



BeSS report – October 2024

H-alpha monitoring

Data compiled by
Valérie Desnoux

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

83

Stars

149

Spectra

12

Observers

Observateur	Nb spec
Charbonnel Le Dû GARDE Mulato Petit	84
bertrand	20
Leadbeater	13
Bryssinck	10
Dupont	7
de Bruin	4
Graham	4
Guarro Fló	2
DUBREUIL	2
Lachapelle	1
Foschino GERMOND	1
Foschino	1

Events of the month...

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

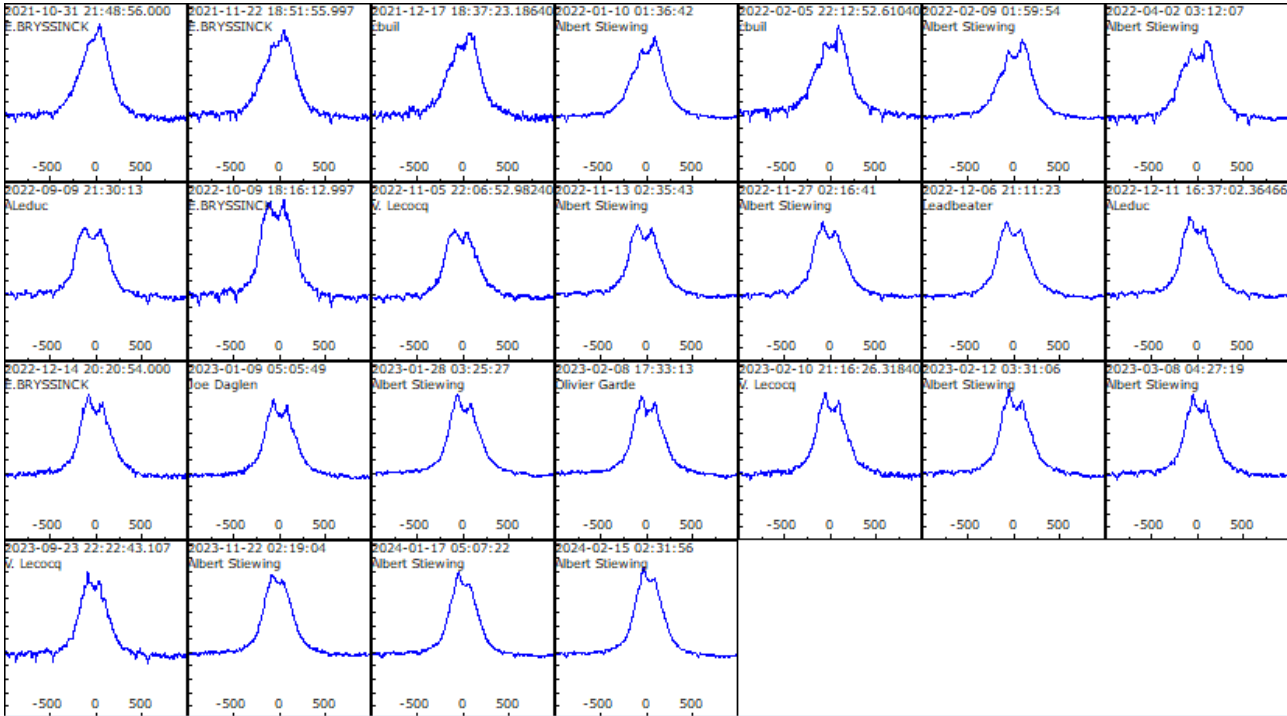
EE	ME	DE
CT Cam	Menkhib	V442 And
QR Vul	omi Pup	PLEIONE
iot Lyr	HD 37115	V473 Per
HD 232552	HD 69168	HD 38856
FY CMa		kap CMa
V715 Mon		NV Pup
27 CMa		V392 Pup
HD 57682		HP CMa
HD 46131		HD 37357
NO CMa		
HZ CMa		
HD 37806		

