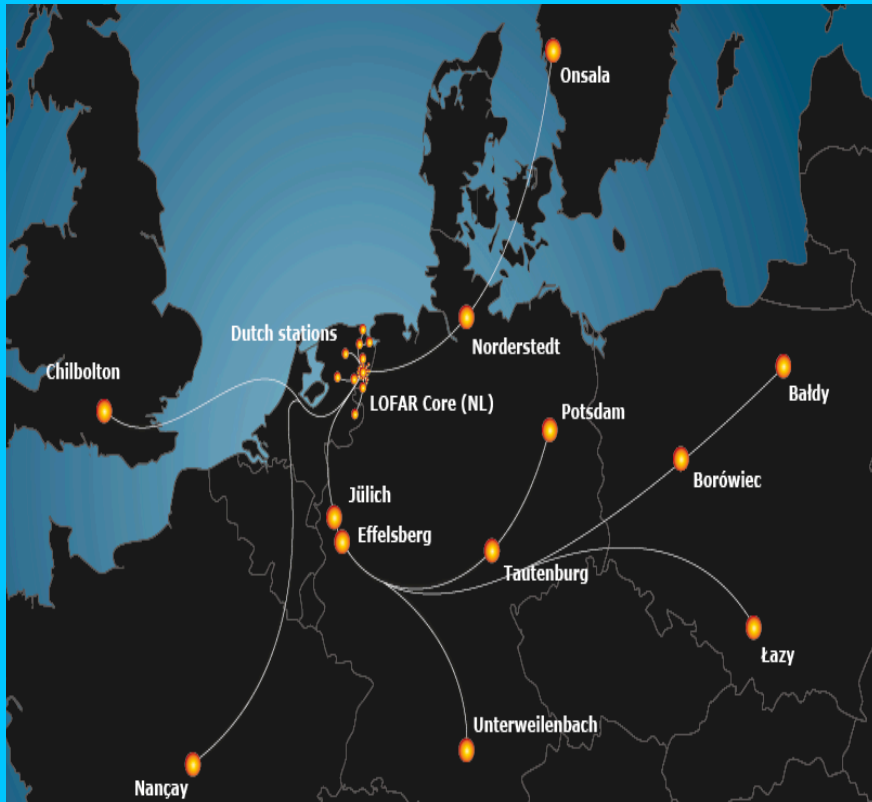


## Programme:

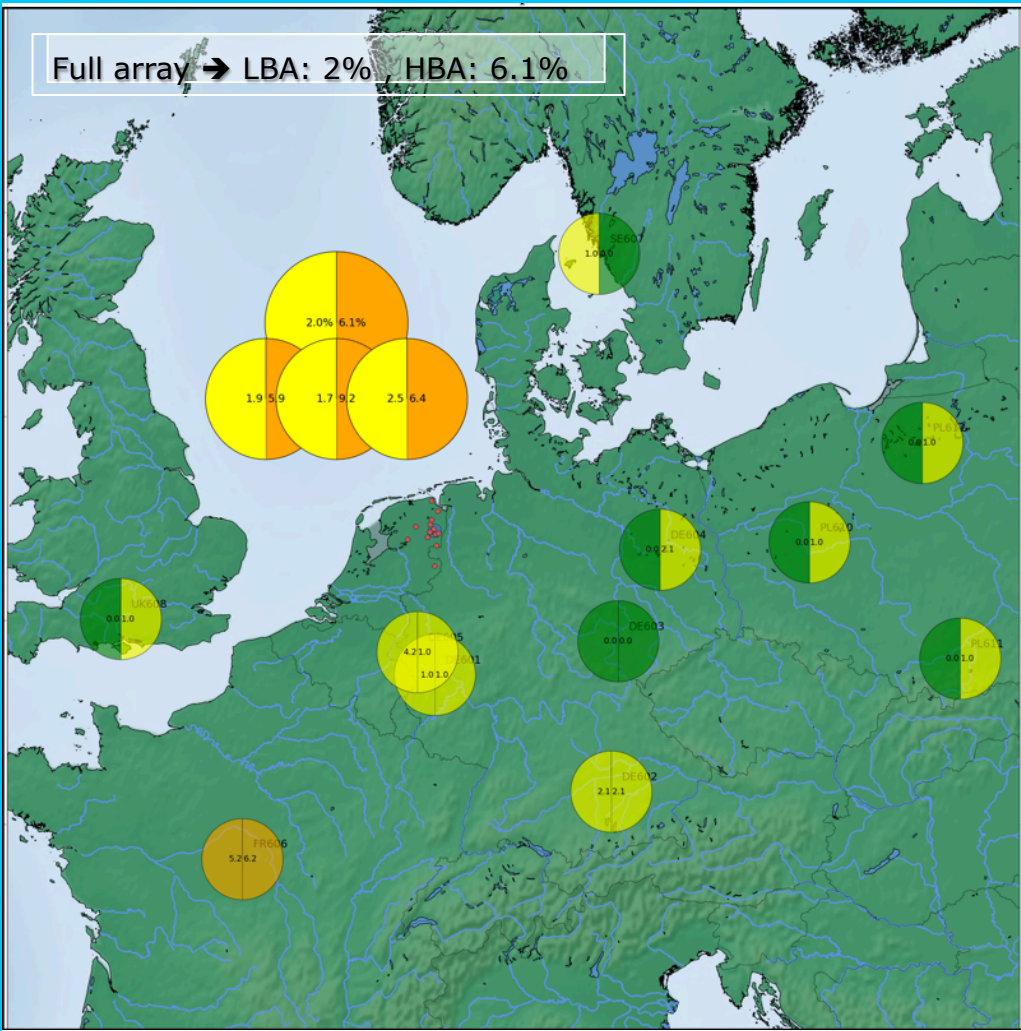
- 1. Array status & Observatory update – A. Shulevski*
- 2. Search and statistical modeling of dying radio galaxies in the LOFAR Lockman Hole - M. Brienza*
- 3. Reaching thermal noise near A-team sources: the Sausage cluster case - D. Hoang*
- 4. AOB*

