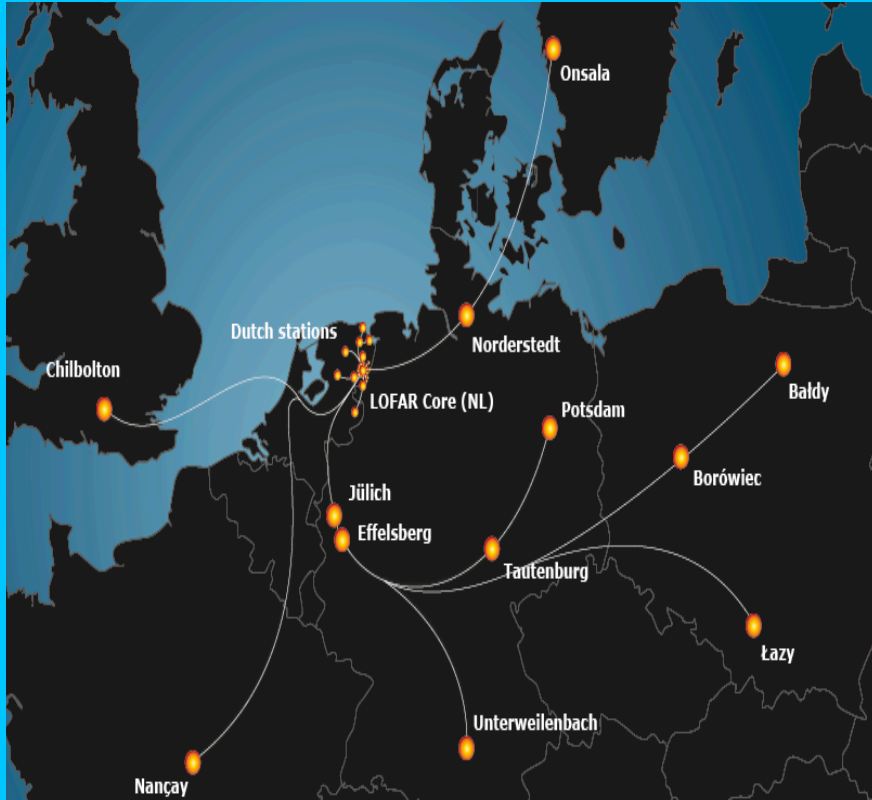


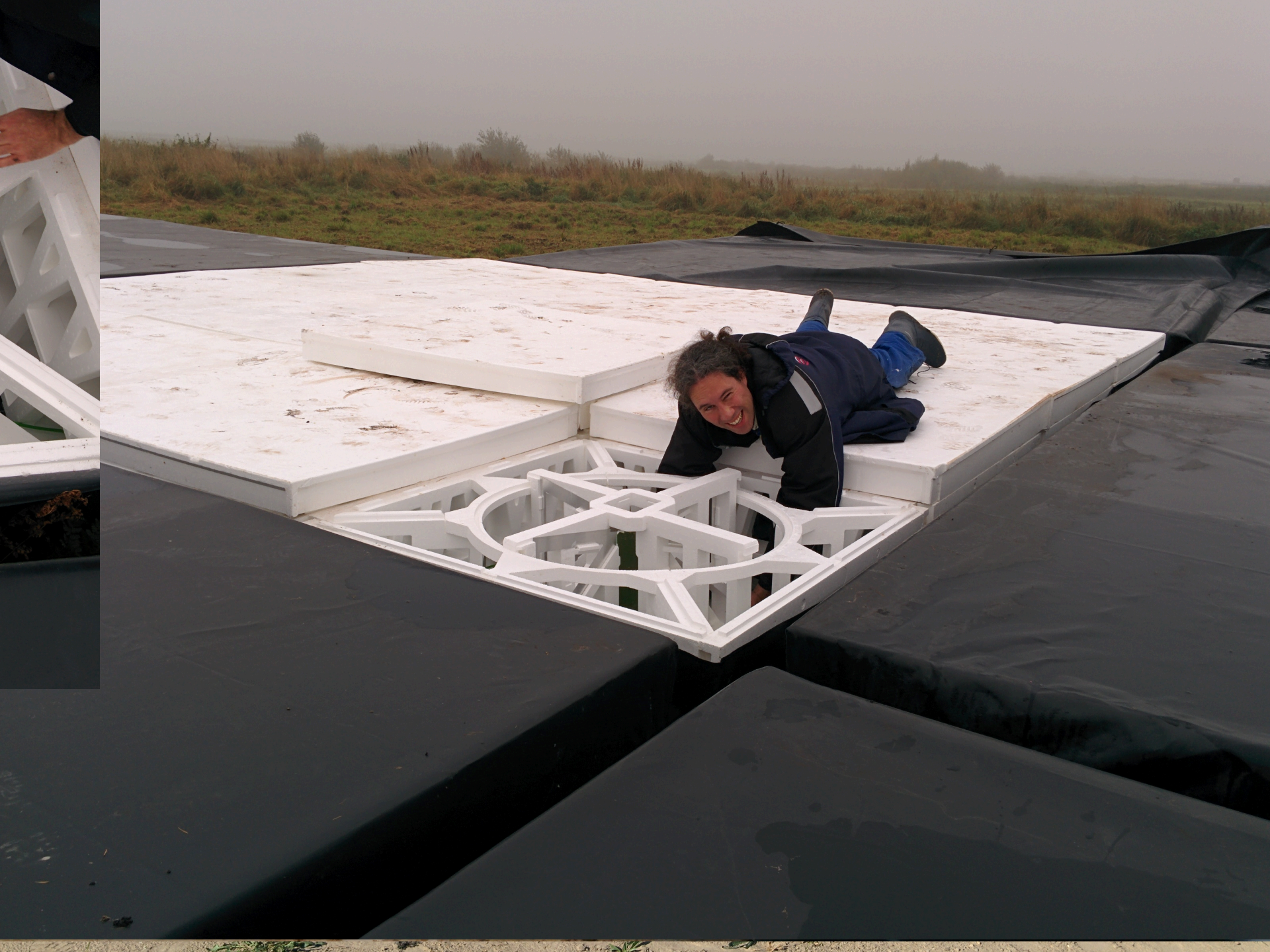
Programme:

- 1) Array status and Radio Observatory update - E. Orru'
- 2) Rotating CS013 - A. G. de Bruyn
- 3) LOFAR census of millisecond pulsars- V. Kondratiev
- 4) AOB

