



Spectroscopic Record Sheet



Details on acquisitions

Object	Dsi 1
Coordinates (J2000)	01:11:01.75 -74:05:49.00
Type	New candidate

Observation date	17.072/11/2025
Weather conditions	/
Observer	2SPOT
Location	Deep Sky Chile (CL)

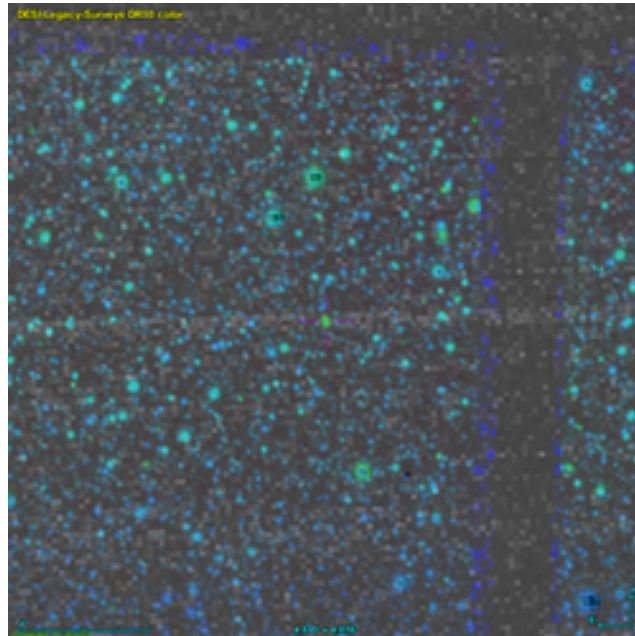
Mount	10 Micron GM3000 HPS
Telescope	Newton 300mm F/4
Spectroscope	Alpy 600 (23um slit)
Resolution (bin 1x1)	~1nm at 656 nm
Principal camera	Atik 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at 656 nm
Cam temperature	-10°C
Binning	1x1
Guiding camera	ASI 178MM
Data acquisition Soft	Prism v11.2.3.21
Data processing soft	ISIS V6.1.1

Exposure on object	3 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD15008_A3V
Exposure on ref star	12 x 4 s
Ref star Sp. date	17.108/11/2025

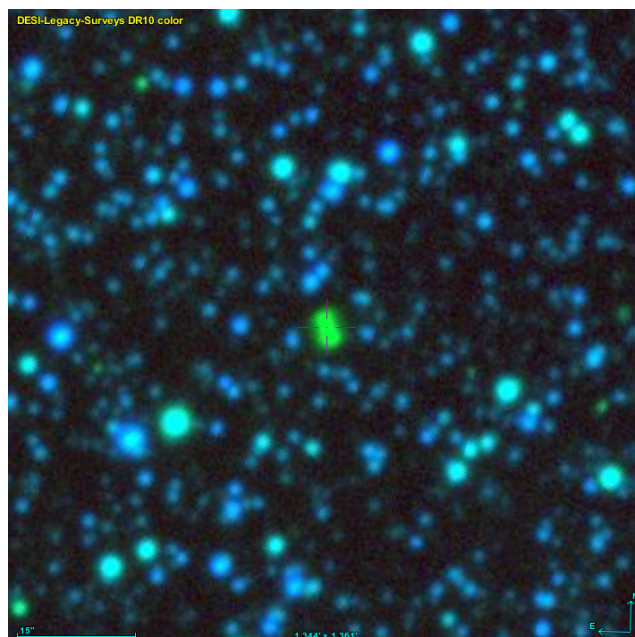


Slit position and images

Slit position



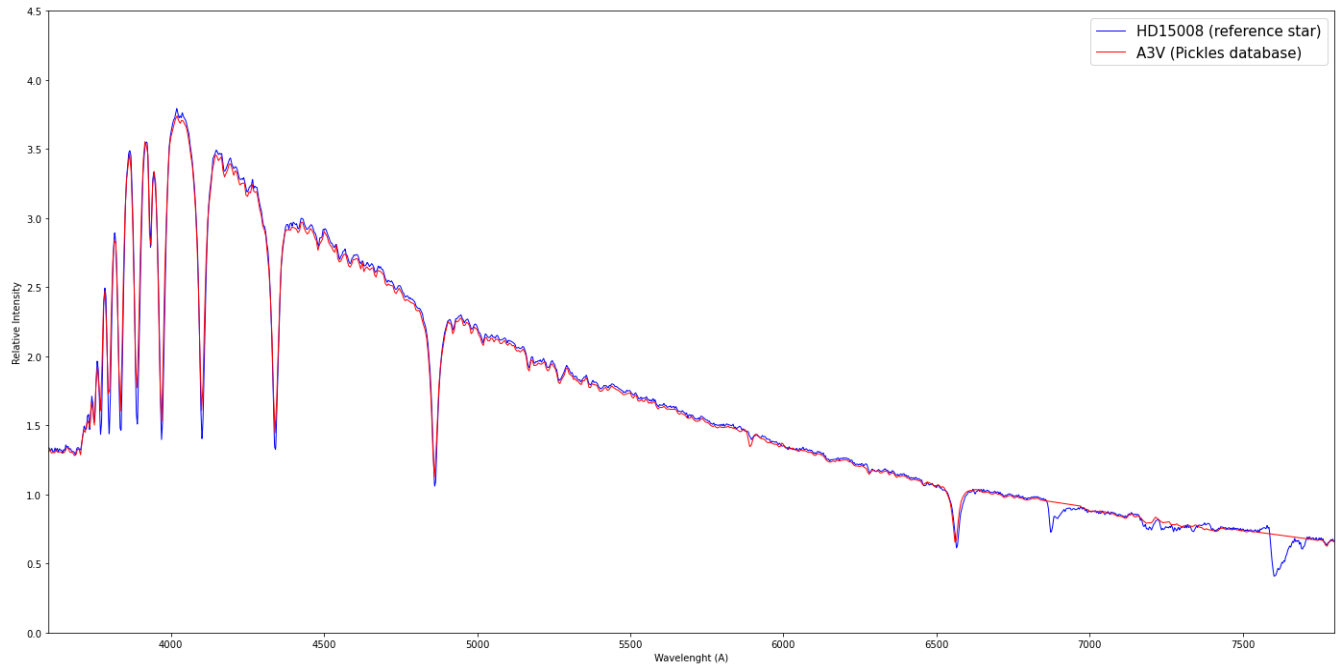
Object picture(s)



