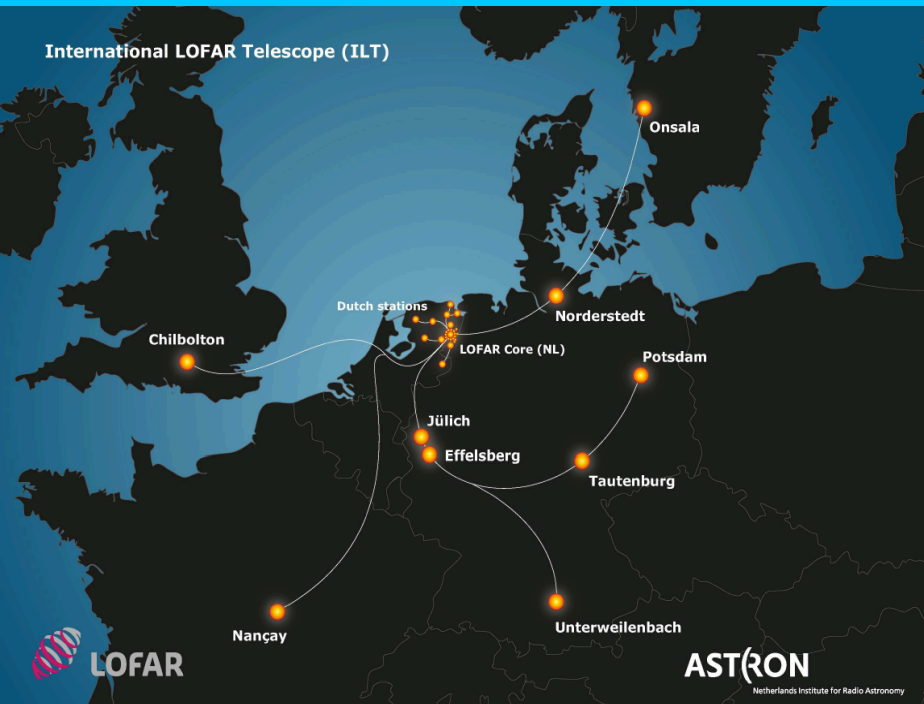


## Programme:

- 1) Array status and Observatory Update - L. Cerrigone
- 2) Strategies for LBA calibration and imaging - F. de Gasperin
- 3) LOBOS: the LOFAR LOnG-Baseline calibratOr Survey - N. Jackson
- 4) Volker Heesen: LBA and HBA of 3C31 - V. Heesen

