

## Programme:

- 1. Array status & Observatory update – M. Iacobelli/C. Toribio*
- 2. Distributed SAGECal – S. Yatawatta*
- 3. A preliminary LOFAR survey strategy - T. Shimwell*
- 4. Galactic science imaging with bright diffuse emission - J. Gregson*

# Array Status



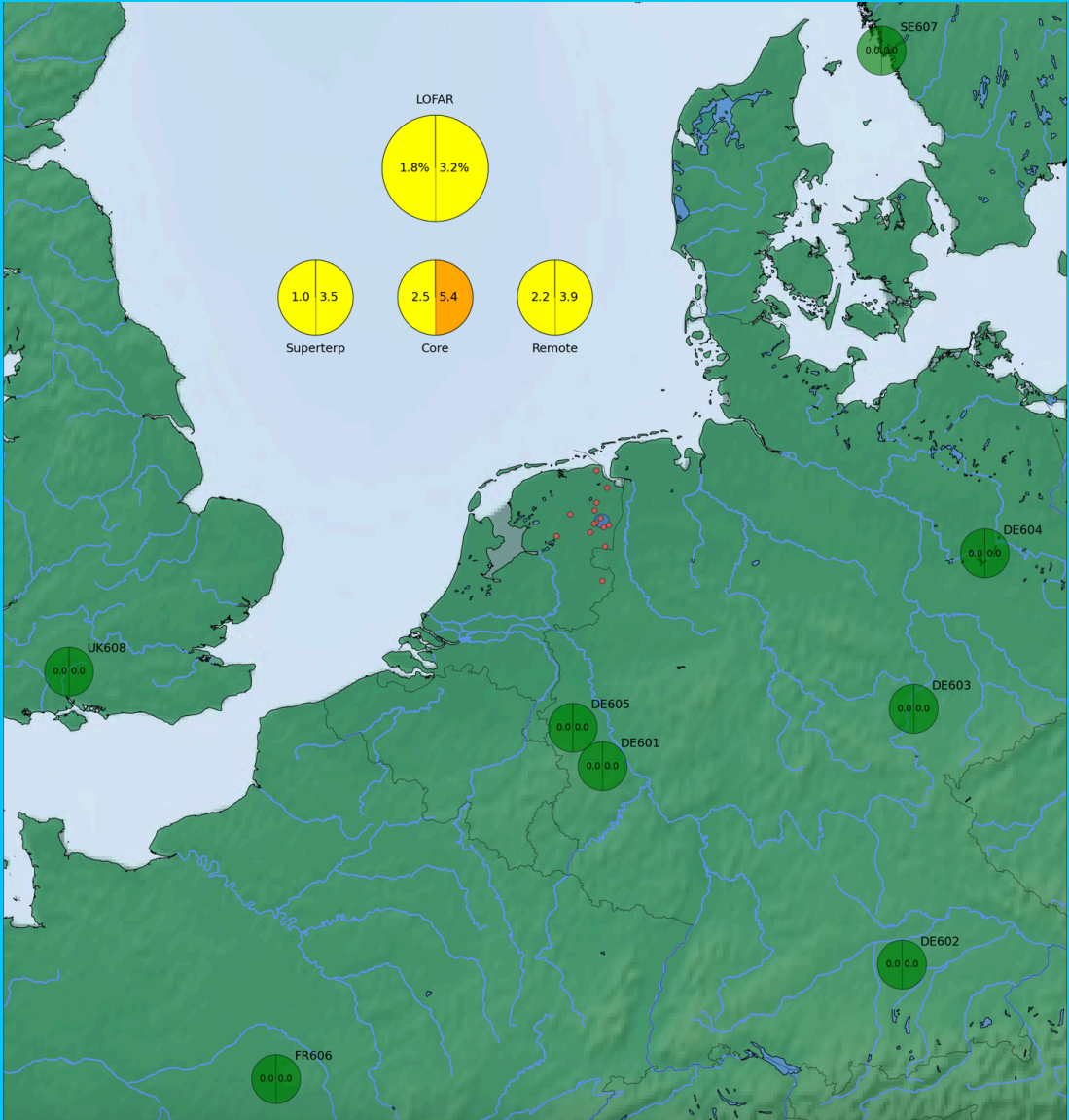
- 38 operational NL stations
  - 24 CSs
  - 14 RSs
- 8 Is
- Maintenance/Repair ongoing on several stations.
- Third (and last) round of mowing the fields for the winter.
- Placement of the LBA/HBA antennas in Hamburg.

