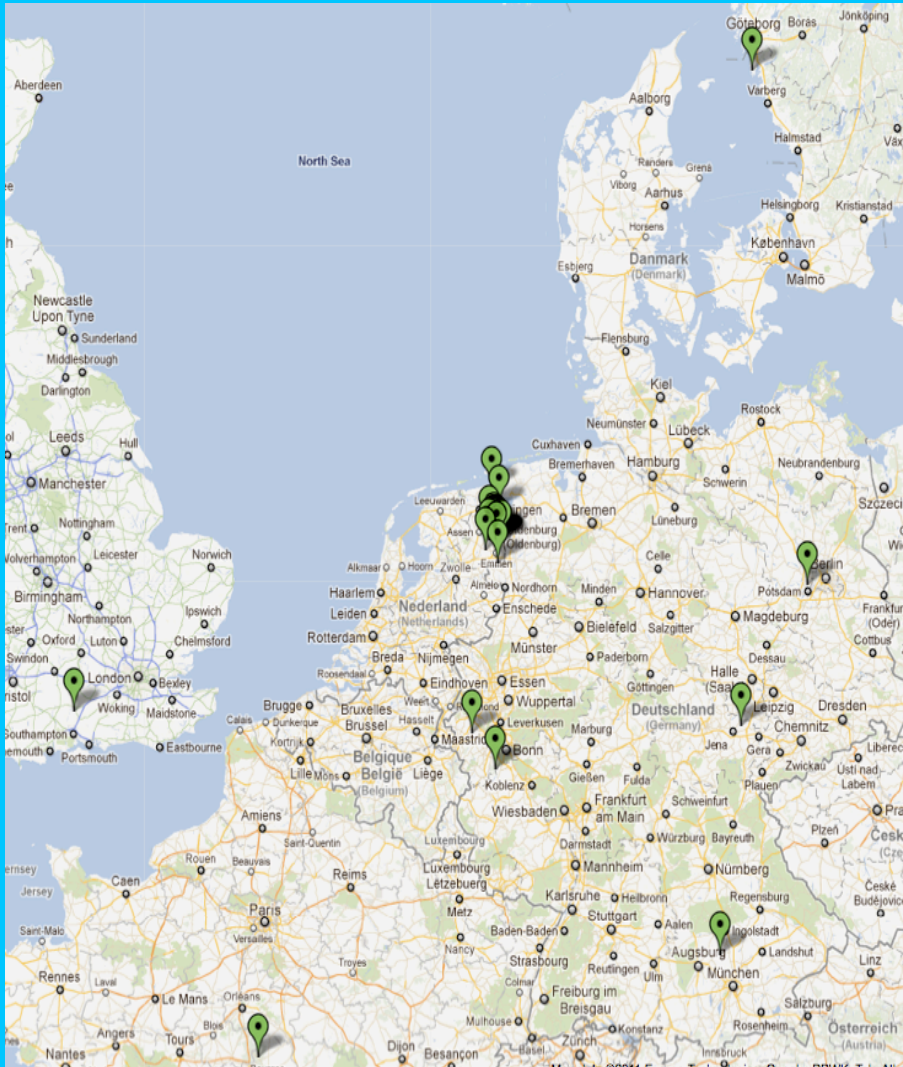


Programme

- 1) Array status – Harm Munk
- 2) Observatory update – Wilfred Frieswijk
- 3) Cranking up the resolution of MSSS – John McKean
- 4) LC0_003: status update – Jess Broderick
- 5) LC0_019: status update – Ger de Bruyn
- 6) LC0_034, 011, 008: status update – Jason Hessels

Array Status



Current Status:

- 37 operational NL stations
- 24 CSs
- 13 RSs
- 8 ISs
- UK608: TBB memory upgrade installed
- Repairs started (15/4) on CS006.
- DE602 maintenance April 23-24
- Repair DE605 April 25 (damaged coax?)
- NL stations TBB memory upgrade installation planned for two weeks starting April 29
- RS210: network connection expected by mid May

Network, CEP Status



Network

- Still unresolved network problems on the link from DE601
 - Weekend observation April 6/7: 100% flagging

