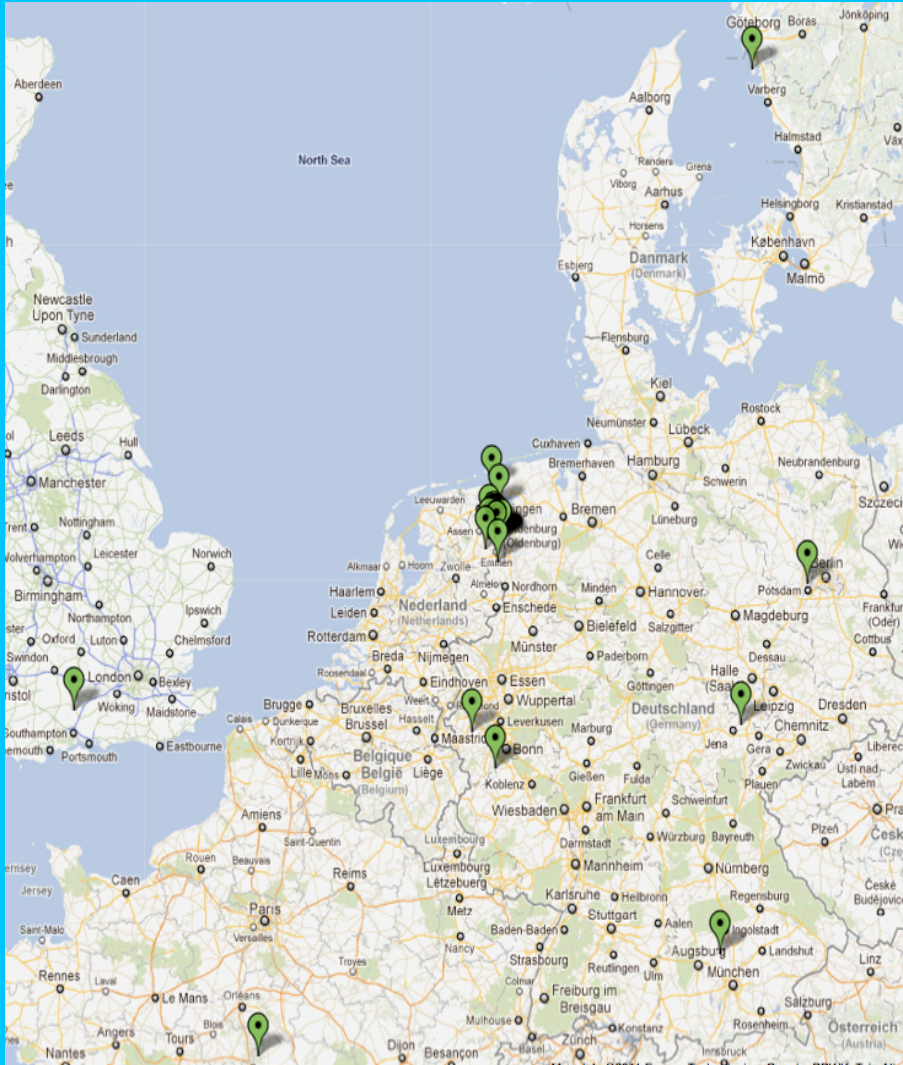


Programme

- 1) Array status – Harm Munk
- 2) Observatory update – Wilfred Frieswijk
- 3) COBALT update – Ronald Nijboer
- 4) Applying direction independent calibration in NDPPP
– Tammo Jan Dijkema
- 5) Update on LC0 Pulsars projects – Jason Hessels

Array Status



Current Status:

- 38 operational NL stations
- 24 CSs
- 14 RSs
- 8 ISs
- NL stations TBB memory upgrade installation RS started: 11 done, 3 to go (in combination with cabinet cleaning)
- SE607 maintenance done

