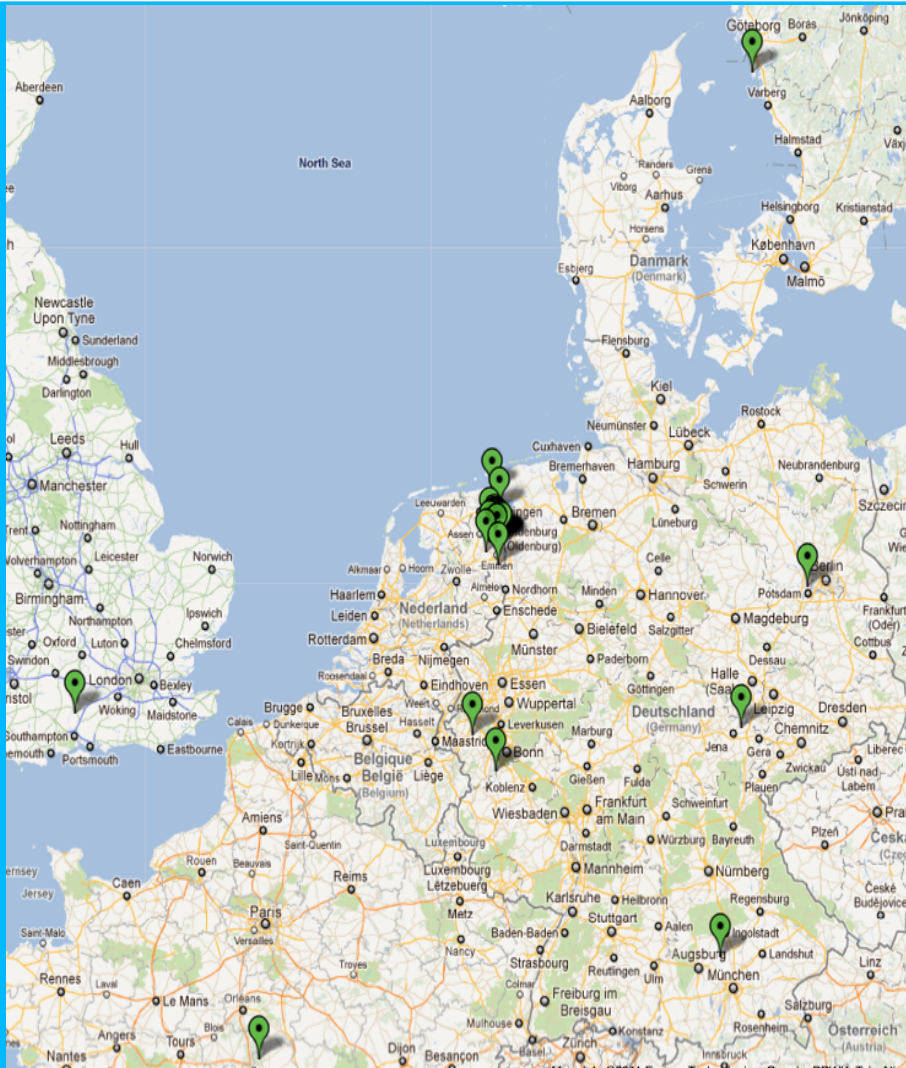


Please mute your  
microphone and turn off  
your webcam

## Programme:

- 1. Array status and Observatory update - R. Fallows*
- 2. Effects of atmospheric electric fields on radio emission from air showers - G. Trinh*
- 3. Calibration of LOFAR data on the Cloud - J. Sabater*
- 4. Galactic Science Imaging With Bright Diffuse Emission - J. Gregson.*