# Overview, including IS



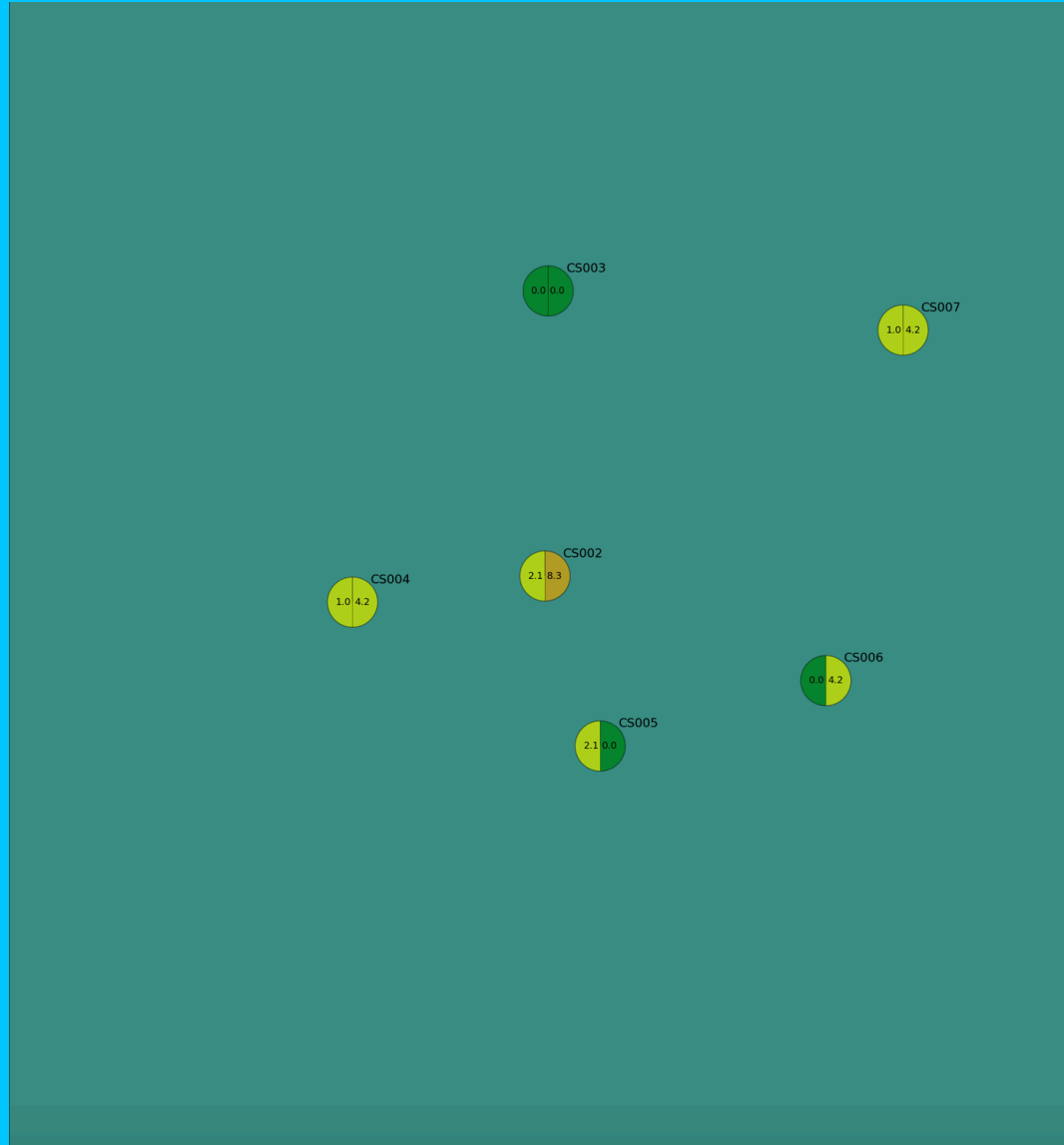
LBA: 1.8%; HBA: 3.2%

see [https://proxy.lofar.eu/array\\_status/](https://proxy.lofar.eu/array_status/)



