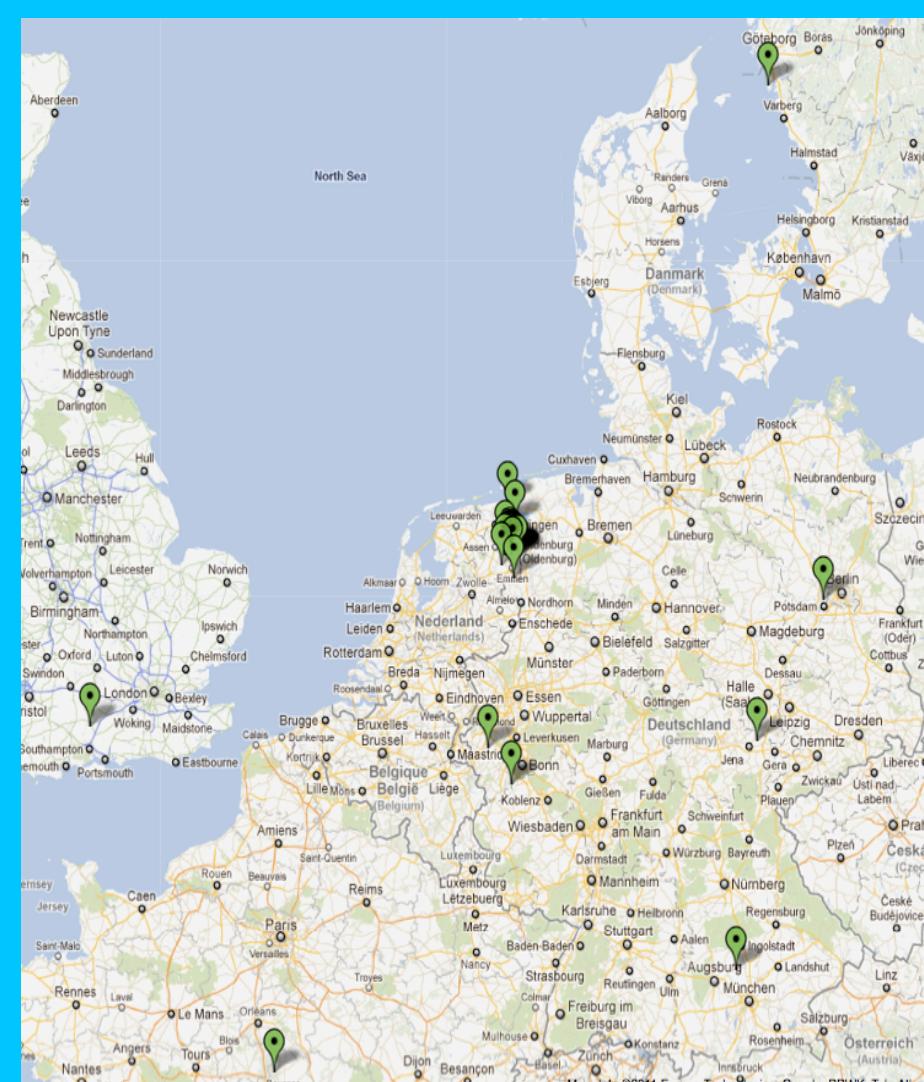# ASTRON

Programme

1) Array status – Harm Munk

2) Observatory update – Wilfred Frieswijk

3) LTA update - Hanno Holties

4) Status update on LOTAAS and millisecond pulsars observations
                                                    - Jason Hessels

5) Observations in HBA DUAL INNER configuration: pro and cons
                                                    - Ger de Bruyn

6) Update on RRL results - Raymond Oonk

Array Status

Current Status:

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

- RS210: network connection expected by April 8
- FR606:
    - airco repaired
    - TBB upgrade installed
- DE602: Broken airco (Feb 22), repaired
- TBB board 7 broken.