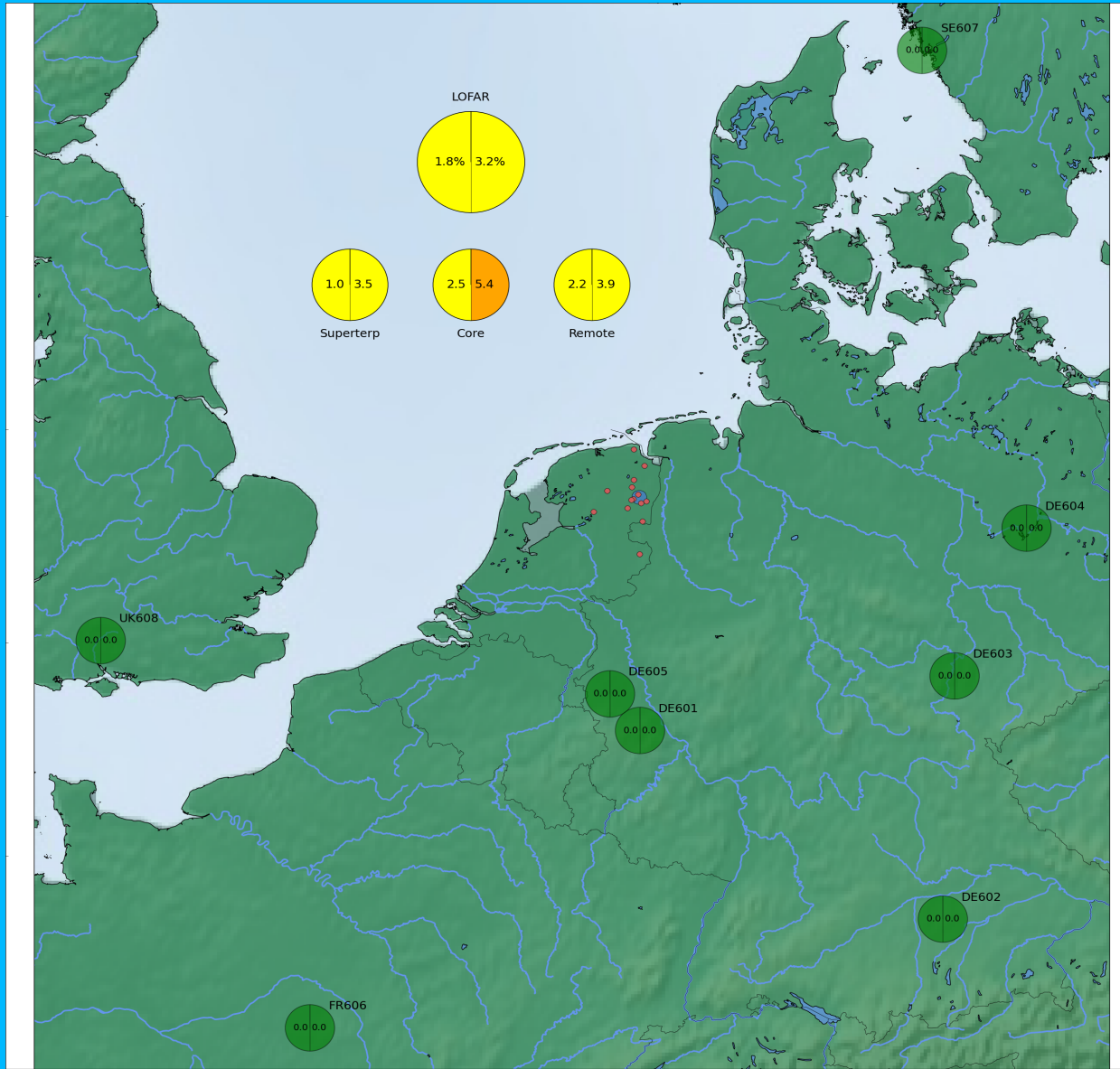
# Array Status



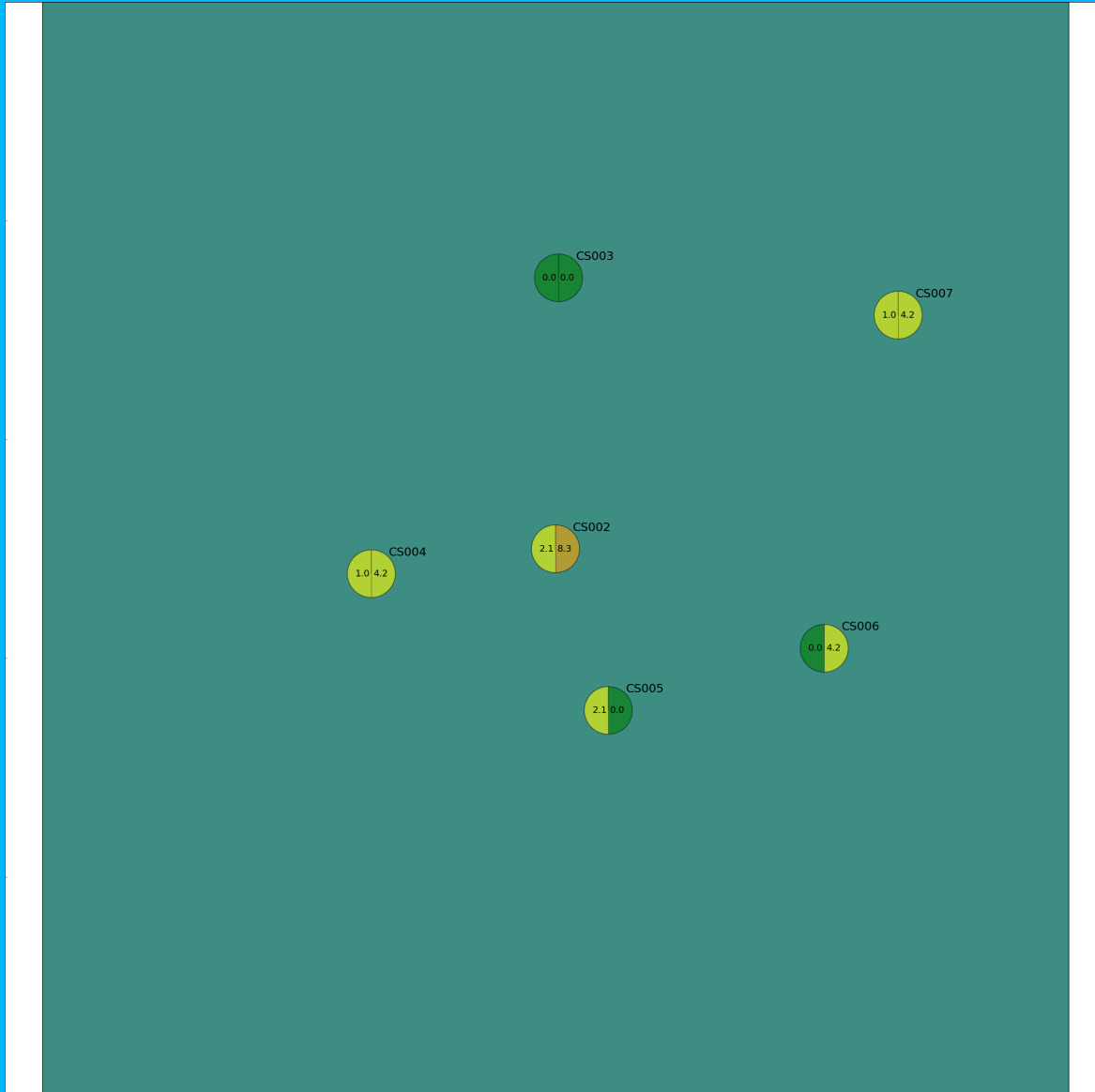
- 38 operational NL stations
  - 24 CSs, 14 RSs, 8 ISs
- Maintenance and repair of stations on-going:
  - RS503: general maintenance
  - RS406: Rubidium clock replaced
  - All Dutch stations: cabinet cleaning
- Connection problems to DE602.

