

# Some useful links for the Standard Imaging Pipeline

## User Documentation

- The latest release of the [Imaging Cookbook](#) is available on the web.
- The development version of the cookbook is available (read only!) from [USG Subversion](#).

## MSSS processing

The processing of the MSSS observations will be done in an automated way by means of a few [pipelines](#) that will be started automatically using the scheduler and SAS/MAC.

### [Pipeline Framework Changelog](#)

## RTCP processing

- Subband passband correction at OLAP
- John Romein

## Useful Tools

- [Some handy tools and commands](#)
- [msselect](#): select baselines in a MeasurementSet
- [cexecms](#): run a script on cluster nodes for all data files matching a file name pattern
- [Some scripts for running the pipeline](#)
- [A collection of useful tools and scripts that can be found in /opt/tools](#)
- [Pipeline framework documentation](#)

## DPPP

- Pre-flag document
- V.N. Pandey
- Testing of DPPP
- David Rafferty, 11-Mar-2010
- [DPPP documentation](#)
  - [How to write a DPPP step in Python](#)
  - [LOFAR Data Processing School DPPP Exercise](#)

## Beam Specification

- [LOFAR Beam Definition Version 5.0](#)- J. Hamaker et al.

## BBS

- [BBS documentation](#)
- [Initial BBS performance](#) 07Jan08 - Joris van Zwieten
- [parmdb: Parameter Database](#) - Ger van Diepen
- [parmdbm](#): program to maintain a parameter table
- [cross-calibration](#): ways to export (transfer) solutions
- [makesourcedb](#), [mergesourcedb](#), [showsourcedb](#): programs to create/handle a Source Parameter Database
- [makems: Creating \(distributed\) MeasurementSet](#) - Ger van Diepen
- [makebeamtables](#): add beam info to a MeasurementSet. Needed for BBS after makems.

## Imaging

- [mwimager documentation](#)
- [cimager documentation](#)
  - description of mwimager, clusterdesc and VDS files
- Ger van Diepen.
  - W - Projection paper
- Cornwell et al.
  - Specification of the Frequency Resolution
- Ger de Bruyn
- [Commissioning of the Imager - Last update Aug. 2008](#) - Casey Law
- [Commissioning of the Imager - Last update Oct. 2009](#) - Evert Rol, Fabien Batejat
- [LOFAR Imager test documentation](#) - Evert Rol

## Ionosphere

- [Lions: Ionospheric Simulations](#)
- [Ionospheric Simulations and Calibratability](#) - Ilse van Bommel, Maaijke Mevius
- [Ionospheric Calibration in BBS](#)
- See MWImager parset description below

## Source Finding

- TKP Source Extraction System
- John Swinbank
- TKP source extraction code description
- Hanno Spreeuw
- TKP notes on Duchamp
- John Swinbank

## Global Sky Model

- [gsm.py: extract input for makesourcedb from GSM](#)
- [Expected Data Rates and Volumes for the TKP](#) - Bart Scheers

- [Transient and Variability Detection Algorithms](#) - Bart Scheers
- [Cross-Correlating Multiple Radio Catalogues](#) - Bart Scheers

## Integration of the Standard Imaging Pipeline

- [Standard Imaging Pipeline: first results](#) 09Dec08 - Marcel Loose
- [TKP pipeline framework](#) - John Swinbank

## ParSet documentation

- [LOFAR ParameterSet](#) - Ger van Diepen
- NDPPP: [NDPPP parameter set documentation](#)
- BBS: [BBS parameter set documentation](#)
- mwimager: [mwimager parameter set documentation](#)

## Other documents

- [Notes on IPython](#) - John Swinbank
- [LOFAR Software Testing](#) - Ger van Diepen

## Pipeline Profiling

Some [records of pipeline runs](#) are available for use in profiling.

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