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

Network, CEP Status

Network
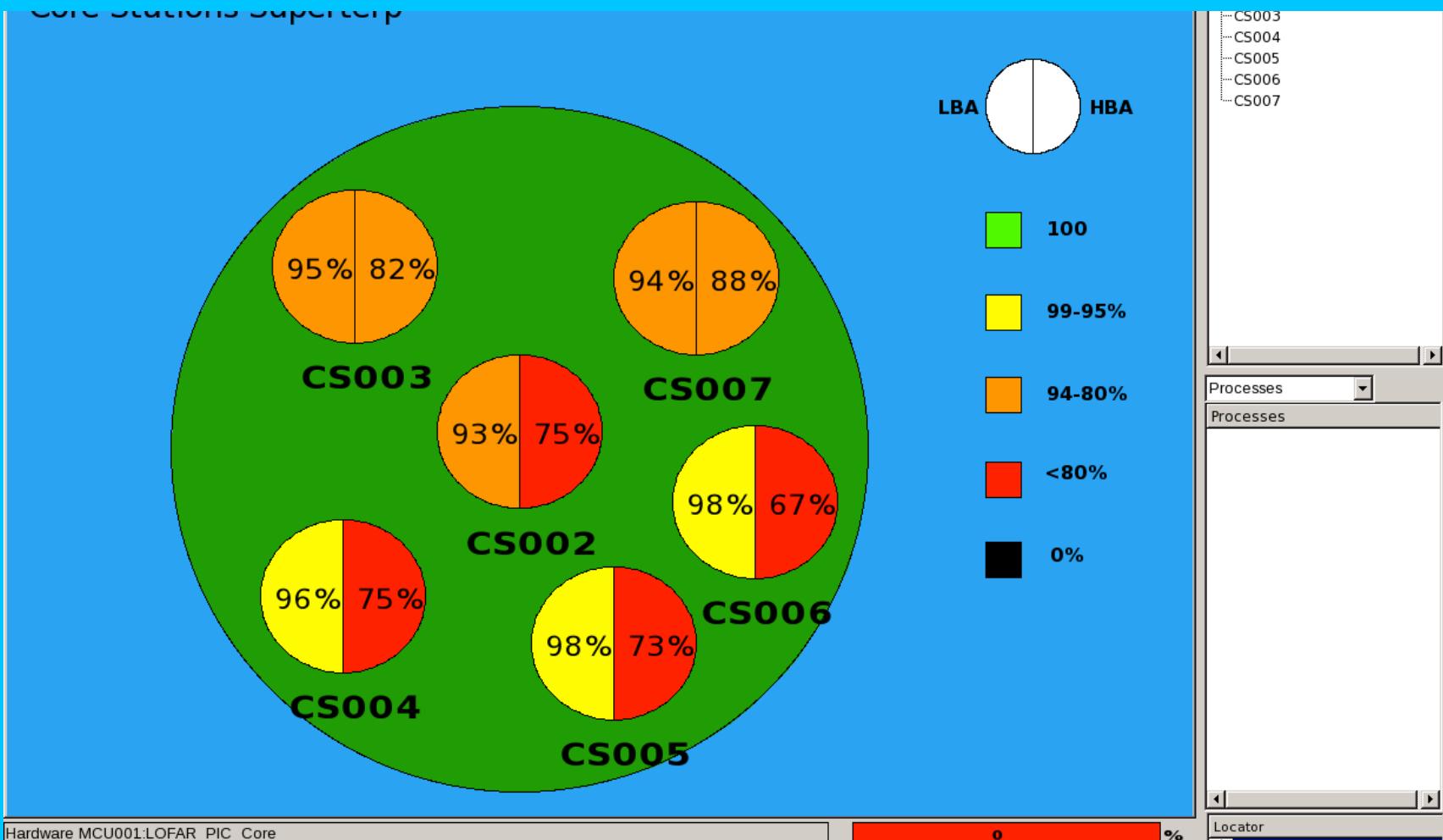- Still