

Programme:

- 1. Array status & Observatory update – E. Orru'*
- 2. Update from FACTOR BW – T.J. Dijkema*
- 3. AOB*

Array Status

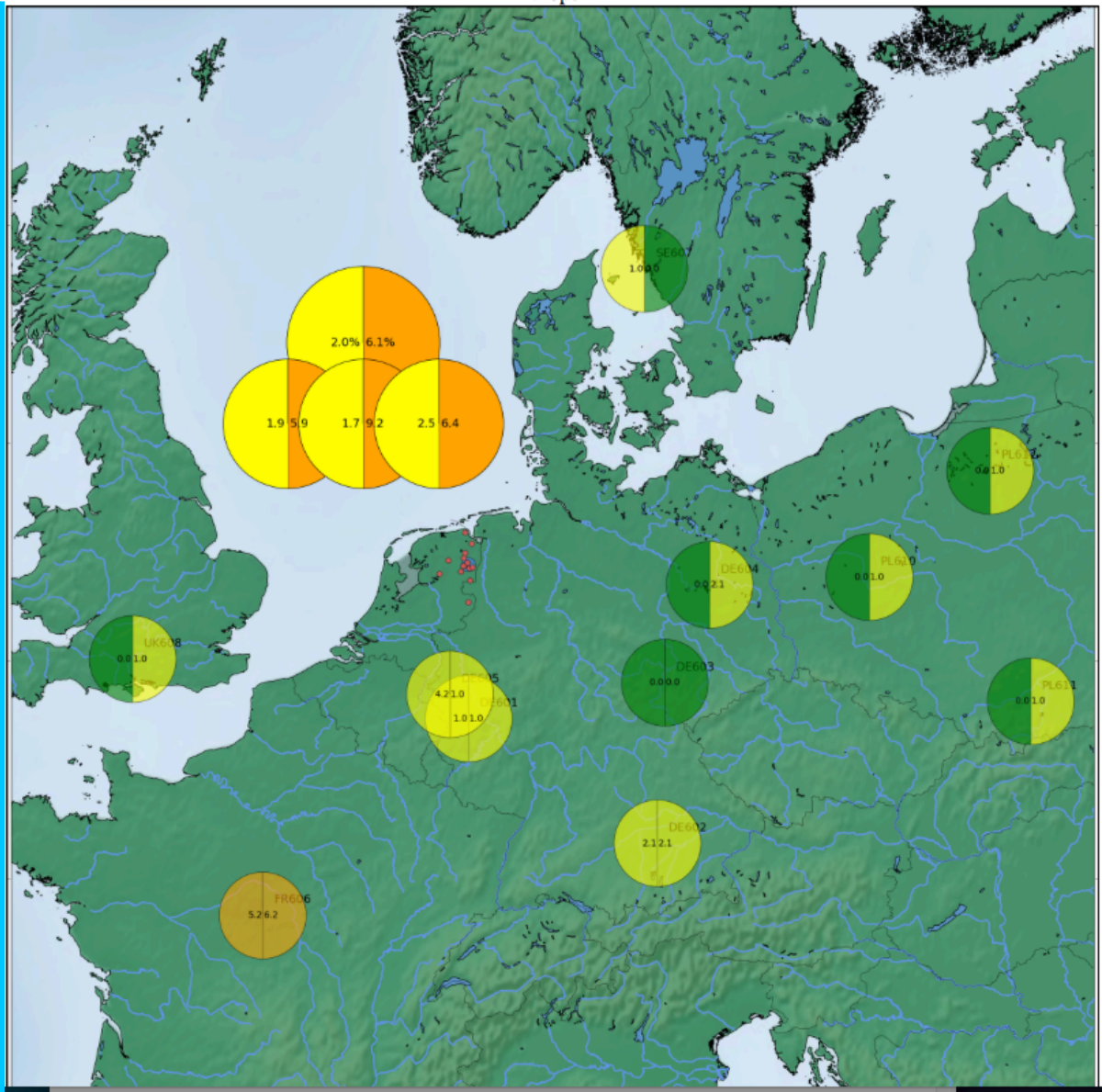


- 50 operational stations
 - 24 CSs
 - 14 RSs
 - 12 Is
- 3 new stations in Poland. Still not all used in production along with the rest of the array due to (possibly) correlator issue under investigation
- PL610 has a issue with its power supply we cannot use the station for now
- CS030 power issue at the station.
- DE609 tests switching on/off a camera to see if RFI situation would improve. Not due to camera but to farmer activities. RFIs prevent a proper LBA calibration of the station

ANTENNA ELEMENTS STATUS



Full array → LBA: 2% , HBA: 6.1%



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

Current status available at https://proxy.lofar.eu/array_status/

- SOFTWARE ROLLOUT Updated components:
 - Mac on Stations
 - Caltable names on Stations
 - MoM
- The LBA sparse mode is available; station calibration effort is ongoing and will require few weeks.
- LTA database is down since Monday. People at the LTA side are working to fix it. It is not clear when it will be possible to use it again. Affecting both ingest, retrieval and query on the database.

STATION CALIBRATION



Station	mode 1/2	mode 3/4	mode 5	mode 6	mode 7
CS001	23-06-15	21-09-15	19-02-15	23-12-15	11-02-15
CS002	23-06-15	21-09-15	11-02-14	23-12-15	24-02-15
CS003	18-06-15	21-09-15	11-02-14	23-12-15	24-02-15
CS004	18-06-15	21-09-15	11-02-14	23-12-15	19-02-15
CS005	18-06-15	21-09-15	11-02-14	23-12-15	19-02-15
CS006	18-06-15	13-07-15	11-02-14	21-01-16	19-05-14
CS007	18-06-15	21-09-15	11-02-14	23-12-15	24-02-15
CS011	18-06-15	21-09-15	19-02-15	23-12-15	24-02-15
CS013	17-09-14	05-08-14	19-02-15	23-12-15	19-02-15
CS017	18-06-15	13-07-15	19-02-15	23-12-15	24-02-15
CS021	18-06-15	05-08-14	19-02-15	13-01-16	19-02-15
