

Programme:

- 1. Array status & Observatory update – R. Pizzo*
- 2. COBALT update – H. Holties*
- 3. LTA status- A. Renting*
- 4. Results and plans of the Calibration and Imaging Tiger Team
– T. J. Dijkema*

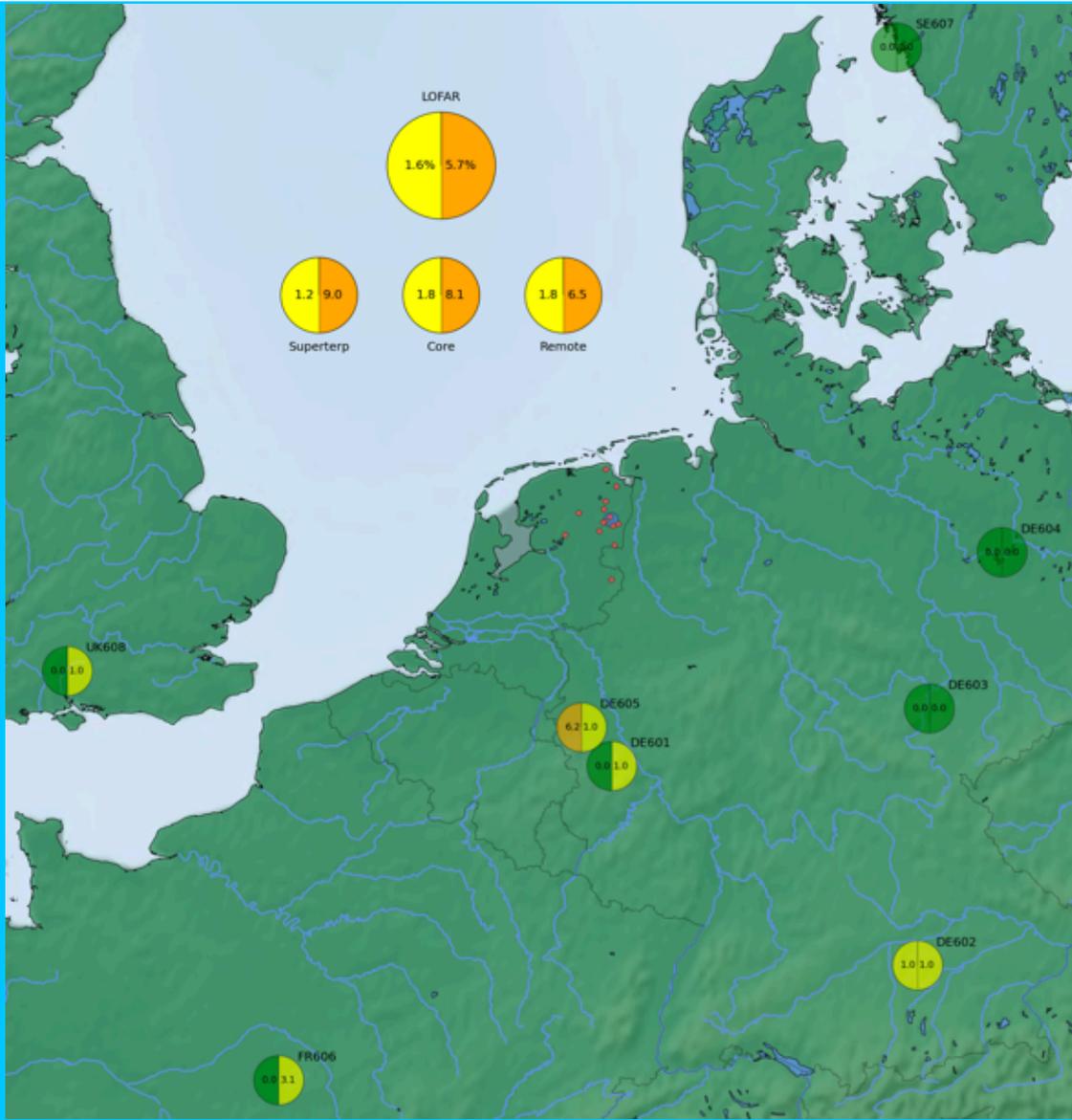
Array Status



- 38 operational NL stations
 - 24 CSs
 - 14 RSs
- 8 Is
- RS503 was found unexpectedly without power. No problems found after startup station
- CS201 TDS board replaced with 200MHz-PLL lock problem
- Maintenance/Repair started 1 April (started on worse stations CS002, CS006 and CS501)
- Maintenance visit DE603 and DE604. Only minor HBA repairs (a few elements). The status of the station is very good
- 160<->200 MHz mode switching under test