unresolved network problems on the Jülich-Groningen link
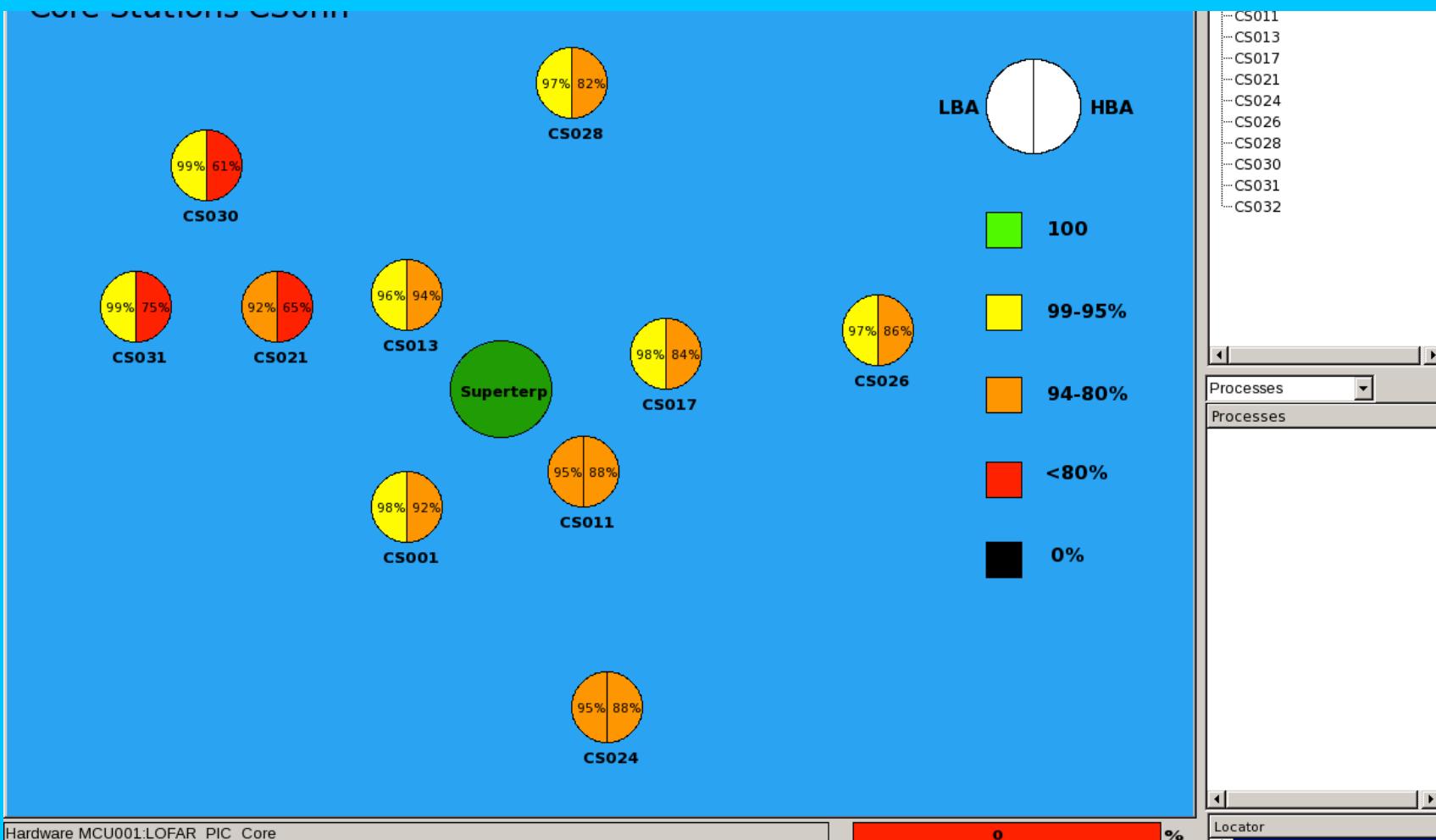
BG/P
- Performance nominal