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

Network, CEP Status



Network

- Connection to RS210 still erratic

BG/P

- Stop day October 1st: no problems

Cobalt

- Network (infiniband) drivers upgraded

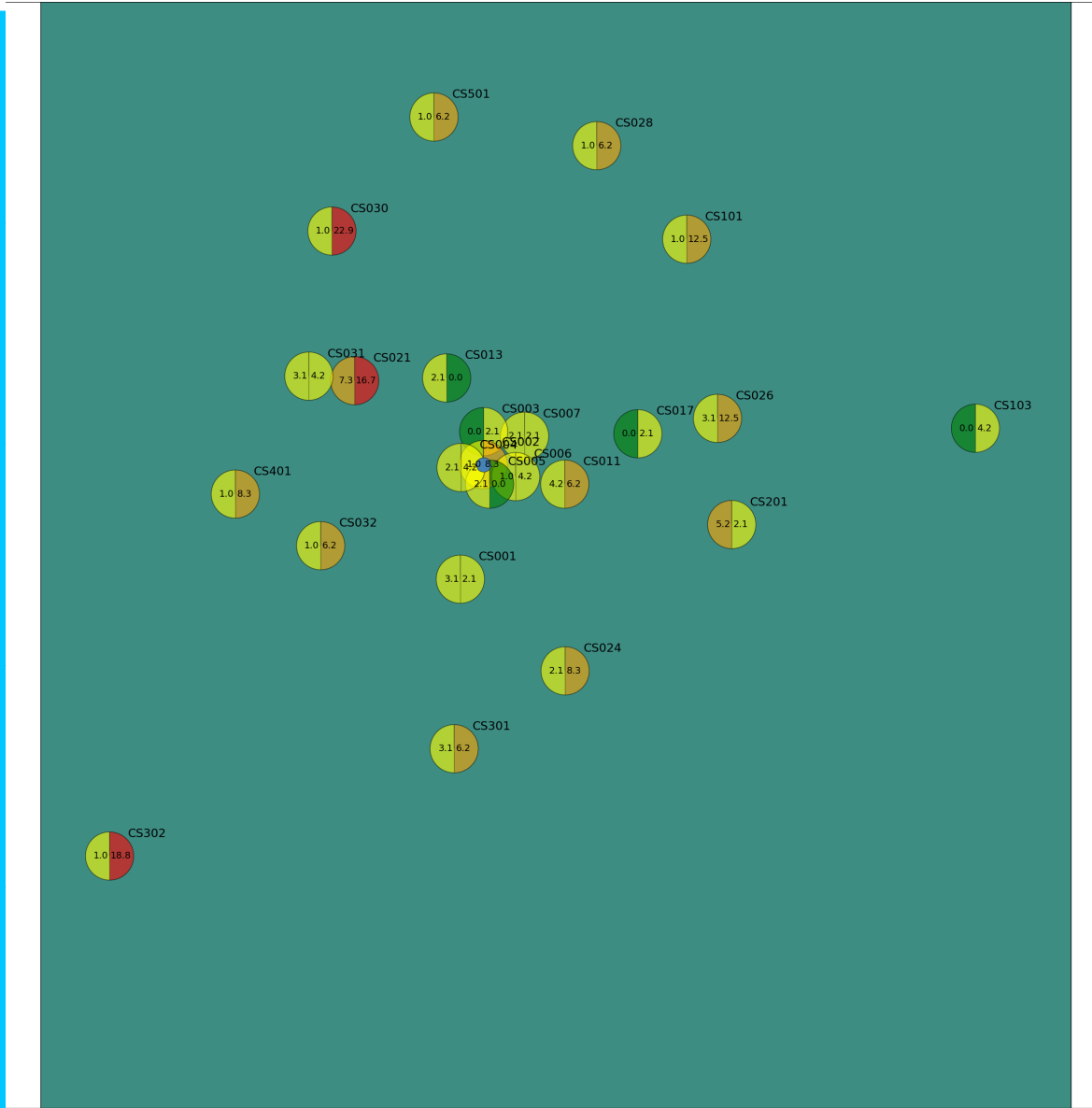
CEP-I/II(/III)

- We noticed an unusual number of broken PS on CEP-I: are being refurbished
- CEP-I: One LCE node (LCE044) broken: end of life
- CEP-II: no major problems

