



BeSS report – August 2024

H-alpha monitoring

Data compiled by
Valérie Desnoux

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

104

Stars

240

Spectra

18

Observers

Observateur	Nb spec
Leadbeater	45
Charbonnel Le Dû GARDE Mulato Petit	40
bertrand	30
Lecocq	23
TERRY	23
Dupont	16
Stiewing	15
James	9
Fricker	8
Blais	8
SANTAIS	7
Bryssinck	6
Broussat	3
AUMENTE LEON	2
de Bruin	2
LOUIS	1
FAVERDIN	1
Matthieu	1

Events of the month...

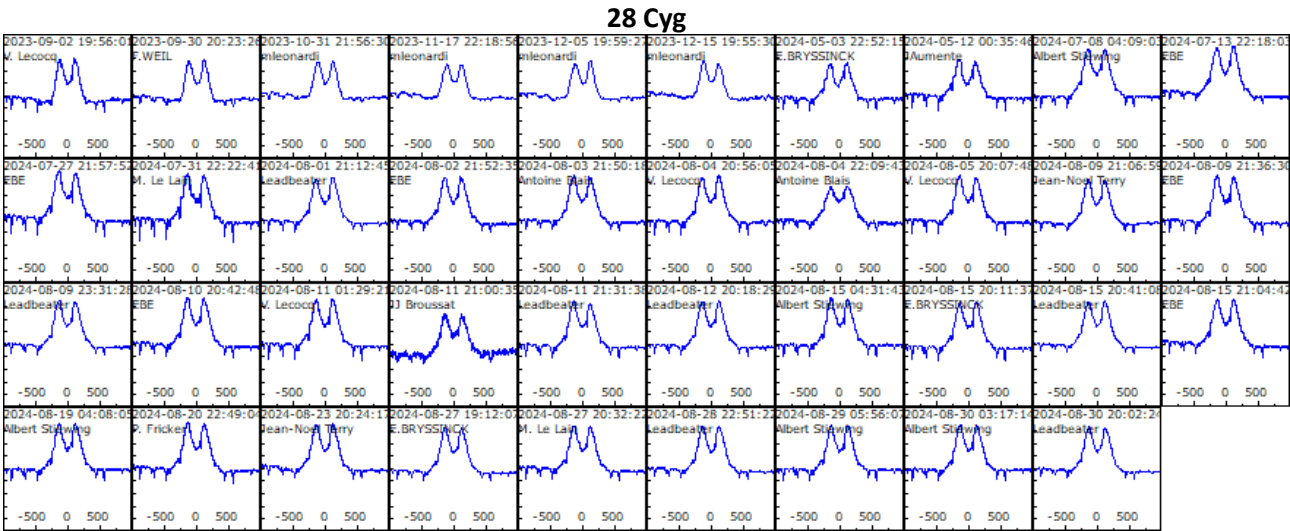
EE: Emission Event, ME: Moderate Events, DE: Decreasing Event

EE	ME	DE
gam Cas	14 Lac	V442 And
28 Cyg	228 Eri	pi Aqr
phi Per	V1362 Cyg	V742 Cas
HD 206773	V423 Lac	CW Cep
18 And	V4379 Sgr	QR Vul
HD 162428	V743 Mon	lam Cyg
59 Cyg		V923 Aql
HD 171780		EW Lac
eps Cap		60 Cyg
iot Lyr		V817 Cas
V777 Cas		HD 169805
V415 Lac		CO Cir
eta PsA		V380 Cep
HD 225095		
EM Cep		
lam Pav		
UU PsA		
kap01 Aps		
V4031 Sgr		

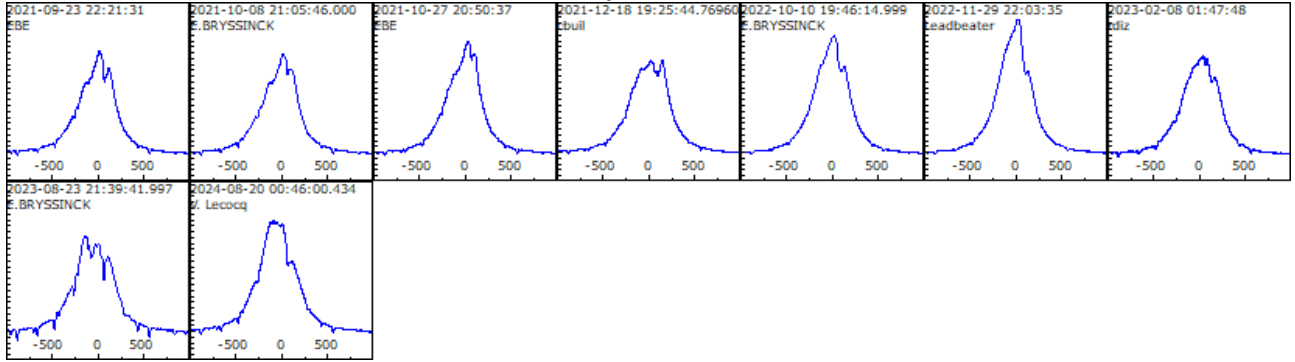
Objects observed

Classique							Herbig
V442 And	pi Aqr	V357 Lac	gam Cas	28 Cyg	25 Cyg	13 Tau	V380 Cep
bet Psc	phi Per	HD 206773	18 And	ALFIRK	14 Lac	BK Cam	?
31 Peg	V764 Cas	V742 Cas	CW Cep	2 Cet	228 Eri	QR Vul	BD+41 3731
lam Cyg	phi And	V1362 Cyg	V923 Aql	HD 193182	EW Lac	HD 9709	B[e]
HD 196712	V423 Lac	QV Tel	HD 162428	56 Eri	HD 194779	V2148 Cyg	EM* MWC 349
HD 175511	omi Cas	del Sco	60 Cyg	59 Cyg	HD 171780	11 Cyg	I Pup
12 Vul	V2119 Cyg	eps Cap	iot Lyr	16 Peg	HD 18552	V777 Cas	
6 Cep	V4379 Sgr	V415 Lac	V974 Her	HD 198931	eta PsA	omi Aqr	
V2139 Cyg	HD 9612	V2163 Cyg	HD 225095	V817 Cas	EM Cep	BD+44 3594	
ACHERNAR	eps Tuc	V743 Mon	eps PsA	HD 174886	bet Scl	lam Pav	
V862 Ara	UU PsA	FS CMa	V3508 Sgr	V450 Cep	eps Aps	kap01 Aps	
V2188 Cyg	HD 177015	HD 169805	V4031 Sgr	EM* AS 53	DR Cha	HD 109857	
CO Cir	HD 124639	HD 345339	HD 186485	HD 219523	HD 240249	HD 215837	
HD 183035	LS III +53 23	EM* GGA 90	BD+66 64	CI* NGC 654 STO 104	BD+44 3475	HD 201036	
CI* NGC 663 SAN 20	HD 345506						

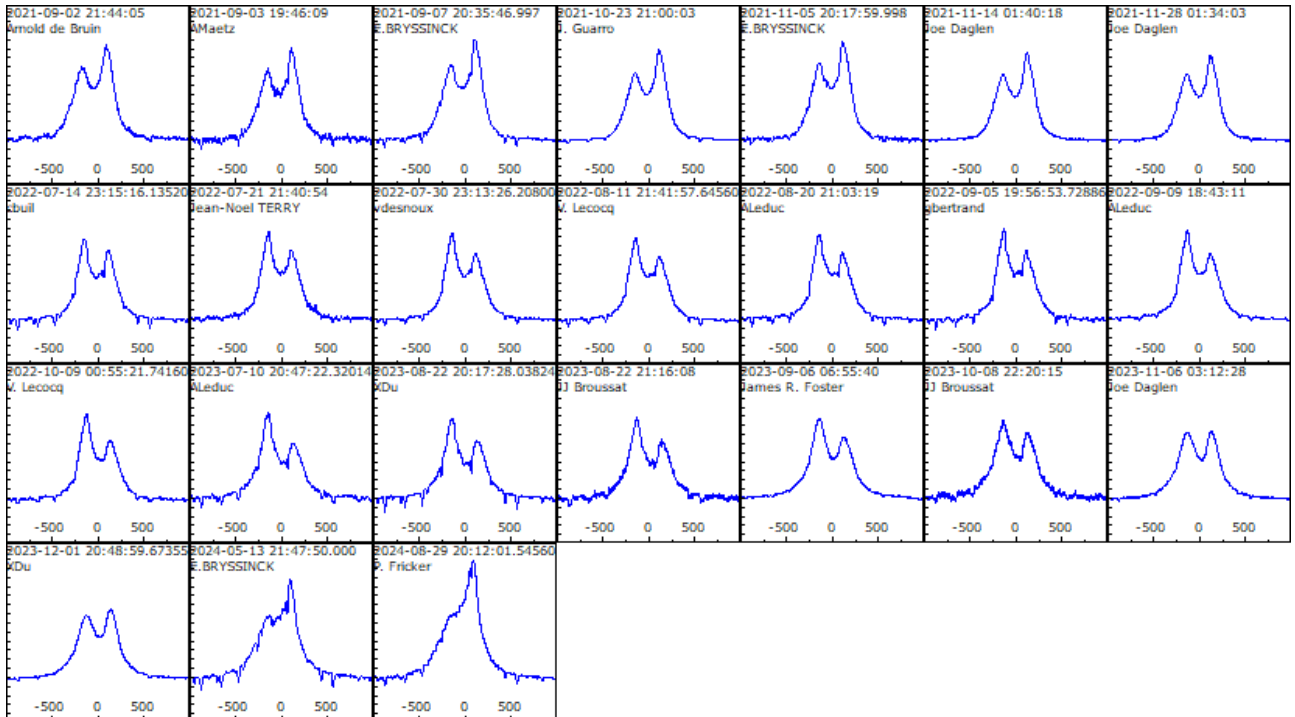
Emission increase since last observations



