



Spectroscopic Record Sheet



Details on acquisitions

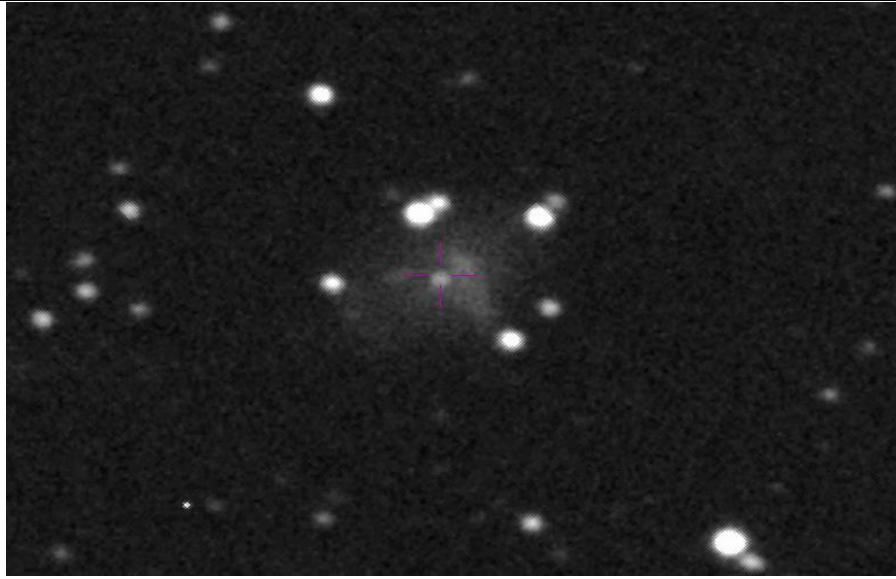
Object	StDr7
Coordinates (J2000)	19:50:11.26 +26:43:32.09
Type	PN Candidate

Observation date	17.914/06/2020 (d/m/y)
Meteorological conditions	18°C
Observer	L.Mulato
Location	Cornillon France

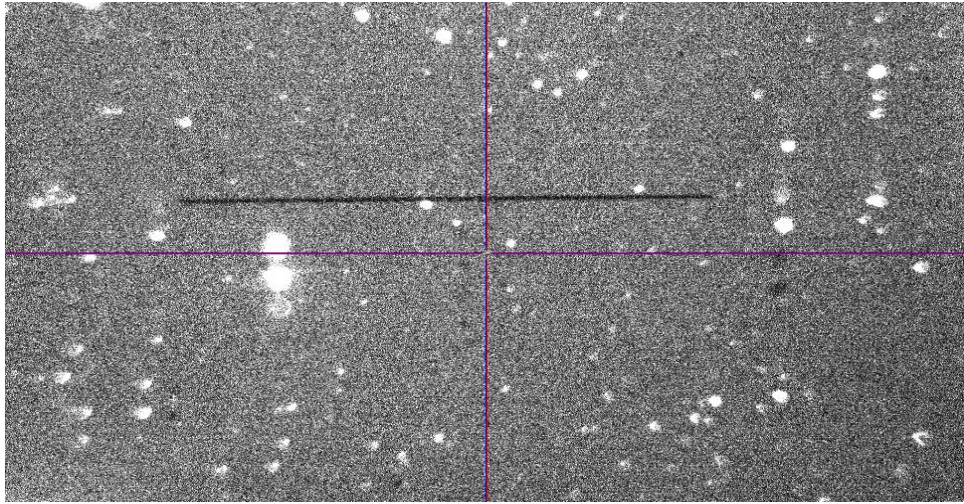
Mount	NEQ6
Telescope	Newton Skywatcher 200 mm F/5
Spectrograph	Alpy 600 - 23 μm slit
Resolution (bin 1x1)	$\sim 1 \text{ \AA}$ at $\lambda 656 \text{ nm}$
Science camera	ATIK 414 EX
Dispersion (bin 1x1)	$\sim 0,3 \text{ nm/pixel}$ at $\lambda 656 \text{ nm}$
Cam Temperature	0 °C
Binning	2x2
Guiding camera	ASI290 MM non cooled
Data acquisition Soft	PRISM V10
Data processing Soft	Isis V5.9.3

