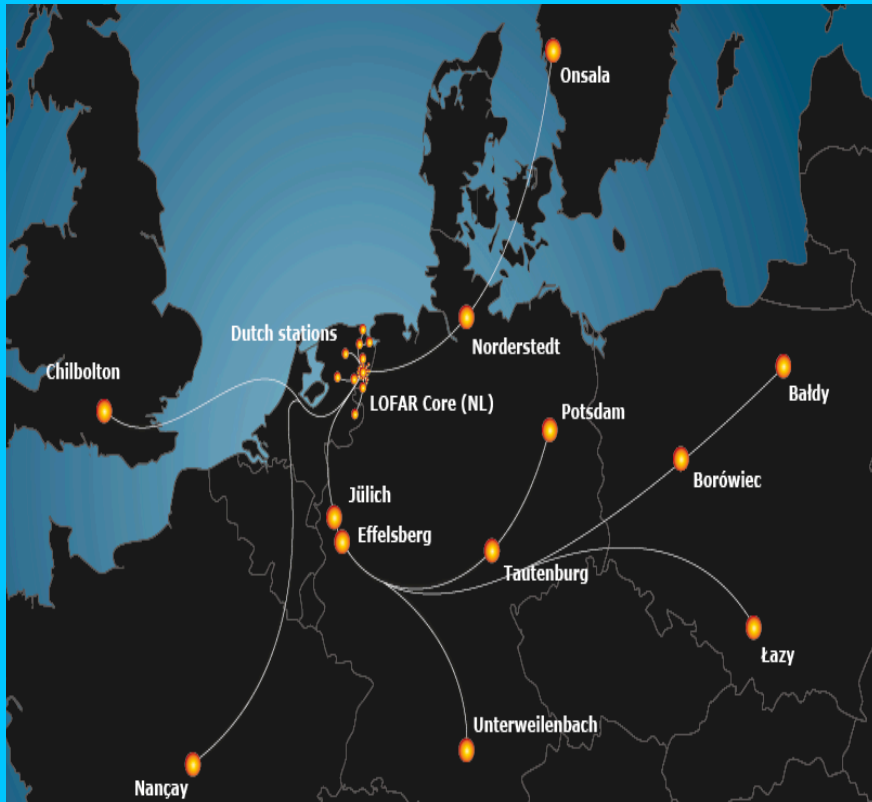


Programme:

