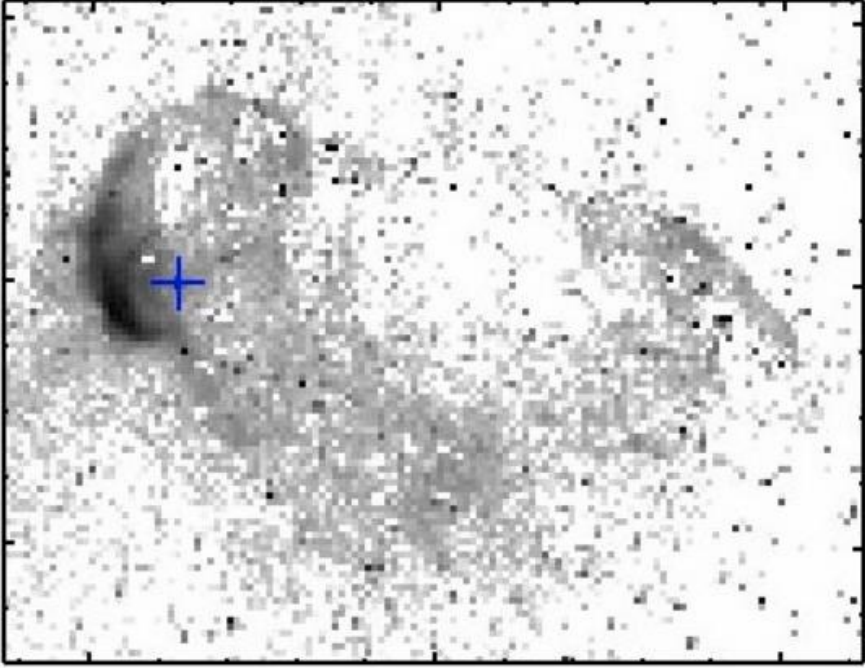
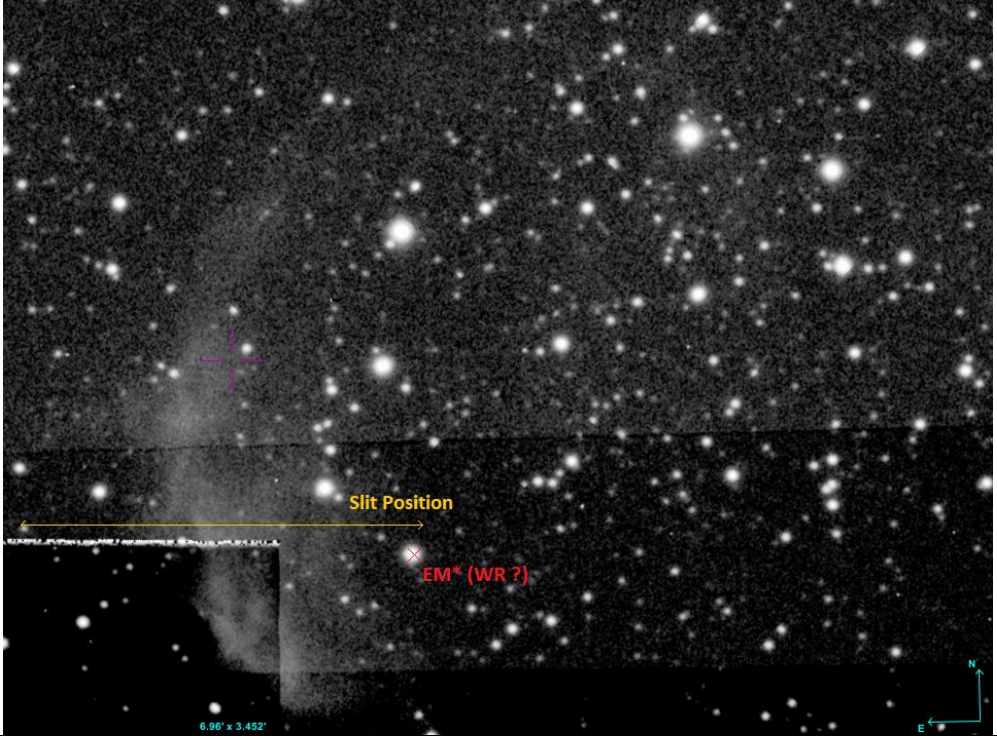
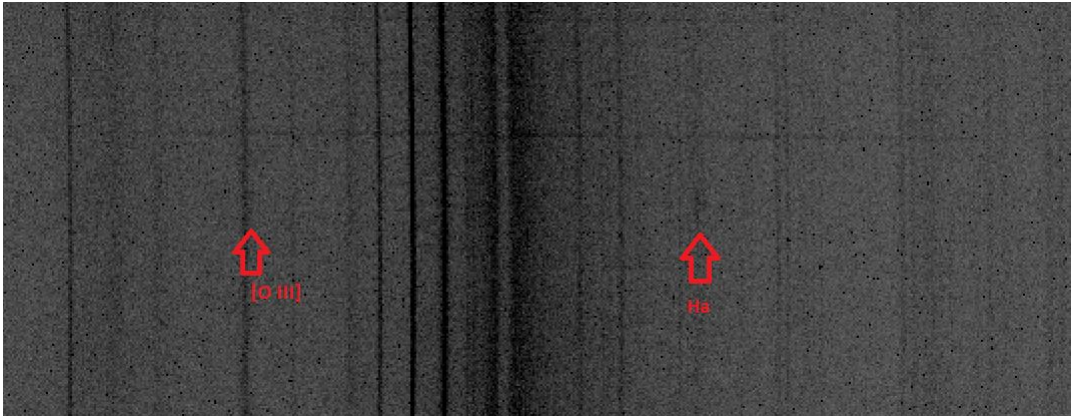


