

Programme:

- 1. Array status – H. Munk*
- 2. Observatory update – R. Fallows*
- 3. MSSS update – G. Heald*
- 4. Status of COBALT – R. Nijboer*
- 5. LC0_010/014 progress update – A. Karastergiou*
- 6. LOFAR HBA observations of the Galactic centre – D. Jones*

Array Status

Current Status:

- 37 operational NL stations
- 24 CSs
- 13 RSs
- 8 ISs

- NL stations TBB memory upgrade installation delayed to June
- RS210: network connected; validation in second half of June
- DE603: broken airco: repaired
- DE604, DE603: maintenance June 10-14

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

Network, CEP Status



Network

- Still unresolved network problems on the link from DE601
 - Extensive test planned for week Mid July

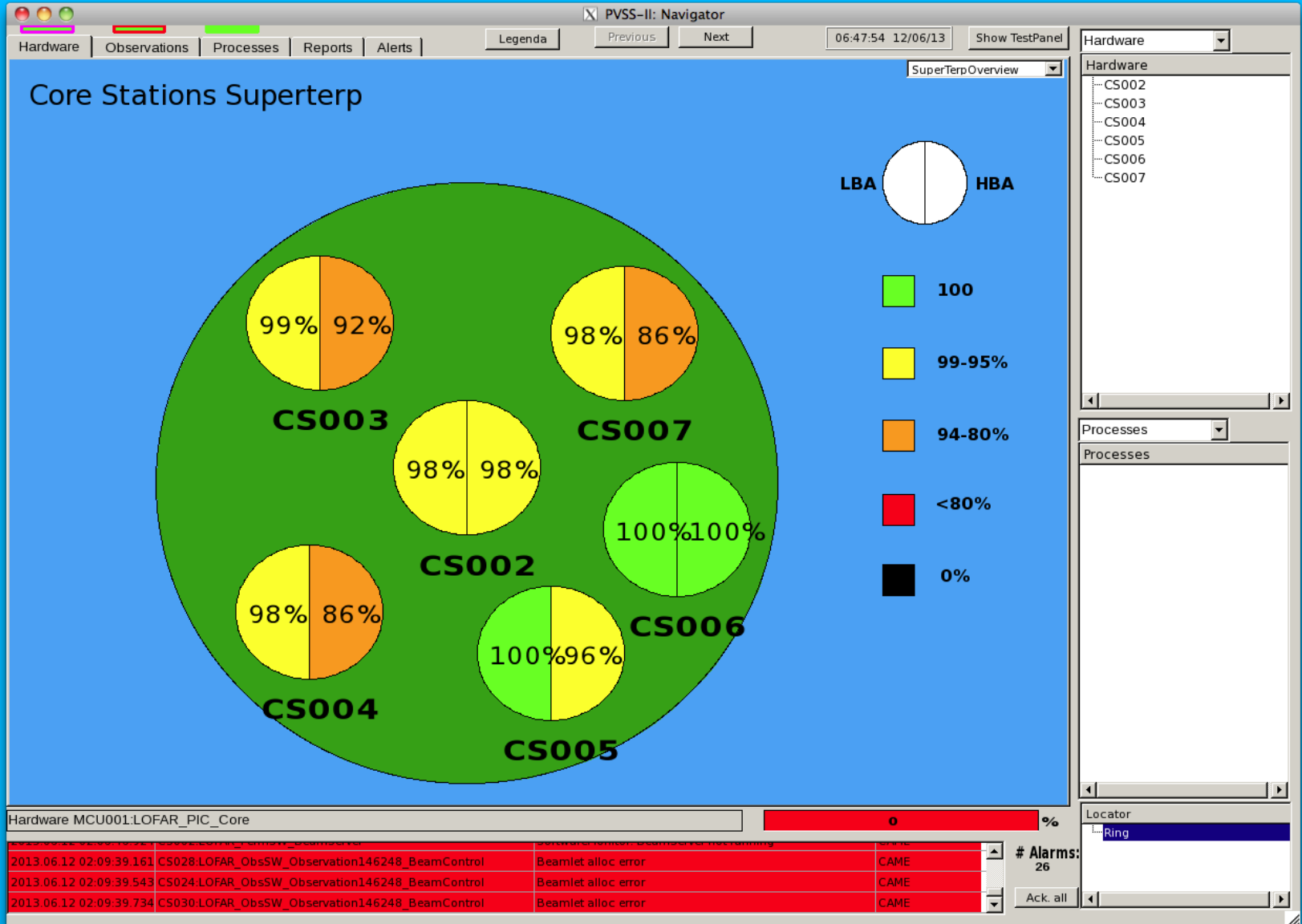
BG/P

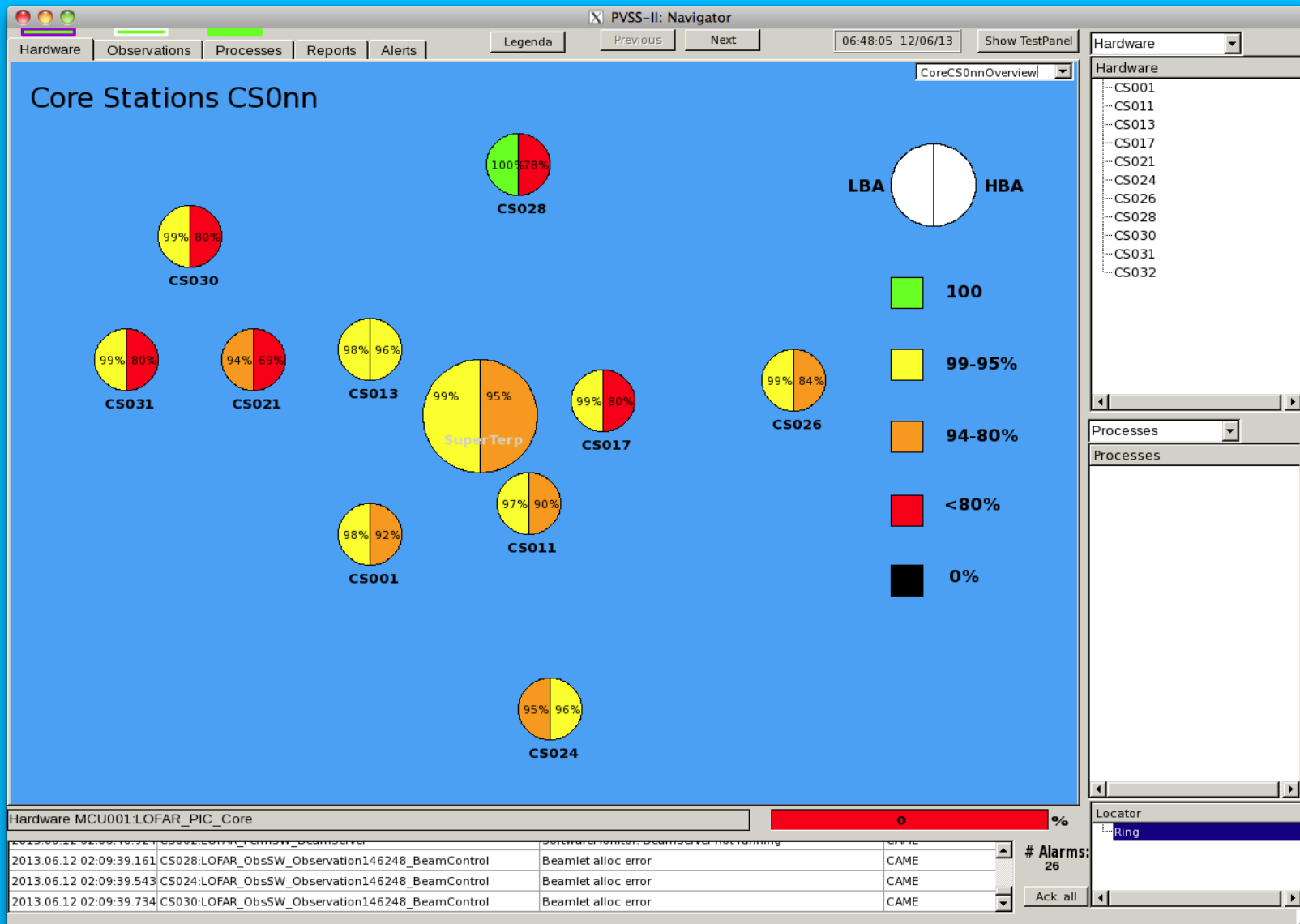
- No problems during stop day June 4

CEP-I/II

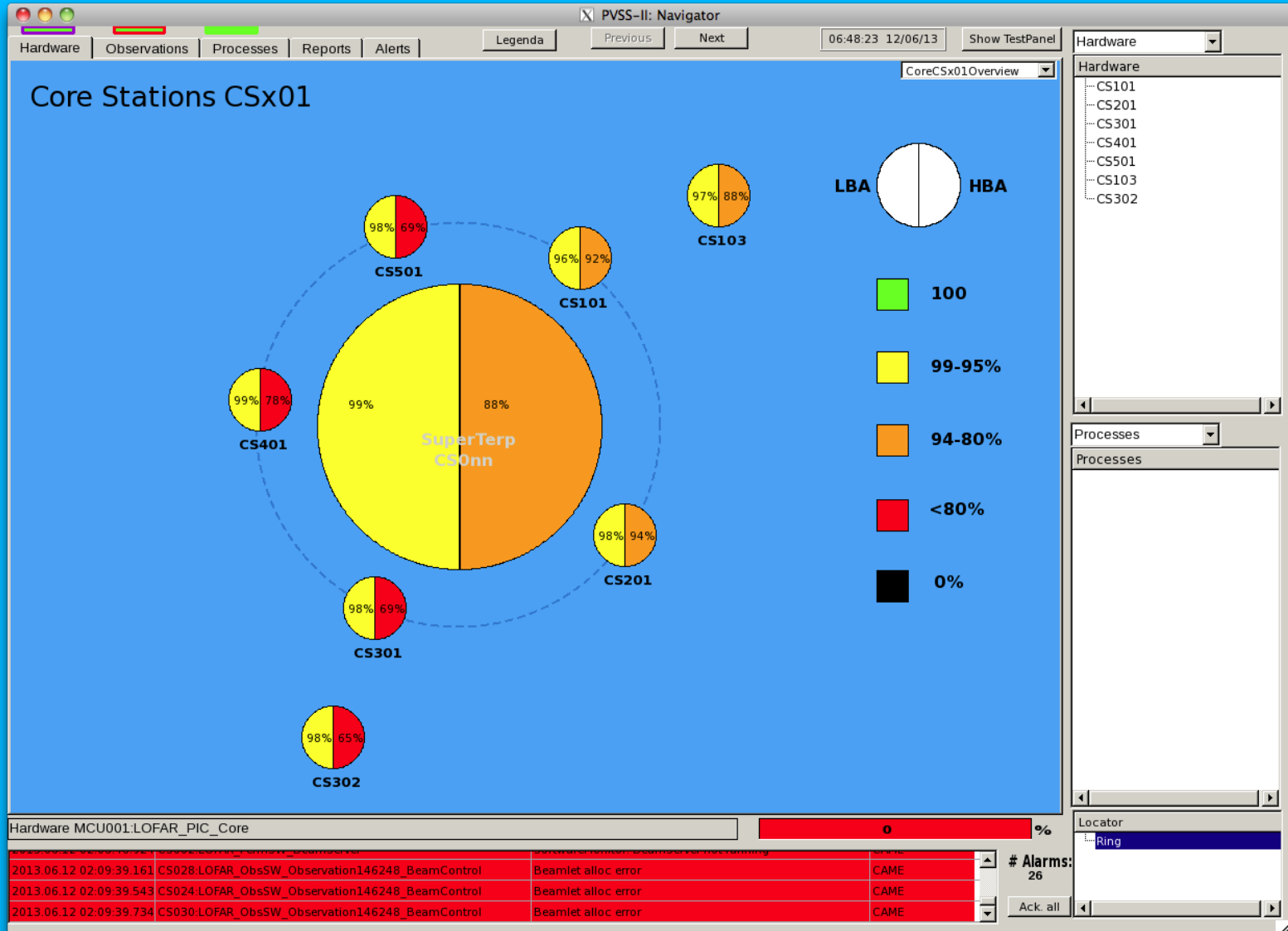
- Status of CEP-I disks deteriorating

Next stop day: Tuesday, July 2

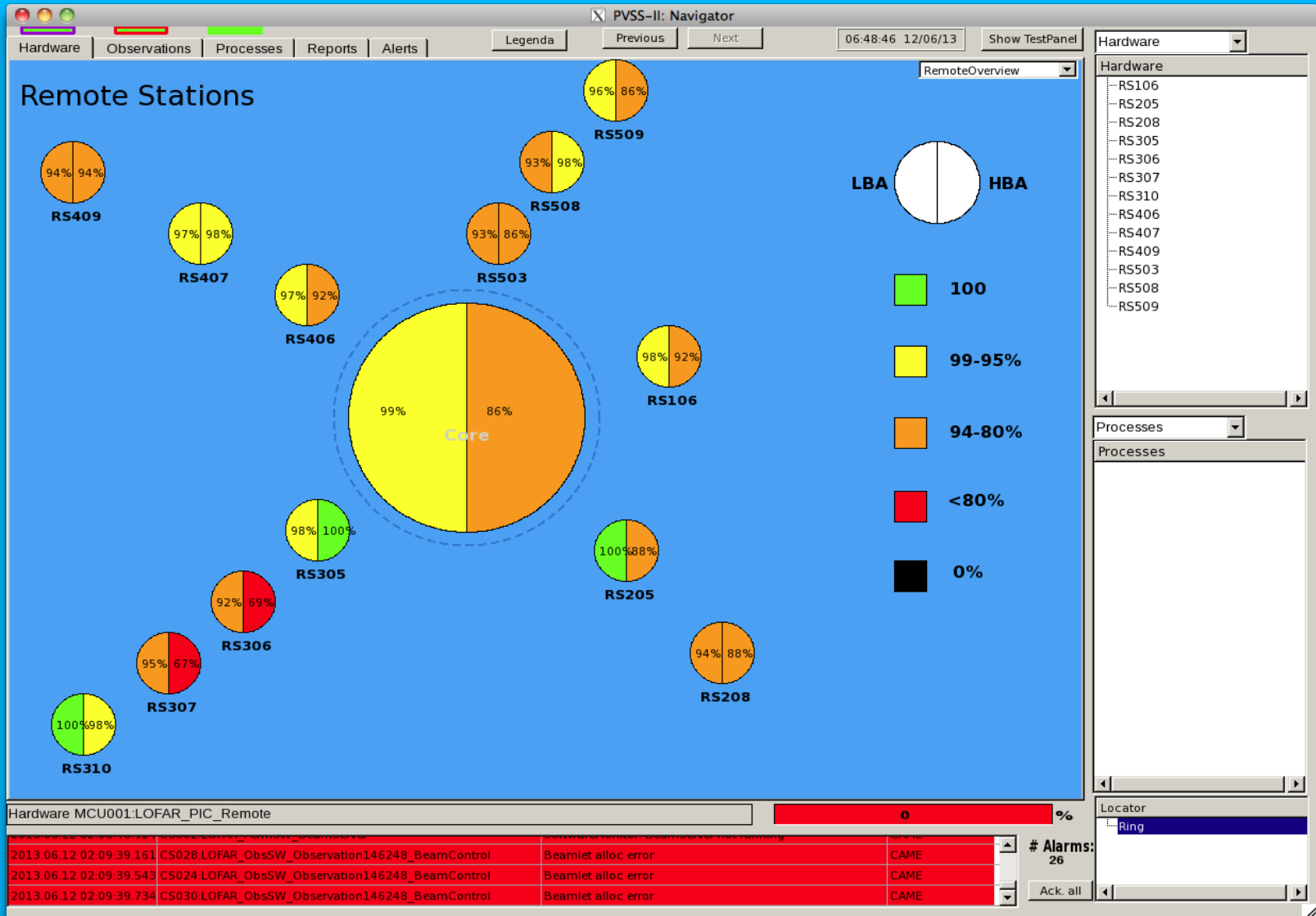




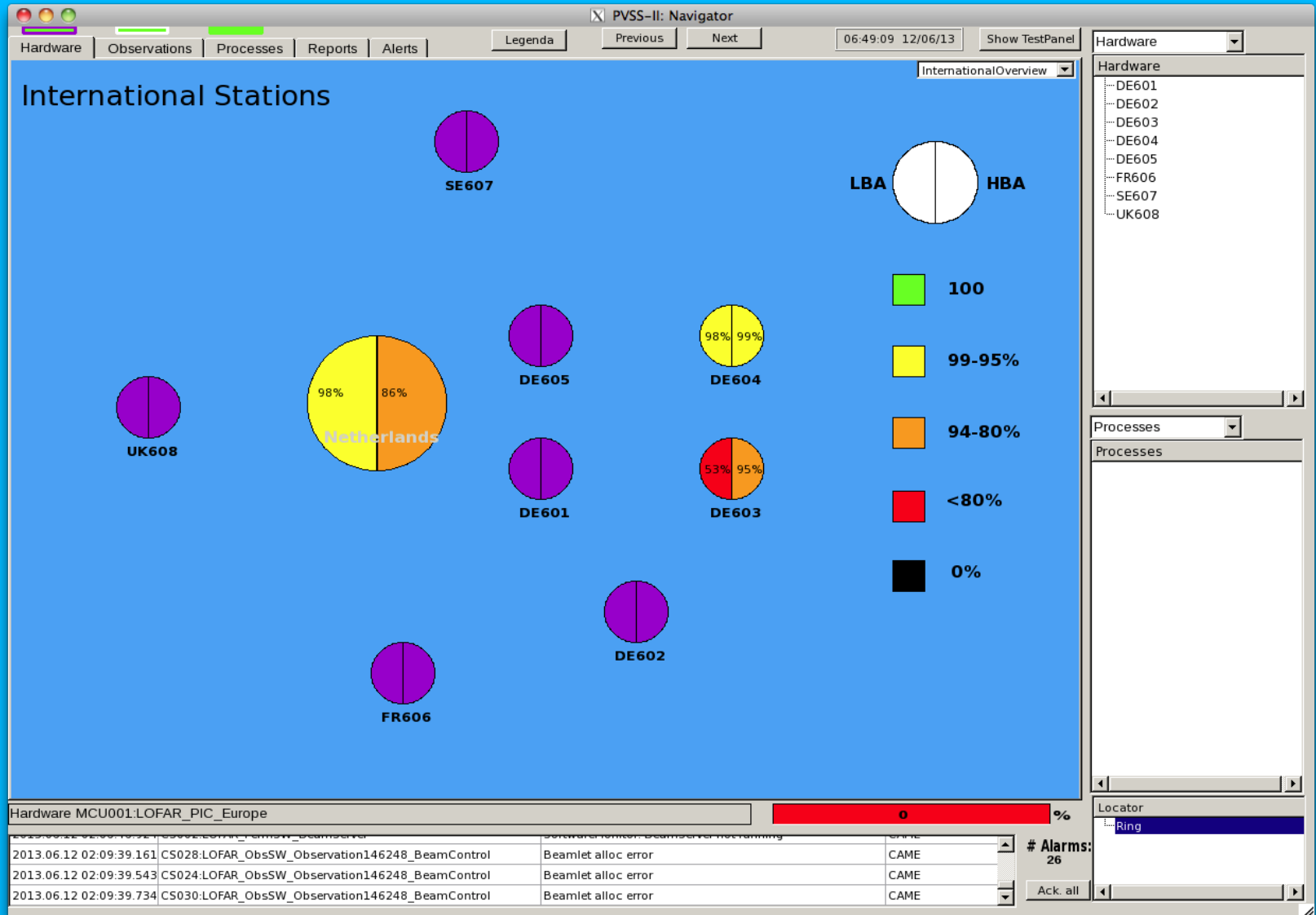
Core x01 and outside



Remote

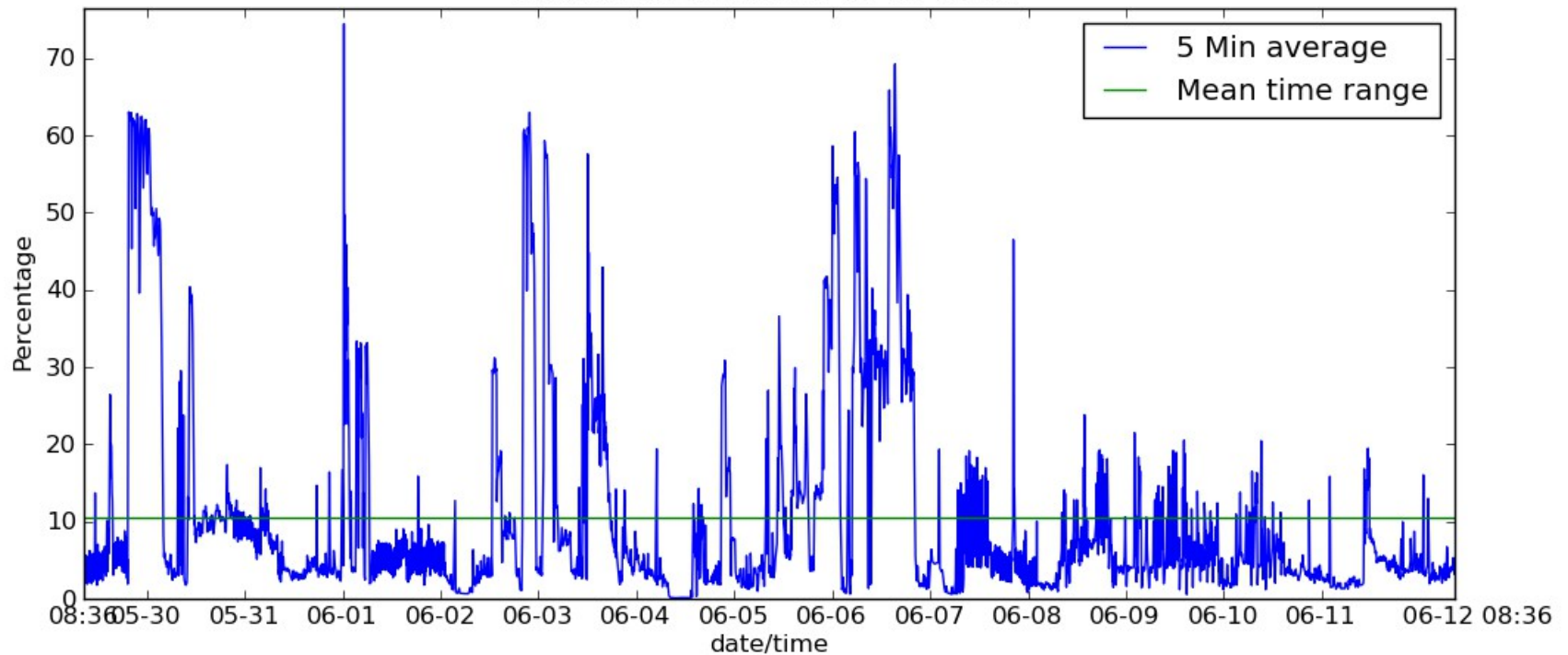


International



CEP usage last two weeks

Averaged CPU usage Locus nodes in % for 14 days.
Created at UTC 2013-06-12 08:37