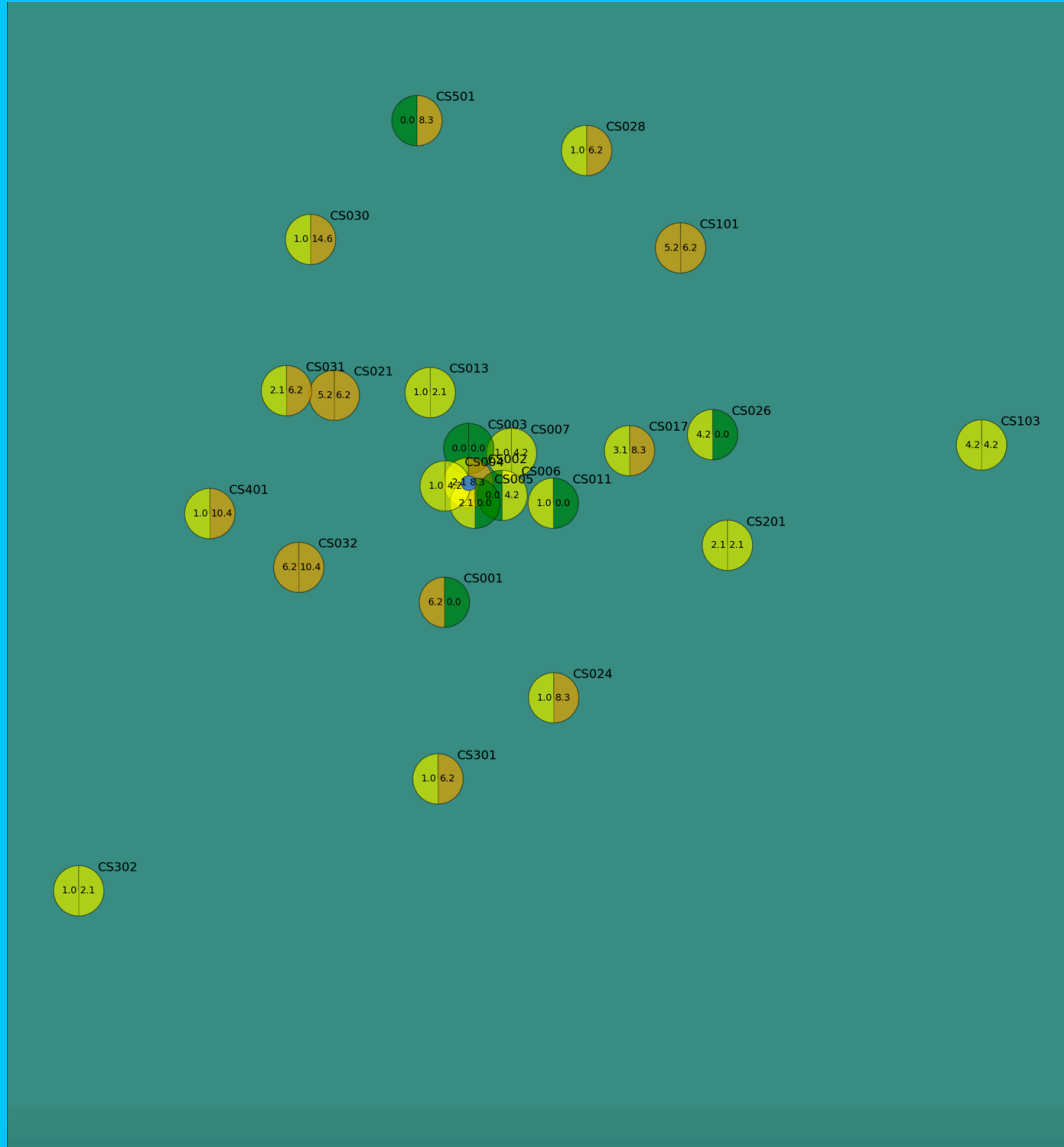
# Superterp

LBA: 1.0%; HBA: 3.5%



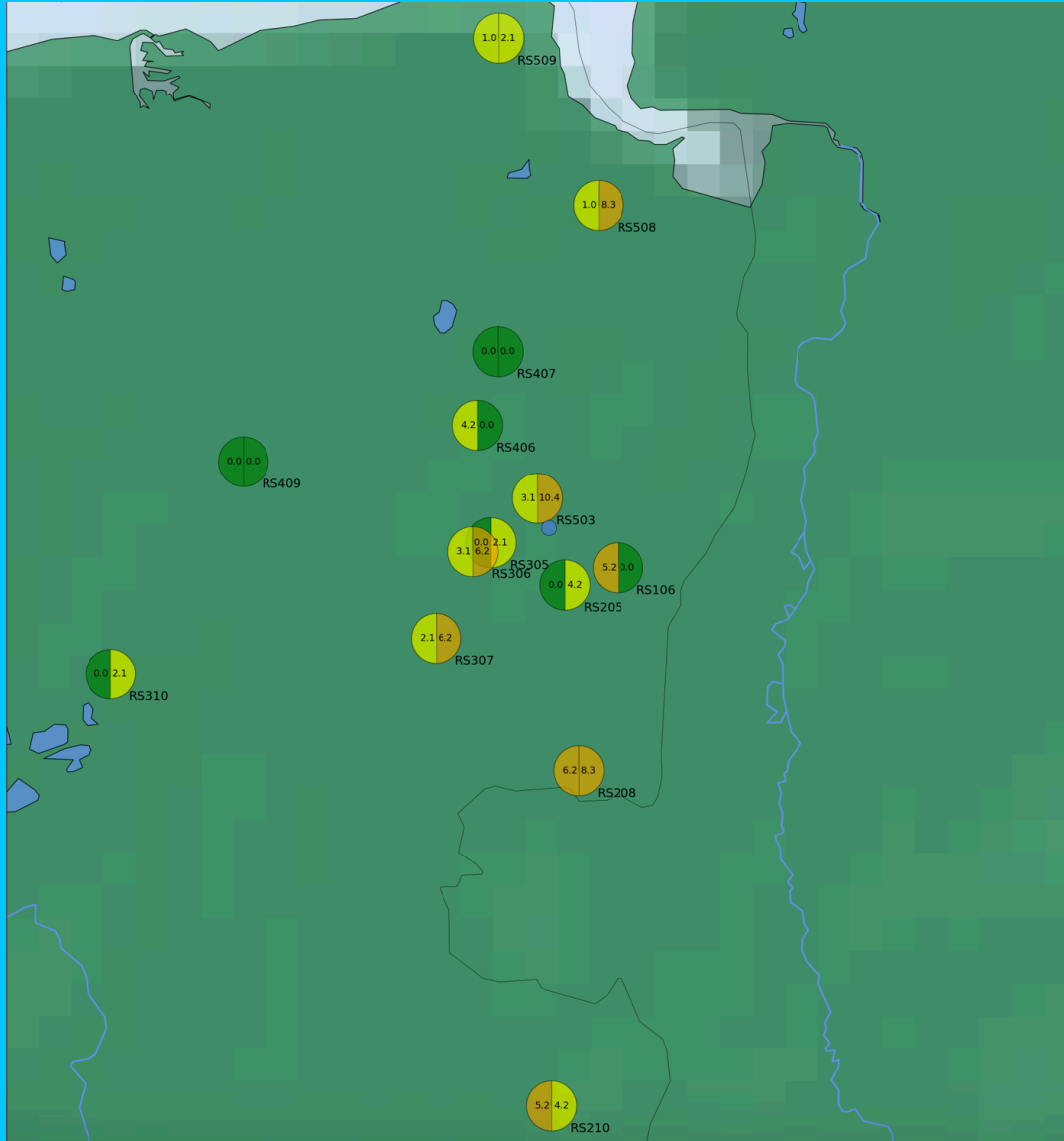
# Core Stations

LBA: 2.5%; HBA: 5.4%



# Remote Stations

LBA: 2.2%; HBA: 3.9%



- System performed relatively fine during the last 2 weeks.
  - throughput issues to CEP2 locus nodes 051-075.
  - CEP2 headnode needed reboot (one LC2 observing run failed).
- LOFAR pulsar archive ingested to the LTA on a regular basis.
- Pipelines: currently no processing queue.
  - hanging locus nodes/swapping due to NDPPP high memory usage avoided by a memory limitation set up to 10 GB (instead of 35 GB). Monitoring is ongoing by a dedicated working group.
- LTA performance: minor delays with the ingest of data.

# News regarding Cycle2/3 observations



| Week 46  |    | 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  |    |     | 3                              | 4                      | 5                  | 6                 | 7   | 8                  | 9                       | 10  | 11                            | 12               | 13                            | 14                            | 15                   | 16           | 17                             | 18              | 19 | 20                     | 21           | 22              | 23 | 0  | 1  | 2  |  |
| November   | 10 | Mon | IoS/TBB runs                   |                        |                    | STATION TEST      |   |                    |                         | Stress system runs + TBB runs; all international stations switched to ILT mode at 9 UTC   |                               |                  |                               |                               |                      |              | IoS/TBB runs                   |                 |    |                        |              |                 |    |    |    |    |  |
|  | 11 | Tue | LC2_008 - 0917+075 - 8hrs      |                        |                    |                   |   |                    |                         | Stress system runs + TBB runs   |                               |                  |                               |                               |                      |              | LC2_007 - LSTs 19              | IoS/TBB runs    |    | LC2_007 - LSTs 21,23   | IoS/TBB runs |                 |    |    |    |    |  |
|  | 12 | Wed | IoS/TBB runs                   | LC2_007 - LSTs 0,2,4,5 | IoS/TBB runs       | LC2_025 - RAs 6-9 |   |                    | LC2_007 - LSTs 6,7,9,11 | Stress system runs + TBB runs   |                               | LT2_003 - LOTAAS |                               | Stress system runs + TBB runs | LC2_007 - LSTs 15-19 | IoS/TBB runs |                                |                 |    | LC2_005 - A399 - 10hrs |              |                 |    |    |    |    |  |
