



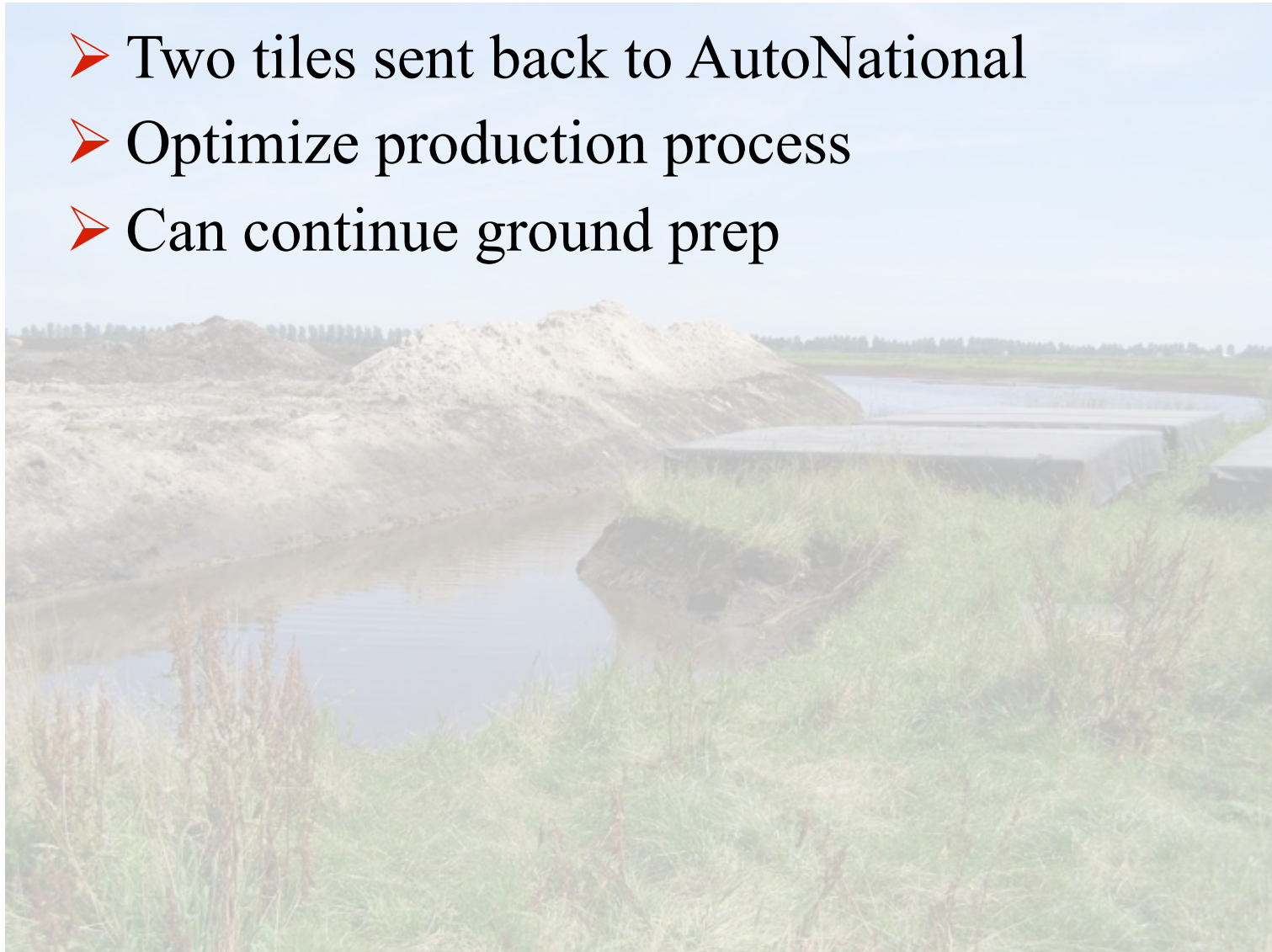
LOFAR System Status and Software Updates