CEP-I/II
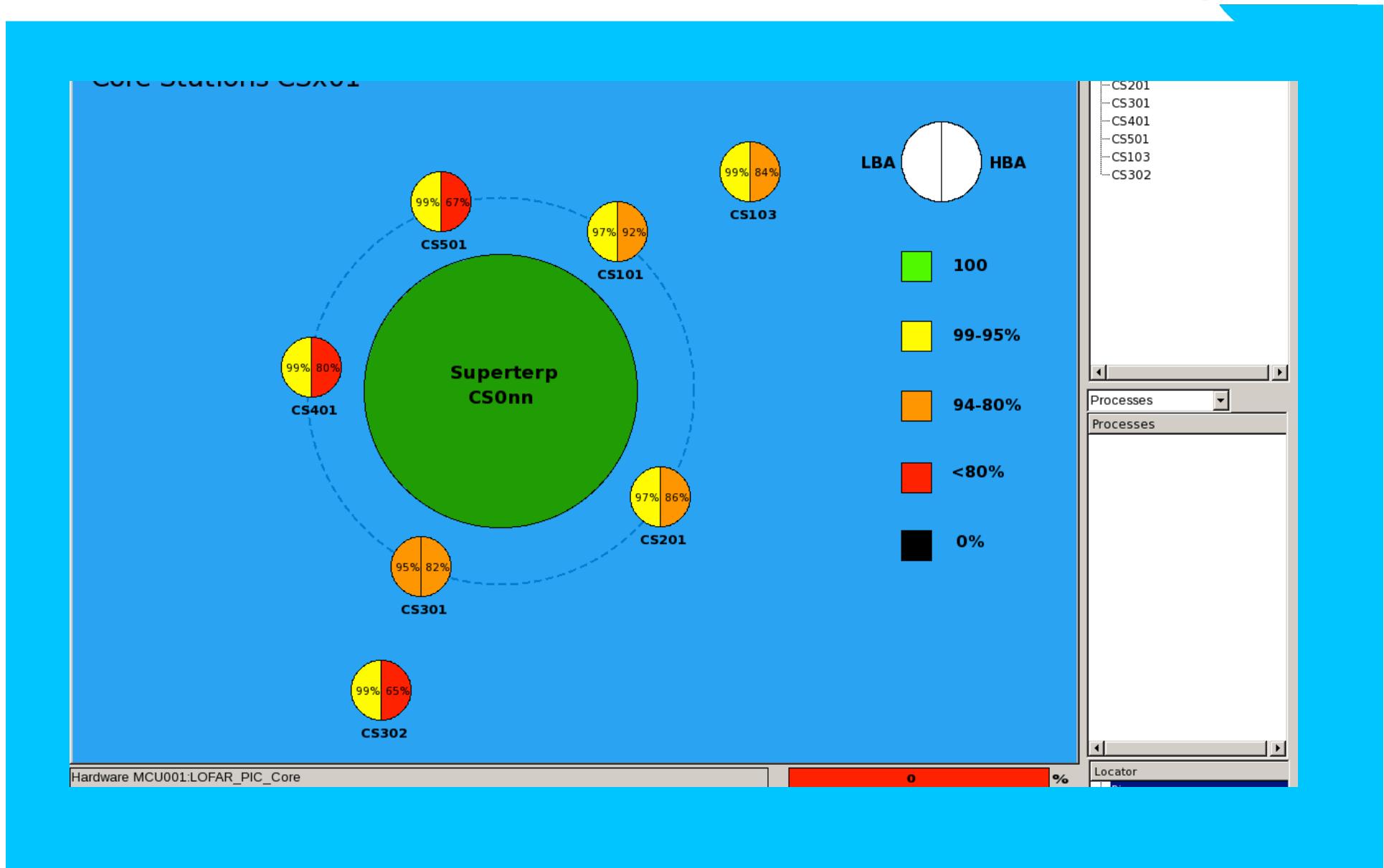- No issues during stop day

Next stop day: Tuesday, April 9

Superterp

Core

Core x01 and outside

Remote
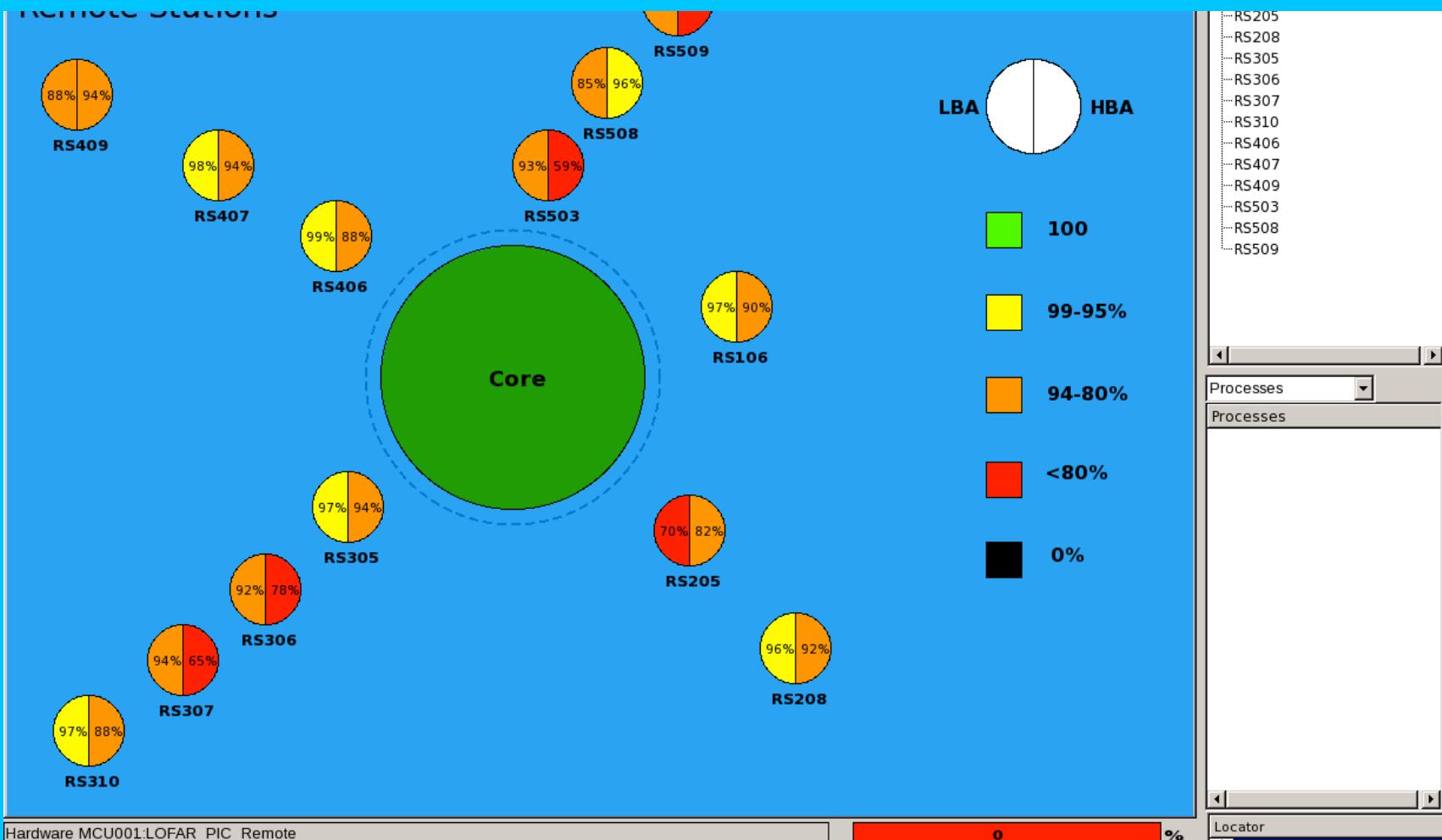
