

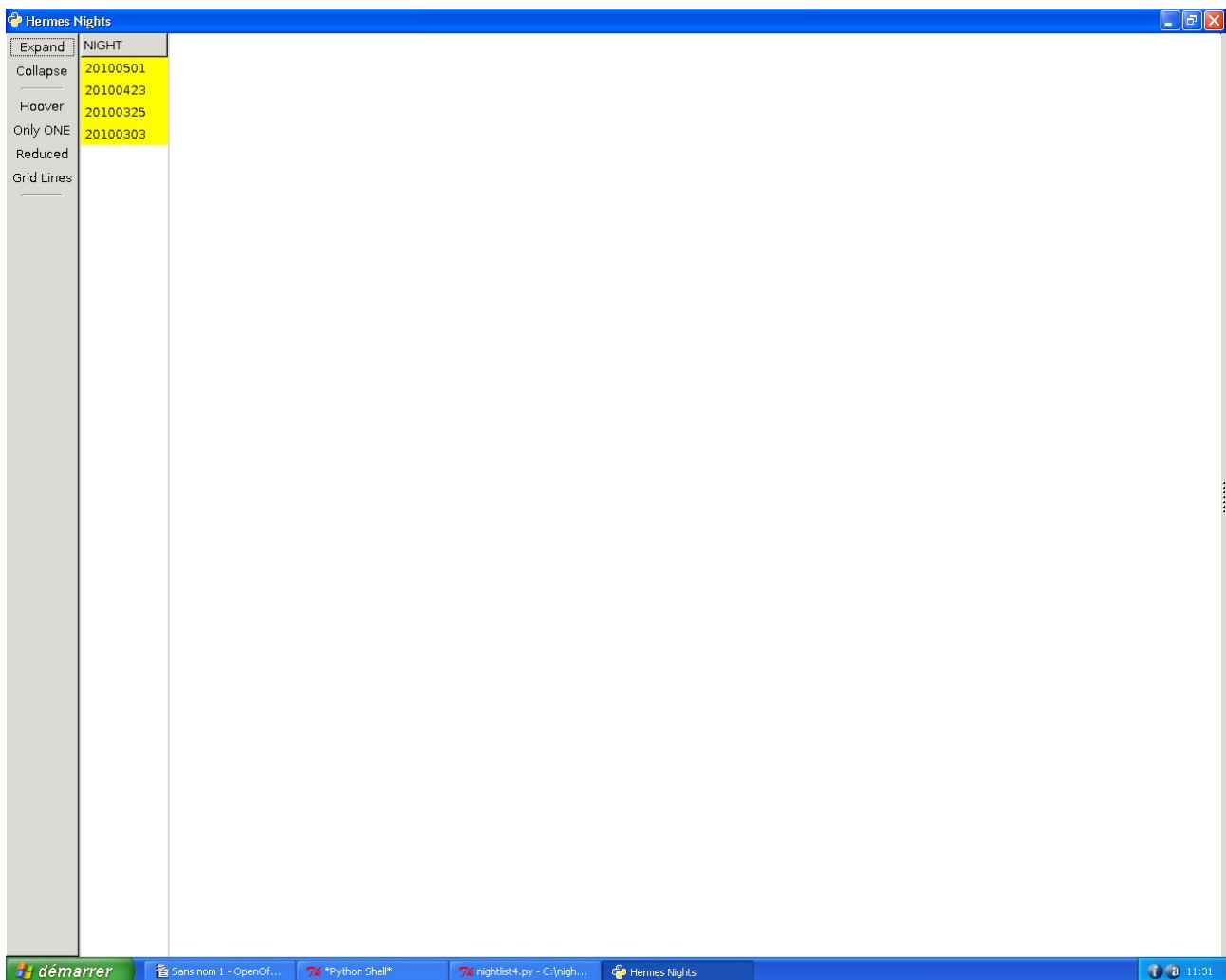
nightlist.py

See here a little tool that was initially made just to control that the daily files were correctly retrieved by FTP. But needs and ideas came along and the tool growth till its actual serious program state, and that's why you may enjoy it.