Status of stations and calibration available from <http://www.astron.nl/radio-observatory/astronomers/current-status>

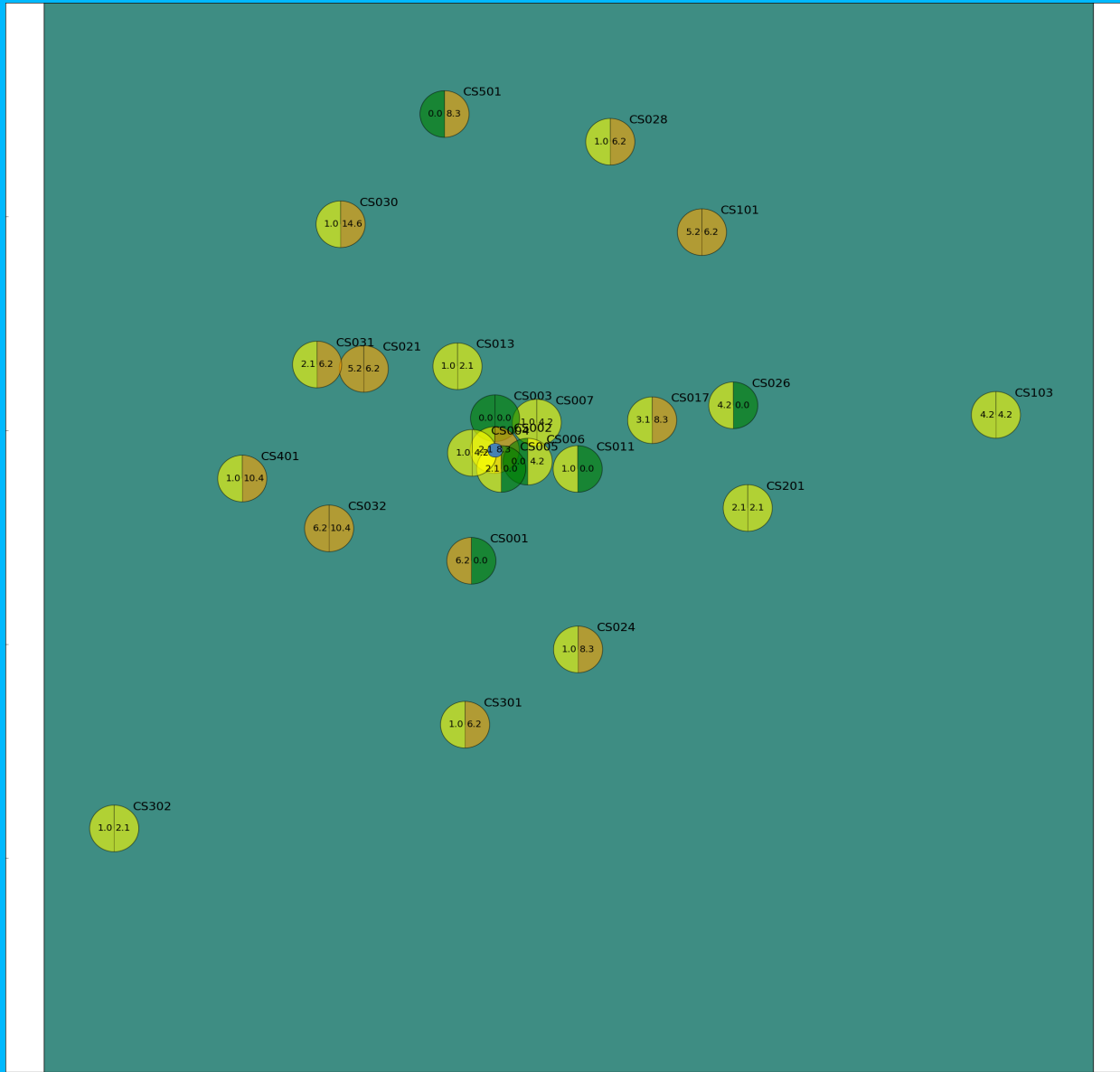
# Overview, including IS (LBA: 1.8%, HBA 3.2%)