Objects observed

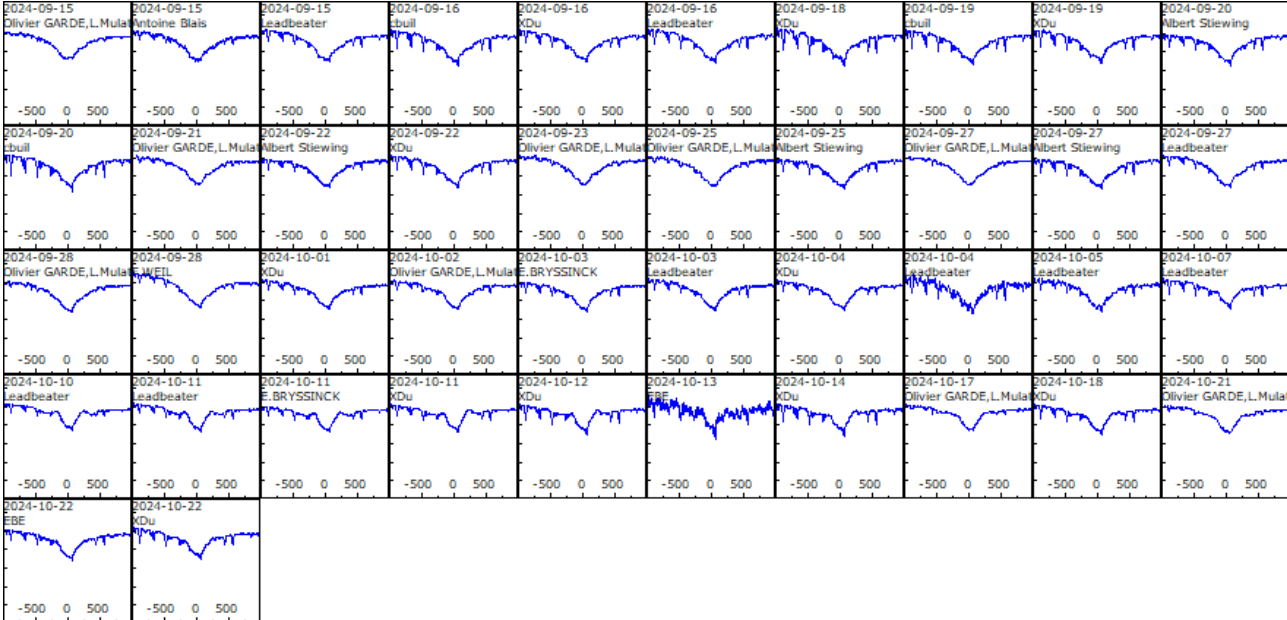
Classique							Herbig
V442 And	PLEIONE	pi Aqr	V357 Lac	CT Cam	ELECTRA	gam Cas	HD 37806
25 Cyg	ALFIRK	MEROPE	V764 Cas	48 Per	Menkhib	V473 Per	HD 176386
QR Vul	omi And	phi And	psi Per	ALCYONE	omi Pup	SHELIAC	HD 37357
EW Lac	bet CMi	HD 163007	V750 Ara	omi Cas	HD 171780	12 Vul	HD 169142
V2119 Cyg	HD 179343	iot Lyr	6 Cep	HD 232552	5 Cnc	FY CMa	B[e]
64 Ser	omi Aqr	HD 153879	HD 199218	HD 50820	HD 225095	BD+60 114	I Pup
HD 37115	V1372 Ori	V715 Mon	V378 Pup	HD 38856	HD 69168	HD 68423	
V743 Mon	V374 Car	HD 71510	HD 75485	FS CMa	ome CMa	27 CMa	
kap CMa	HD 57682	V830 Ara	NW Pup	NV Pup	r Pup	HD 46131	
PQ Pup	V392 Pup	V468 Pup	NO CMa	HD 49319	HD 69404	HP CMa	
		TYC 4306-1125-					
HZ CMa	HD 155438	1	HD 161705	HD 162568	HD 150930	CI* NGC 129 LF 44	
HD 159489							

