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Programme:

1. *Array status & Observatory update – A. Shulevski*

2. *Update from the Imaging Busy Week 26 – T. J. Dijkema*

3. *Update from the LOFAR Users Committee – A. Bonafede*

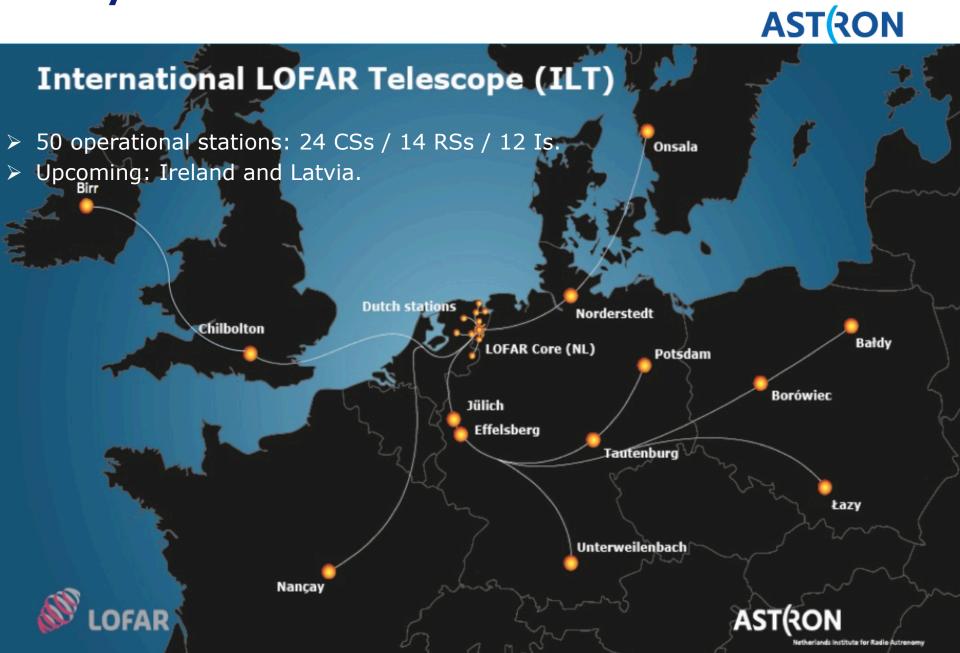4. *Cosmic-ray KSP: review of recent results and future prospects – L. Rossetto*

5. *An update on the LOFAR Two-metre Sky Survey (LoTSS) – T. Shimwell*

6. *AOB*

Array Status

International LOFAR Telescope (ILT)

➢ 50 operational stations: 24 CSs / 14 RSs / 12 Is.
➢ Upcoming: Ireland and Latvia.

Onsala

Birr

Chilbolton

Dutch stations

Norderstedt

LOFAR Core (NL)

Potsdam

Bałdy

Jülich

Borówiec

Effelsberg

Tautenburg

Łazy

Unterweilenbach

Nançay

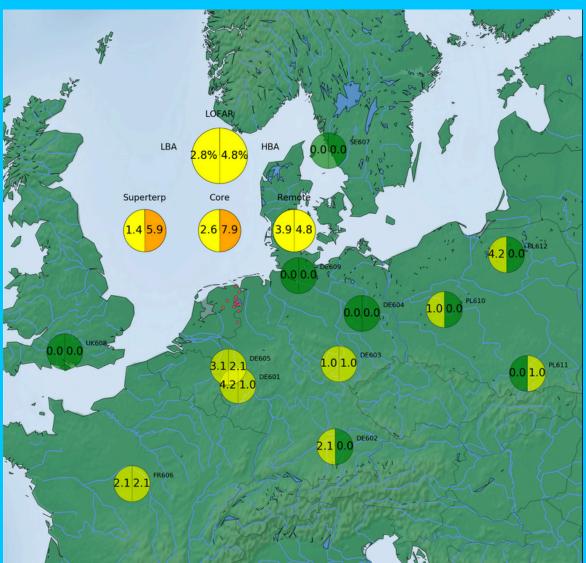LOFAR

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Overview, including IS

LBA: 2.8%; HBA: 4.8%

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

➢ Cobalt nodes spontaneous rebooting issue resolved (OS update).

➢ LC8 PC meeting: 1460 observing and 1554.6 processing hours awarded. No priority B projects. More at: *http://www.astron.nl/radio-observatory/cycles-allocations-and-observing-schedules/cycle-8-final-allocations/cycle-8-final*

➢ Station calibration status:

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

   • In March, LBA OUTER tables were updated on the Dutch stations and new LBA tables for the international stations were installed last Monday along with mode 6 (HBA MID) on remote and international stations.

   • Both ODD and EVEN tables for LBA SPARSE have been installed on the Dutch array.

