

BeSS report – September 2017

Data compiled by Valérie Desnoux – H-alpha monitoring

- 112 stars were observed
- 17 Observers contributed this month
- 306 Spectra

Observers...

Observateur	Nb spec
Thizy	113
Li	37
Guarro Fló	28
GARDE	24
Buil	20
TERRY	18
Sawicki	15
de Bruin	10
Graham	8
Bohlsen	7
HOUPERT	6
Fosanelli	6
Rodda	6
Lester	3
Desnoux	3
BAZAN	1
Pollmann	1

Events of the month...

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

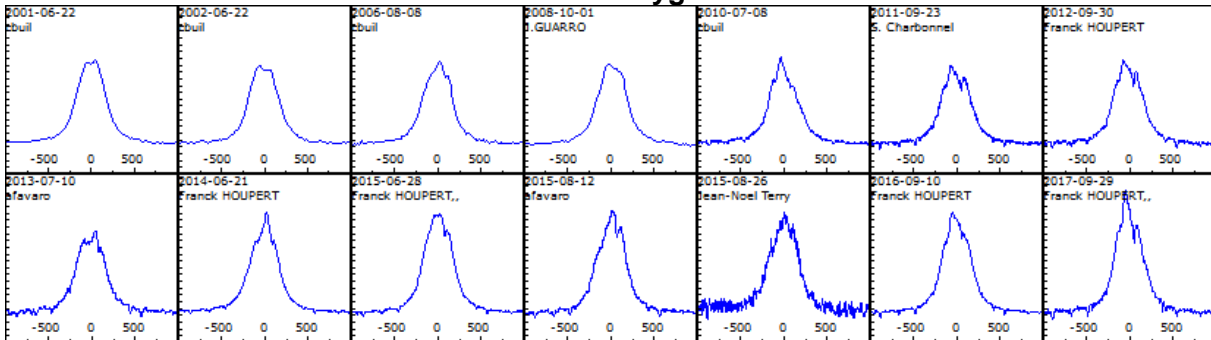
EE	ME	DE	EE	ME	DE
V2113 Cyg	CX Dra	V2119 Cyg	B1Vnnpe	B2.5Ve	B2Vne
14 Lac	59 Cyg	EW Lac	B3IVe	B1.5Vnne	B3IVpe
V408 Lac	18 And	Alfirk	B4e	B9Ve	B2IIIev
V357 Lac	10 Cas	ups cyg	B1Vnnpev	B9IIIe	B2Vne
AB Aur	HD 195554	phi Per	A0Vpe	B9Vne	B2Vpe
BK Cam	KY And	HD23552	B2.5Vne	B3IVe	B8Vne
31 Peg	V777 Cas	V421 Cep	B2IVe	B2Vne	B2IIIe
KX And	25 Ori	omi Cas	Bpe	B1Vpe	B5IIIe
	V4024 Sgr	V764 Cas		B2Ve	B2IIIne
	228 Eri	HD 24479		B2Vne	B9.5Ve
	CT Cam	eta PsA		B2Vne	B8Ve
	HD 23800	eps Cap		B1IVe	B3Vpe
	HD 163296	V2148 Cyg		A1Ve	B4IVpe
	HD 29373	HD 21362		B6Ve	B6Vne
	20 Vul	V442 And		B7Ve	B2IVe
	HD 163296	zet Tau		A1Ve	B2IVe
	V2136 Cyg			B4Ve	

Objects observed

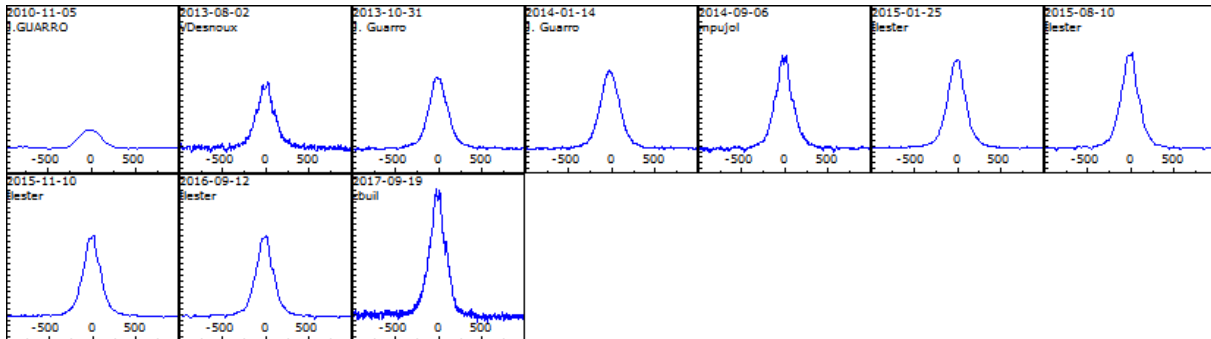
Classique						?	Herbig
gam Cas	V2119 Cyg	18 And	BK Cam	HD 21620	eta PsA	HD 26398	AB Aur
zet Tau	CX Dra	EW Lac	10 Cas	2 Ori	31 Peg	HD 189689	HD 163296
PLEIONE	V2113 Cyg	pi Aqr	60 Cyg	HD 20017	omi Aqr	HD 173371	V380 Cep
V442 And	59 Cyg	ALFIRK	V421 Cep	V549 Per	HD 196712	HD 203374	
tet CrB	28 Cyg	HD 194244	HD 195554	CT Cam	lam Eri	bet Scl	
ome Ori	20 Vul	14 Lac	ELECTRA	V357 Lac	13 Tau	UU PsA	
del Sco	iot Lyr	V2136 Cyg	HD 18552		ALCYONE	56 Eri	
QR Vul	bet Cyg B	ups Cyg	KX And	HD 29866	eps Cap	HD 29373	
SHELIK	64 Ser	psi Per	KY And	HD 23800	V2148 Cyg	gam Ara	
66 Oph	4 Aql	25 Peg	omi Cas	6 Cep	V2139 Cyg	V1493 Cyg	
chi Oph	HD 205551	omi And	V777 Cas	HD 21362	MEROPE	HD 13867	
48 Lib	V1339 Aql	eps Cas	V764 Cas	BD+62 285	V423 Lac	HD 21455	
omi Her	V4024 Sgr	HD 193182	25 Ori	HD 20899	NT Peg	228 Eri	
V532 Lyr	HD 22780	phi Per	HD 208682	eps Tuc	V408 Lac	eta Ori	
53 Boo	LQ And	HD 23552	HD 24479	HD 30677	HD 199218	V1369 Ori	
zet Oph	2 Cet	kap Aql	HD 21641				

