

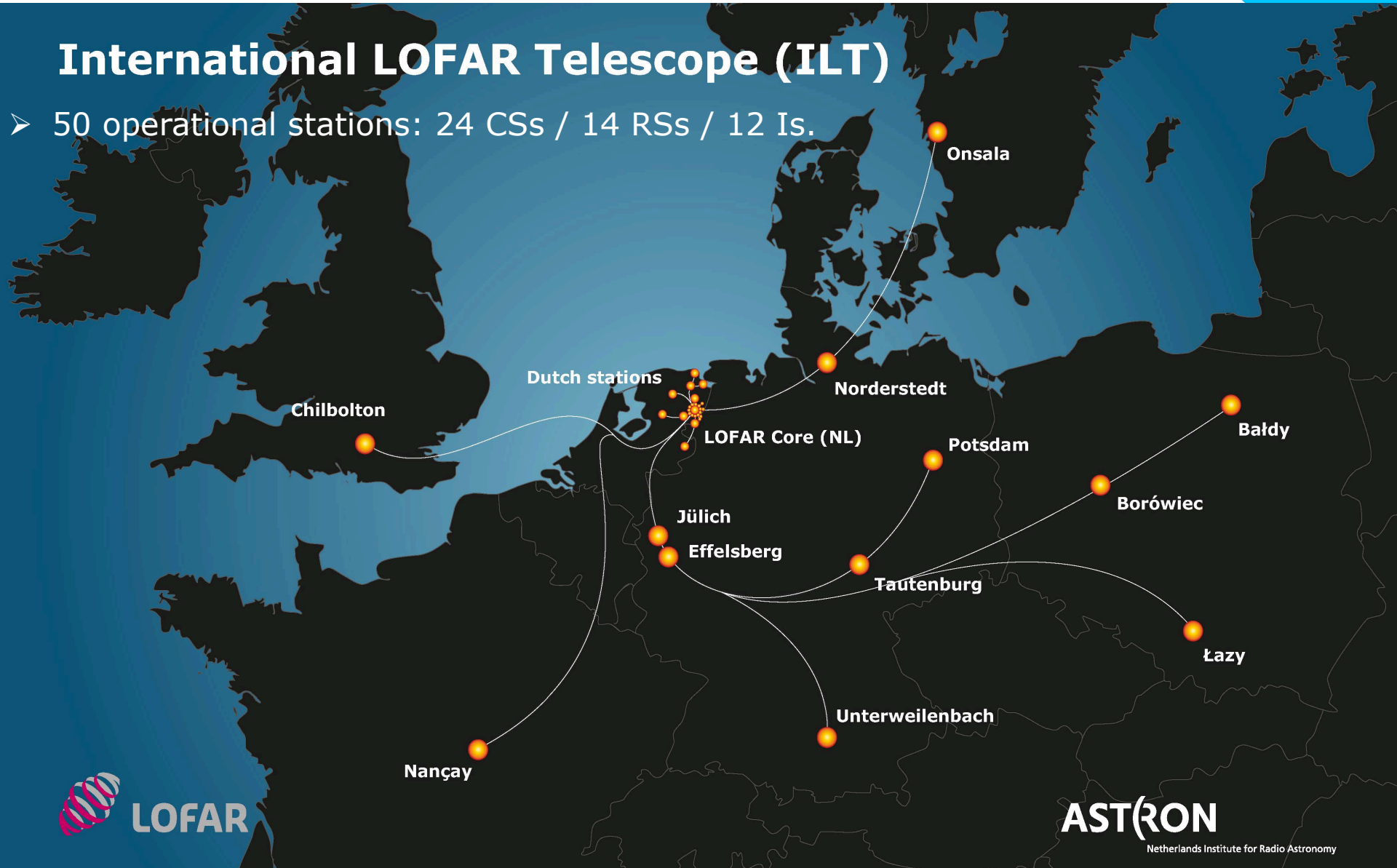
Programme:

1. *Array status & Observatory update – A. Shulevski*
2. Status of Unicore for pipeline processing - S. Frohlich
3. Tied-array commissioning for total power spectroscopy - R. Oonk
4. *AOB*

Array Status

International LOFAR Telescope (ILT)

- 50 operational stations: 24 CSs / 14 RSs / 12 Is.



International LOFAR Telescope (ILT)

- 47 operational stations: 24 CSs / 14 RSs / 12 Is
- Polish stations not yet in regular use.
- Oscillating tiles and noisy elements detected and deactivated from several stations.



