

# BeSS report – July 2018

Data compiled by Valérie Desnoux – H-alpha monitoring

- 120 stars were observed
- 20 Observers contributed this month
- 279 Spectra

## Observers...

Observateur	Nb spec
Thizy	80
Desnoux	48
Sawicki	28
Lecocq	17
Bryssinck	16
bertrand	12
GARDE	12
Buil	12
Guarro Fló	11
Charbonnel	8
KREIDER	8
Dejean	7
Gurney	6
UBAUD	5
BAZAN	3
Bohlsen	2
GUEGAN	1
Le Dû GARDE	1
Fosanelli	1
de Bruin	1
<b>Total général</b>	<b>279</b>

## Events of the month...

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

EE	ME	DE	EE	ME	DE
V1578 Cyg	PLEIONE	V378 And	B7VA5Ve	B8IVev	B3Vpe
V718 Sco	V442 And	18 And	A8IIIe	B2IVe	B9Ve
14 Lac	CX Dra	V2136 Cyg	B3IVe	B2.5Ve	B4Ve
12 Vul	phi And	HD 195407	B2.5Ve	B7Ve	B0IVpe
phi Per	V2113 Cyg	V818 Cas	B2Vpe	B1Vnnpe	B2Vne
V813 Cas	7 Vul	V396 Vul	B8e	B5Vne	B2Vnne
31 Peg	lam Cyg	kap Aql	B2IVe	B5Ve	B0.5IIIe
V787 Cas	ups Sgr	HD 225095	B2IIIe	Bpshe	B2IVne
V780 Cas	HD 20134	HD 224905	B1Vpe	B2.5IVe	B1Vne
HD 237091	V2163 Cyg	HD 18877	B1Vnnpe	B4e	B7IIIe
V1362 Cyg	Menkhib	V448 Sct	B5IIne	O7.5IIIe	B1.5IVe
V2144 Cyg	V473 Per	V1437 Aql	B5Ve	B0IIIpe	B5IVe
HD 228535	V3903 Sgr	HD 181231	B0.5IIIe	B6IIIe	B5IVe
V420 Cep		HD 212666	B2Ve		B3e
BD+62 271		V2172 Cyg	B8Ve		B2e
BD+38 4093		alf Ara	O9Ve		B2Vne
HD 355402		V2018 Cyg	B1Ve		B7VA5Ve
		V1322 Cyg			A2IVe