Emission increase since last observations

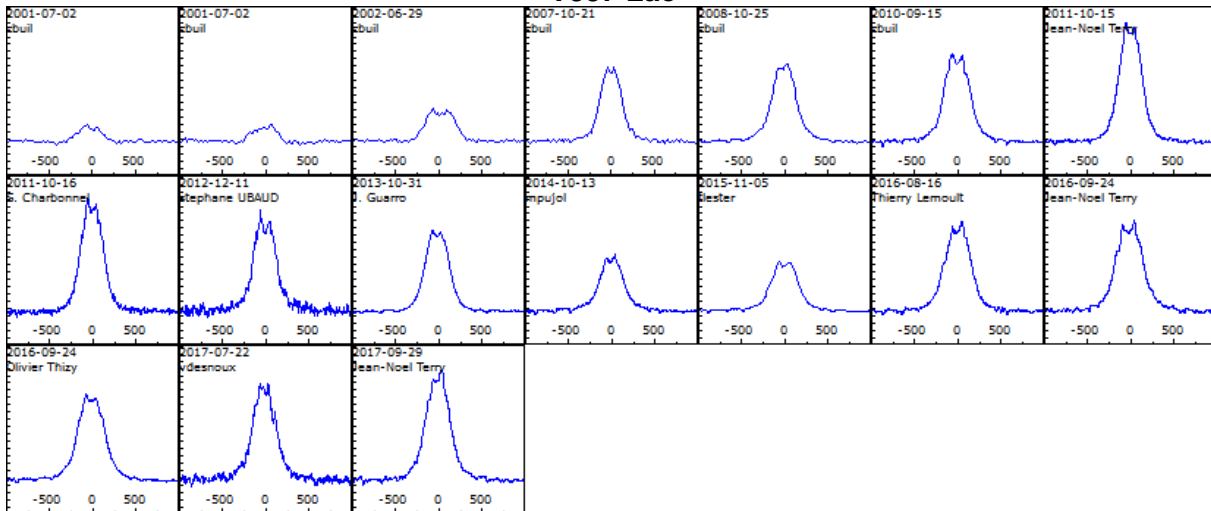
V2113 Cyg



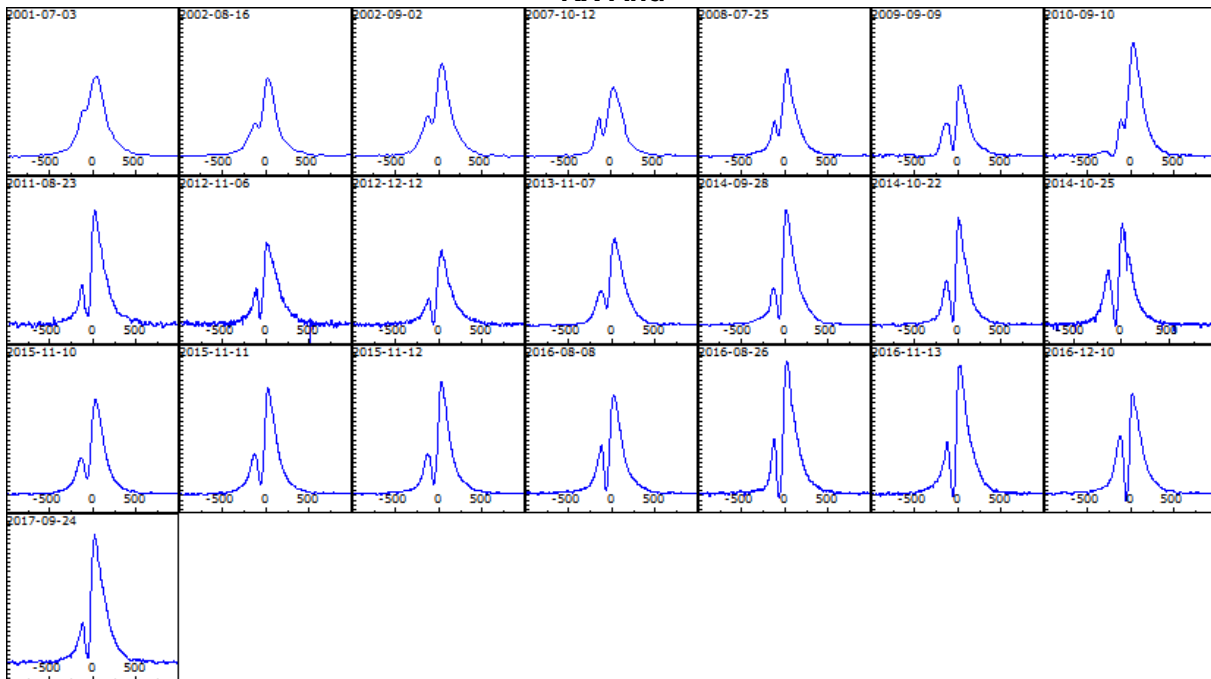
V408 Lac



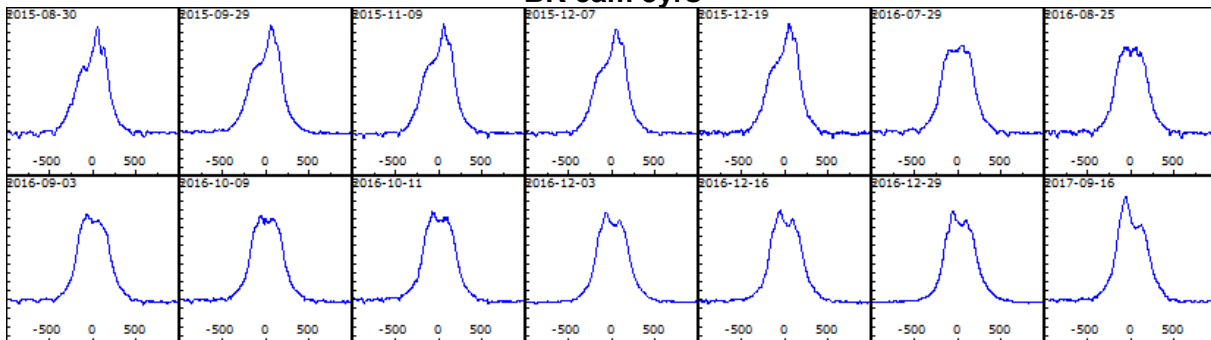
V357 Lac



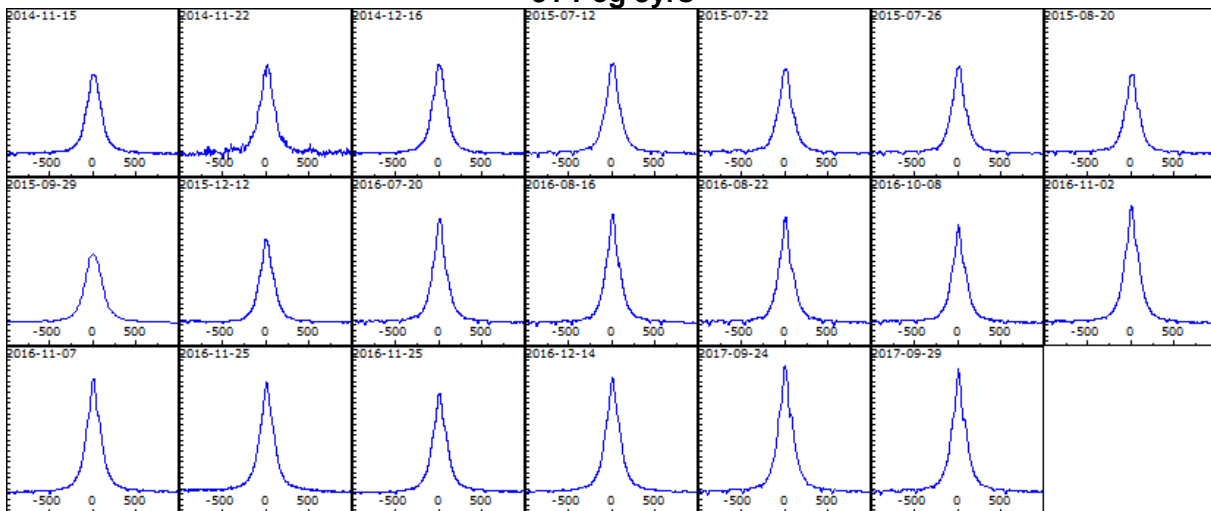
KX And



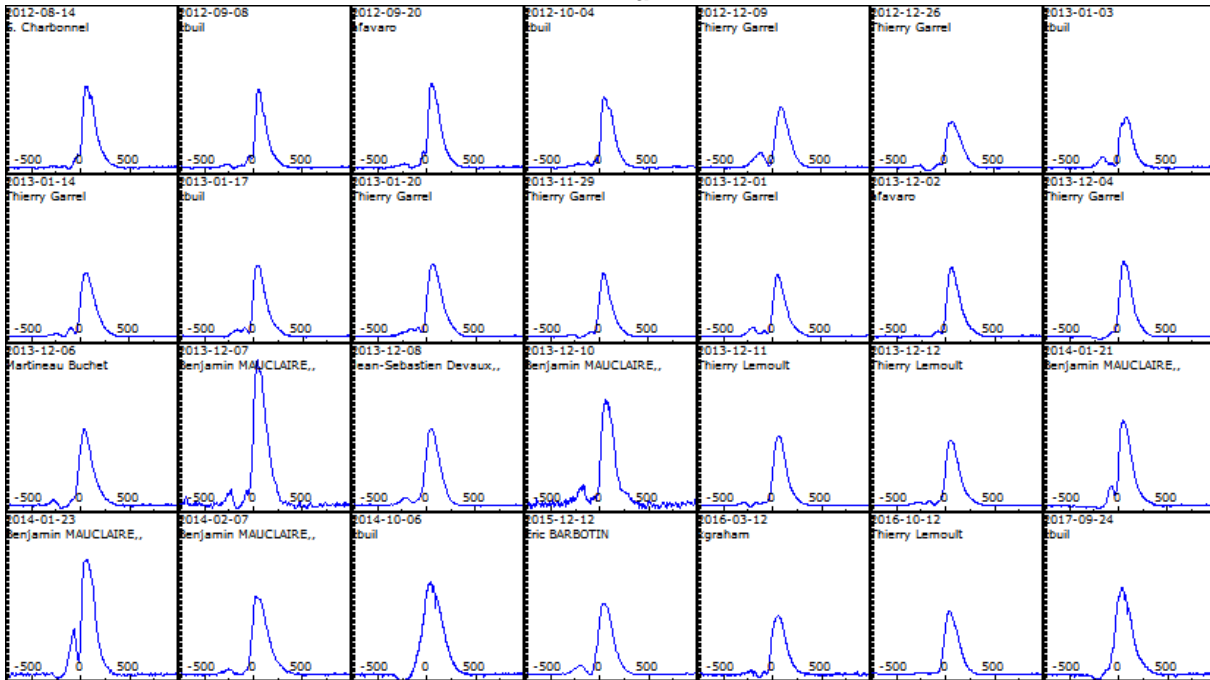
BK cam 3yrs



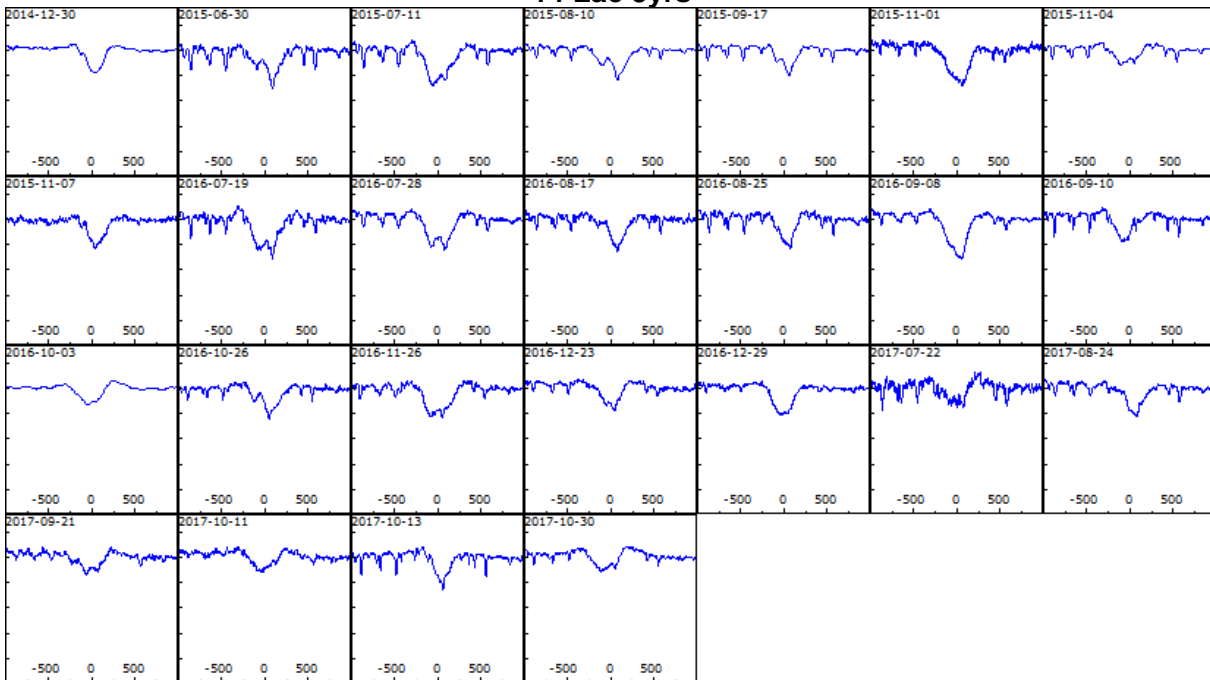
31 Peg 3yrs



AB Aur

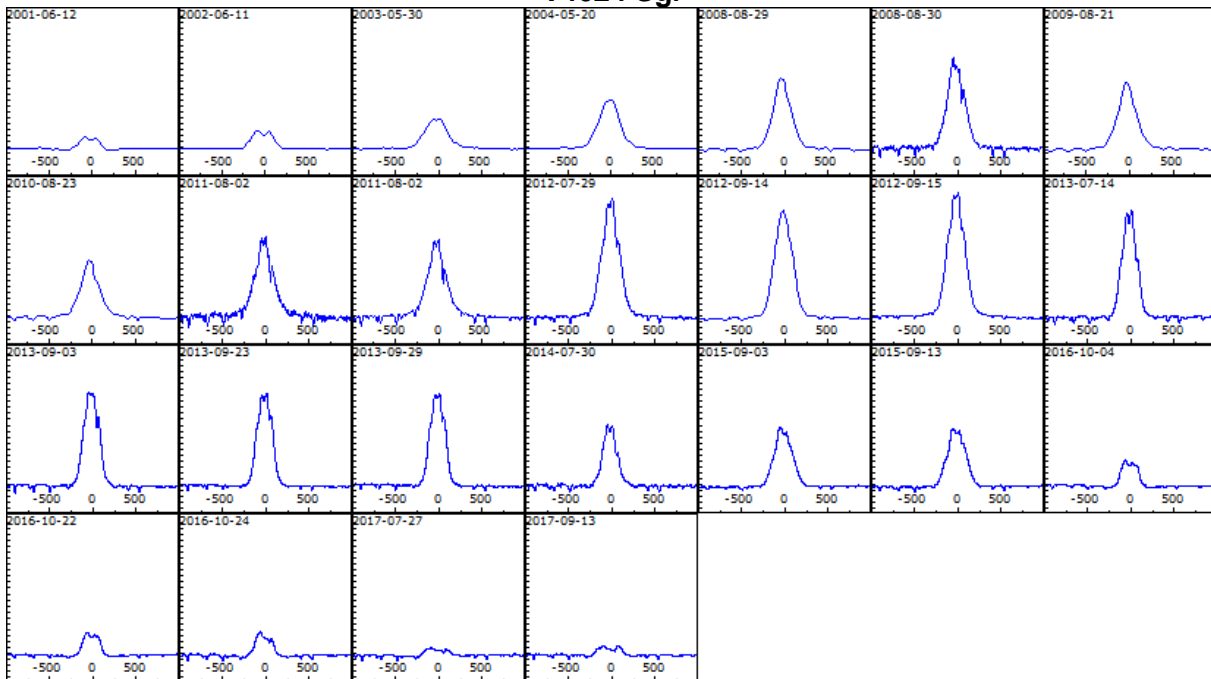