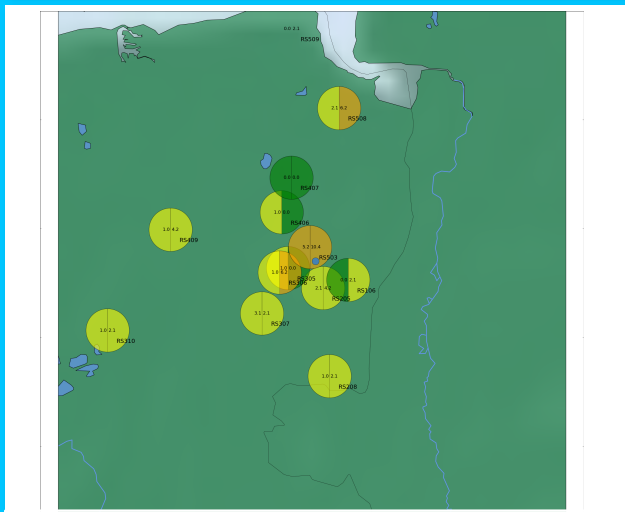
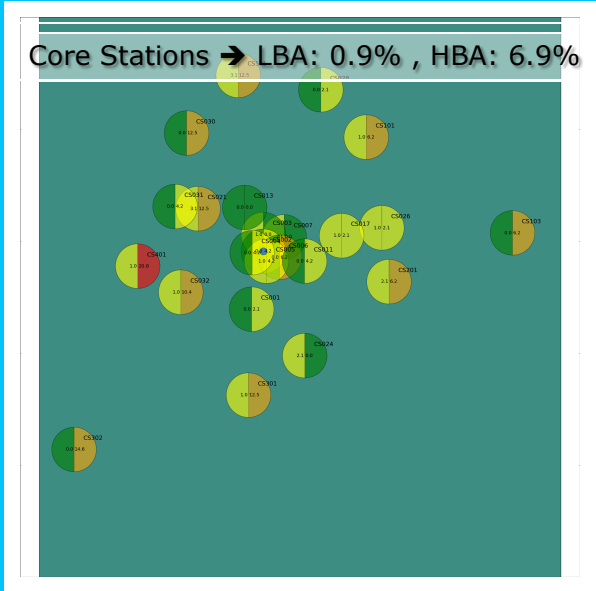
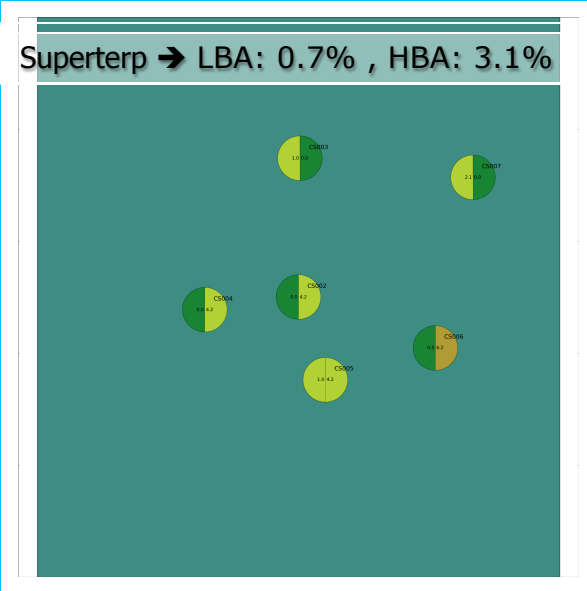
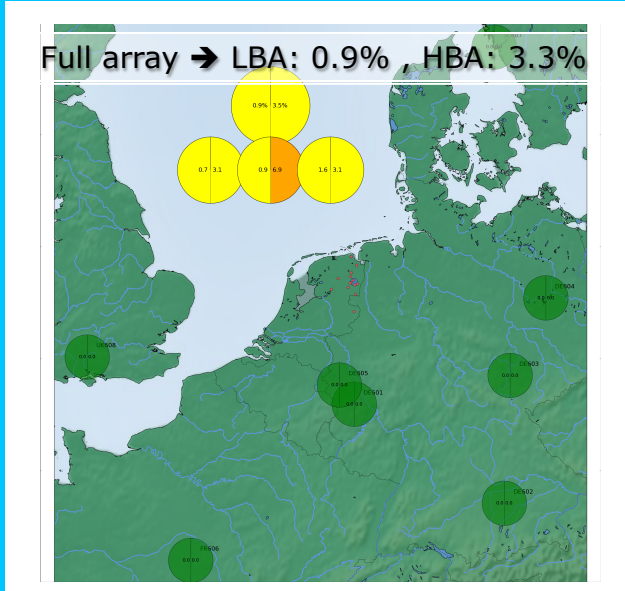
1. *Array status & Observatory update – S. ter Veen*
2. *LOFAR pulsar flux calibration – V. Kondratiev*
3. *Update from the CR group – S. ter Veen*
4. *AOB*

Array Status



- 47 operational stations
 - 24 CSs
 - 14 RSs
 - 9 Is
- 3 new stations being built in Poland
- CS013 operational again – included in test runs.
- DE602 broken rubidium, replaced 2015-10-13
- RS210: Broken relais (LCU) is replaced
- Station maintenance is on going – details in Telescope schedule