CS024	18-06-15	21-09-15	19-02-15	23-12-15	19-05-14
CS026	18-06-15	21-09-15	19-02-15	23-12-15	19-02-15
CS028	18-06-15	21-09-15	19-02-15	23-12-15	24-02-15
CS030	18-06-15	21-09-15	19-02-15	23-12-15	19-02-15
CS031	20-09-12	05-08-14	19-02-15	23-12-15	24-02-15
CS032	18-06-15	13-07-15	19-02-15	23-12-15	24-02-15
CS101	18-06-15	21-09-15	19-02-15	23-12-15	24-02-15
CS103	13-07-15	21-09-15	19-02-15	23-12-15	24-02-15
CS201	18-06-15	21-09-15	19-02-15	23-12-15	19-02-15
CS301	18-06-15	21-09-15	19-02-15	23-12-15	24-02-15
CS302	18-06-15	21-09-15	19-02-15	23-12-15	19-02-15
CS401	18-06-15	15-10-12	19-02-15	23-12-15	24-02-15
CS501	18-06-15	21-09-15	19-02-15	23-12-15	24-02-15
RS106	18-06-15	21-09-15	20-04-15	23-12-15	21-01-16
RS205	18-06-15	21-09-15	04-11-15	23-12-15	04-11-15
RS208	18-06-15	12-11-13	04-11-15	23-12-15	04-11-15
RS210	18-06-15	22-07-14	04-11-15	23-12-15	21-01-16
RS305	13-07-15	21-09-15	04-11-15	23-12-15	04-11-15
RS306	18-06-15	21-09-15	04-11-15	23-12-15	04-11-15
RS307	18-06-15	21-09-15	04-11-15	23-12-15	04-11-15
RS310	18-06-15	22-07-14	04-11-15	23-12-15	21-01-16
RS406	18-06-15	21-09-15	04-11-15	23-12-15	04-11-15
RS407	18-06-15	21-09-15	21-09-15	23-12-15	04-11-15
RS409	18-06-15		04-11-15	13-01-16	04-11-15
RS503	18-06-15	21-09-15	20-04-15	23-12-15	21-01-16
RS508	18-06-15	21-09-15	04-11-15	13-01-16	04-11-15
RS509	18-06-15	21-09-15	04-11-15	23-12-15	24-02-15
DE601		04-11-15	19-10-15	23-12-15	19-10-15
DE602		13-07-15	20-04-15	23-12-15	24-08-15
DE603		04-11-15	19-10-15	23-12-15	19-10-15
DE604		03-10-13	19-10-15	23-12-15	19-10-15
DE605		13-07-15	19-10-15	23-12-15	19-10-15
FR606		04-11-15	04-11-15	23-12-15	04-11-15
SE607		04-11-15	19-10-15	23-12-15	19-10-15
UK608		04-11-15	19-10-15	23-12-15	19-10-15
DE609		03-04-15	21-09-15	23-12-15	21-09-15
PL610			29-01-16	29-01-16	29-01-16
PL611		29-01-16	03-02-16	03-02-16	03-02-16
PL612		29-01-16	29-01-16	29-01-16	29-01-16