BG/P

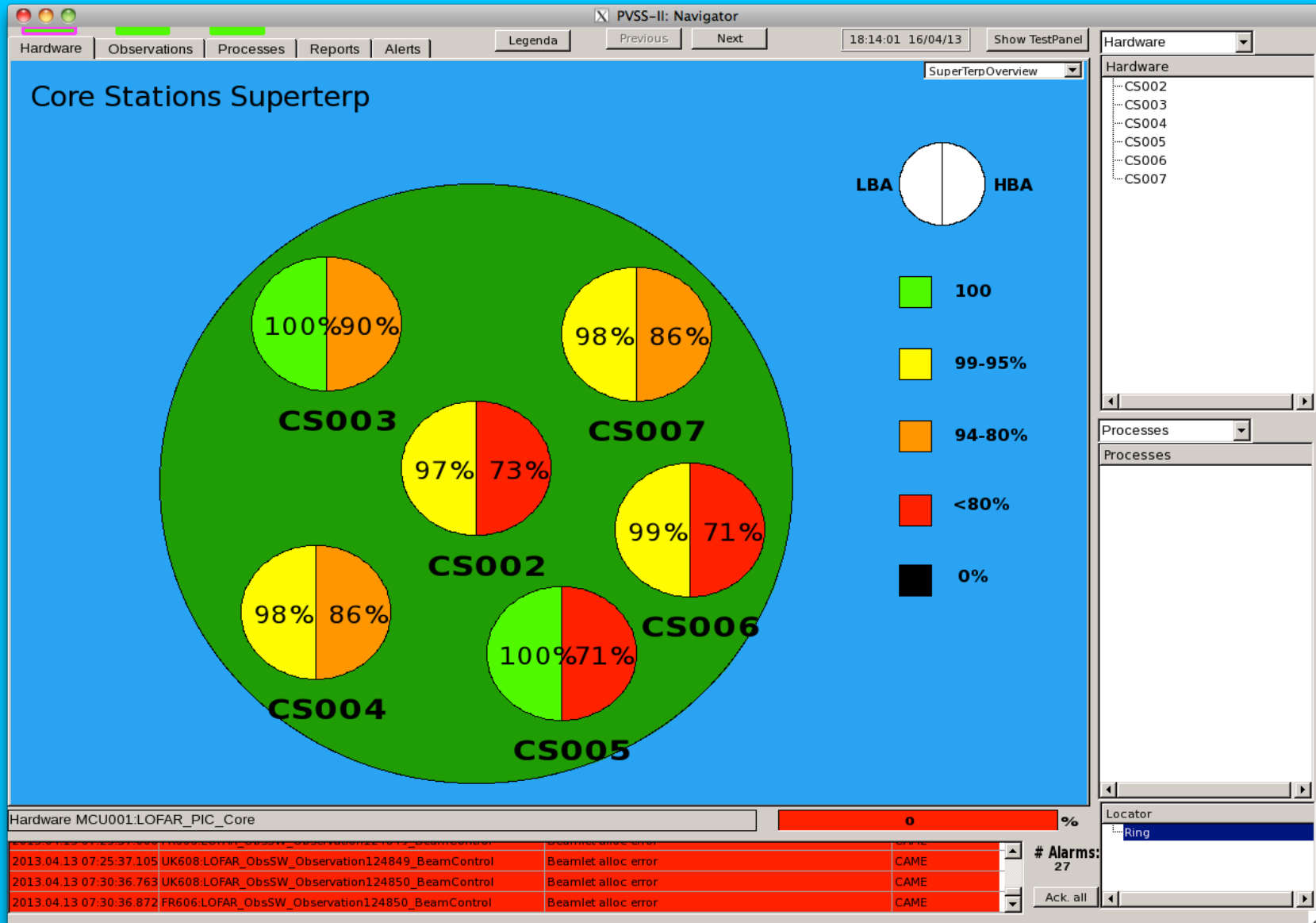
- network node running failure in Rack 01: no impact on LOFAR ops