LOFAR Status Meeting
27 August 2008

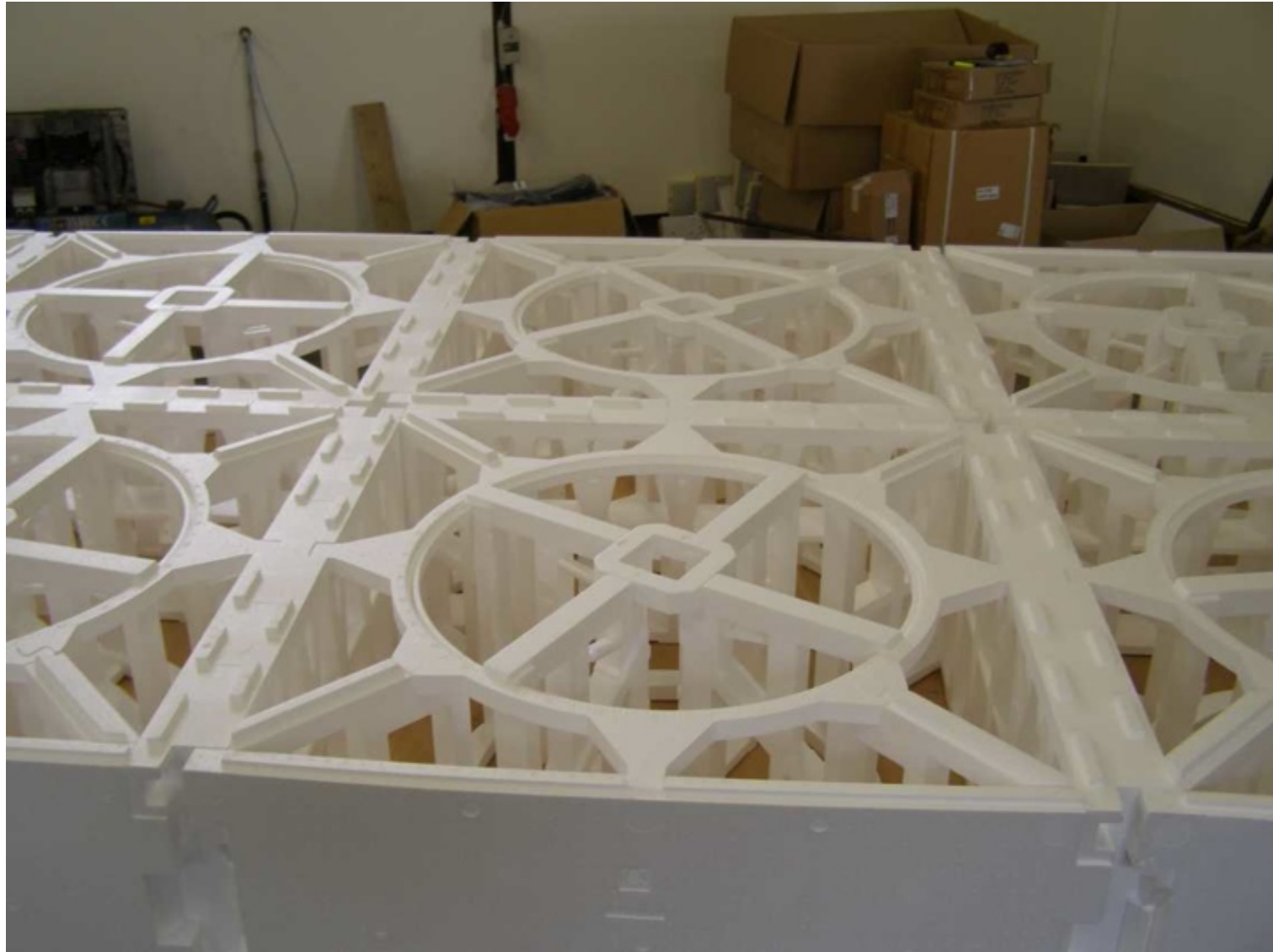
Michael Wise



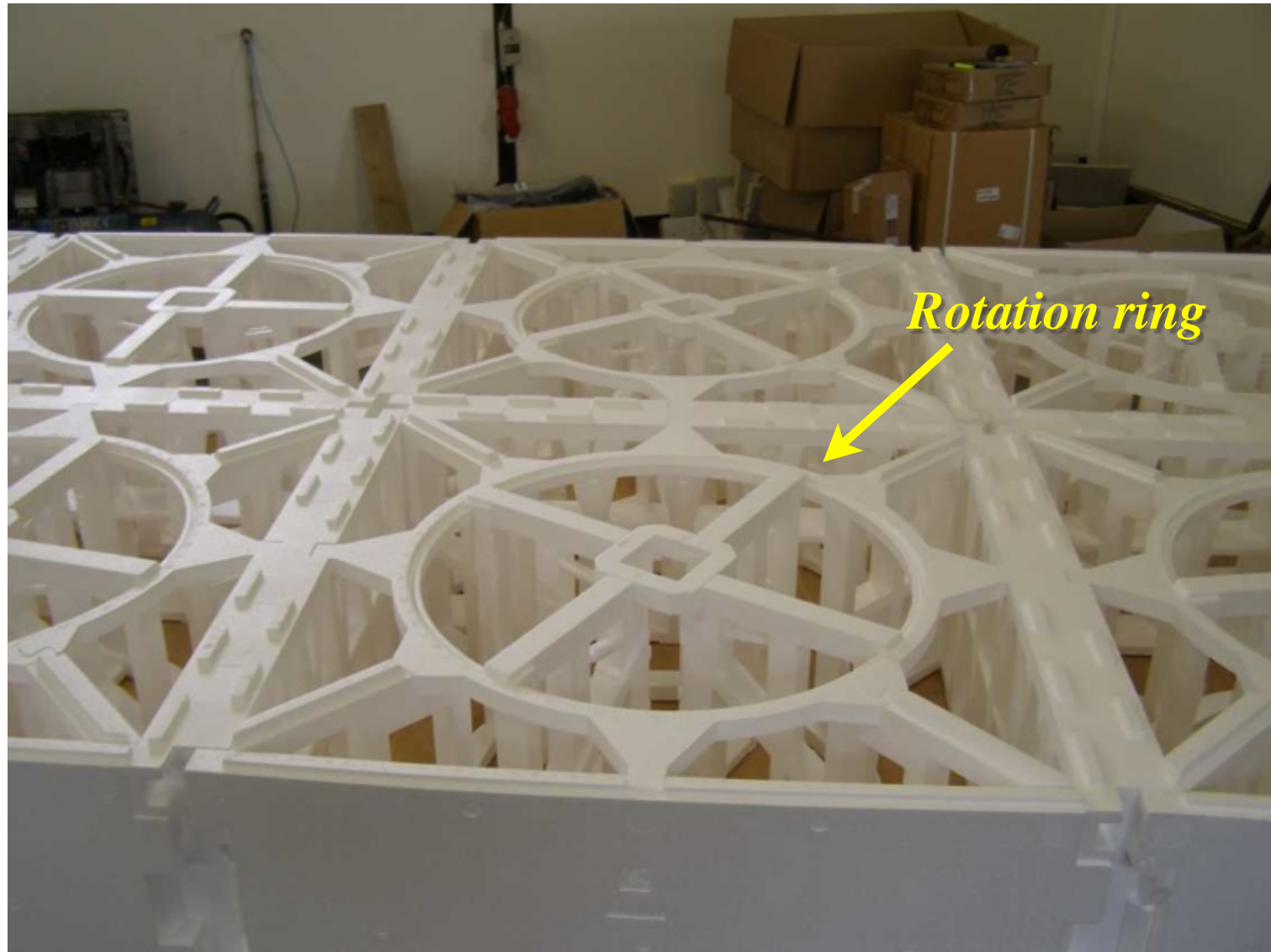
- Two tiles sent back to AutoNational
- Optimize production process
- Can continue ground prep