ANTENNA ELEMENTS STATUS



Remote Stations → LBA: 1.6% , HBA: 3.1%

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

- No data available from international stations
- Current status available at

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

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

- New mode 5 and mode 7 data collected on Sep 19 and 21. Reduction going on.
- Mode 3 data collected from international stations on Oct 8.
- Mode 1 data collection right now (Oct 14)
- Current status

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

News regarding the observing system: Stability & performance

- A few issues experienced by the observing and processing system.
 - A cobalt node crashed on Fri Oct. 9 at 21:23 UT. It was restarted on Saturday morning, just in time for LC4_034
 - Ingest: delays by LOBOS ingest, put at end of the queue
 - A few locus nodes experienced issues and were temporarily taken out of production.
 - High flag rate on DE603
- 160 MHz clock
 - Stability problems for TBB operations
 - Final test required before station calibration

- CEP4 cluster will replace CEP2
 - Commissioning starting
 - Implementation planned for end of the year
 - CEP2 will be decommissioned on the same timescale
 - Clean up being prepared
 - Large data copy: contact science support first
 - Data cannot be stored on CEP4
 - DO NOT USE home directory for large datafile transfers

News regarding Cycle 4 observations

80% complete

October	14	Wed	Station calibration - mode 1 NL stations													System tests		STATIONTEST		TBB + test runs						
	15	Thu	TBB + test runs		LC4_030 - LOTAAS - 3hrs HBA		LC4_034 - P203+57 - 8hrs HBA							System tests		LC4_007 - 3C9 - 9hrs LBA ALL-INT - repeat										
16	Fri	LC4_007 - 3C9 - 9hrs LBA ALL-INT - repeat		System tests	DDT4_004 - Follow-up		All International stations switched to local mode at 9 UT; LC4_001 - Sun - 6hrs LBA CEP3							System tests		TBB + test runs		LC4_022 - 3C58 - 8hrs LBA								
17	Sat	LC4_022 - 3C58 - 8hrs LBA		TBB + test runs			LC4_001 - Sun - 6hrs LBA CEP3					TBB + test runs														
18	Sun	TBB + test runs			LC4_030 - LOTAAS - 3hrs HBA		LC4_001 - Sun - 6hrs LBA CEP3					TBB + test runs				LC4_022 - 3C58 - 6hrs HBA										
Week 43		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			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2
October	19	Mon	LC4_022 - 3C58 - 6hrs HBA		TBB + test runs			All Int St. to ILT mode, except FR606 LC4_001 - Sun - 6hrs LBA CEP3							AART FAAC TEST											
	20	Tue			LC4_030 - LOTAAS - 3hrs HBA		FR606b to ILT mode	LC4_034 - P228+40 - 8hrs HBA - REPET																		
	21	Wed					LC4_034 - P216+37 - 8hrs HBA																			
	22	Thu			LC4_030 - LOTAAS - 3hrs HBA		LC4_034 - P216+32 - 8hrs HBA							STATIONTEST												
	23	Fri			LC3_007 - LOBOS Commissioning - 6hrs LST 6-12			All int. Stations to Local/GLOWmode																		
	24	Sat			LC4_030 - LOTAAS - 3hrs HBA											LC4_012		LC4_021 - J0242+62 - 2hrs LBA - CEP3 - DO NOT MOVE!								

➤ Detailed Cycle 4 schedule available here:

- <https://docs.google.com/spreadsheets/d/14JsJfKfXsrK1vzYzaFhZH3jTeFbFht5GyuF3NyI3Qdw/pubhtml>

➤ Contact Science Support in case of questions/issues

➤ **Always cc 'sciencesupport@astron.nl' and include the proposal code in the subject line**

- Next LSM : 28 October 2015
- LOFAR Cycle 5 PC meeting : 28 – 29 October 2015
- Software roll-out : 2 November 2015
- MKSP Busy Week @ ASTRON : 3-6 November 2015
- Next Stop day : 10 November 2015
- Start Cycle 5 : 15 November 2015
- KSP Pis meeting : 19 November 2015

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