



BeSS report – march 2024

H-alpha monitoring

Data compiled by
Valérie Desnoux

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

125

Stars

185

Spectra

11

Observers

Observateur	Nb spec
Charbonnel Le	
Dû GARDE Mulato Petit	121
Stiewing	22
Lecocq	13
Dupont	7
Bryssinck	5
Tibi	4
de Bruin	4
bertrand	3
Guarro Fló	3
DUBREUIL	2
James	1
Total général	185

Events of the month...

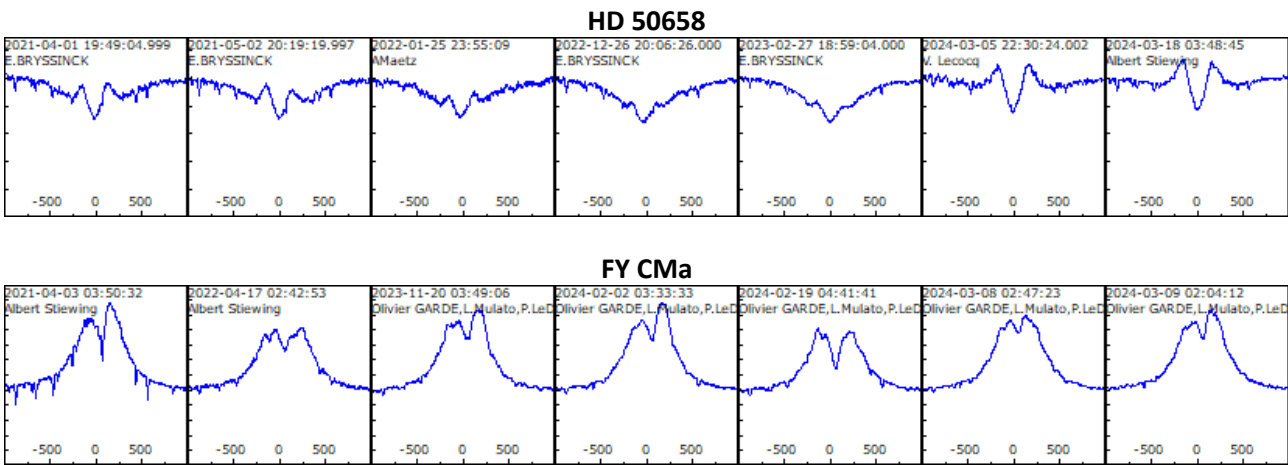
EE: Emission Event, ME: Moderate Events, DE: Decreasing Event

EE	ME	DE
HD 50658	V1339 Aql	HD 163296
FY CMa	omi Pup	HD 176386
V744 Mon	tet CrB	V442 And
bet Mon A	HD 171219	lam Eri
V2382 Oph	V3903 Sgr	OT Gem
HD 164050	HD 168135	69 Ori
HD 57682	zet Crv	DE Cam
del Cen	V696 Mon	V974 Her
V4400 Sgr	V868 Ara	V817 Cen
V4031 Sgr	HD 44996	FR CMa
V3984 Sgr	HD 160648	25 Ori
HP CMa	HD 165063	HD 42054
	10 CMa	QY Gem
	HD 172158	HD 174886
	HD 177015	HD 276886
		HD 84567
		NV Pup
		HV Lup

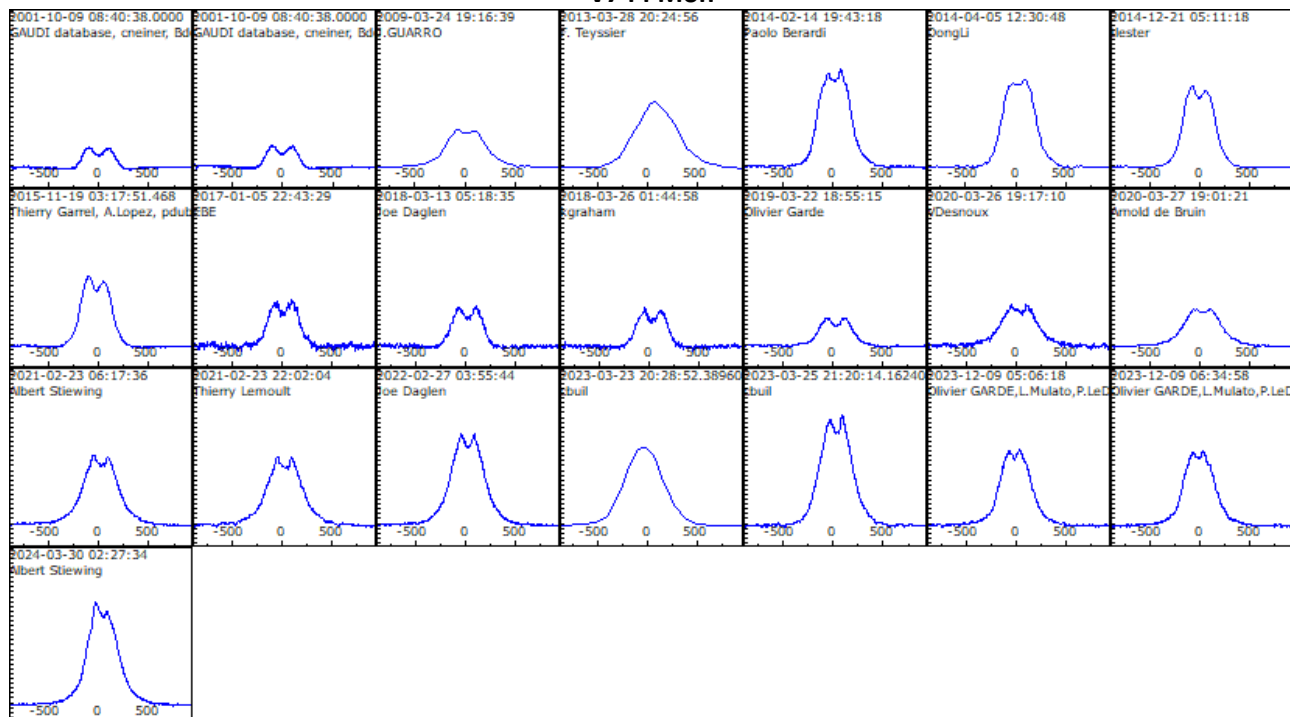
Objects observed

Classique							Herbig
V442 And	PLEIONE	ELECTRA	gam Cas	lam Eri	zet Tau	OT Gem	HD 163296
MEROPE	V1339 Aql	69 Ori	105 Tau	ALCYONE	omi Pup	bet CMi	HD 176386
HD 50658	HD 32188	tet CrB	HD 171219	PHECDA	53 Boo	V448 Sct	B[e]
HD 176630	DE Cam	V3903 Sgr	V974 Her	HD 168135	FY CMa	zet Crv	I Pup
kap Dra	HD 79066	I Hya	phi Leo	HD 76868	V744 Mon	ome Car	
4 Her	CQ UMa	V817 Cen	HD 91120	HD 87543	FR CMa	25 Ori	
HD 50820	bet Mon A	V696 Mon	V868 Ara	HD 44996	ACHERNAR	V378 Pup	
29 Dor	HD 81357	PZ Gem	HD 42054	mu Pic	V695 Mon	HD 69168	
HD 68423	QY Gem	OY Hya	V374 Car	HD 71510	HD 174886	V2382 Oph	
HD 164050	HD 160648	HD 165063	ome CMa	HD 276886	27 CMa	HD 37971	
alf Col	AN Col	V3508 Sgr	HD 50209	HD 43544	HD 57682	j Cen	
E Car	f Car	QY Car	HD 79621	J Vel	p Car	V507 Car	
HD 93563	HD 84567	del Cen	V518 Car	V863 Cen	V1077 Sco	HD 81753	
IY CMa	10 CMa	bet Hya	V4045 Sgr	HD 172158	V4400 Sgr	HD 177015	
V4031 Sgr	NW Pup	NV Pup	r Pup	IU Vel	EM* StHA 143	HD 161807	
V3984 Sgr	PQ Pup	HV Lup	DR Cha	V392 Pup	HD 75081	V468 Pup	
NO CMa	HD 49319	HD 72067	HD 109857	HD 69404	V339 Pup	HP CMa	
HD 54167	HD 252053	141 Tau					