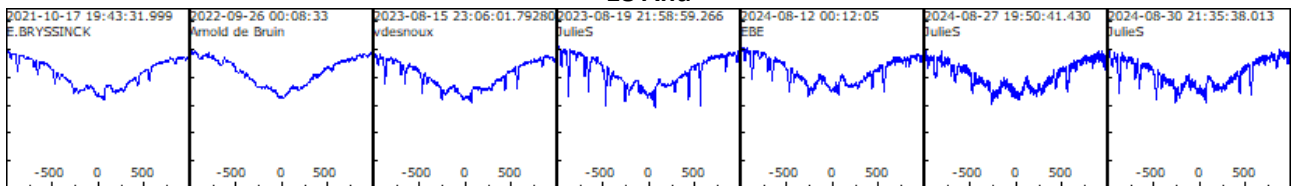
phi Per



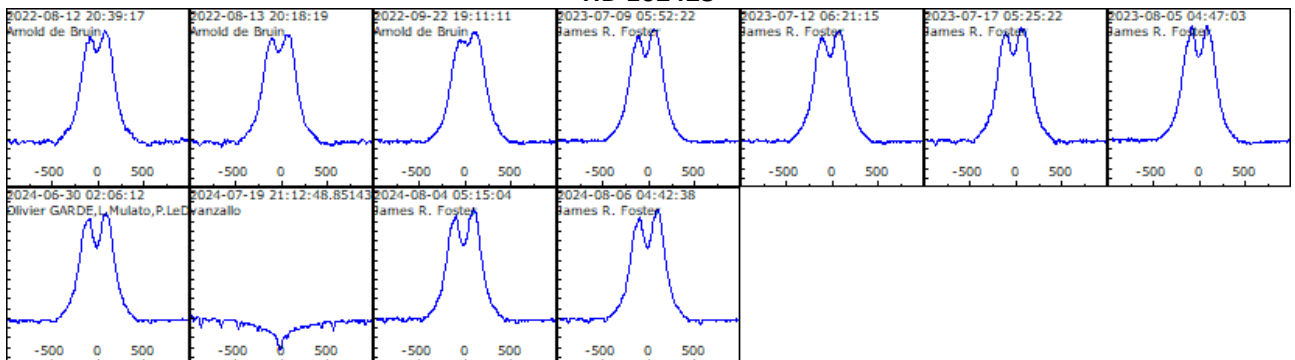
HD 206773



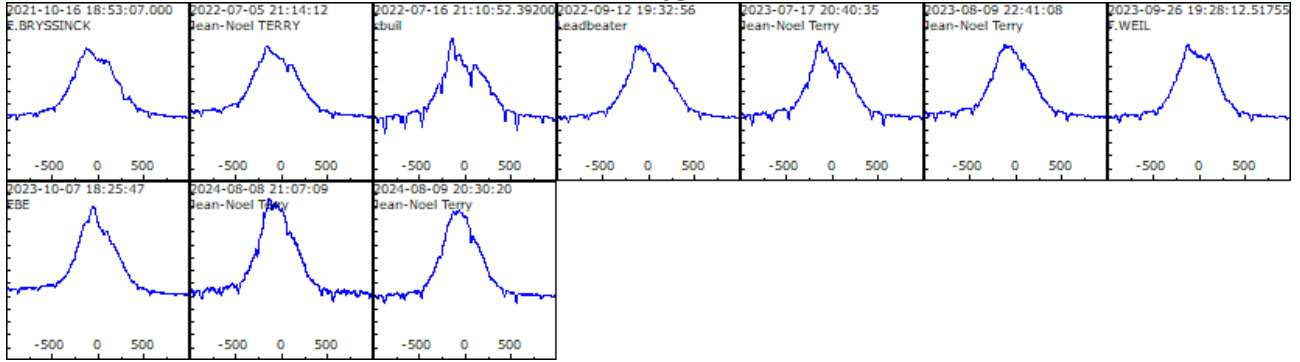
18 And



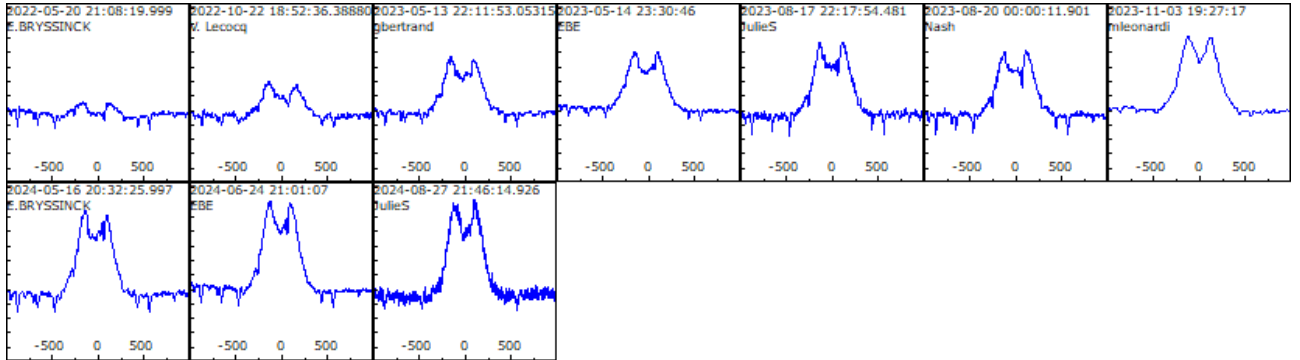
HD 162428



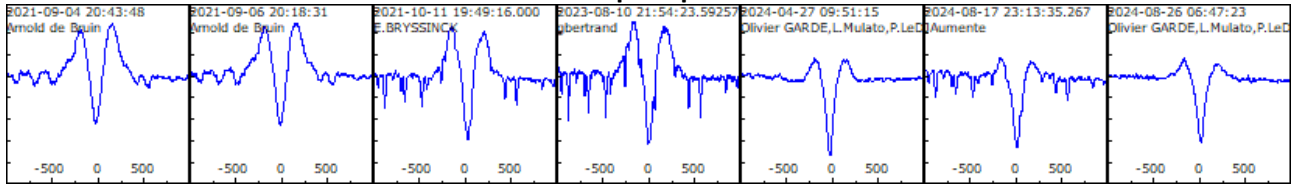
59 Cyg