# Array Status



**47 operational stations**

**38 NL stations**

**9 international stations**

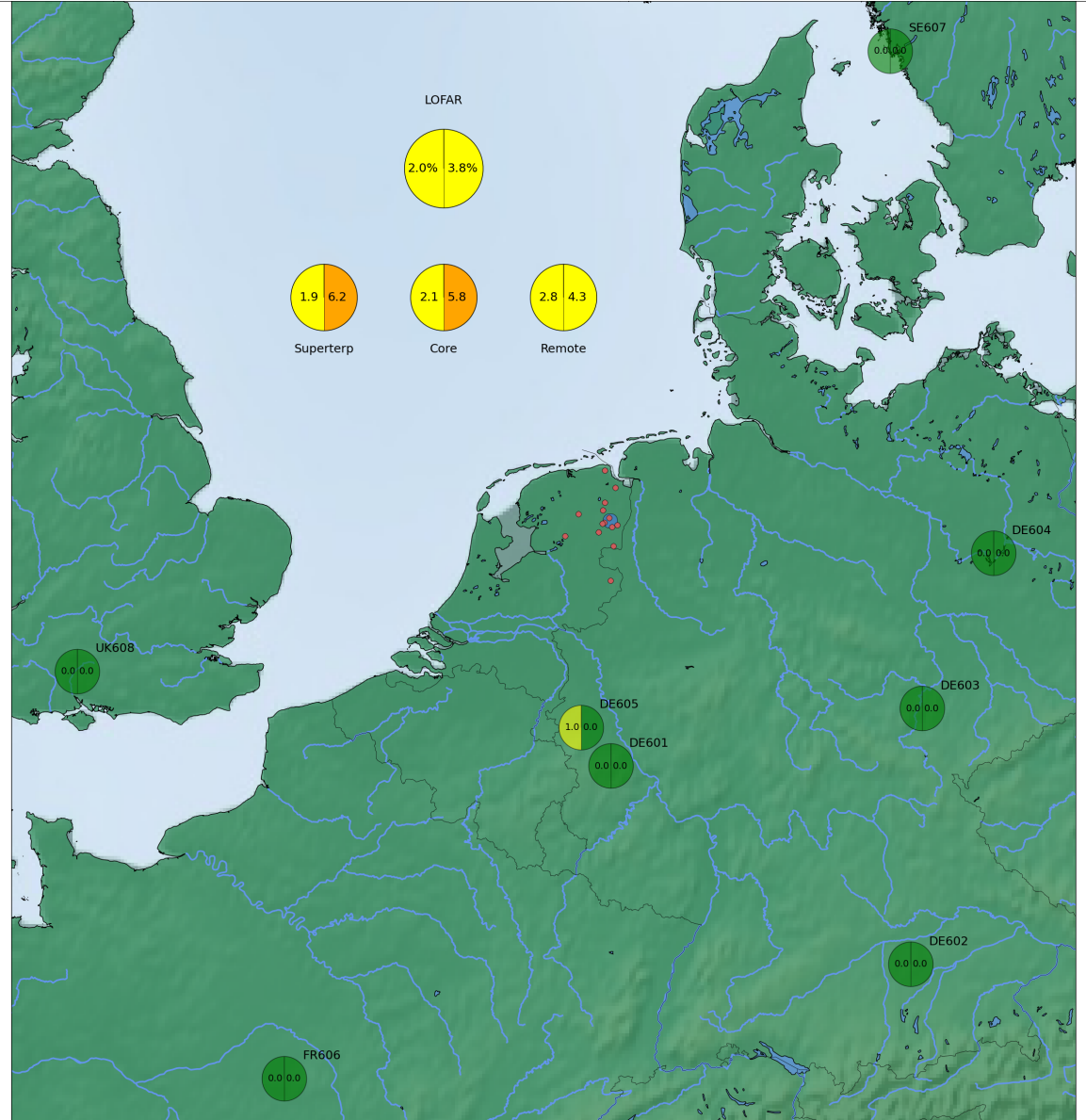
**4 new stations to come: Poland (3)**

- TBB board broken on RS509
- DE604: Air Conditioning fixed
- DE609: HBA station calibration performed. Investigation going on to identify source of LBA RFI. Team on site on 12 Feb.
- DE602: updated calibration in all modes