New Tiles Arriving



New Tiles Arriving

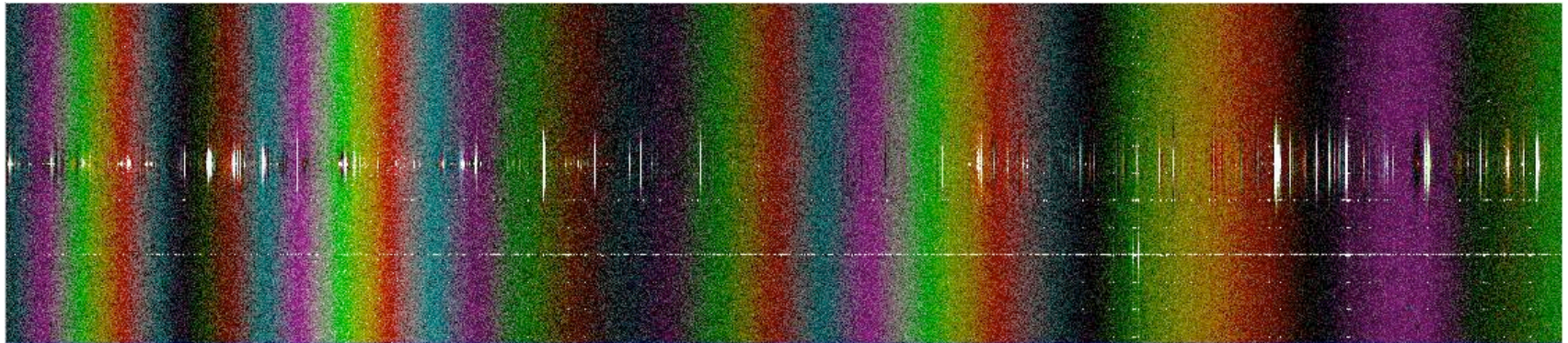


- July 08 Station roll-out begins
- Oct 08 First NL station operational
- Nov 08 Partial CEP storage and offline cluster ready
- Dec 08 Prototype LOFAR archive in place
- Jan 09 7 Remote stations and superstation ready
- Apr 09 Phase 1 imaging pipeline ready
- May 09 20 NL + 3-4 EU stations online
- May 09 MSSS begins
- Dec 09 36-38 NL + 7 EU stations online