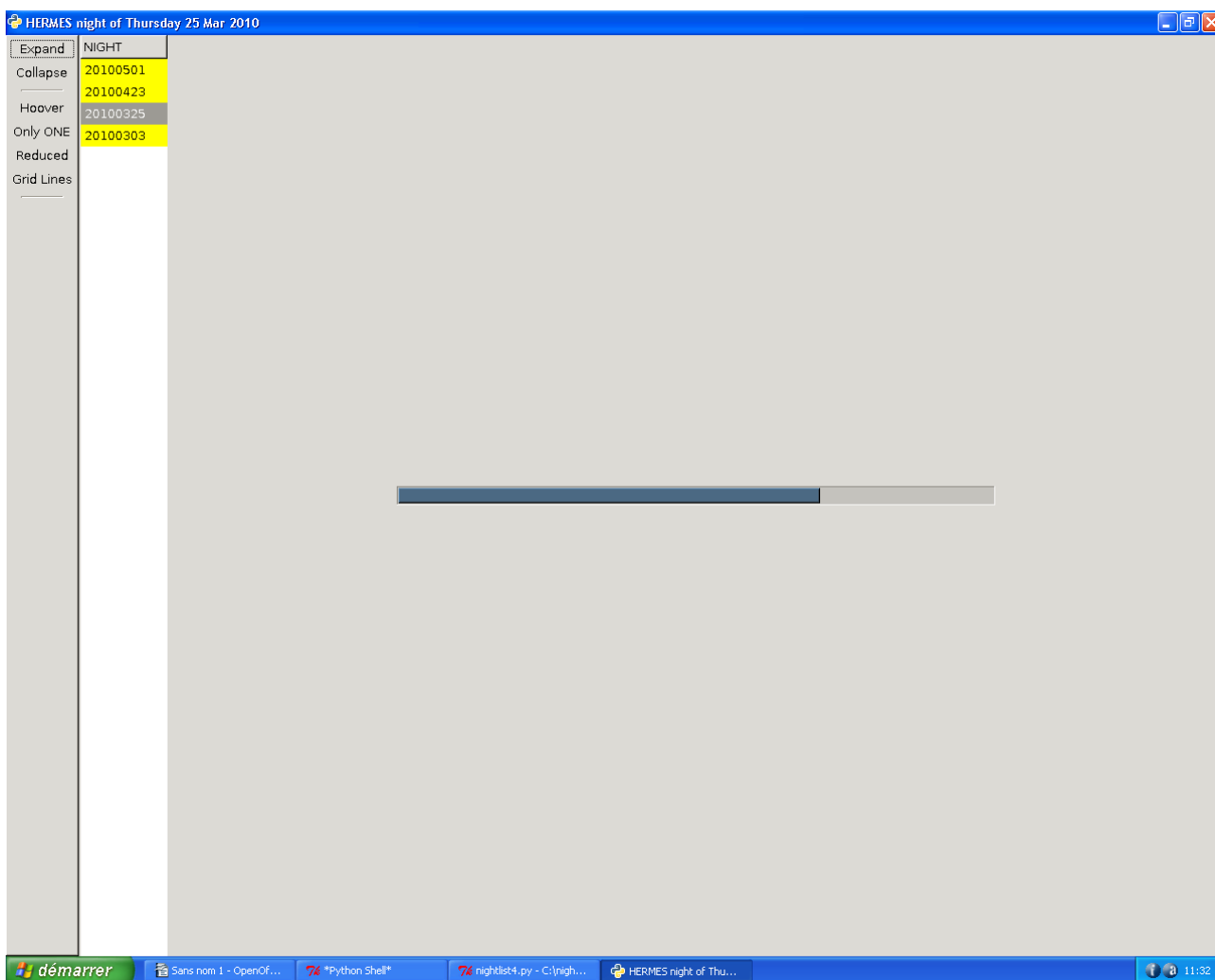
It is made to be copied in the «**nights**» folder but you may start it from another place just by adapting the path written inside.

At start, it shows a list of nights found in the nights folder, and when a night is selected, it shows the list of files found in the raw folder, with corresponding reduced files. When an object file is selected having entries in the «**reduced/ORDERS**» folder, the graphic shows up at the right, with all facilities to zoom, print, save, or change order. The program needs python, pyfits, gtk, pango, matplotlib, pylab and matplotlib.backends.backend_gtkagg to be up and running.

The goal is to quickly verify most orders of most files of most nights, in order to help some quality control of the pipeline products, but with your help it will be possible to make it better and your suggestions are welcome.



At the starting point, we see the menu at the left side of the screen and a list of the nights.



