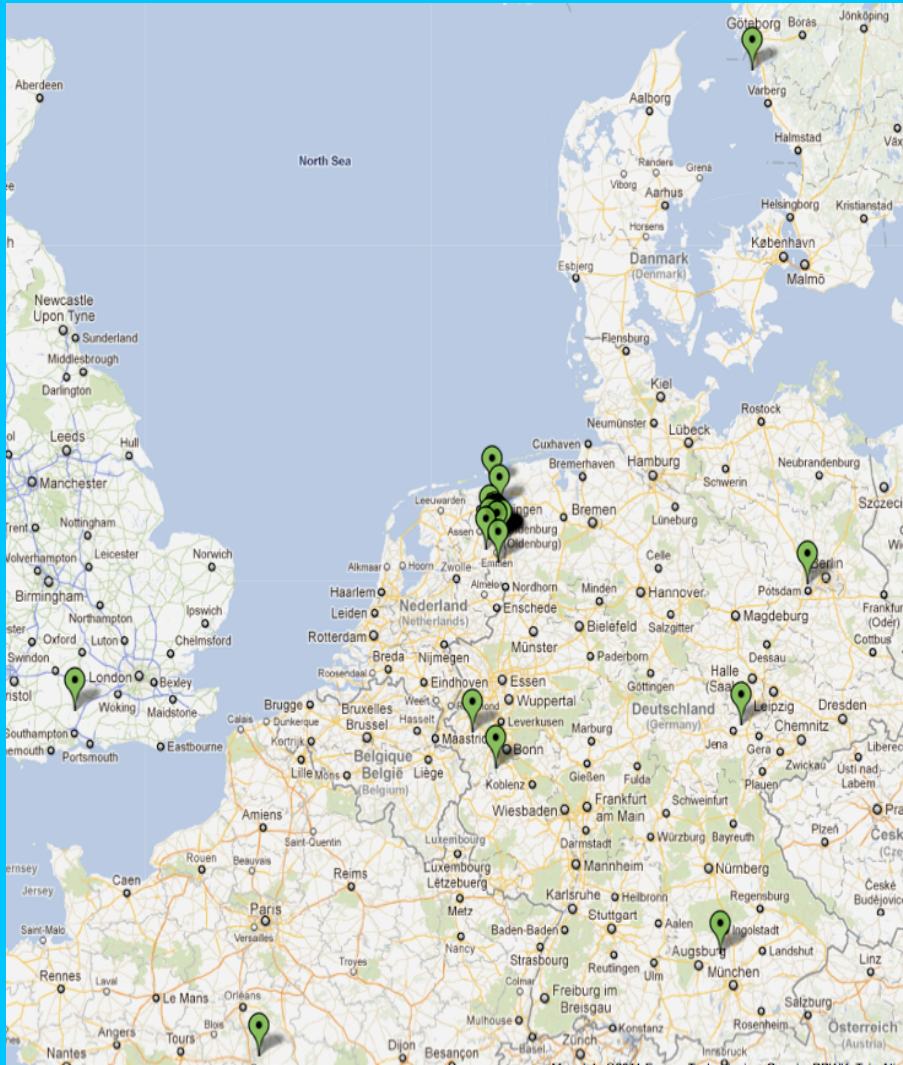


## Programme:

- 1. Array status – H. Munk*
- 2. Observatory update – R. Pizzo*
- 3. LTA update – H. Holties*
- 4. LC0 and LC1 Pulsar projects: progress report – J. Hessels*
- 5. EoR project: progress report – G. de Bruyn*

# Array Status



- 38 operational NL stations
  - 24 CSs
  - 14 RSs
- 8 ISs
- TDS-boards on RSs to be exchanged, CSs done: should solve overheating problems
- CS001: TBB problems: power supply exchanged, problem persists
- RS210: RSP problems: tracked down to power supply
- DE601: high backplane temperature, reason unknown: Effelsberg has been contacted. Cause not found. Being monitored
- DE602: runaway clock

# Network, CEP Status



## Network

- CS032, CS006: broken link, repaired

## BG/P

- Nominal
- I/O problem during combined interferometric and tied array observations, under investigation