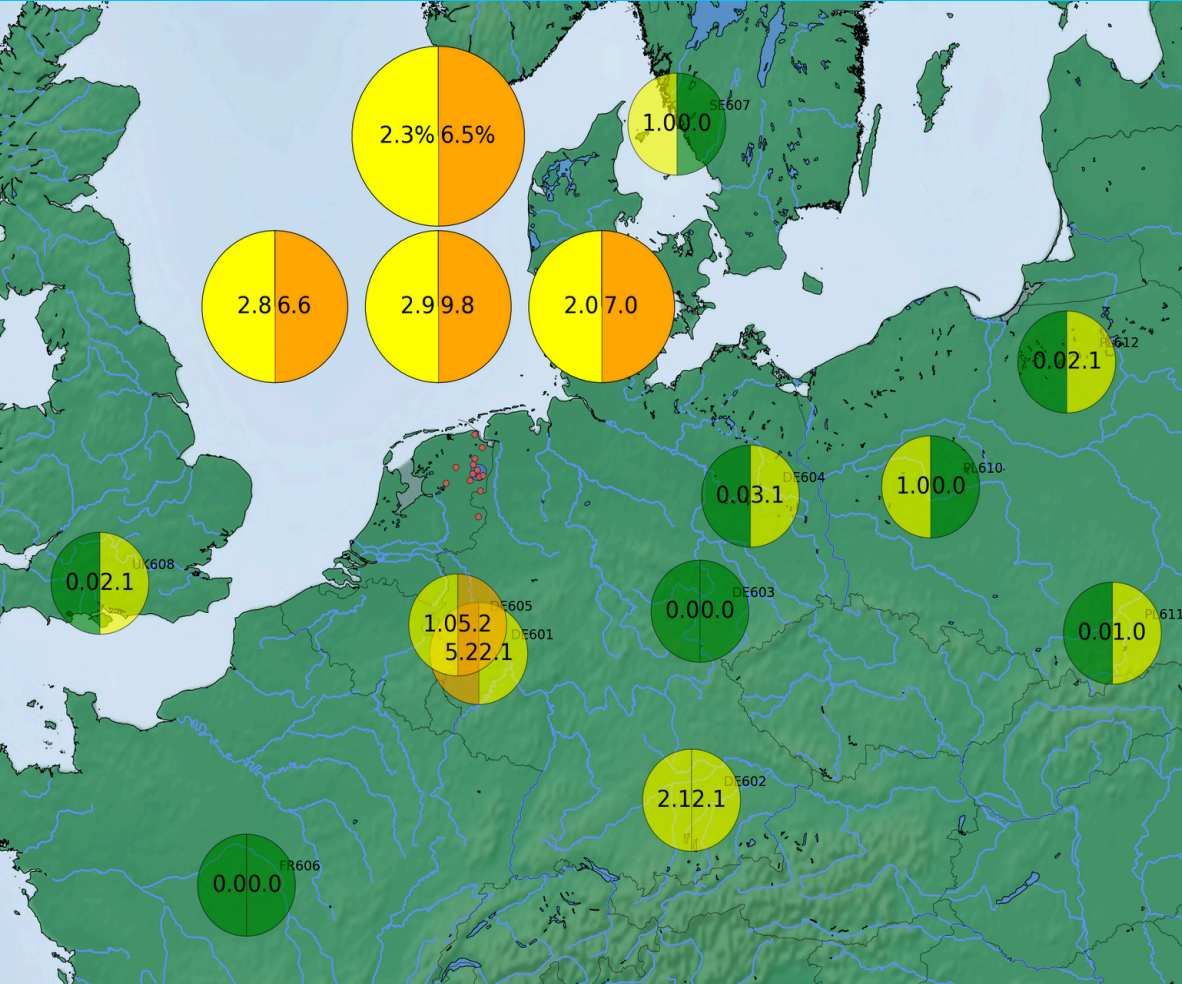
International LOFAR Telescope (ILT)

- 47 operational stations: 24 CSs / 14 RSs / 12 Is
- Polish stations not yet in regular use.
- Oscillating tiles and noisy elements detected and deactivated from several stations.
- Station maintenance progressing slow because of rain and strong wind:
 - Mowing activities and general maintenance ongoing.
 - DE604 airco maintenance.
 - UK608 maintenance this week
 - DE609 operational.
 - PL612 – broken rubidium, replacement sent.

Overview, including IS

LBA: 2.3%; HBA: 6.5%

see https://proxy.lofar.eu/array_status/



Color coding of non-operational components per stations:

- all operational
- <5% non-operational
- <15% non-operational
- >15% non-operational