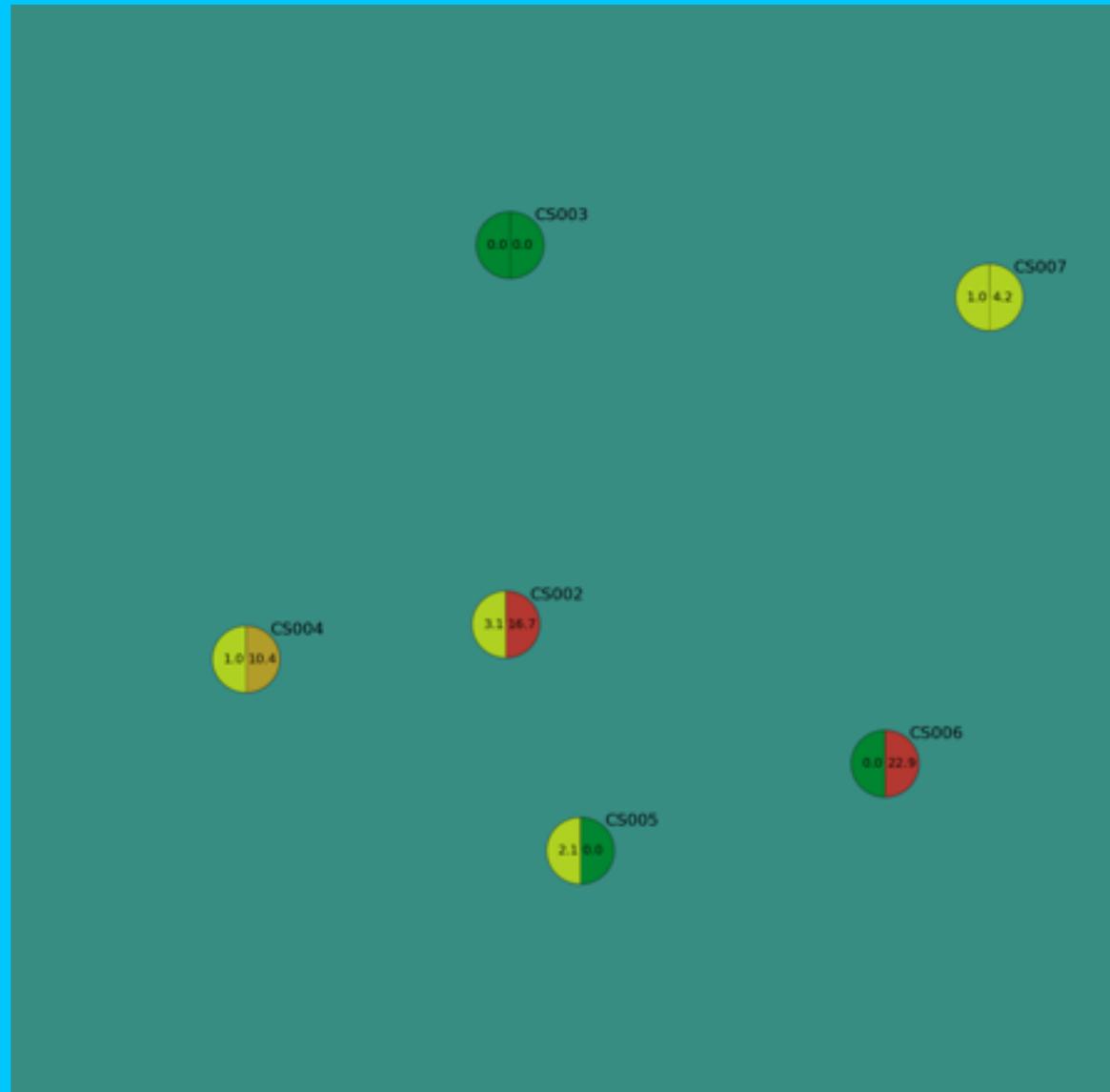
Overview, including IS

LBA: 1.6%; HBA: 5.7%



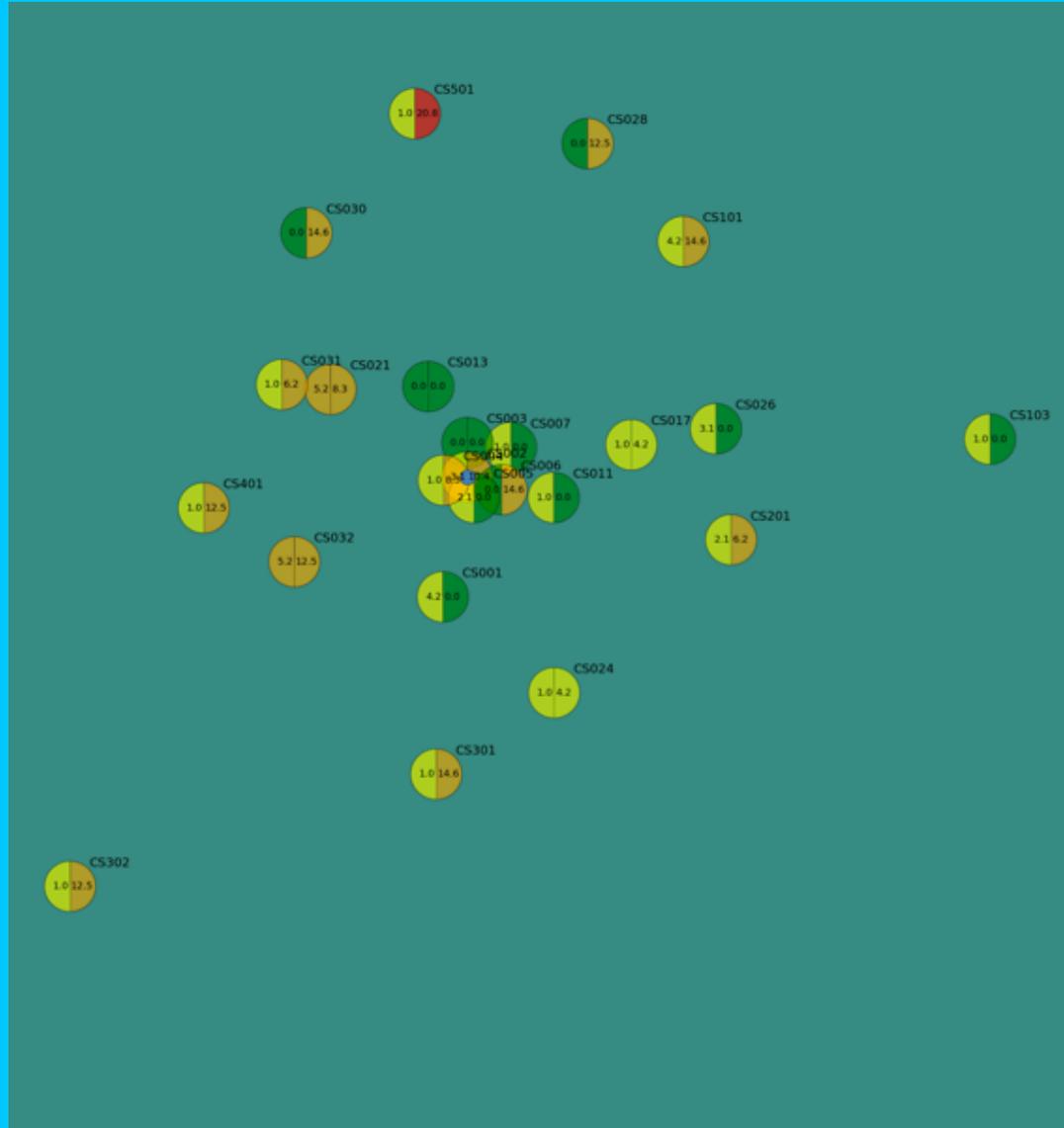
