

# SPAM: 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 [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](#)

[How to run the SPAM pipeline](#) (UNDER CONSTRUCTION)

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## News

- 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.

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## 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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