When a night is selected, the program inspects every file to produce a detailed list :

HERMES night of Thursday 25 Mar 2010 observed by Peter Papies

Expand	NIGHT	File	Type	Fibre	Object	HJD	Program
Collapse	20100501	279860	BIAS		bias		
	20100423	279861	BIAS		bias		
Hoover	20100325	279862	BIAS		bias		
Only ONE	20100303	279863	BIAS		bias		
Reduced		279864	BIAS		bias		
Grid Lines		279865	BIAS		bias		
		279866	BIAS		bias		
BIAS		279867	BIAS		bias		
TH		279868	BIAS		bias		
FF		279869	BIAS		bias		
OBJ		279870	BIAS		bias		
		279871	TH	HRF	wavelength cal		
		279872	TH	HRF	wavelength cal		
		279873	TH	HRF	wavelength cal		
		279874	TH	HRF	wavelength cal		
		279875	TH	HRF	wavelength cal		
		279876	FF	HRF	Flat		
		279877	FF	HRF	Flat		
		279878	FF	HRF	Flat		
		279879	FF	HRF	Flat		
		279880	FF	HRF	Flat		
		279881	FF	HRF	Flat		
		279882	FF	HRF	Flat		
		279883	FF	HRF	Flat		
		279884	FF	HRF	Flat		
		279885	FF	HRF	Flat		
		279886	TH	HRF	wavelength cal		
		279887	TH	HRF	wavelength cal		
		279888	OBJ	HRF	HD 38771	2455281.36335	6
		279889	OBJ	HRF	HD 37742	2455281.36623	6
		279890	OBJ	HRF	HD 46769	2455281.37255	6
		279891	OBJ	HRF	HD73667	2455281.38094	1
		279892	TH	HRF	wavelength cal		
		279893	OBJ	HRF	HD37605	2455281.39256	6
		279894	OBJ	HRF	HD 38771	2455281.40582	6
		279895	OBJ	HRF	HD 37742	2455281.4083	6
		279896	OBJ	HRF	HD 46769	2455281.42702	6
		279897	OBJ	HRF	HD 50064	2455281.45239	6
		279898	TH	HRF	wavelength cal		
		279899	OBJ	HRF	TYC 3022-1004-1	2455281.49093	6
		279900	TH	HRF	wavelength cal		

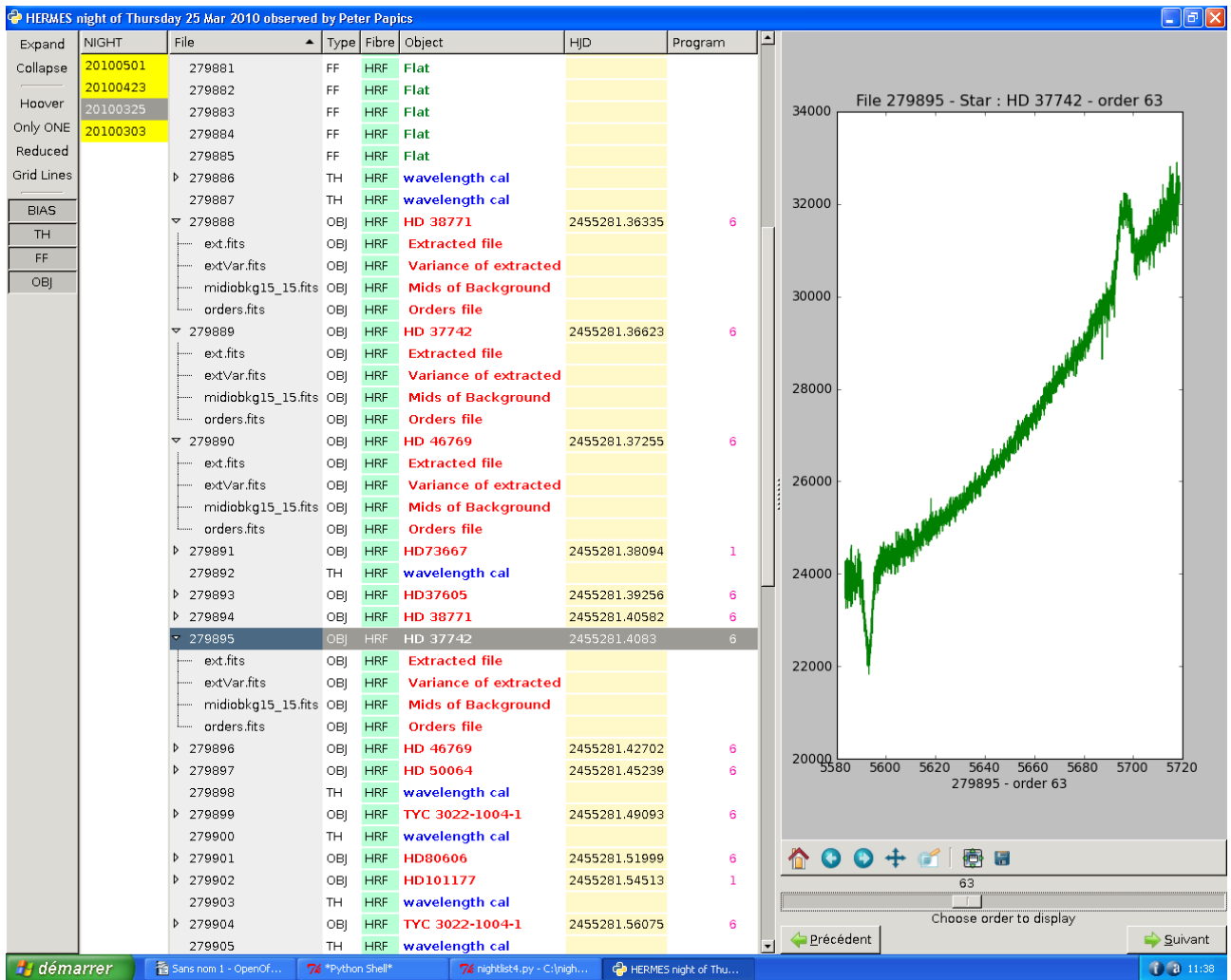
démarrer Sans nom 1 - OpenOf... Python Shell* nightlist4.py - C:\nigh... HERMES night of Thu... 11:33

