Spectroscopic Record Sheet

Details on acquisitions

Object	Jonk_Objet 1
Coordinates (J2000)	12:33:50.04 -35:26:18.67
Type	/

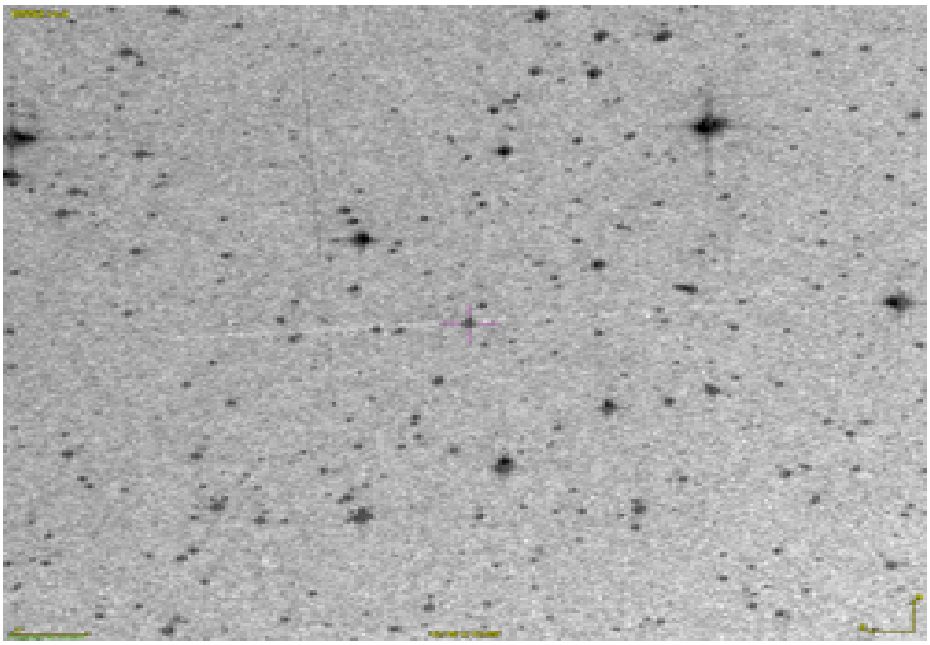
Observation date	2.346/04/2023
Weather conditions	/
Observer	2SPOT
Location	Deep Sky Chile (CL)

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	Atik 314L+
Data acquisition Soft	Prism v10.4.11.908
Data processing soft	ISIS V6.1.1

Exposure on object	4 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected
Reference star calib.	HD111774_B8V
Exposure on ref star	10 x 10 s
Ref star Sp. date	2.406/04/2023

