



Spectroscopic Record Sheet



Details on acquisitions

Object	DeGaPe 63
Coordinates (J2000)	13:44:14.60 -62:47:01.70
Type	New candidate

Observation date	3.145/04/2022
Weather conditions	/
Observer	2SPOT
Location	Deep Sky Chile (CL)

Mount	10 Micron GM3000 HPS
Telescope	Ritchey-Chrétien RC12
Spectroscope	Alpy 600 (23um slit)
Resolution (bin 1x1)	~1nm at 656 nm
Principal camera	Atik 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at 656 nm
Cam temperature	-10°C
Binning	2x2
Guiding camera	Atik 314L+
Data acquisition Soft	Prism v10.4.12.911
Data processing soft	ISIS V6.1.1

Exposure on object	9 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD114570_A0V
Exposure on ref star	15 x 8 s
Ref star Sp. date	3.227/04/2022



Slit position and images

Slit position



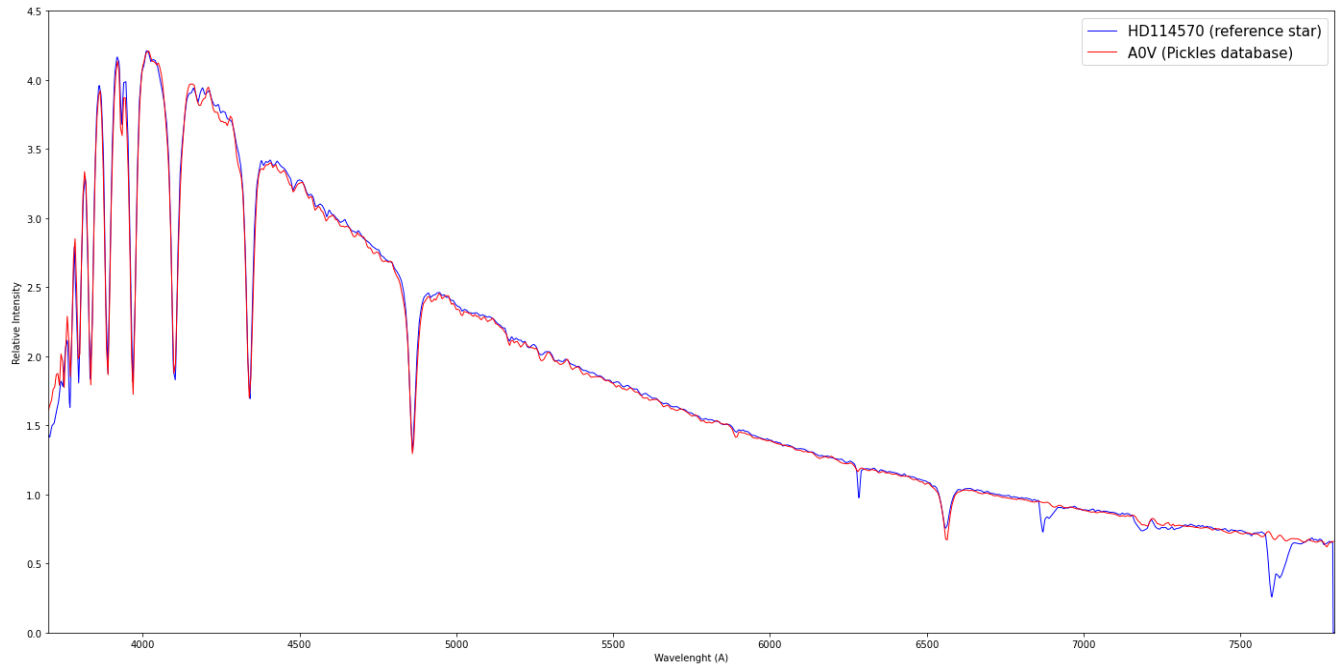
Object picture(s)