SPECTROSCOPIC RECORD SHEET

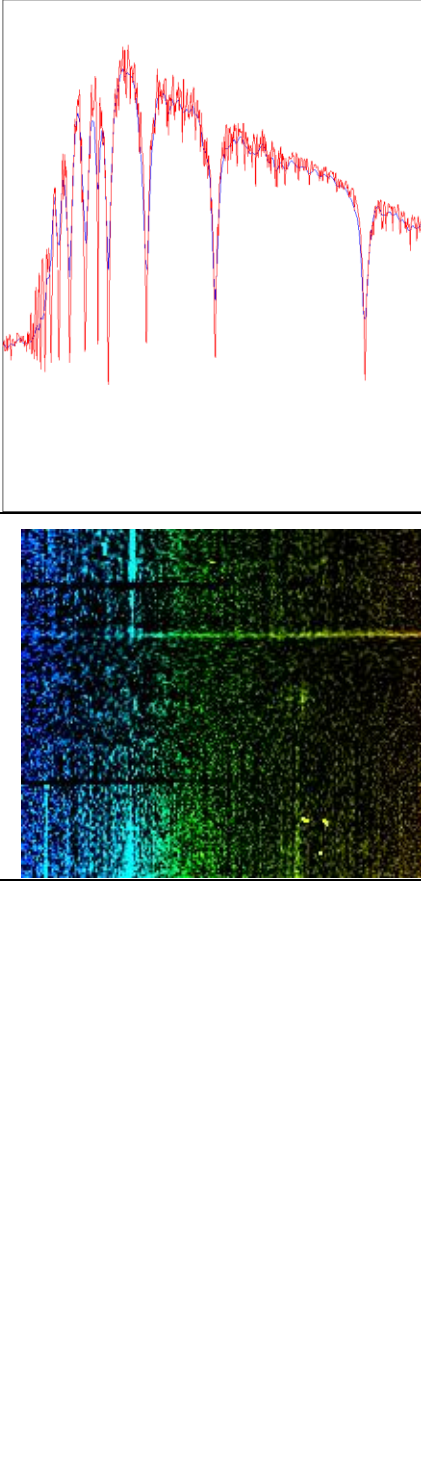
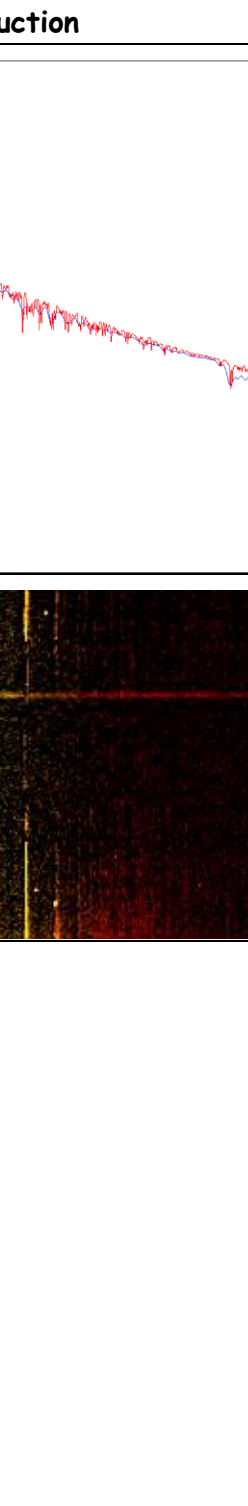
Object Identification	
Object	IPHASX J195919.6+283827
Object Type	PN, HII or WR Ring Nebula Candidate
Classification	-
Coordinates J2000	19 59 19.6 28 38 27
Image Source : R. L. M. Corradi et al.: IPHAS and the symbiotic stars. II. (A&A 509, A41 (2010)) Em* (WR candidate) : IPHASJ195935.55+283830.3	 <p>Fig. 9. The continuum-subtracted Hα IPHAS image of the nebulosity around IPHASJ195935.55+283830.3. The position of the star is indicated by the cross. 5'' \times 5'' pixel binning has been applied to highlight the faintest structures in the nebula. The field of view is 650'' \times 500''. North is up, East is left.</p>