|  | 13 | Thu | LC2_005 - A399 - 10hrs         |                        |                    |                   | LT2_001 - J1026+2542 - 4hrs -- REPETITION - start 2.5h BEFORE TRANSIT |                    |                         |   | Stress system runs + TBB runs |                  |                               | LC2_039 - J1810+1744 - 4.2hrs |                      |              | IoS/TBB runs                   |                 |    |                        |              |                 |    |    |    |    |  |
|  | 14 | Fri | LC2_025 - All RAs 0-4          |                        |                    |                   | IoS/TBB runs  | LC2_026 - RAs 9-11 |                         | Stress system runs + TBB runs; all international stations switched to local mode at 9 UTC |                               |                  |                               |                               |                      |              | LC3_028 - EoR NCP              |                 |    |                        |              |                 |    |    |    |    |  |
|  | 15 | Sat | LC3_028 - EoR NCP              |                        |                    |                   |   |                    | IoS/TBB runs            |   |                               |                  | LC3_014 - LOTAAS              |                               |                      | IoS/TBB runs |                                |                 |    |                        |              |                 |    |    |    |    |  |
|  | 16 | Sun | IoS/TBB runs                   |                        |                    |                   |   |                    |                         |   |                               |                  | LC3_030 - RA 16               |                               | IoS/TBB runs         |              |                                | LC3_030 - RA 22 |    | IoS/TBB runs           |              | LC3_030 - RA 27 |    |    |    |    |  |
| <b>e-VLBI session 18th November 09:00 UTC to 19th November 13:00 UTC</b> |    |     |                                |                        |                    |                   |   |                    |                         |   |                               |                  |                               |                               |                      |              |                                |                 |    |                        |              |                 |    |    |    |    |  |
| Week 47  |    | 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  |    |     | 4                              | 5                      | 6                  | 7                 | 8   | 9                  | 10                      | 11  | 12                            | 13               | 14                            | 15                            | 16                   | 17           | 18                             | 19              | 20 | 21                     | 22           | 23              | 0  | 1  | 2  | 3  |  |
