Programme:

1. *Array status – H. Munk*
2. *Observatory update – R. Fallows*
3. *MSSS update – G. Heald*
5. *Atomic hydrogen at z > 5 – L. Gurvits*
6. *Low-frequency investigation of the Super-CLASS super-cluster – C. Riseley*

Array Status

- 38 operational NL stations
  - 24 CSs
  - 14 RSs
- 8 ISs

- Superterp+CS001: all TDS-boards exchanged: should solve overheating prob's
- RS210: RSP problems: under investigation
- DE603: Clock problems solved
- DE604: broken airco
- UK608: one broken RSP board
- Storm damage NL-stations LBAs to be repaired, req's for quotations send out
  - CS021: 1 LBA, CS201: 1 LBA, CS501: 1 LBA, RS508: 22

Network, CEP Status

Network
- RS210: network provider problems
- DE607: network provider problems

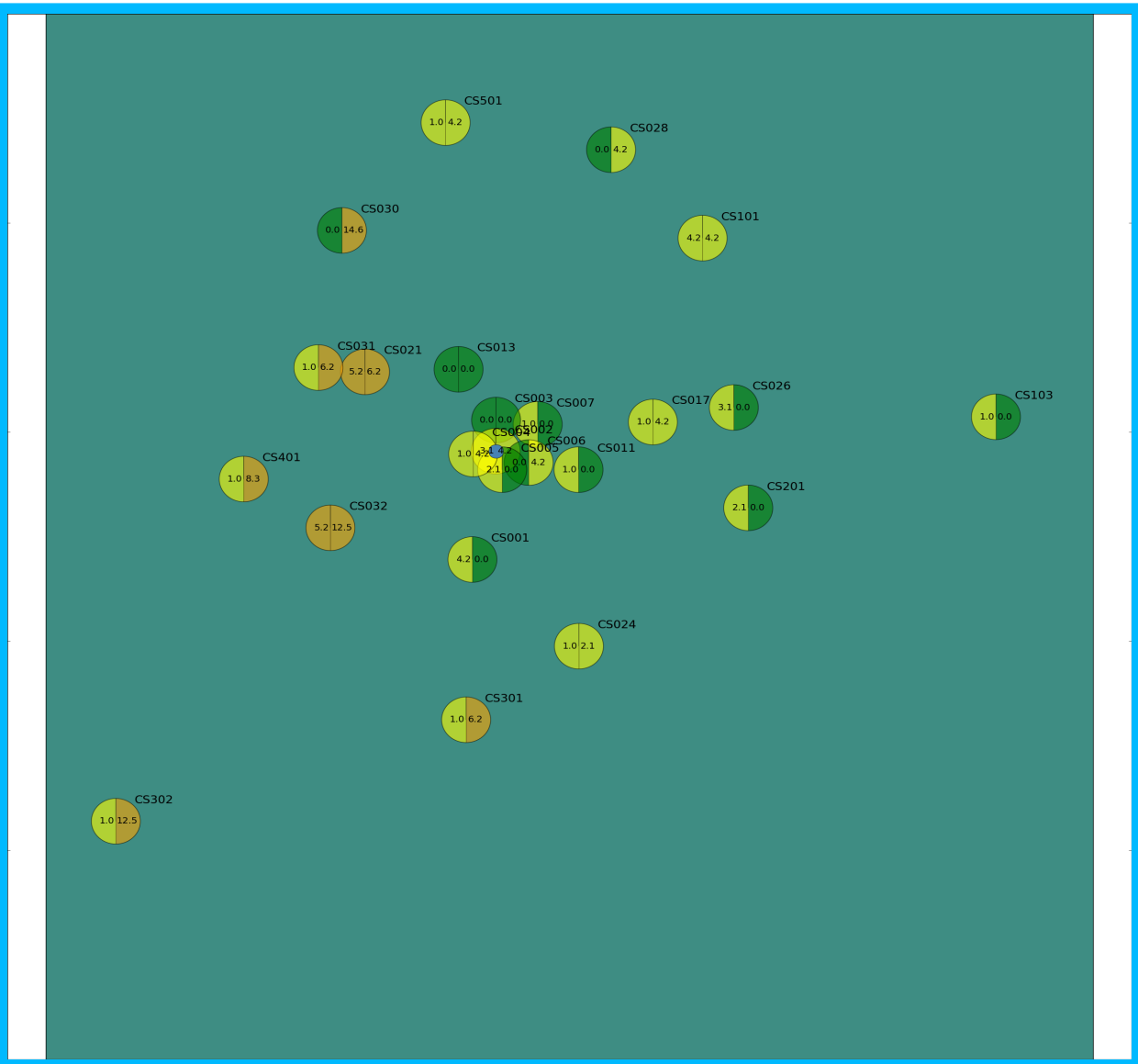
BG/P
- Nominal
- Note that we cannot use R01 anymore (Cobalt)

