Programme:

1. *Array status – H. Munk*
2. *Observatory update – E. Orru'*
3. *LTA update– A. Renting*
4. *MSSS update - G. Heald*
5. *Using lunar occultation to measure the global redshifted 21 cm signal between 36 and 84 MHz - H. Vedantham*
6. *HBA Tied-Array observations of Radio Recombination Lines - L. Morabito*

Network, CEP status

- Connection problems CS021
- A network cable in Maastricht broke and need to be fixed. DE stations were unreachable for 2 days
- StationControl down - TBB record off on the CS011 & CS030 problem has been fixed and should not happen anymore - keep monitoring

- CEP1 problems in lse019 staging4 not complete for few days - now solved
- CEP2 stable

- BG/P: out of memory 4096 channels! 2048 channels for beamformed data is the limit now

News regarding the observing system

Station station

- Generally problematic: CS032 clock board (TDS) of station CS032, subrack 1 is replaced yesterday...still problematic today

Temperature problems on several stations (early May): CS026,CS032,CS007

- Airco DE603, unusable/fixed
- Clock DE602, unusable being replaced
- DE601: April 18th new antennafiles files adopted for DE601, unfortunately based on a wrong HBA tile rotation (196 degrees instead of 16 degrees).

The implication is that between April 18th and May 16th, ILT observation will have been done with a wrong iHBADeltas file. This affects all HBA observations in that period. Observations in local mode will not have suffered as long as the 1_7 release of the software was used.

News regarding the observing system: Stability & performance

- Overall stability is good:
  - Observations stable
  - Pipelines stable
    - Occasional swapping
    - Specifications errors
- Issues:
- status of mom unreliable both for observations and pipelines: implying a number of manual checks in different system (e.g. logs, OTB, schedule, navigator..) by SciSup
- processing stable: human predictions for duration keeping large margin missing, avoiding overlap of too many processes (memory limit) and crashes.
- batch scheduling IS CRUCIAL to increase the efficiency of the processing and the total % usage of the cluster. Failed pipeline does not restart automatically but human intervention is required, another could start in the mean time.

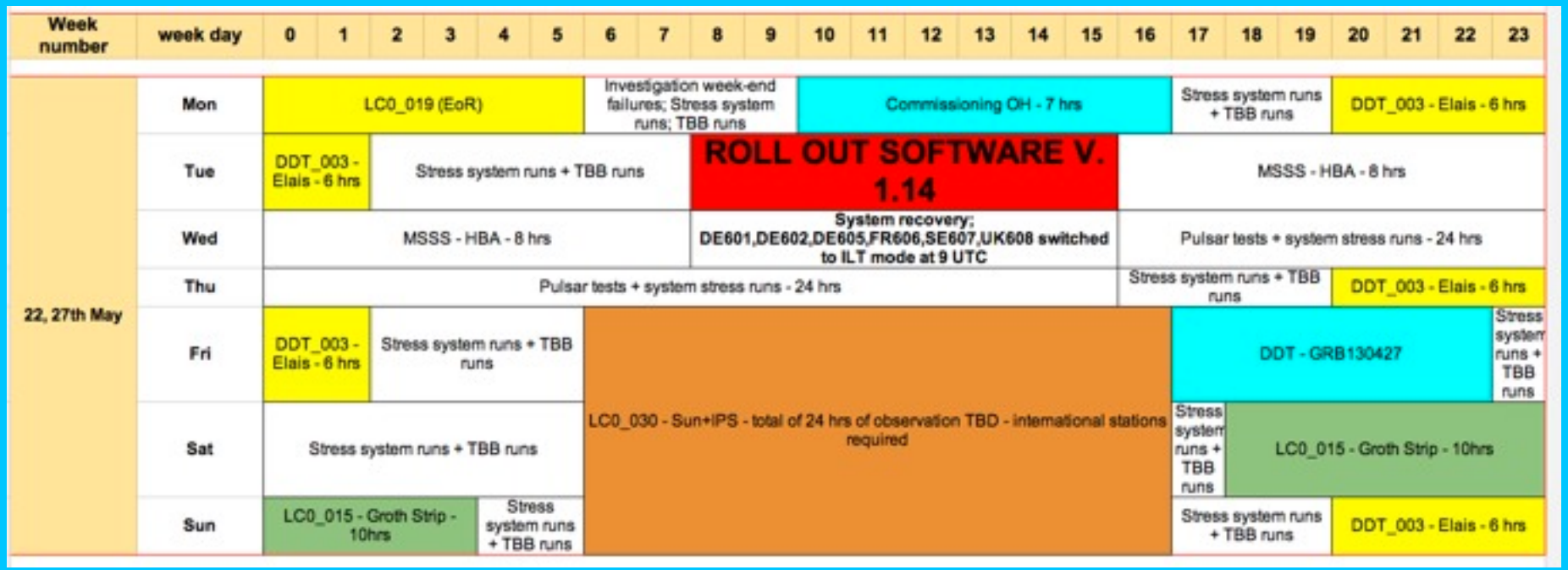
News regarding the observing system : Archive

- Still in queue data from February with incomplete metadata.
- Better with new observation which suffer less of incomplete metadata.
- See A. Renting presentation for more details.

Station calibration

Developing an automatic way to perform it

News regarding Cycle 0 observations



- 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

News regarding Cycle 0 observations

- Cycle 0 above 100% efficiency with respect to 50% efficiency expected
- MSSS HBA – passed from 8 hrs per week to 16 hrs per week - completion of the survey expected middle 2013
- Commissioning (OH Oonk, SgrA* Heald)
- Some DDT proposals submitted and patly accepted. Already scheduled and some of them observed.

Imaging pipeline

characterization 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 versison.

General info

- new demix strategy proposed during the imaging BW 17, under evaluation time for implementing it in NDPPP. Not yet clear when implementation will start for automatic pipeline.
- new version of casapy Casa 4.0.1: old scripts might not work

CEP news:

- CEP-2: stable overall
  - A few locus nodes experienced reboot or hanging, causing crashes of pipelines
- CEP-1:
  - staging areas not archive, old disks not stable no back up. Users should save data on their facilities after these are copied in staging# by SciSup.
  - Users delete old data. RO will send email with the request to delete data older than a certain date. It is in your own interest answering to RO. If no answer data will be deleted with an automatic script without further notification.

CALENDAR of requested busy weeks and other LOFAR activities

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

- June 17 : Imaging Busy Week for experts, Dwingeloo

- June 4 : CEP Stop day