



# SALT Pipeline Developments



Steve Crawford

[crawford@sao.ac.za](mailto:crawford@sao.ac.za)

SALT Science Data Manager

SAAO/SALT



# PySALT v0.42

SALT  
Data Pipeline  
Science with SALT

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Tasks to automate  
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Basic CCD data  
Reductions (Up to  
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Slotmode photometry  
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## HRSTOOLS

Tools for the high  
resolution  
spectrograph





## Version 0.45 Released in August 2013

- All basic reductions tools now work with variance frames
- Upgrades to longslit package for improved performance
- Enhanced performance of a number of tools
- Repository now on github to allow for better access

## Additional Upgrades to the pipeline software

- Integration of HRS data handling into pipeline (data currently being archived and distributed)
- Advanced pipeline with further data reductions currently being tested



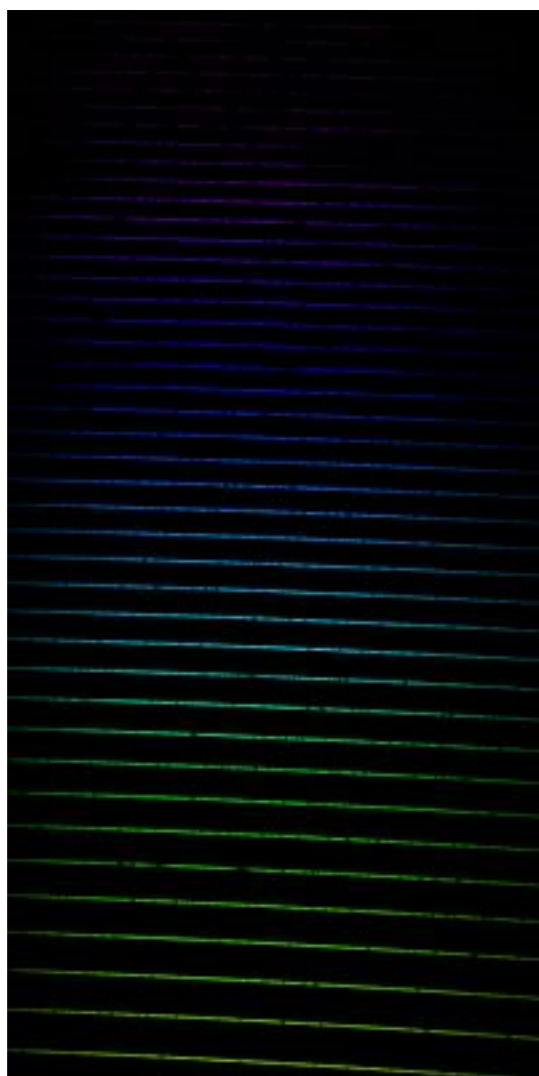
# Future work

Future work of the pipeline will focus on the following:

- Integration of basic reductions of HRS data
- HRS quick-look tool
- Improvements in MOS and LS reductions to allow further automation
- Complete Fabry-Perot reductions integrated into the PySALT package
- Improved tracking of SALT efficiency



# HRS Work



Luke Tyas

The creation of calibration frames requires the following IRAF tasks and adopting to the FIESTools package for quick look code:

- apdefault
- apfind
- apflat
- apflat1
- apflatten
- apscat1
- apscat2
- apscatter
- apsum
- apsum\_wave
- aptrace
- dispcor
- eidentify
- ecreidentify
- fit1d
- refspect



# Improved Data Access

Block					Observation details				Download Requests
Block	Observation time	Priority	Moon	Target(s)	Observation Date	Accepted?	Rejection reason	Edit	Data
									<input type="checkbox"/> Select/Deselect all
<b>MS0451-03M</b> ( <a href="#">view details</a> )	2805 sec	2	Dark	<b>MS0451.6-0305m</b>	2013-11-09	Yes		<input type="button" value="REJECT"/>	<input type="checkbox"/> Request data
									<input type="checkbox"/> Select/Deselect all
									Calibrations
									<input type="checkbox"/> Request spectrophotometric standards
									<input type="button" value="SUBMIT"/>

Download data from your proposals as well as request any spectrophotometric standards that were taken.



# VODAS



To download data [Login](#) using SALT Web Manager login credentials

[Simple Search](#) [Switch to Enhanced Search](#)

To search all available sources [click here](#)

OR

Source Name   
e.g.- NGC 6397 NGC 7184

OR

Enter co-ordinates below or resolve above object name

Resolve By  Simbad  NED

Ra  (hh mm ss.s)(J2000)

Dec  (dd mm ss.s)(J2000)

Radius

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7