# Overview, including IS

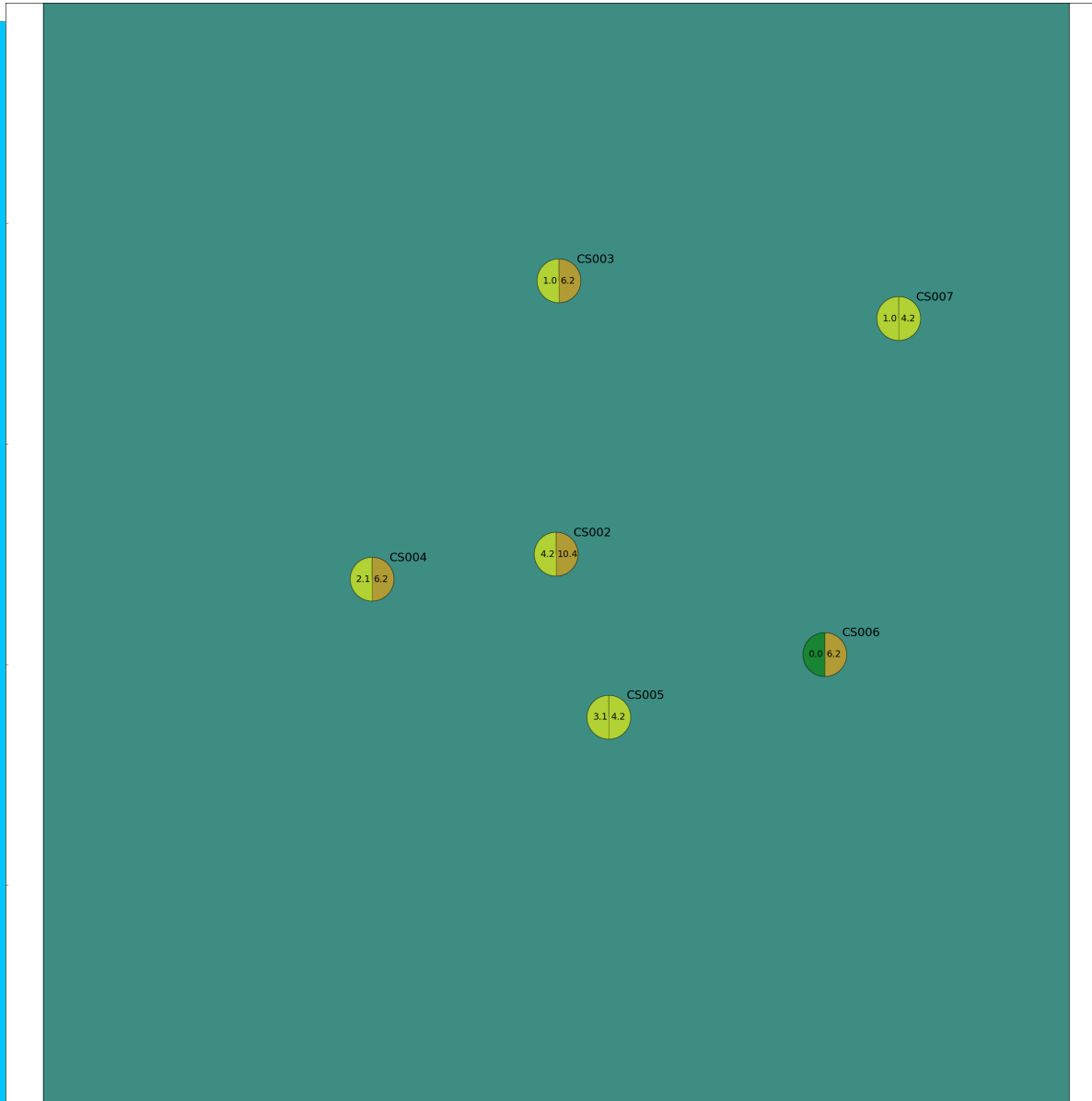
LBA: 2.0 %; HBA: 3.8%

see [https://proxy.lofar.eu/array\\_status/](https://proxy.lofar.eu/array_status/)