International
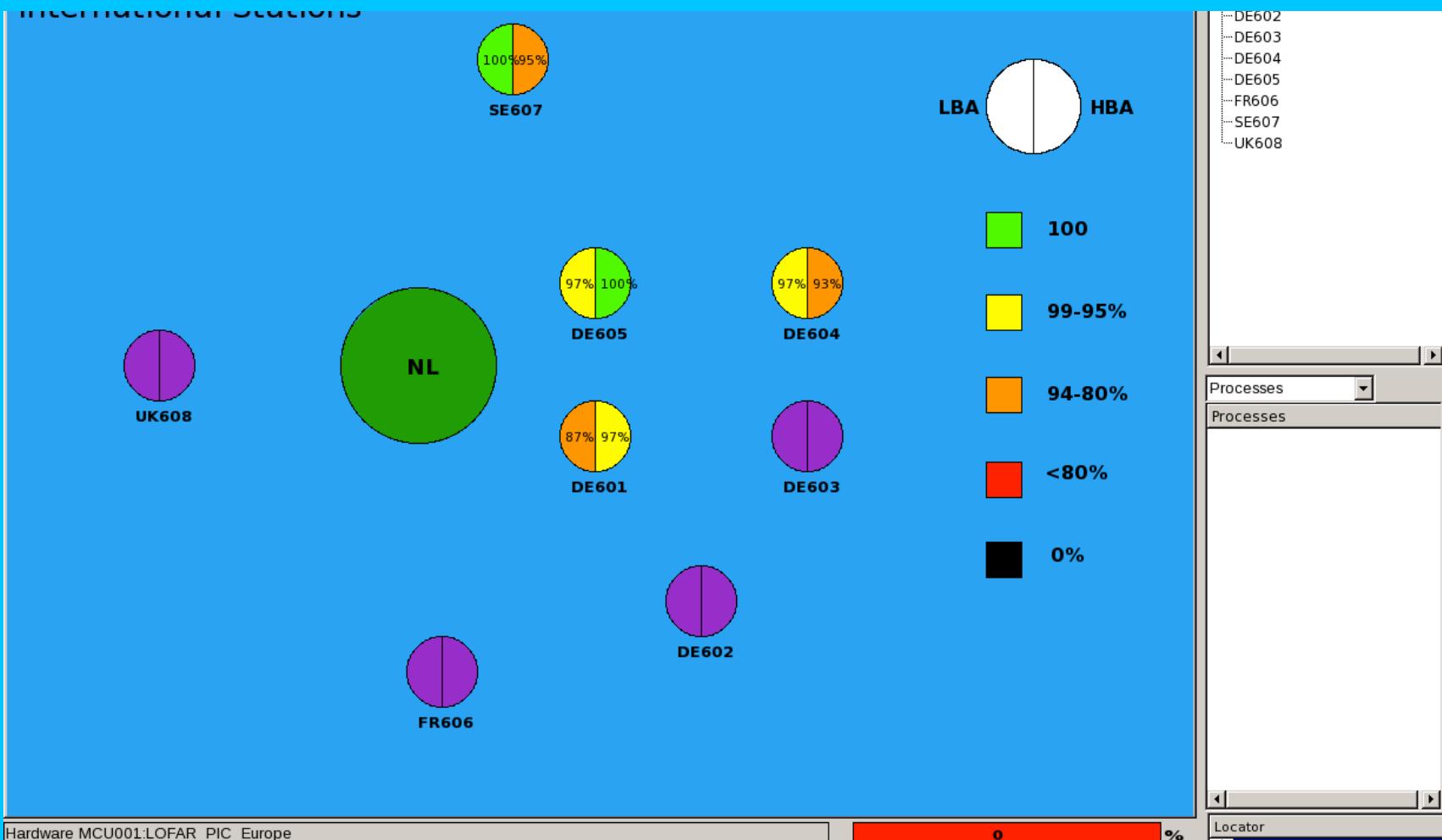
CEP usage last two weeks

