



BeSS report – January 2024

H-alpha monitoring

Data compiled by
Valérie Desnoux

Repository
<http://valerie.desnoux.free.fr/BeSS/>

93

Stars

147

Spectra

10

Observers

Observateur	Nb spec
Charbonnel Le Dû GARDE Mulato Petit	63
Stiewing	21
Leduc	16
Dupont	14
Guarro Fló	11
de Bruin	10
Foschino	7
Ventura	2
Leonardi	2
Bryssinck	1
Total général	147

Events of the month...

EE: Emission Event, ME: Moderate Events, DE: Decreasing Event

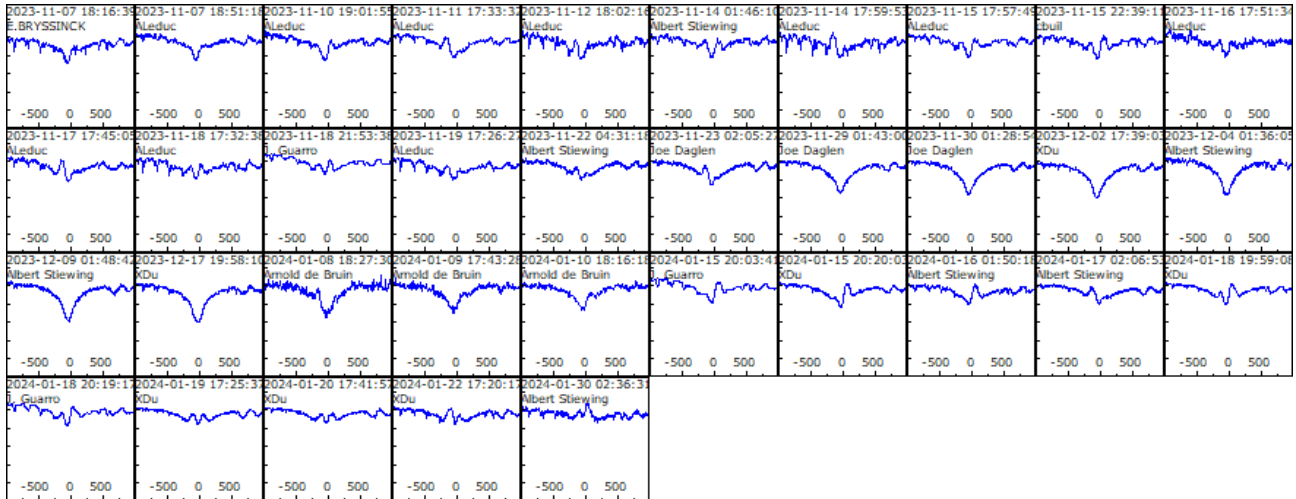
EE	ME	DE
HD 237091	CT Cam	PLEIONE
V1369 Ori	14 Lac	pi Aqr
HD 225095	FY Vel	lam Eri
V353 Car	HD 29557	OT Gem
V1008 Cen	HD 125015	AG Car
LX Vel	HD 127756	iot Ara
HD 85860	HD 118094	PZ Gem
HD 119682	HD 124834	V862 Ara
CV Cir	HD 98922	HD 90490
CK Cir		HD 103574
V958 Cen		HD 93843
		eta Cen
		LV Mus
		HD 116875
		V946 Cen
		HD 131168
		V1018 Cen
		V774 Cen
		CO Cir
		I Pup

Objects observed

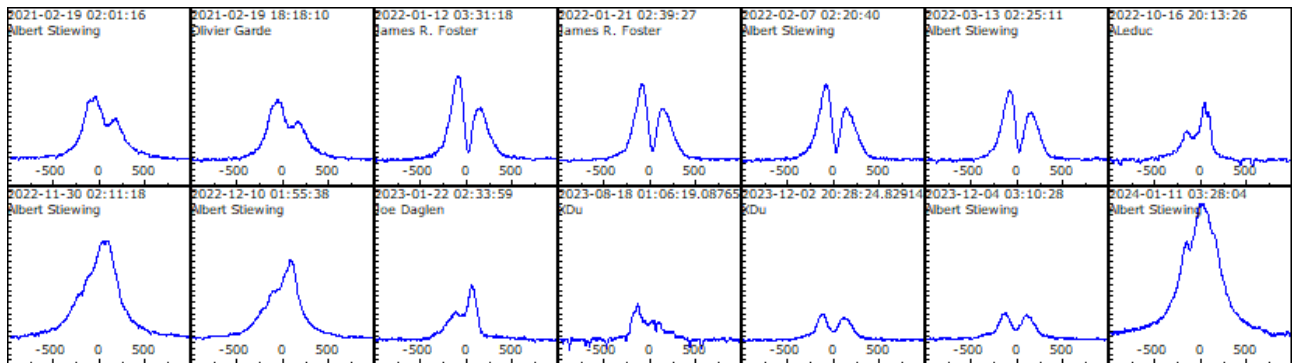
Classique							Herbig
V442 And	PLEIONE	pi Aqr	CT Cam	ELECTRA	V801 Cas	gam Cas	UX Ori
lam Eri	zet Tau	OT Gem	HD 237091	14 Lac	MEROPE	nu Cyg	HD 98922
48 Per	Menkhib	omi And	phi And	105 Tau	ALCYONE	HD 22780	?
HD 70340	BT CMi	HD 65930	HD 94963	AG Car	iot Ara	V1369 Ori	V958 Cen
HD 225095	HD 71072	120 Tau	ACHERNAR	V1372 Ori	PZ Gem	FY Vel	B[e]
HD 89884	V484 Car	V862 Ara	ome CMa	HD 29557	V353 Car	HD 97253	I Pup
V1008 Cen	E Car	HD 90490	BZ Cru	HD 103574	HD 93843	LX Vel	
HD 80459	HR Car	HD 85860	HD 125015	eta Cen	HD 127756	HD 119682	
LV Mus	HD 118094	HD 116875	V946 Cen	kap Lup	mu Lup	kap01 Aps	
HD 84523	HD 131168	V1018 Cen	CV Cir	V774 Cen	CO Cir	HD 124834	
V510 Car	V337 Vel	V967 Cen	CK Cir	CP Cir	HD 119423	HD 101915	
V485 Car	HD 91273	HD 93683	HD 97535	HD 32811	HD 241360	BD+47 1108	
HD 40254	HD 40132	V955 Cen	HD 29096	BD+55 880			

