS/TBB runs	LC3_020 - M51 - 9hrs								
	14 Tue	LC3_020 - M51 - 9hrs						IoS/TBB runs	LC2_025 Rerun 3	System tests								IoS/TBB runs	LT3_001 repeat	LC3_004* - NGC5055 - 9hrs						
	15 Wed	LC3_004* - NGC5055 - 9hrs						IoS/TBB runs		System tests								LC3_014 - LOTAAS	STATIONTEST	LC3_008 - P91 - 9hrs						
	16 Thu	LC3_008 - P91 - 9hrs						LC3_024 - G063.7+1.1 - 3hrs REP		System tests								IoS/TBB runs	Commissioning2015: De Gasperin (VirA):							
	17 Fri	Commissioning2015: De Gasperin (VirA)						IoS/TBB runs		System tests; all international stations switched to local mode at 9 UTC								IoS/TBB runs	LC3_008 - P93 - 9hrs							
	18 Sat	LC3_008 - P93 - 9hrs	IoS/TBB runs				LC3_024 - G065.3+5.7 - 3hrs REP		IoS/TBB runs	LC3_014 - LOTAAS	IoS/TBB runs								LC3_023 - M81/B2 - 4hrs	IoS/TBB runs						
	19 Sun	IoS/TBB runs					LC3_003 - run16		IoS/TBB runs	LC3_005 - run22	IoS/TBB runs	LC3_005 - run22	IoS/TBB runs	LC3_003 - run27	LC3_003 - run27	LC3_003 - run27	IoS/TBB runs					LC3_003 - run3 - 87 min	IoS/TBB runs			
Week 17		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	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13
April	20 Mon	IoS/TBB runs				LC3_014 - LOTAAS		IoS/TBB runs	SOFTWARE ROLL OUT								LC3_018 - 4C24.28 - 8.75hrs									
	21 Tue	LC3_018 - 4C24.28 - 8.75hrs													LC3_012* - Sun - 2hrs							LC3_008 - P95 - 9hrs				
	22 Wed	LC3_008 - P95 - 9hrs							LC3_014 - LOTAAS					LC3_012* - Sun - 2hrs	LC3_003 - run4 - 90 min							LC3_009 - Iota Dra - 8hrs				
	23 Thu	LC3_009 - Iota Dra - 8hrs												LC3_012* - Sun - 2hrs								LC3_008 - P97 - 9hrs				
	24 Fri	LC3_008 - P97 - 9hrs												LC3_012* - Sun - 2hrs								LC3_028 - EoR 3C196				
	25 Sat	COMMISSIONING 2015 - LBA modes												LC3_012* - Sun - 2hrs			LC3_014 - LOTAAS				LC3_008 - P99 - 9hrs					
	26 Sun	LC3_008 - P99 - 9hrs												LC3_012* - Sun - 2hrs							LC3_028 - EoR 3C196					LC3_003 - run5 - 77 min

- 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 : 29 April – volunteers welcome!!!
- Deadline registration and abstracts submission LOFAR meetings : 1 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>