



## 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 optimizations, that uses the Python-to-AIPS interface [ParseITongue \(Kettenis et al. 2006\)](#), which itself is based on [ObitTalk \(Cotton 2008\)](#). ParseITongue 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 ParseITongue 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](#)

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### 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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