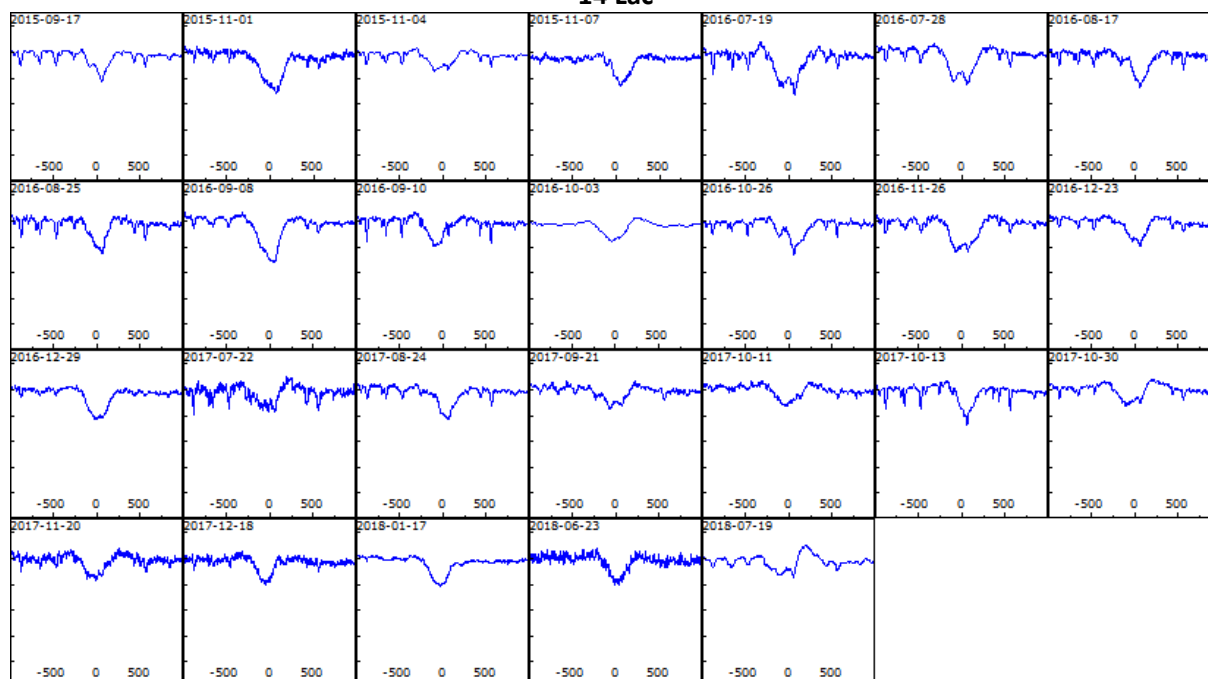
## Objects observed

Classique							B[e]	Herbig
gam Cas	28 Cyg	omi And	HD 9612	V439 Cep	BD+50 3180	BD+61 2494	EM* MWC 56	V1578 Cyg
PLEIONE	7 Vul	12 Vul	V818 Cas	HD 224905	HD 339483	BD+62 2158	EM* MWC 342	HD 163296
V442 And	64 Ser	ups Sgr	V408 Lac	HD 189689	HD 190150	BD+61 2380	EM* MWC 349	V718 Sco
tet CrB	4 Aql	HD 195407	V396 Vul	V473 Per	HD 212666	EM* AS 521	EM* MWC 300	V1295 Aql
kap Dra	HD 205551	phi Per	HD 20134	V780 Cas	HD 216044	V2018 Cyg		HD 203024
del Sco	V378 And	25 Cyg	V787 Cas	HD 15963	V810 Cas	EM* MWC 1030		V628 Cas
QR Vul	lam Cyg	16 Peg	HD 206773	HD 237091	HD 228535	BD+46 3022		
SHELIAC	V4024 Sgr	V2155 Cyg	V2163 Cyg	HD 18877	V584 Per	HD 228658		
66 Oph	HD 22780	V813 Cas	kap Aql	HD 174105	V420 Cep	BD+54 2718		
48 Lib	18 And	BD+60 2600	11 Cam	V448 Sct	BD+62 271	BD+47 3148		
omi Her	pi Aqr	KX And	HD 21641	V1437 Aql	V2172 Cyg	V1322 Cyg		
53 Boo	ALFIRK	V777 Cas	HD 21620	HD 173530	V3903 Sgr	KT Cyg		
HD 168957	HD 194244	HD 201522	HD 225095	HD 181231	V372 Sge	BD+60 2584		
CX Dra	QT Ser	HD 169033	LZ Del	HD 173371	alf Ara	HD 187350		

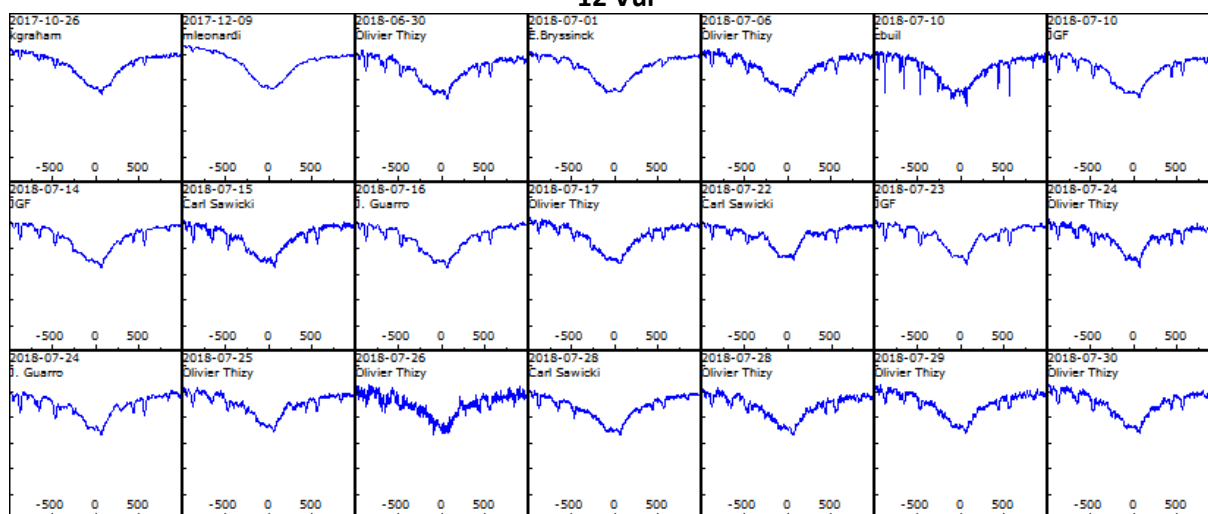
phi And	14 Lac	31 Peg	V817 Cas	V1362 Cyg	BD+38 4093	6 Cep
HD 177648	V2136 Cyg	BD+46 3087	Menkhib	V1466 Aql	gam Ara	V423 Lac
V2113 Cyg	11 Cyg	HD 228860	EM Cep	V2144 Cyg	HD 355402	ups Cyg
V923 Aql						