Superterp

LBA: 1.2%; HBA: 9.0%



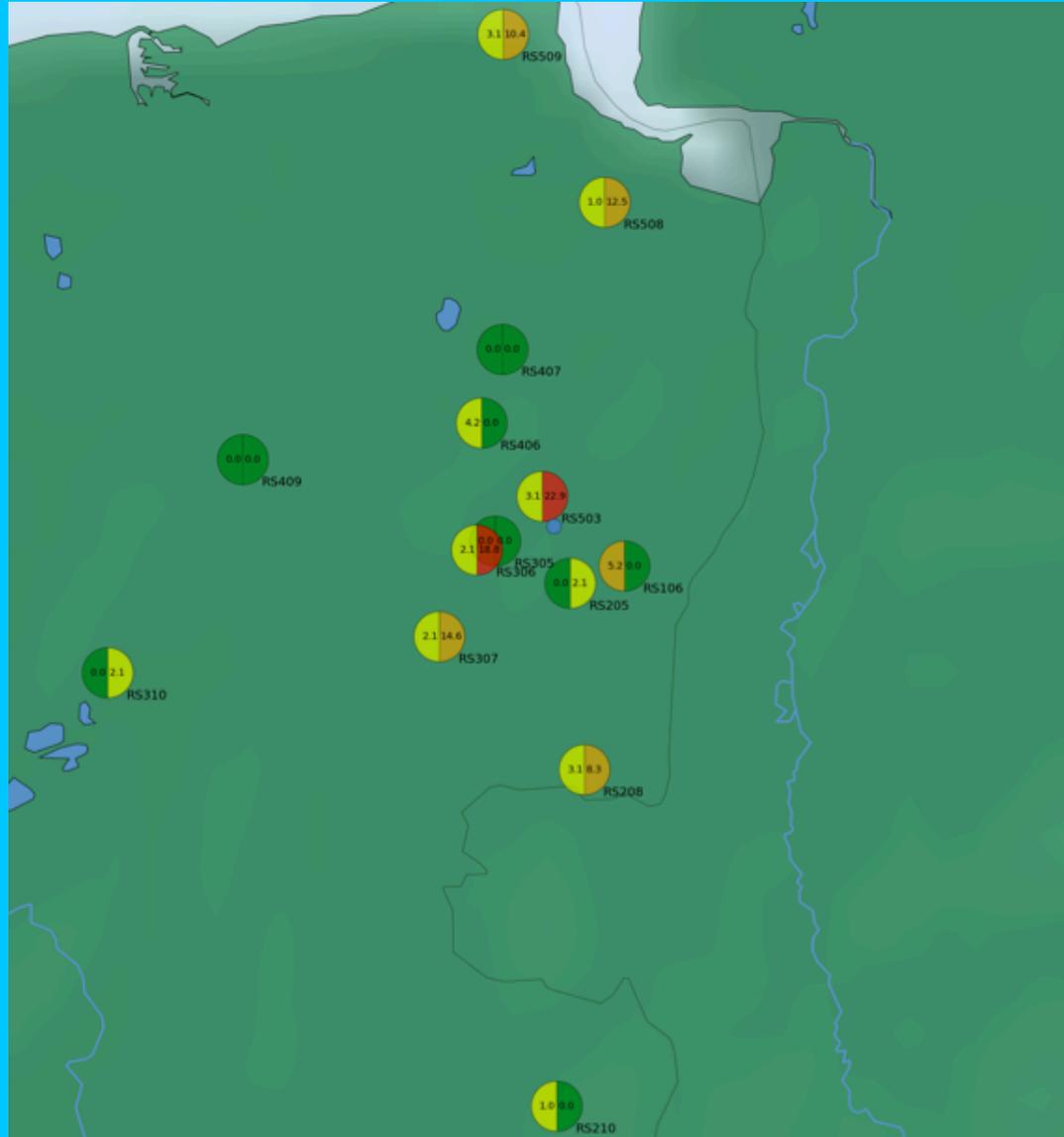
Core Stations

LBA: 1.8%; HBA: 8.1%