Emission increase since last observations

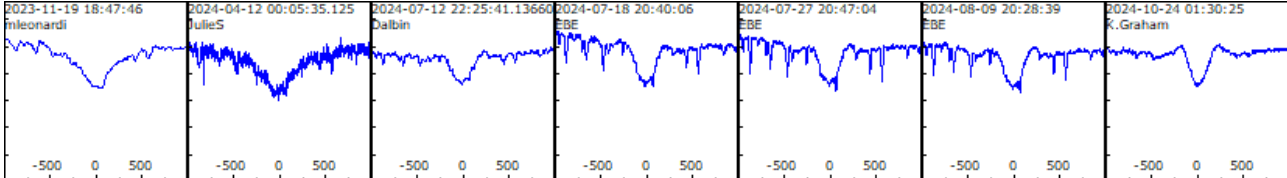
CT Cam



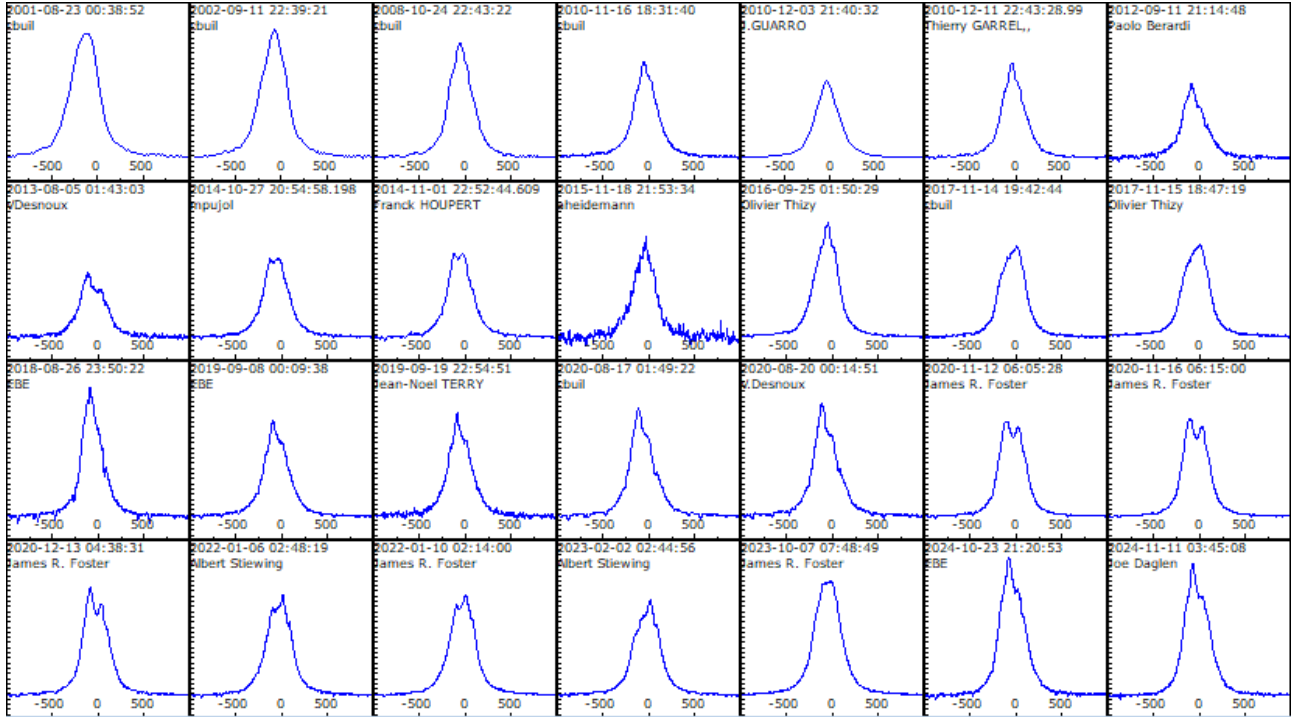
QR Vul



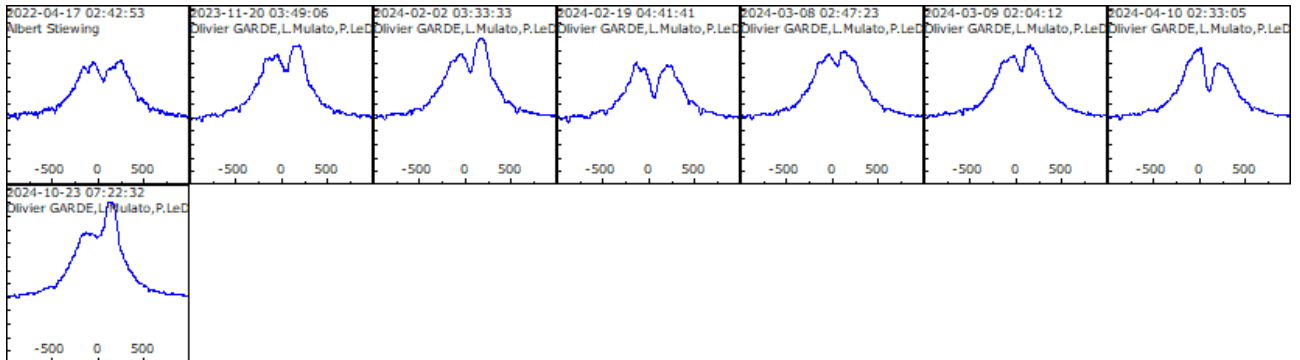
iot Lyr



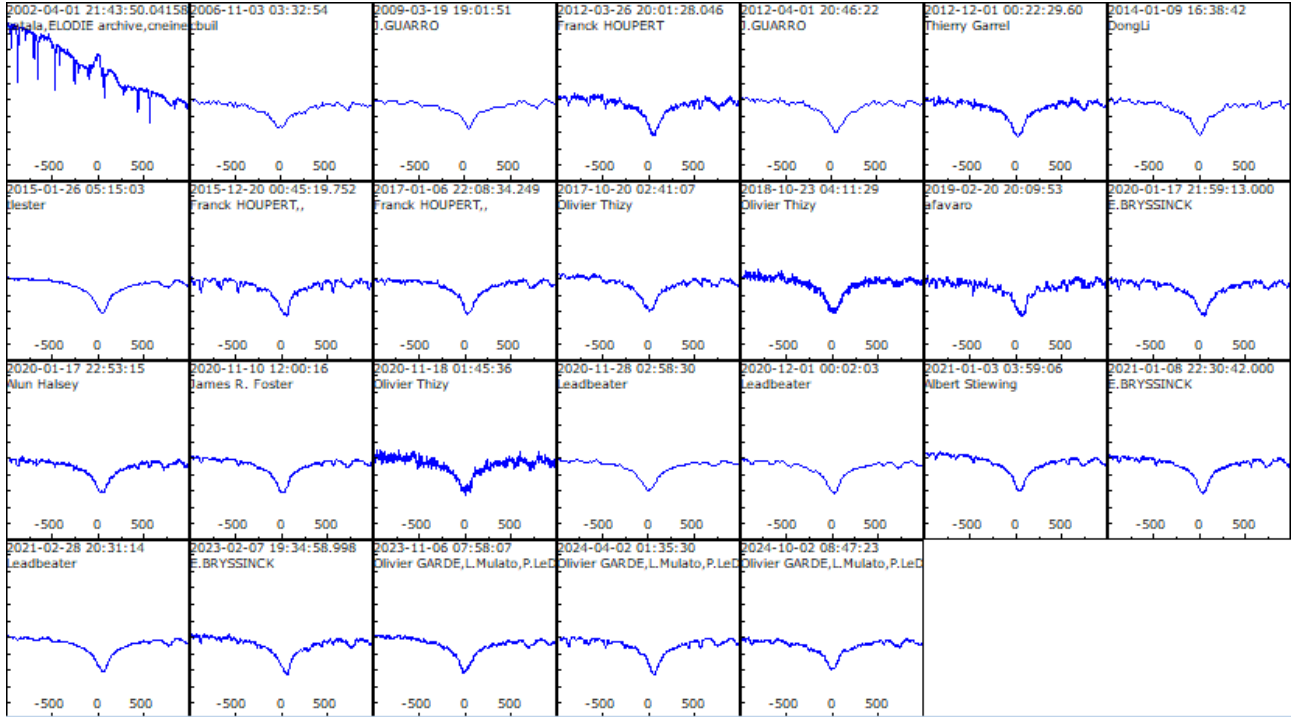