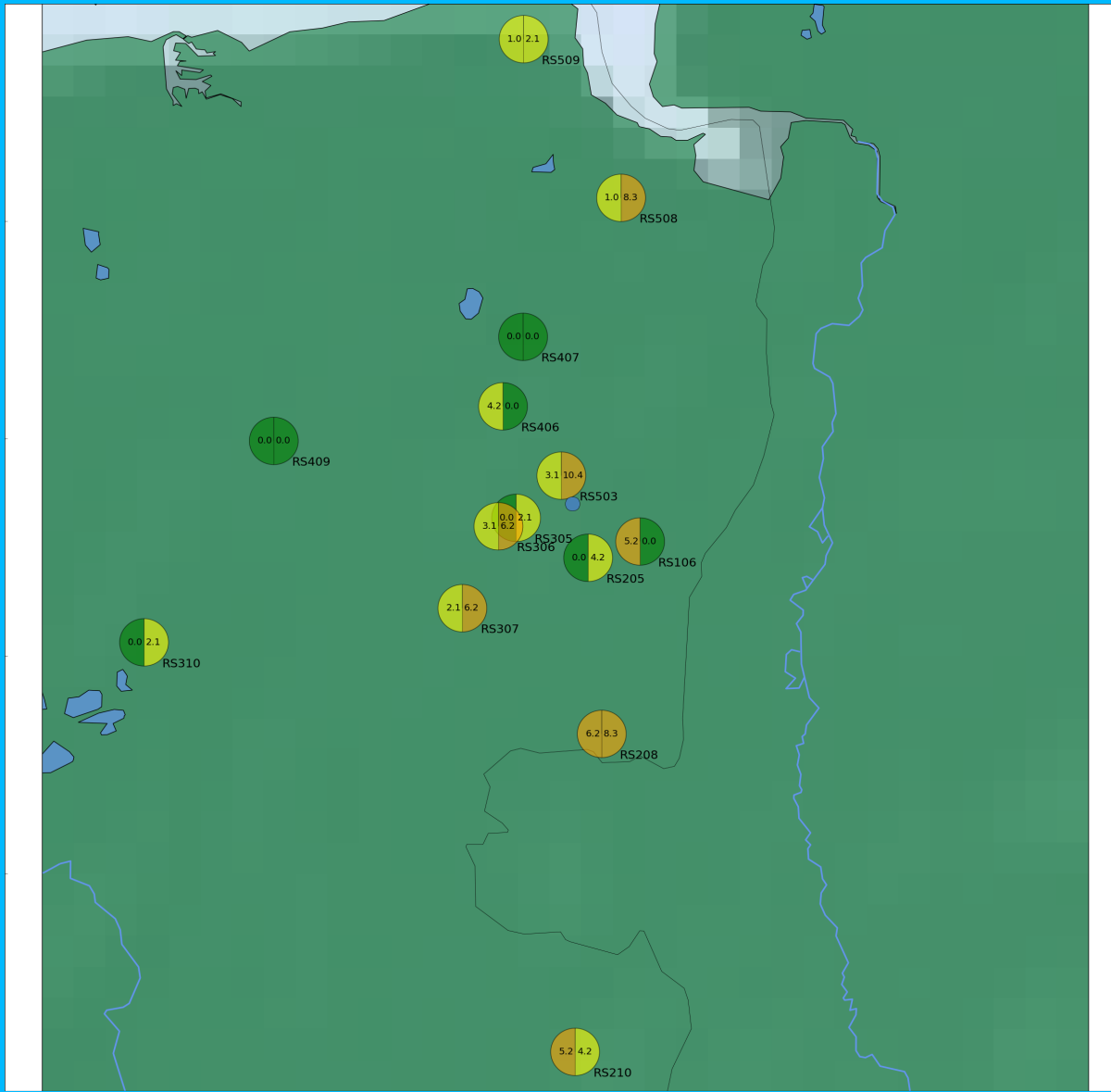
# Superterp



# Core Stations



# Remote Stations



Over the last two weeks:

- System performance: Generally good
- Observations being performed generally without issue
- No backlog of processing currently.
  - Investigation of NDPPP memory usage on-going. Memory limit imposed on processes in the meantime has meant that locus nodes are no longer hanging as a result.
- LOFAR pulsar archive is much reduced in size and data being pushed to the LTA on a regular basis.



# News regarding the observing system



- EoR observations have restarted: so far, few issues. Data being copied directly to Target once again.
- LTA performance: Data ingestion progresses with occasional interruptions to reset things. Users can also experience problems with downloading or errors when system is down.