14 Lac 3yrs

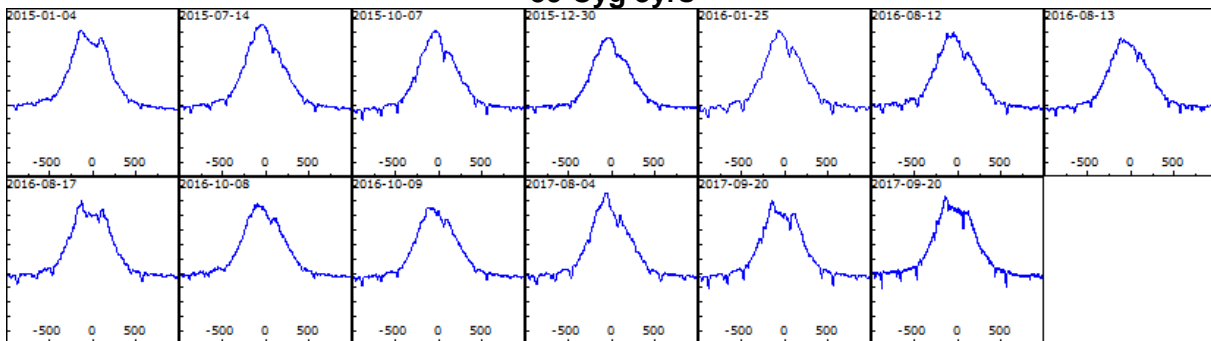


Moderate evolutions of H-alpha line

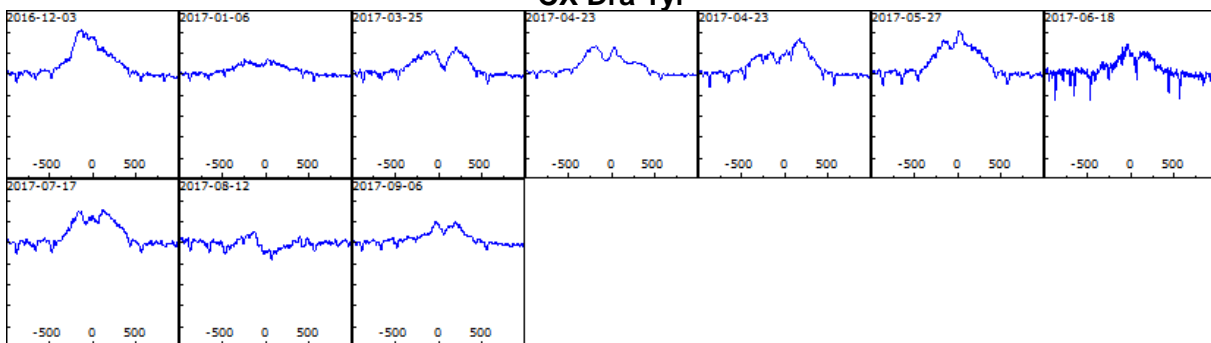
V4024 Sgr



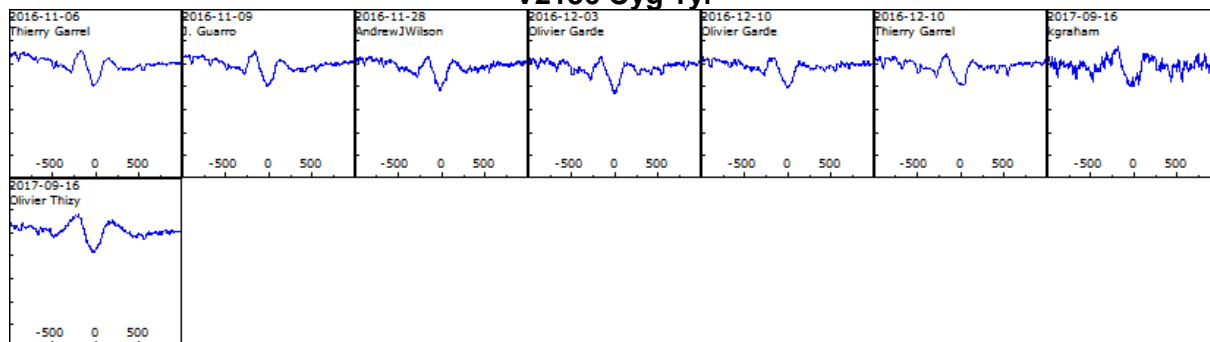
59 Cyg 3yrs



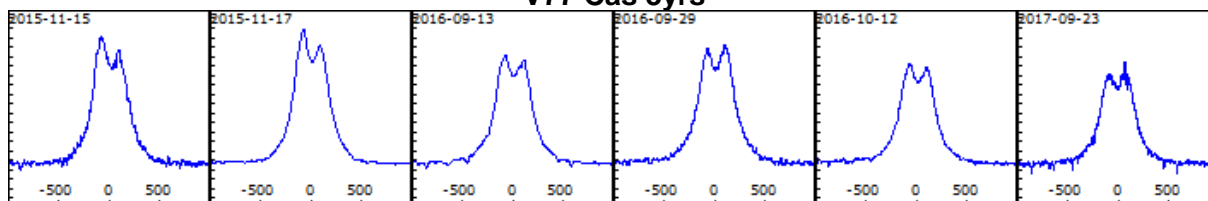
CX Dra 1yr



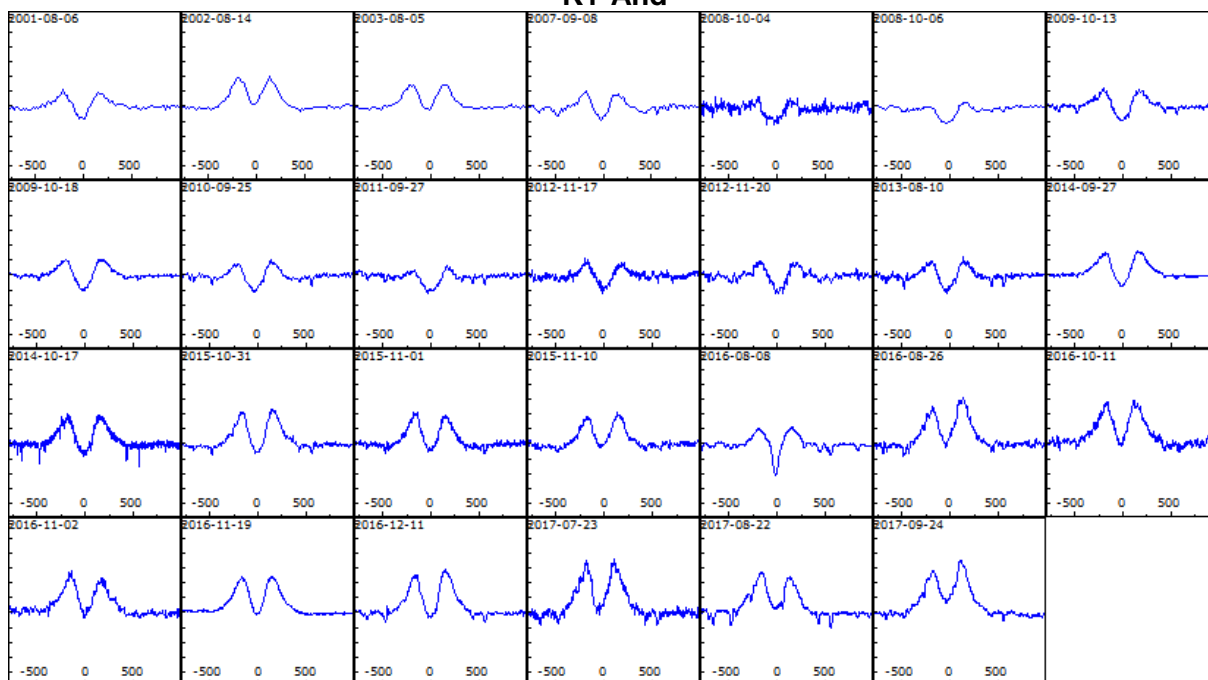
V2136 Cyg 1yr



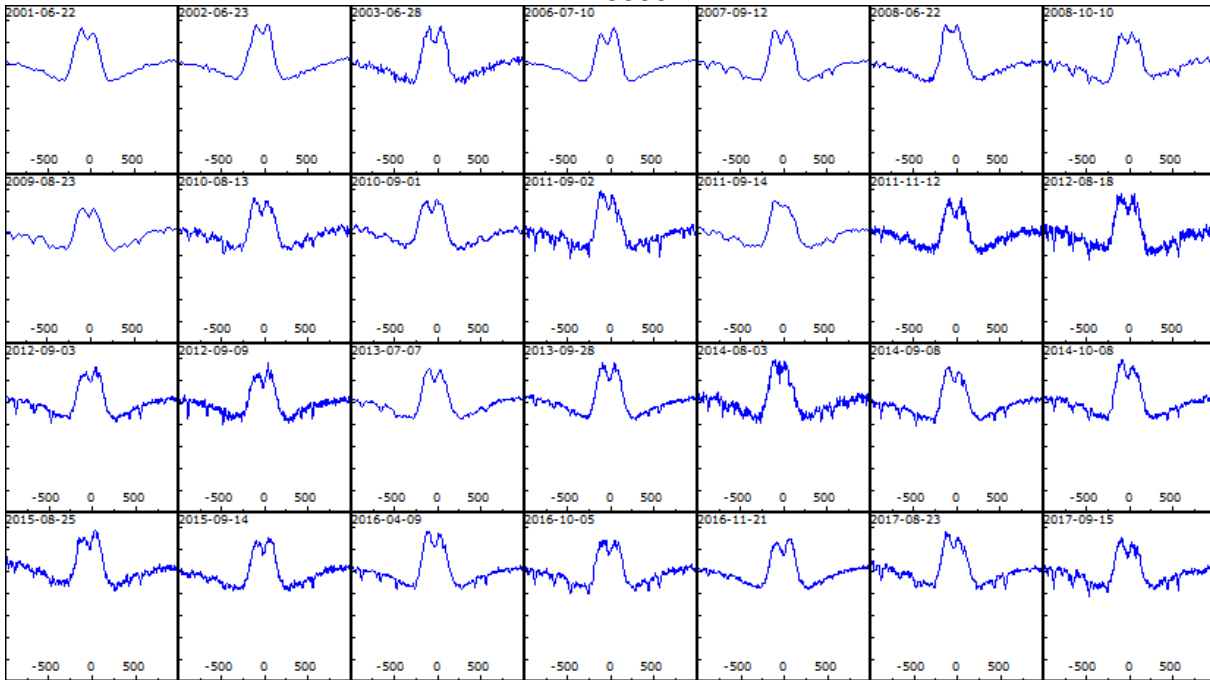
V77 Cas 3yrs