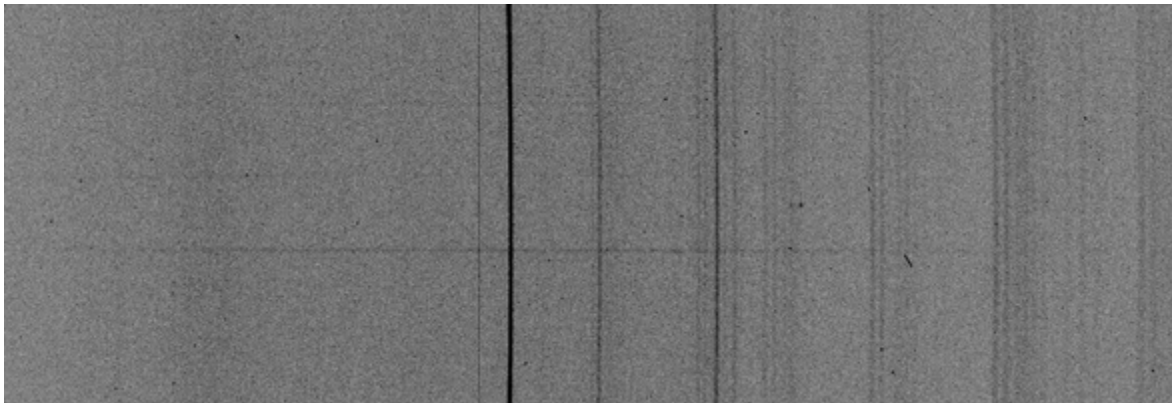


Instrumental Response and 2D Spectra

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



2D Raw spectrum

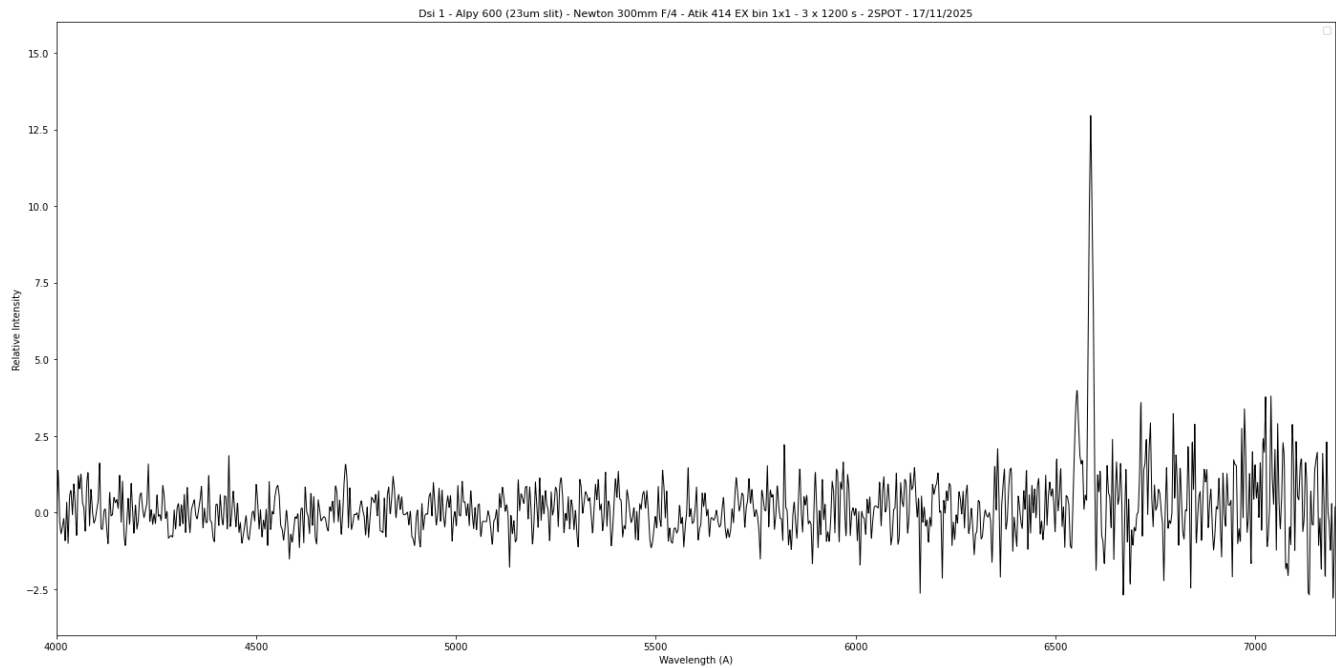


2D Processed spectrum





Results



Comments

Fine H α line and strong [NII] lines detected. No [OIII] lines, no continuum.
Dsi 1 may be a low-density planetary nebula.