As you can see, six columns are shown with information coming from the fits files. You can sort the information on any column, by clicking the column header.

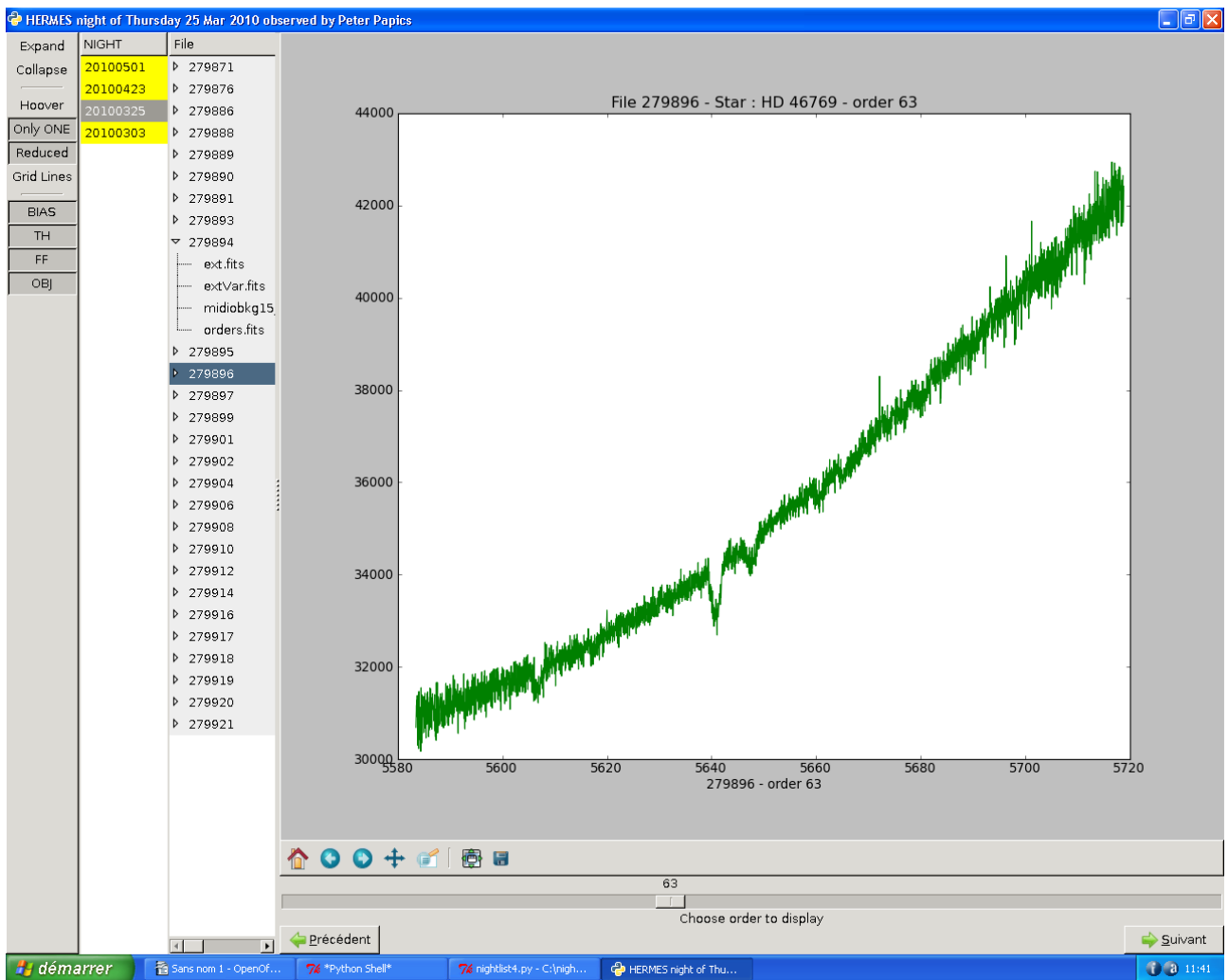
Buttons have been added at the left side, permitting to limit the rows to display on the content of file kind.

