

Countdown to MSSS

LOFAR Status Meeting
28 October 2009

Michael Wise

Preparation

Task	Status	Comment
Finalized MSSS observation proposal	Draft	Needs to be finalized
MSSS Scheduling plan	Needed	
Determination of LOFAR flux scale	In progress	
Finalized station beam models	In progress	

Stations

Task	Status	Comment
Availability of 18 verified stations	In progress	Expected March 2010
HBA ring splitter working	Implemented	Final tests underway
Multi-beam observations	Ready	
Determination of HBA station taper	Needed	To be done after HBA calibration
LBA station calibration	Working	Needs implementation and testing
HBA station calibration	In progress	

SAS/MAC

Task	Status	Comment
Single beam observations	Implemented	Needs testing
Multi-beam observations	Implemented	Needs testing

Online Processing

Task	Status	Comment
High performance storage writer	Working	Needs final testing
Queue scheduling	In progress	
Rapid switching mode	In progress	
Parallel incoherent beam mode	In progress	Optional for MSSS

DPPP

Task	Status	Comment
Updates to flagging algorithms	In progress	Needs implementation and testing
Clock phase corrections	Needed	Awaiting specification
Global bandpass correction	Needed	Awaiting specification
A-team subtraction	Needed	Awaiting specification
Data compression	Ready	

BBS

Task	Status	Comment
Beam model implementation	In progress	Needs final specification
Ionospheric corrections	Implemented	Needs testing
Solution-based flagging	Implemented	Needs testing
Source spectral index model	Implemented	Needs testing
Extended source models	In progress	Needs final specification
Phase shifting / averaging	In progress	Needs final specification

Imager

Task	Status	Comment
Application of DD effects	In progress	
Determination of UV taper	Needed	
Faceting	Implemented	Needs testing

Framework

Task	Status	Comment
Source finding	Implemented	Needs testing
Implementation of LSM	In progress	Needs final specification
LSM to GSM ingest procedure	Needed	Awaiting specification
Image cube quality checks	Needed	Awaiting specification
Pipeline interfaces to MAC/SAS	Needed	Awaiting specification
Image mosaics	In progress	Needs testing and possible updates
Data formats	In progress	Needs final implementation
Header metadata updates	Needed	Needs implementation
Visualization tools	In progress	Needs update

CEP processing

Task	Status	Comment
System profiling	In progress	
Phase II cluster hardware	Needed	

LOFAR Archive

Task	Status	Comment
Data product ingest procedure	In progress	
Observation database	In progress	
Basic search functionality	In progress	
Hardware procurement	Needed	
Reprocessing functionality	Needed	
Storage and retrieval	Needed	

Support

Task	Status	Comment
Test suites	Needed	
Documentation	Needed	

An aerial photograph of a large, circular aquaculture pond complex. The pond is divided into numerous smaller sections, some of which are filled with water and others with mud or sand. The water in the ponds has a greyish-brown hue. A central building or structure is visible within the pond area. The surrounding land is green and appears to be a mix of fields and roads. The text "The End" is overlaid in the center of the image.

The End