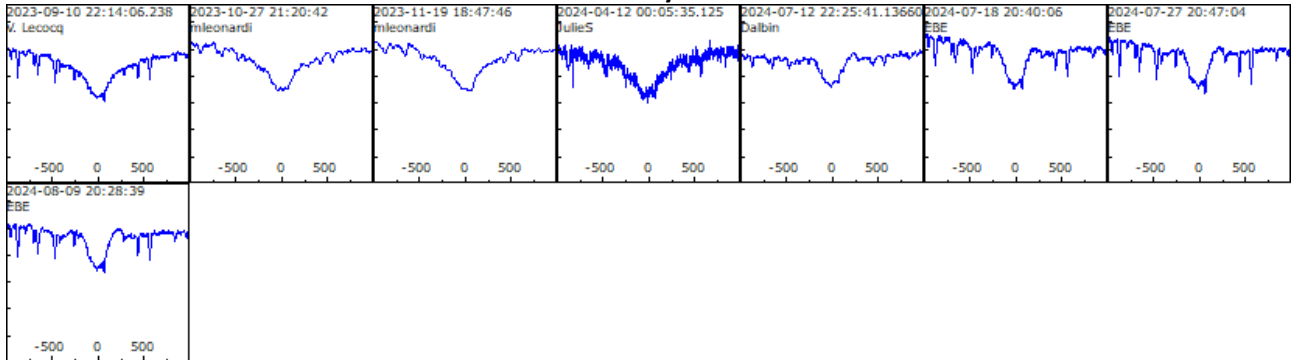
HD 171780



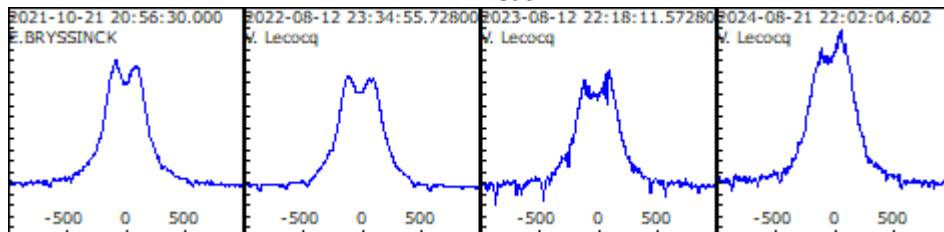
eps Cap



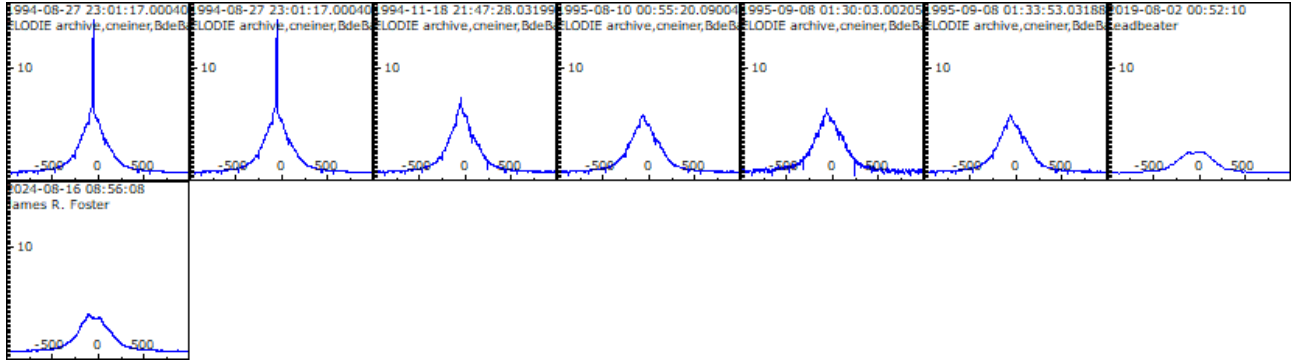
iot Lyr



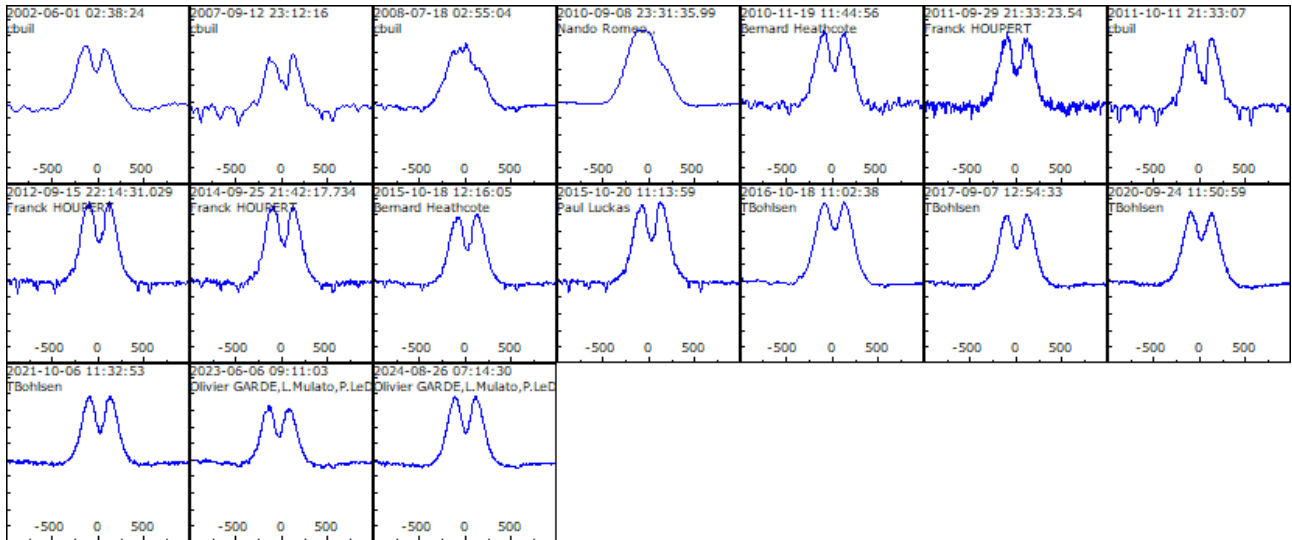
V777 Cas



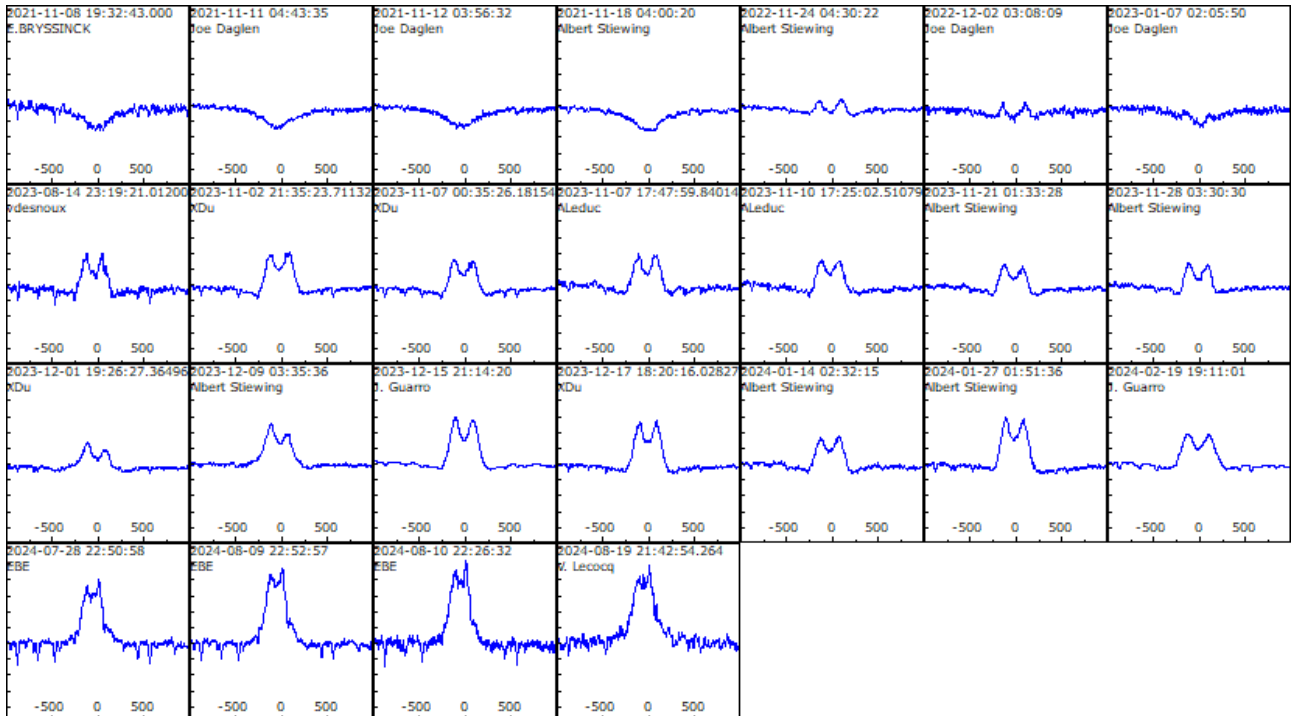
V415 Lac



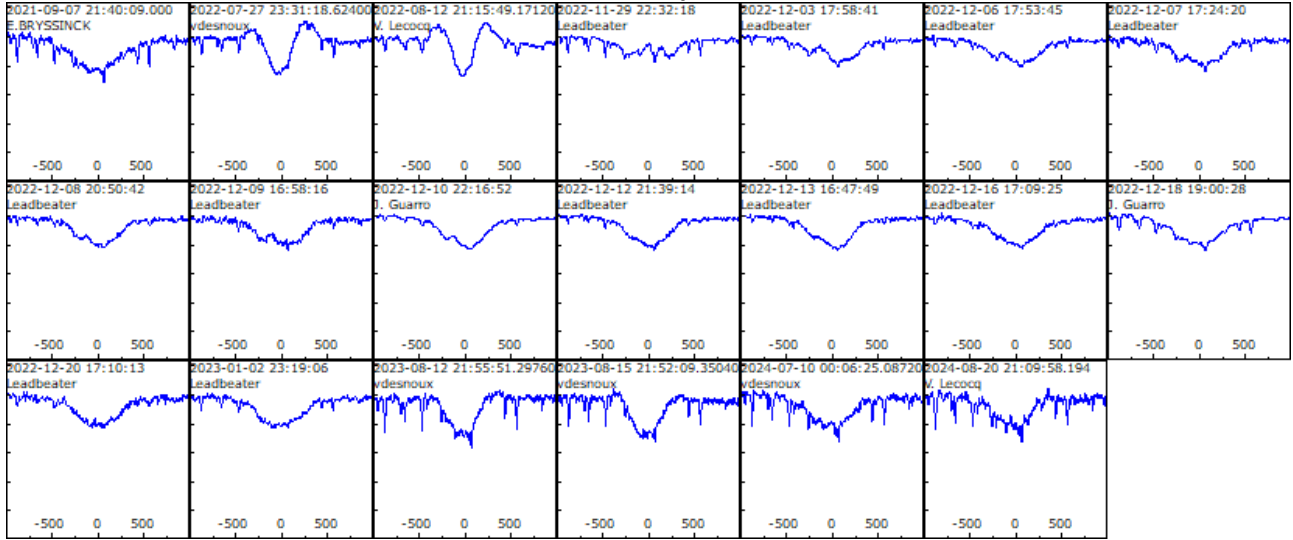