Cobalt
- First fringes November 1

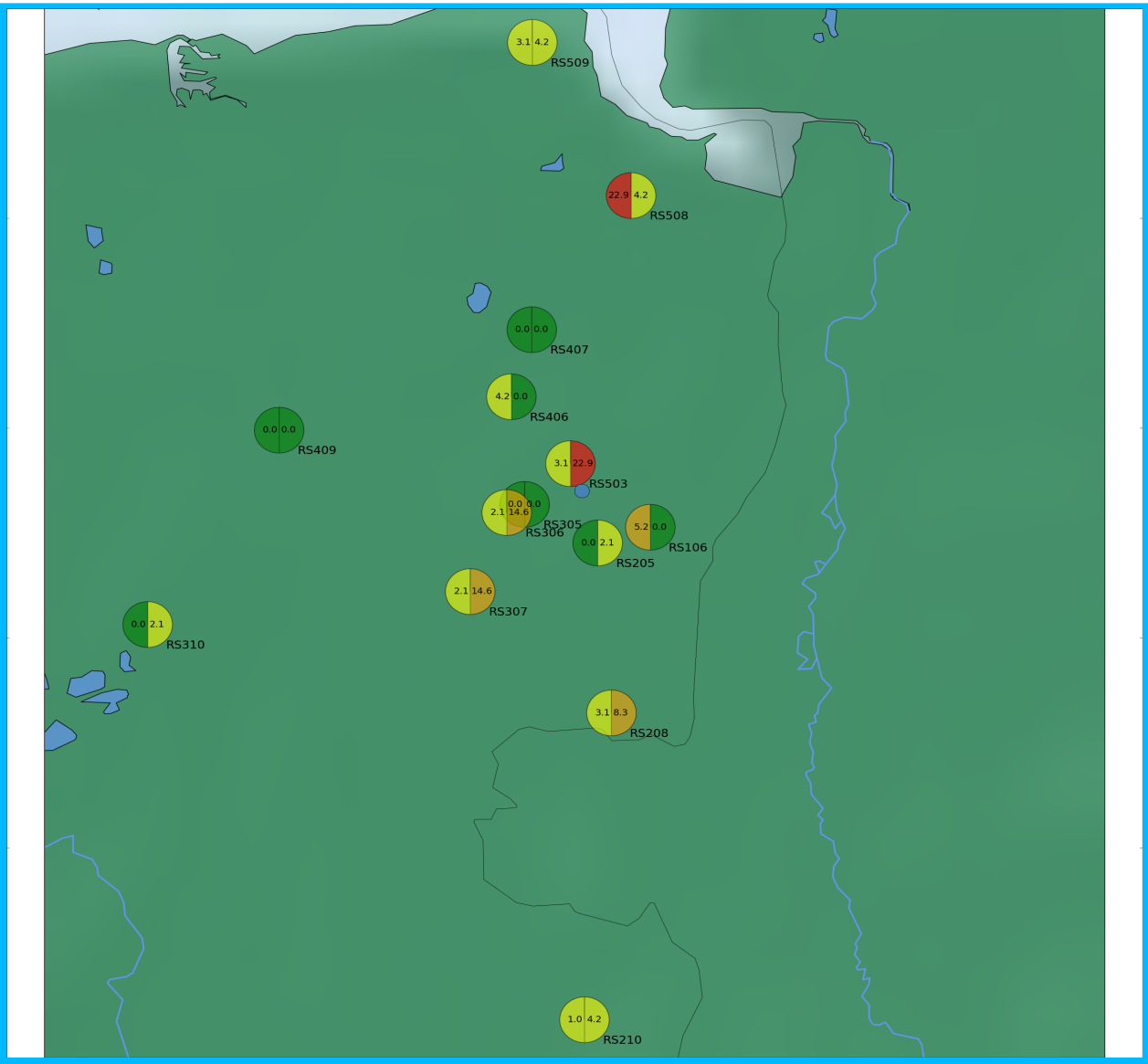
CEP-I/II(/III)
- CEP-II: locus44 two broken disks: 14 TB recovered, 10 lost?
- CEP-III: order placed
    - 24 nodes, CPU-only nodes