## Emission increase since last observations

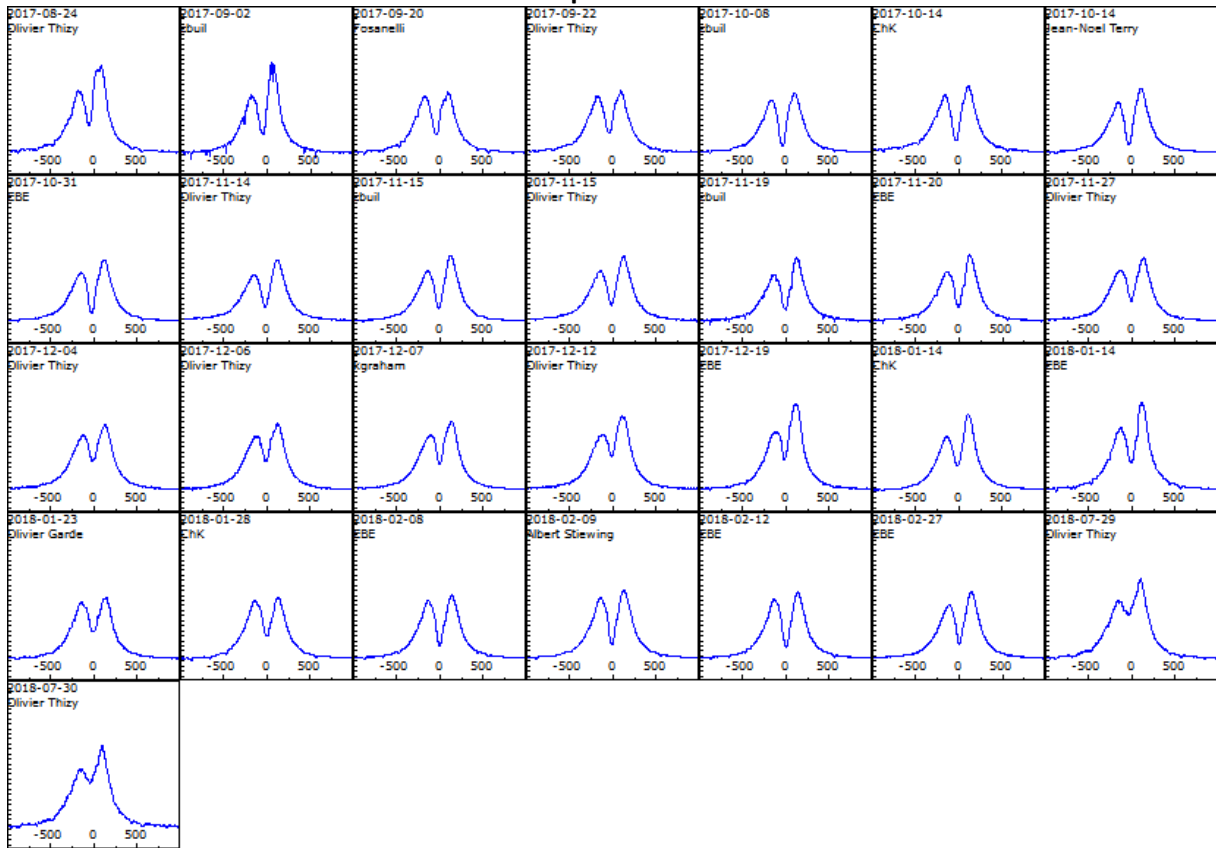
14 Lac



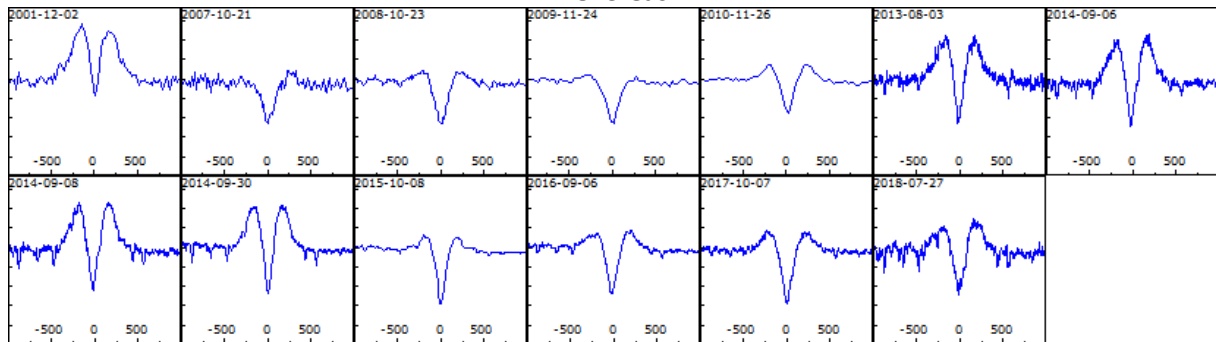
12 Vul