| November   | 17 | Mon | LC3_028 - EoR 3C196            |                        |                    |                   |   |                    |                         |   |                               |                  | LC3_001 - M31 -10.5hrs        |                               |                      |              |                                |                 |    |                        |              |                 |    |    |    |    |  |
|  | 18 | Tue | LC3_001 - M31 -10.5hrs         |                        |                    |                   | LC3_014 - LOTAAS  |                    |                         |   | LC3_028 - EoR NCP             |                  |                               |                               |                      |              |                                |                 |    |                        |              |                 |    |    |    |    |  |
|  | 19 | Wed | LC3_028 - EoR NCP              |                        |                    |                   |   |                    |                         |   |                               |                  | LC2_039 - J2129-0428 - 8.9hrs |                               |                      |              |                                |                 |    |                        |              |                 |    |    |    |    |  |
|  | 20 | Thu | LC3_014 - LOTAAS               |                        |                    |                   |   |                    |                         |   |                               |                  | LC2_025 - RAs 19-21           |                               |                      |              | LC2_036 - L1407b - LBA 4.25hrs |                 |    |                        |              |                 |    |    |    |    |  |
|  | 21 | Fri | LC2_036 - L1407b - LBA 4.25hrs |                        | LC2_026 - RAs 9-11 |                   |   |                    |                         |   | LC3_032 - J2215+5135 - 4.9hrs |                  |                               |                               |                      |              |                                |                 |    |                        |              |                 |    |    |    |    |  |
|  | 22 | Sat | LC3_028 - EoR 3C196            |                        |                    |                   |   |                    |                         |   |                               |                  | LC3_014 - LOTAAS              |                               |                      |              | LC3_028 - EoR NCP              |                 |    |                        |              |                 |    |    |    |    |  |
|  | 23 | Sun | LC3_028 - EoR NCP              |                        |                    |                   |   |                    |                         |   |                               |                  |                               |                               |                      |              |                                |                 |    |                        |              |                 |    |    |    |    |  |