Slit position and images

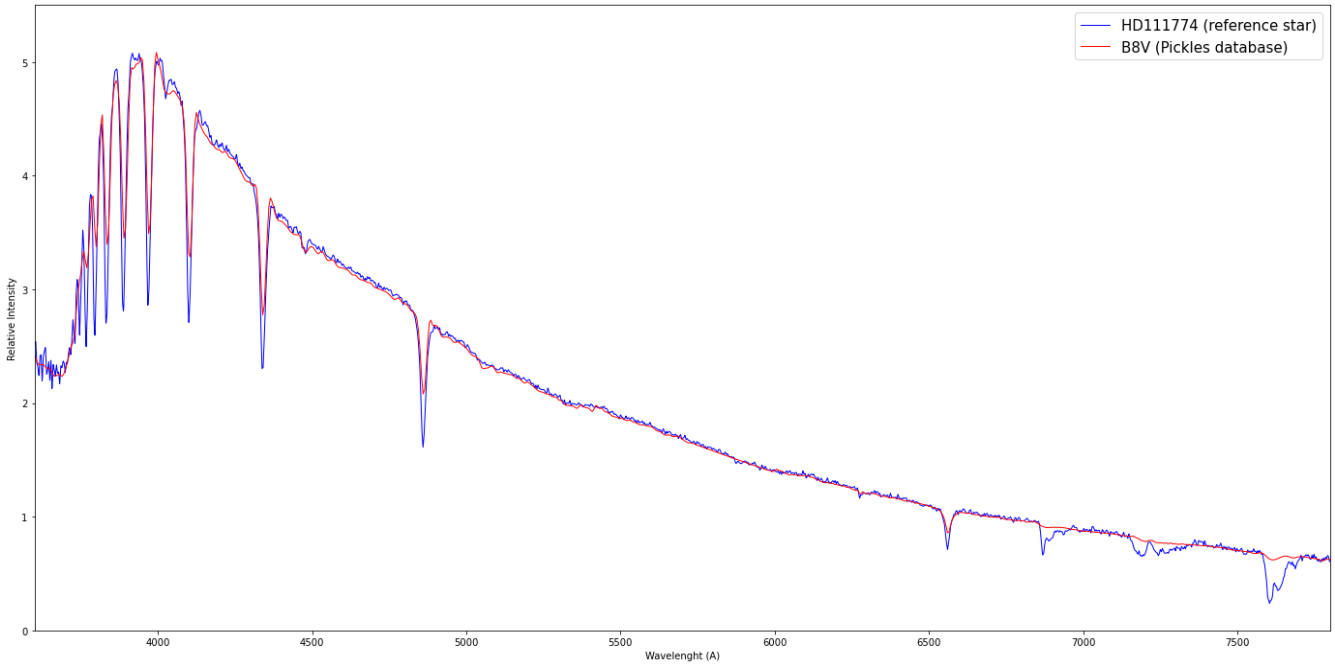
Slit position



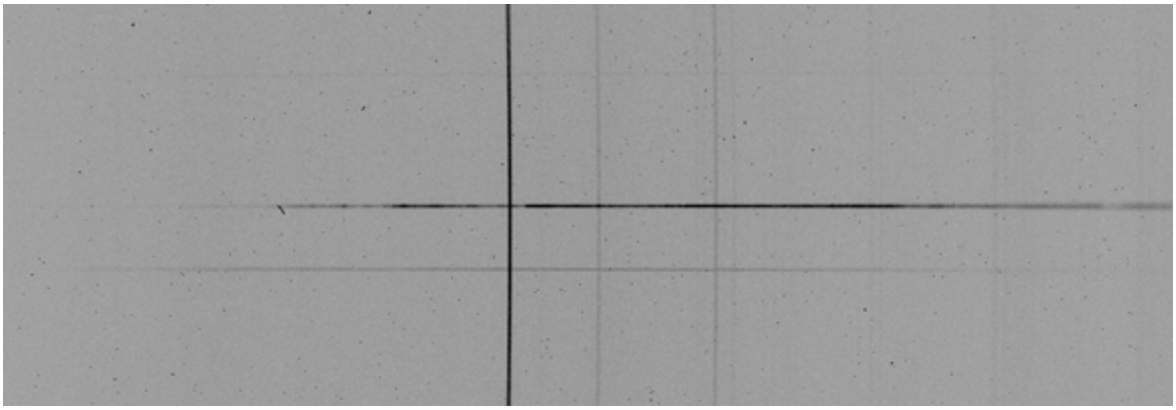
Object picture(s)

Instrumental Response and 2D Spectra

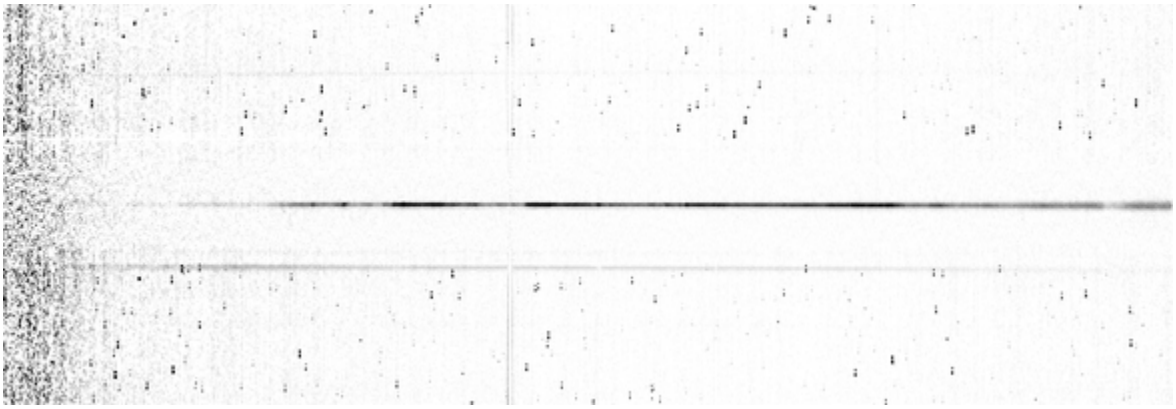
Instrumental response (red = theoritical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)