eta PsA



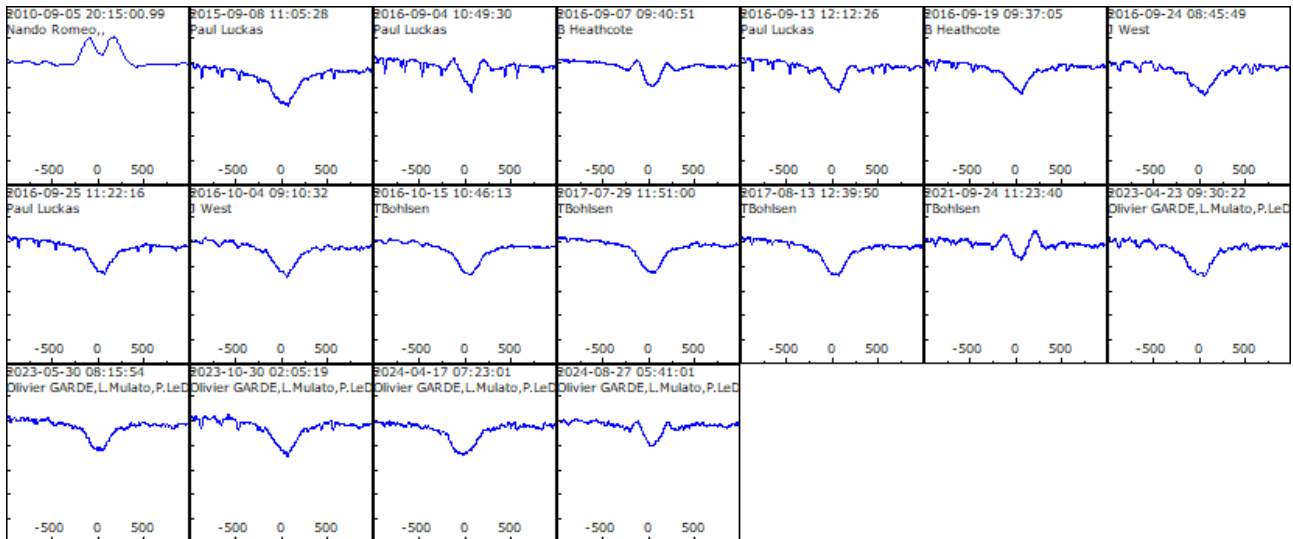
HD 225095



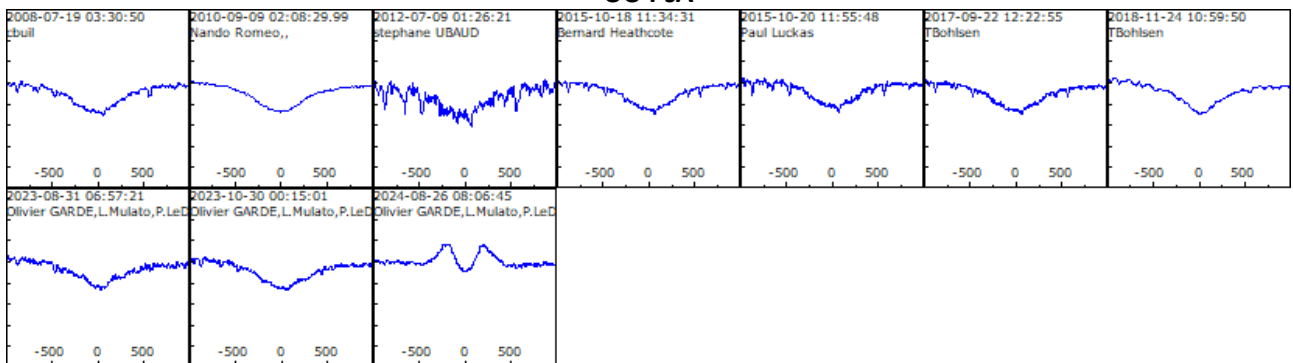
EM Cep



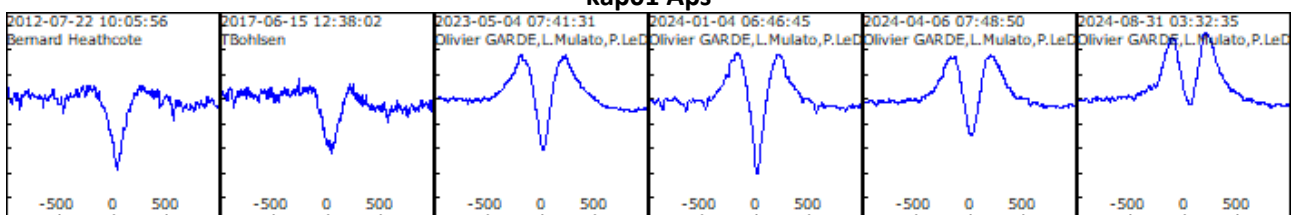
lam Pav



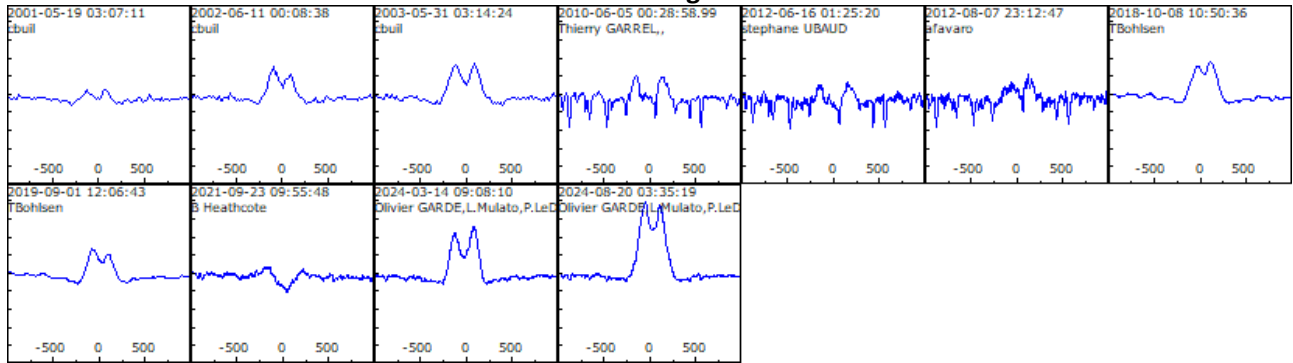
UU PsA



kap01 Aps

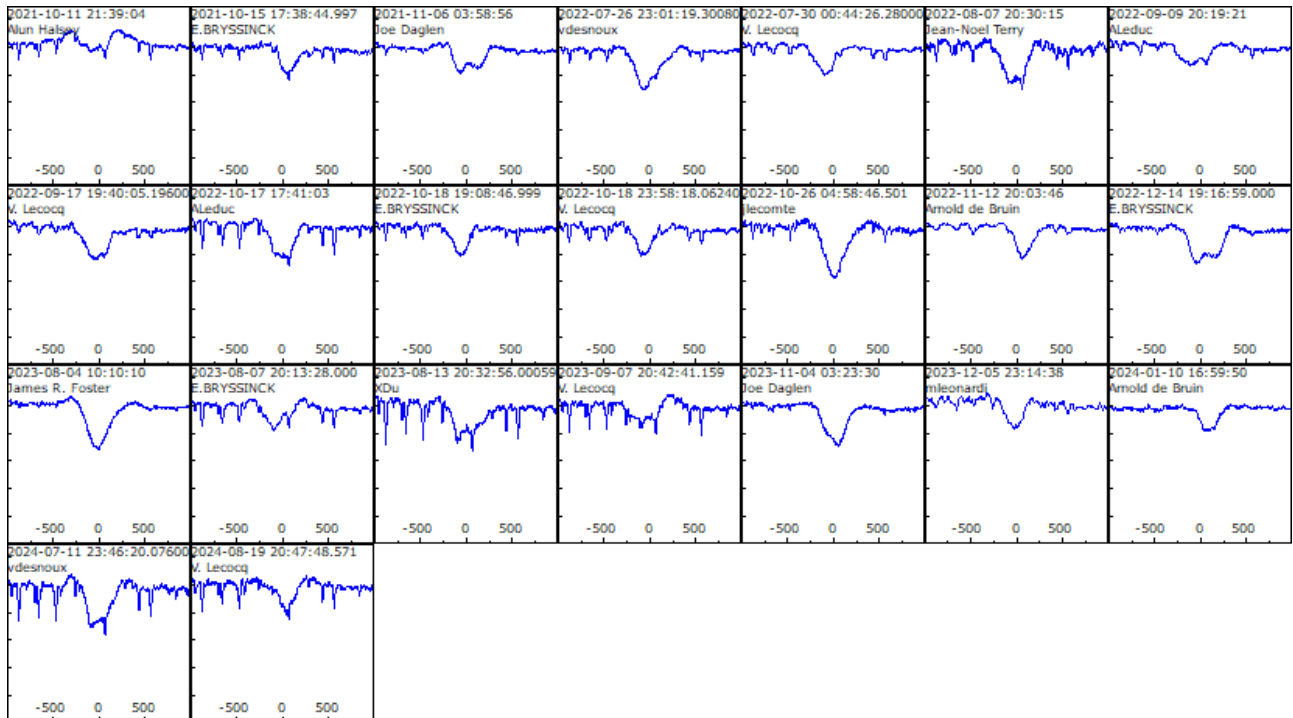