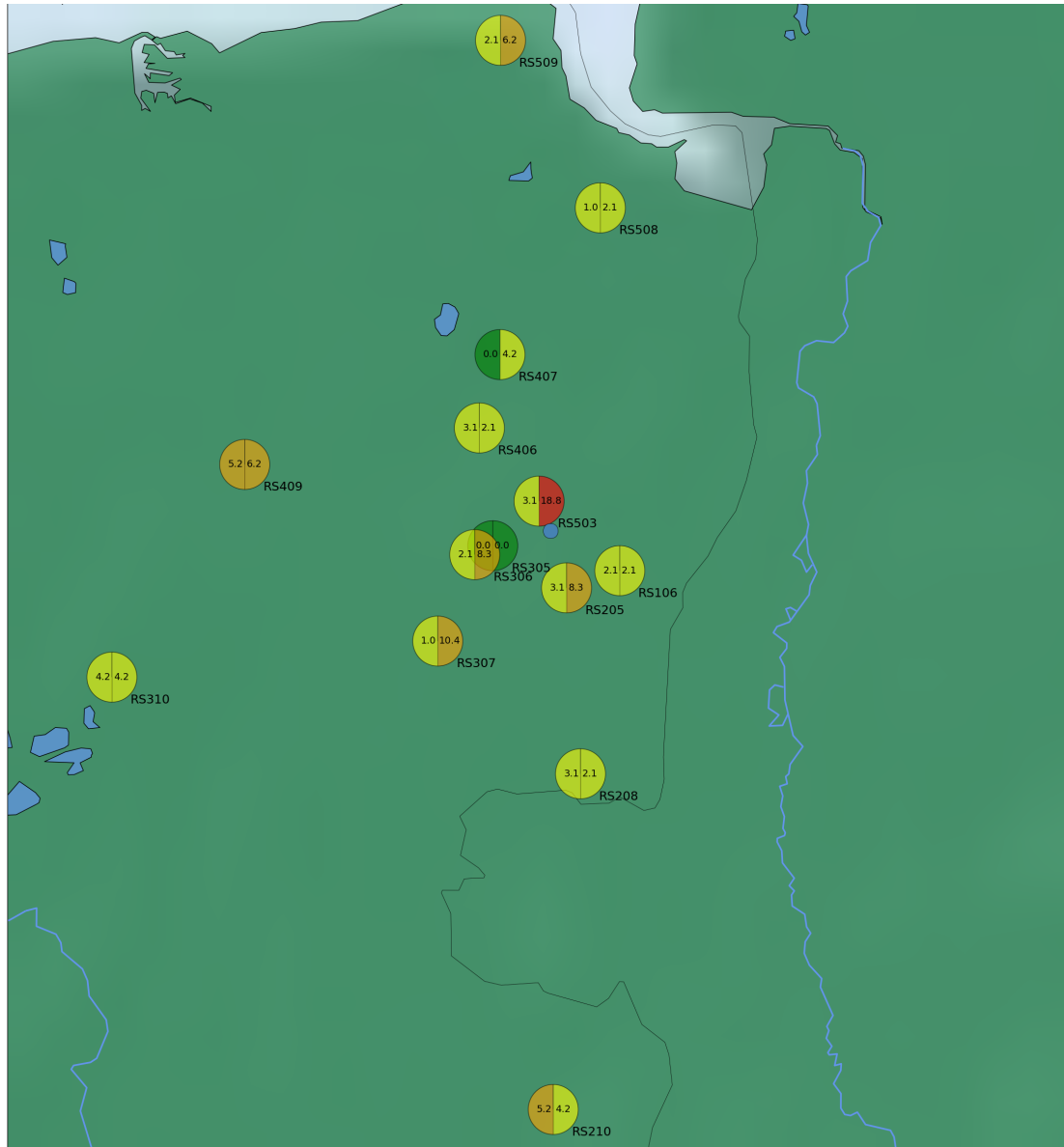
Next stopday

- November 5

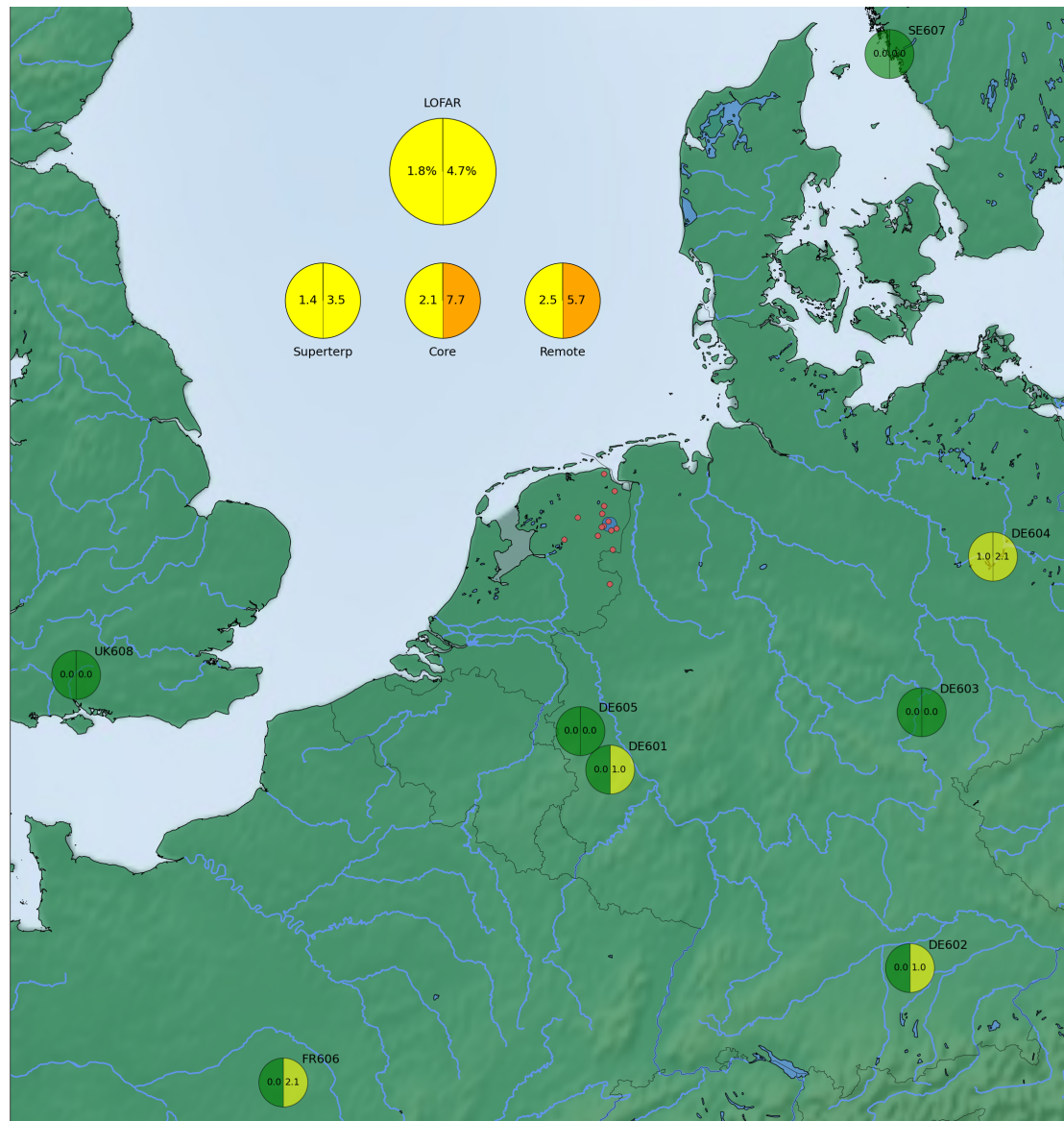
Core



Remote stations



International Stations



News regarding the observing system

Station calibration

- Station calibration:
 - ✓ Improved station test now available
 - more automated
 - will be implemented after testing
 - ✓ International stations: mode 3 & 5 installed tomorrow
 - ✓ Remote stations: mode 1 & 3 to be installed soon
- Updated status available at:
 - * <http://www.astron.nl/radio-observatory/astronomers/current-status>