HD 232552



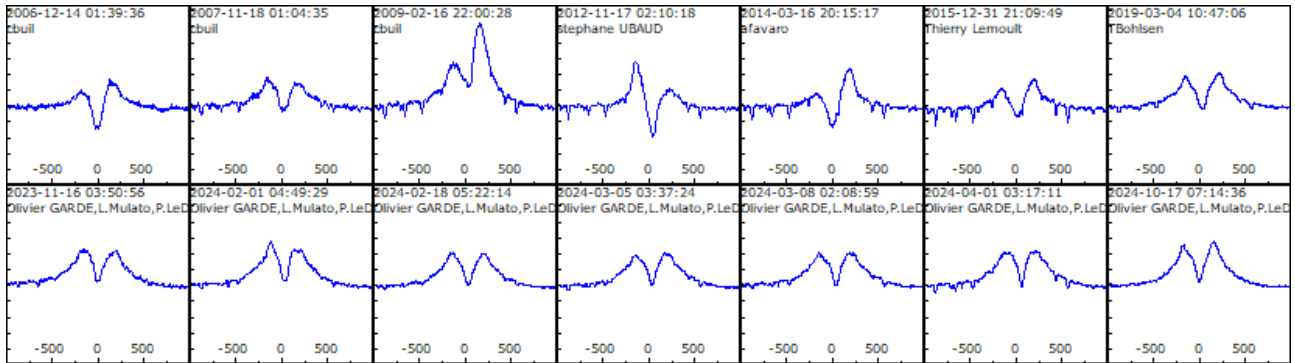
FY CMa



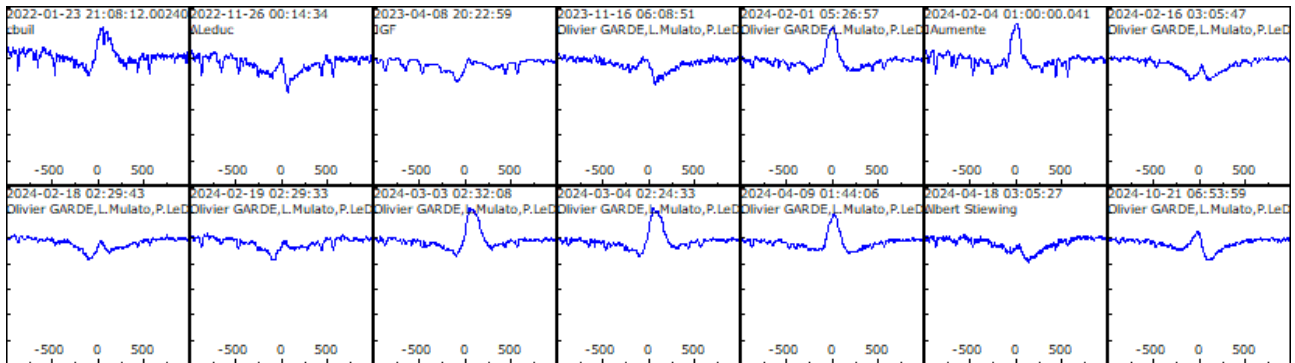
V715 Mon



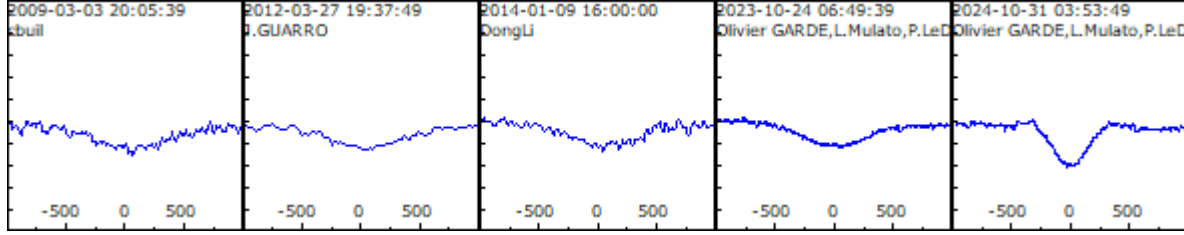
27 CMa



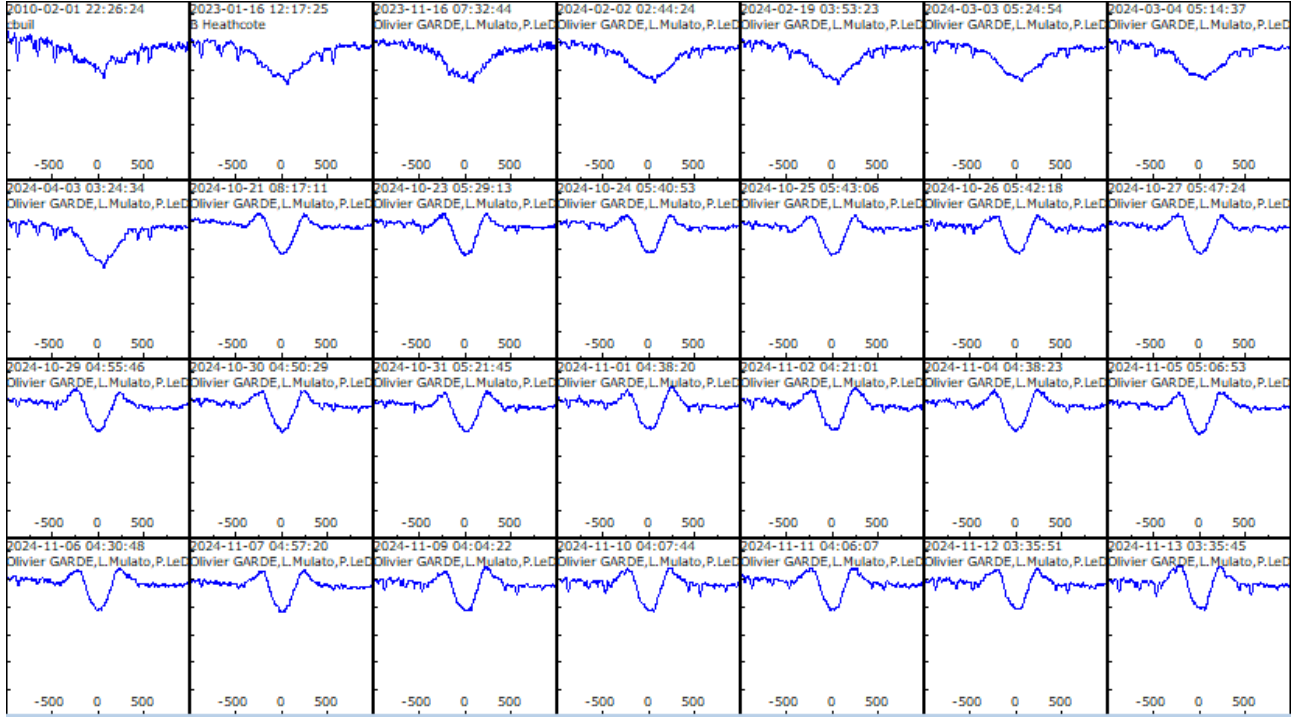
HD 57682