V4031 Sgr

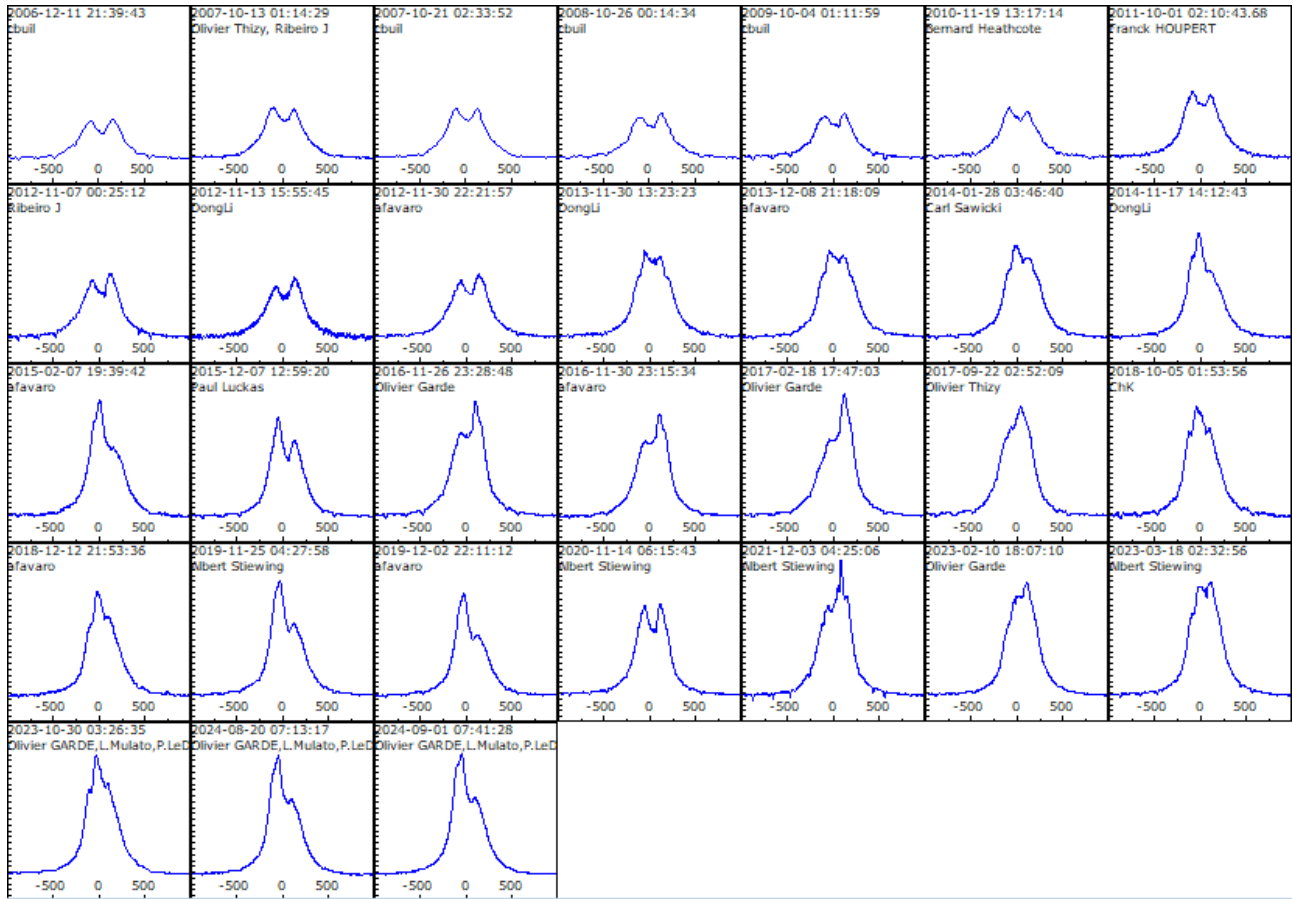


Moderate evolution of H-alpha line

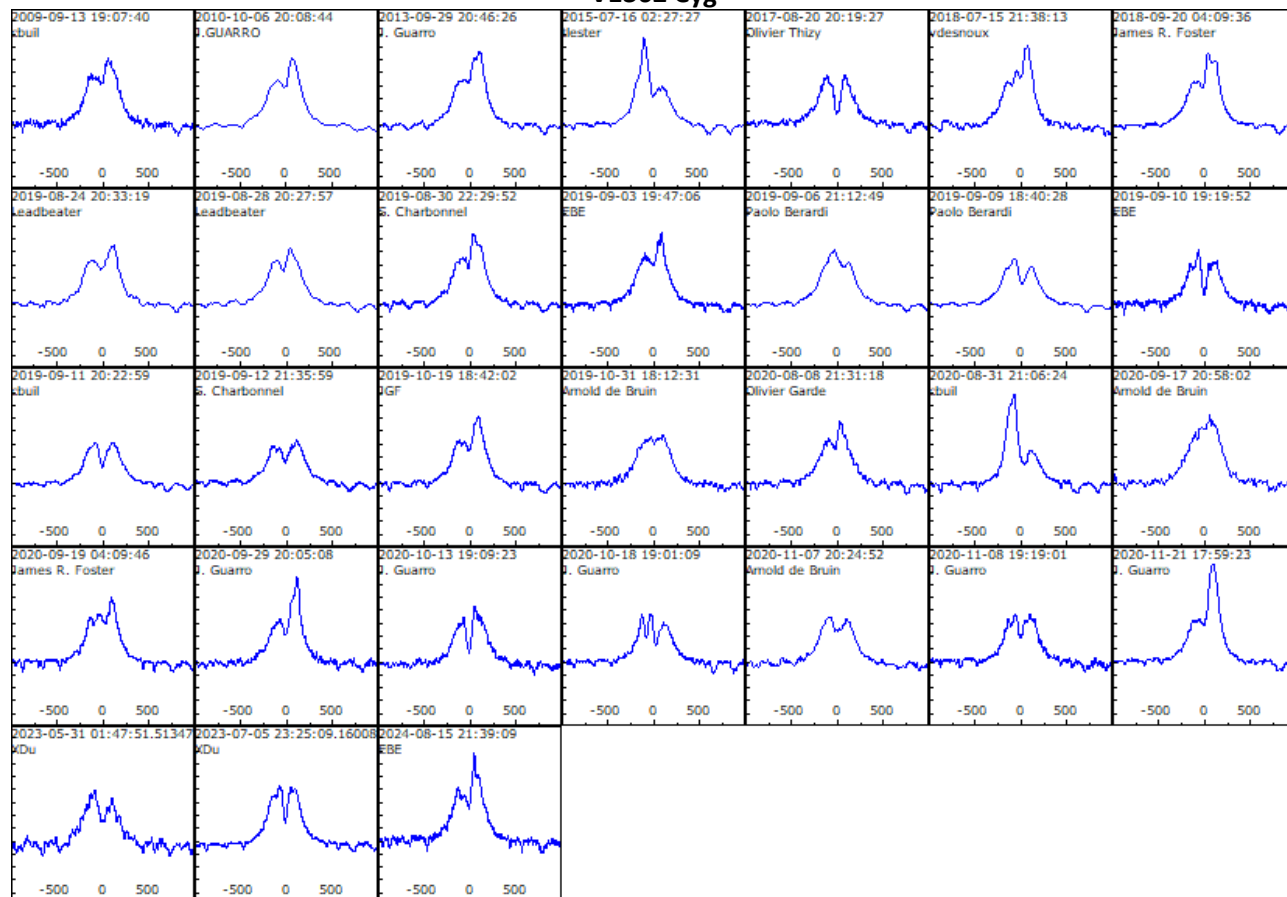
14 Lac



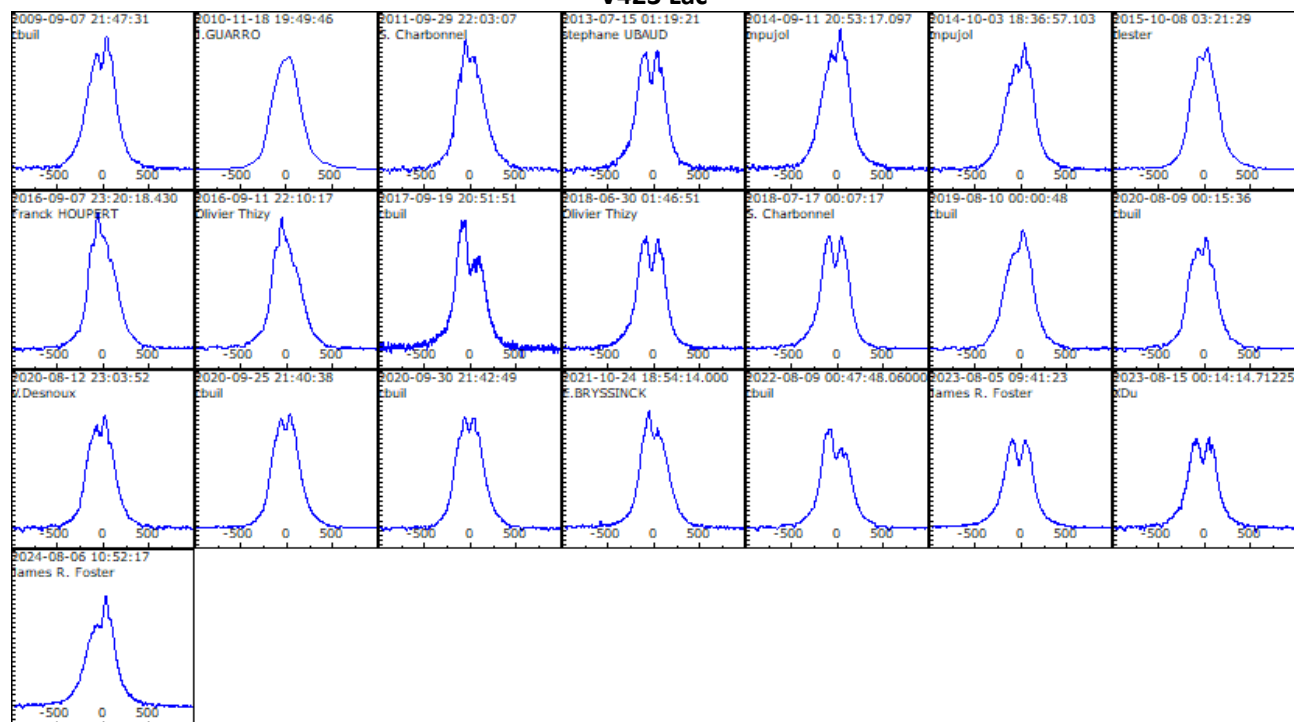
228 Eri



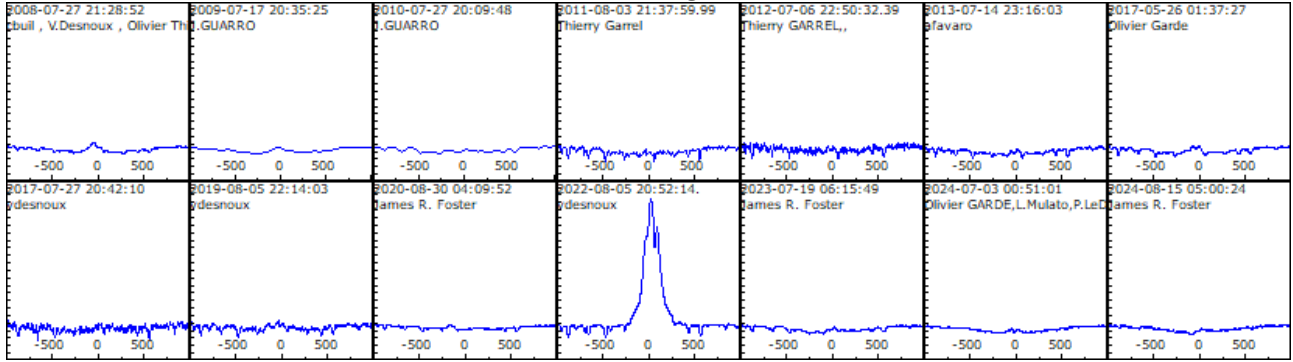
V1362 Cyg