# Array Status



- 47 operational stations
  - 24 CSs
  - 14 RSs
  - 12 Is
- 3 new stations in Poland. Up and running, to be officially available starting from LC6

# ANTENNA ELEMENTS STATUS



All operational  
< 5% not operational  
< 15% not operational  
> 15% not operational

➤ Current status available at [https://proxy.lofar.eu/array\\_status/](https://proxy.lofar.eu/array_status/)

- Stop day March 1
- The LBA sparse mode is available; final checks completing, calibration tables pending.
- CS031 had an issue with strange polarization behavior in mode 1 (LBA\_OUTER)  
The reason was traced to a wrong calibration table being applied by mistake, it is corrected.

# STATION CALIBRATION



Station	mode 1/2	mode 3/4	mode 5	mode 6	mode 7
RS106	18-06-15	21-09-15	20-04-15	23-12-15	21-01-16
RS205	18-06-15	21-09-15	04-11-15	23-12-15	04-11-15
RS208	18-06-15	12-11-13	04-11-15	23-12-15	04-11-15
RS210	18-06-15	22-07-14	04-11-15	23-12-15	21-01-16
RS305	13-07-15	21-09-15	04-11-15	23-12-15	04-11-15
RS306	18-06-15	21-09-15	04-11-15	23-12-15	04-11-15
RS307	18-06-15	21-09-15	04-11-15	23-12-15	04-11-15
RS310	18-06-15	22-07-14	04-11-15	23-12-15	21-01-16
RS406	18-06-15	21-09-15	04-11-15	23-12-15	04-11-15
RS407	18-06-15	21-09-15	21-09-15	23-12-15	04-11-15
RS409	18-06-15		04-11-15	13-01-16	04-11-15
RS503	18-06-15	21-09-15	20-04-15	23-12-15	21-01-16
RS508	18-06-15	21-09-15	04-11-15	13-01-16	04-11-15
RS509	18-06-15	21-09-15	04-11-15	23-12-15	24-02-15
DE601		04-11-15	19-10-15	23-12-15	19-10-15
DE602		13-07-15	20-04-15	23-12-15	24-08-15
DE603		04-11-15	19-10-15	23-12-15	19-10-15
DE604		03-10-13	19-10-15	23-12-15	19-10-15
DE605		13-07-15	19-10-15	23-12-15	19-10-15
FR606		04-11-15	04-11-15	23-12-15	04-11-15
SE607		04-11-15	19-10-15	23-12-15	19-10-15
UK608		04-11-15	19-10-15	23-12-15	19-10-15
DE609		03-04-15	21-09-15	23-12-15	21-09-15
PL610			29-01-16	29-01-16	29-01-16
PL611			29-01-16	03-02-16	03-02-16
PL612			29-01-16	29-01-16	29-01-16

➤ Current status

<http://www.astron.nl/radio-observatory/astronomers/current-status>

LBA sparse calibration tables under preparation.

# Reminder CEP4

- CEP4 cluster will replace CEP2
  - Head nodes operational, working on interconnectivity.