Next stopday
- December 3

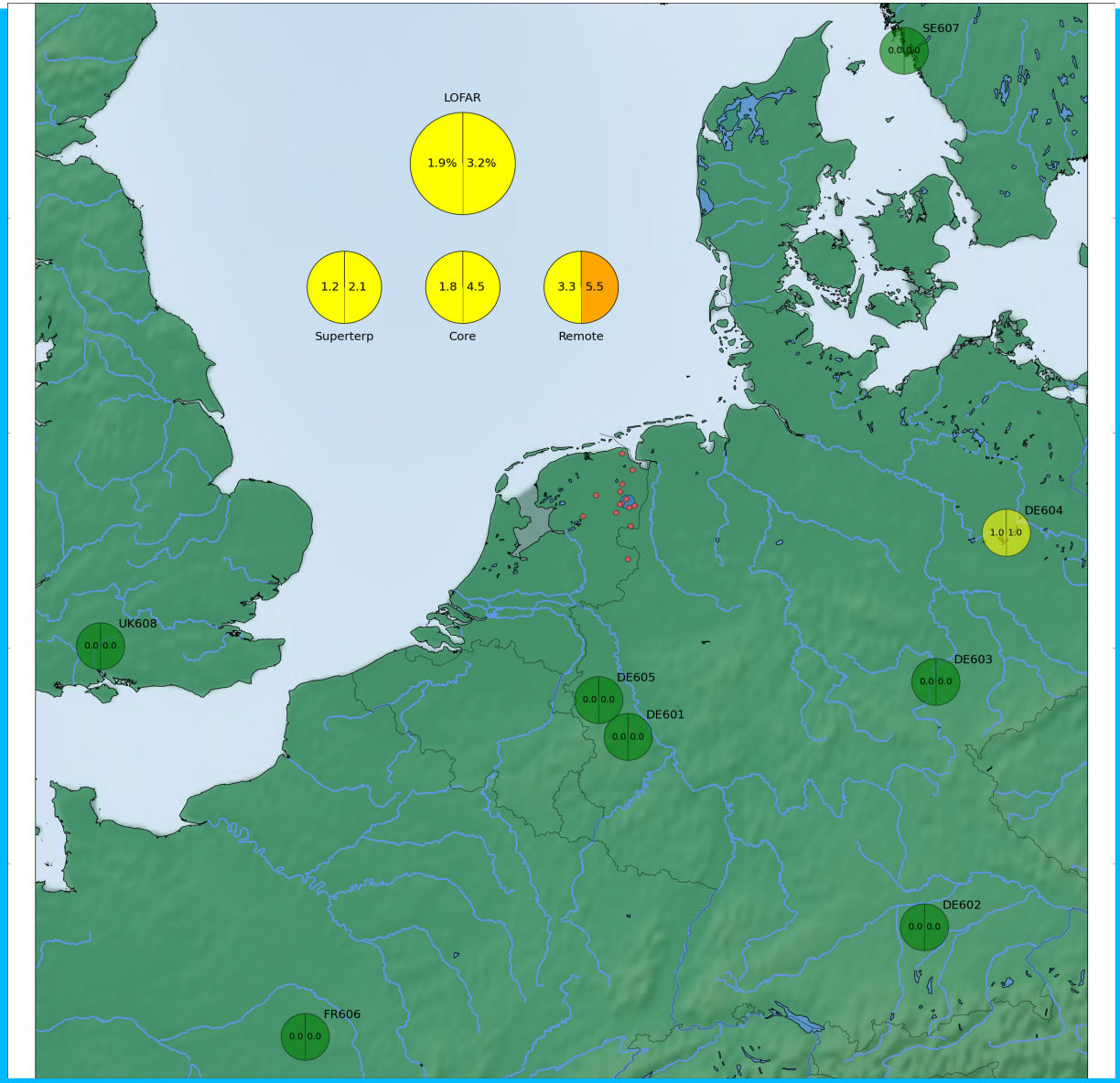
Superterp and Core



Remote


3.1 4.2
RS509
22.9 4.2
RS508
0.0 0.0
RS407
4.2 0.0
RS406
0.0 0.0
RS409
3.1 22.9
RS503
2.1 14.6
0.0 0.0
RS305
RS306
5.2 0.0
RS106
0.0 2.1
RS205
2.1 14.6
RS307
0.0 2.1
RS310
3.1 8.3
RS208
1.0 4.2
RS210

International