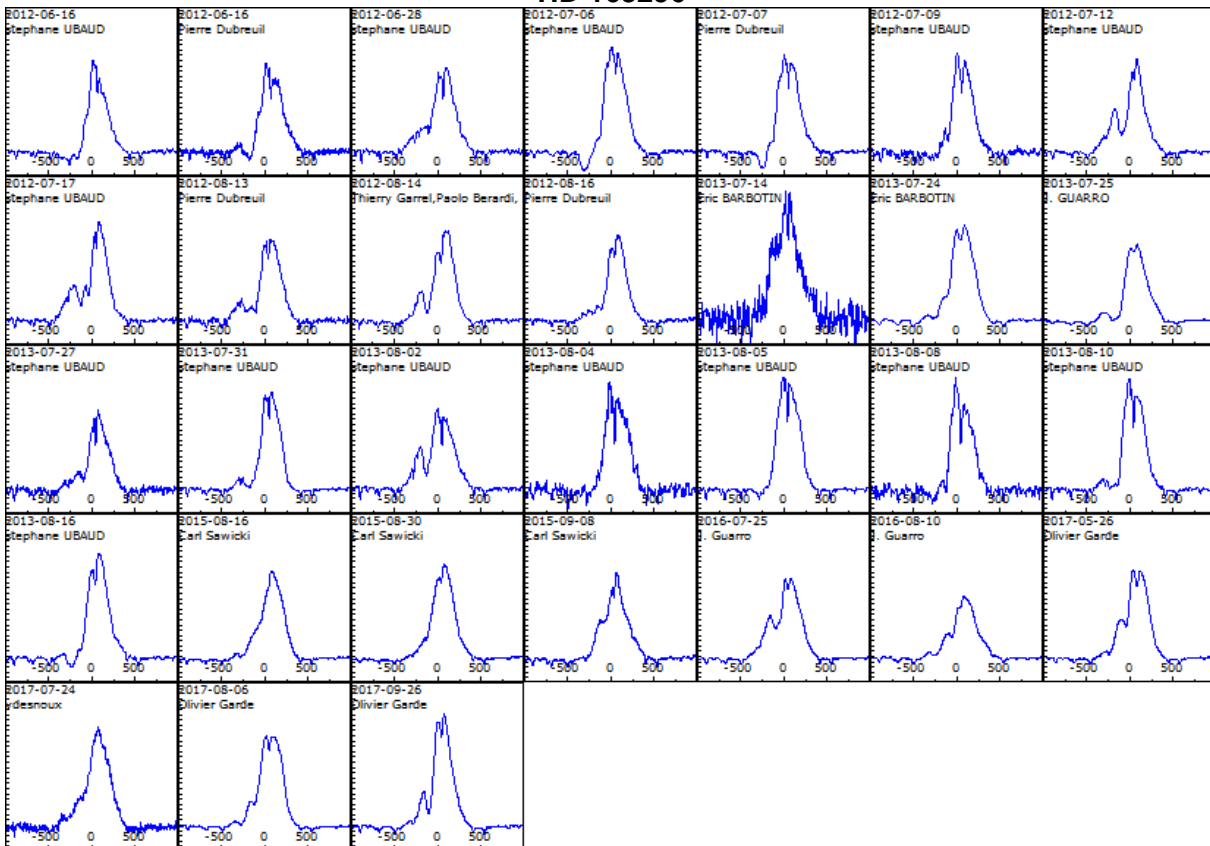
KY And



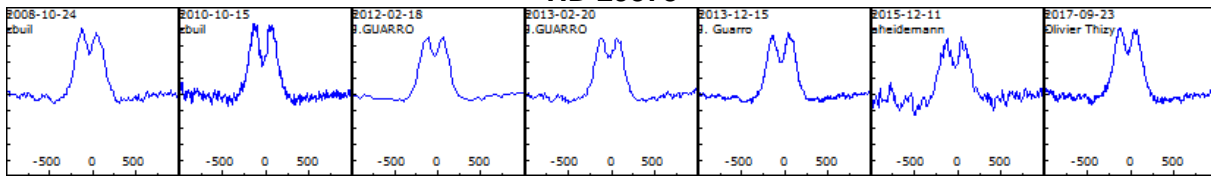
HD 195554



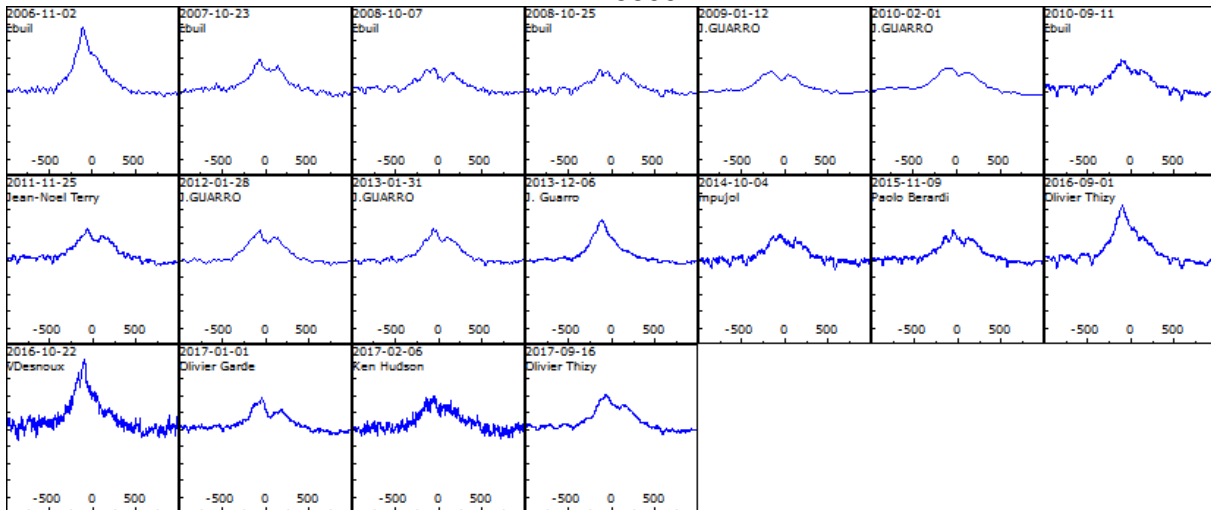
HD 163296



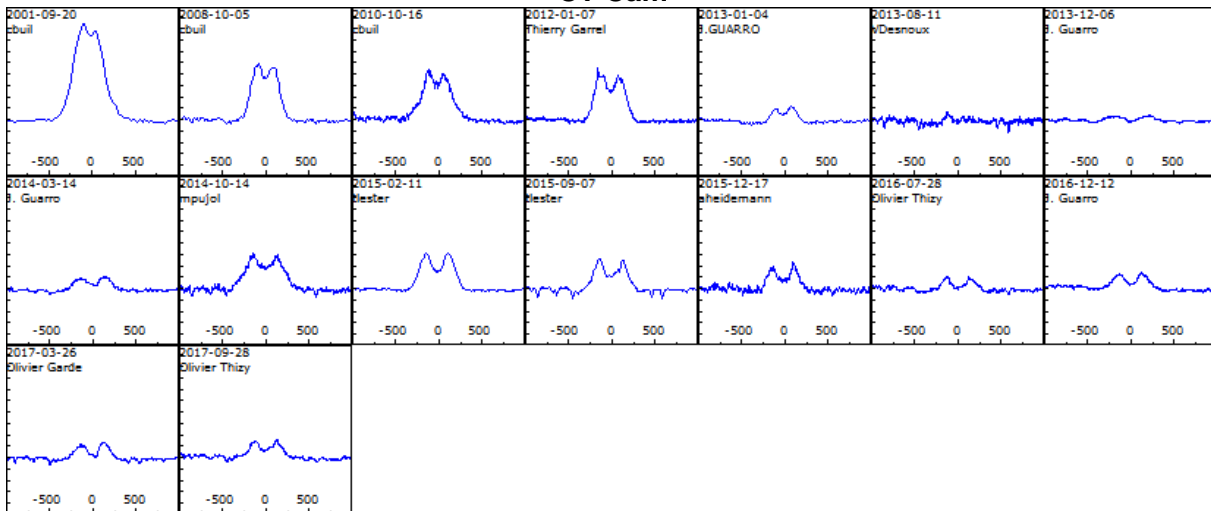
HD 29373



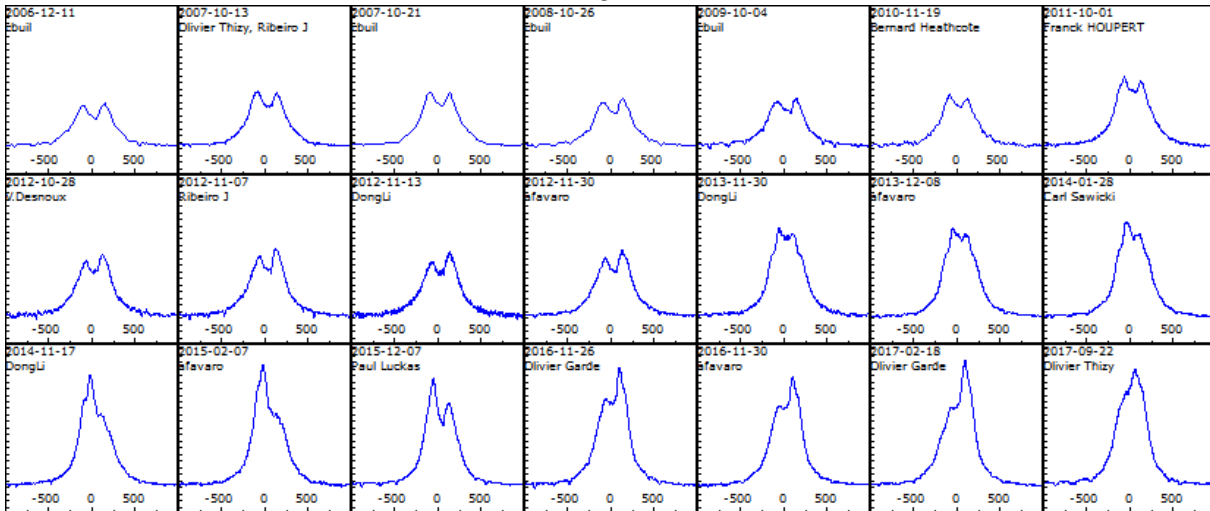
HD 23800



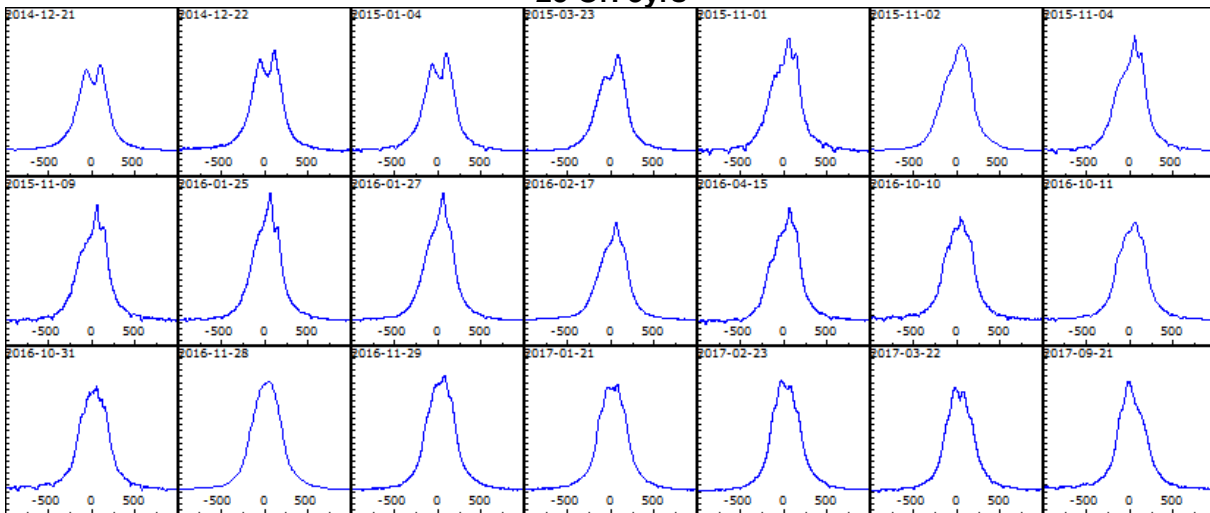
CT Cam



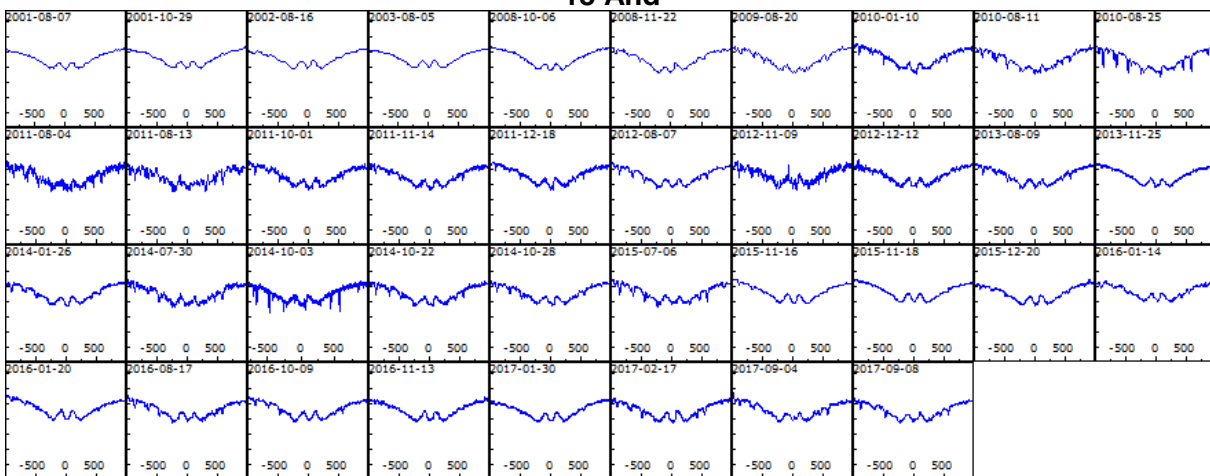
228 Eri



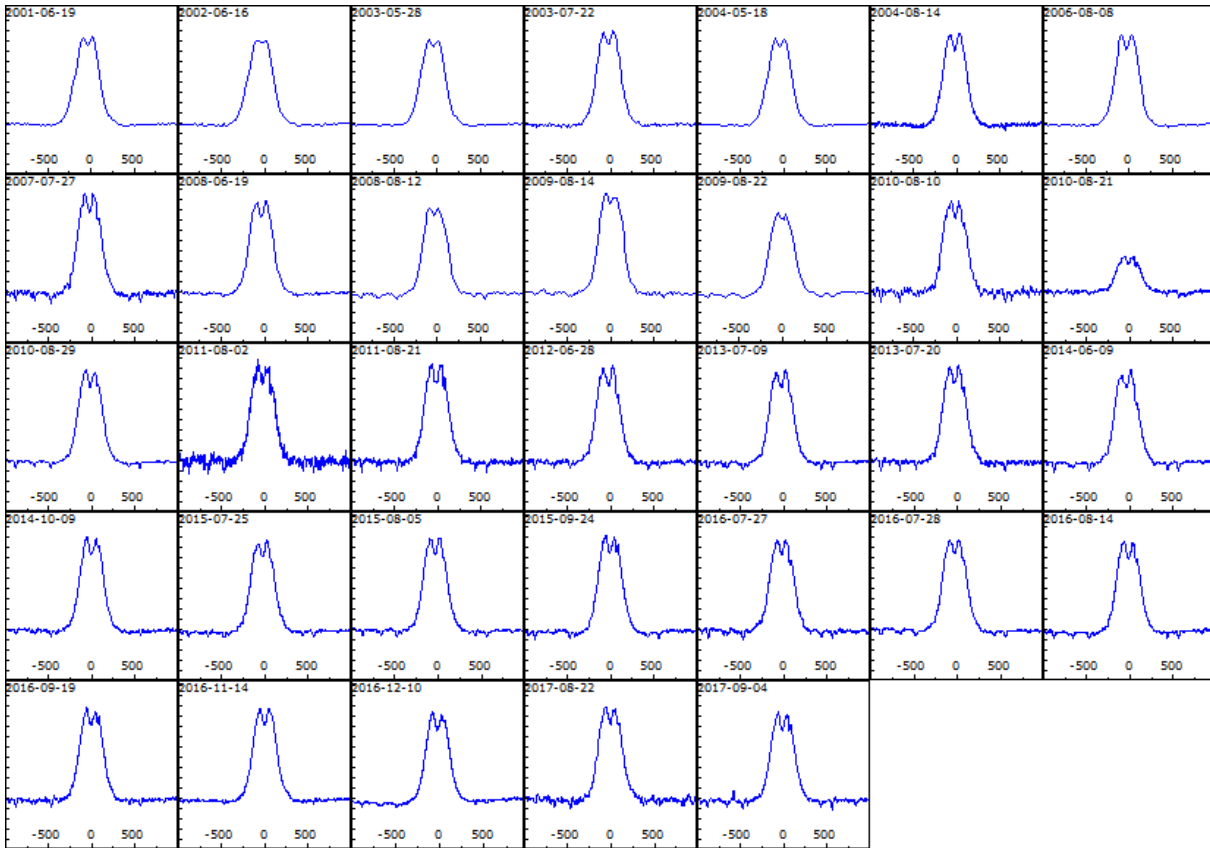