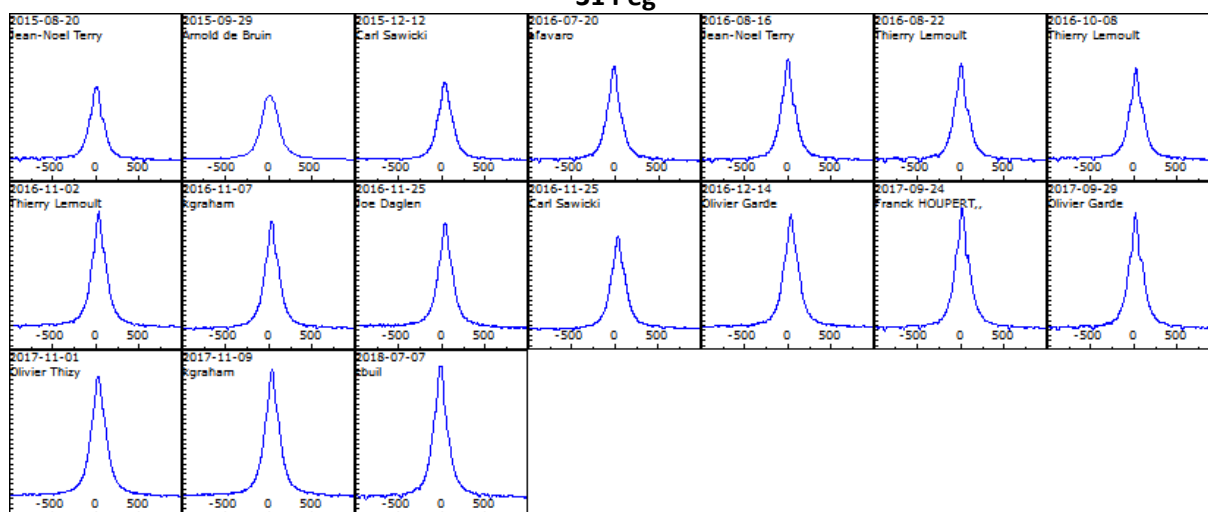
### phi Per



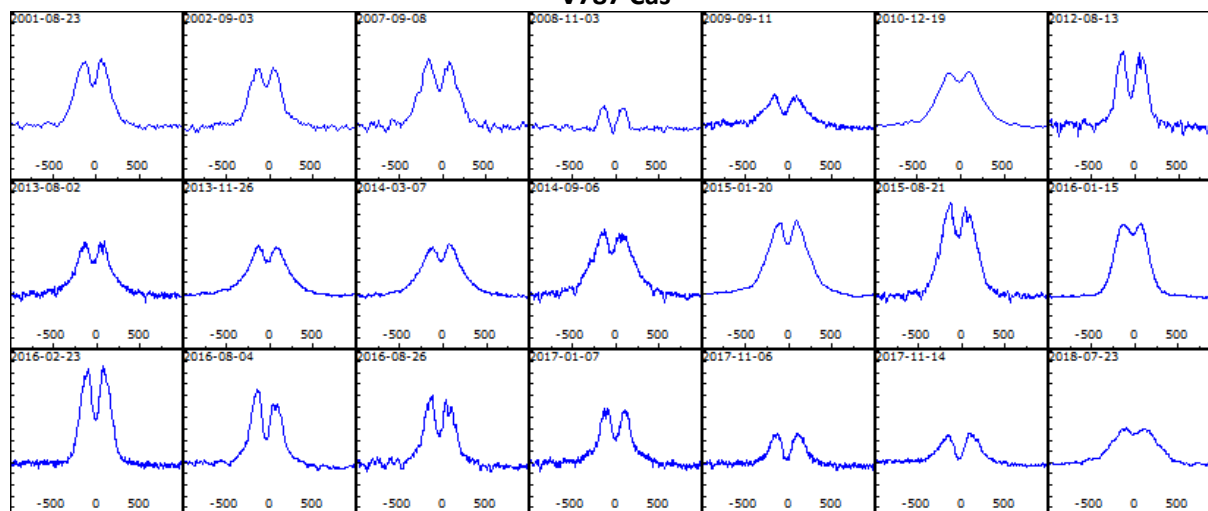
### V813 Cas



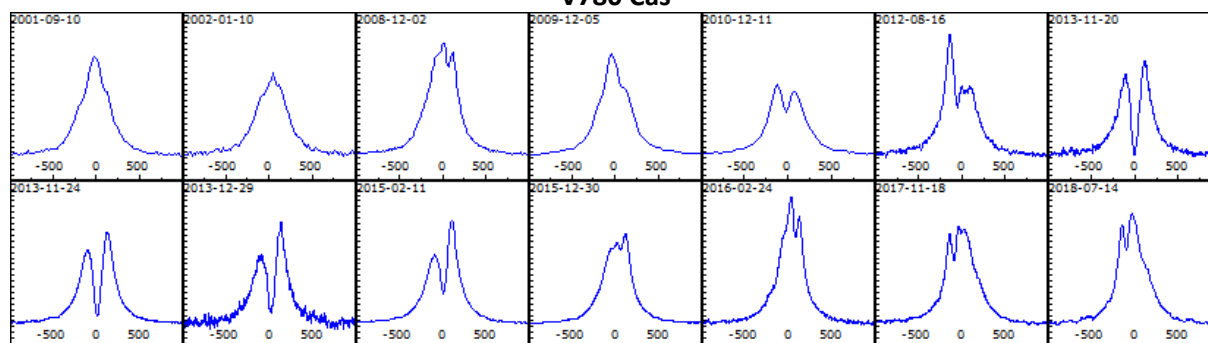