Averaged CPU usage Locus nodes in % for 14 days.
Created at UTC 2013-03-06 09:17

- Overall system stability is good

    ✓ Observations stable

    ✓ Pipelines getting more stable

        - swapping when too many are running
        - specification errors

- TBB's broken (DE602)
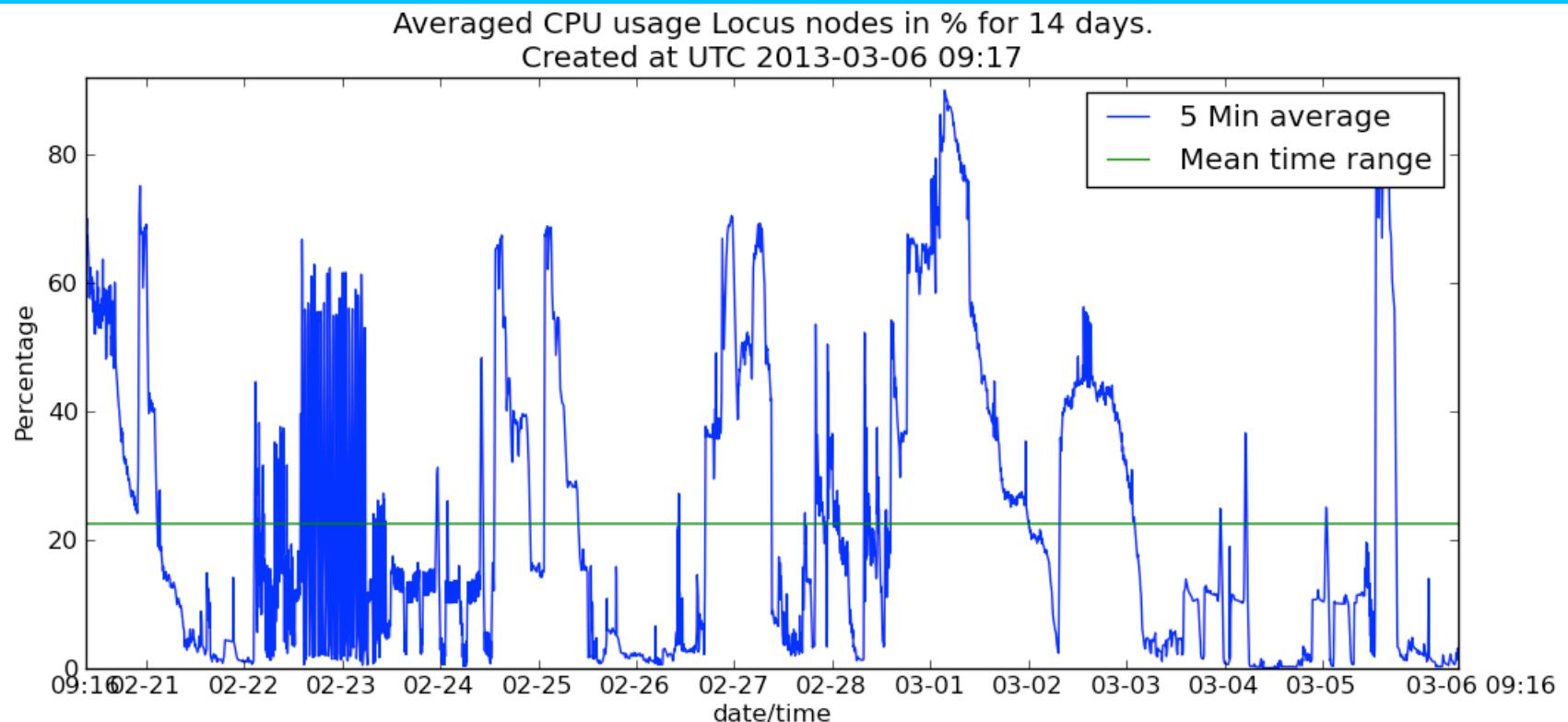
- Oscillating tiles: CS026

- Station tests (HBA)

    ✓ new station-test allows for easier detection

    ✳ but may flag too robust or miss sparsely intermittent

    ✳ flagging on element level

LOFAR

ASTRON

- Development

  ✓ focus: bug fixes, preparation/scheduling-efficiency improvement

  ✓ current sprint extended, next rollout March 26

  ✓ XML generator for preparation of cycle 0 runs

    - Ongoing tests: automatically generated pipelines (v8)

- Updates of MoM, Scheduler and SaS/MAC to improve functionality and stabilize the system

  ✓ SAS003: scheduling faster

  ✓ ingest and observations on separate systems

News regarding the observing system: Tests, MSSS, other

- Station tests, monitoring etc... continue
- Continuation MSSS HBA survey
  - ✓ 1 new 8hr blocks
  - ✳ on hold currently due to archiving issues

- VHECR stand-alone

- Commissioning
  - ✓ Cyg A HBA low (J. McKean)

News regarding the observing system: Archive

- BF LTA ingest top-item for current development sprint

- Raw/processed data ingest to LTA (LC0) is ongoing
  - ✳ Hanno Holties

- LC019 data transferred to Target cluster

- Processed LC0 data transferred to CEP1 for expert processing (maximum of 4 weeks)

