

Netherlands Institute for Radio Astronomy

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ASTRON is part of the Netherlands Organisation for Scientific Research (NWO)

AST(RON

Netherlands Institute for Radio Astronomy

Programme:

1) Array status - H. Munk 2) RO update - E. Orru'

3) The LOFAR network reconfiguration - M. Brentjens

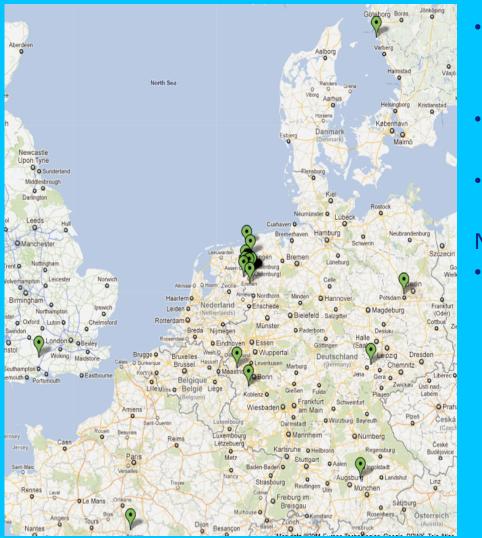
4) Fitting and testing ionospheric phase screens with MSSS data - *D. Rafferty*

5) Exploitation of LOFAR surveys to study galaxy clusters - F. de Gasperin

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Array Status





- 38 operational NL stations
 - 24 CSs
 - 14 RSs
- 8 ISs
- Storm damage: see next slide

Next stop day

• November 5

Storm Damage October 27-28



- NL stations (wind speeds up to 24 m/s, gusts up to 34 m/s*):
 - 8 HBAs: top covers blown off, lids blown off (on 6 different stations)
 - In addition: 64 HBA top covers loose on 15 stations
 - 23 LBAs (on 4 different stations) damaged (RS508: 20!)
 - In addition: 5 LBAs down: repaired
- All HBA damage has been repaired or is being repaired
- LBA damage secured (coax cables): LBAs will be replaced later
- ISs
 - DE601: no damage
 - SE607: no damage (despite gusts up to 38 m/s)
 - UK508: 1 HBA top cover loose, one LBA down
 - DE602: no storm
 - No reports form the other ISs



Network, CEP Status



See presentation by Michiel Brentjens



- Dutch array operational
- Last week problems with: RS508 RS503 RS306 RS307 to be fixed CS013 CS021 fixed now
- Not operational with ILT due to capacity problems. It will be investigated after 11 UT today when IS are back in ILT mode

STATION CALIBRATION

New mode 5 tables will be installed on RS after the LSM



project were suspended until 23-10-2013.

				B 1 - 17											-										
43, 21st October	Mon	Station test							SYSTEM UNAVAILABLE SYSTEM UNAVAILABLE																
	Tue																						-		
	Wed	SYSTEM RECOVERY							SYSTEM RECOVERY										LC0_019 (EoR) 12h NCP						
	Thu	LC0_019 (EoR) 12h NCP							SYSTEM RECOVERY										LC0_019 (EoR) 12h NCP						
	Fri	LC0_019 (EoR) 12h NCP							Stress system runs and TBB runs									LC0_02	C0_028 - Cygnus A - 4hrs Stress and LC0_007 - TBB runs						
	Sat	Stress system runs and TBB runs UD:00-03:00							sars				Stress system runs and TBB				fBB run	3 runs DDT0001 - M33 - 10							
	Sun							Stress syster runs and TBB runs	rsten uns Pulsars und BB										LC0_043 - M33 -10 hrs HBA						
Week number	week day	0	1	2	3	4	5	6	7	8	9	10 1	1	12	13	14	15 10	17	18	19	20	21	22	23	
44, 28th October	Mon	LC0_043 - M33 -10hrs							Stress system runs and TBB runs; DE601, DE602, DE603, DE605, FR606, SE607, UK608 switched to local mode at 9 UTC											LC0_019 (EoR) 12h NCP					
	Tue	LC0_019 (EoR) 12h NCP							Stress system runs and TBB runs LCO_C									003: ze	03: zenith strip 24 hrs						
	Wed	LC0_003: zenith strip 24 hrs; DE601, DE602 switched to ILT n														runs	uns Pulsars								
	Thu	Pulsars LC0_013 - Yz CMi - 3 ho						Stress survives and								Cas/Cy	s/Cyg - 10hrs					Stress system runs and TBB runs			
	Fri	Stress system runs and TBB runs	system runs and 01:00-03:00 LC0_013 - Yz CMi - 3 hou						s Stress system runs and TBB runs												MSSS-8h				
	Sat		MSSS - 8hrs							Stress system runs and TBB runs													LC0_04 J0332+ 2hrs		
	Sun		LC0_04 Stress system runs LC0_003 - Str J0332*f and TBB runs PanSTARRS						ss syst TBB	em runs	s and			Pulsars						Stress system runs and TBB runs					



- Few DDT projects have been cancelled due to the delay generated by the network reconfiguration. PIs have been informed.
- Cycle 0 projects that will not be finished in time will be postponed to Cycle 1 with lower priority.
- LOFAR PC meeting last week assigned 1605 observing hours for Cycle 1. PIs have been preliminary informed. Detailed reports from the PC will be distributed in the next weeks. If not 100% of requested observing time was granted, PIs will be requested to provide a list of selected targets within one week from the notification email.





CEP2

- Cleaning up as much as possible in view of Cycle 1.
- locus071 two broken disk. Investigation on going.

CEP1

• Remove your intermediate data and back up as much as possible.

BUG REPORTED:

Affects old systems, e.g. Ubuntu 10.04. The issue is that some conversion between numpy and python types do not work properly.

CEP computers seem to have sufficiently new versions, but it is possible that people are still using older systems where things may go wrong.





- Operational again after the network problems
- Script to ingest PSR data is ready to be tested
- Problems to transfer data to Manchester under investigation

CALENDAR of requested busy weeks and other LOFAR activities



4 Nov Roll out (Monday)
5 Nov Stop day (Tuesday)
13 Nov Next LSM
14 Nov End of Cycle 0
15 Nov Start of Cycle 1