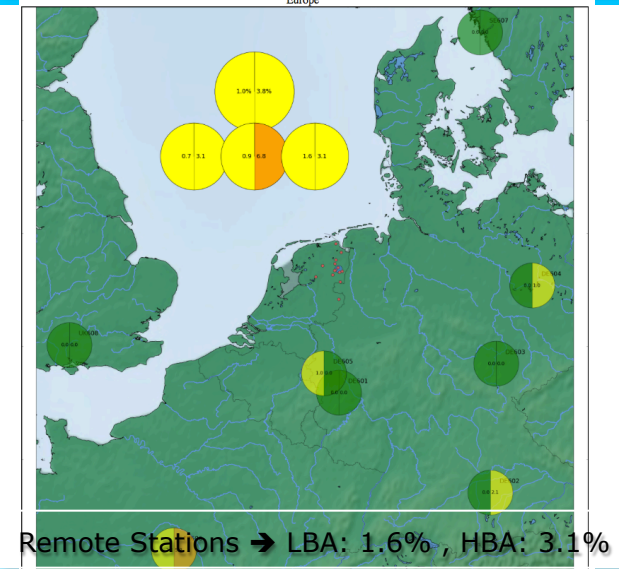
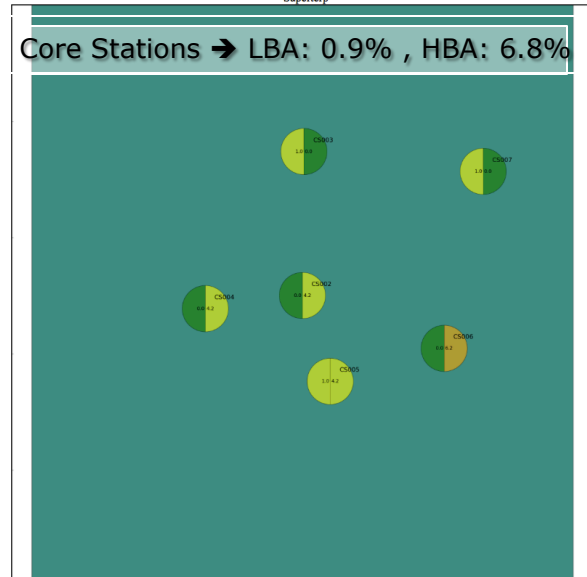
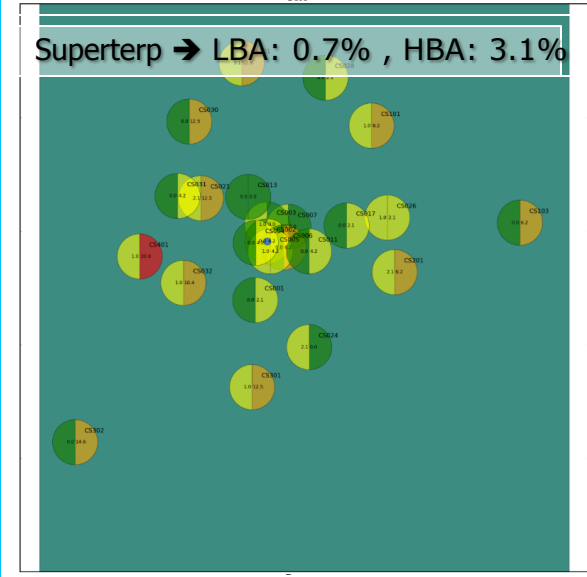
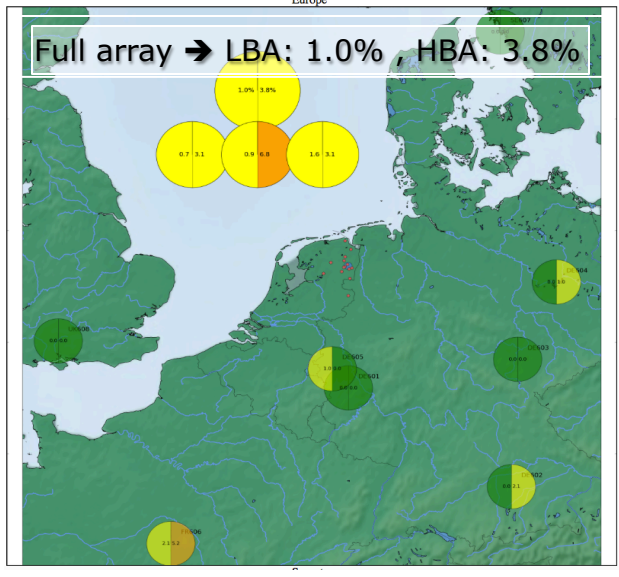
Array Status



- 47 operational stations
 - 24 CSs
 - 14 RSs
 - 9 Is
- 3 new stations in Poland. Building process is finished. Network connection and calibration on going.
- CS013 finished the rotation of all HBA elements. After polarization test all elements are rotated well. The station test showed some minor errors that will be fixed today.
- CS026 lost connection, due to broken electronics in heat exchange device. Fixed now.
- DE602 connection problems. Local network.
- DE601 RCU1 seems to be broken.
- Station maintenance is on going – details in Telescope schedule



ANTENNA ELEMENTS STATUS



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	19-10-15		19-10-15
DE602		13-07-15	20-04-15		24-08-15
DE603		13-07-15	19-10-15		19-10-15
DE604		03-10-13	19-10-15		19-10-15
DE605		13-07-15	19-10-15		19-10-15
FR606		13-07-15	20-04-15		24-08-15
SE607		13-07-15	19-10-15		19-10-15
UK608		13-07-15	19-10-15		19-10-15
DE609		03-04-15	21-09-15		21-09-15

- New mode 5 and mode 7 installed on some IS.
- Mode 3 data collected from international stations on Oct 8. Reduction on going.
- Mode 1 data collection 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 cbm008 crashed on Oct 24 and cbm002 on Oct 15. Without giving an alarm to the Sys Admin and operators. # observation were aborted.
 - Ingest of LOBOS finished without interruption
 - A few locus nodes experienced issues and were temporarily taken out of production.