News regarding the observing system

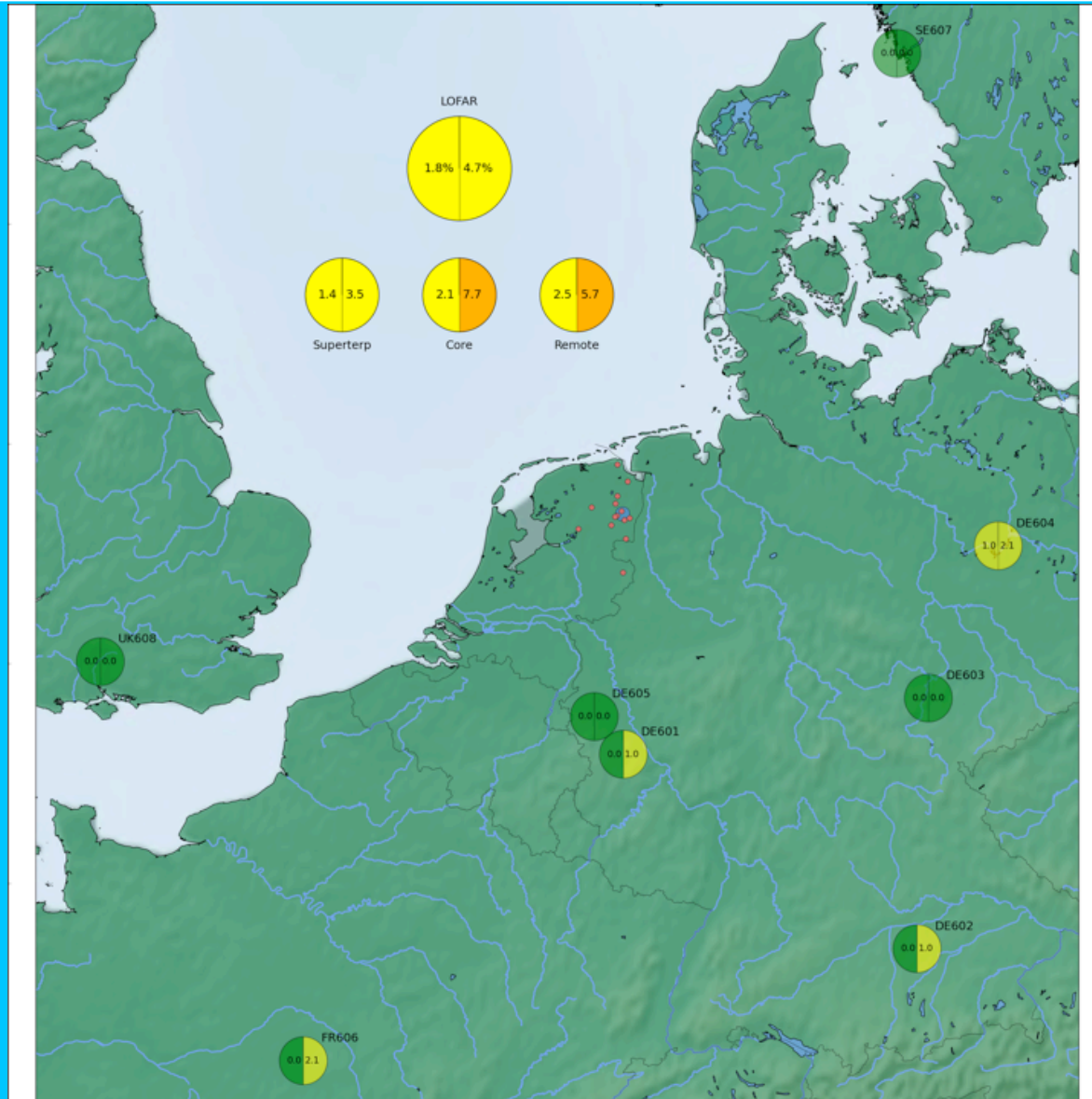
Stability & performance

- Overall stability is ok
 - ✓ Observations stable (for the past few days)
 - ✓ Pipelines stable -- occasional swapping, too many processes
- Issues
 - ✓ Network reconfiguration
 - bandwidth issues due to optimization mostly solved
 - occasional hiccup detected
 - ✓ Station failures
 - CS005 (AARTFAAC), RS307 (flagging), RS210 (RSP), RS305/310 (TBB)
 - ✓ Oscillation and noise on HBA tiles
 - ongoing monitoring campaign (station tests)
 - new tiles are identified (weather sensitive)
 - maintenance to keep a stable situation (<10%)