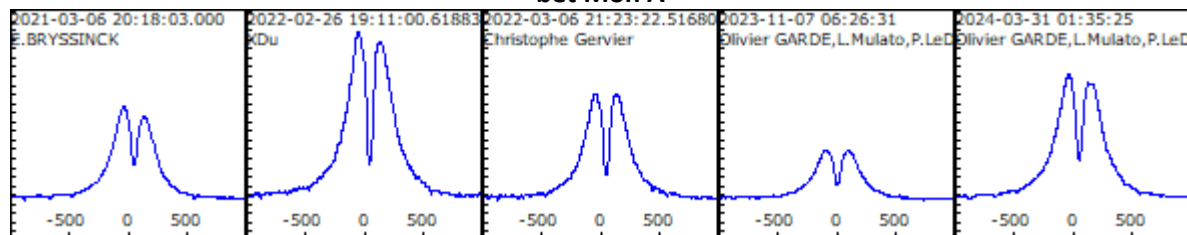
Emission increase since last observations



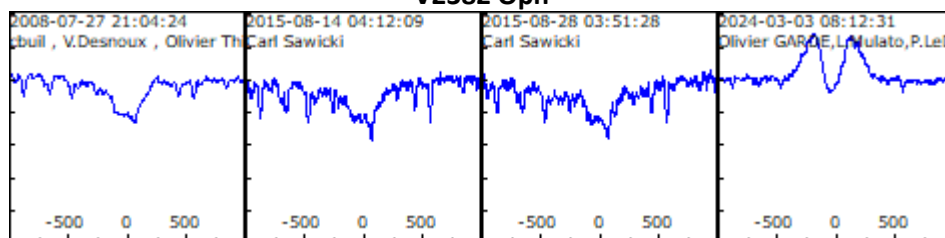
V744 Mon



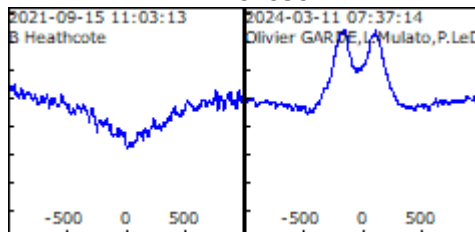
bet Mon A



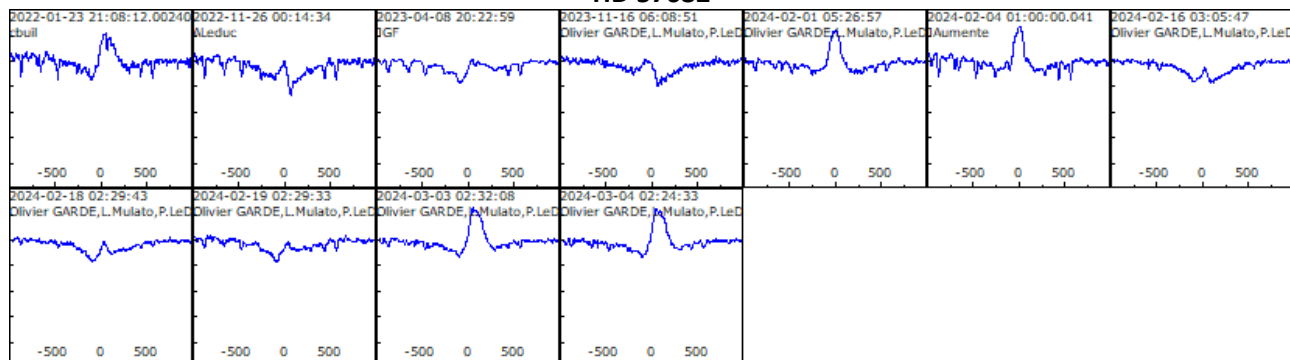
V2382 Oph



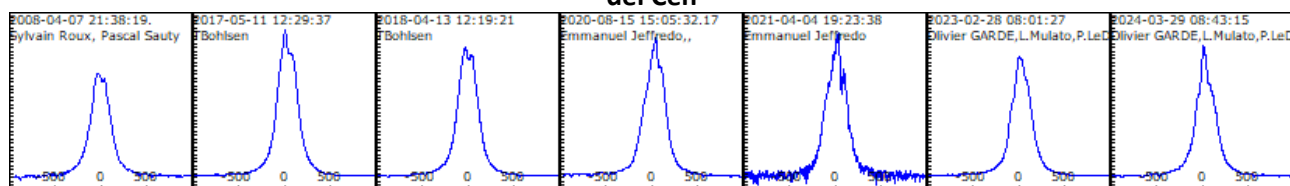
HD 164050



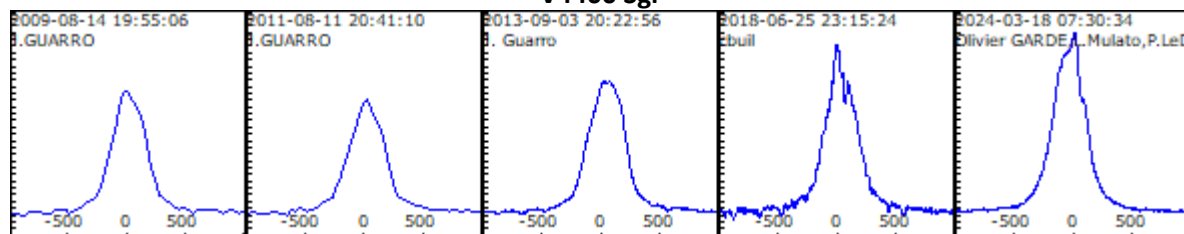