Remote Stations

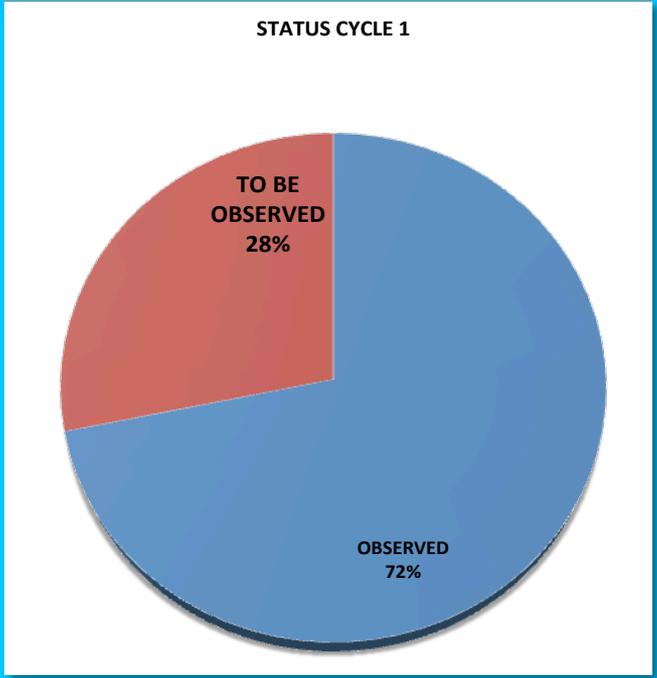
LBA: 1.8%; HBA: 6.5%



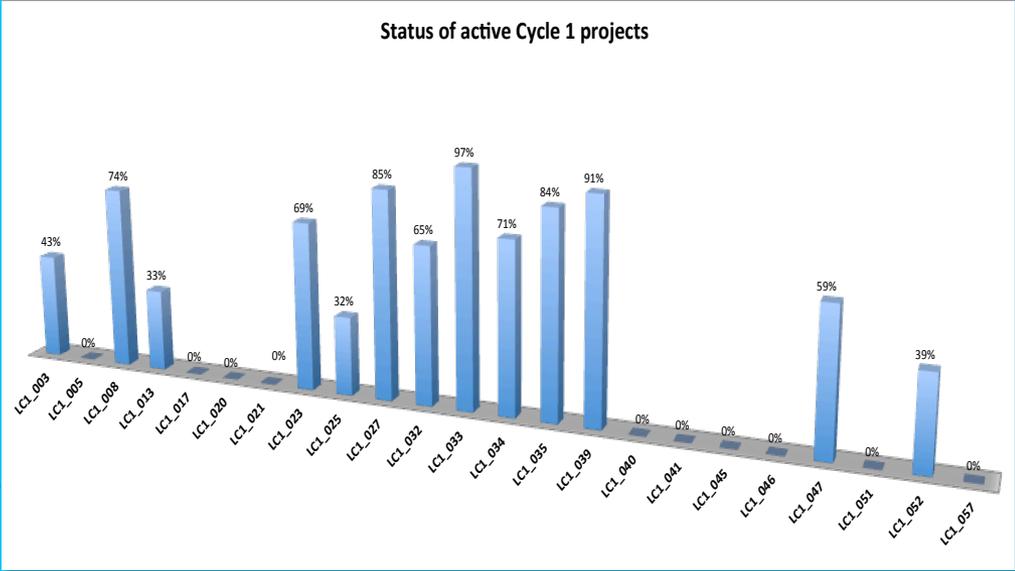