News regarding the observing system: Calibration

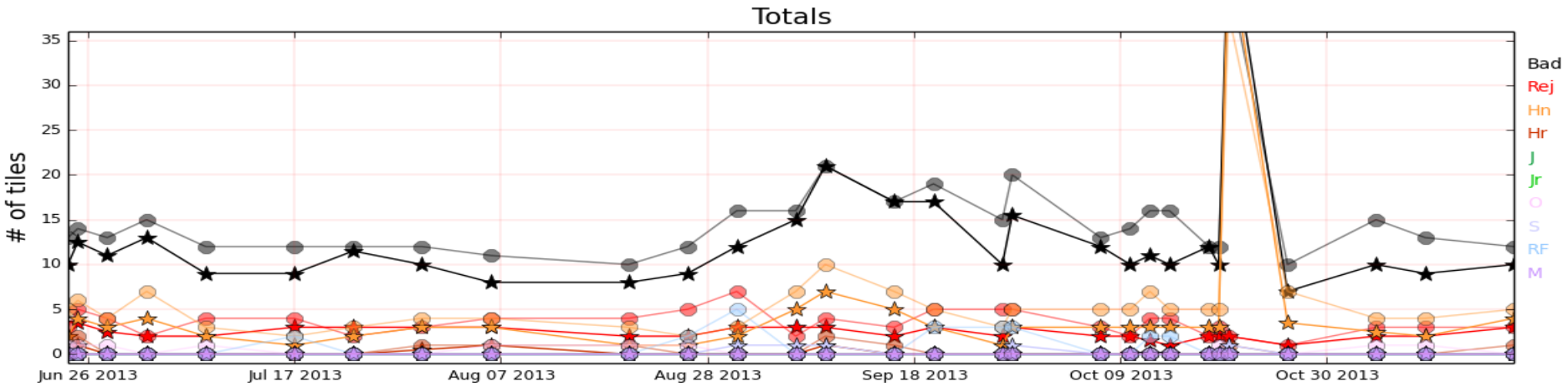
- Station calibration:
  - No further news
    - ✓ Remote stations: mode 3, 5 & 7 installed
    - ✓ Core stations to follow next
    - ✓ Improved station calibration
      - more automated
      - handed over to operators
- Updated status available at:

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

News regarding the observing system: Stability and performance

- Overall stability is good:
  - Observations are stable, few station failures
  - Pipelines are stable, occasional swapping from too many processes

News regarding the observing system: LOFAR Status



- Issues:
  - Degradation of HBA tiles
    - Slight modifications to optimise station tests
    - New tiles are identified and maintenance performed as necessary
  - Live station test in progress

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

News regarding the observing system: Updates, issues and tests

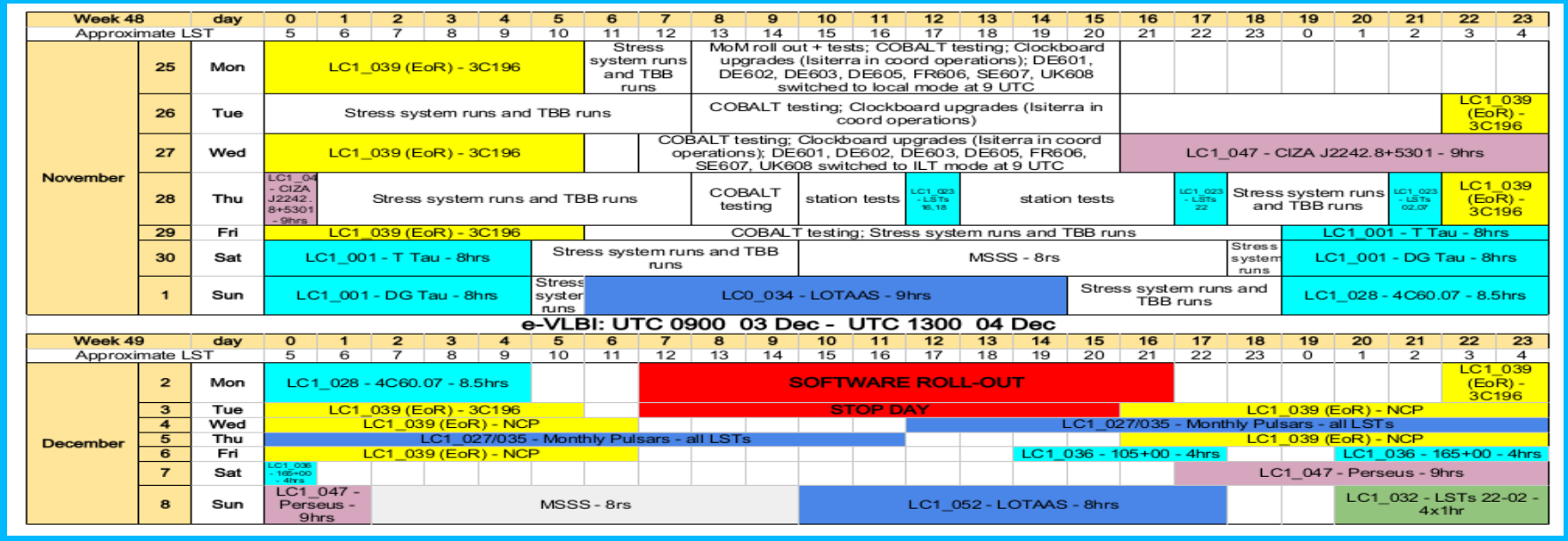
- Development:
  - Next software rollout: LOFAR release 1.18 Monday 2nd December.
  - Cycle 1 and COBALT:
    - Beamformed+interferometer mode including pipelines and ingest
    - XML generator, PVSS/Navigator, MoM, pipelines all on-going

News regarding the observing system: Archive

- Raw and processed data ingestion on-going.
- Now possible to copy processed pulsar data to LTA, but available only as 'unspecified' and with no meta-data.
- Issues:
  - Data may be in LTA labelled as 'Unspecified'
  - Some meta-data may be incomplete or incorrect
  - Jűlich server is under maintenance this week
  - Target is down until further notice, impacting on EoR observations
- LTA database and UI unavailable for scheduled maintenance on 10th December.