HD 57682



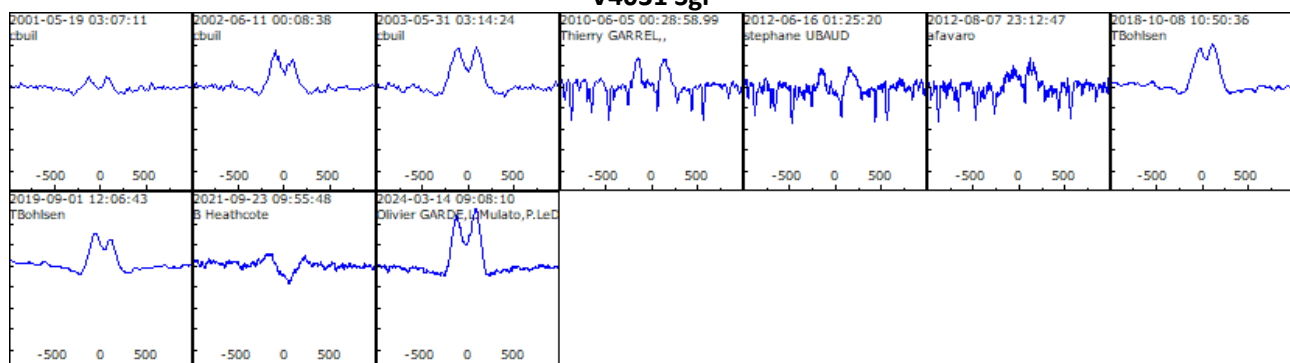
del Cen



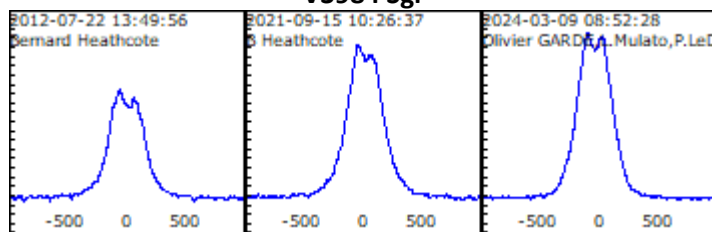
V4400 Sgr



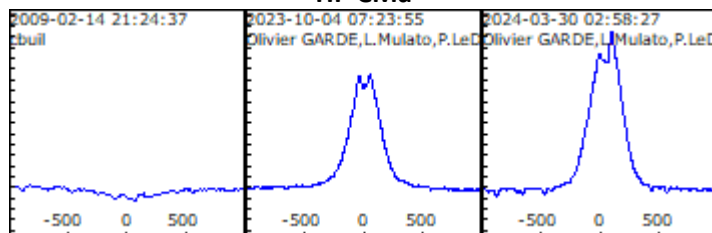
V4031 Sgr



V3984 Sgr

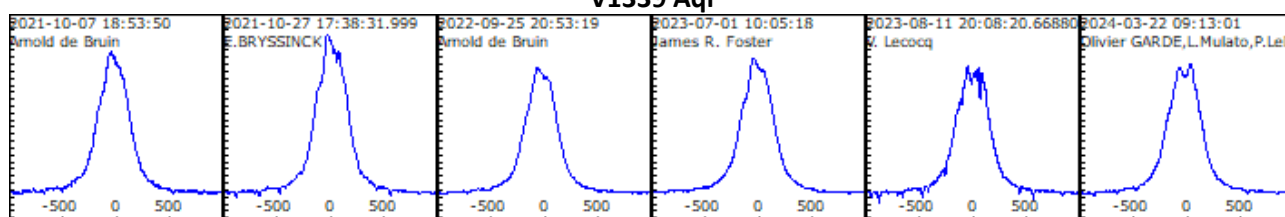


HP CMa

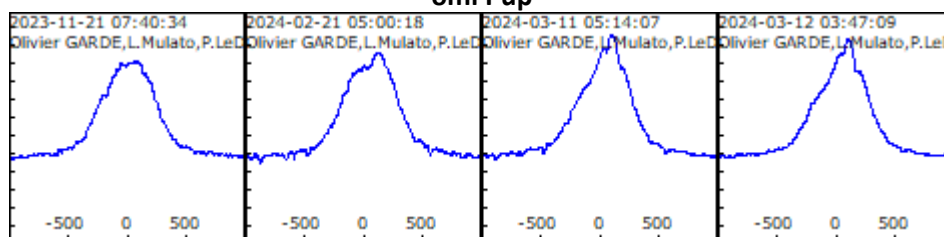


Moderate evolution of H-alpha line

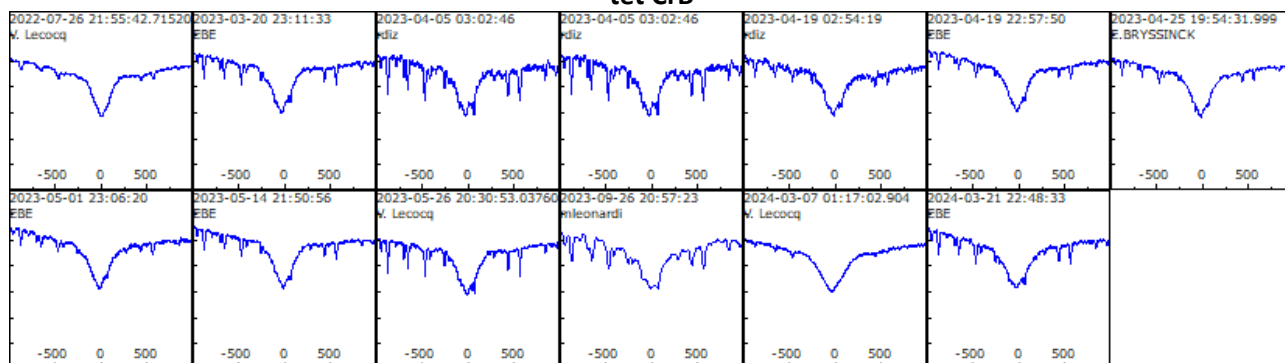