## Cobalt

- Minor issues during updates

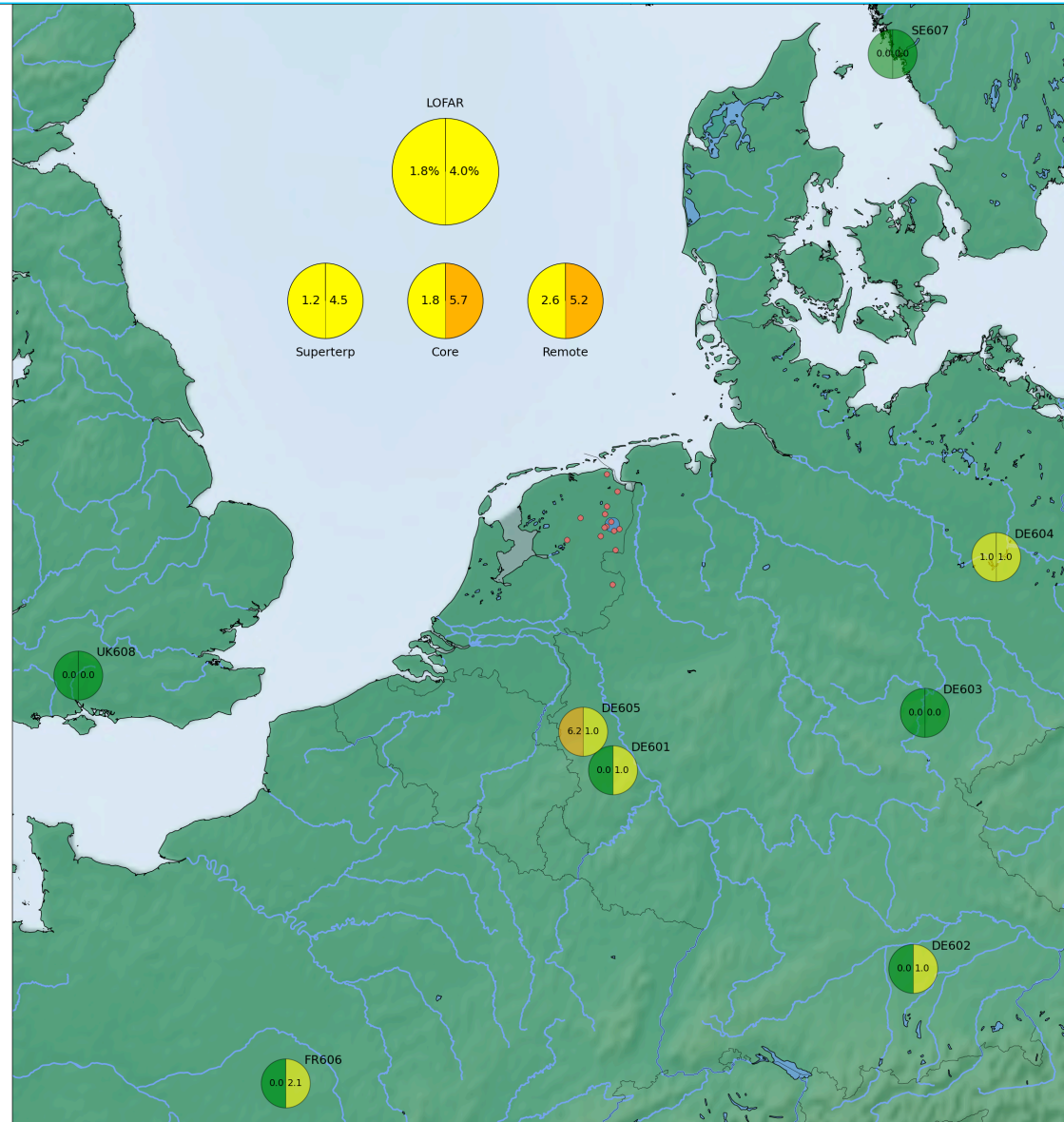
## CEP-I/II(/III)

- CEP-II: locus51 bad memory module repaired, disk cable errors on locus51,79,81 corrected
- monetDB update in progress
- All Dutch station's LCUs rebooted: solved problems on CS103 and RS106
  