CS008

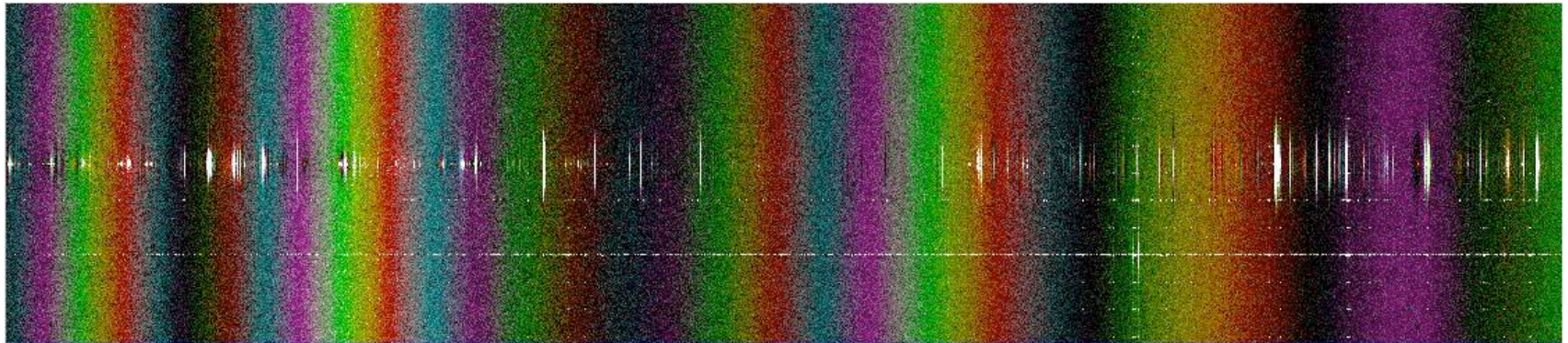
CS010

CS001 CS016



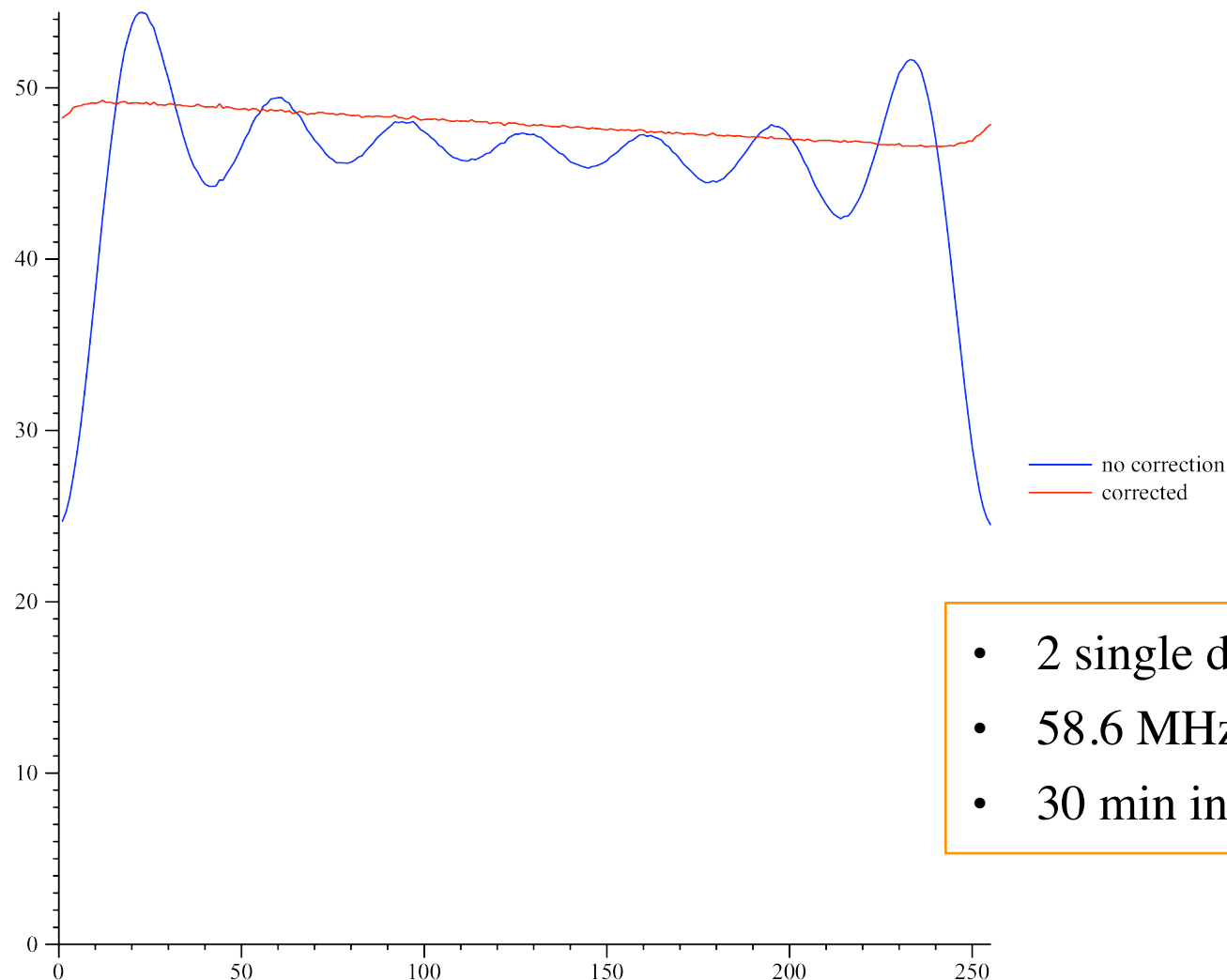
(from J. Romein)

- CS001 and CS016 upgraded to 10 GbE technology
- Change over to more secure network underway
- Station access under tighter control
- Complete in the next week



(from J. Romein)

- Production version of OLAP software done
- I/O optimizations awaiting feedback from IBM
- Operators train on new system next week
- Limited observing will begin week after (~Sept 10)



(from J. Romein)

- 2 single dipoles
- 58.6 MHz
- 30 min integration



public:msss_meeting2 - Lofar Wiki

http://www.lofar.org/operations/doku.php?id=public:msss_meeting2

LOFAR Wiki

Visited: » start » public:meetings » public:msss » public:msss_meeting2

Second MSSS meeting

Date: 21st August 2008, 9:00 - 16:00
Location: Colloquium Room, ASTRON, Dwingeloo The Netherlands

Documentation [\[edit\]](#)

- [Preliminary specifications for the MSSS](#) - Ronald Nijboer and Ger de Bruyn [\[edit\]](#)