V1339 Aql



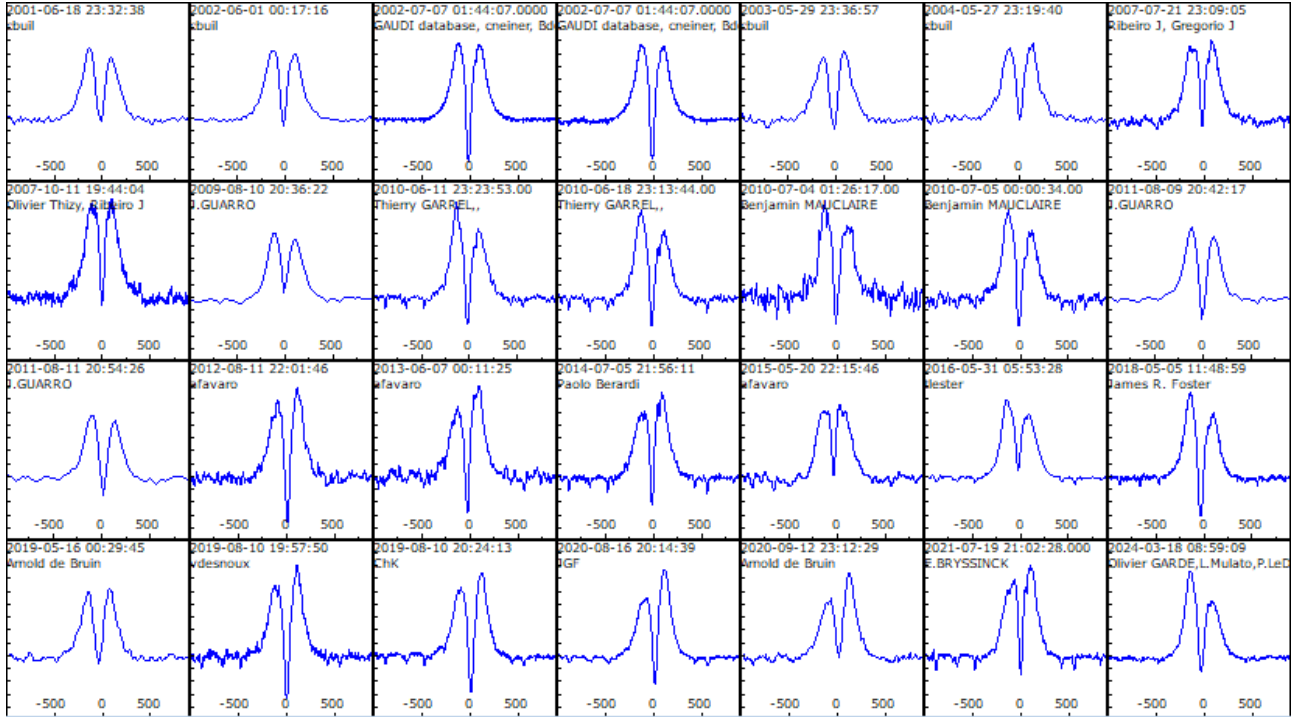
omi Pup



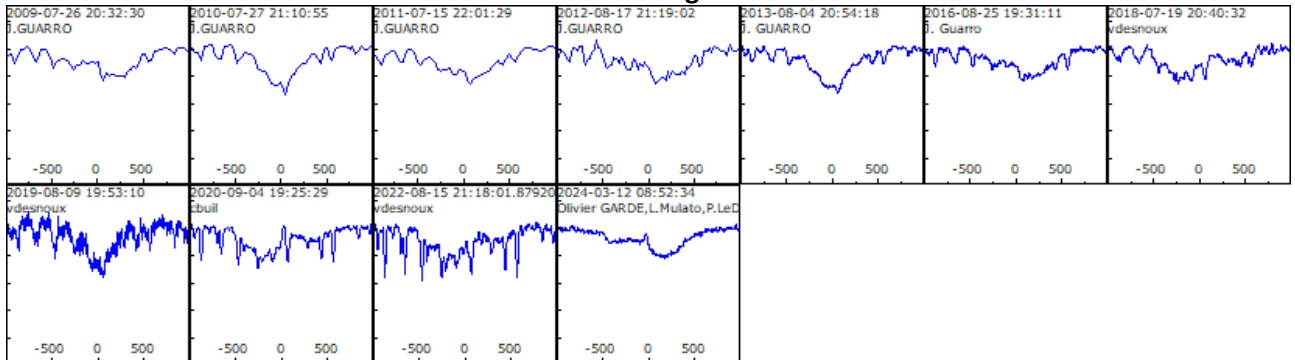
tet CrB



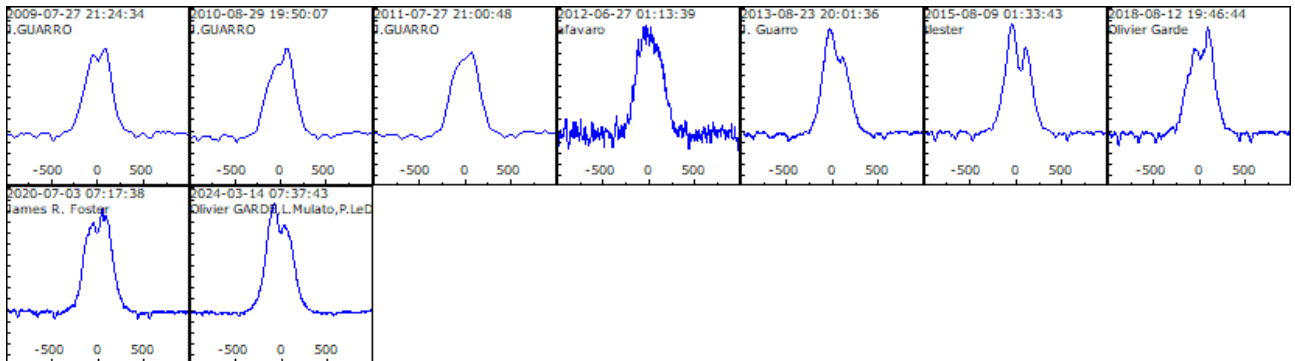
HD 171219



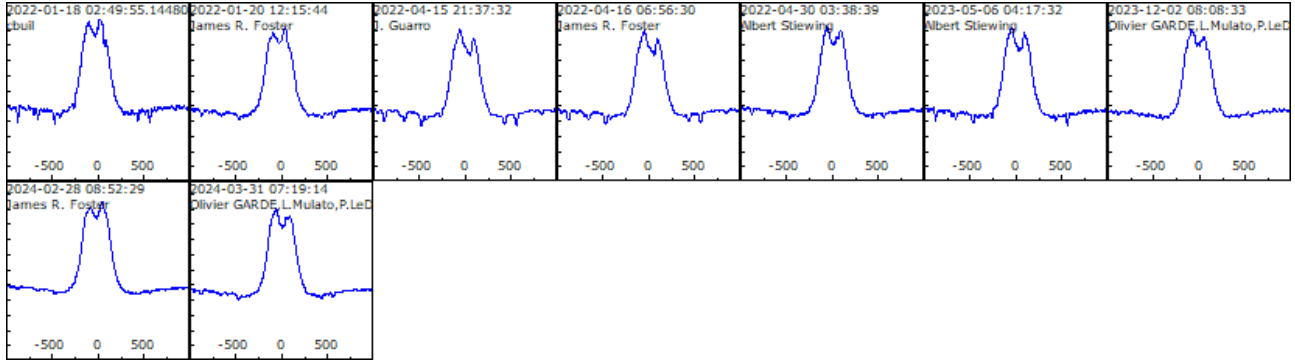
V3903 Sgr



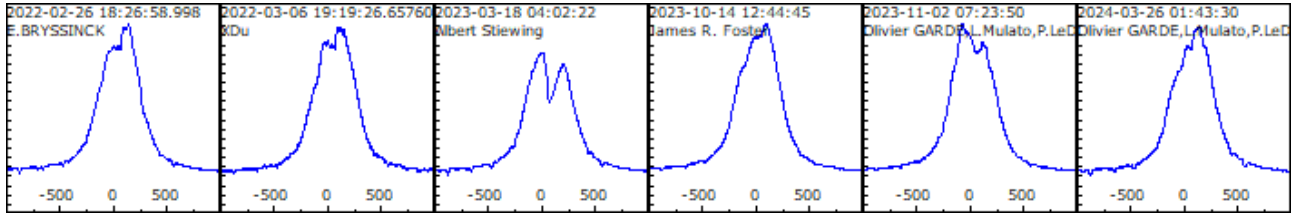
HD 168135



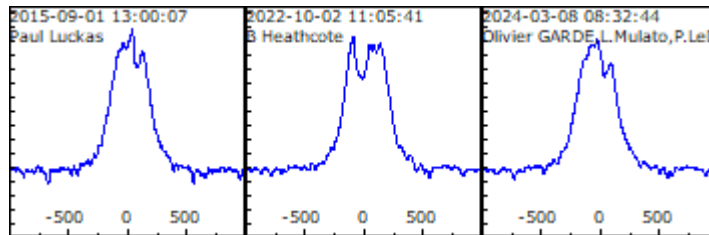
zet Crv