- CEP-III
  - equipment has arrived, installation ongoing

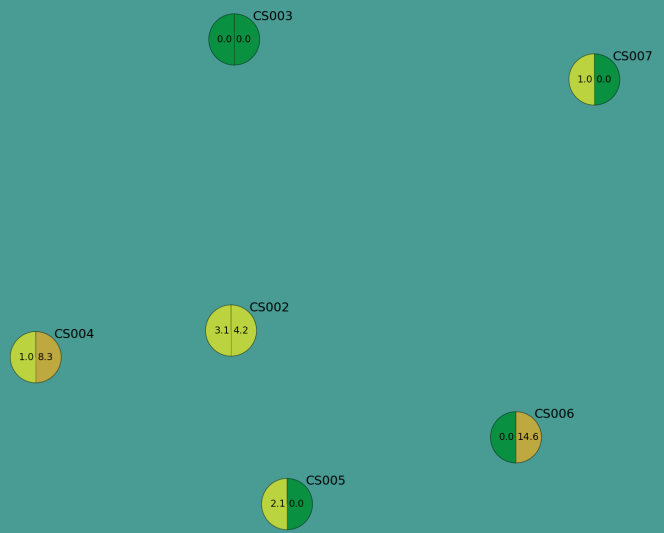
## Next stop day

- February 4, 2014

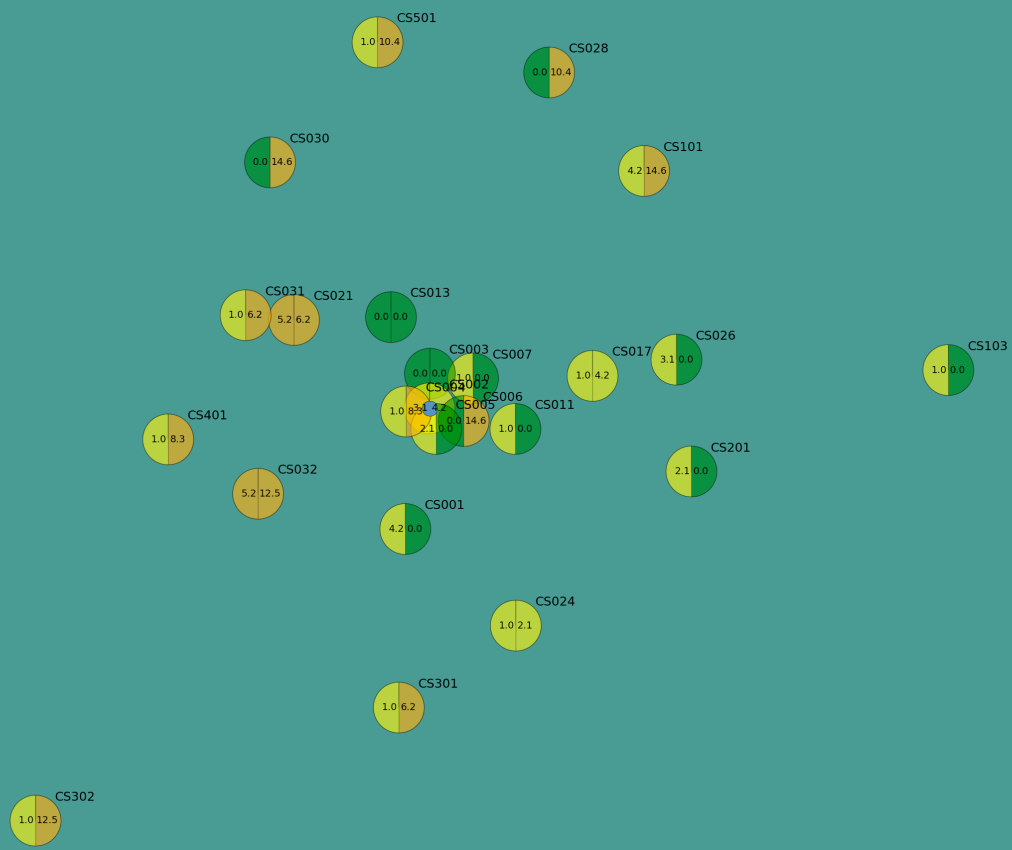
# Overview, including IS



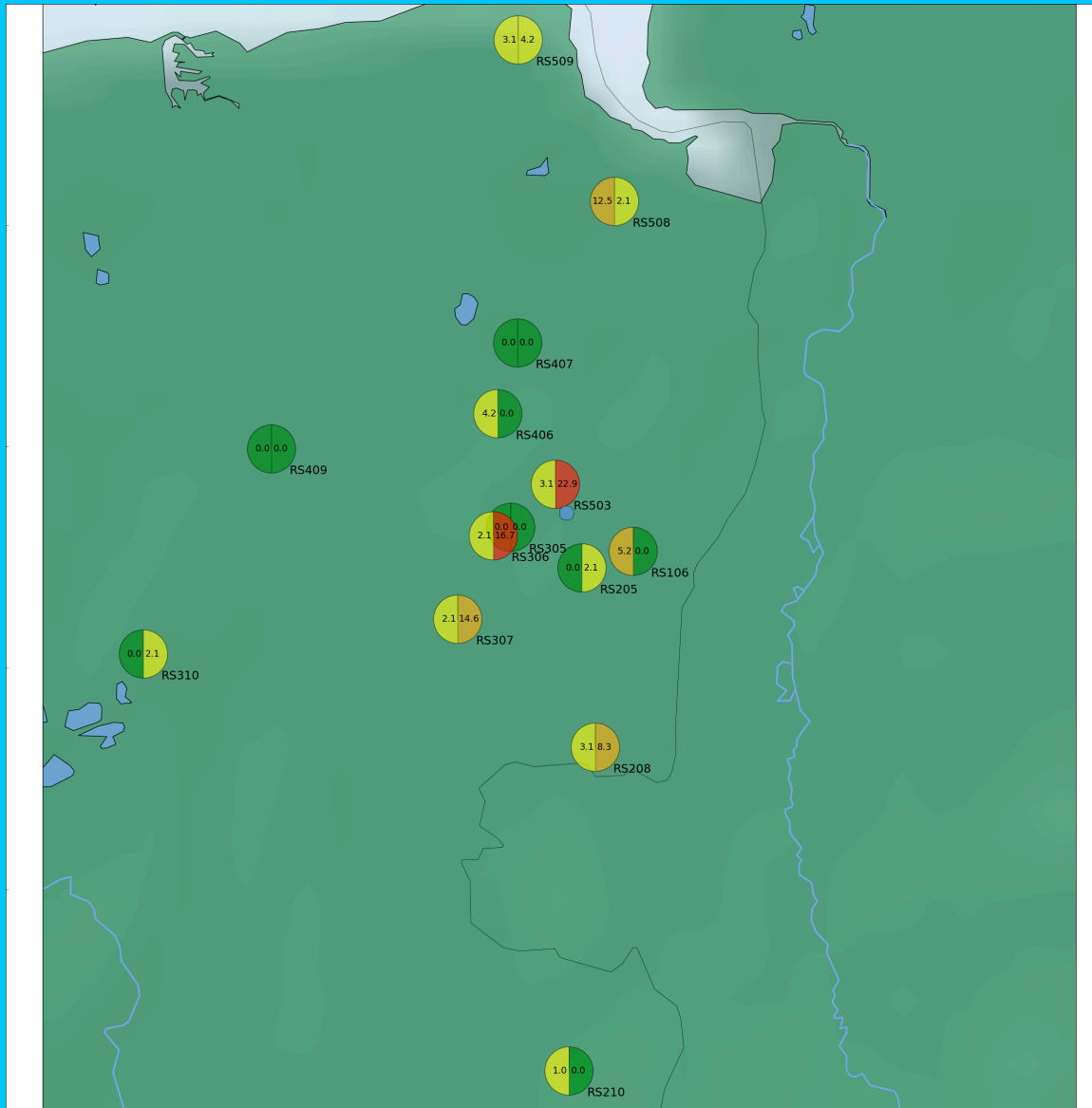
# Superterp



# Core Stations



# Remote Stations



## News regarding the observing system: Stability & performance

- Observations generally stable during the Christmas period (EoR + TBB +LOTAAS)
- Failures experienced again with LC1\_036 (IM+BF), which causes the system to crash
- Pipelines (calibrator, target, pre-processing) are stable, in general. But some of them take much longer than expected. Not yet clear if this is due to particular conditions on some nodes
- Swapping on some nodes from too many processes



## News regarding the observing system : Archive

- Delays in the ingestion of raw data and pipeline data products because of instability of the LTA
- Ingest system needed to be restarted a few times during the last two weeks
- Data removal from CEP2 was slow
- TARGET is now bypassed - EoR data go from CEP2 directly to the EoR cluster. The processing results are eventually stored at SARA. 3C196 runs proceeding fine. NCP – on hold because of problems with the EoR-SARA connection
- Pulsars data being transferred to the LTA through a manual script
- More in Hanno's talk

