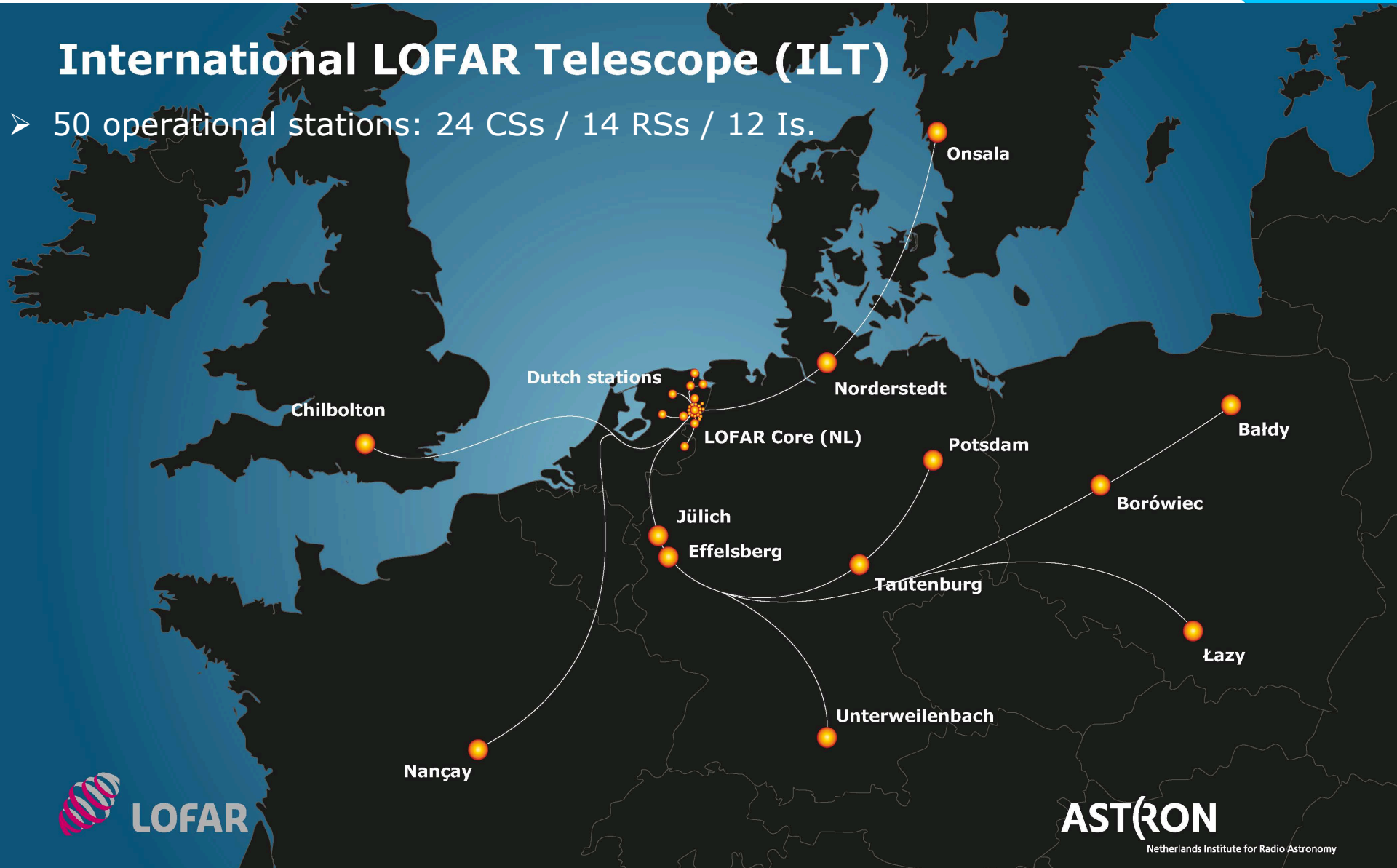# ASTRON

Netherlands Institute for Radio Astronomy

Programme:

1. *Array status & Observatory update – M. Iacobelli*

2. *Results from the LTA survey – L. Cerrigone*

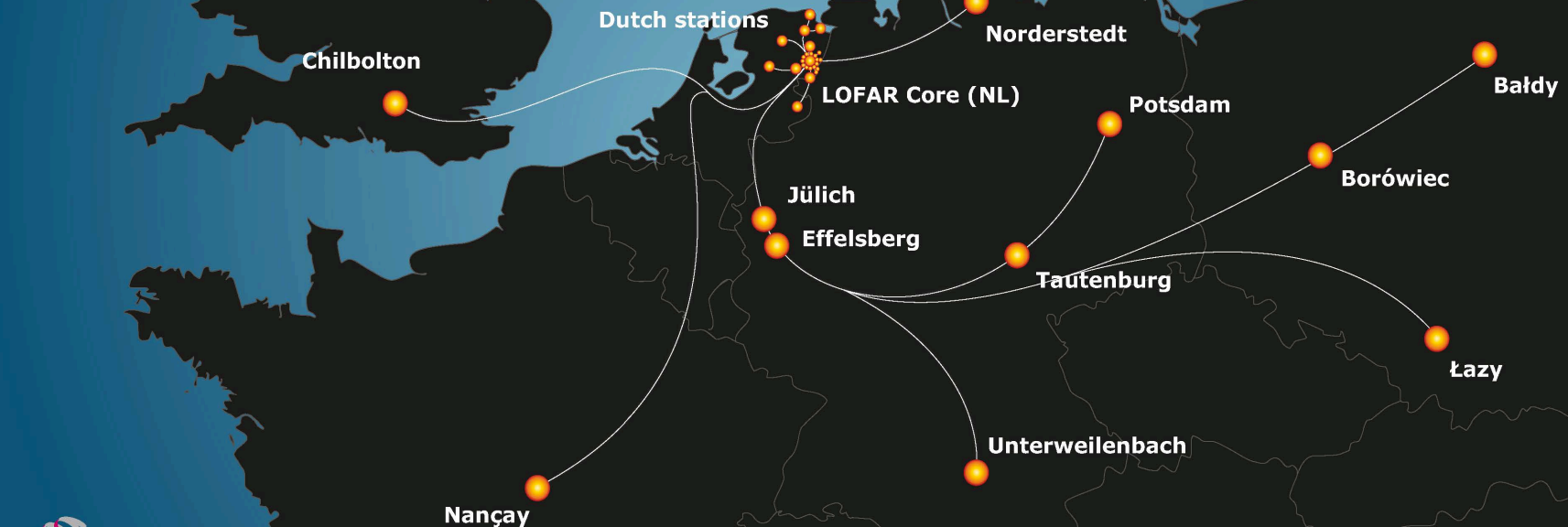3. *Exacopter tests – preliminary results – S. Wijnolds*

4. *AOB*

Array Status

International LOFAR Telescope (ILT)

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

Array Status

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.

Onsala

Dutch stations

Chilbolton

Norderstedt

LOFAR Core (NL)

Potsdam

Bałdy

Jülich

Borówiec

Effelsberg

Tautenburg

Łazy

Unterweilenbach

Nançay

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:
  - CS401 replaced GPS coax
  - CS026 & CS101 SPU fail; 8V module replaced.
  - CS013 software updated; older LOFAR-MAC version 2_15_0 was incompatible with the installed Beamserver, preventing the beams to start.
  - DE609 air conditioning is temporary fixed. Waiting for new controller board.
  - FR606 maintenance completed. Station is working 100% again.

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Netherlands Institute for Radio Astronomy

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

HBA: CS001,CS002, CS004, CS005, CS006, CS017, CS021, CS032, CS101, CS201, CS501, RS210, RS307, RS310, DE605

LBA: CS002, CS021, CS030, CS032, CS401, RS210, RS306, DE601

- >15% non-operational

HBA: CS030, CS301, CS302, CS401, RS306, RS503

News regarding the observing system

➤ Minor delay with processing. Minor issues with the ingest.