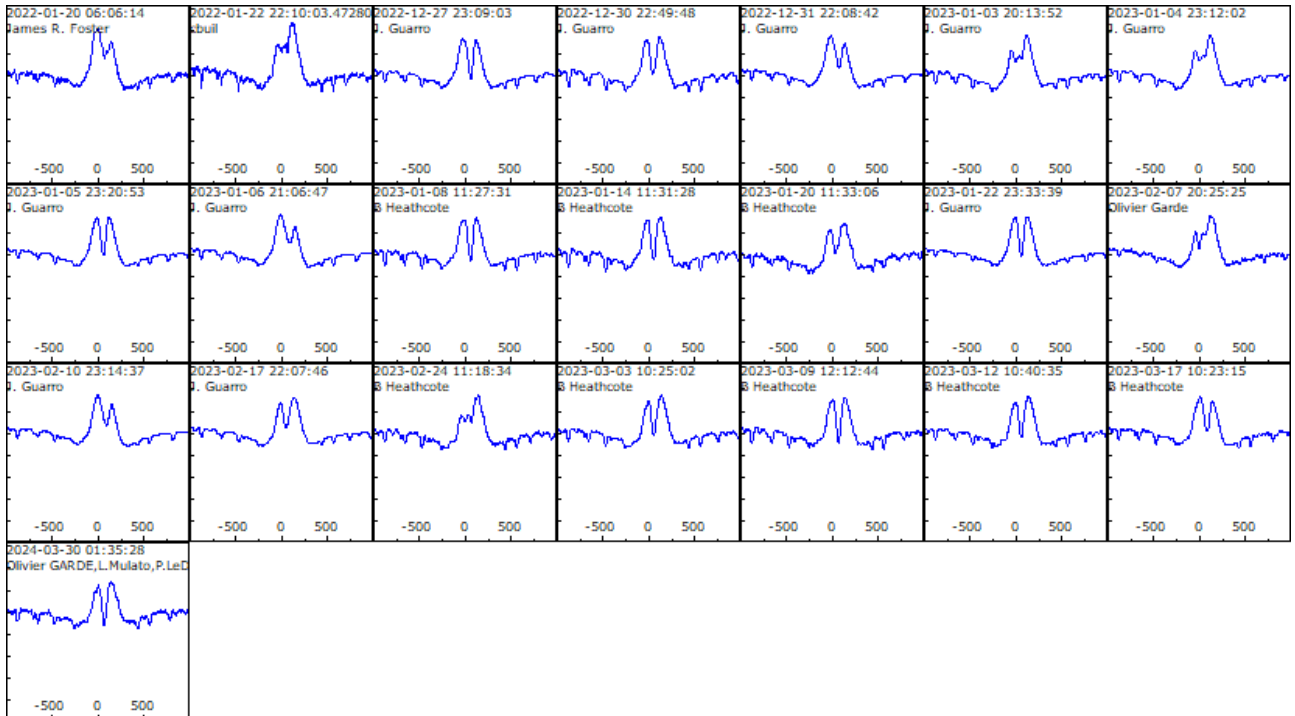
V696 Mon



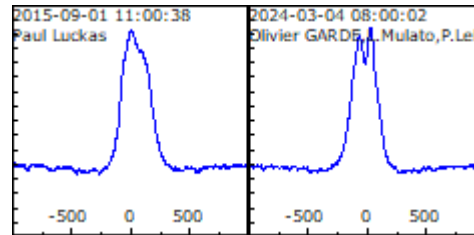
V868 Ara



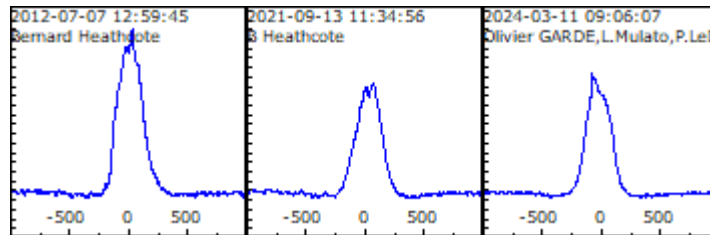
HD 44996



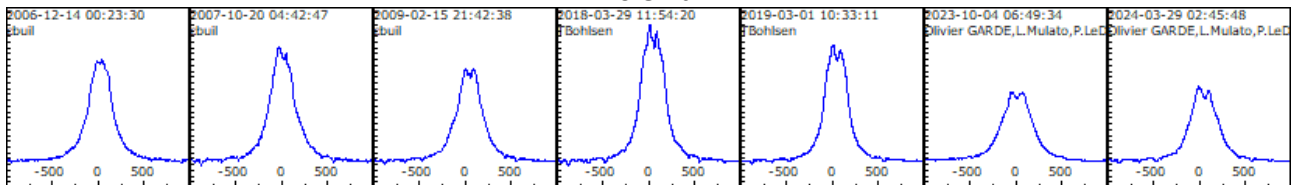
HD 160648



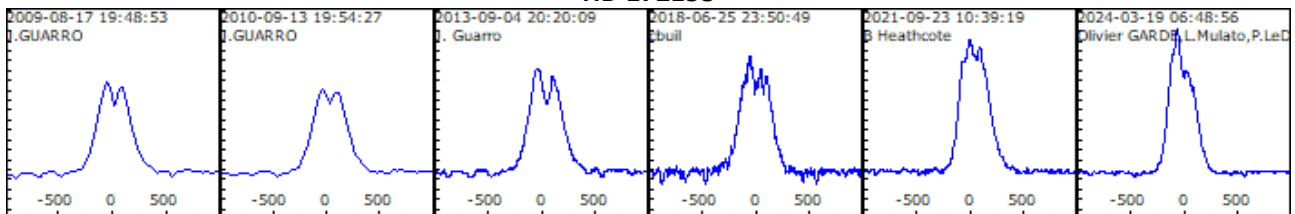
HD 165063



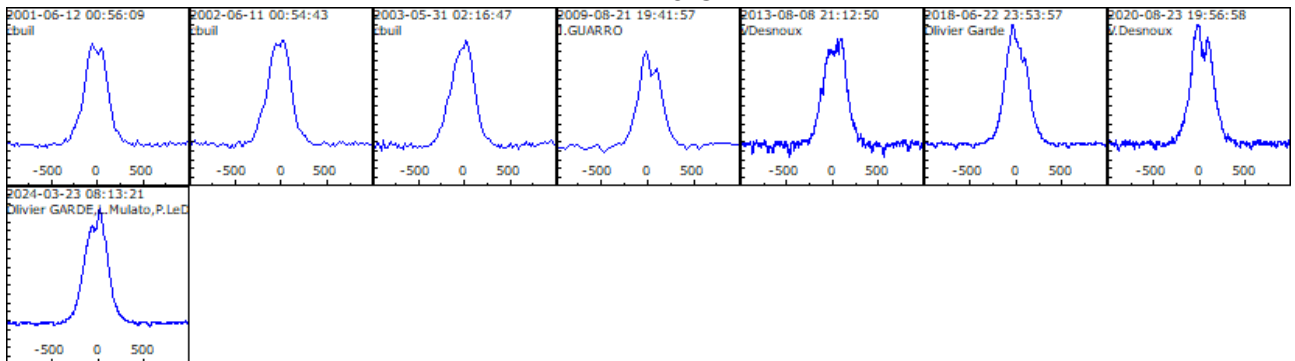
10 CMa



HD 172158