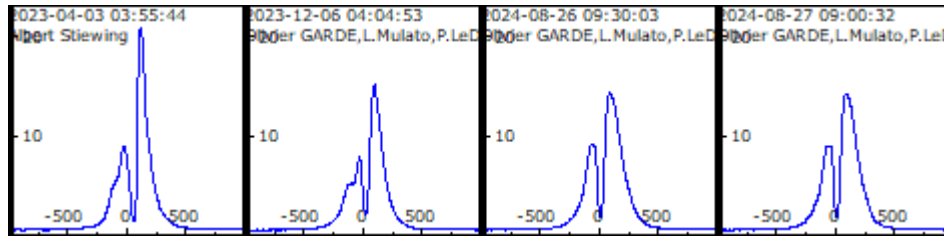
V423 Lac



V4379 Sgr

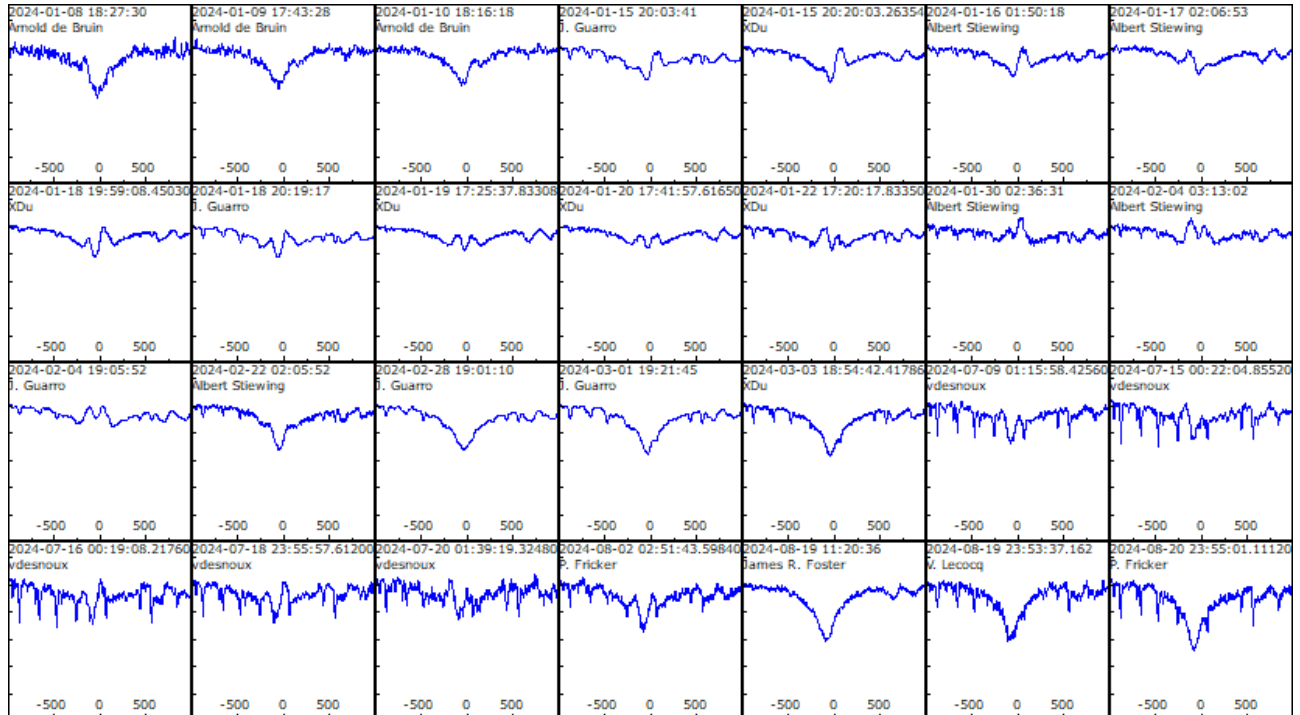


V743 Mon

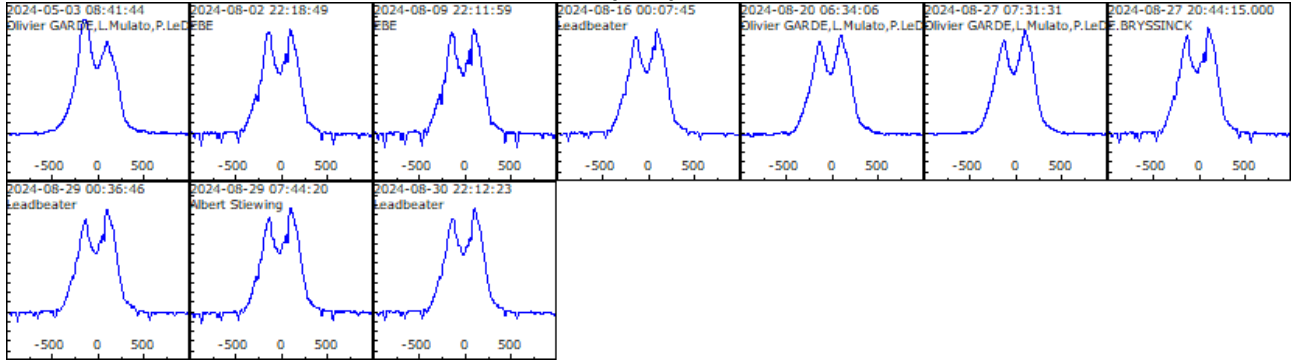


Emission decrease of H-alpha line

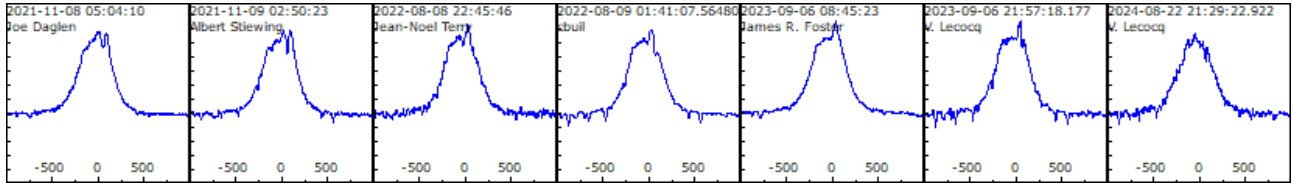
V442 And



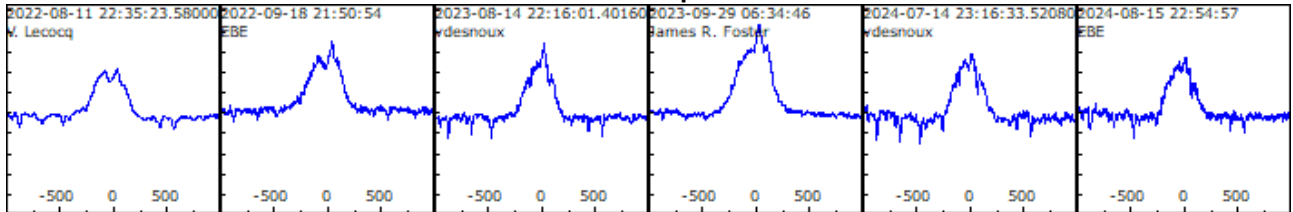