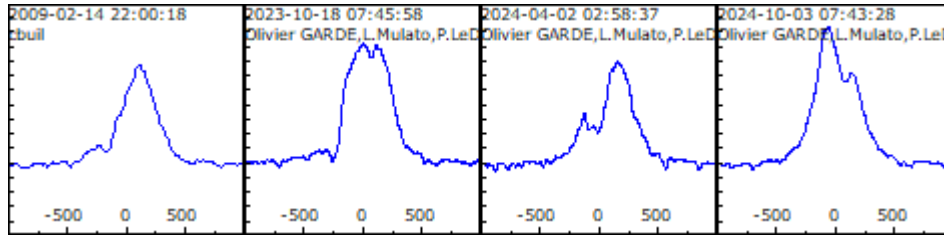
HD 46131



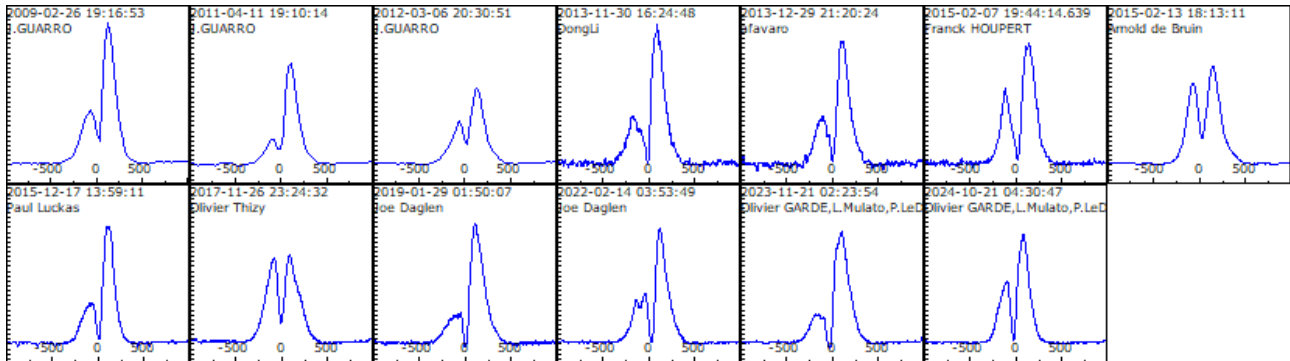
NO CMa



HZ CMa

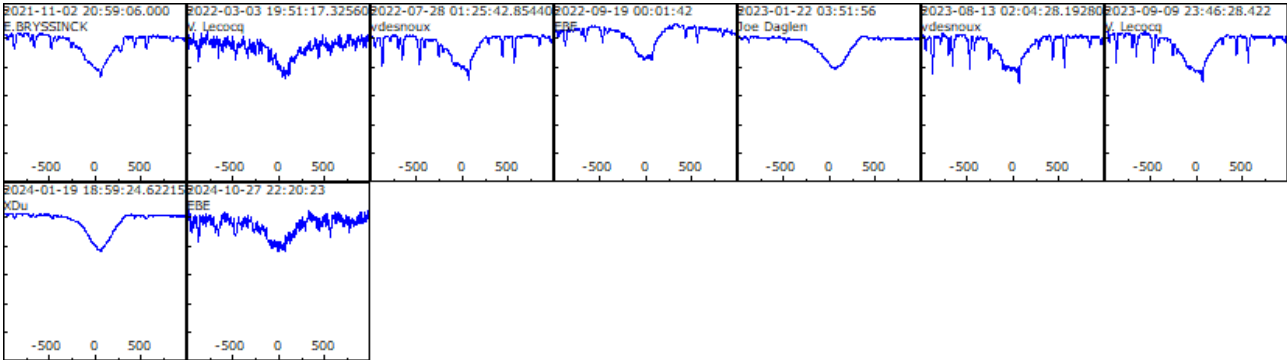


HD 37806

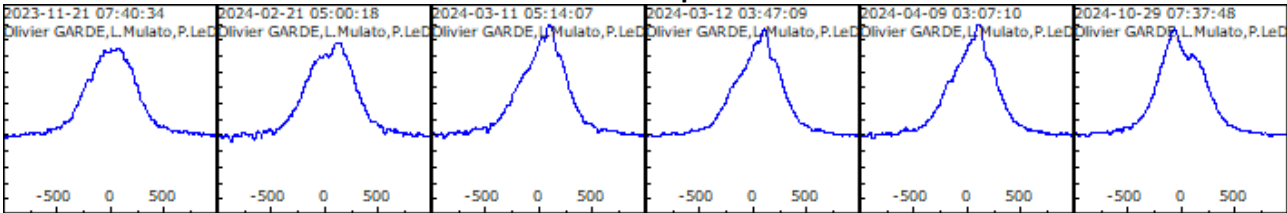


Moderate evolution of H-alpha line