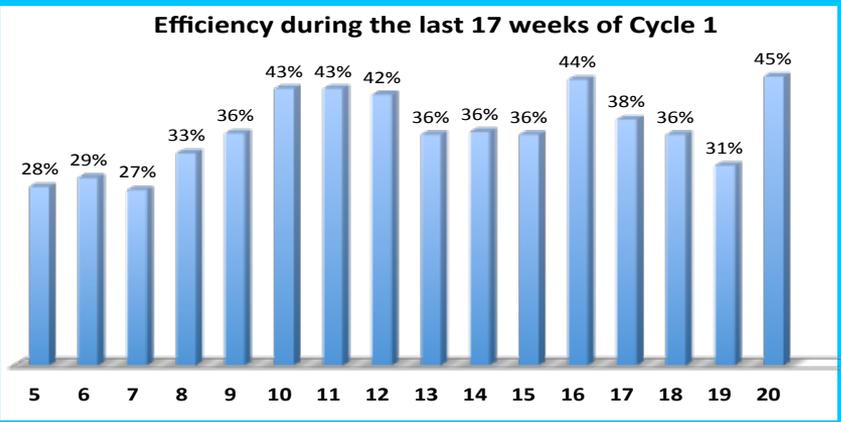
News regarding the observing system: Stability & performance