➤ Station sensitivities issue: bug in BeamServer/RSP software fixed, with final round of tests ongoing this week.

➤ Station calibration status:

Overview available at: *http://www.astron.nl/radio-observatory/astronomers/current-status*

- Calibration tables LBA outer for Dutch stations.

- PL610: calibration tables all modes for HBA; LBA delayed because of RFI.

- Calibration tables LBA sparse for Dutch stations in progress.

News regarding the observing system

Software roll-out May 23rd 2016: LOFAR release 2.16.3

- Changes / fixings for BBS, NDPPP.

- Inspection plots Link in MoM.

- Implementation of automated release date in MoM

- RTCP bug (causing outputproc crashes in casacore code) fixed

Release notes available at: *http://www.lofar.org/operations/doku.php?id=engineering:release_notes_lofar_2.16*

Upcoming Stop Day June 7th 2016

News regarding Cycle 6 observations

Week 22		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	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
May	23	Mon	A: LT5_008 - J1525 - 6hrs HBA			TBB + tests			SOFTWARE ROLLOUT; all international stations to ILT mode at 9 UT										System tests		A: LC6_020 - FRB - 2hrs - DO NOT MOVE!			System tests			
	24	Tue	SYSTEM TESTS & STATIONTEST																	B: LC6_028 - B0943 15min HBA	TBB + tests		A: LT5_007 - P243+50 & P232+58 - 8hrs HBA				
	25	Wed	A: LT5_007 - P243+50 & P232+58 - 8hrs HBA			TBB + tests			System tests									TBB + tests		B: LC6_028 - J1022 15min HBA	TBB + tests	A: LT5_007 - P239+50 & P236+55 - 8hrs HBA				
	26	Thu	A: LT5_007 - P239+50 & P236+55 - 8hrs HBA			TBB + tests	LT5_004 - LOTAAS - 4hrs HBA		System tests + 160-200 MHz tests								TBB + tests			LC3_007 - LOBOS Commissioning - 3hrs HBA			TBB + tests	
	27	Fri	STATIONTES		TBB + tests		B: LC6_027 - 0206+35 - 8hrs LBA							TBB + tests		A: LC6_020 - FRB - 2hrs - DO NOT MOVE!		LC5_014* - 3C293 - 4hrs HBA repetition			
	28	Sat	LC5_014* - 3C293 - 4hrs HBA repetition	LT5_004 - LOTAAS - 4hrs HBA		TBB + tests	B: LC6_027 - 0206+35 - 8hrs HBA							TBB + tests					LC5_014* - 3C293 - 4hrs HBA repetition
	29	Sun	LC5_014* - 3C293 - 4hrs HBA repetition	A: LC6_030 - B1919+21 B1937+21 B2016+28/B2020+28 B2111+46 118 - 6hrs HBA			A: LC6_030 - B0114+58 J0218+4232 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

➢ 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*

CEP news:

- 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).
- CEP3
  - Disk space of CEP3 commissioning node lof021 75% full !
  - CEP3 info, new policy and users schedule available at:

  http://www.lofar.org/operations/doku.php?id=cep3:start

  - New policy regulating access to CEP3 and data handling also available at:

  http://www.astron.nl/radio-observatory/observing-capabilities/depth-technical-information/cep-and-lta-computing-facilitie

  Many requests of extensions to access CEP3: monitoring of node usage during allocated time is ongoing. The evaluation of future requests will be based on such statistics.

Calendar LOFAR activities:

➤ Next LSM   :   8 June 2016 (volunteers welcome)

➤ LOFAR Ionospheric Workshop   :   2-3 June 2016, Warsaw

➤ Long-Baseline Busy Week   :   13-17 June 2016

➤ LOFAR Data Processing School :   5-9 September 2016

➤ 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