- Deadline 9 March 12 UT
  - Call for proposals sent out mid January.
  - Update sent out a few weeks ago.
  - Possibility to co-observe with the surveys:

<http://www.astron.nl/radio-observatory/observing-proposals/co-observing-surveys-ksp-team/co-observing-surveys-ksp-team>

# News regarding Cycle observations

## Cycle 5 in progress.

Week 9		UT	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Approximate LST			11	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10
March	29	Mon	LT5_009 - 3C196 - 6hrs HBA	TBB + tests				System tests; All international stations switched to ILT mode at 9 UT				LT5_007 - P031+49 - 8hrs HBA - FAILED (network ILT causing flagging)					TBB + tests									
	1	Tue	TBB	LT5_007 - G15CD(2) - 4hrs HBA			TBB + tests		STOP DAY							Warm-up runs			LT5_009 - 3C196 - 6hrs HBA							
	2	Wed	LT5_009 - 3C196 - 6hrs HBA	Station test			TBB + tests				LT5_004 - LOTAAS - 4hrs HBA			System tests	LC5_019 - PKS J0238+1636 - 4hrs HBA			TBB + tests		DDT5_002 - 55 CnC - 4hrs LBA*		TBB + tests				
	3	Thu	LT5_007 - P237+58 - 8hrs HBA						48-beam complex voltage tests. Michiel Brentjens/Stefan W.				LT5_006 - 4C28.58 - Calibrat or Search	Commissioning2015 - A team - TauA - 9 hr LBA							LC5_009 - GJ406 - 2hrs LBA run2					
	4	Fri	LC5_009 - GJ406 - 2hrs LBA run2	TBB + tests				LT5_003 - Pulsar Timing - HBA			System tests; all international stations switched to local mode at 9 UT						TBB + tests			LC5_017 - P155+60 o01 - 8hrs LBA - CEP3						
	5	Sat	LC5_017 - P155+60 - 8hrs LBA - CEP3			TBB + tests		LT5_003 - Pulsar Timing - HBA																		
	6	Sun	LT5_003 - Pulsar Timing - HBA								TBB + tests	LT5_004 - LOTAAS - 4hrs HBA			TBB + tests		LC5_017 - P155+57 o03 - 8hrs LBA - CEP3									

➤ Detailed Cycle 5 schedule available here:

- <http://www.tiny.cc/LC5>
- **\*\*Always cc 'sciencesupport@astron.nl' and include the proposal code in the subject line\*\***



# CALENDAR LOFAR activities



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## RADIO OBSERVATORY

### LOFAR

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- ( Cycles: Allocations and Observing Schedules
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- ( LOFAR Policies
- ( LOFAR MSSS
- ( Station Status
- ( Roll-out status

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### LOFAR TOOLS

**LOFAR Data Size Calculator**  
 Tool to compute the expected data size for Beamformed and images.

**LOFAR Frequency-to-SB converter**  
 To convert a correlator SB into an observing frequency and vice versa.

**LOFAR Image Noise Calculator**  
 Tool to compute the expected noise for imaging observations

**LOFAR Management of Measurements (MoM)**  
 GUI tool for creating and editing observations to be run using the correlator.

**LOFAR Long-Term Archive (LTA)**  
 The Long-Term Archive of LOFAR data. Use this tool to retrieve data in the public domain. Usually data are released into the observation.  
 If you encounter any issues using these tools, please email: s...

### LOFAR

- ( Observing Proposals
- ( Asking for time
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- ( LOFAR Data Archive
- ( LOFAR Documentation
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- ( Calendar LOFAR Activities

Mon	Tue	Wed	Thu	Fri	Sat	Sun
29	30	31	1	2	3	4
LOFAR Busy Week - LEIDEN						
	LOFAR Stop Day	11am LSM (LOFAR Status Meeting)				
7	8	9	10	11	12	13
		12 UT - LOFAR Cycle 6 Proposals				
13	14	15	16	17	18	19
	LOFAR Software Roll Out		11am LSM (LOFAR Status Meeting)			
20	21	22	23	24	25	26
27	28	29	30	31	Apr 1	Apr 2
		11am LSM (LOFAR Status Meeting)				



- Next LSM : 16 March 2016
- Software roll-out : 14 March 2016
- 1<sup>st</sup> LBA Busy Week : ongoing
- 3<sup>rd</sup> LOFAR Users Meeting : 4 April 2016
- LOFAR Science Meeting : 5-6 April 2016
- ILT Technical Operations Meeting : 7 April 2016
- Surveys KSP Meeting : 7 April 2016

**Registration deadline for LOFAR meetings: 14 March 2016**

Full calendar available at:

<https://calendar.google.com/calendar/embed?src=2jkmjaro6ek0kh7tmf9brpf8pk%40group.calendar.google.com&ctz=Europe/Amsterdam>

Note: subscribe to lofar-news and lsm mailing lists:

<http://www.astron.nl/radio-observatory/subscribe-lofar-news-and-lsm-mailing-lists/subscribe-lofar-news-and-lsm-mailing-li>

LSM presentations:

[http://www.lofar.org/wiki/doku.php?id=public:lsm\\_new:start](http://www.lofar.org/wiki/doku.php?id=public:lsm_new:start)