News regarding Cycle 0 observations

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

- Cycle 0 continuing at >30% efficiency

  ✳ limited by data flow

- Projects (including test observations):

  - 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

- Local use Int-stations:

  - LC0_010, LC0_014, LC0_044

Proposal Schedule March-April 2013 - NB: Excludes Regular Observations

CEP news:
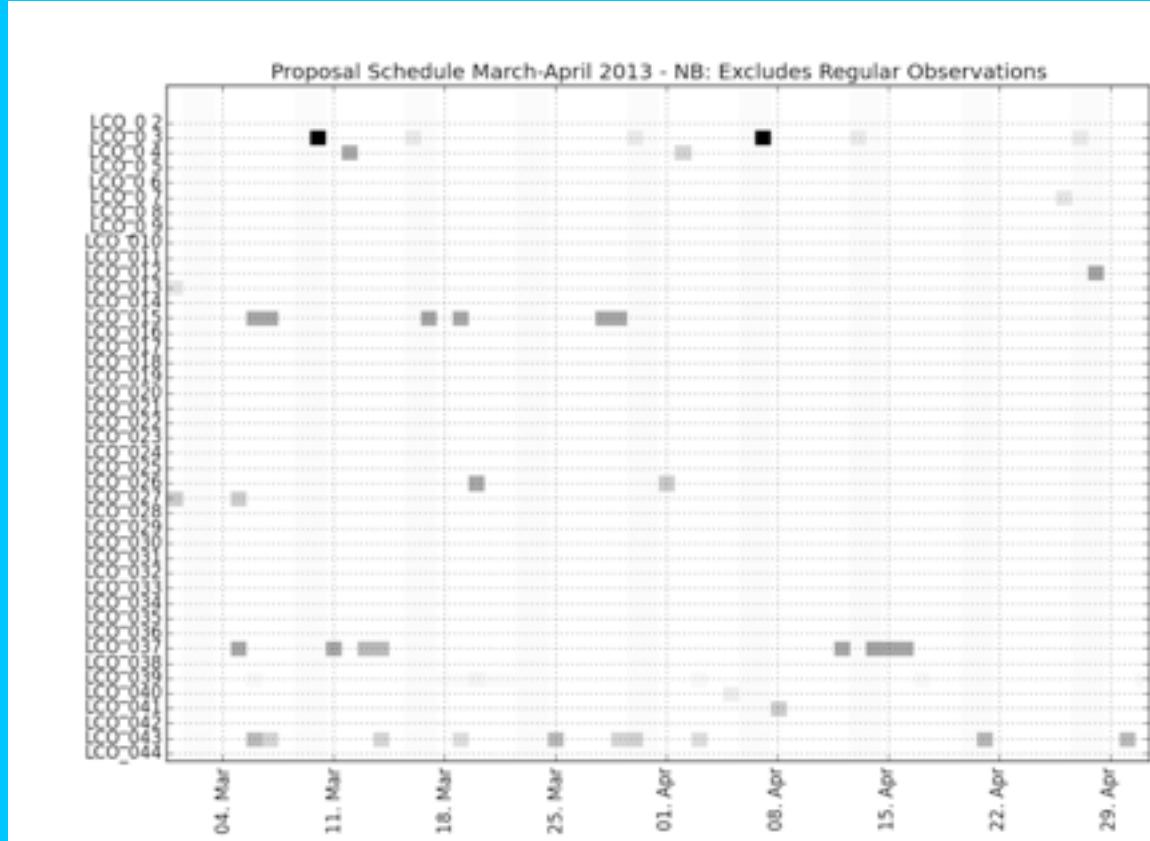
- Stop-day: OK
  - ✳ SAS003 database overwritten --> 1 day recovery

- CEP1 & 2 are stable
  - ✳ some nodes lost a disk, RAID rebuild takes a ~week (locus008,022,030,041)

- Next stop-day: April 9 (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/commisioning-plan
- Cycle 0
  - ✓ http://www.lofar.org/wiki/doku.php?id=operator:schedule

13	Mar	Busy Wednesday
18-22	Mar	LOFAR Dalfsen 2
13-16	May	MKSP (13-15 workshop + 16-17 busy days)
9	Apr	CEP stop-day