Emission increase since last observations

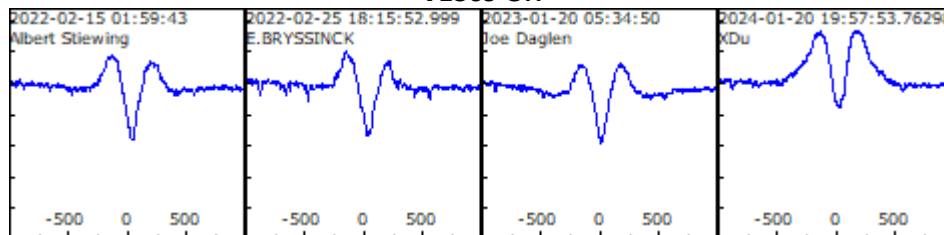
V442 And



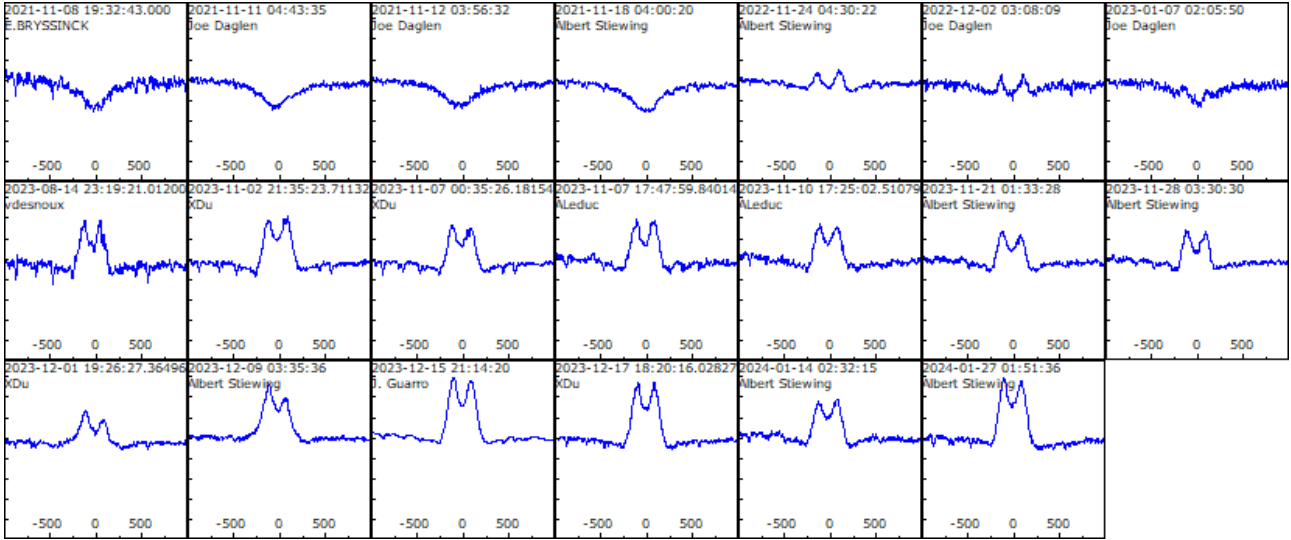
HD 237091



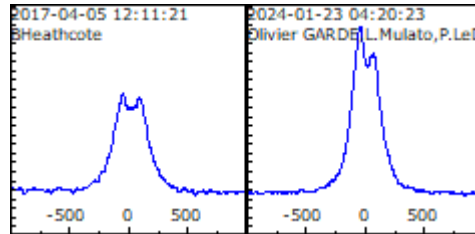
V1369 Ori



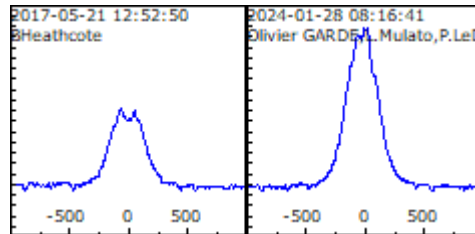
HD 225095



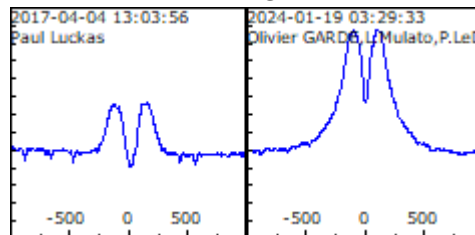
V353 Car



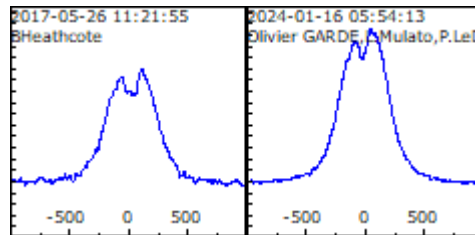
V1008 Cen



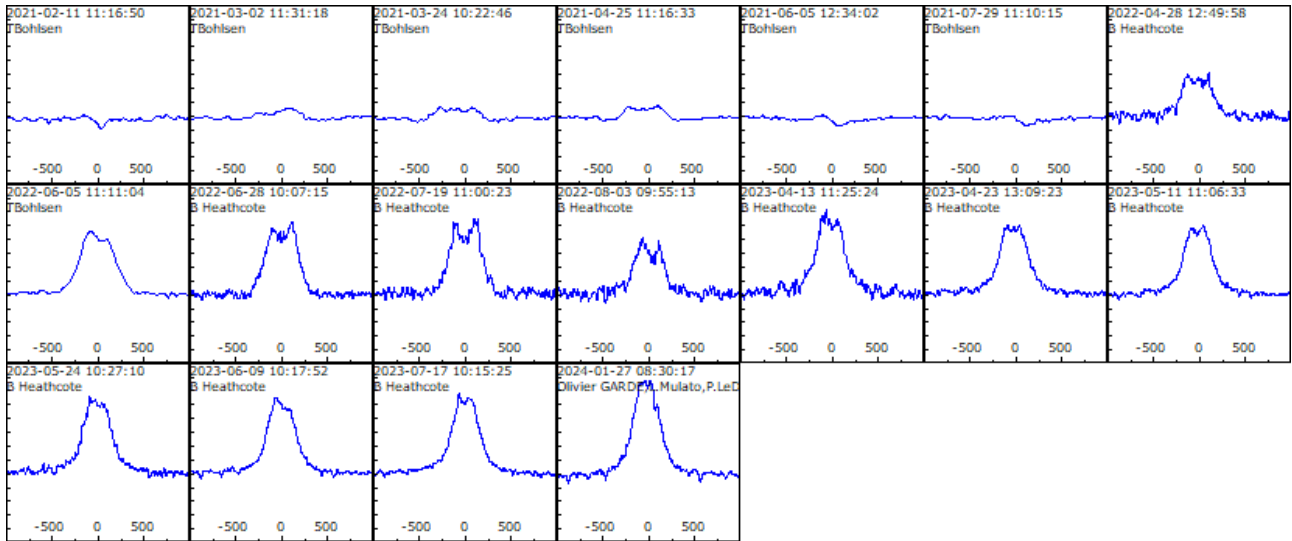
LX Vel



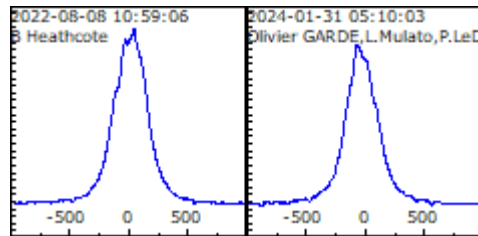
HD 85860