pi Aqr



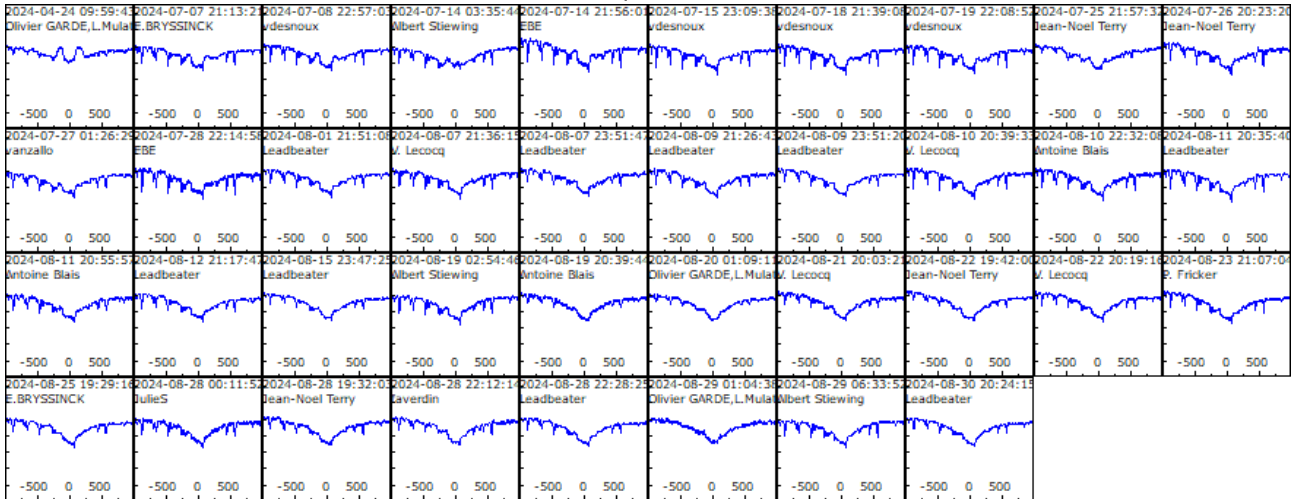
V742 Cas



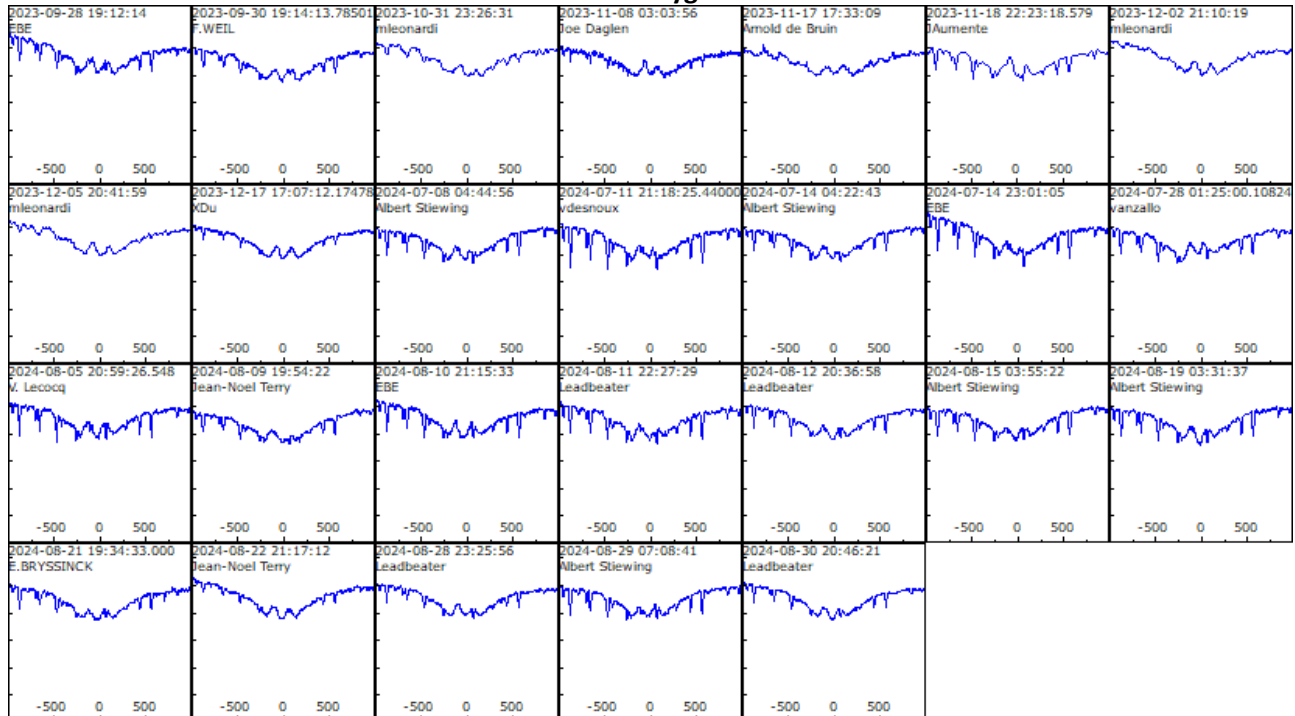
CW Cep



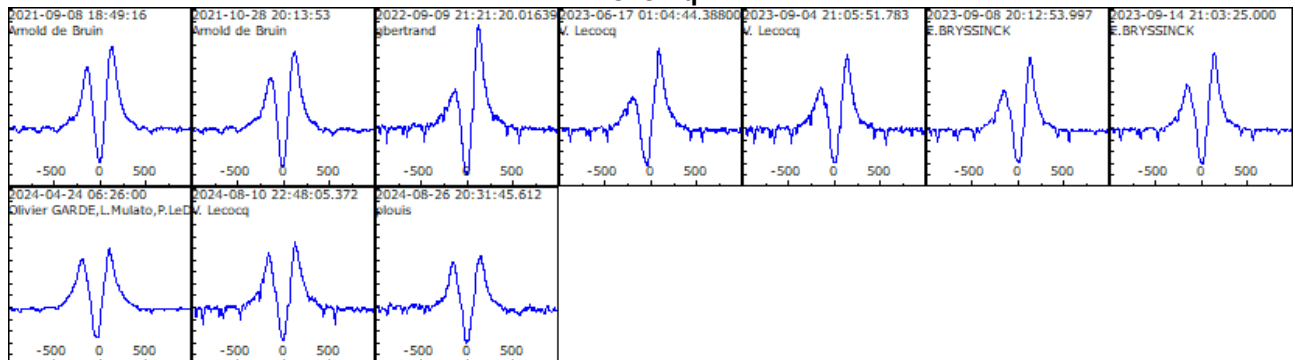
QR Vul



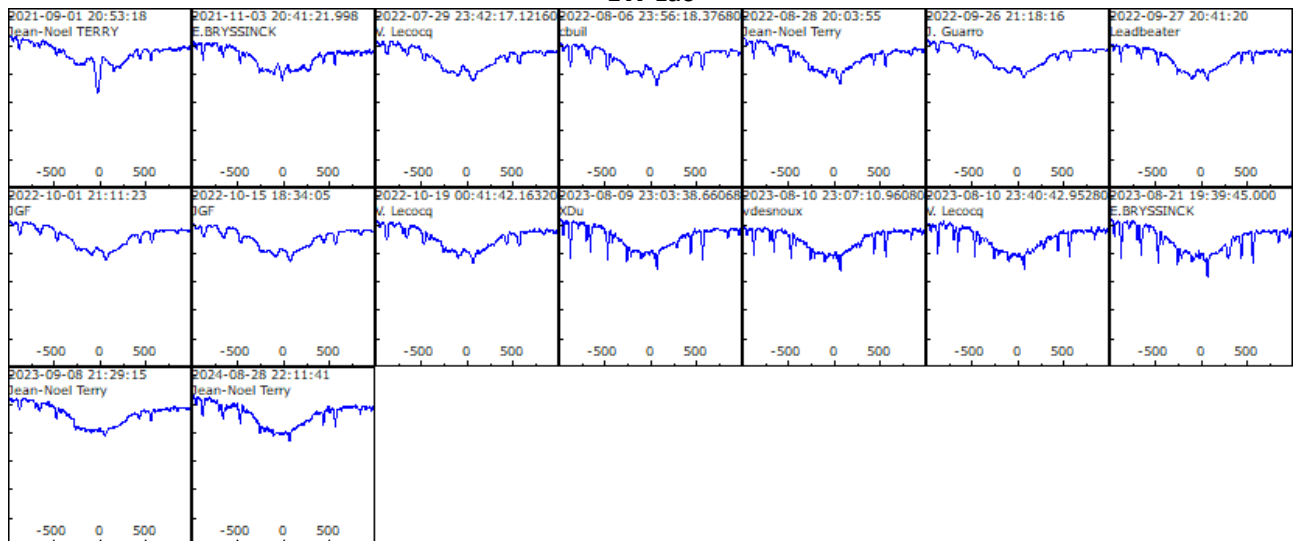
lam Cyg



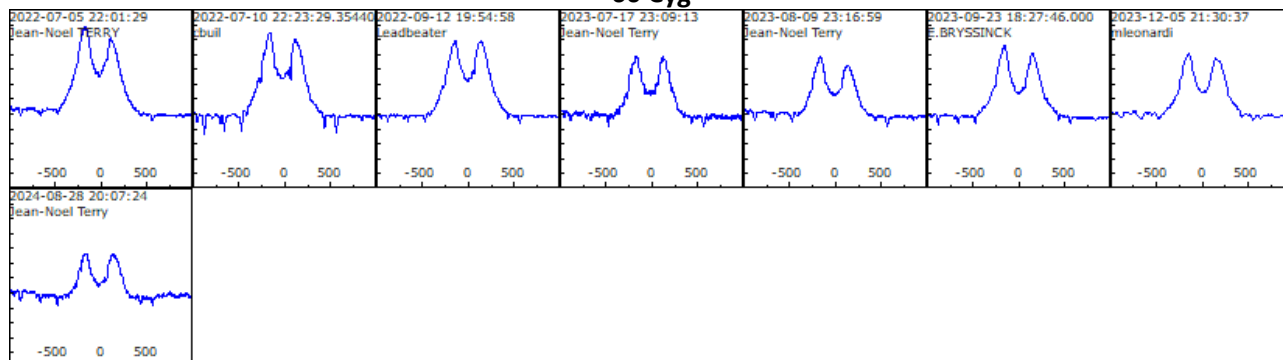
V923 Aql