- CEP2:
 - Number of nodes hanging on occasion, mainly due to memory usage by pipelines.
- CEP1:
 - **Heavy users of /data areas are requested to clean up their data regularly.** If there is no response to an email requesting you to clean up, data will be removed by our administrator.
 - Staging areas are getting full. Please remember that **Cycle 0 data have a grace period of 4 weeks** in these areas. After this, they may be removed.

News regarding the observing system: Stations



- A number of stations have been failing in the daytime due to overheating., particularly CS007, CS011, CS026, CS032 and CS101.
- Environment Control problems at CS001, CS017, CS032, DE602 and DE605. Stations can be used, but causes problems for resetting a station if necessary.
- Significant data flagging from DE601, DE602 and DE605 last weekend; reason unknown.

News regarding the observing system: Stability and performance

- Overall stability is good:
 - Observations are stable.
 - Pipelines are mostly stable, but some heavy memory usage on locus nodes sometimes causes problems.
- Issues:
 - Observation and pipeline status updates in MoM still unreliable. Being monitored and bugfixes being put in place.
 - Processing is stable, but scheduling of pipelines is a manual process involving estimation of the length of time they will take. This leads to memory issues when pipelines take longer than expected, and can occasionally result in the cluster being quiet.

News regarding the observing system: Archive



- The issues with incomplete meta-data in some observations are gradually being resolved, but many old observations from February remain in the queue.
- An issue with double MoM-IDs has resulted in a backlog of MSSS data to be ingested. The exact MoM issue has been found and a fix is under development.
- System to easily archive and retrieve data which cannot be ingested via the usual process is under development.

Cycle 0 Observations

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
25, 17th June	Mon	DDT 003 - ELAIS				Pulsars															LCO_019 - NCP				
	Tue	LCO_019 NCP				Pulsars							Morabito - 3C268.3 - 8hrs							LCO_039					
	Wed	LCO_007 - HD189733 - 3hrs						AARTFAAC EXPERIMENTS											LCO_028 - PO - 4hrs						
	Thu	LCO_028 - PO - 4hrs	LCO_039 - S8433				LCO_039	LCO_039 monitoring					MSSS - HBA - 8 hrs					LCO_028 - PO - 4hrs							
	Fri	LCO_028 - PO - 4hrs	MSSS - HBA - 8 hrs							Pulsars															
	Sat	1713 global observations																							
	Sun																								