Exposure on object	8	x	600	s
Master Dark date	22/05/2020		(d/m/y)	
Dark Exposure	7	x	600	s
Dark Temperature	0		°C	
Master Offset date	22/05/2020		(d/m/y)	
Master Flat date	22/05/2020		(d/m/y)	
Neon-Argon calib. date	18/06/2020		(d/m/y)	
Reference star calib.	HD206774			
Exposure on ref star	10	x	15	s
Ref Star Sp. date	18.039/06/2020			

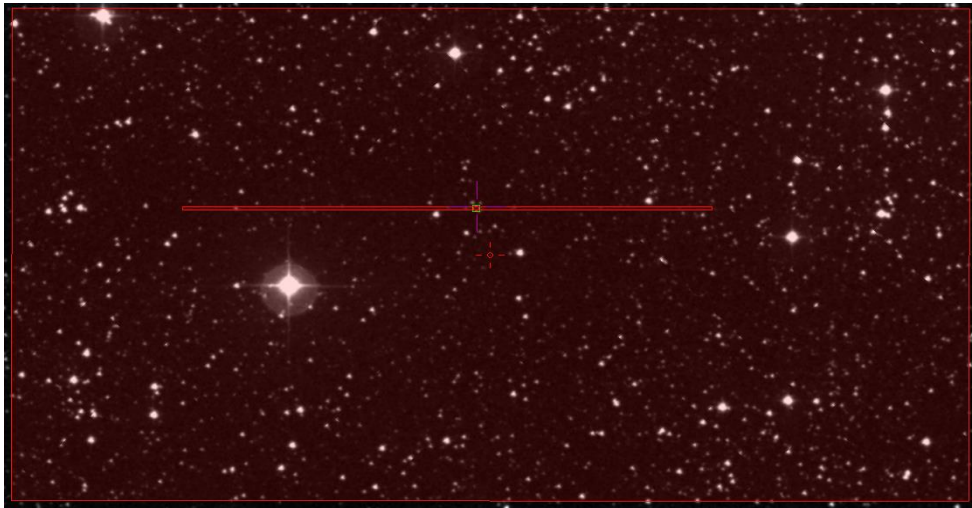
Image Iphas



Slit position
Autoguider



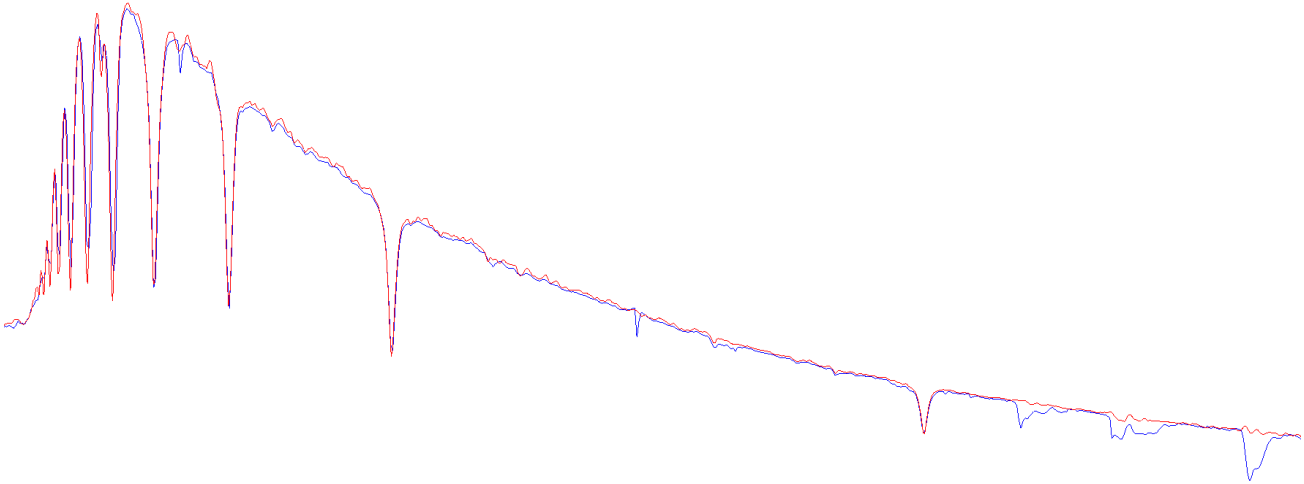
Slit position
IPHAS



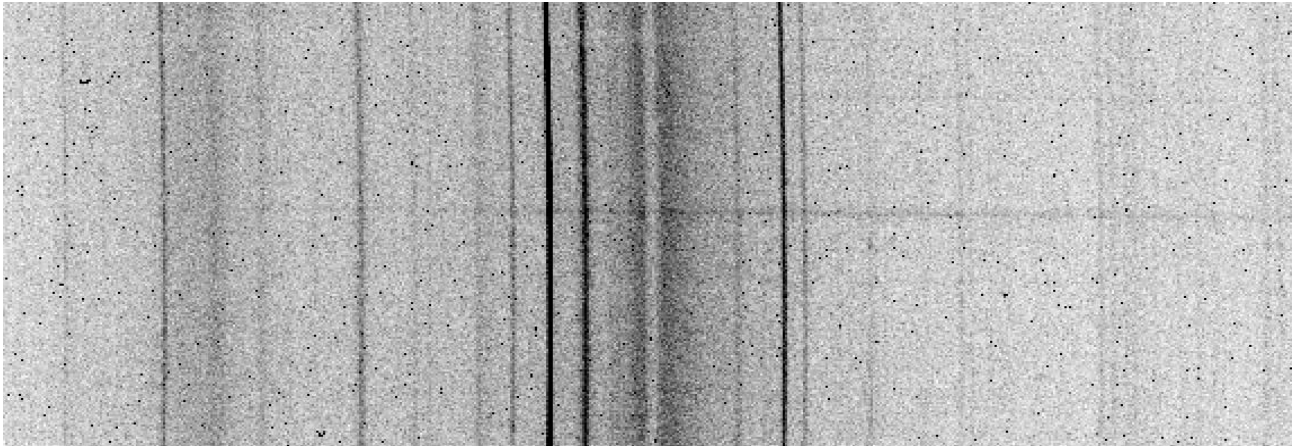


Instrumental Response and 2D Spectrum

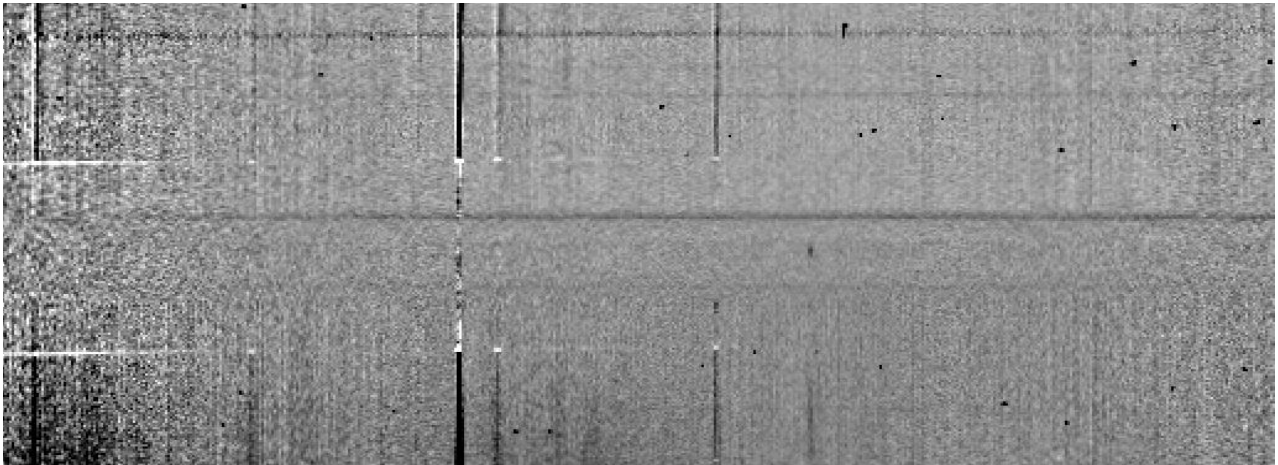
Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