# COBALT



- Tested further during the last two weeks
- Severe issues in closing the test observations
- LTA feedback did not make it into the final product
- Not yet adopted in production

# News regarding Cycle 1 observations



Week 2	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		7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6
January	6	Mon	LC0_043 M82/81 repetition				Stress system runs and TBB runs		COBALT testing								Stress system runs and TBB runs		LC1_036 - 165+00 - 4hrs						
	7	Tue	Stress system runs and TBB runs		DDT1_002 5 hrs repeat			Stress system runs and TBB runs		STOP DAY								LC1_039 (EoR) - NCP							
	8	Wed	LC1_039 (EoR) - NCP					COBALT TESTING		LC1_027		LC1_023 - 88435 - 2x0.5hrs		LC1_027/035 - Monthly Pulsars - all LSTs + COBALT TESTING											
	9	Thu	LC1_027/035 - Monthly Pulsars - all LSTs + COBALT TESTING (all international stations switched to ILT mode at 9 UT)												COBALT TESTING		LC1_001 - T Tau (rpt) - 8.5hrs								
	10	Fri	LC1_001 - T Tau (rpt) - 8.5hrs		MSSS - 8 hrs					COBALT TESTING					LC1_039 (EoR) - NCP										
	11	Sat	LC1_039 (EoR) - NCP						Stress system runs and TBB runs			LC1_023 - LSTs 16,18		Stress system runs and TBB runs			LC1_023 - LSTs 22		Stress system runs and TBB runs		LC1_023 - LSTs 02,07		Stress system runs and TBB runs	LC1_020 - Crab - 0.5hrs	Stress system runs and TBB runs
	12	Sun	LC1_033 - PanSTARRs - 2hrs		Stress system runs and TBB runs			LC1_052 - LOTAAS - 8hrs					Stress system runs and TBB runs		LC1_036 - 135+00 - 4hrs			LC1_039 (EoR) - 3C196							

- Detailed Cycle 1 schedule available here: <https://docs.google.com/spreadsheets/d/0AtnmDczhIbEtdGQ4enZicHpGREpGYm1Pc2JrQWIZWmc/edit#gid=0>
- Contact Science Support in case of questions/issues
- **\*\*Always cc 'sciencesupport@astron.nl' and include the proposal code in the subject line\*\***

## CYCLE 2

- Start of Cycle 2: 15 May 2014
- Proposal call will be advertised at the end of January
- Proposal submission deadline: 7 March 2014
  
- Preparations:
  - Update of LOFAR web pages
  - NorthStar improvements – beta testers from all KSP's will test the tool during the next two weeks

## CEP news:

- CEP-2: stable
  
- CEP-1:
  - Ice nodes becoming progressively unstable – **back-up your data elsewhere!**
  - Staging areas cleared up every week by removing pipeline data older than 4 weeks
  - On 20 December our Cluster administrator removed the data of unresponsive users owing data untouched since 60 days

# CALENDAR LOFAR activities



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

- Next LSM : 22 January 2014
- Imaging Busy week 20 : 3 – 7 February 2014
- Cycle 2 proposal deadline : 7 March 2014
- Third LOFAR Science collaboration Workshop + MSSS workshop : 8-11 April 2014



# STOP DAY RESULTS



- BGP diagnostics: no problems found (despite last night's error)
- Cobalt updates: some minor issues
- Portals updated & rebooted: agro cosmic dep1 dep2 geo geolofar knmi nap portal smtp (including lcs016, lcs017)
- Central services updated & rebooted: lcs020-lcs029 (including lcs007, lcs008)
- Lfe001 & lfe002 reboot
- Lhn001 & lhn002 reboot
- Lexar001 rebooted (twice)
- Ldb001 reboot & MonetDB update to Feb0213-SP6
- Lce100 (Ubuntu 12.04LTS) update & reboot
- Lcs006 (Ubuntu 12.04LTS with Xen)update & reboot
- locus051,079,089 problems solved (disk cable errors)
- All Dutch LCU's rebooted. Solved CS103 eth1 network problem, RS106 security issue (selinux=disabled).
- Reboot of sas001,003, 099, mcu001,099, ccu001,099 (mcu099 network problem solved)