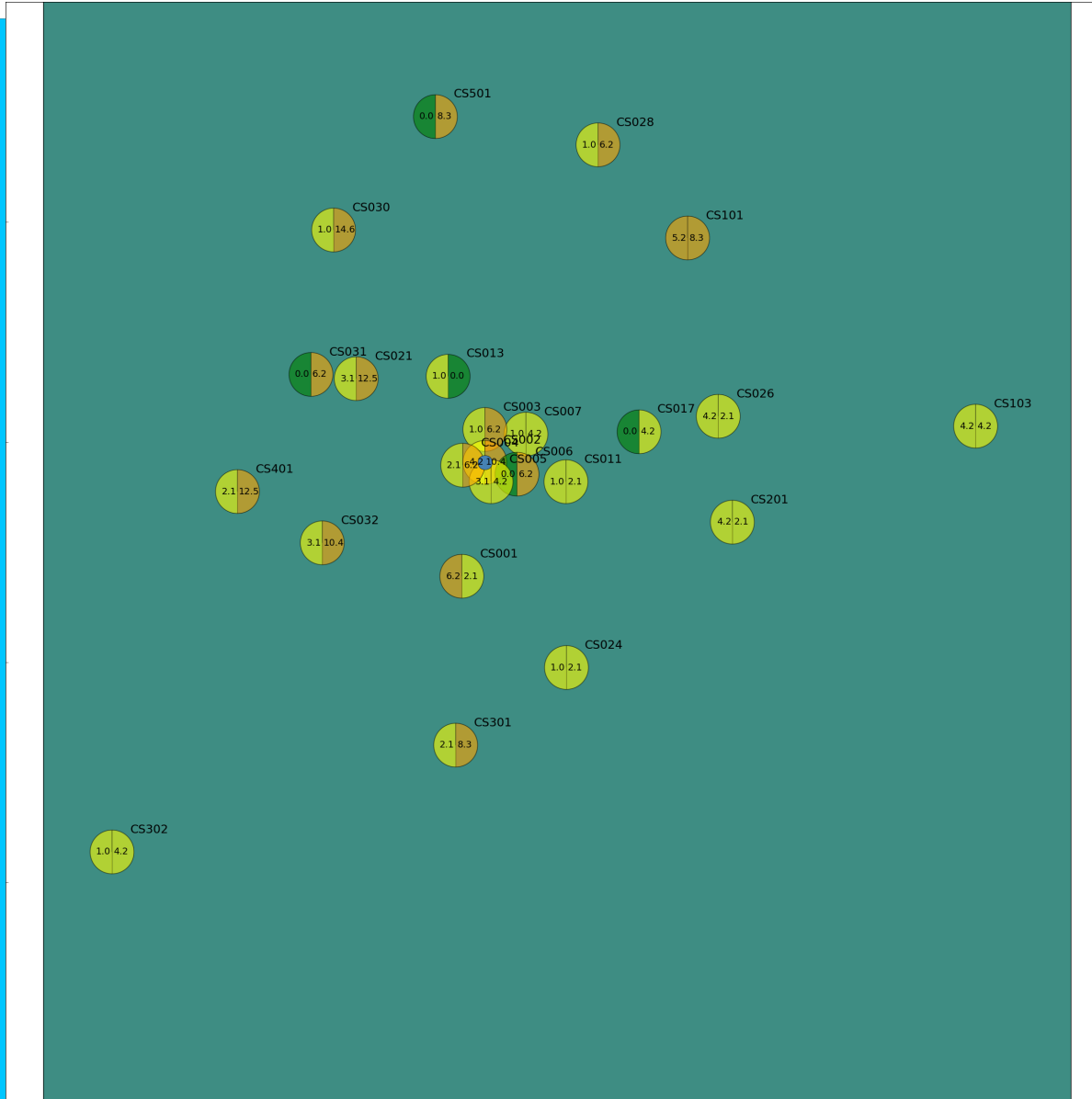
# Superterp

LBA: 1.9%; HBA: 6.2%



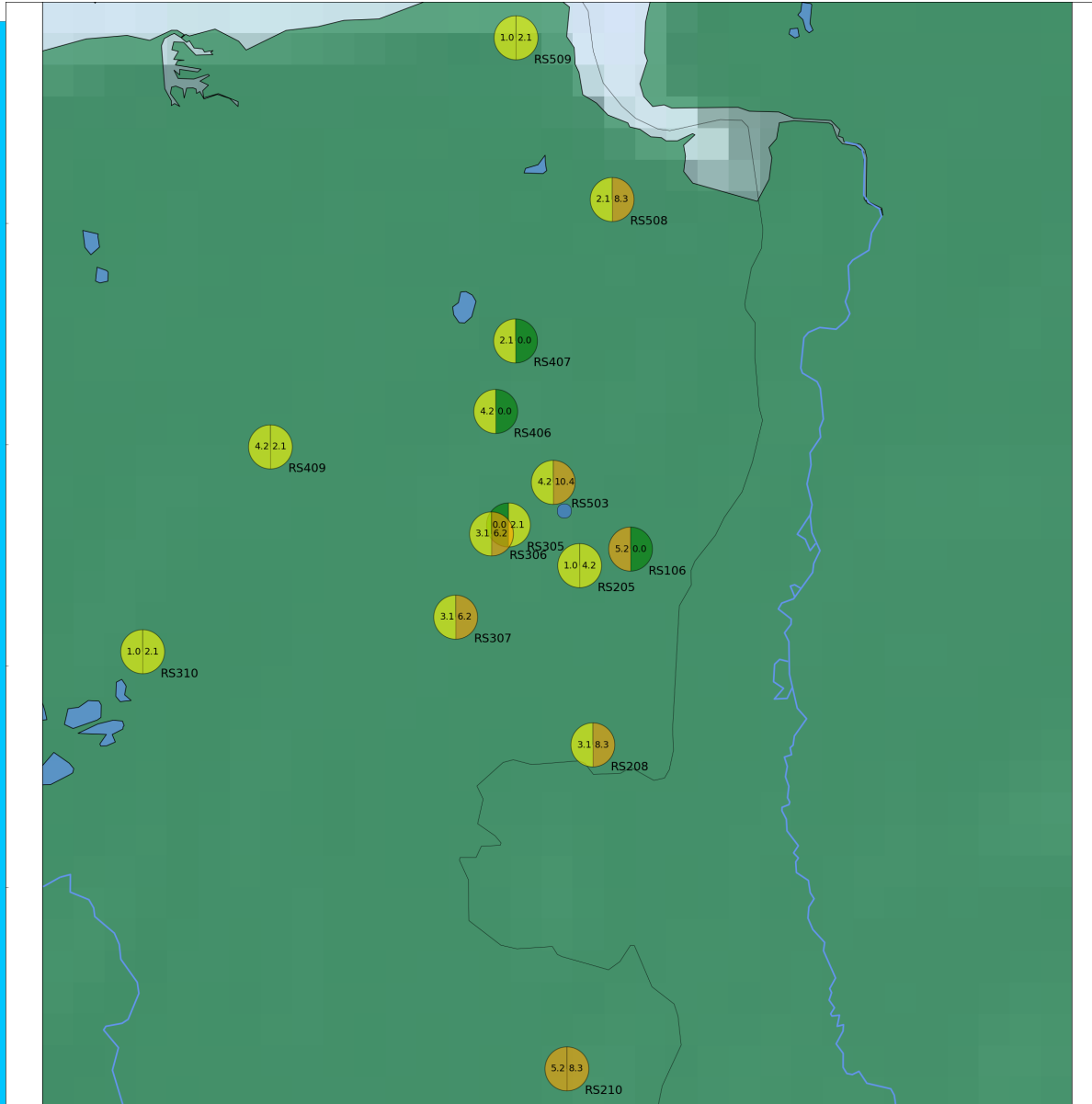
# Core Stations

LBA: 2.1%; HBA: 5.8%



# Remote Stations

LBA: 2.8%; HBA: 4.3%



# News regarding the observing system



- The observing system performed relatively well during the last two weeks.
- A software rollout was performed on 26 January. No major incidences.
- We are working toward the inclusion of DE609 in routine observations. At the moment, a high ( $\sim 25\%$ ) level of flagging is observed when DE609 is used with all the other international stations. The issue is currently under investigation.

# News regarding the observing system Pipelines



- \* A short-term fix to the pipeline numbering issue (MAC bug) has been implemented. The final fix will be included in the next software roll out.
- \* Long pipeline queue due to demanding projects (e.g. LC2\_025, LC2\_039). Improvements are currently being developed to speed up the processing of the pulsar pipelines.
- \* Commissioning and characterization of the self-calibration pipeline in production is going on and the results will be on line on 23 Feb, as announced in the latest call for proposals.



- Issues related to the ASTRON mail server led to missing emails from 31 Jan to 02 Feb. We believe we have recovered all of them, but if you contacted Science Support during those days and received no reply, please write again.
- Cycle 4 Call for proposals was issued on 30 Jan. The LOFAR web pages have been updated to cover new capabilities. When submitting a proposal, please check the quality of your final pdf document: proposals that are not easily readable (i.e., messed-up figures, margins, etc.) may be rejected.