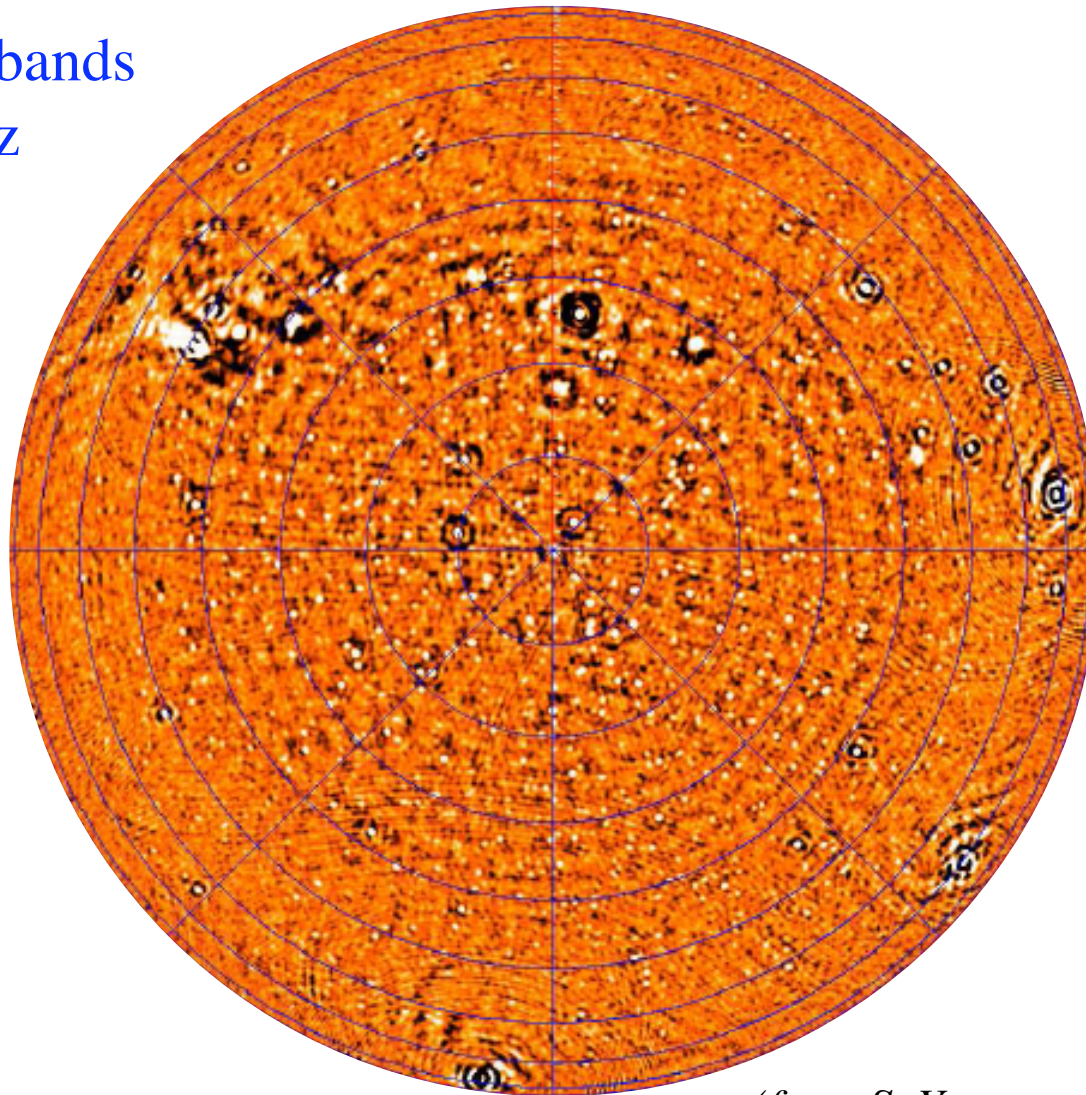
Agenda

- 09.00 - 09.05 [Welcome \(& commissioning tasks\)](#) - Michael Wise
- 09.05 - 09.35 [MSSS: how and why - an introduction](#) - Ger de Bruyn
- 09.35 - 10.00 [Off-line processing: calibration and imaging](#) - Ronald Nijboer
- 10.00 - 10.30 [Beam models](#) - Ronald Nijboer
- 10.30 - 11.00 Coffee break
- 11.00 - 11.15 [Ionosphere model: SPAM](#) - Huib Intema
- 11.15 - 11.30 [SPAM in BBS](#) - Maaijke Mevius
- 11.30 - 12.00 [LSM / GSM / Source Finding](#) - Michael Wise
- 12.00 - 12.30 [Operational issues](#) - Hanno Holtjes
- 12.30 - 13.30 Lunch
- 13.30 - 14.30 MSSS and European baselines
 - [LOFAR and long baselines](#) - James Anderson
 - [European LOFAR](#) - Ger de Bruyn, presenting ideas by Jaap Bregman
 - Discussion (led by Ger de Bruyn)
- 14.30 - 14.45 [Polarimetry and RM synthesis issues](#) - Sven Duscha
- 14.45 - 15.45 Discussion / open issues - All KSPs (led by Michael Wise)
 - [Commissioning surveys](#) - Huub Rotgering
 - [Commissioning tasks](#) - Michael Wise (see Welcome presentation)
- 15.45 - 16.00 [Science & proprietary issues](#) - Rene Vermeulen
- 16.00 End of meeting

- ASTRON, Aug 21 2008
- Over 30 attendees
- System status
- Observing strategies
- European baselines
- Complimentary observations
- Commissioning tasks