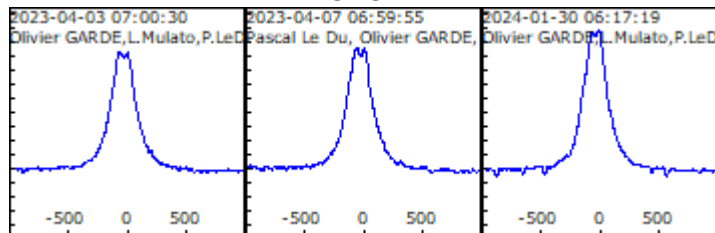
HD 119682



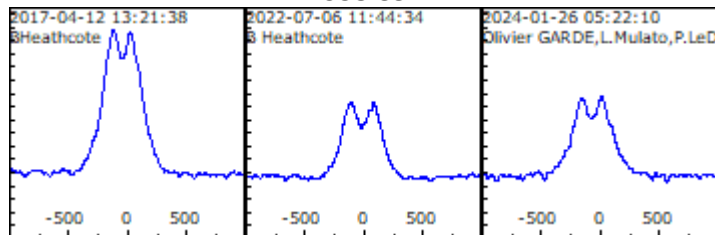
CV Cir



CK Cir

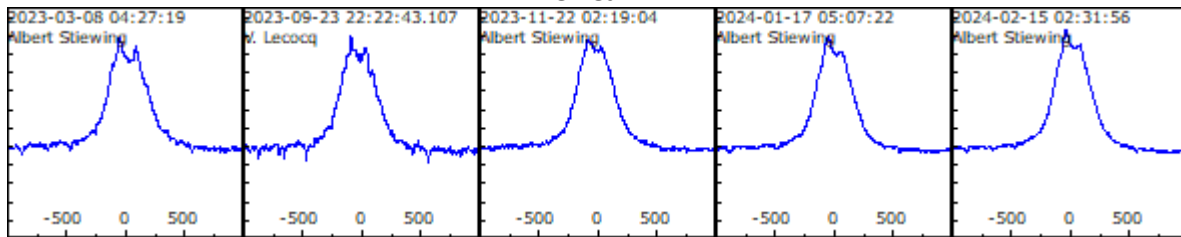


V958 Cen

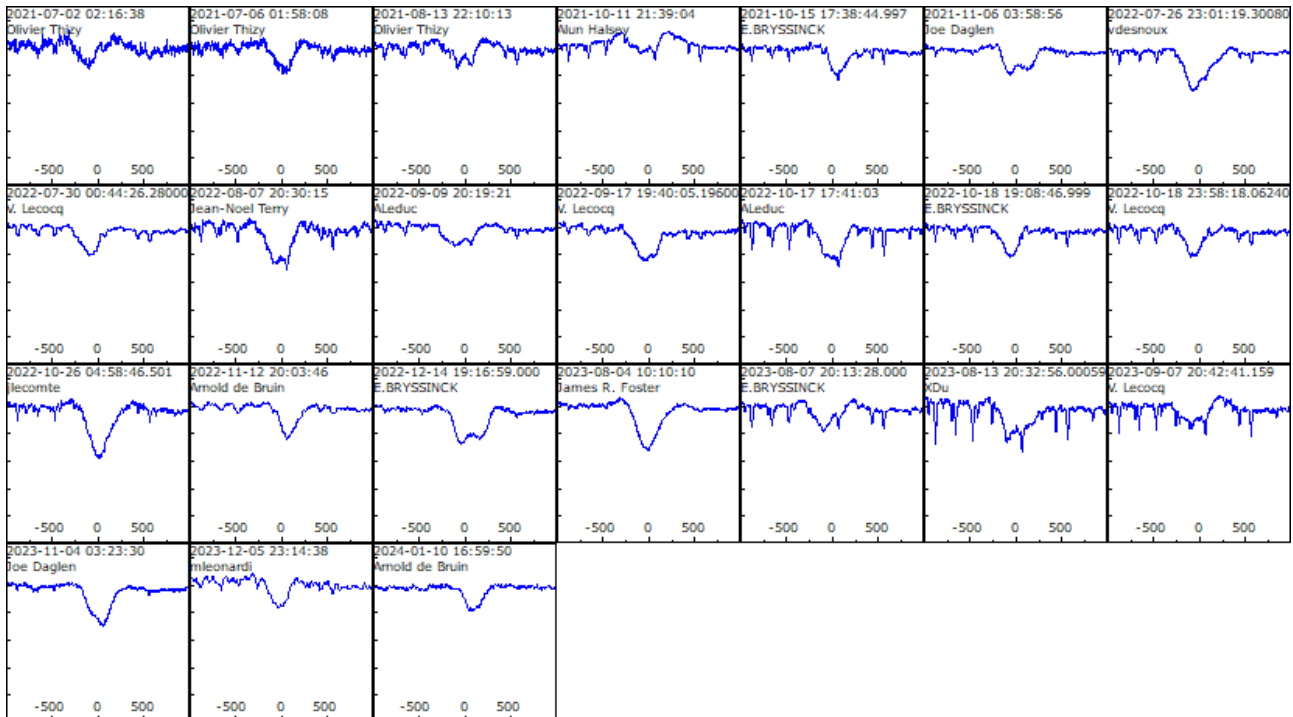


Moderate evolution of H-alpha line

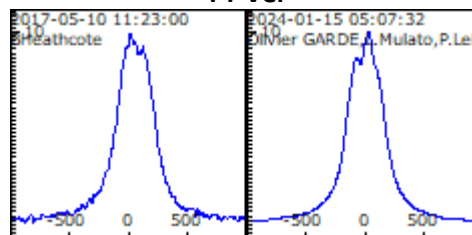
CT Cam



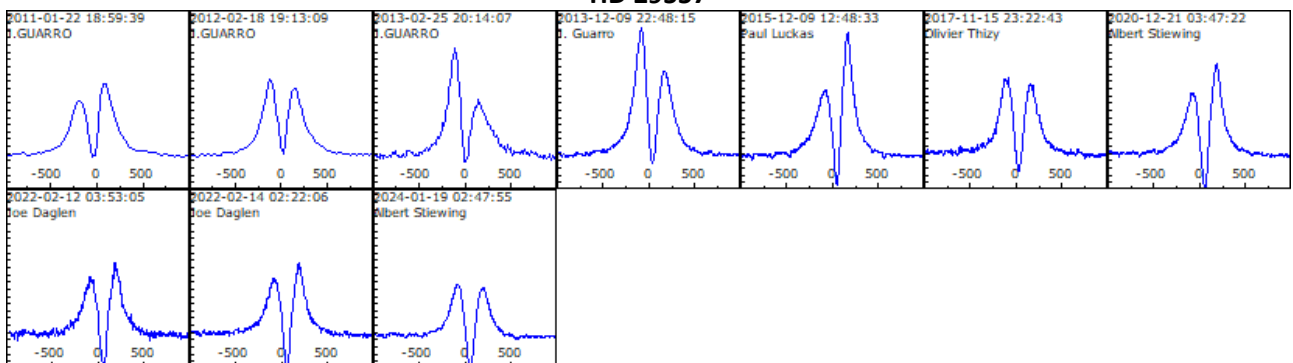
14 Lac



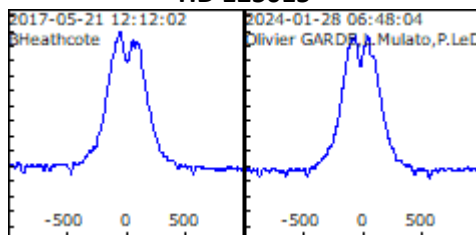
FY Vel



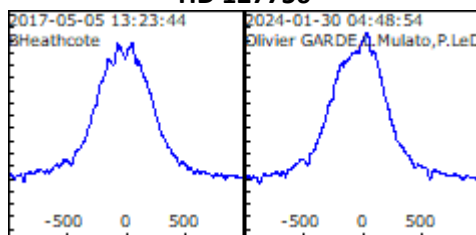
HD 29557



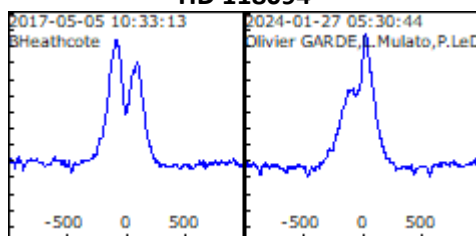