HERMES night of Thursday 25 Mar 2010 observed by Peter Papiés						
Expand	NIGHT	File	Type	Fibre	Object	Program
Collapse	20100501	279881	FF	HRF	Flat	
	20100423	279882	FF	HRF	Flat	
Hoover	20100325	279883	FF	HRF	Flat	
Only ONE	20100303	279884	FF	HRF	Flat	
Reduced		279885	FF	HRF	Flat	
Grid Lines		279886	TH	HRF	wavelength cal	
		279887	TH	HRF	wavelength cal	
BIAS		279888	OBJ	HRF	HD 38771	2455281.36335 6
TH		ext.fits	OBJ	HRF	Extracted file	
FF		extVar.fits	OBJ	HRF	Variance of extracted	
OBJ		midobjkg15_15.fits	OBJ	HRF	Mids of Background	
		orders.fits	OBJ	HRF	Orders file	
		279889	OBJ	HRF	HD 37742	2455281.36623 6
		ext.fits	OBJ	HRF	Extracted file	
		extVar.fits	OBJ	HRF	Variance of extracted	
		midobjkg15_15.fits	OBJ	HRF	Mids of Background	
		orders.fits	OBJ	HRF	Orders file	
		279890	OBJ	HRF	HD 46769	2455281.37255 6
		ext.fits	OBJ	HRF	Extracted file	
		extVar.fits	OBJ	HRF	Variance of extracted	
		midobjkg15_15.fits	OBJ	HRF	Mids of Background	
		orders.fits	OBJ	HRF	Orders file	
		279891	OBJ	HRF	HD73667	2455281.38094 1
		279892	TH	HRF	wavelength cal	
		279893	OBJ	HRF	HD37605	2455281.39256 6
		279894	OBJ	HRF	HD 38771	2455281.40582 6
		279895	OBJ	HRF	HD 37742	2455281.4083 6
		ext.fits	OBJ	HRF	Extracted file	
		extVar.fits	OBJ	HRF	Variance of extracted	
		midobjkg15_15.fits	OBJ	HRF	Mids of Background	
		orders.fits	OBJ	HRF	Orders file	
		279896	OBJ	HRF	HD 46769	2455281.42702 6
		279897	OBJ	HRF	HD 50064	2455281.45239 6
		279898	TH	HRF	wavelength cal	
		279899	OBJ	HRF	TYC 3022-1004-1	2455281.49093 6
		279900	TH	HRF	wavelength cal	
		279901	OBJ	HRF	HD80606	2455281.51999 6
		279902	OBJ	HRF	HD101177	2455281.54513 1
		279903	TH	HRF	wavelength cal	
		279904	OBJ	HRF	TYC 3022-1004-1	2455281.56075 6
		279905	TH	HRF	wavelength cal	

In front of the file index, one see a small vertical arrow, showing that reduced files are available for this index in the «**reduced**» folder. Clicking on that arrow displays the file names.



When an object file is selected for which entries are found in the «**reduced/ORDERS**» folder, a graphic is displayed at the right, showing the possibility to browse the available orders.



With the options available in the left menu, one may limit the display to all reduced files, and limit the collapsed branches to the current one.

The user has also enlarged the graph with the vertical handle situated between the graph and the file list. Just grab it and move it horizontally.