25 Ori 3yrs



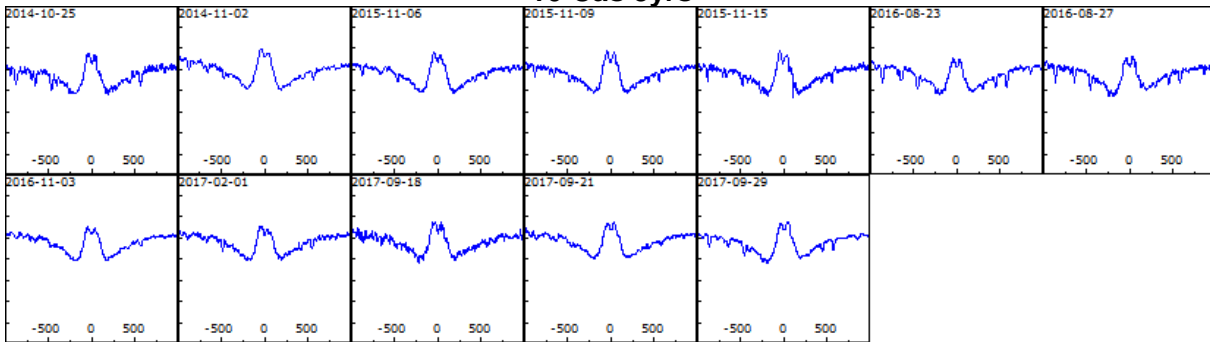
18 And



20 Vul

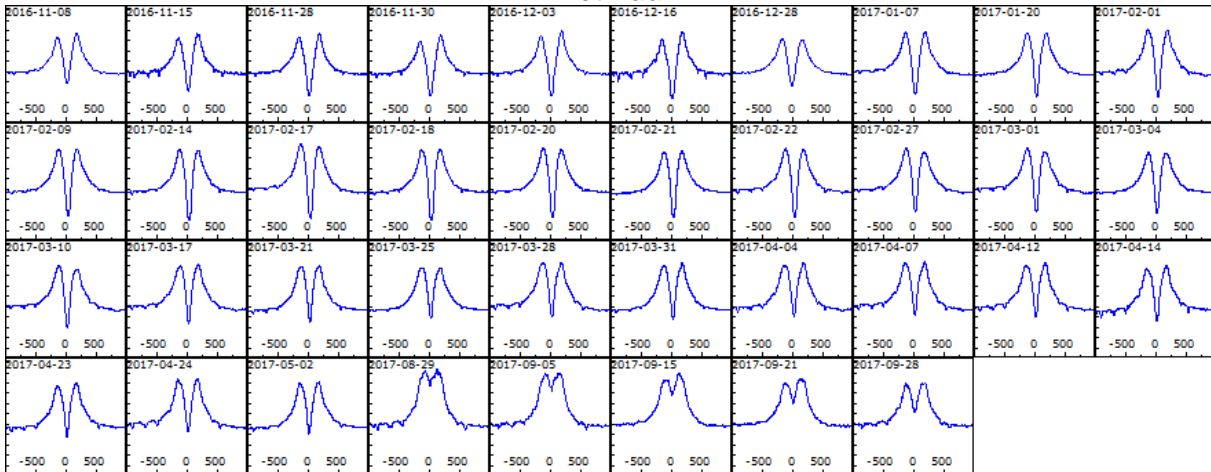


10 Cas 3yrs

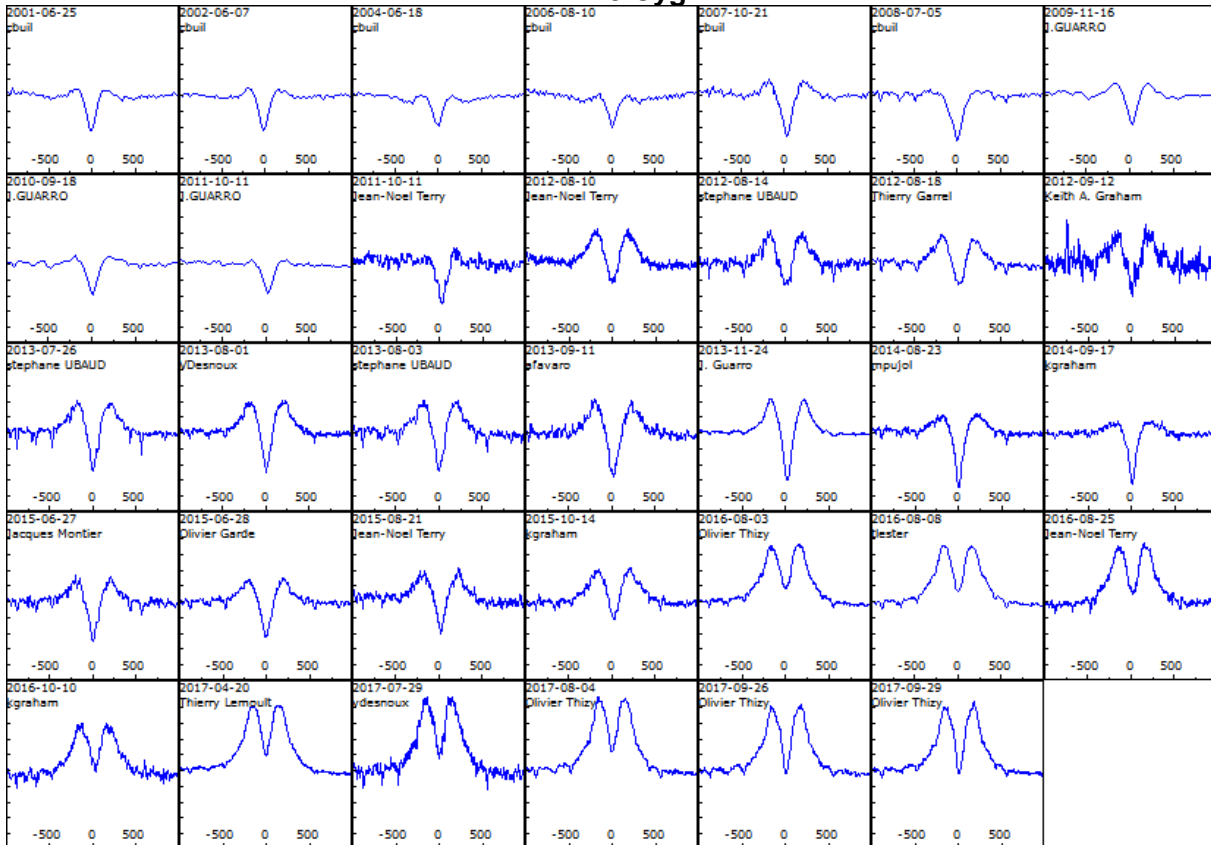


Emission decrease of H-alpha line

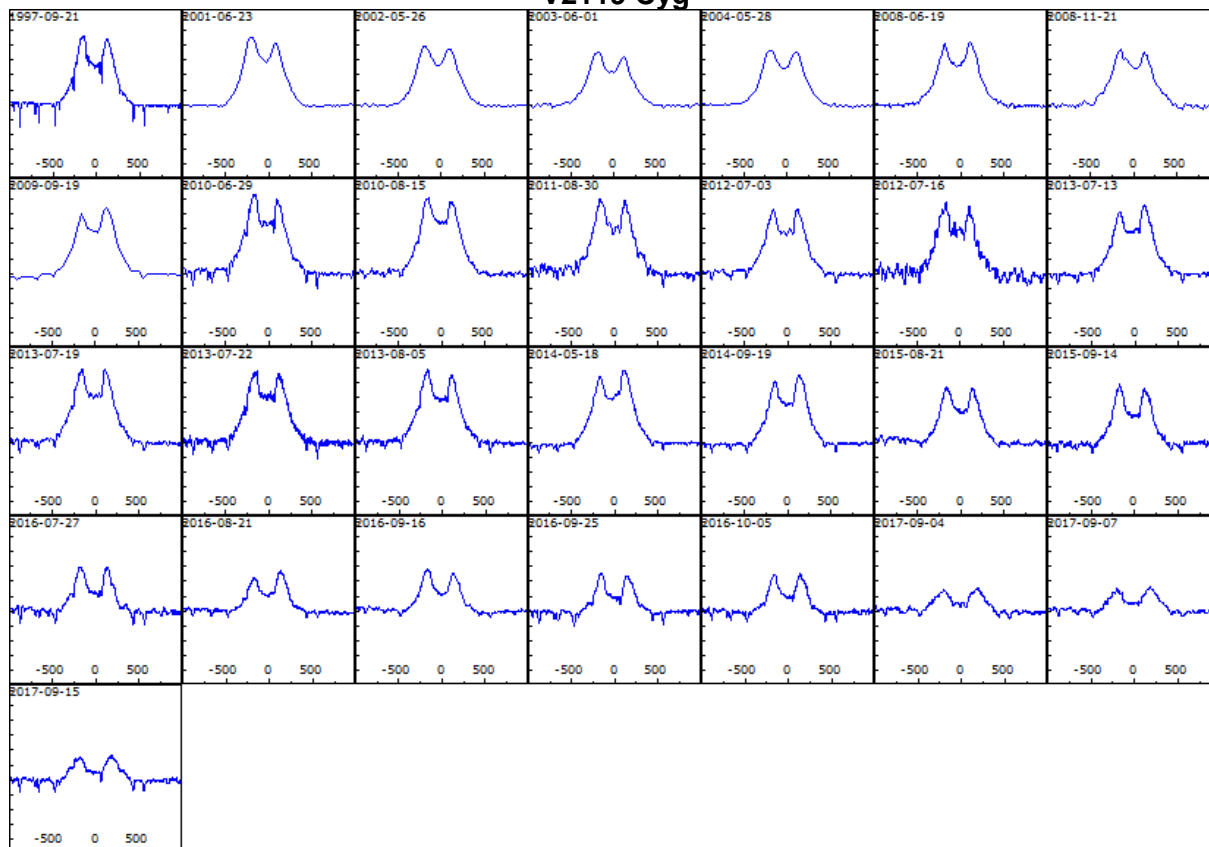
Zet Tau



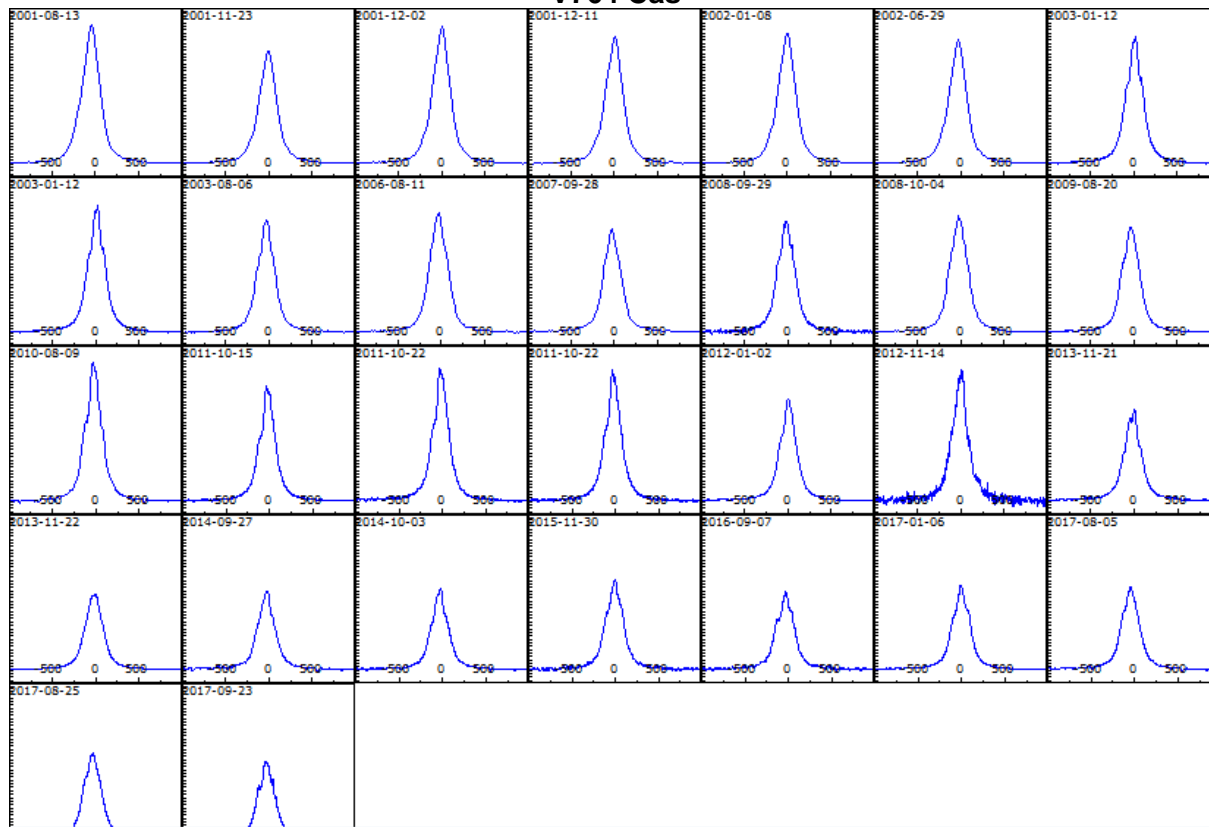
V2148 Cyg



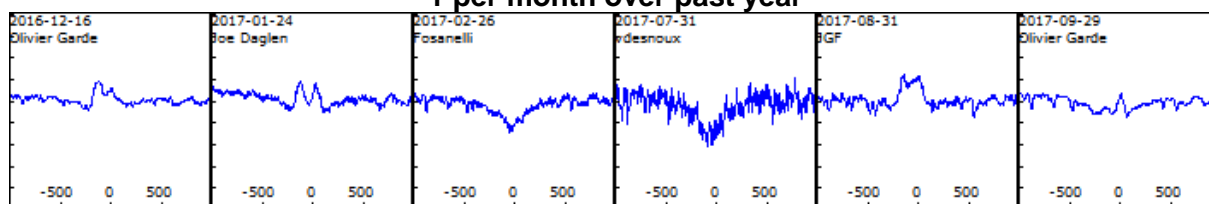
V2119 Cyg