HD 125015



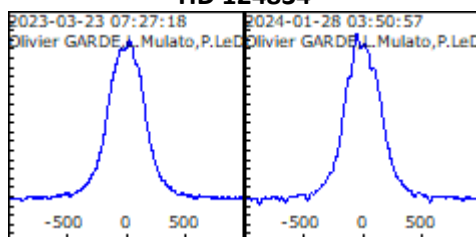
HD 127756



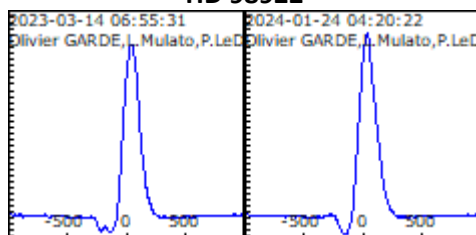
HD 118094



HD 124834

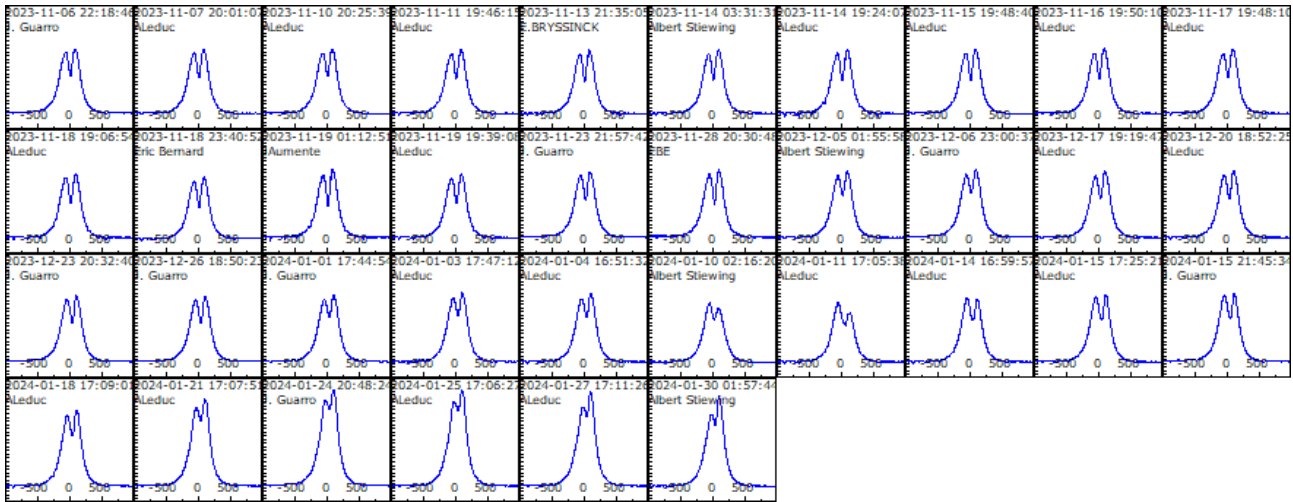


HD 98922

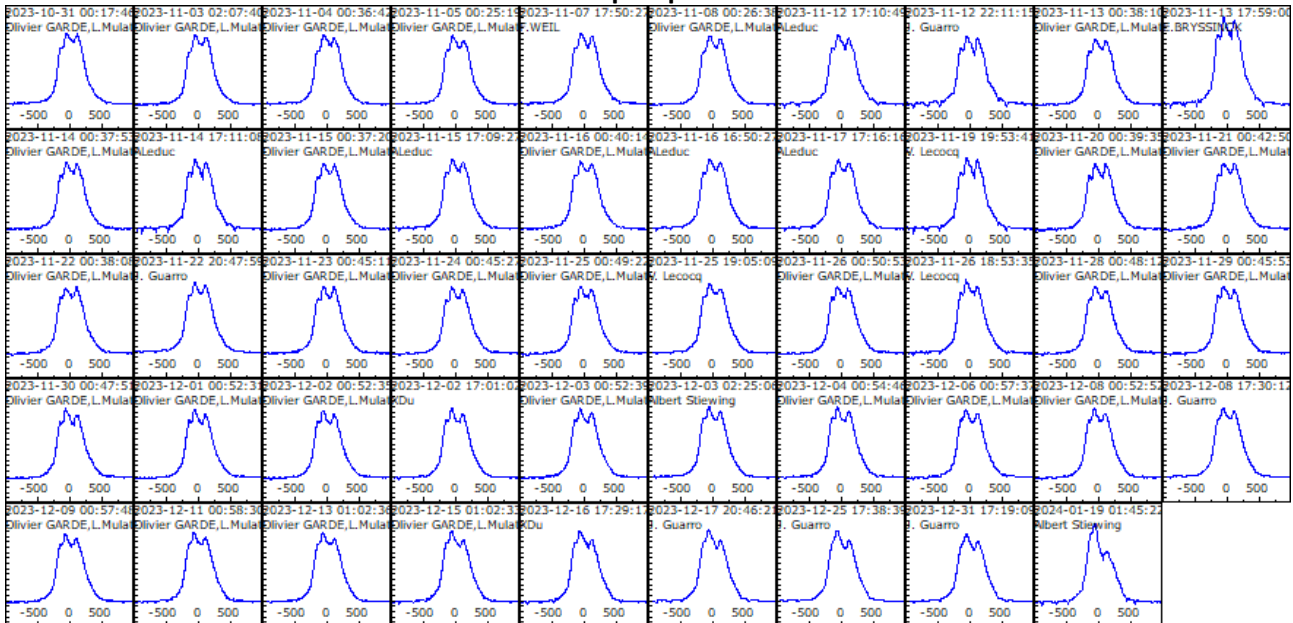


Emission decrease of H-alpha line

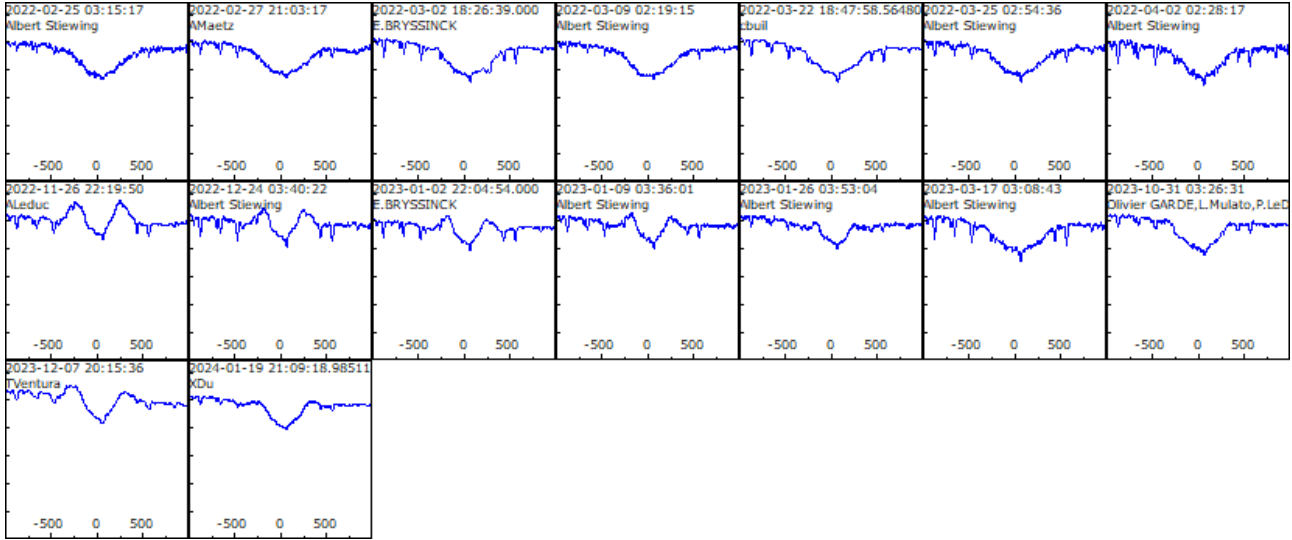
PLEIONE



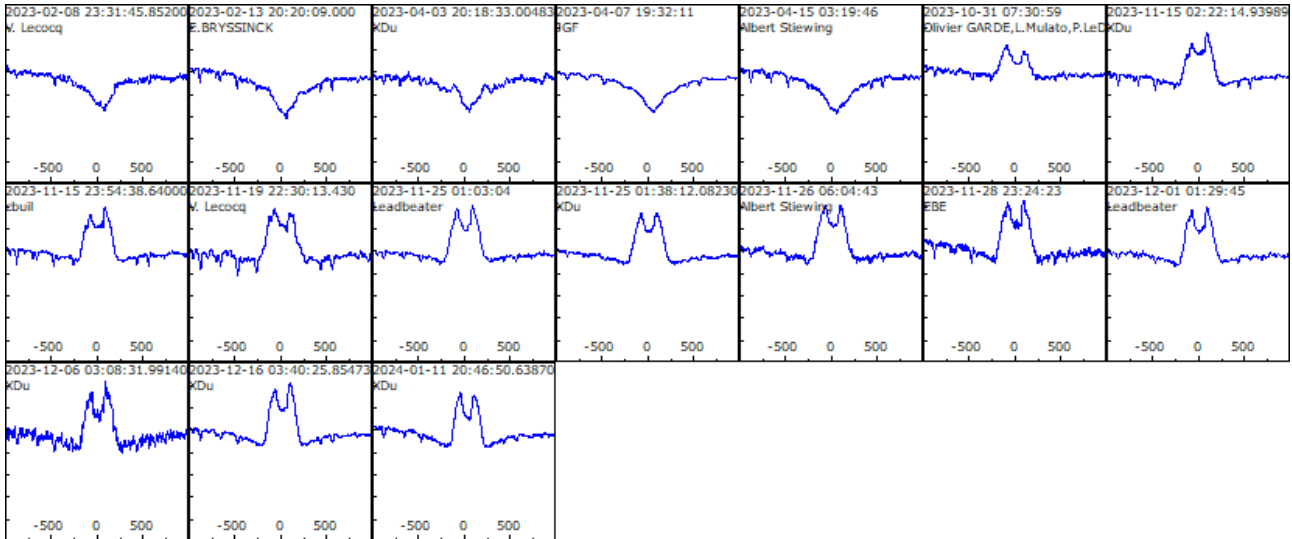
pi Aqr



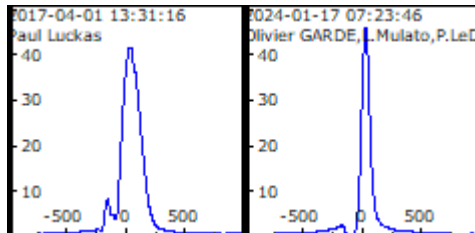
Iam Eri



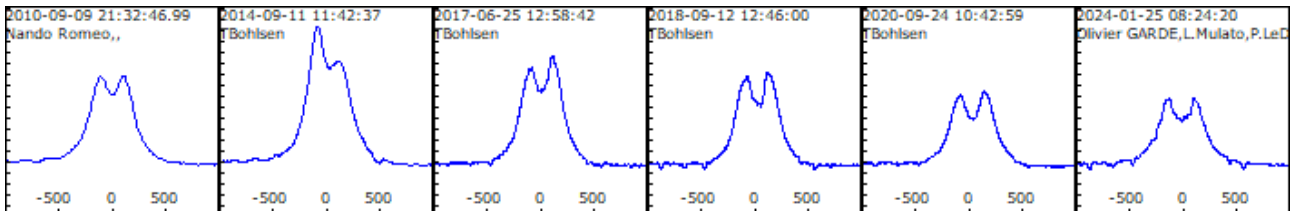
OT Gem