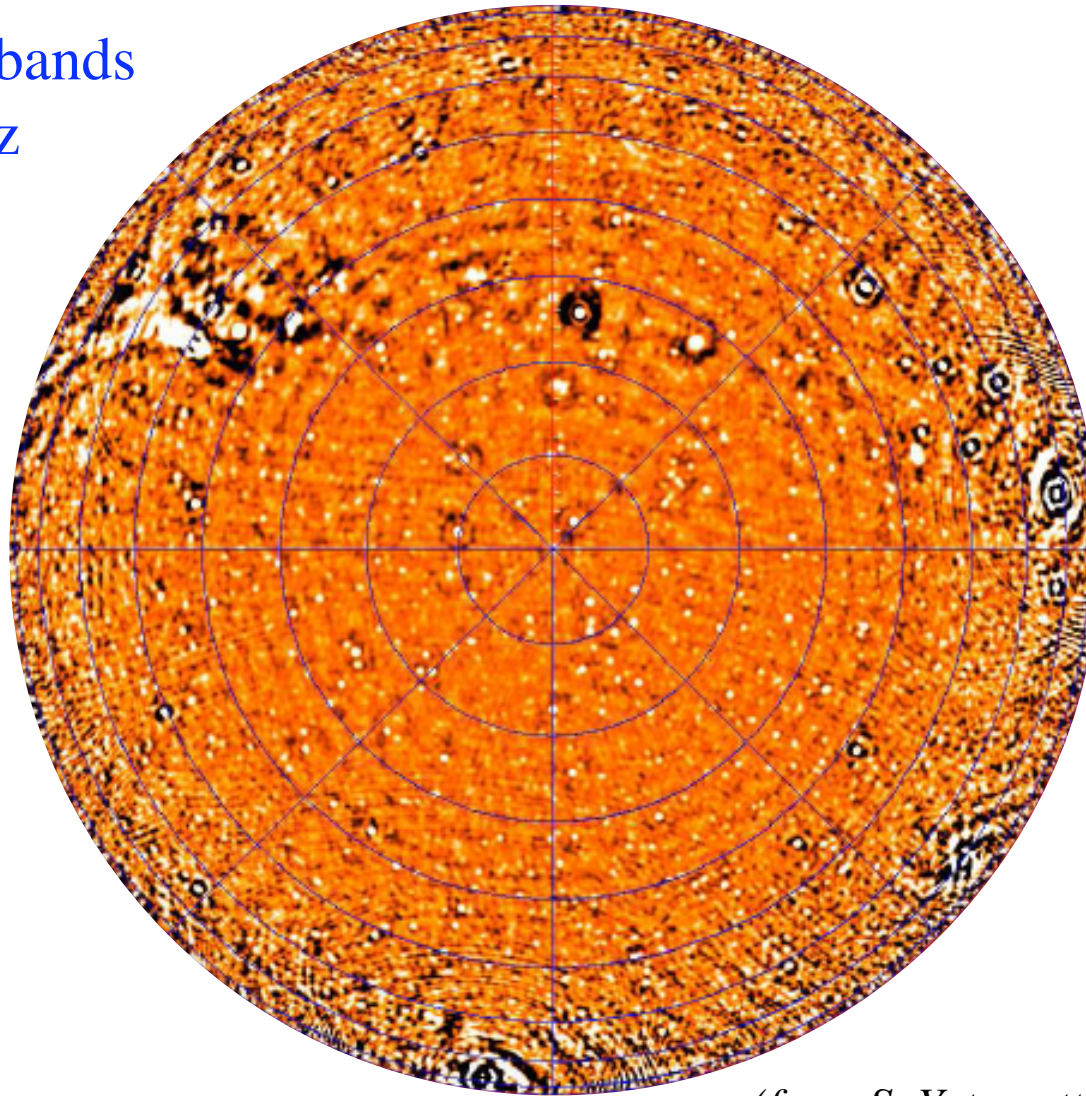
⇒ *Presentations on
LOFAR Wiki*

20 subbands
45 Mhz
24 hrs
NCP



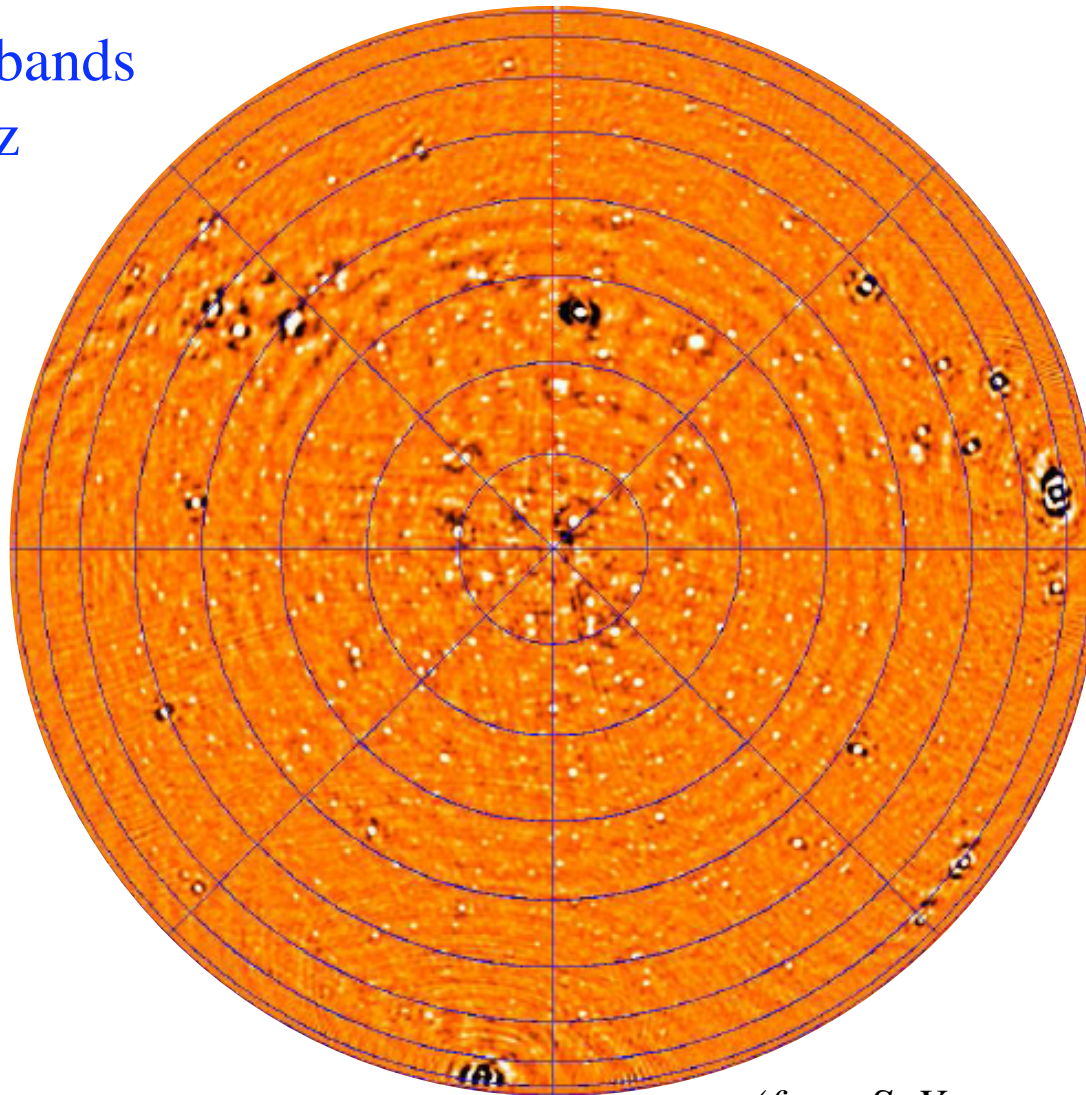