- 160 MHz clock
 - Stability problems for TBB operations
 - Final test required before station calibration
 - If TBB tests are positive it might be included in the next rollout

- CEP4 cluster will replace CEP2
 - Delivery delayed by DELL. RO is ready for commissioning.
 - 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

- RO is working to provide a repository for scripts and tools developed and shared by users.
- LOFAR slides for general usage have been collected and will be available soon
- A new version of the Cookbook will be released soon.

News regarding Cycle 4 observations

80% complete

Week 44		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	26 Mon	LC4_019 - HD80606 - LBA DO NOT MOVE! - CEP3	LC4_021 - B0809+74 - 2hrs LBA - CEP3 - DO NOT MOVE!	LC4_012	TBB + test runs	LC4_030 - LOTAAS - 4hrs HBA - DO NOT START BEFORE 11UT	demi x test 256ch	AARTFAAC TESTS; Int. stations to ILTmode at 9 UT					DAB HBA HIGH	TBB + test runs		LC4_012 - HD80606 - LBA DO NOT MOVE! - CEP3 CHECK DURATION			LC4_031 - B0809+74 - 2hrs LBA - CEP3 - DO NOT MOVE!									
	27 Tue	LC4_012 - HD80606 - LBA DO NOT MOVE! - CEP3 CHECK DURATION	LC4_034 - P177+40 - 8hrs HBA					System tests	Networktests by KS Ingest + Int. Stations		TBB + test runs			LC4_035 4C+10.07 DO NOT MOVE - CHECK TIMING														
	28 Wed	LC4_030 - LOTAAS - 3hrs HBA	TBB + test runs	LC4_034 - P229+45 - 8hrs HBA - REPEAT					System tests	TBB + test runs	STATIONTEST	TBB + test runs	LC4_012															
	29 Thu	LC4_012 - HD80606 - 8hrs LBA DO NOT MOVE! - CEP3	TBB + test runs	LC4_034 - G12AB(1) - 4hrs HBA	System tests	LC4_021 - Jupiter test - DO NOT MOVE!	System tests		TBB + test runs			LC3_007 - LOBOS Commissioning - 6hrs LST 0-6																
	30 Fri	LC3_007 - LOBOS Commissioning - 6hrs LST 0-6	TBB + test runs		System tests; all international stations switched to local mode at 9 UT					TBB + test runs	DDT001 - Cas A - HBA - 5 hrs																	
	31 Sat	TBB + test runs										DDT001 - Cas A - HBA - 5 hrs																
	1 Sun	TBB + test runs		LC4_021 - Jupiter - 2hrs LBA - REPEAT - CEP3 - DO NOT MOVE!	LC4_030 - LOTAAS - 3hrs HBA		TBB + test runs																					
Week 45		UT	0 <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> <th>15</th> <th>16</th> <th>17</th> <th>18</th> <th>19</th> <th>20</th> <th>21</th> <th>22</th> <th>23</th>	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			4 <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> <th>15</th> <th>16</th> <th>17</th> <th>18</th> <th>19</th> <th>20</th> <th>21</th> <th>22</th> <th>23</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th>	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3		
November	2 Mon	TBB + test runs					9 UT - Int. stations to ILTmode - SOFTWARE ROLL OUT					EMPTY FOR TESTS																
	3 Tue	EMPTY FOR TESTS																										
	4 Wed	LC4_030 - LOTAAS - 3hrs HBA					LC4_034 - P248+40 - 8hrs HBA - REPETITION																					
	5 Thu	STATIONTEST	LC4_034 - P160+42 - 8hrs HBA																									
	6 Fri	LC4_030 - LOTAAS - 3hrs HBA	All international stations switched to local mode at 9 UT																									
	7 Sat	LC4_030 - LOTAAS - 3hrs HBA	LC4_004 - Pulsar Timing HBA																									
	8 Sun	LC4_004 - Pulsar Timing HBA																										

- Detailed Cycle 4 schedule available here:
 - <https://docs.google.com/spreadsheets/d/14JsJFkFxFxSrK1vzYzaFhZH3jTeFbFht5GyuF3NyI3Qdw/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 : 11 November 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