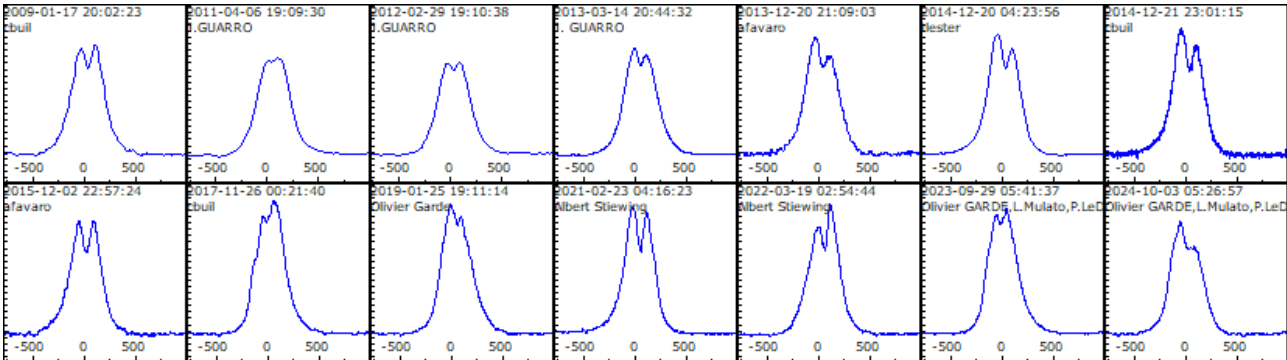
Menkhib



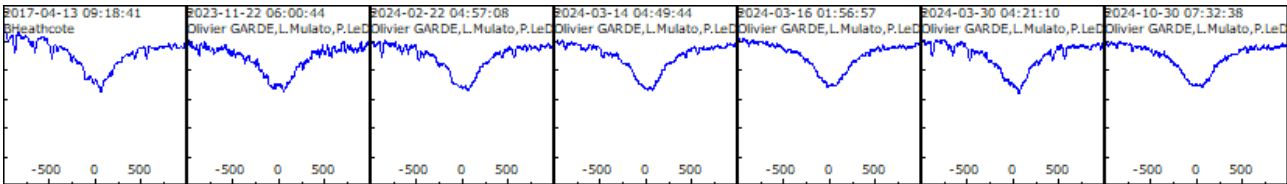
omi Pup



HD 37115

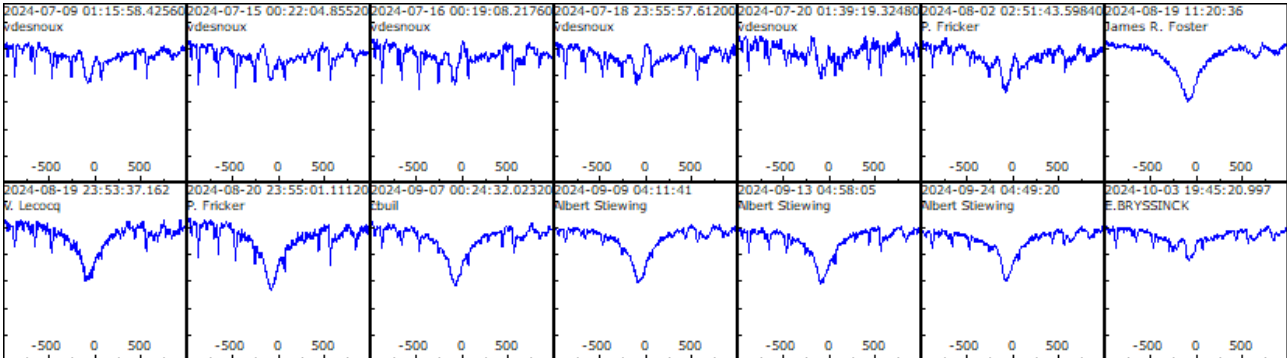


HD 69168

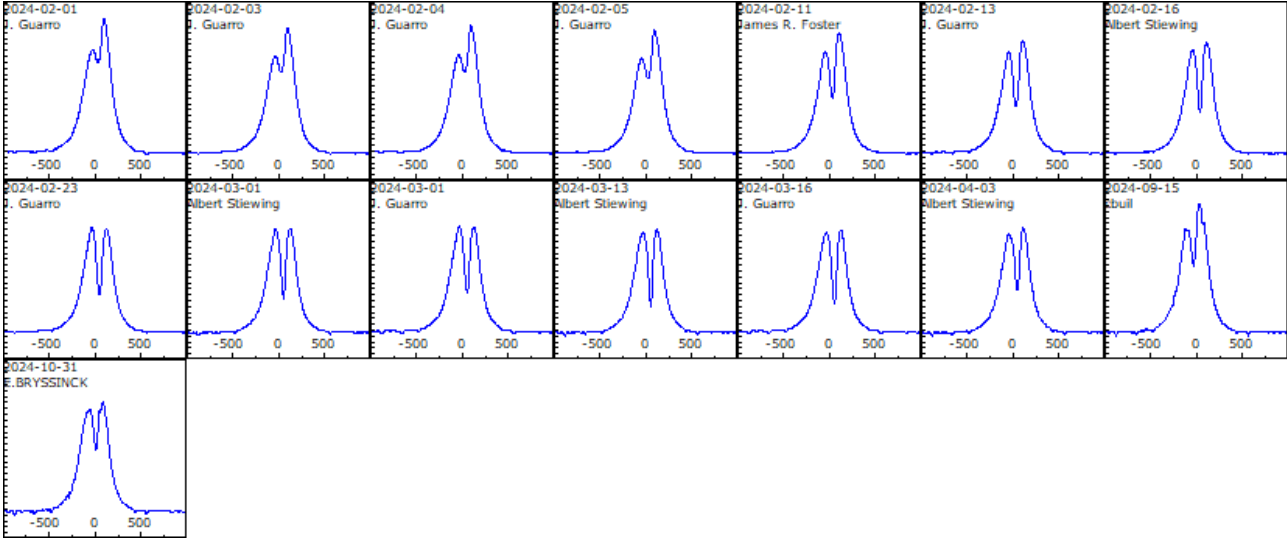


Emission decrease of H-alpha line