➤ Current status

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

LBA sparse calibration tables in progress.

- CEP4 cluster will replace CEP2
 - Software support made some observing performance tests (manual, no scheduling system in place yet).
 - Results on I/O (no data loss with demanding data rate observations) look encouraging but the final check will be done when processing pipelines will be active simultaneously.
 - End of April is planned the transition from Software Support to Science Support for commissioning and characterization (**in case of NO delays**).

Cycle 6

- Deadline was 9 March 12 UT
- 30 proposals were submitted
- There is a factor of oversubscription both for observing and processing
- Stay tuned more info will be given at the Lofar User Meeting in Zandvoort.

News regarding Cycle observations

Cycle 5 in progress.

Week 11		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			11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10
March	14 Mon	LCS_017 - P155+52 - 8hrs LBA - CEP3			TBB + tests				SOFTWARE ROLL OUT; all international stations switched to ILT mode at 9 UT							SYSTEM TESTS										
	15 Tue	SYSTEM TESTS + LORA detectors maintenance										LT5_004 - LOTAAS - 4hrs HBA		Station test		TBB + tests										
	16 Wed	TBB + tests	COMMISSIONING - J1427385+331241 - 4hrs HBA mode6 / CEP3			TBB + tests		System tests						TBB + tests			LCS_009 - GJ406 - 2hrs LBA run4									
	17 Thu	LCS_009 - GJ406 - 2hrs LBA run4	TBB + tests				System tests	LT5_006 - 4C28.58 - 9hrs ALL-INT HBA						TBB + tests		LT5_007 - P138+29 - 8hrs HBA										
	18 Fri	LT5_007 - P138+29 - 8hrs HBA		TBB + tests			System tests	LT5_004 - LOTAAS - 4hrs HBA; all international stations switched to local mode at 9 UT		System tests				TBB + tests			LCS_009 - GJ406 - 2hrs LBA run5									
	19 Sat	LCS_009 - GJ406 - 2hrs LBA run5	TBB + tests										LT5_008 - 2M1016 - 6hrs HBA													
	20 Sun	LT5_008 - 2M1016 - 6hrs HBA		TBB + tests						LT5_004 - LOTAAS - 4hrs HBA		TBB + tests			LCS_007 - 3C237 - 6hrs LBA - CEP3											
Week 12		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			12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11
March	21 Mon	LCS_007 - 3C237 - 6hrs LBA - CEP3	TBB + tests				all international stations switched to ILT mode at 9 UT										LCS_009 - GJ406 - 2hrs LBA run6									
	22 Tue	LCS_019 - 3C309.1 - 4hrs HBA				LT5_004 - LOTAAS - 4hrs HBA						Moved from OCT 30 - LC4_034 - P167+42 - 8hrs HBA														
	23 Wed	Moved from OCT 30 - LC4_034 - P177+42 - 8hrs HBA			LT5_007 - P031+49 - 8hrs HBA										LT5_007 - G09AB(2) - 4hrs HBA											
	24 Thu	LC3_007 - LOBOS Commissioning - 6hrs HBA						LT5_004 - LOTAAS - 4hrs HBA						Station test		C4_03 - P248+41 - 8hrs HBA - PETITI										
	25 Fri	LC4_034 - P248+40 - 8hrs HBA - REPETITION						System tests; all international stations switched to local mode at 9 UT						LCS_007 - 3C237 - 6hrs HBA - CEP3												
	26 Sat	LCS_007 - 3C237 - 6hrs HBA - CEP3	LT5_004 - LOTAAS - 4hrs HBA						LCS_006 - NGC4449 - 9hrs LBA - CEP3																	
	27 Sun	LCS_006 - NGC4449 - 9hrs LBA - CEP3										LCS_009 - GJ406 - 2hrs LBA run7														

