

Source Peeling and Atmospheric Modeling

SPAM is a Python-based extension to AIPS (Greisen 2003), aimed at reducing high-resolution, low-frequency radio interferometric observations in a very efficient, systematic and reproducible way. Special features in SPAM, like direction-dependent ionospheric calibration and image-plane ripple suppression, will help to make high-quality sub-GHz images. SPAM is a Python module, including some C-code optimalizations, that uses the Python-to-AIPS interface ParselTongue (Kettenis et al. 2006), which itself is based on ObitTalk (Cotton 2008). ParselTongue provides access to AIPS tasks, data files (images & visibilities) and tables. SPAM also uses several standard Python libraries like scipy, pylab, matplotlib, and numpy. Data reductions are captured in well-tested Python scripts that executes AIPS tasks directly (mostly during initial data reduction steps), calls high-level functions that make multiple AIPS or ParselTongue calls, and require few manual operations. SPAM now also includes a fully automated pipeline for reducing legacy GMRT observations at 150, 235, 325 and 610 MHz. Some users have also successfully applied it to legacy GMRT 1.4 GHz observations.

Download and install SPAM on your Linux 64-bit system

Starting up SPAM

Running the SPAM pipeline

Frequently asked questions on SPAM

News

- 27-Nov-2023: Updated version of SPAM available (minor bug fixes) here.
- 13-Mar-2019: Check the spam ftp area for regular updates.
- 16-Jan-2018: Updated version of SPAM available here.
- 22-Sep-2017: Made some small modifications to the install procedure.
- 13-Sep-2017: Updates for almost all components of the SPAM installation, with several fixes and new functionality.
- 21-May-2017: Moved homepage including SPAM webpage to new domain.
- 06-Jan-2016: Update of webpage. Release of SPAM pipeline for GMRT. Full AIPS 31DEC13 binary install (LNX64 only), additional catalogs and more now available as single tarball.
- 15-Jan-2016: Obit now available as binary install (LNX64 only). Added simple description how to run the pipeline.

Older materials

SPAM tutorial for the 3gc3 workshop “The Elephants In The Room”, Port Alfred, South Africa, on Feb. 19, 2013.
SPAM example script for reducing GMRT 330 MHz data.

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Last update: **2023/10/27 08:46**