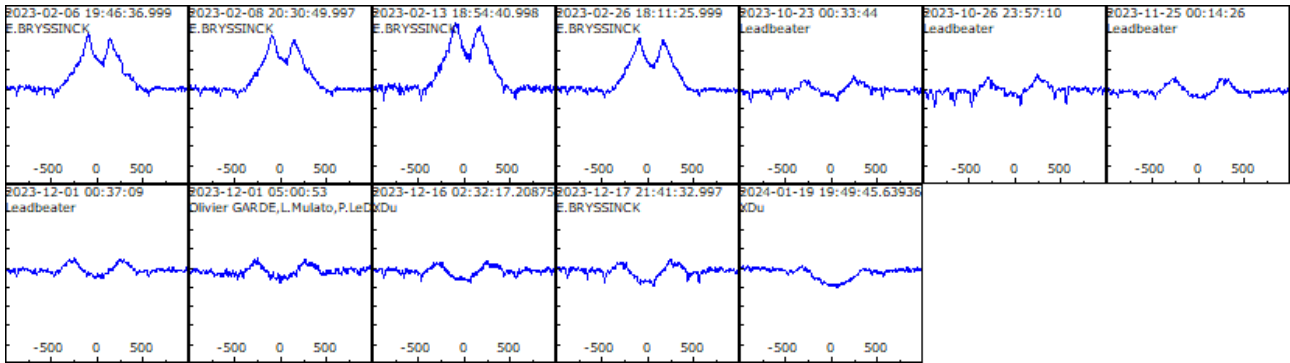
AG Car



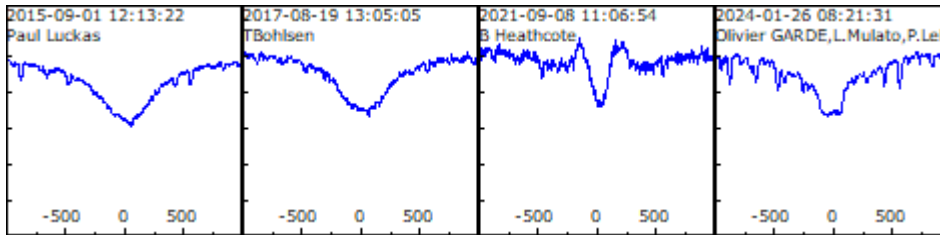
iot Ara



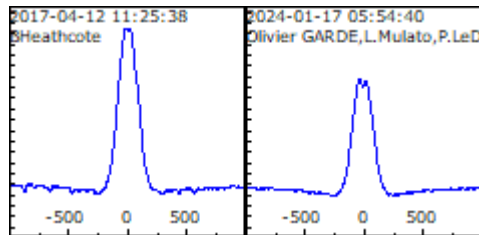
PZ Gem



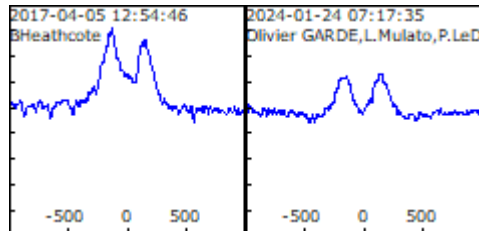
V862 Ara



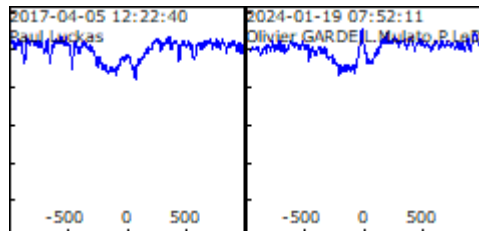
HD 90490



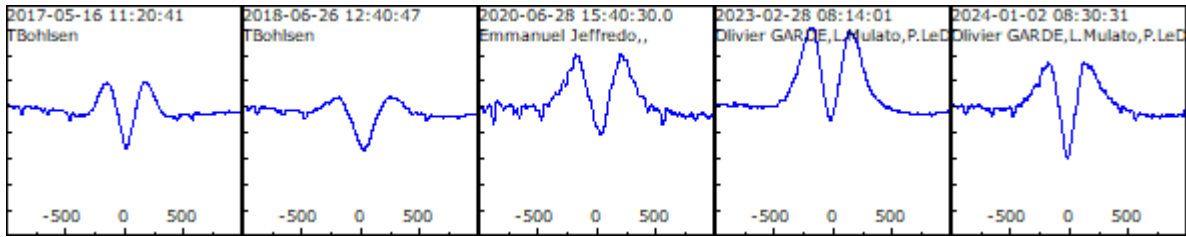
HD 103574



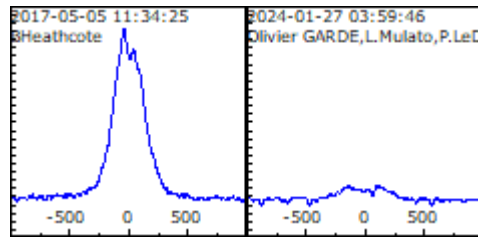
HD 93843



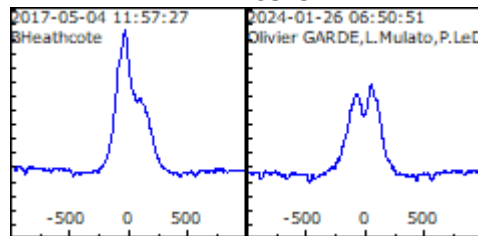
eta Cen



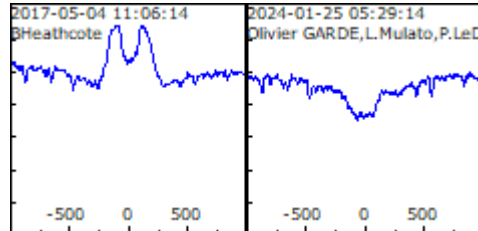
LV Mus