- Detailed Cycle 3 schedule available here:
- <https://docs.google.com/spreadsheets/d/1jDWvZmpH0ycusJTwbSMU6SxQYK5efawtk0jHSxMbo9M/pubhtml>
- 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\*\*** 8



## ➤ CEP2

- Critical situation for disk space. In particular, large bunch of pulsar data. Removal of pulsar data is ongoing in cooperation with the pulsar working group.

## ➤ CEP3

- First group of users access the system this week (4 weeks working period).
- CEP3 info and users schedule available at:

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

- 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>

## ➤ CEP1

### **NO USERS ACCESS AFTER NOVEMBER 24<sup>TH</sup>**

- **BACK UP YOUR DATA FROM CEP1 ELSEWHERE OR GET IN TOUCH WITH SCIENCE SUPPORT AT [sciencesupport@astron.nl](mailto:sciencesupport@astron.nl) IF YOU WOULD LIKE TO REQUEST TRANSFER OF DATA TO CEP3 AND HAVE NOT YET DONE SO.**
- Node lce019 broken: data lost!

# Calendar LOFAR activities:

- Start of LOFAR Cycle 3 : 15 November
- LOFAR Data Analysis School : 17-21 November
- Next LSM : 26 November
- Imaging busy week : 1-5 December
- LOFAR news email list:  
<http://www.astron.nl/radio-observatory/subscribe-lofar-news/subscribe-lofar-news>