# News regarding Cycle3 observations

February		4	Wed	LC3_034 - Moon - 6hr	IoS/TBB runs	LC3_014 - LOTAAS	IoS/TBB runs	LC3_035 2001-09-27	IoS/TBB runs	STATIONTEST	LC3_008 - P49 - 9hrs																
February		5	Thu	LC3_008 - P49 - 9hrs		IoS/TBB runs		LC3_035 2001-09-27	LC3_035 2145-07-50	IoS/TBB runs	LC3_028 - EoR NCP																
February		6	Fri	LC3_028 - EoR NCP		IoS/TBB runs; all international stations except UK608, but including DE609, to local mode at 9 UTC		LC3_035 02045-16	IoS/TBB runs		LC3_022 - NCP - 6 hrs REPETITION																
February		7	Sat	LC3_022 - NCP - 6hrs REPETITION	IoS/TBB runs		LT3_001 - Pulsar Timing																				
February		8	Sun	LT3_001 - Pulsar Timing				IoS/TBB runs		LC3_008 - P51 - 9hrs																	
Week 7		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			10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	
February		9	Mon	LC3_008 - P51 - 9hrs		IoS/TBB runs		LC3_030 RA 16			LC3_030 RA 22			LC3_030 RA 27	LC3_014 - LOTAAS		LB test REPETITION										
February		10	Tue	LC2_007 LBTs 16:19-11	LC2_006, RAs 9-11 Reobservation				LC2_007 LBTs 15-19			LC2_007 LBTs 19			LC2_007 LBTs 21-25	LC3_028 - EoR NCP											
February		11	Wed	LC3_028 - EoR NCP				LC3_014 - LOTAAS						LC2_007 LBTs 0:3-4.5	LC3_028 - EoR 3C196												
February		12	Thu	LC3_028 - EoR 3C196						LC3_035 RA 20	LC3_035 2145-07-50		LC3_028 - EoR NCP														
February		13	Fri	LC3_028 - EoR NCP								LC3_014 - LOTAAS				LC3_008 - P53 - 9hrs											
February		14	Sat	LC3_008 - P53 - 9hrs												LC3_028 - EoR 3C196											
February		15	Sun	LC3_028 - EoR 3C196						LC3_036 - PSR J1932+1916 - 3hrs		LC3_035 2145-07-50		LC3_014 - LOTAAS		LC3_008 - P55 - 9hrs											
Week 8		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			10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	
February		16	Mon	LC3_008 - P55 - 9hrs										LC3_035 2145-07-50	LC3_028 - EoR NCP												
February		17	Tue	LC3_028 - EoR NCP														LC3_009 - Beta Gem - 8hrs									
February		18	Wed	LC3_009 - Beta Gem - 8hrs		LC3_014 - LOTAAS														LC3_028 - EoR 3C196							

- Detailed Cycle 3 schedule available here:
- <https://docs.google.com/spreadsheets/d/1jDWvZmpH0ycusJTwBsMU6SxQYK5efawtk0jHSxMbo9M/pubhtml>
- Changes can be applied on daily base: in case of questions/issues contact Science Support
- **\*\*Always cc sciencesupport@astron.nl and include the proposal code in the subject line\*\***

- CEP2 disk space remains critical especially after weekends.
- CEP3 is now the only commissioning cluster supported by RO.
- A software update will be performed on CEP3. Users will be notified in advance.
- Beware that the LOFAR software version activated by the command 'use Lofar' on CEP3 does not include the bug fix to correct for the wrong weight information recorded by COBALT between 19-03-2014 and 31-10-2014. An update is planned for 3 March. If you need a newer version sooner than that, you can use the daily build ('use LofIm').

# Calendar LOFAR activities:



- Next stop day 03 March 2015
- Next Rollout 17 March 2015
- Next LSM 18 February 2015
- Deadline for Cycle 4 11 March 2015
- MKSP meeting 9-13 March 2015, Nijmegen (NL)
- LOFAR Users Meeting 1 June, Assen (NL)
- LOFAR Science Workshop 2-3 June, Assen (NL)
- LOFAR news email list:  
<http://www.astron.nl/radio-observatory/subscribe-lofar-news/subscribe-lofar-news>