### 31 Peg



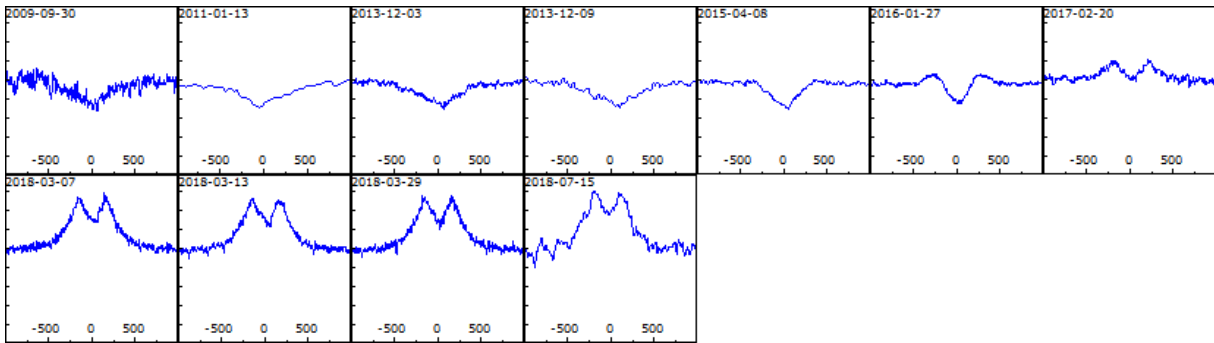
### V787 Cas



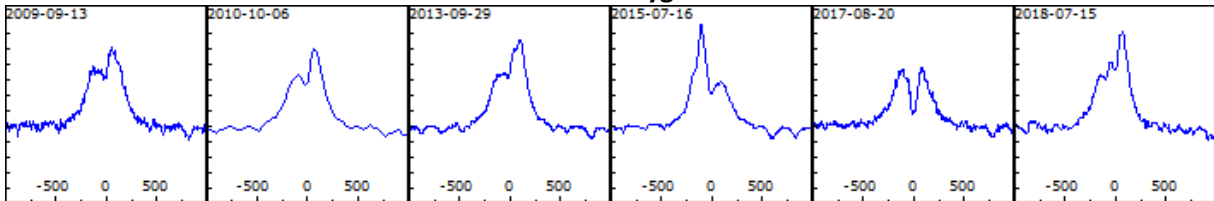
### V780 Cas



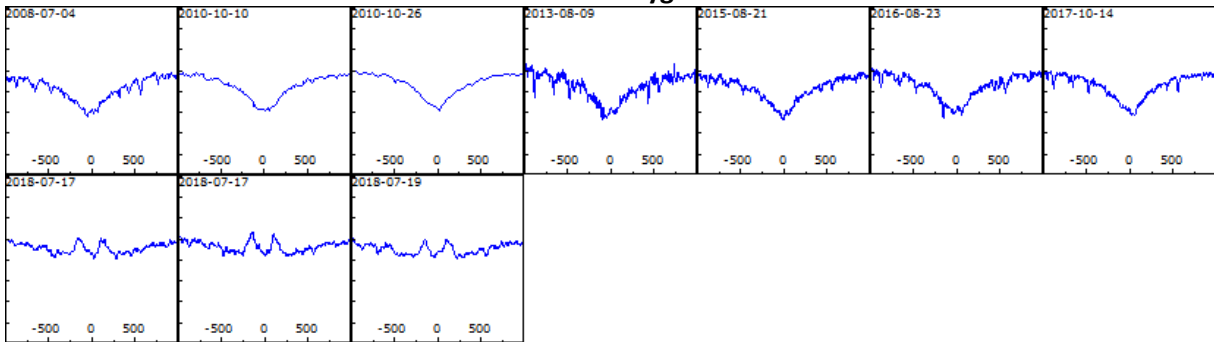