News regarding the observing system LOFAR status

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



News regarding the observing system: Updates, issues, tests



- Development

- ✓ Rollout: LOFAR Release 1.17

- International stations follow tomorrow

- ✓ next rollout Nov 4th

- ✓ Preparation of cycle 1 and Cobalt

- XML generator, PVSS/Navigator, MoM, pipelines

News regarding the observing system: Archive

- Raw/processed data ingest to LTA (LC0, DDT0) is ongoing
 - * Data may arrive in LTA as “unspecified”
 - * Incomplete/-correct metadata
- LC019 data transfer to Target cluster
 - * Delayed due to several issues

News regarding Cycle 0 observations



- Cycle 0 >85% done
- Detailed schedule, including Cycle 0 extension;
 - * contact science support in case of issues
 - ***ALWAYS*** include sciencesupport@astron.nl
 - and ***ALWAYS*** put project code in subject

Week number	week 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
There will be an outage on the UK608 Chilbolton 10GbE Lightpath at approximately 10.30 BST on Tuesday 1st October. SUGgestion to test Lightpath during the day; Oct 3, 15 UTC DE601 to local mode; Oct 6, 11 UT- DE601 to ILT mode																									
40, 30th September	Mon	LC0_009 - 3C9 - 6hrs			Station test			ROLL OUT SOFTWARE COBALT; DE601, DE602, DE603, DE605, FR606, SE607, UK608 to local mode at 9 UT						DDT_006 (B1822-09 with WSRT) - 8 hrs				MSSS - 8hrs							
	Tue	MSSS - 8hrs			STOP DAY						LC0_019 (EoR) 11.5h NCP														
	Wed	LC0_019 (EoR) 11.5h NCP			SYSTEM RECOVERY; DE601, DE602, DE603, DE605, FR606, SE607, UK608 to ILT mode at 9 UTC						Pulsars														
	Thu	Pulsars			SYSTEM RECOVERY + AARTFAAC tests (1 hr); DE601 to local mode at 15 UTC						LC0_019 (EoR) 11.5h NCP														
	Fri	LC0_019 (EoR) 11.5h NCP			SYSTEM RECOVERY						MSSS - 8hrs														
	Sat	Stress system runs and TBB runs	LC0_040 - J0332+5434 - 2hrs	LC0_003 - PanSTARRS	Pulsars + stress system runs						Stress system runs and TBB runs	LC0_028 - Cygnus A - 4hrs				Stress system runs and TBB runs									
	Sun	Stress system runs and TBB runs	Pulsars; stress system runs; DE601 to ILT mode at 11 UTC						DDT_006 (B1822-09 with WSRT) - 7 hrs				Stress system runs and TBB runs												

<https://www.astron.nl/radio-observatory/lofar/cycle-0-schedule/cycle-0-schedule>

CEP news: Stop-day October 1

- Cep-2: fairly stable
- Cep-1: degrading
 - * Backup data elsewhere!
 - * Staging areas cleared every week (data > 4 weeks)
- Stop-day: minor maintenance
 - BGP diagnostics & updates & reboots okay
 - All 10 portals updated and rebooted
 - All central services lcs020-lcs029 updated and rebooted
 - All mcu0xx,ccu0xx and sas0xxx rebooted
 - Lfe001,lfe002 rebooted
 - All lce nodes rebooted
 - All lse nodes rebooted
 - Ldb001,ldb002 untouched
 - Lexar002 rebooted
 - Lcs017 broken power supply replaced
 - Lce044 Mainboard broken (End Of Life)
 - Lse002, lse004, lse011 /etc/fstab bad /data2 entry
 - Cobalt nodes received latest version of Infiniband drivers
 - All CEP2 locus nodes and head nodes are rebooted
 - The 4 router pc's are rebooted
 - Fan3 of locus018 has been repaired
 - Fan speed set to generic on all the remaining locus nodes
 - Locus013 opened to assess the hot Areca card problem
 - Former Lofar office has a new lock on its door L

http://www.lofar.org/wiki/doku.php?id=engineering:stopday_procedure

CALENDAR of requested busy weeks and other LOFAR activities

- Commissioning

- ✓ <http://www.astron.nl/radio-observatory/astronomers/commissioning/commissioning-plan>

- Cycle 0

- ✓ <http://www.lofar.org/wiki/doku.php?id=operator:schedule>

7-11	Oct	Imaging busy week (Hamburg)
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5	Nov	CEP stop-day
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