CEP-I/II

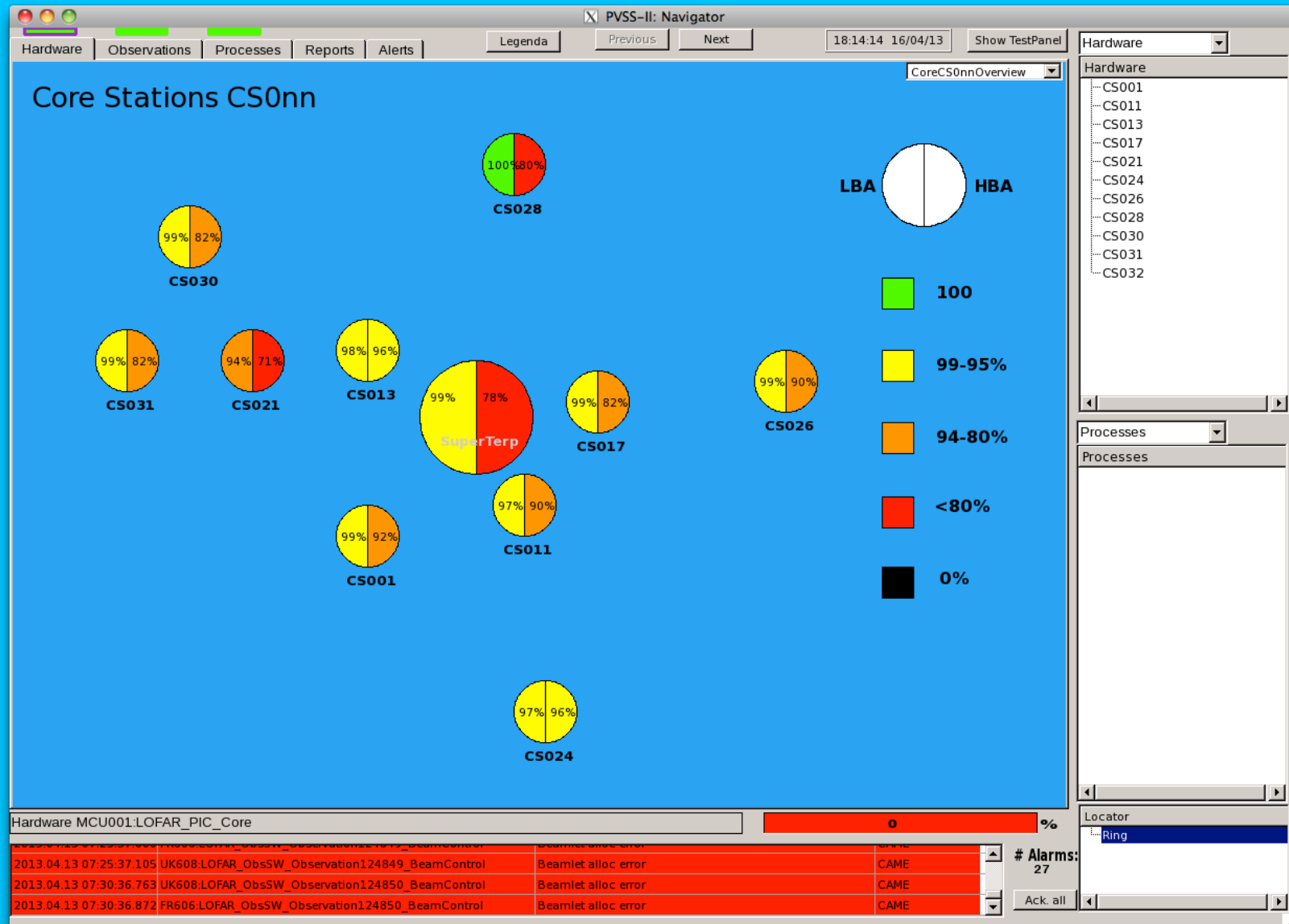
- LOFAR portals migrated to High Availability systems
 - 'Gnome' desktop replaced by lightweight desktop: 'icewm'