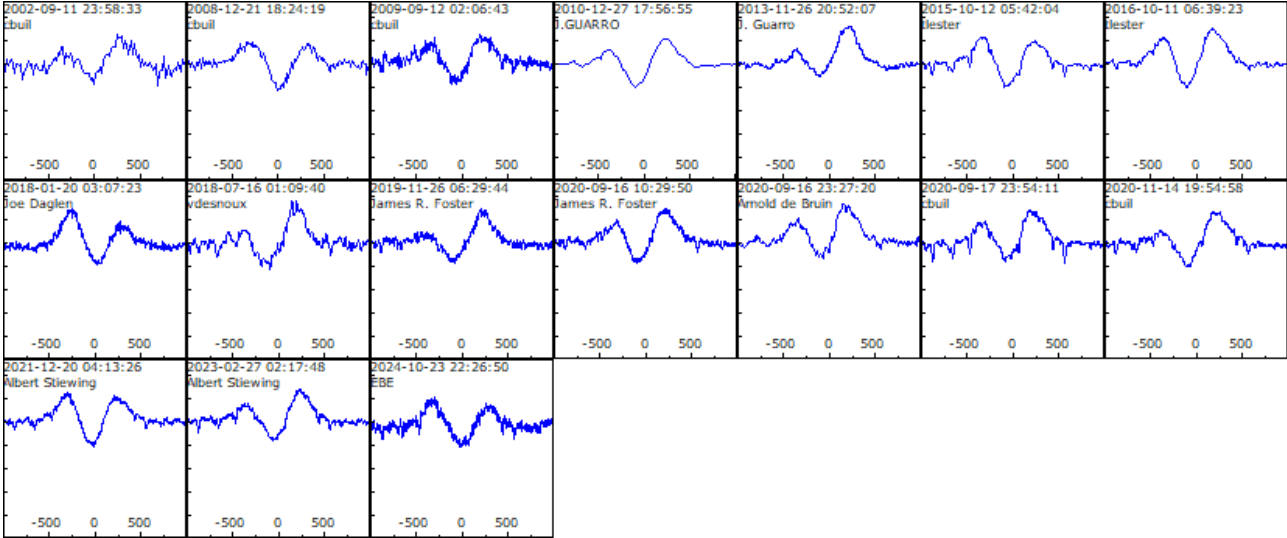
V442 And



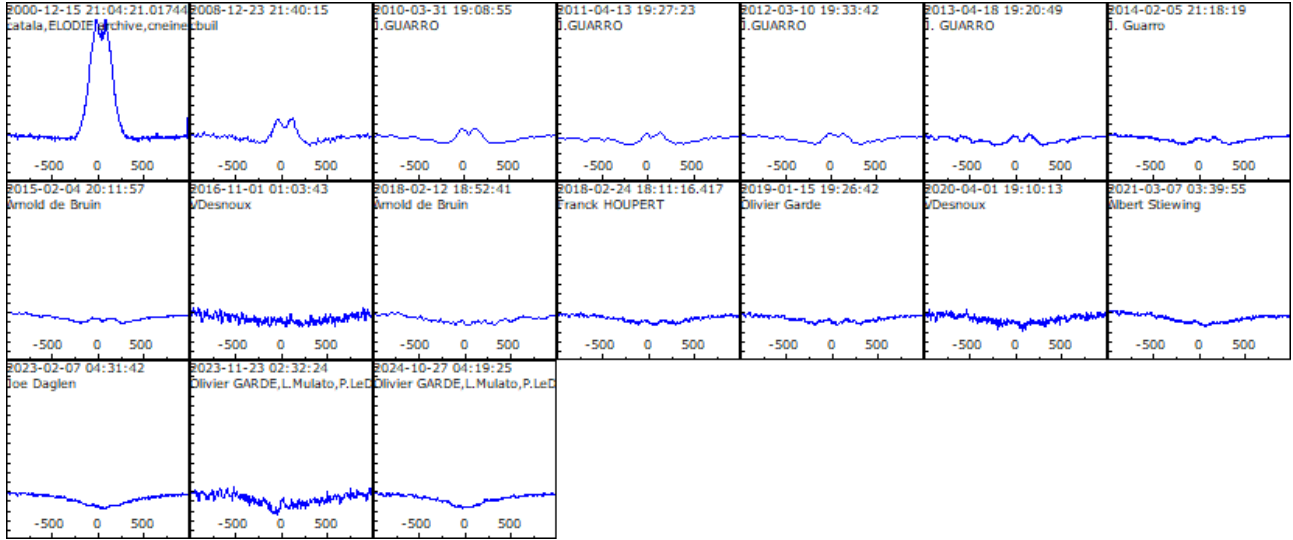
PLEIONE



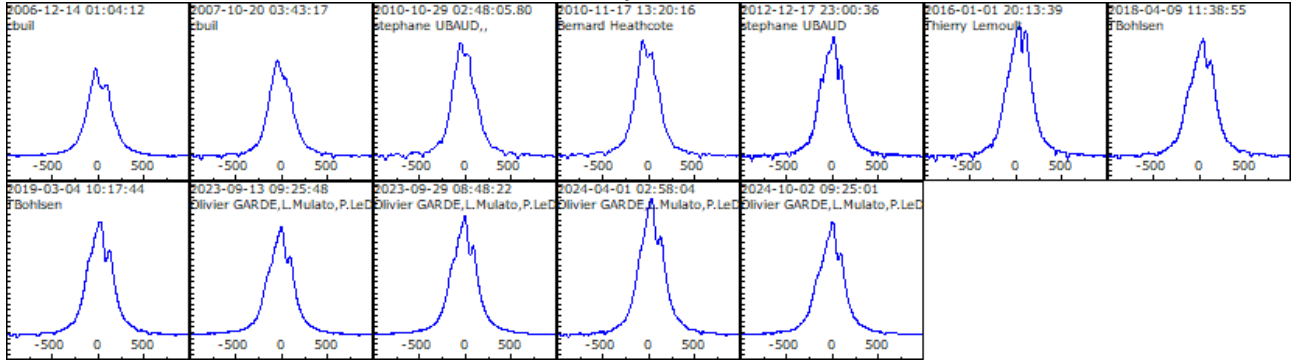
V473 Per



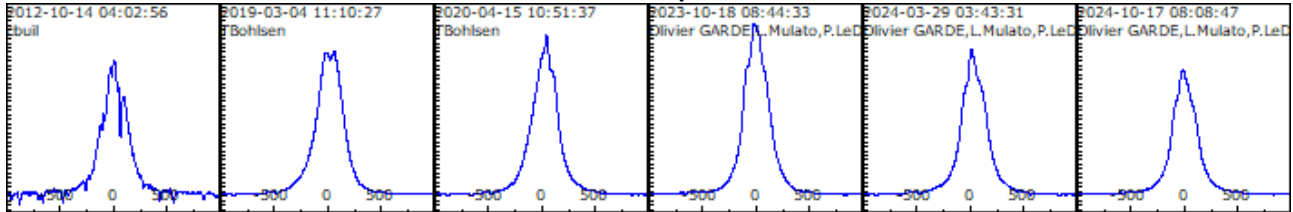
HD 38856



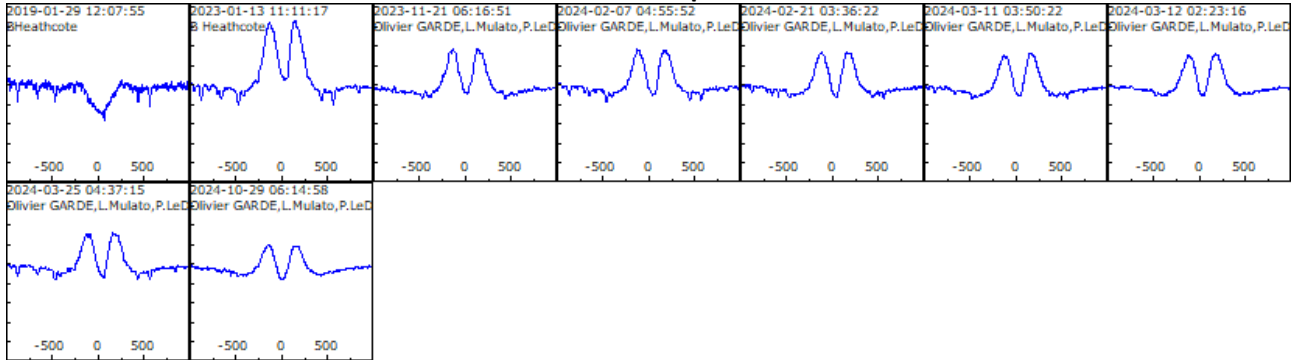