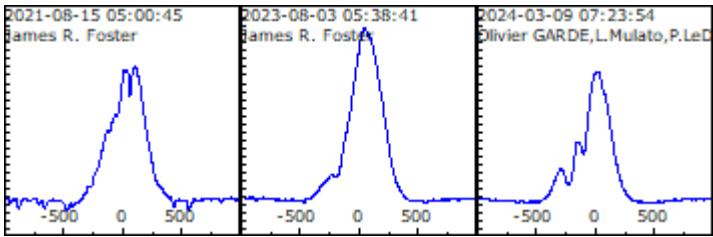


HD 177015

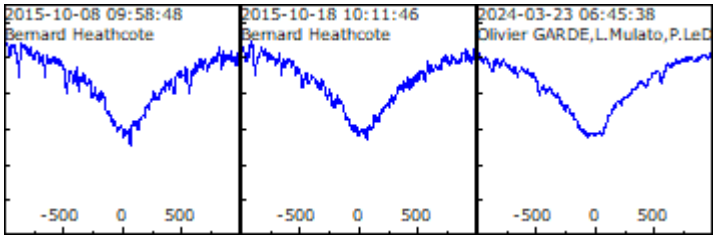


Emission decrease of H-alpha line

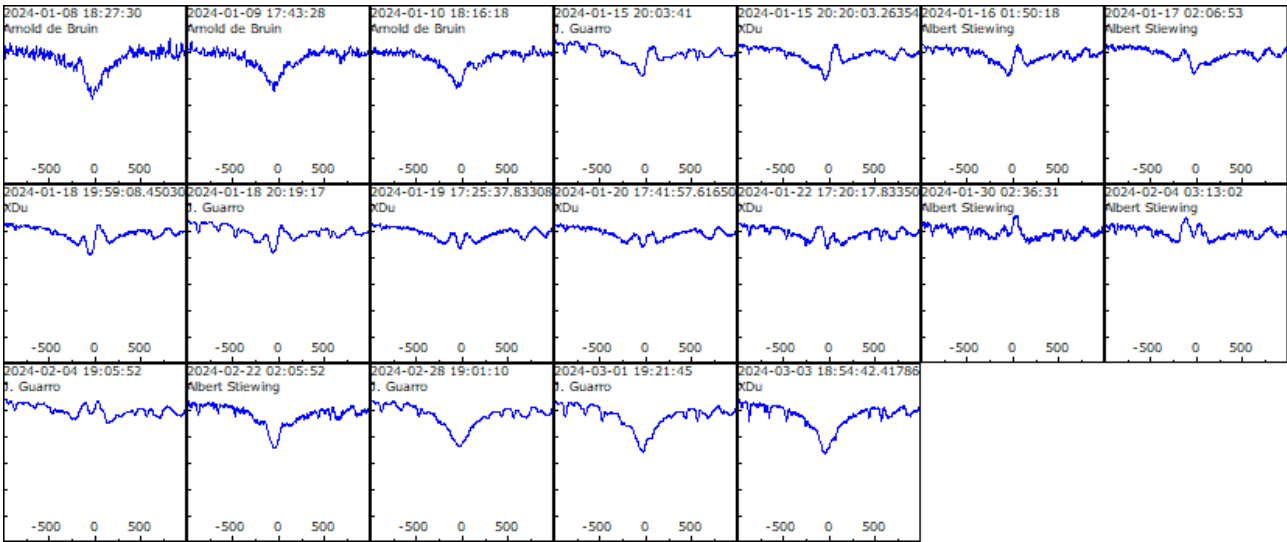
HD 163296



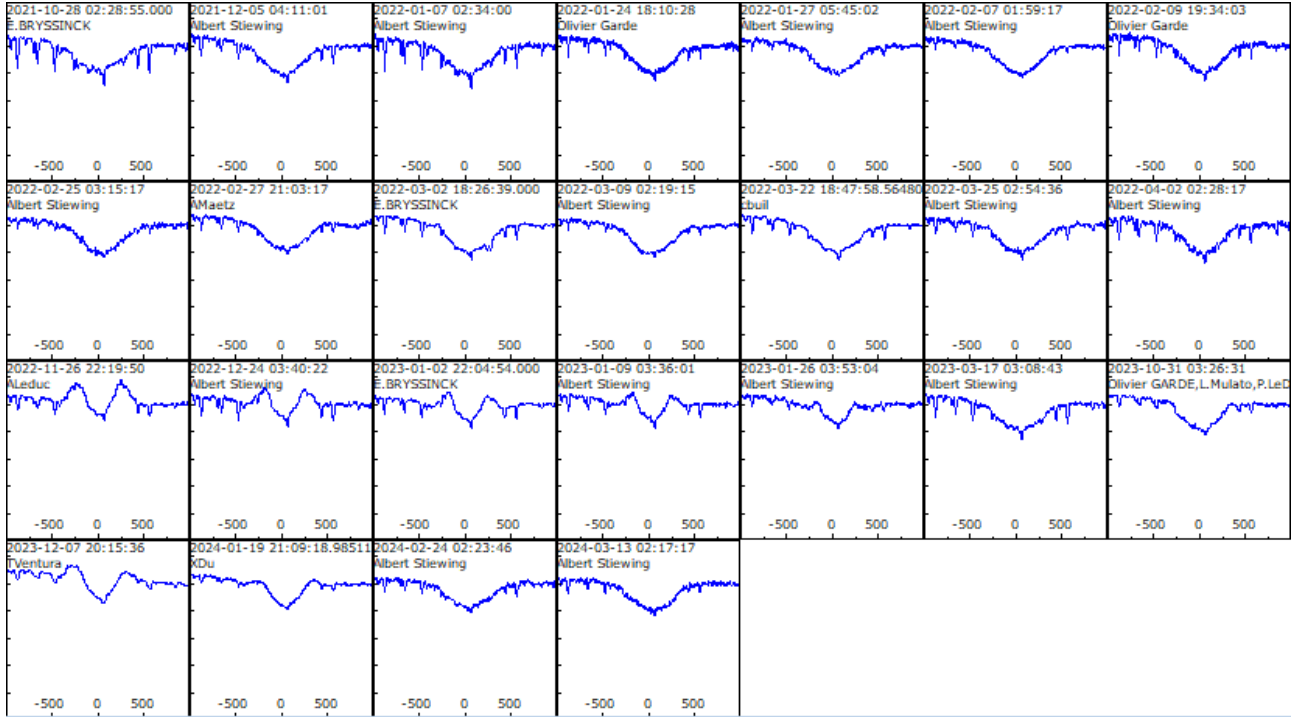
HD 176386



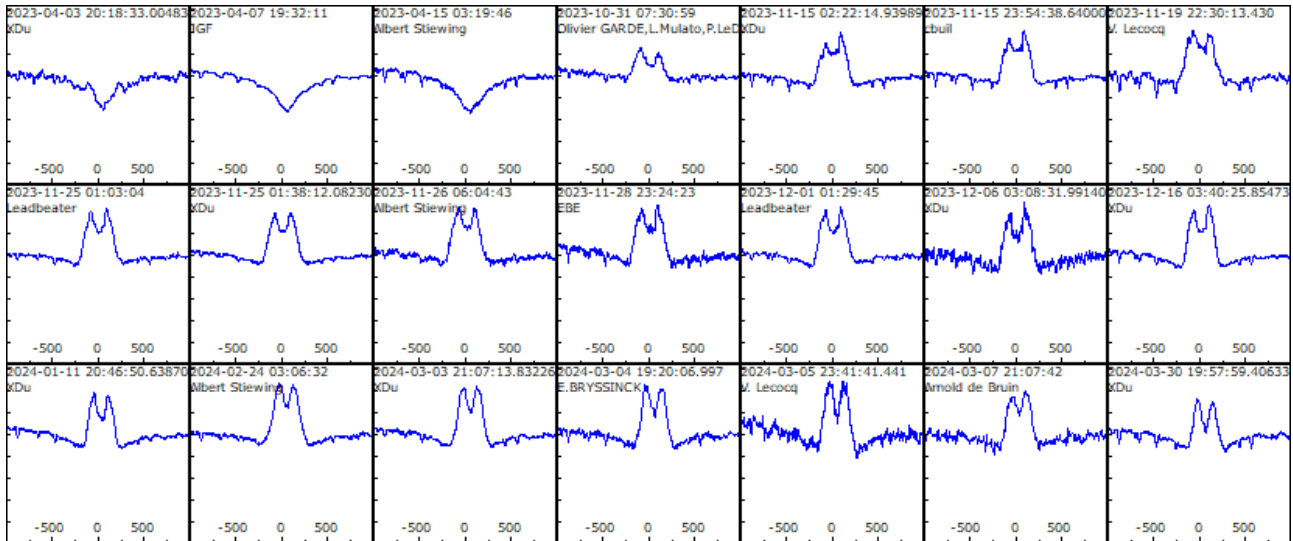
V442 And



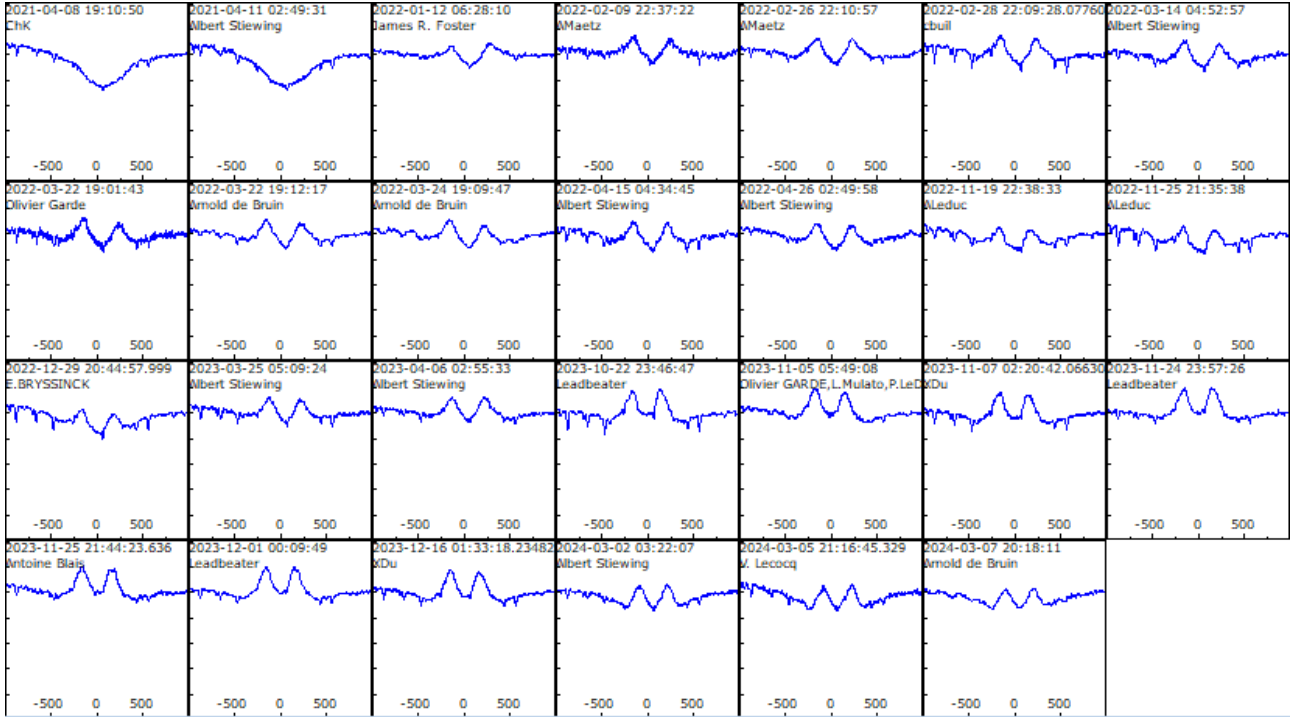
Iam Eri