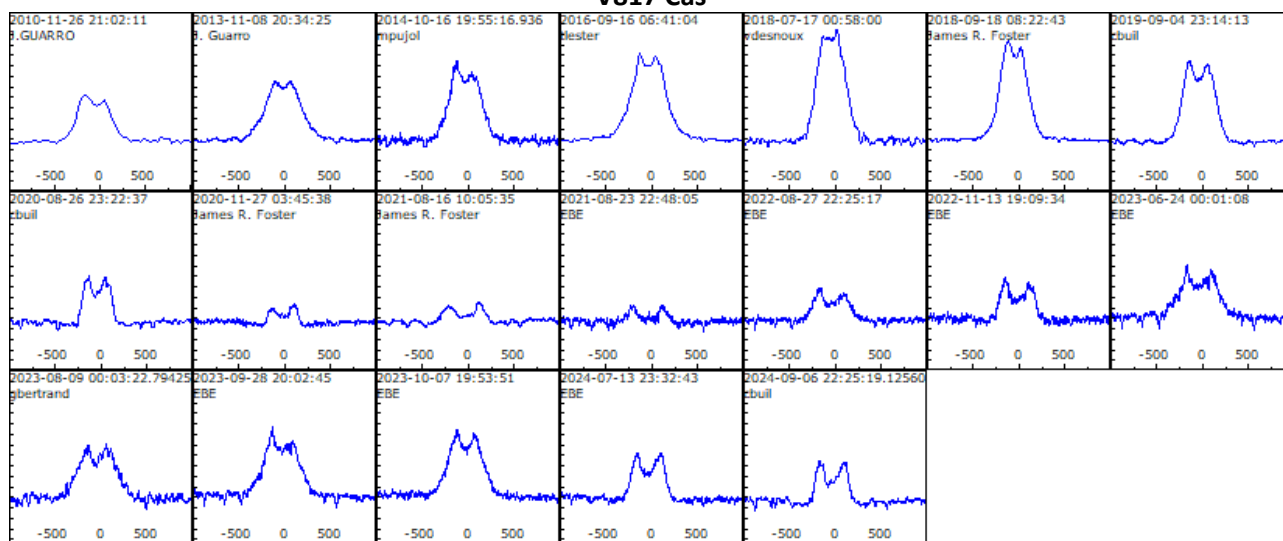
EW Lac



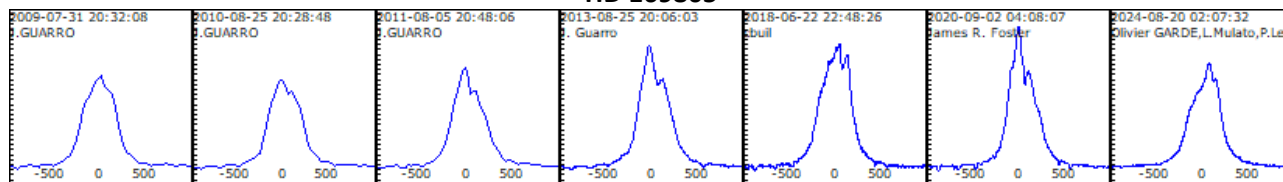
60 Cyg



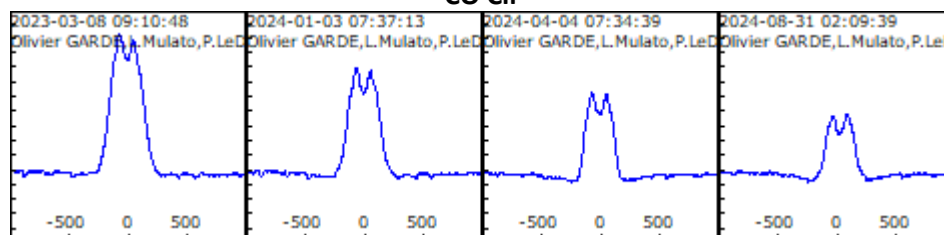
V817 Cas



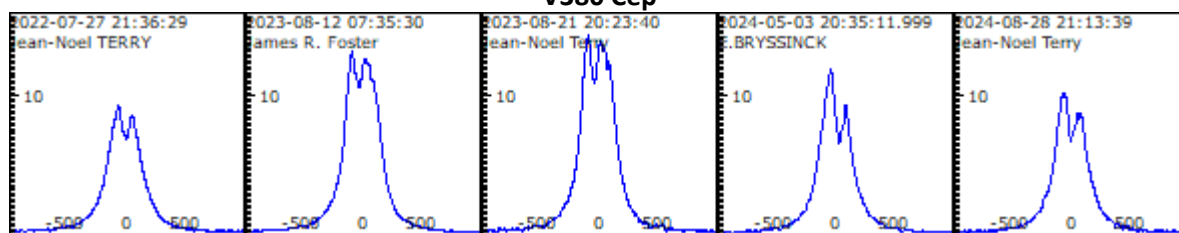
HD 169805



CO Cir



V380 Cep



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/>