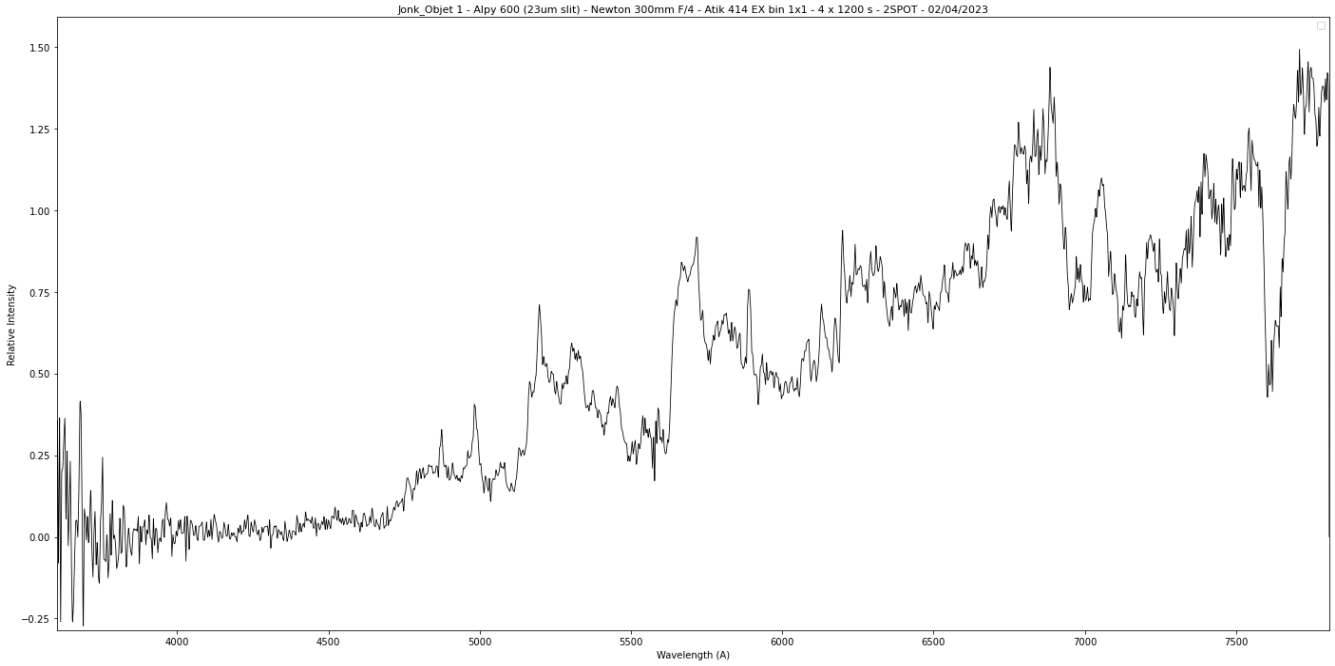
2D Raw spectrum



2D Processed spectrum



Results



Comments

Spectrum showing the continuum of a cold star.
Object classified as a carbon star with the name IRAS 12311-3509 in Simbad.
The line identification is complex.
This object has a similar morphology to Hen 3-401 but shows a very faint Halpha line in emission, barely visible, unlike Hen 3-401.