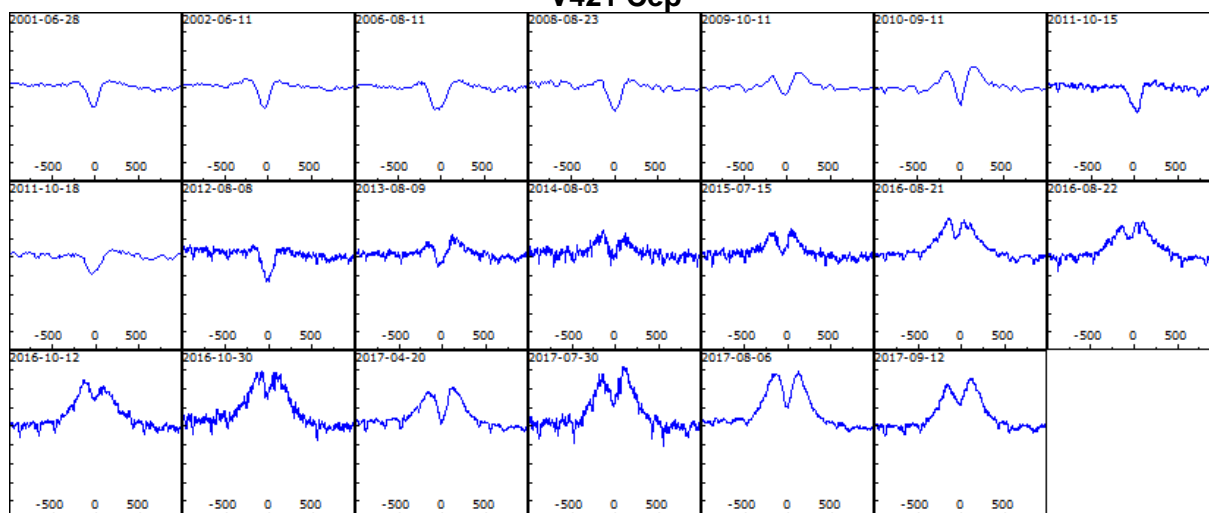
V764 Cas



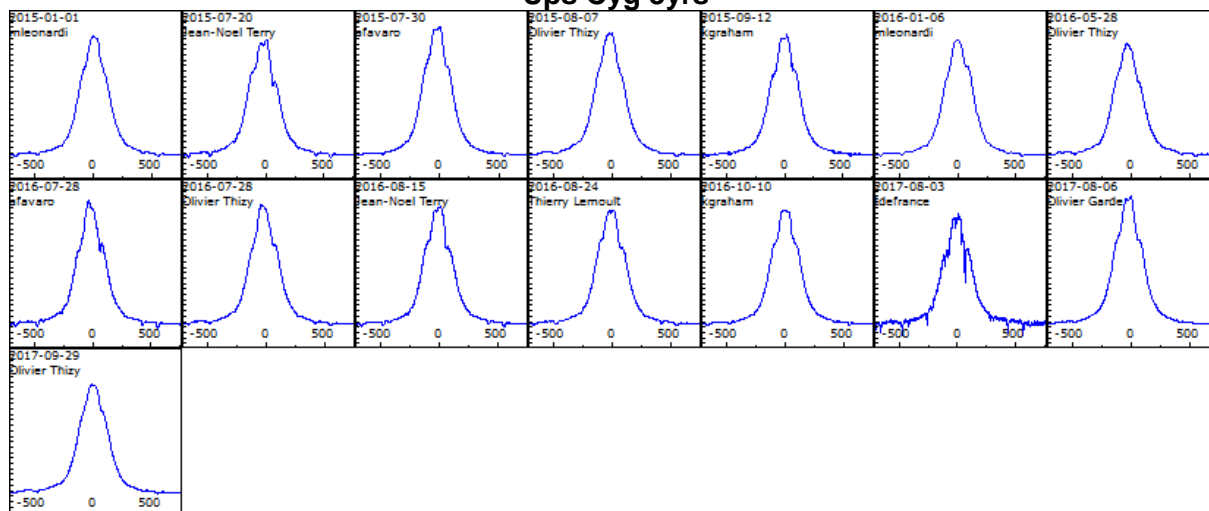
V442 And 1 per month over past year



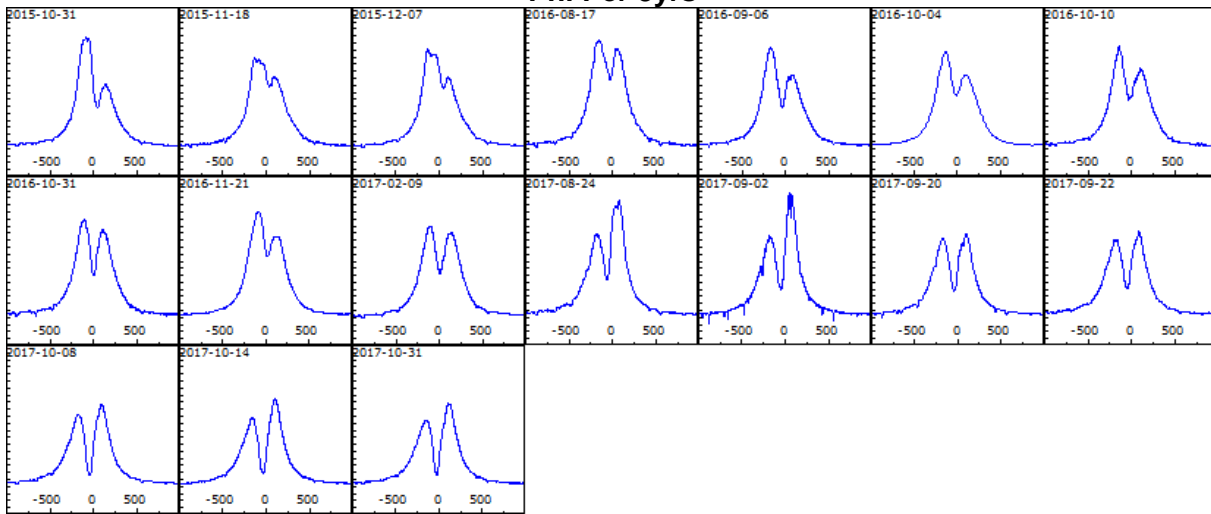
V421 Cep



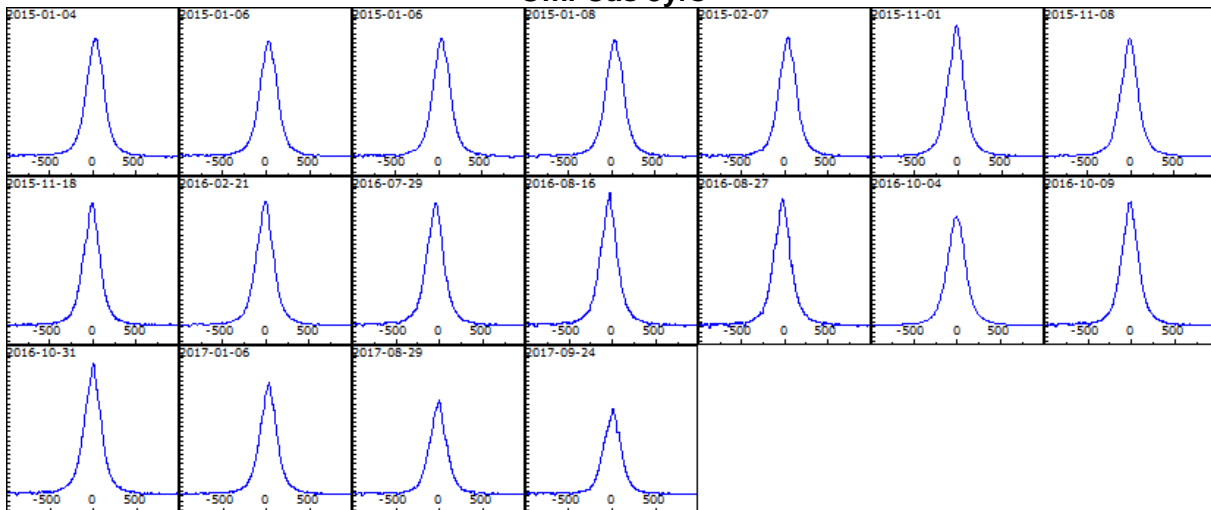
Ups Cyg 3yrs



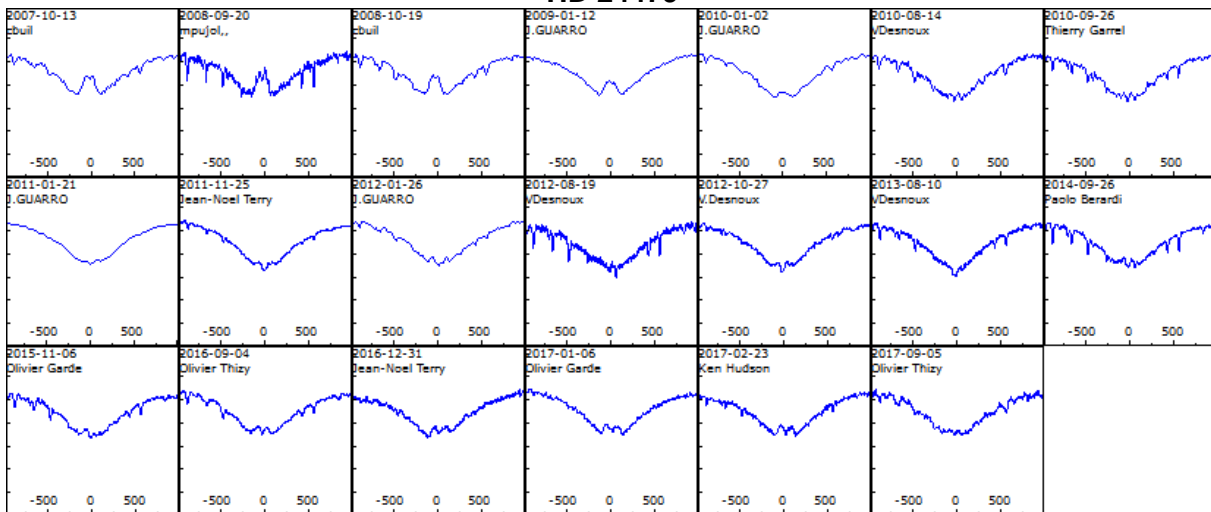
Phi Per 3yrs



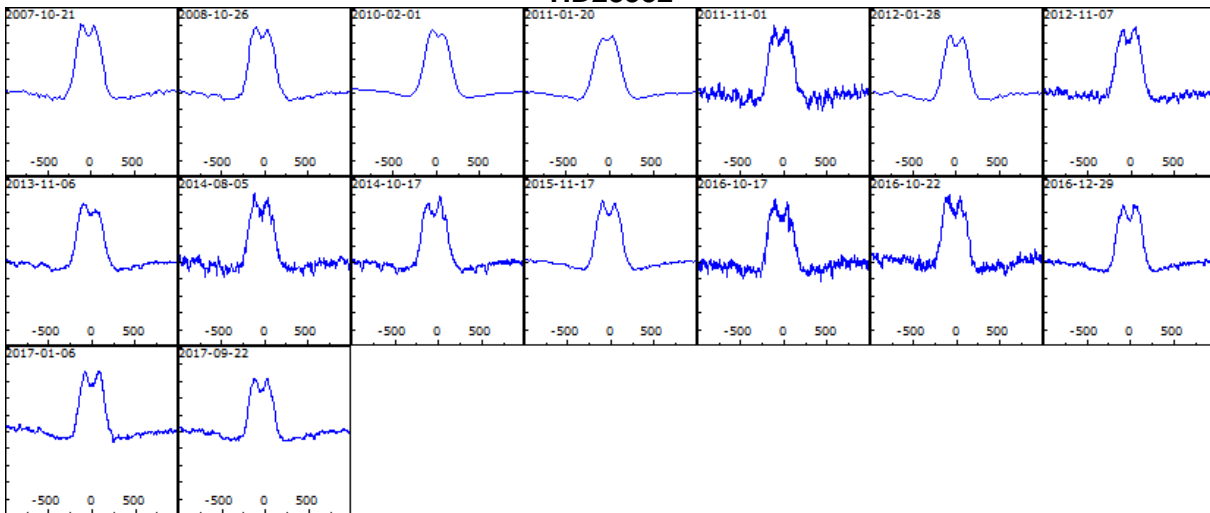
Omi Cas 3yrs



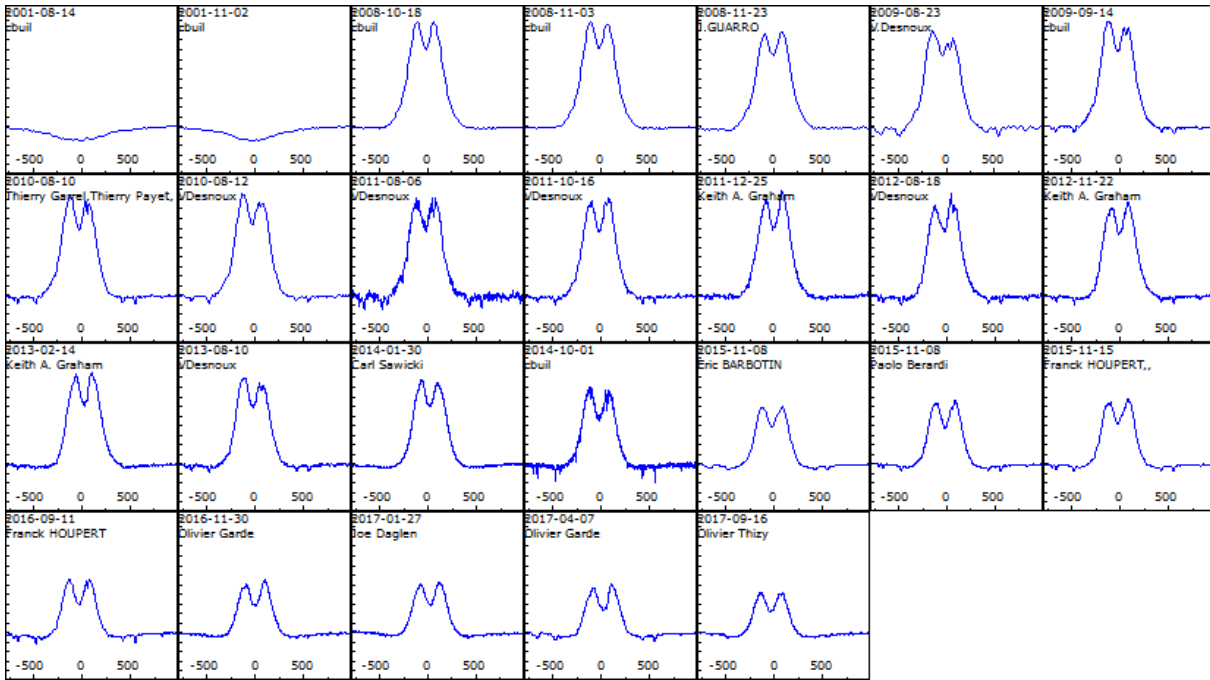
HD 24479