- Intermittent oscillating HBA tiles more under control thanks to test FE observations during and in between production runs – work in progress
- Interferometric observations performed fine (till Monday this week) – COBALT adopted in this case, on a best effort basis -> manual action needed to switch between BG/P and COBALT
- BG/P still available, but without a service contract
- Recurrent issues with ILT runs involving international stations – Installed latest flash image version on all switches. Verification in progress
- Roll out software version 2.2 -> issues in production have been experienced.
Investigations in progress
- Pipelines:
 - a few failures experienced during the past 3 weeks -> hanging locus node – rebooted
 - swapping on a few CEP2 nodes due to processes running longer than expected

News regarding the observing system: Cycle Observations



- 19 projects completed – 1150 hours observed successfully
- ~ 330 hours scheduled for completion by 14 May
- LC1_039, 052, 020, 051 will not finish → will continue during Cycle 2



News regarding the observing system : Archive



- Issues with download server at Juelich (etc...) affecting users trying to retrieve data
- Issues with a few ingests initiated during the last few weeks – manual action was needed to fix the problems – in progress
- More in Adriaan's talk

News regarding Cycle 1 observations

Week 16		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	ROCR
Approximate LST			14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	Duty
April	14	Mon	LC1_047 A2065 10 hrs					Stress system runs		Software roll-out; all international stations (except DE604) switched to ILT mode at 9 UTC								Stress system runs		LC1_021 - NGC5055 - raw data to LTA			RAF				
	15	Tue	LC1_021 - NGC5055 - 9hrs			Stress system runs		LC1_003 - repeats - CANCELLED										LC1_014 (Commissioning time) - 24hrs			RAF						
	16	Wed	LC1_014 (Commissioning time) - 24hrs										LC1_008 - Herschel ATLAS 2 - 8hrs			CT											
	17	Thu	LC1_008 - Herschel ATLAS 2 - 8hrs		LC1_023 - LSTs 15, 16		Stress system runs		LC1_023 - S2433 - 2x0.5hrs		Stress system runs		LC1_023 - LSTs 22		COBALT TESTING		LC1_023 - LSTs 02, 07		Stress system runs		LC1_023 - Monthly LST 05-06		LC1_008 - Herschel ATLAS 3 - 8hrs			RAF	
	18	Fri	LC1_008 - Herschel ATLAS 3 - 8hrs		LC1_035 - Monthly LST 16-19			Stress system runs + TBB runs			LC1_025 - Sun - 6hrs; all international stations (except DE604) switch to local mode at 9 UTC								COBALT TESTING		Stress system runs + TBB runs			LC1_008 - Herschel ATLAS 4 - 8hrs	RAF		
	19	Sat	LC1_008 - Herschel ATLAS 4 - 8hrs		LC0_035 - SGR 1900+14 - 3hrs			LC1_052 - LOTAAS - 10hrs								Stress system runs		LC1_017 - Abell 2142 - 10hrs			(RAF)						