(from S. Yatawatta)

20 subbands
45 Mhz
24 hrs
NCP



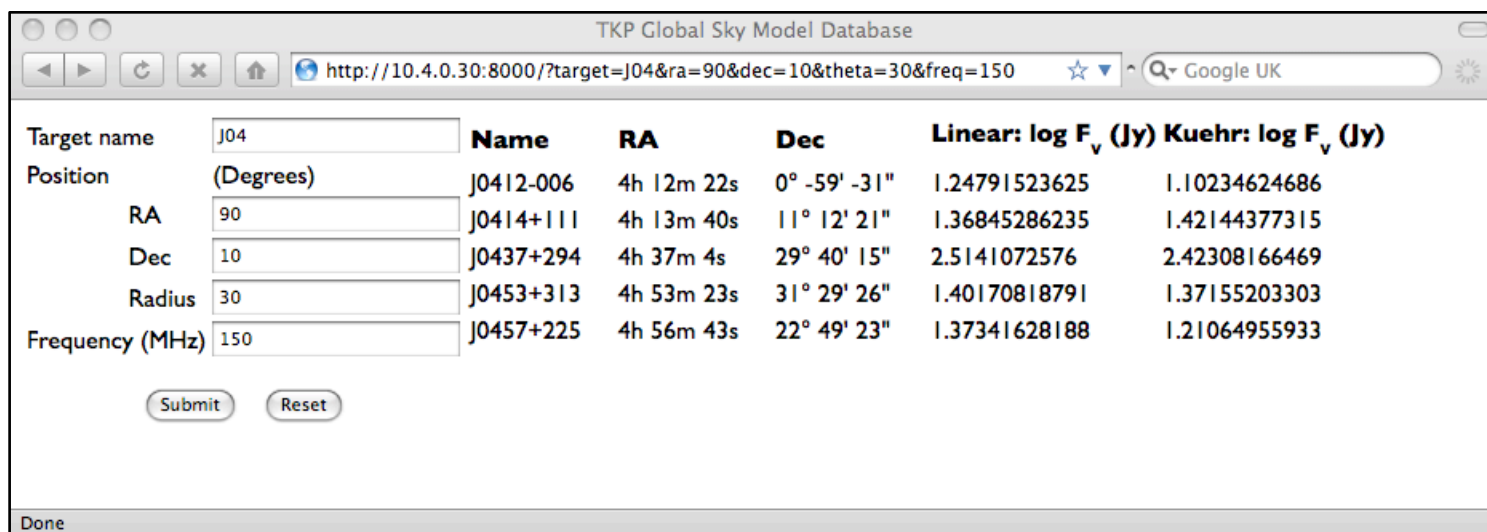
(from S. Yatawatta)