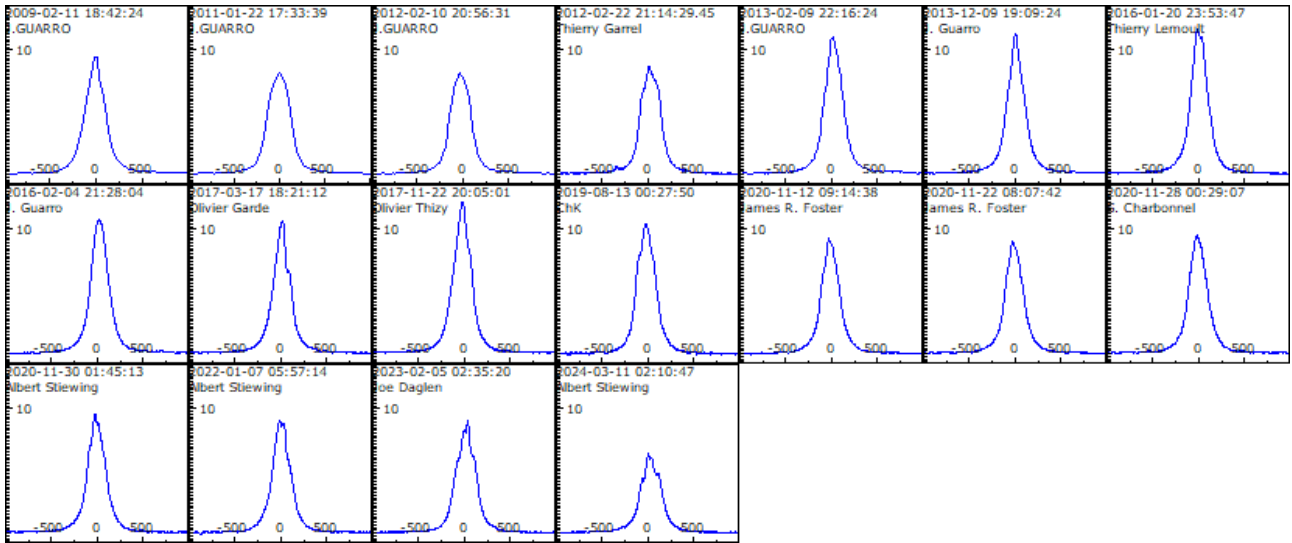
OT Gem



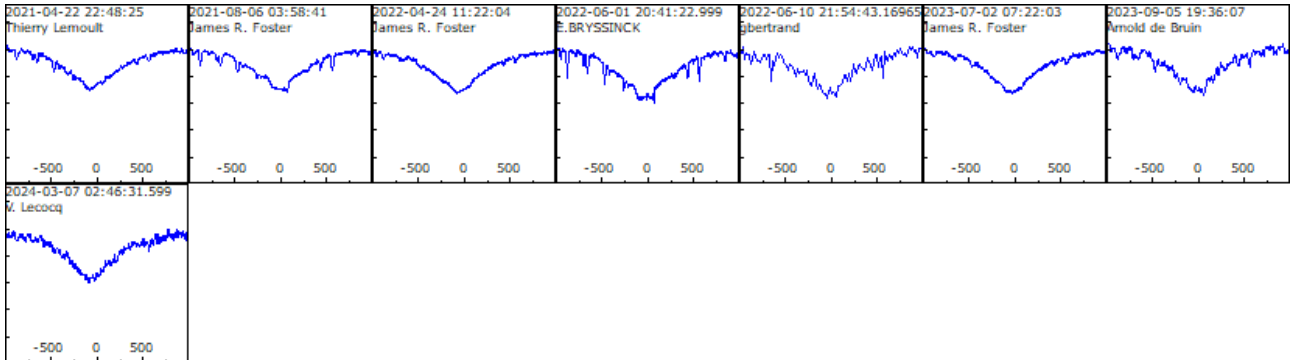
69 Ori



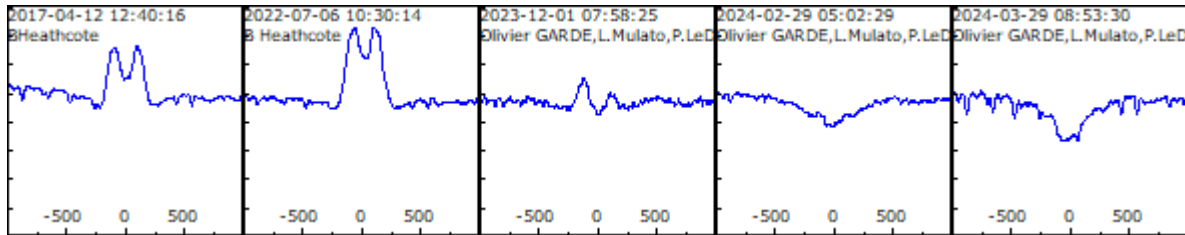
DE Cam



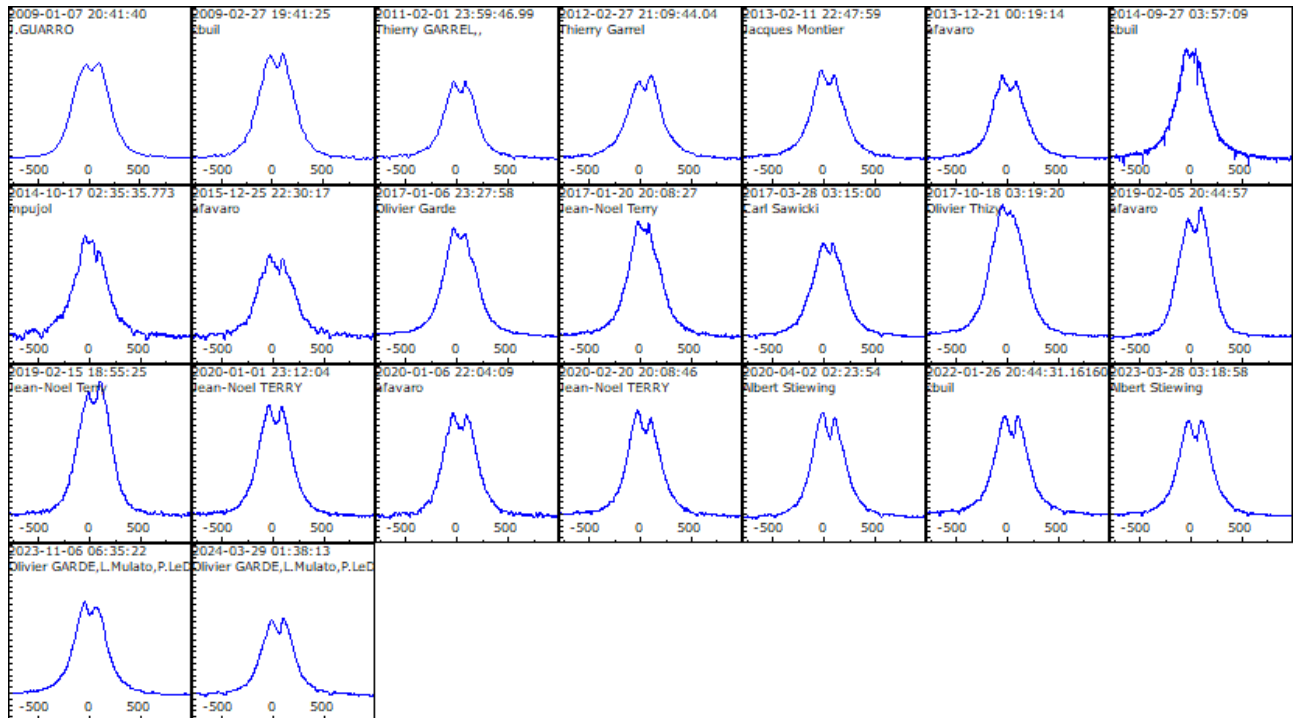
V974 Her



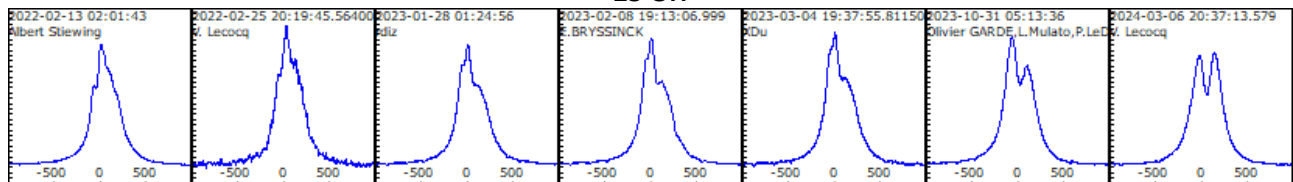
V817 Cen



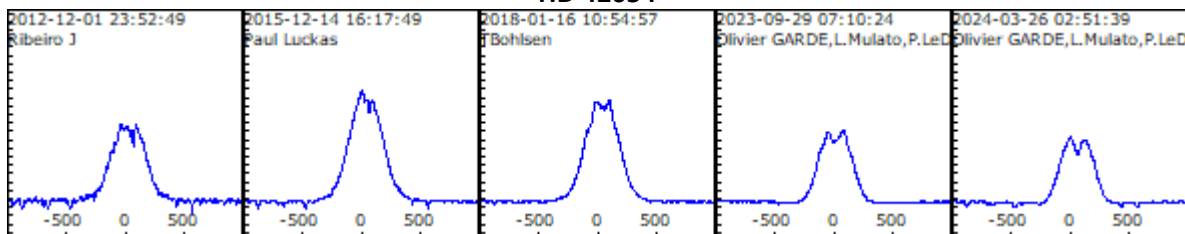
FR CMa



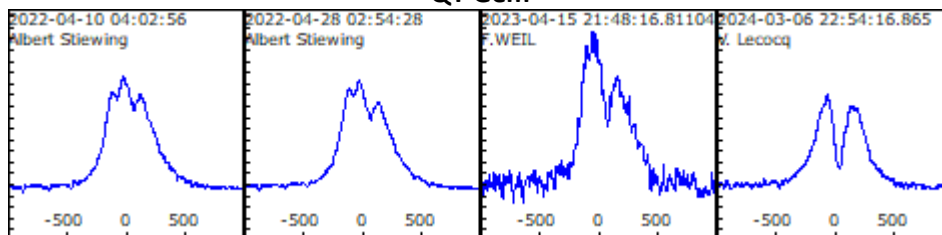