Cycle Observations

https://www.astron.nl/radio-observatory/lofar/cycle-1-schedule/cycle-1-schedule



Week 48		day	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			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4
November	25	Mon	LC1_039 (EoR) - 3C196						Stress system runs and TBB runs		MoM roll out + tests; COBALT testing; Clockboard upgrades (Isiterra in coord operations); DE601, DE602, DE603, DE605, FR606, SE607, UK608 switched to local mode at 9 UTC															
	26	Tue	Stress system runs and TBB runs								COBALT testing; Clockboard upgrades (Isiterra in coord operations)														LC1_039 (EoR) - 3C196	
	27	Wed	LC1_039 (EoR) - 3C196							COBALT testing; Clockboard upgrades (Isiterra in coord operations); DE601, DE602, DE603, DE605, FR606, SE607, UK608 switched to ILT mode at 9 UTC								LC1_047 - CIZA J2242.8+5301 - 9hrs							
	28	Thu	LC1_04 - CIZA J2242.8+5301 - 9hrs	Stress system runs and TBB runs							COBALT testing	station tests	LC1_023 - LSTs 16,18	station tests					LC1_023 - LSTs 22	Stress system runs and TBB runs		LC1_023 - LSTs 02,07	LC1_039 (EoR) - 3C196			
	29	Fri	LC1_039 (EoR) - 3C196						COBALT testing; Stress system runs and TBB runs													LC1_001 - T Tau - 8hrs				
	30	Sat	LC1_001 - T Tau - 8hrs					Stress system runs and TBB runs					MSSS - 8rs								Stress system runs	LC1_001 - DG Tau - 8hrs				
	1	Sun	LC1_001 - DG Tau - 8hrs					Stress system runs	LC0_034 - LOTAAS - 9hrs									Stress system runs and TBB runs				LC1_028 - 4C60.07 - 8.5hrs				

e-VLBI: UTC 0900 03 Dec - UTC 1300 04 Dec

Week 49		day	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			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4
December	2	Mon	LC1_028 - 4C60.07 - 8.5hrs							SOFTWARE ROLL-OUT															LC1_039 (EoR) - 3C196	
	3	Tue	LC1_039 (EoR) - 3C196							STOP DAY									LC1_039 (EoR) - NCP							
	4	Wed	LC1_039 (EoR) - NCP												LC1_027/035 - Monthly Pulsars - all LSTs											
	5	Thu	LC1_027/035 - Monthly Pulsars - all LSTs																		LC1_039 (EoR) - NCP					
	6	Fri	LC1_039 (EoR) - NCP														LC1_036 - 105+00 - 4hrs								LC1_036 - 165+00 - 4hrs	
	7	Sat	LC1_036 - 165+00 - 4hrs																	LC1_047 - Perseus - 9hrs						
	8	Sun	LC1_047 - Perseus - 9hrs				MSSS - 8rs							LC1_052 - LOTAAS - 8hrs										LC1_032 - LSTs 22-02 - 4x1hr		

- Cycle 1 is underway; remaining Cycle 0 observations also scheduled.
- Contact Science Support in case of issues.
- **** Always cc sciencesupport@astron.nl and include the proposal code in the subject line ****

CEP News

- CEP2 very full due to backlog of data to ingest to the LTA.
  - EoR and pulsar observations on hold until data levels on CEP2 can be reduced.
- CEP1: Degrading...
  - **Backup your data elsewhere!**
  - Staging areas cleared every week: Data may remain there for up to four weeks only.
- Stop day: Minimal maintenance planned.

CALENDAR of requested busy weeks and other LOFAR activities

http://www.astron.nl/radio-observatory/astronomers/commissioning/commisioning-plan

- Next LSM: 11th December
- Next Stop Day: Tuesday 3rd December
- LTA UI maintenance: Tuesday 10th December