20 subbands
45 Mhz
24 hrs
NCP



(from S. Yatawatta)

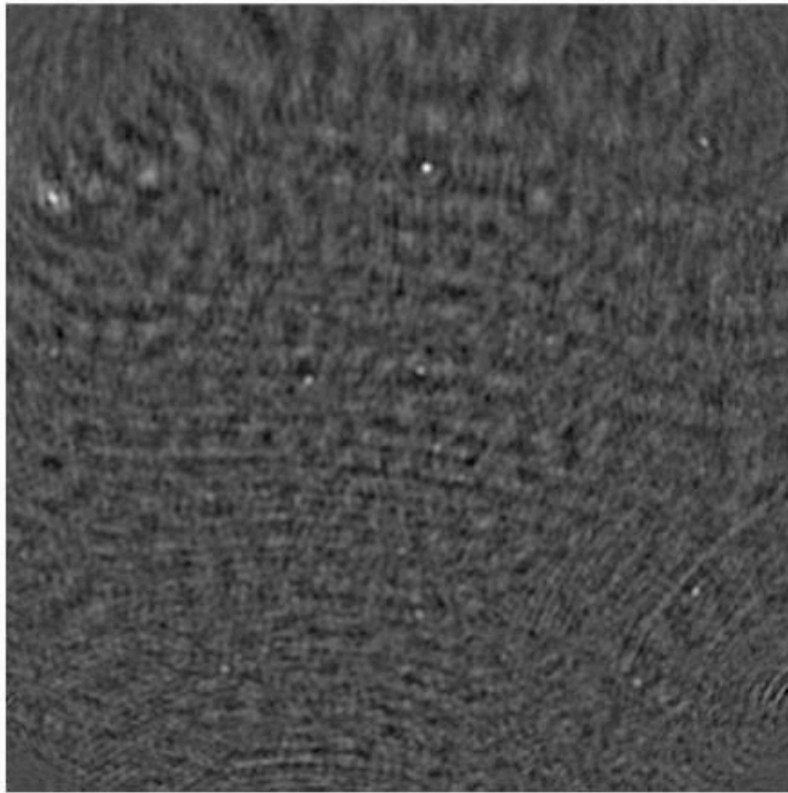
- GSM database prototype (*MySQL, PostgreSQL?, MonetDB?*)
- Many predictive functions implemented in database
- Python interfaces provided for database access
- Simulated maps created using external tools (*ORGSM, N. Mohan*)



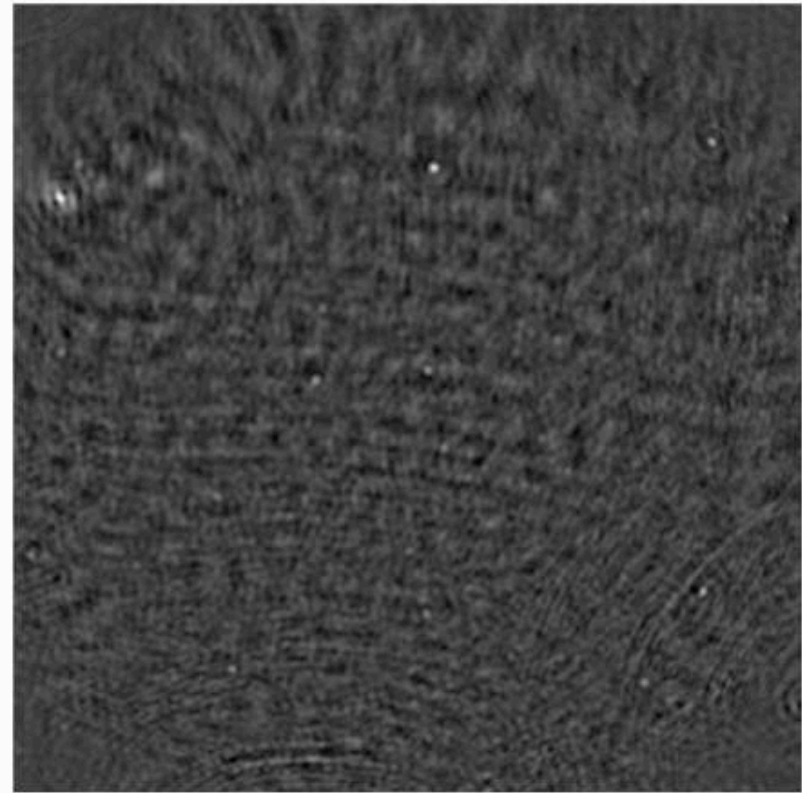
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J04	J0412-006	4h 12m 22s	0° -59' -31"	1.24791523625	1.10234624686
RA: 90	J0414+111	4h 13m 40s	11° 12' 21"	1.36845286235	1.42144377315
Dec: 10	J0437+294	4h 37m 4s	29° 40' 15"	2.5141072576	2.42308166469
Radius: 30	J0453+313	4h 53m 23s	31° 29' 26"	1.40170818791	1.37155203303
Frequency (MHz): 150	J0457+225	4h 56m 43s	22° 49' 23"	1.37341628188	1.21064955933

Example query on prototype GSM database (*from J. Swinbank*)

CImager



AIPS++ imager



(from C.Law)

- Qualitatively very similar
- Possible FITS header keyword bug
- Quantitative tests underway