News regarding Cycle 7 observations

Schedule table (Week 18, May):

Week 18 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	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

Row 1 — Mon: (t) LT5_004 - LOTAAS follow-up - 5min - HBA; (t) LT5_004 - LOTAAS - 3hrs HBA; TBB + tests; all international stations to ILT mode at 9 UT; Val. Run - Install CalTables LBA INT + mode6 remote+INT; TBB + tests; (c) A: LC7_024 - P157+62 & P150+65 - 8hrs HBA; TBB + tests

Row 2 — Tue: (c) LC7_010 - SBSB1646+499 - 4hrs HBA co observe ST1; TBB + tests; STOP DAY / LCU BIOS Update (TG); TBB + tests; (c) LC7_017 - 4 hr - LBA - REPETITION

Row 3 — Wed: TBB + tests; (t) LT5_004 - LOTAAS - 3hrs HBA; TBB + tests; Commissioning2017 - BF abs. flux; TBB + tests; (c) A: LC7_027 - 3C190 - 4hrs HBA; TBB + tests; (c) A: LC7_024 - P217+60 & P224+63 - 8hrs HBA

Row 4 — Thu: (c) A: LC7_024 - P217+60 & P224+63 - 8hrs HBA; TBB + tests; LC5_005 - LOBOS - 3hrs HBA - 01-04 LST; (t) LT5_004 - LOTAAS - 3hrs HBA; TBB + tests; A: LC6_015 - P177+22 & P181+27- 8hrs HBA repetition P181+27 12:05:12.724 27:09:58.216

Row 5 — Fri: A: LT5_003 - Pulsar Timing - HBA; TBB + tests; all international stations to local mode at 9 UT (c) A: LC7_020: HCG15 - 5hrs HBA; A: LT5_003 - Pulsar Timing - HBA; (t) LT5_004 - LOTAAS - 4hrs HBA; (t) LT5_004 - LOTAAS follow-up - 15min - HBA; FE S/N monitoring; STATIONTEST

Row 6 — Sat: A: LT5_003 - Pulsar Timing - HBA

Row 7 — Sun: A: LT5_003 - Pulsar Timing - HBA; TBB + tests; DDT7_003 - HBA - 20min; TBB + tests; B: LC7_029 - LST 4 - 40+30 min; A: LC7_018 - HBA - 20min; A: LT5_003 - Pulsar Timing - HBA; (t) LT5_004 - LOTAAS - 3hrs HBA; TBB + tests; (t) LT5_004 - LOTAAS follow-up - 2 x 15min - HBA; B: LC7_029 - LST 13 - 40 min; TBB + tests

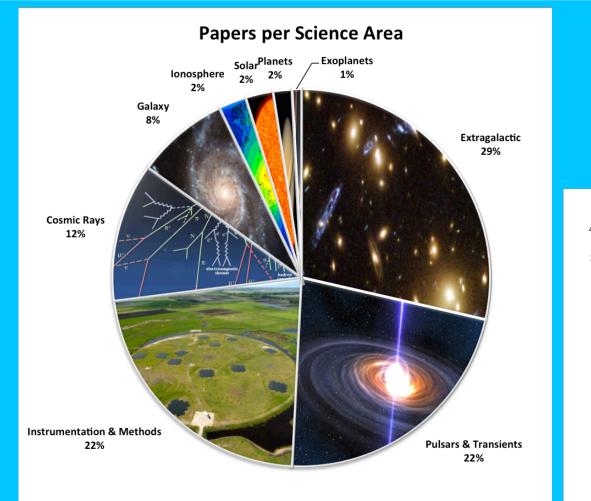- Cycle 7 observing program ongoing:

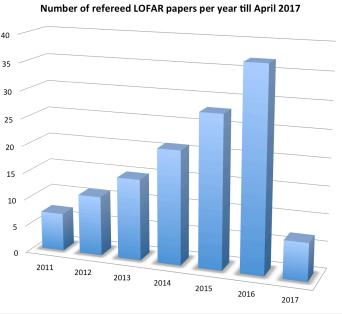 Detailed Cycle 7 schedule available here: http://www.tiny.cc/LC7

  SW roll-out May 8 cancelled.

- Changes can be applied daily: in case of questions/issues contact Science Operations and Support (SOS)

- *Always cc sos@astron.nl and include the proposal code in the subject line*

LOFAR papers (2011 – Jan 2017):

Papers per Science Area

Number of refereed LOFAR papers per year till April 2017

More at: http://www.astron.nl/radio-observatory/lofar-science/lofar-papers/lofar-papers

Calendar LOFAR activities:

➢ Next LSM : 31 May 2017 (volunteers welcome)

➢ The Broad Impact of Low Frequency observing conference + 4th LOFAR users meeting, Bologna, IT : 19 - 23 June 2017

➢ Major CEP3 upgrade planned for 15 - 31 May 2017. User access will not be possible.

➢ 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