## AST(ZON

## Programme:

1. Array status \& Observatory update - A. Shulevski
2. LOFAR cennsus of non-recycled pulsars - V. Kondratiev.
3. $A O B$

ASTRON is part of the Netherlands, Organisation for Șcientific Research (NWO)

## Array Status


> 47 operational stations

- 24 CSs
- 14 RSs
- 9 Is
> 3 new stations in Poland. Building process is finished. Waiting for network connection.
> CS013 operational again - HBA elements rotated - new RSP driver - included in test runs.
- CS103 broken SPU repaired, but still a problem in one HBA sub-station
> RS503 broken cables
> Station maintenance stopped. Will continue in spring.


## ANTENNA ELEMENTS STATUS



| All operational |
| :--- |
| $<5 \%$ not operational |
| $<15 \%$ not operational |
| $>15 \%$ not operational |

> Repaired HBA tiles switched on
> Current status available at
https://proxy.lofar.eu/array_status/

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

> Mode 5 and mode 7 tables installed on most Remote stations and FR606 on Nov 4.

Mode 3 data installed on 5 international stations on Nov. 4

Mode 6 test successful. Taken data for all stations planned.

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

## New beamlet statistics (BST) plots


log10 instead of median and frequency axis added

## LOFAR 2.13

> Software roll-out November $2^{\text {nd }} 2015$

- Update Station Software only
- Better specifiable Attenuation settings
- Improved robustness and speed for clock switches
- 160 MHz included
- TBB issues solved -> final testing TBD
- Introduced a problem with the spectral inversion
- Only observed for the first observation after switching mode
- Fix implemented
> Release notes: http://www.lofar.org/operations/doku.php? id=engineering:release_notes_lofar_2.13


## Reminder CEP4

CEP4 cluster will replace CEP2

- Expected to be operational by beginning of 2016
- CEP2 will be decommissioned on the same timescale
- Clean up requested by November 30
- Large data copy: contact science support first
- Data cannot be stored on CEP4
- DO NOT USE home directory for large datafile transfers
- LOFAR Data size calculator fixed
http://lofar.astron.nl/service/pages/storageCalculator/calculate.jsp


## News regarding Cycle observations Cycle 5 in progress.


> 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**
- Cycle 4: 93\% complete


## > 33 out of 35 proposals accepted

> Long term allocations made up to and including cycle 8
> Total : 1598 observing hours, 1724 processing hours
> http://www.astron.nl/radio-observatory/cycles-allocations-and-observing-schedules/cycle-5-final-allocations/cycle-5-final


## Documentation and resources

LOFAR slides for general use available


## LOFAR DOCUMENTATION

Important sources of documentation about LOFAR are:
( Observing Proposals

- Technical Information web pages
- The LOFAR Wiki ${ }^{\text {© }}$
- LOFAR Data school presentations
( Asking for time $\checkmark$
- LOFAR: The LOw Frequency ARray ${ }^{\text {® }}$
- The LOFAR Imaging Cookbook (for a descriptioon of the imaging software reduction)
- LOFAR slides (useful material that can be used to prepare presentations abuuc ᄂטוֹñ capabilities)

The LOFAR imaging cookbook v18.0 is released

LOFAR user script repository is online on GitHub: https://github.com/lofar-astron/LOFAR-Contributions

LOFAR papers overview available: http://www.astron.n//general/ lofar/lofar-papers/lofar-papers


## CALENDAR LOFAR activities

$>$ Stop day
> Software roll-out
$>$ Next LSM
: 1 December 2015
: 7 December 2015
: 9 December 2015
> Note: The BBS database server name Idb001 will be replaced with the alias Idb during the stop day. Users should modify their setups accordingly.

Note: subscribe to lofar-news and Ism mailing lists:
http://www.astron.nl/radio-observatory/subscribe-lofar-news-and-lsm-mailing-lists/ subscribe-lofar-news-and-Ism-mailing-li

LSM presentations:
http://www.lofar.org/wiki/doku.php?id=public:Ism_new:start

