

## Programme:

- 1. Observatory update – E. Orru'*
- 2. MSSS update – G. Heald*
- 3. Fitting ionospheric phase screens with MSSS data - B. van der Tol*
- 4. Imaging compact SNR, Supernova, and AGN emission in M82 and M81 - E. Varenius*
- 5. Variable jet sources in the LOFAR band - recent results on SS433 - J. Broderick*

# Array Status

## Current Status:

- 38 operational NL stations
- 24 CSs
- 14 RSs
- 8 ISs
  
- NL stations CS TBB memory upgrade installation completed, RS started
- Possible cause found for high temperature/RSP problems: design error in TDS (Time Distribution System) board
- Rb-clock UK608 broke down on August 20 (after SyncOptic installation), new clock will be sent this week
- SynOptic installed on DE605, SE607
- RS106: broken Rb-clock, replaced

[www.astron.nl/radio-observatory/astronomers/current-status](http://www.astron.nl/radio-observatory/astronomers/current-status)

## DE604:

- ❑ HBA tiles are rotated of 180 degrees with respect to the what expected from the specification for the station layout.
- ❑ Loss of sensitivity. Problem identified and solved

RS210: New station calibration Mode 5.

## ☒ CEP2:

- ☒ Some nodes becoming full: due to incompatibility of new mom release archiving is suspended for the moment

## ☒ CEP1:

- ☒ Heavy users of /data areas are requested to **clean up their data regularly**. Please remember that CEP1 is for current processing of data. It is not an archive.
- ☒ Staging areas are getting full. Cycle 0 pipeline data have a grace period of 4 weeks in these areas.
- ☒ Nodes becoming increasingly unstable: Please ensure important data are backed up elsewhere.

# News regarding the observing system: Stations



- ☒ Operations are now suspended for 2 weeks to put in place the network infrastructure needed for COBALT. The user might experience sporadic network problems with MOM, LTA, CEP etc.
- ☒ CEP-I/II available except on Tuesday-Friday 10-13
- ☒ We will continue to observe remaining Cycle 0 time during the extension.

# News regarding the observing system: Stability and performance

- ☒ Overall stability is good:
  - ☒ Observations are stable.
  - ☒ Pipelines are mostly stable, but heavy memory usage on locus nodes sometimes causes problems.
- ☒ Issues:
  - ☒ Scheduling of pipelines is still a manual process leading to overload or under-use of CEP2 on occasion.

If you can not find all your data please check:

#	Observation Id	Observing Mode	Antenna Set	Instrument Filter	Channel Width [MHz]	Number Of SubArray Pointings	Start Time	Duration [s]	Nr Stations Core	Nr Stations Remote	Nr Stations International	Number Of Stations	Number Of Correlated DataProducts	Number Of BeamFormed DataProducts
67	161492	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 02:54:01	0.0	24	13	0	37	632 / 640	0
68	161491	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 02:51:01	0.0	24	13	0	37	632 / 640	0
69	161490	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 02:20:01	0.0	24	13	0	37	632 / 640	0
70	161489	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 02:17:01	0.0	24	13	0	37	632 / 640	0
71	161488	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 01:46:01	0.0	24	13	0	37	626 / 634	0
72	161487	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 01:43:01	0.0	24	13	0	37	626 / 634	0
73	161486	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 01:12:01	0.0	24	13	0	37	632 / 640	0
74	161485	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 01:09:01	0.0	24	13	0	37	632 / 640	0
75	161484	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 00:38:02	0.0	24	13	0	37	626 / 634	0
76	161483	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 00:35:00	0.0	24	13	0	37	626 / 634	0
77	161482	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 00:04:01	0.0	24	13	0	37	632 / 640	0
78	161481	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-15 00:01:00	0.0	24	13	0	37	632 / 640	0
79	158619	Interferometer	LBA Outer	10-90 MHz	0.0030517578125	2	2013-07-10 17:00:01	0.0	23	13	0	36	0 / 488	0
80	158618	Interferometer	LBA Outer	10-90 MHz	0.0030517578125	2	2013-07-10 17:06:01	0.0	23	13	0	36	0 / 488	0
81	96092	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-02-20 05:07:46	0.0	21	13	0	34	0 / 324	0
82	96083	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-02-20 03:55:45	0.0	21	13	0	34	0 / 324	0
83	96081	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-02-20 03:40:46	0.0	21	13	0	34	0 / 648	0
84	152090	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 04:09:00	0.0	23	13	0	36	324	0
85	152089	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 04:06:00	0.0	23	13	0	36	324	0
86	152088	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 03:45:00	0.0	23	13	0	36	324	0
87	152087	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 03:42:01	0.0	23	13	0	36	324	0
88	152086	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 03:21:00	0.0	23	13	0	36	324	0
89	152085	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 03:18:00	0.0	23	13	0	36	324	0
90	152084	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 02:57:00	0.0	23	13	0	36	324	0
91	152083	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 02:54:00	0.0	23	13	0	36	324	0
92	152082	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 02:33:01	0.0	23	13	0	36	324	0
93	152081	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 02:30:01	0.0	23	13	0	36	324	0
94	152080	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 02:09:00	0.0	23	13	0	36	324	0
95	152079	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 02:06:01	0.0	23	13	0	36	324	0
96	152078	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 01:45:01	0.0	23	13	0	36	324	0
97	152077	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 01:42:01	0.0	23	13	0	36	322 / 324	0
98	152076	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 01:21:01	0.0	23	13	0	36	324	0
99	152075	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 01:18:00	0.0	23	13	0	36	324	0
100	152074	Interferometer	HBA Dual Inner	110-190 MHz	0.0030517578125	1	2013-07-02 00:57:01	0.0	23	13	0	36	324	0

[first](#) | [previous](#) | [1](#) | [2](#) | [3](#) | [4](#) | [5](#) | [next](#) | [last](#)

**Averaging Pipeline 1 to 100 (showing 100 of total 196) ^**

**Calibration Pipeline 1 to 100 (showing 100 of total 188) ^**

**Imaging Pipeline (total 0) ^**



**UnspecifiedProcess 1 to 100 (showing 100 of total 141) ^**

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# 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
36, 2nd September	Mon	COBALT Installation																							
	Tue																								
	Wed																								
	Thu																								
	Fri																								
	Sat																								
	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
37, 9th September	Mon	COBALT Installation																							
	Tue																								
	Wed																								
	Thu																								
	Fri																								
	Sat																								
	Sun																								

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 Extension

- Cycle 0 Extension started.
- Observing efficiency will be reduced to cope with testing for COBALT.
- DDT proposals for the extension are under review.

# Cycle 1 proposal



- North Star tool might give problems to delete items when using the copy function from a Cycle0 proposal
- Some PIs are classifying their proposal as "envelope sheet" while for most of them it should be "regular"
- NB Deadline is at 12 UT !!

# CALENDAR of requested busy weeks and other LOFAR activities

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

- Cycle 1 proposal deadline: 12 UT 6<sup>th</sup> September
- Next Stop Day: 1<sup>st</sup> October
- Imaging Busy Week: 7-11 October
- Cookbook version 13 has been released.