Observation Details	
Date mm/dd/yyyy	06/30/2019
Location	Cornillon (France – Gard)
Observer Name	Lionel Mulato
Observation period	De 23h20 à 01h00 TU
Weather conditions (Air temperature, wind, atmospheric pressure, seeing)	T=26 - 28 °C Wind : 0 km/h Very bad seeing

Equipment	
Mount	NEQ6
Telescope	Newton Skywatcher 200 mm F/5
Spectrograph	Alpy 600 - 23 μm slit
Science camera	ATIK 414 EX, temperature : 0°C
Guiding camera	ASI290 MM non cooled
Data acquisition Soft	ATIK Artemis
Data processing Soft	Isis V5.9.3

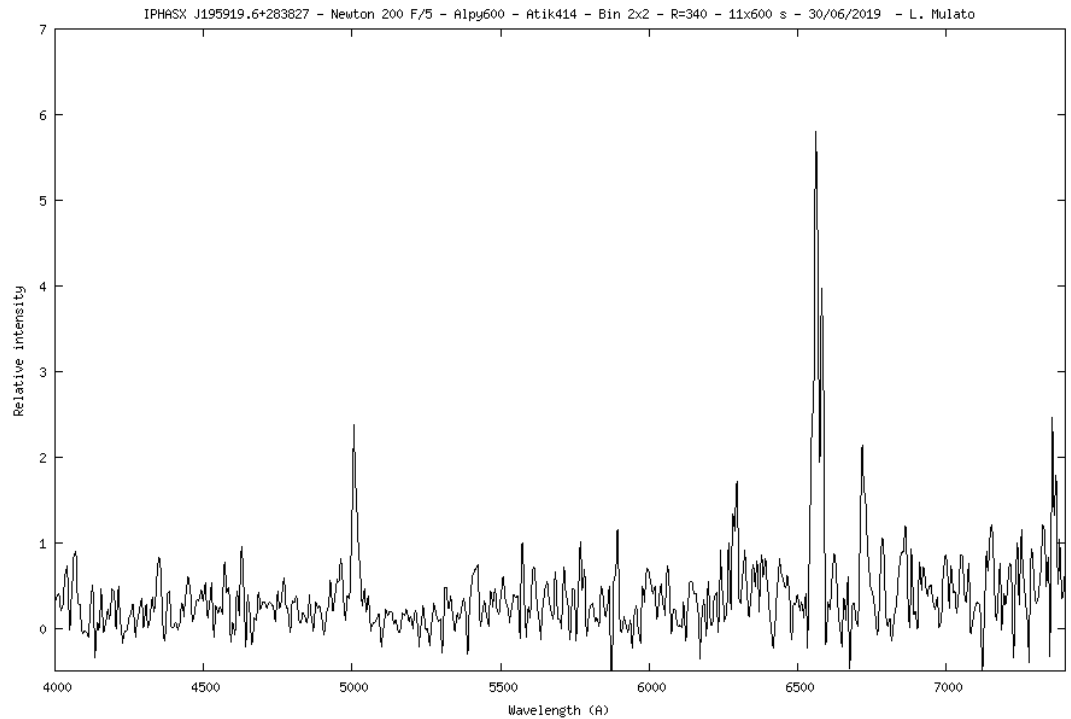
Acquisition parameters	
Binning	2x2
<p>Slit Position</p> <p>IPHAS Ha image with slit position.</p> <p>The EM* couldn't be placed in the slit. The star remained invisible due to its faintness and bad seeing.</p>	 <p>The image shows a field of stars with a horizontal slit position indicated by a yellow double-headed arrow. A red 'X' marks the position of the star EM* (WR ?). A pink crosshair is visible on the left. A small inset image shows a zoomed-in view of the slit area. A compass in the bottom right corner indicates North (N) and East (E). The resolution is noted as 6.96" x 3.452" at the bottom left.</p>
Autoguider exposure time	1 second exposure
Raw acquisitions	11 x 10 min
<p>2D Raw Spectrum</p> <p>Remarks :</p> <p>Ha line detected</p> <p>extremely faint [O III] lines detected</p>	 <p>The spectrum shows vertical lines on a dark background. Two red arrows point upwards to specific lines, labeled [O III] and Ha.</p>