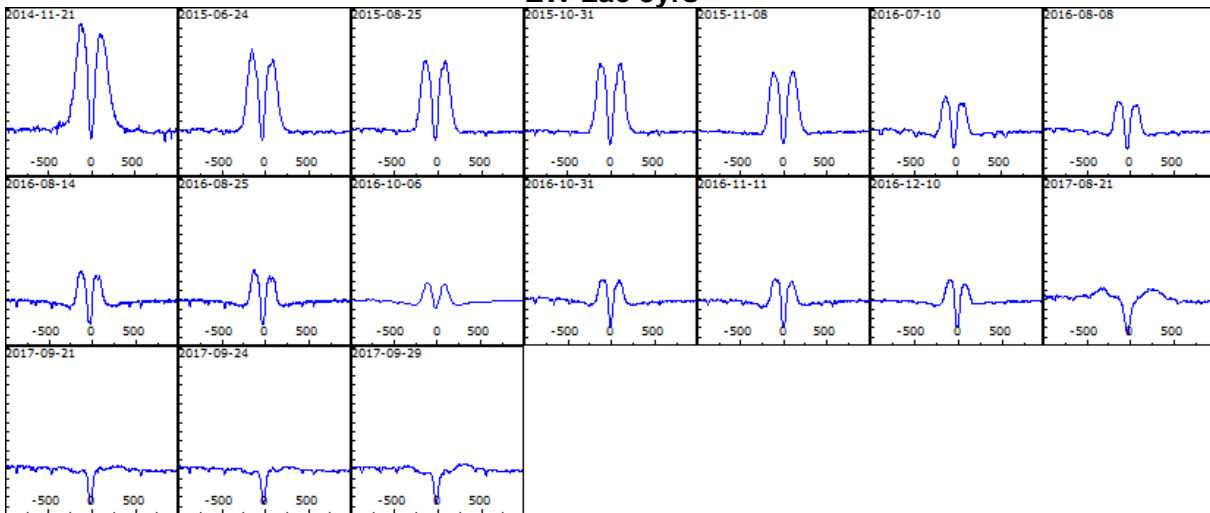
HD23552



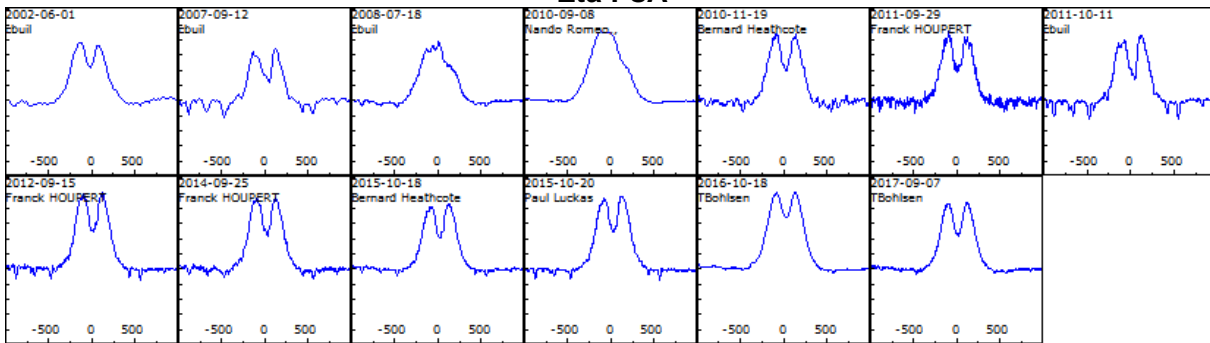
HD 21362



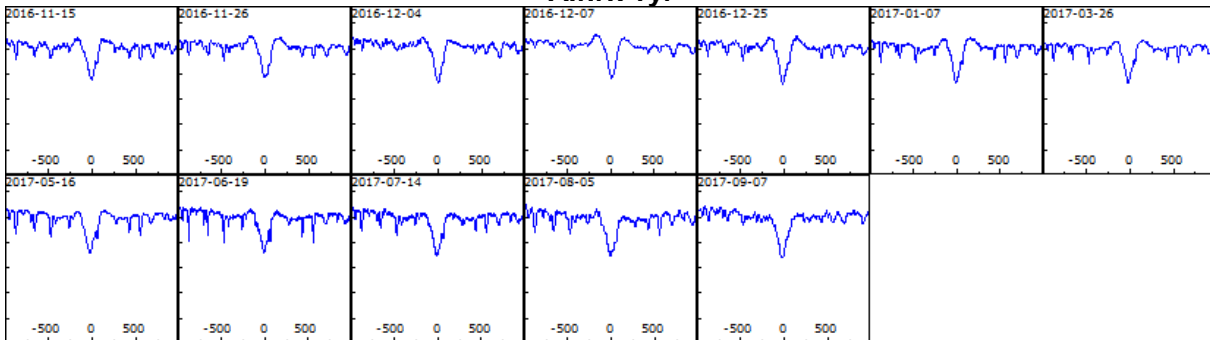
EW Lac 3yrs



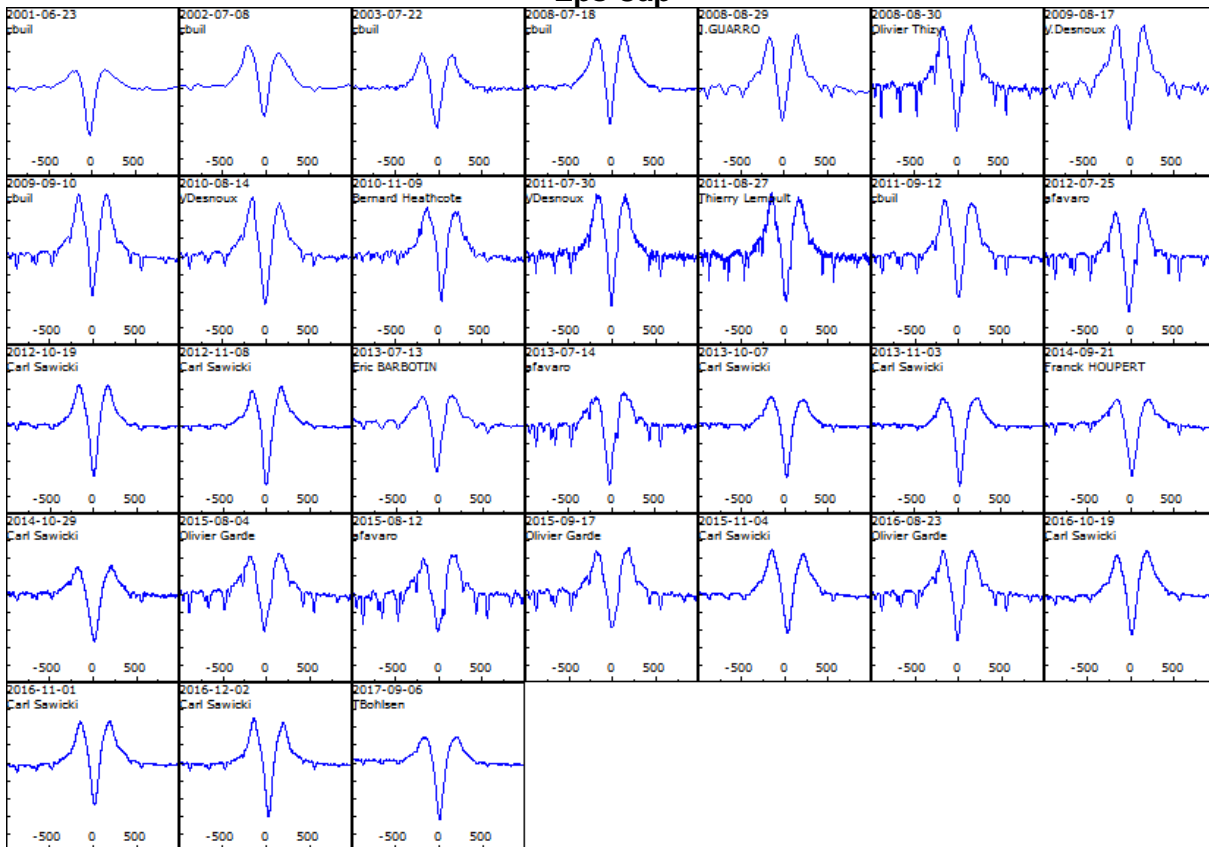
Eta PsA



Alfirk 1yr



Eps Cap



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 on a region around 6580 angströms. The x-axis is converted into Doppler velocity centered on H-alpha.

If too many spectra of the object are available, a shorter period of observation is displayed and thus the length period is indicated (1yr, 3yrs).

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

Author

Valérie Desnoux

Valerie.desnoux@free.fr

Aras Site at <http://www.astrosurf.com/aras/>

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

ArasBeAM portal at <http://arasbeam.free.fr/>