25 Ori



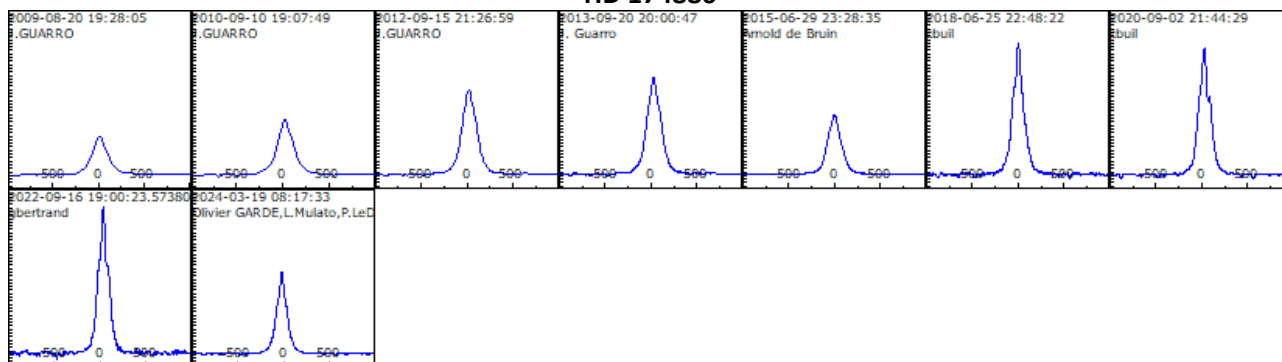
HD 42054



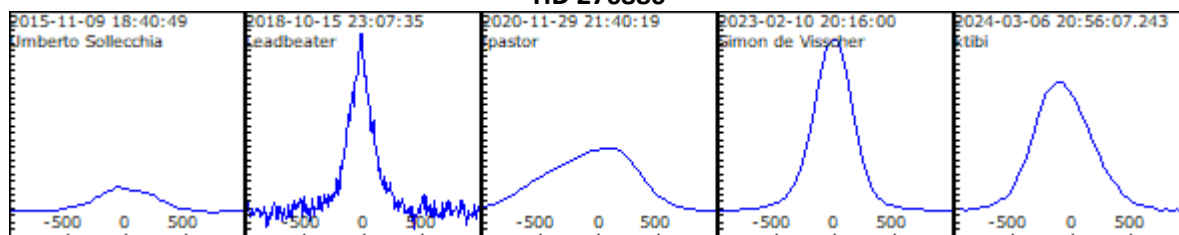
QY Gem



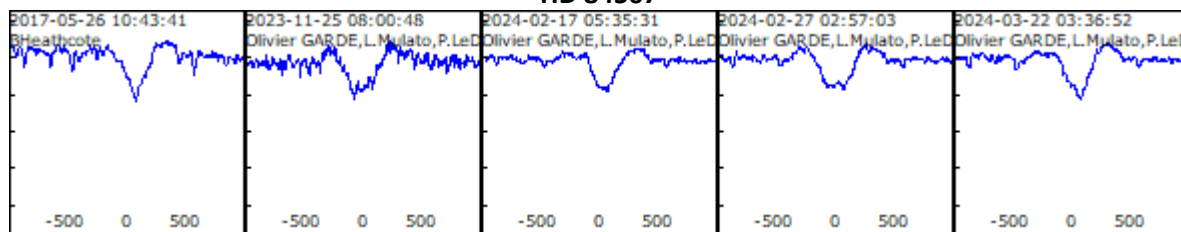
HD 174886



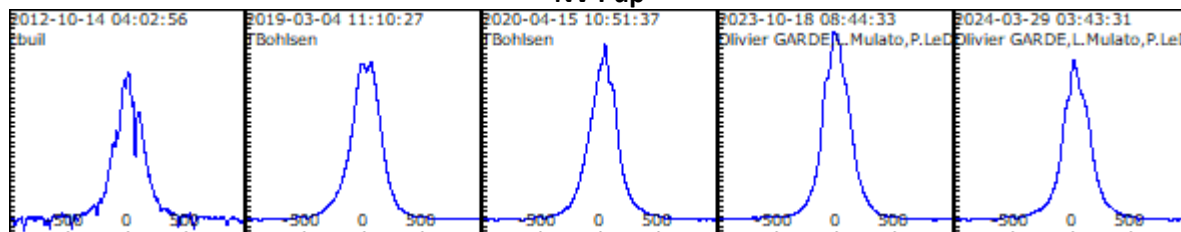
HD 276886

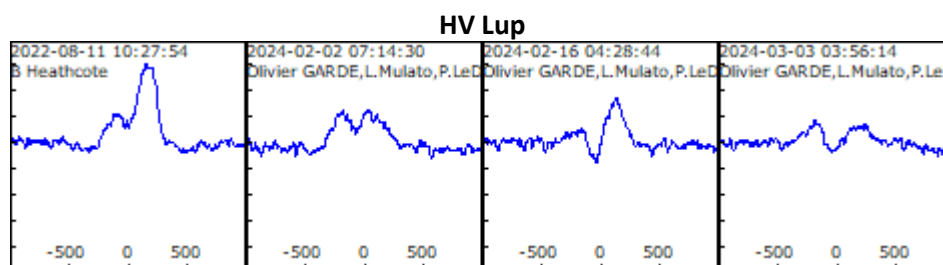


HD 84567



NV 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/>