Next stop day: Tuesday, May 7

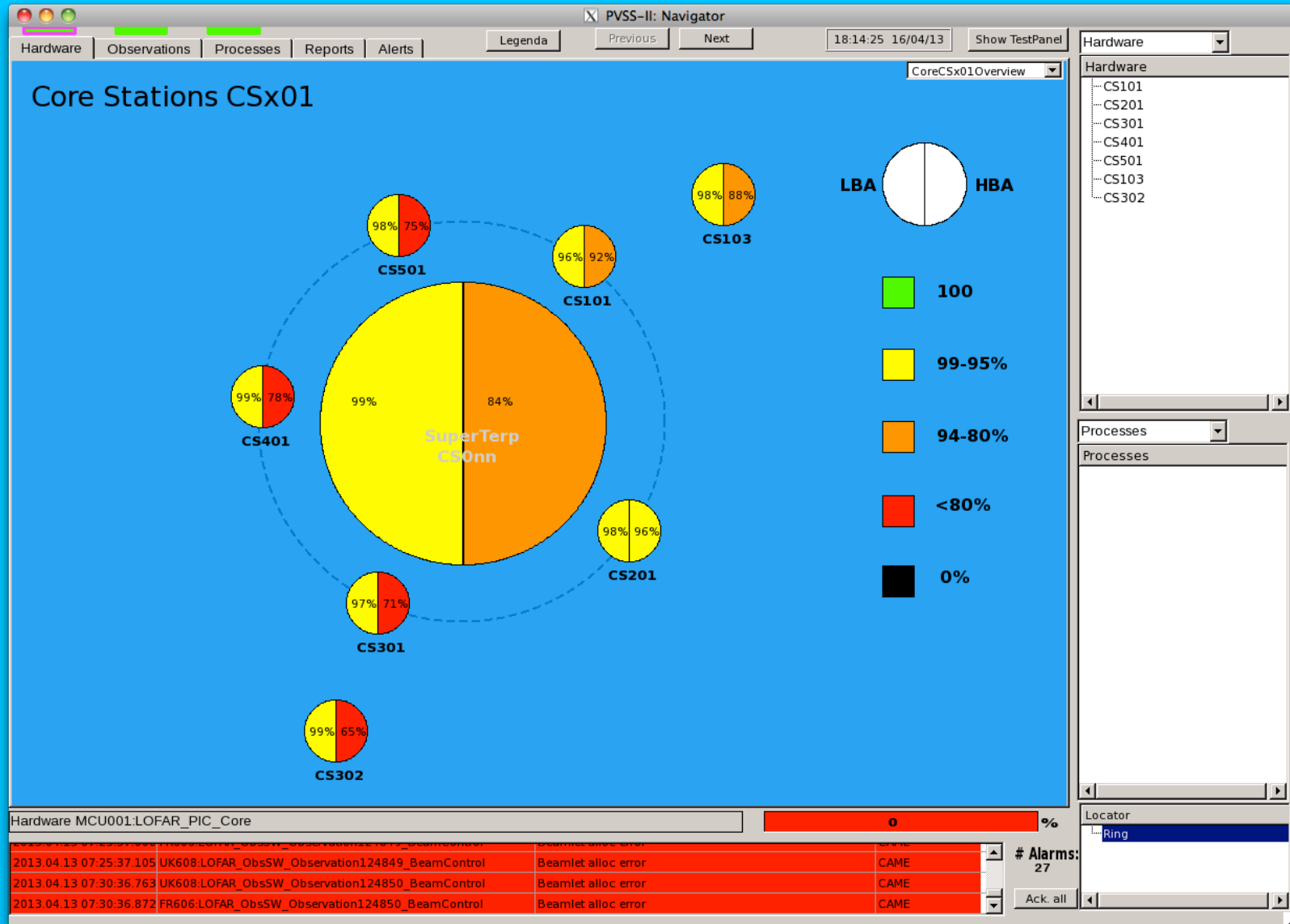
Superterp



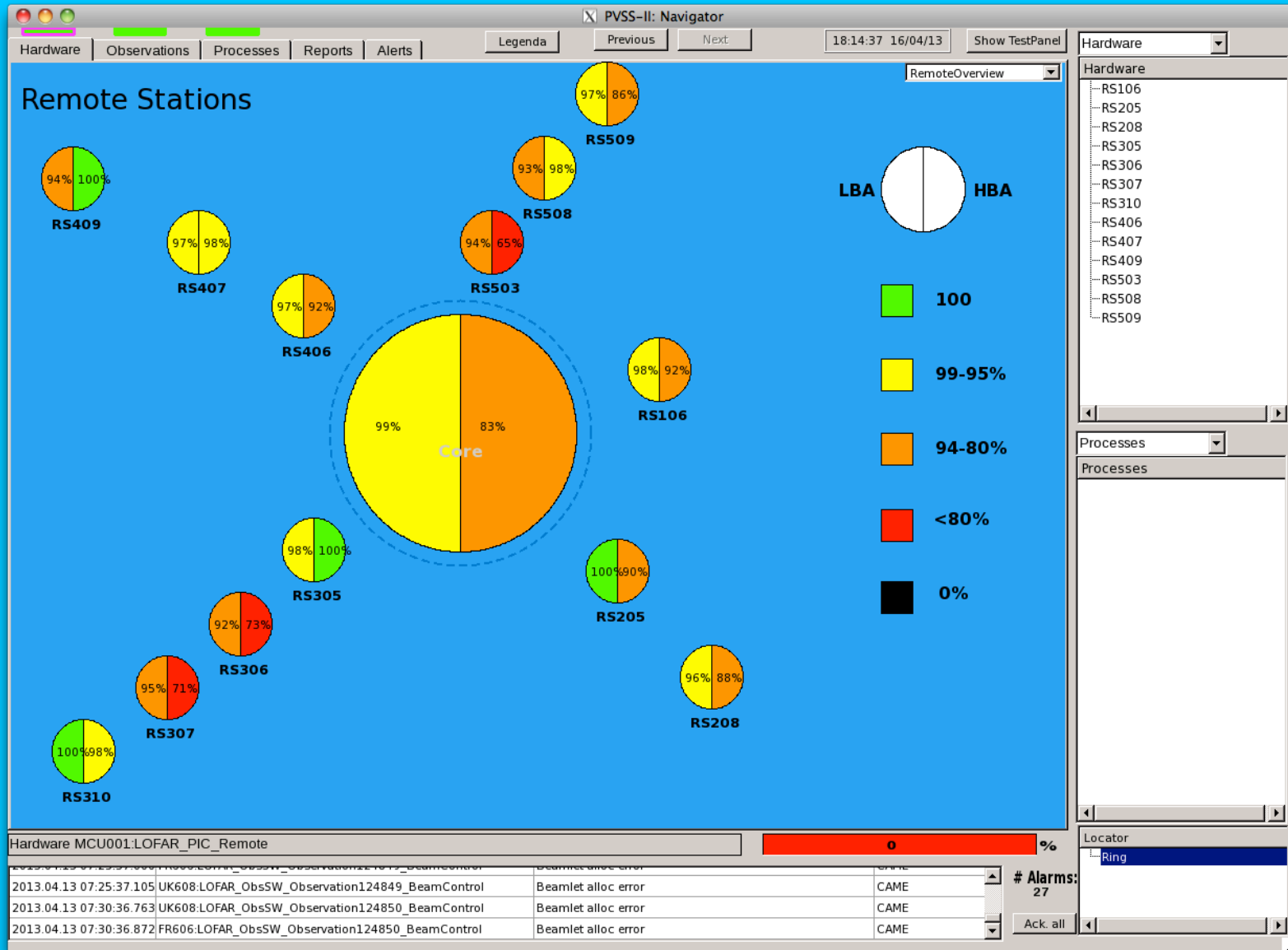
Core



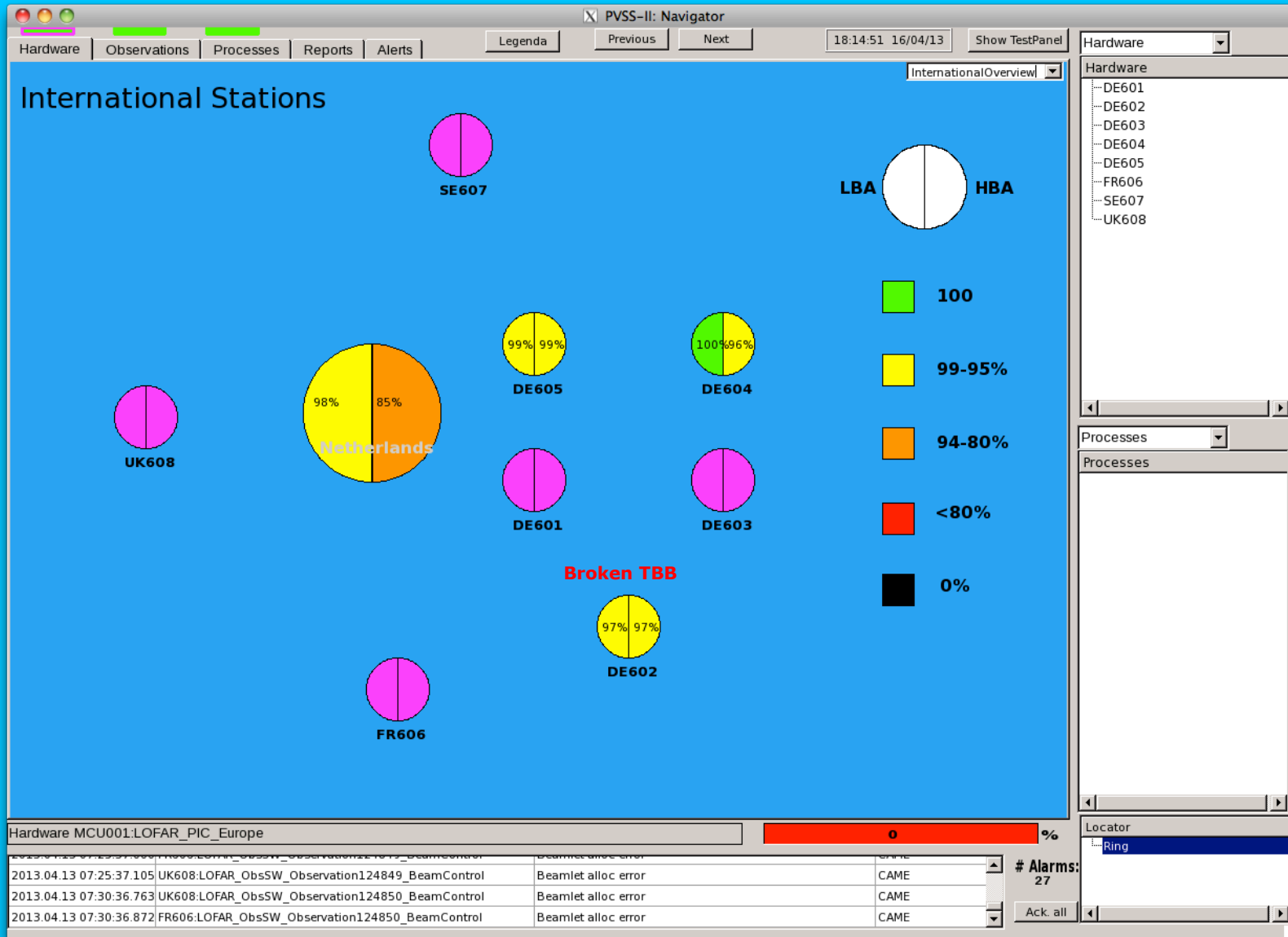
Core x01 and outside



Remote

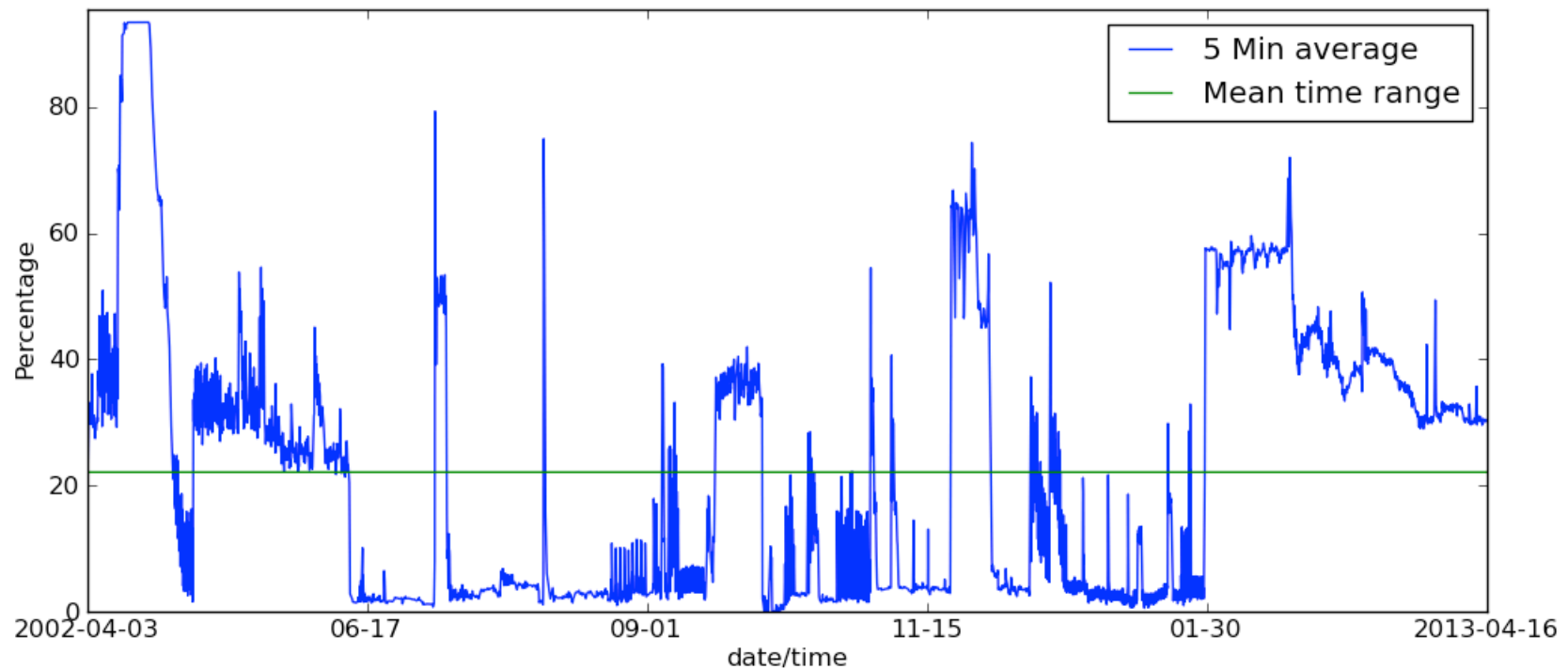


International



CEP usage last two weeks

Averaged CPU usage Locus nodes in % for 14 days.
Created at UTC 2013-04-16 18:32



News regarding the observing system

- Overall system stability is good

- ✓ Observations stable

- ✓ Pipelines stable

- occasional swapping, too many processes (scripts to handle it)
 - some failed subbands due to node-crashes



- Issues

- ✓ Recent failures

- Some recent International runs full flagging
 - * upgrade the flash of the S1 switch at DE601 (A. Koers)
 - * possibly related to older sw versions [updated this week], tests tomorrow
 - LBA heavily affected by ionosphere (solar activity)
 - BG crash over the weekend affecting several runs

- ✓ Oscillating tiles

- Repairs started (CS005,6); new station tests, implementation follows soon



News regarding the observing system: Updates, issues, tests



- Development
 - ✓ focus: bug fixes, preparation/scheduling-efficiency improvement
 - ✓ current sprint, next rollout May 28
 - ✓ XML generator for preparation of cycle 0 runs
 - automatically generating observations + pipelines (v9, block structure)
- Updates of MoM, Scheduler and SaS/MAC to improve functionality and stabilize the system