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
26, 24th June	Mon	LCO_007 - HD189733 - 3hrs										LCO_024 - J1026+2542 - 6.5hrs									LCO_029 - J1819+3845 - 6hrs				
	Tue	LCO_029 - J1819+3845 - 6hrs										Pulsars										LCO_028 - PO - 4hrs			
	Wed	LCO_028 - PO - 4hrs																				LCO_029 - J1819+3845 - 6hrs			
	Thu	LCO_029 - J1819+3845 - 6hrs															LCO_043 - M101 - 8hrs					LCO_0 - HAT P11 - 4hrs			
	Fri	LCO_007 - HAT P11 - 4hrs	MSSS - HBA - 8 hrs							LCO_012 - B1834+620 - 10hrs															
	Sat	LCO_012 - B1834+620 - 10hrs				MSSS - HBA - 8 hrs							LCO_015 - NEP - 10hrs												
	Sun	LCO_015 - NEP - 10hrs				Pulsars							LCO_003 - PanSTARRS				LCO_012 - B1834+620 - 10hrs								

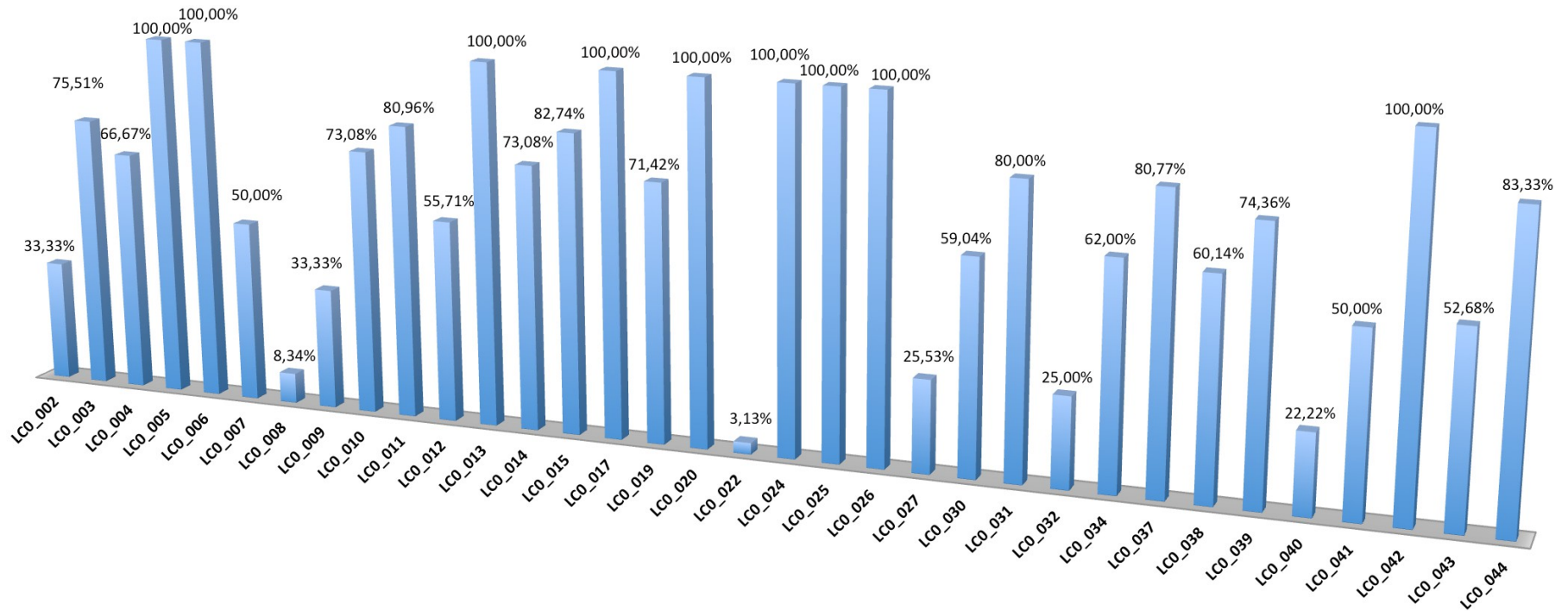
Detailed Cycle 0 schedule till the end of the 'semester' available on ASTRON website:

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

Check the schedule and inform Science Support in case of issues

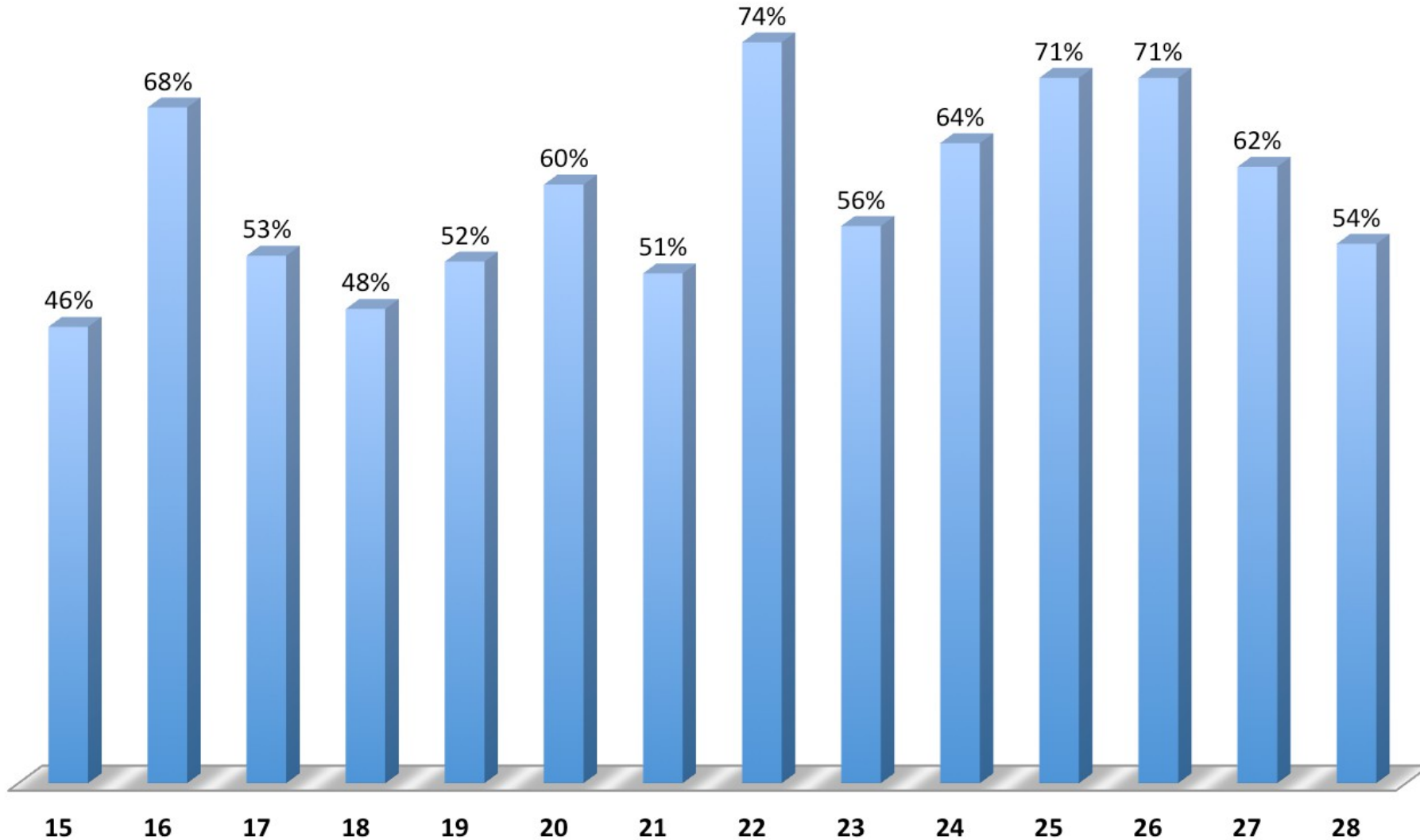
Cycle 0 Observations

Status of Cycle 0 projects



Cycle 0 Observations

Efficiency during the second trimester of Cycle 0



- Characterisation for Cycle 1: Two standard fields: 3C48 and L070+69.
- Processing time avg, demix n sources, imaging time with ST, CS, RS max baselines. Noise fct of frequency using the MSSS pipeline.
- awimager is still old version, Ger should be able to validate the new version. Values will be scaled according to the new version.
- New demix strategy proposed during the imaging BW 17, under evaluation time for implementing it in NDPDP. Not yet clear when implementation will start for automatic pipeline.
- New version of casapy Casa 4.0.1: old scripts might not work

CALENDAR of requested busy weeks and other LOFAR activities

<http://wwastron.nl/radio-observatory/astronomers/commissioning/commisioning-plan>

- 17 June: Imaging Busy Week for experts.
- 2 July: Stop Day