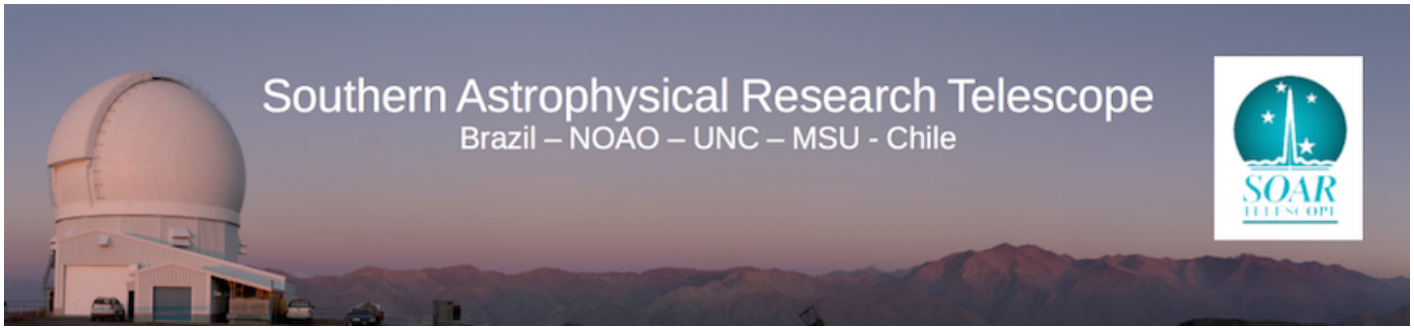

Published on *SOAR* (http://www.ctio.noirlab.edu/soar)

The Goodman Data-Reduction Pipeline

Latest release [1]

The Goodman Data-Reduction Pipeline is a Python-based package developed with the goal of processing raw spectra obtained with the Goodman High Throughput Spectrograph [2] at SOAR, and producing one-dimensional, wavelength-calibrated, science quality spectra, in a highly automated way, with minimal user intervention.

The pipeline is divided into two scripts:

- 1) `redccd` is used to perform standard data-processing like subtract bias, correct by flat and clean cosmic rays.
- 2) `redspec` performs the basic spectrum operations of object detection, tracing, extraction, background estimation and subtraction, and wavelength calibration.

After some minimal data organization, the user needs only run a single command-line instruction.
The pipeline has been designed to be run without having to perform any installation, by using a dedicated machine available at SOAR via VNC (Virtual Network Computing) for users that have access to the SOAR private network. However, users can download the software and install it locally.

For further information, details on how to run the software and the full documentation, please **click this link** **[3]** go to the official Goodman Data Reduction Pipeline documentation.

Goodman DRP team [4]

Related Links

- Reducing Goodman MOS data with IRAF [5]
  by César Briceño
- A User's Guide to Reducing Slit Spectra with *IRAF* [6]
  by Phil Massey, Frank Valdes, and Jeannette Barnes - April 1992.
- Guide to the Slit Spectra Reduction Task DOSLIT [7]
  Francisco Valdes - February 1993.

Links
[1] https://github.com/soar-telescope/goodman/releases
[2] http://www.ctio.noirlab.edu/soar/content/goodman-high-throughput-spectrograph
[3] https://soardocs.readthedocs.io/projects/goodman-pipeline/en/latest/
[4] https://soardocs.readthedocs.io/projects/goodman-pipeline/en/latest/authors.html
[5] http://www.ctio.noirlab.edu/soar/sites/default/files/images/Instruments/mos_data_reduction_with_goodman.pdf
[6] https://github.com/soar-telescope/legacy-docs/raw/master/iraf/IRAF_LSreduce.pdf
[7] https://github.com/soar-telescope/legacy-docs/raw/master/iraf/doslit.pdf