kap CMA

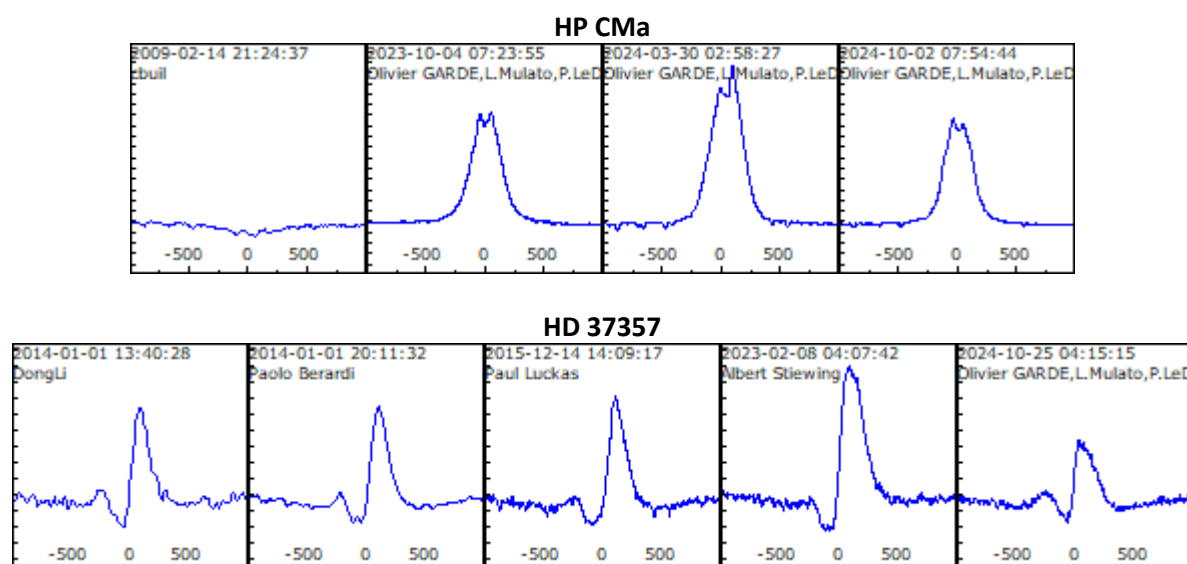


NV Pup



V392 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

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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/>