News regarding the observing system: Tests, MSSS, other



- Station tests, monitoring etc... continue
- Continuation MSSS HBA survey
 - ✓ 1 block per week
 - ✓ LBA fields
- VHECR stand-alone
- Commissioning
 - ✓ Lenc field (O. Wucknitz)
 - ✓ NGC891 ToO (D. Mulcahy)
 - ✓ LB under investigation (A. Deller)
 - ✓ B0823+26 joined with WSRT

News regarding the observing system: Archive



- Raw/processed data ingest to LTA (LC0, commissioning) is ongoing (data to user ~week)
 - ✓ some issues with space in Juelich have been solved
 - ✓ staging service suffered from firewall issues, solved
 - ✓ incomplete/-correct metadata
- LC019 data transferred to Target cluster
- Processed LC0 data transferred to CEP1 for expert processing (maximum of 4 weeks guaranteed)

News regarding Cycle 0 observations

- Cycle 0 continuing at >80% efficiency
- Projects:
 - ✓ LC0_002, LC0_003, LC0_006, LC0_007, LC0_009, LC0_011, LC0_012, LC0_013, LC0_015, LC0_017, LC0_019, LC0_026, LC0_032, LC0_034, LC0_037, LC0_038, LC0_039, LC0_041, LC0_042, LC0_043
 - ✓ LC0_010, LC0_014, LC0_044 (stand-alone)
- Detailed schedule; contact science support in case of issues

16, 15th April	Mon	LC0_019 (EoR) - NCP - hrs	DE601, FR606, SE607, UK608 switched to local mode at 9 UTC; investigation of week-end failures; test LC0_037 run		Stress system runs + TBB runs	LC0_037 - A1914 - 8hrs	
	Tue	LC0_037 - A1914 - 8hrs	LC0_034, 11,008 - pulsars runs - 9 hrs		Stress system runs + TBB runs	LC0_037 - A1914 - 8hrs	
	Wed	LC0_037 - A1914 - 8hrs	Stress system runs + TBB runs	LC0_039 monitoring: DE601, FR606, SE607, UK608 switched to ILT mode at 13 UTC; FE monitoring runs; beam tests; TBB tests; test system with all international stations	Stress system runs + TBB runs	LC0_019 (EoR) - NCP - hrs	
	Thu	LC0_019 (EoR) - NCP - hrs	Stress system runs + TBB runs	Test system with all international stations	Stress system runs + TBB runs	LC0_019 (EoR) - NCP - hrs	
	Fri	LC0_019 (EoR) - NCP - hrs	ToO - NGC891 with WSRT - 12hrs			LC0_037 - A1682 - 10hrs	
	Sat	LC0_037 - A1682 - 10hrs	MSSS - HBA		LC0_034, 11,008 - pulsars runs - 9 hrs	LC0_004 - MG J1131+0456 - 4 hrs	MSSS HBA - MISSING FIELDS
	Sun	MSSS - HBA - MISSING FIELDS		Stress system runs + TBB runs	LC0_003 - Zenith fields - 24 hrs		

CEP news: Stopday April 9



- Portals: The Lofar portal and its companions ns1, ns2 and smtp have been replaced by a set of Ubuntu 12 virtual systems.
- Network: The NAA networks of KNMI and TNO have been connected to the new 4-port-interfaces of the new portal machines. In the near future NAA will be completely separated from the Lofar network.
- BG/P: Only one problem was found in rack R01-M1. A service request was send to IBM. This has no influence on Lofar operations.
- Central services: Updates and reboots
- LCU family: No updates / reboot needed
- CEP1: reboot lfe001 & lfe002
- CEP2: Reboot: lhn001, lhn002, locus001-094, locus101 and Fan speed adjusted: lhn001, lhn002, locus022, locus030, locus085

- Next stop-day: May 7 (Tuesday)

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>

15-19 Apr Imaging busy week

13-16 May MKSP (13-15 workshop + 16-17 busy days)

15-17 May NAC

7 May CEP stop-day