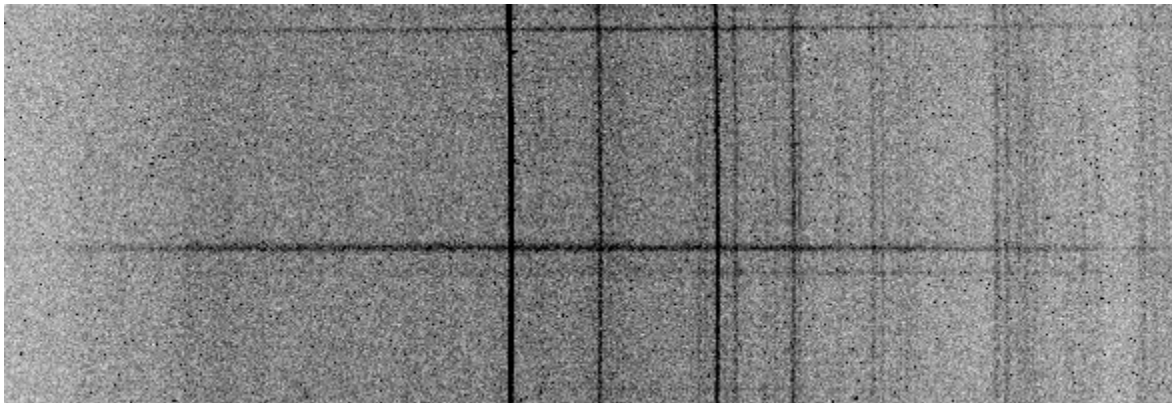


Instrumental Response and 2D Spectrum

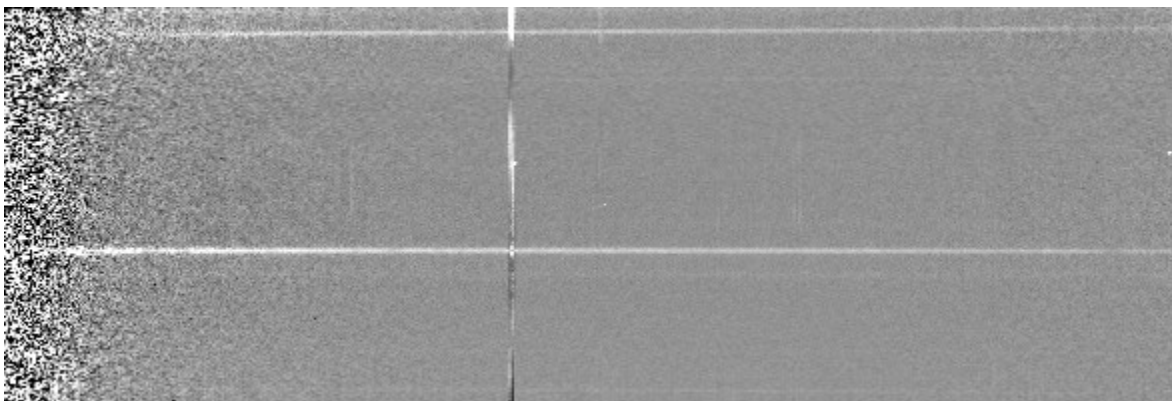
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

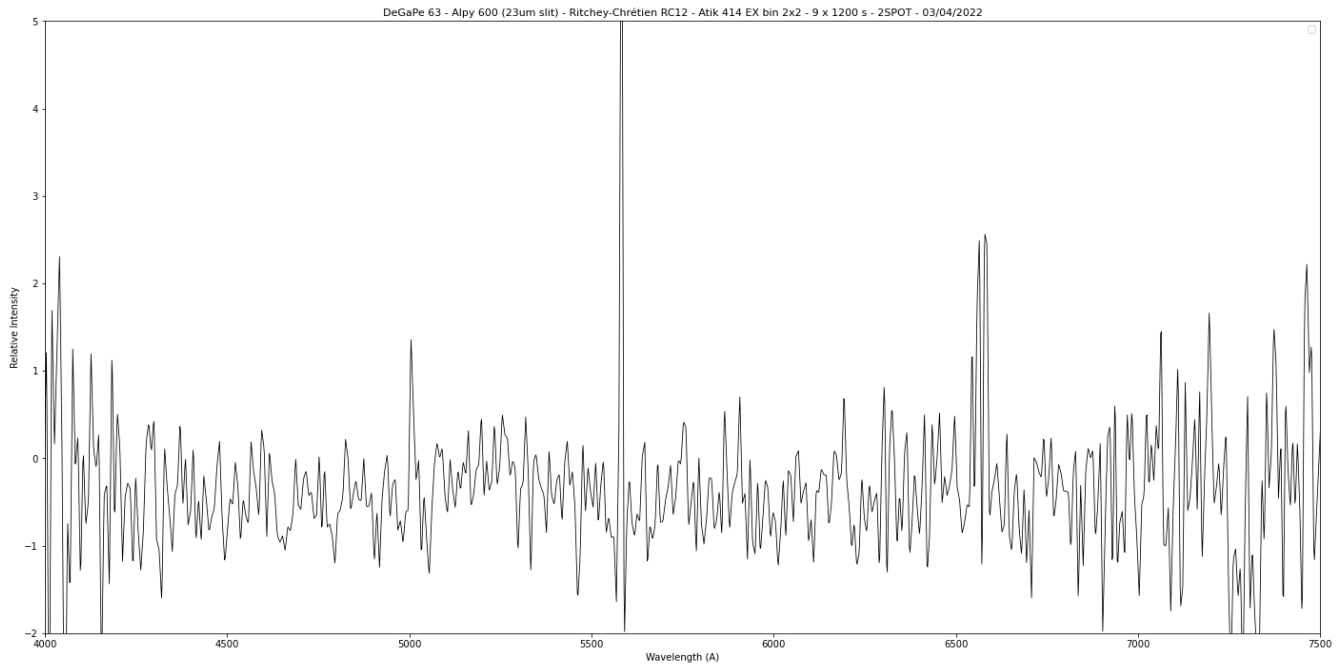


2D Raw spectrum



2D Processed spectrum





Comments

DeGaPe 63 is a very faint object.

H α and [OIII] (4959-5007) are well visible on 2d spectrum.

H β is fainter but might be here too.

It's difficult to make everyone appear on 1d spectrum because of the low brightness of the object.

1d spectrum is mainly showing [NII], H α and OIII.

Not take into account the line at 5580...