Reference Star	hd189849	25 x 8s acquired at 1h00TU
	Type : A4III	
Dark	30 x 10 minutes, acquisition date : 06/30/19	
Offset	104 x de 0.001 sec, acquisition date : 06/30/19	
Flat	50 x de 0,8 sec, acquisition date : 06/30/19	
Neon-Argon calib.	1 x 20 sec	

Data reduction		
Instrumental Response		
Processed Spectrum	2D	

1D Spectrum

Resolution : 338



Comments

Spectrum with bad signal to noise ratio. Spectrum normalization didn't work in ISIS.

Detected lines : [O III] doublet, Ha, [N II] 6583 Å lines and [S II] 6717 Å.

R. L. M. Corradi et al (A&A 509, A41 (2010)) indicates "*A deeper analysis, including additional data that we are acquiring for both the spatially unresolved emission-line source and the surrounding large nebula, will be presented in a forthcoming paper*". Unfortunately, I couldn't find this paper.

Conclusion

Iphasx J194533.8+210751 could be a PN, an H II region or NWR ?

Log Isis

Version : ISIS V5.9.3

Date du traitement : 23/07/2019 22:45:55

Nom de l'objet traité : IPHASX J195919.6+283827

Nom complet du fichier de l'objet traité : _iphasxj195919.6+283827_20190629_964_L.Mulato.fit

Chemin de sauvegarde : d:\astro\spectro\iphasx j195919.6+283827\

Nom générique des spectres 2D bruts : d:\astro\spectro\iphasx j195919.6+283827\iphas_

Nombre de spectres bruts : 11

Offset : d:\astro\spectro\iphasx j195919.6+283827\offset-0

Dark : d:\astro\spectro\iphasx j195919.6+283827\dark600s-0

Coefficient du dark : 1.0000

Flat : d:\astro\spectro\iphasx j195919.6+283827\flat08s-0

Étalonnage : mode standard

Spectre lampe étalon : d:\astro\spectro\iphasx j195919.6+283827\neon20s

Position Y de référence : 264

Taille pixel : 12.81

Registration verticale : non

Soustraction du fond de ciel : oui

Recentrage des spectres en longueur d'onde : non

Angle de slant : 220

Angle de tilt : 0.51

Retrait des rayons cosmiques : oui

Limite X1 : 208

Limite X2 : 486

Fichier cosmétique : d:\astro\spectro\iphasx j195919.6+283827\cosme600s-0

Filtre gaussien : 0

Fichier de réponse spectrale : reponse_hd189849

Fichier de transmission atmosphérique :

Décalage spectral : 0

Correction vitesse radiale : 0

Facteur de binning en sortie : 1

Indicatif du mode d'étalonnage : 2

Longueur d'onde de référence : 5852.49

Position X de référence : 401

Instrument : N200 F/5 ALPY600 ATIK414EX

Résolution : 341

Site : Cornillon

Observateur : L.Mulato

Delta heure : 0

Ciel Y1 : 30

Ciel Y2 : 15

Ciel Y3 : 12

Ciel Y4 : 25

Largeur de la zone de binning : 15

Binning optimisé : oui

Coefficient de rejection des cosmiques pour le binning : 50

Zone de normalisation [λ 1 - λ 2] : [6585 - 6600]

Sommation standard des profils individuels

Interpollation : bilinéaire

A4 : 7.661979E-10

A3 : -2.319454E-06

A2 : 0.001226486

A1 : 6.9107303

A0 : 3013.158

Date de prise de vue : 29/06/2019 23:07:58

Durée de prise de vue : 6695.0

Durée de prise de vue décomposée : 11 x 600 s

Date de milieu de prise de vue : 30.003/06/2019

Jour Julien géocentrique du milieu de prise de vue : 2458664.5026

Pouvoir de résolution : 340.6

RMS de l'étalonnage spectral : 0.00000