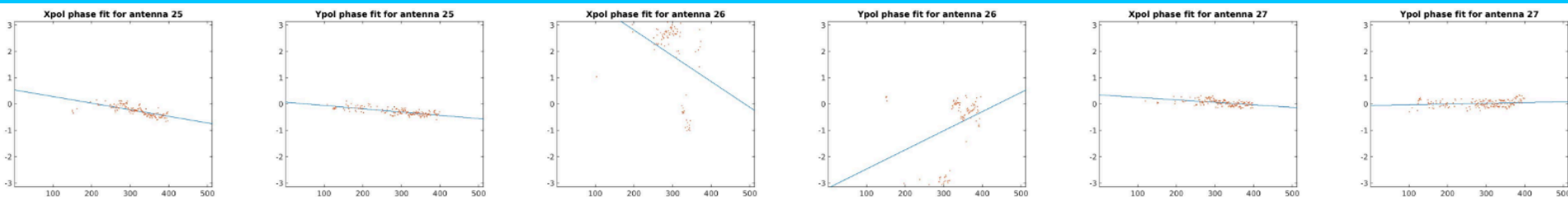
News regarding the observing system



- Minor delay with processing. Minor issues with the ingest.
- Station sensitivities issue: bug in BeamServer/RSP software fixed.
- Station calibration status:
 - Overview available at: <http://www.astron.nl/radio-observatory/astronomers/current-status>
 - PL610: calibration tables all modes for HBA; LBA delayed because of RFI.
 - Calibration tables LBA sparse for Dutch stations in progress.

Calibrating LBA SPARSE

- The calibration of the two LBA Sparse modes (odd and even) is in progress. Data were collected for both modes, but the EVEN run was affected by intense solar activity that led to very poor phase fits. Data in EVEN were collected again last week.
- In general, the calibration of these modes has turned out to be quite challenging. In particular, the performance of the inner dipoles in each configuration is much poorer than the outer ones. This is a known behavior due to the small distances between the inner antenna elements, which does not seem to be mitigated by the fact that in SPARSE only every other dipole collects data.
- Below you have an example of the fits to phases as a function of frequency for LBA Sparse Odd in CS001. Antennas 25 and 27 are located in the OUTER array, while 26 is in the INNER one.
- In Inner elements, points are fewer (after flagging outliers) and poorly aligned.
- Understanding if this is a systematic or episodic behavior will require new data collections and reductions.



News regarding Cycle 6 observations

Week 24	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		17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
June	6 Mon	TBB + tests				DDT6_002 - CygX-1 - 4hrs HBA			System tests; DE604 to ILT mode at 13 UT, all others at 9 UT				A: LT5_007 - P174+57 & P191+60- 8hrs HBA						TBB + tests						
	7 Tue	TBB + tests	LT5_004 - LOTAAS - 4hrs HBA			TBB + tests	STOP DAY						System tests	TBB + tests											
	8 Wed	TBB + tests					LT5_004 - LOTAAS - 4hrs HBA			System tests				A: LT5_007 - P197+60 & P207+60 - 8hrs HBA											
	9 Thu	STATIONTEST		TBB + tests			System tests		A: LC6_025 - Sun - 6hrs HBA				A: LT5_007 - P176+60 & P189+57- 8hrs HBA						TBB + tests						
	10 Fri	TBB + tests					System tests; all international stations to local mode at 9 UT		A: LT5_003 - Pulsar Timing repeats - HBA								A: LT5_008 - J1757 - 6hrs HBA								
	11 Sat	A: LT5_008 - J1757 - 6hrs HBA		TBB + tests					A: LC6_025 - Sun - 6hrs HBA				B: LC6_028 - B0820, B0834 15min HBA	B: LC6_028 - B0919 15min HBA	TBB + tests	LT5_004 - LOTAAS - 4hrs HBA		TBB + tests							
	12 Sun	TBB + tests		A: LC6_030 - B1919+21 B1937+21 B2016+28/B2020+28 B2111+46 118 - 6hrs HBA				A: LC6_030 - B0114+58 J0218+423 2 B0329+54- 3hrs HBA			TBB + tests		A: LC6_030 - B0809+74 B0834+06 B0950+08- 3hrs HBA			TBB + tests		A: LC6_030 - B1508+55 - 1hrs HBA	TBB + tests						

➤ Cycle 6 observing program ongoing:

Detailed Cycle 6 schedule available here: <http://www.tiny.cc/LC6>

➤ Changes can be applied on daily base: in case of questions/issues contact Science Support

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

➤ CEP4

- The commissioning of the cluster has started! First observing, next processing.

➤ CEP2

- Disk space situation not concerning.
- Locus096 and 099 used for spare parts (raid controller).
- Locus095 is planned to be used for spare parts if necessary.

Calendar LOFAR activities:

- Next LSM : 22 June 2016 (volunteers welcome)
- Long-Baseline Busy Week : 13-17 June 2016
- 25th Imaging Busy Week : 4 – 8 July 2016
- LOFAR Data Processing School : 5 - 9 September 2016

- A LSM survey is soon to be circulated to users

- LOFAR Papers:
<http://www.astron.nl/radio-observatory/lofar-science/lofar-papers/lofar-papers>
- All accepted LOFAR DDT projects list:
<http://www.astron.nl/radio-observatory/cycles/accepted-ddt-projects/accepted-ddt-projects>
- LSM presentations list & users suggestions:
http://www.lofar.org/operations/doku.php?id=public:lsm_new:start
- LOFAR news email list:
<http://www.astron.nl/radio-observatory/subscribe-lofar-news/subscribe-lofar-news>