	20	Sun	LC1_017 - Abell 2142 - 10hrs					Stress system runs		MSSS - LBA - TEST OBSERVATION								Stress system runs		LC1_017 - Abell 2142 - 9hrs			(RAF)				
Week 17		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	ROCR
Approximate LST			14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	Duty
April	21	Mon	LC1_017 - Abell 2142 - 9hrs					Stress system runs		LC1_025 - Sun - 5.25hrs					Stress system runs + TBB runs					LC1_032 - LSTs 12-17 - 8x1hr obs			-				
	22	Tue	LC1_032 - LSTs 12-17 - 8x1hr obs			Stress system runs		LC0_035 - RX J2143.0+0654 - 3hrs			Stress system runs		LC0_035 - AXP 4U 0142+61 - 3hrs			Stress system runs		LC1_014 (Commissioning time) - 24hrs					RAF				
	23	Wed	LC1_014 (Commissioning time) - 24hrs										LC1_041 - HESS J0632+057 - 3hrs			Stress system runs		LC1_039 (EoR) - NCP			CT						
	24	Thu	LC1_039 (EoR) - NCP				LC1_035 - pulsar repeats		COBALT TESTING								LC1_035 - pulsar repeats			LC1_035 - pulsar repeats	RAF						
	25	Fri	LC1_035 - pulsar repeats		LC1_035 - RRAT J1537+23 - 1hr		LC1_035 - pulsar repeats		LC1_051 - LSTs 18-19 - 2hrs			LC1_035 - 3xRRATs - 3x1hr													RAF		
	26	Sat											??MSSS - LBA - TEST OBSERVATION ??					LC1_039 (EoR) - NCP			(RP)						
	27	Sun	LC1_039 (EoR) - NCP				LC1_052 - LOTAAS - 10hrs													(RP)							

➤ Detailed Cycle 1 schedule available here:

- <https://docs.google.com/spreadsheet/ccc?key=0AtnmDczhIbEtdGQ4enZicHpGREpGYm1Pc2JrQWIZWmc&usp=sharing#gid=0>

➤ Contact Science Support in case of questions/issues

➤ **Always cc 'sciencesupport@astron.nl' and include the proposal code in the subject line**

➤ CEP2

- Locus012,030,038,052,073,093,099 -> minor issues

➤ CEP-3

- Delays in the commissioning of the new cluster due to failing hardware components and developments w.r.t the scheduler that will be part of the access system – expected delivery middle of May, first for Beta testers
- CEP 1 users:
- **BACK UP YOUR DATA ELSEWHERE OR GET IN TOUCH WITH SCIENCE SUPPORT AT sciencesupport@astron.nl IF YOU WOULD LIKE TO REQUEST TRANSFER OF DATA TO CEP3 AND HAVE NOT YET DONE SO**

➤ New policy regulating access to CEP3 and data handling available at

- <http://www.astron.nl/radio-observatory/observing-capabilities/depth-technical-information/cycle-1-observing-and-processin>

NEW SUPPORT SCIENTIST & NEW OPERATOR:



Marco Iacobelli
Support Scientist



Richard Blaauw
Operator

- Next LSM : 30 April 2014
- LOFAR Cycle 2 PC meeting : 29 – 30 April 2014
- Next Stop day : 6 May 2014
- Start Cycle 2 : 15 May 2014
- Cycle 3 proposal call : July 2014
- Cycle 3 proposal submission deadline : Early September 2014