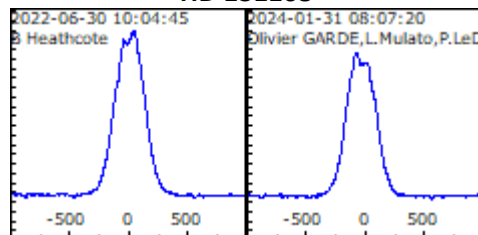
HD 116875



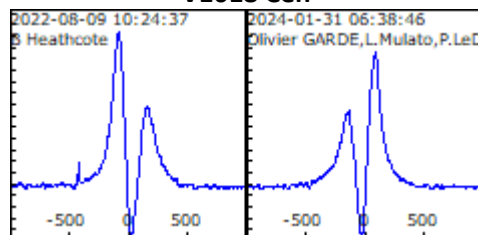
V946 Cen



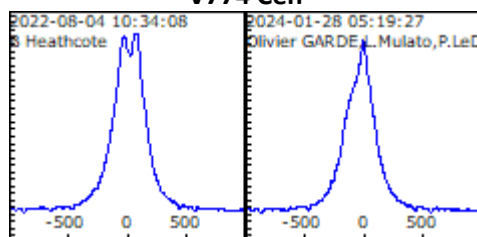
HD 131168



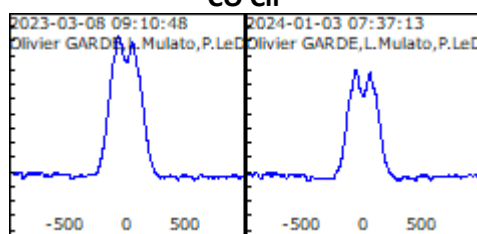
V1018 Cen



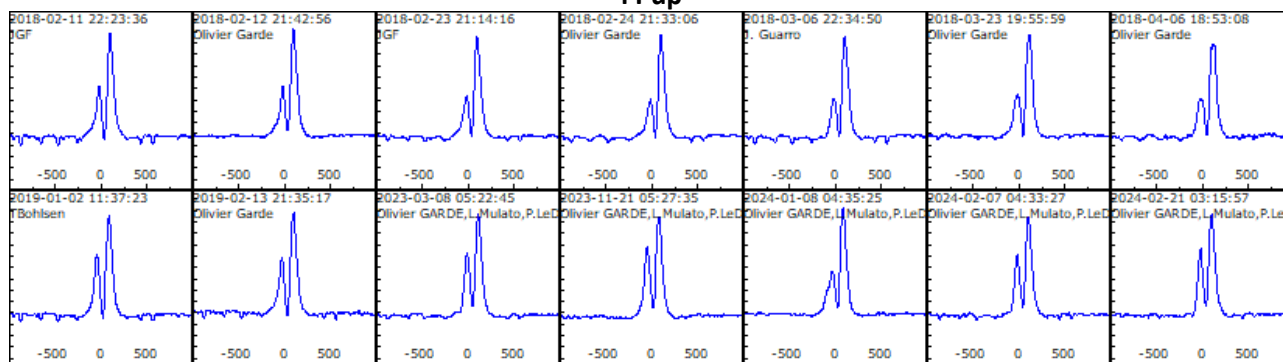
V774 Cen



CO Cir



I Pup



BeSS report Materiel & Method

For each star having a spectrum loaded in BeSS database for the monthly report the last six spectra in BeSS are displayed. A visual check is performed to detect any change in the H-alpha profile. Sometimes a copy/paste is needed for subtle evolutions.

For each star, which exhibits a change, the above series are generated with the following steps. Each spectrum is zoomed on the H-alpha line. Each profile is scaled on the continuum in the area of 6580 angströms. The x-axis is converted into Doppler velocity centered on H-alpha.

If too many spectra of the object are available, only a shorter period of observation is displayed.

All data are processed with Visual Spec with dedicated function to automatically load BeSS spectra and automatize most of the above processing and report images generation.

To be noted: Shelyak, as a complex variable star is excluded from the study.

Author

Valérie Desnoux

Valerie.desnoux@free.fr

BeSS database at <http://basebe.obspm.fr/basebe/>

BeSS monthly report repository at <http://valerie.desnoux.free.fr/BeSS/>

ArasBeAM portal for Be Stars observations status at <http://arasbeam.free.fr/>