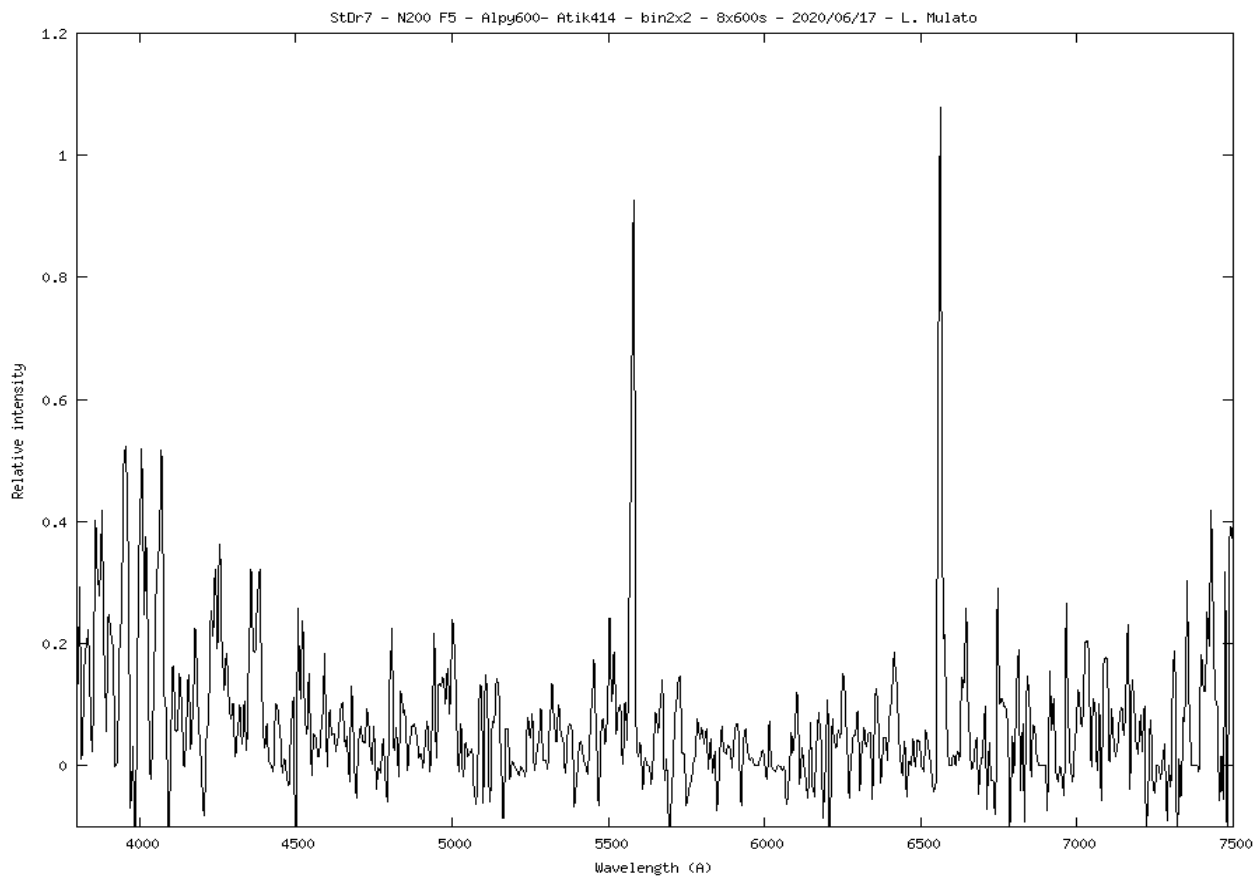


2D Raw spectrum



Processed 2D spectrum





Comments:

Lines detected : H-alpha only. No [O III] nor H-bêta.

StDr 7 MIR colours look consistent with a PN (W3 W4 Wise bands, mips24).

Strong airglow line couldn't have been removed.

StDr 7 could be a reddened PN or just an HII Region.