# Cycle 2 Observations

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				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	
October	20	Mon	LC2_036 - L1407b - LBA 4.25hrs					Stress system runs + TBB runs	LC2_018 - 55 Cnc		Stress system runs + TBB runs			LT2_003 - LOTAAS				LC2_039 - J1810+1744 - 4.2hrs									LC2_036 - L1407a - 8.5hrs	
	21	Tue	LC2_036 - L1407a - HBA - 8.5hrs										LC2_018 - 55 Cnc							LC2_019 - EoR NCP								
	22	Wed	LC2_019 - EoR NCP							LC2_018 - 55 Cnc					LC2_039 - J1544+4937 - 3.4hrs													LC2_036 - L1407b - 8.5hrs
	23	Thu	LC2_036 - L1407b - HBA - 8.5hrs									LT2_003 - LOTAAS		LC2_018 - 55 Cnc							LC2_019 - EoR NCP							
	24	Fri	LC2_019 - EoR NCP											LC2_018 - 55 Cnc							LC2_026 - RAs 18-00					LC2_036 - L1407b - 4.25hrs		
	25	Sat	LC2_036 - L1407b - LBA 4.25hrs										LC2_018 - 55 Cnc								LC2_019 - EoR NCP							
	26	Sun	LC2_019 - EoR NCP									LC2_018 - 55 Cnc					LT2_003 - LOTAAS											LC2_039 - J2215+5135 - 4.9hrs
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				2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	
October	27	Mon	LT2_003 - LOTAAS						LC2_018 - 55 Cnc		SOFTWARE ROLL OUT											LC1_014 - Commissioning 24h						
	28	Tue	LC1_014 - Commissioning 24h																	LC2_019 - EoR NCP								
	29	Wed	LC2_019 - EoR NCP												LC2_018 - 55 Cnc				LC2_032 - LST 16				LC2_039 - J2051-0827 - 2.8hrs		LC2_032 - LST 22			
	30	Thu	LC2_032 - LSTs 2.7									LT2_003 - LOTAAS		LC2_018 - 55 Cnc														LC2_019 - EoR NCP
	31	Fri	LC2_019 - EoR NCP											LC2_018 - 55 Cnc								LC2_010 - Pulsar Timing						
	1	Sat		LC2_018 - 55 Cnc											LC2_026 - RAs 9-11													LC2_019 - EoR NCP
	2	Sun	LC2_019 - EoR NCP									LC2_018 - 55 Cnc				LT2_003 - LOTAAS												

Detailed Cycle 2 schedule available here:  
<https://docs.google.com/spreadsheet/pubkey=0AtnmDczhIbEtdF9TT3RnX0xOSEZ1TWtOaWdILUVIVXc&output=html>  
 Changes can be applied on daily base: in case of questions/issues contact Science Support  
**\*\*Always email sciencesupport@astron.nl and include the proposal code in the subject line\*\***

## CEP2

- In better shape with fewer constraints due to space limitations.

## CEP3

- Beta-testing period extended to end October. First users can be expected to be granted access soon after.
- Policy regulating access to CEP3 and data handling available at:  
<http://www.astron.nl/radio-observatory/observing-capabilities/depth-technical-information/cycle-1-observing-and-processing>

## CEP1 users:

- **\*\* CEP1 will be phased out very soon \*\*. BACK UP YOUR DATA ELSEWHERE OR GET IN TOUCH WITH SCIENCE SUPPORT AT [sciencesupport@astron.nl](mailto:sciencesupport@astron.nl) IF YOU WOULD LIKE TO REQUEST TRANSFER OF DATA TO CEP3 AND HAVE NOT YET DONE SO.**

# CALENDAR of requested busy weeks and other LOFAR activities



- Next Stop Day: Tuesday 4<sup>th</sup> November
- Next LSM: Wednesday 28<sup>th</sup> October
- LOFAR Data School: 17-21 November
- Imaging Busy Week: 1-5 December, ASTRON
- LOFAR news email list:  
<http://www.astron.nl/radio-observatory/subscribe-lofar-news/subscribe-lofar-news>