➤ Detailed Cycle 5 schedule available here:

- <http://www.tiny.cc/LC5>
- ****Always cc 'sciencesupport@astron.nl' and include the proposal code in the subject line****

CALENDAR LOFAR activities



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RADIO OBSERVATORY

LOFAR

- ([Observing Proposals](#))
- ([Asking for time](#))
- ([LOFAR Science](#))

LOFAR TOOLS

LOFAR Data Size Calculator

Tool to compute the expected data size for Beamformed and images.

LOFAR

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Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	Mar 1	2	3	4
	LOFAR LBA Busy Week - LEIDEN	LOFAR Stop Day	11am LSM (LOFAR Status Meeting) -			
6	7	8	9	10	11	12
			12 UT - LOFAR Cycle 6 Proposal submissi			
13	14	15	16	17	18	19
	LOFAR Software Roll Out		11am LSM (LOFAR Status Meeting) -			
20	21	22	23	24	25	26
27	28	29	30	31	Apr 1	2

LOFAR Papers

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LOFAR PAPERS

An overview of LOFAR publications for the period of 2011 - 20



Year	Number of Publications
2011	8
2012	11
2013	15
2016 (March)	21

LOFAR publications for the period of 2011 - 2016 (March)

2016

- LOFAR
 - Observing Proposals
 - Asking for time
 - LOFAR Science
 - LOFAR Papers**
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 - LOFAR Documentation
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 - Apertif - Surveys
- GENERAL
 - PC pages
 - Special projects

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LOFAR in the media

<http://www.astron.nl/radio-observatory/lofar-science/lofar-papers/lofar-papers>

- 3rd LOFAR Users Meeting : 4 April 2016
- LOFAR Science Meeting : 5-6 April 2016
- ILT Technical Operations Meeting : 7 April 2016
- Surveys KSP Meeting : 7 April 2016
- Next LSM : 11 May 2016

Full calendar available at:

<https://calendar.google.com/calendar/embed?src=2jkmjaro6ek0kh7tmf9brpf8pk%40group.calendar.google.com&ctz=Europe/Amsterdam>

LOFAR Papers

<http://www.astron.nl/radio-observatory/lofar-science/lofar-papers/lofar-papers>

Note: subscribe to lofar-news and lsm mailing lists:

<http://www.astron.nl/radio-observatory/subscribe-lofar-news-and-lsm-mailing-lists/subscribe-lofar-news-and-lsm-mailing-li>

LSM presentations:

http://www.lofar.org/wiki/doku.php?id=public:lsm_new:start