### HD 237091



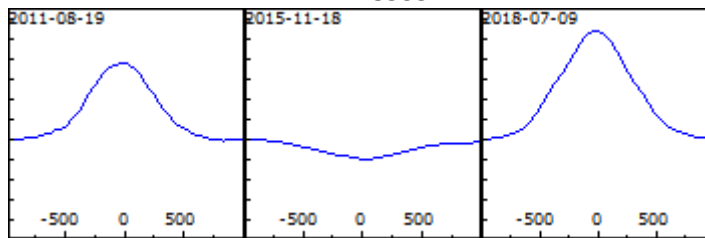
### V1362 Cyg



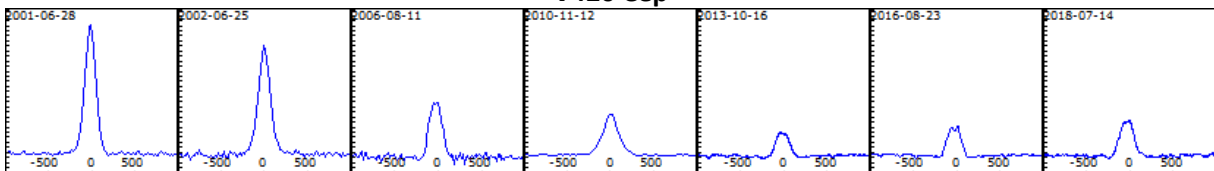
### V2144 Cyg



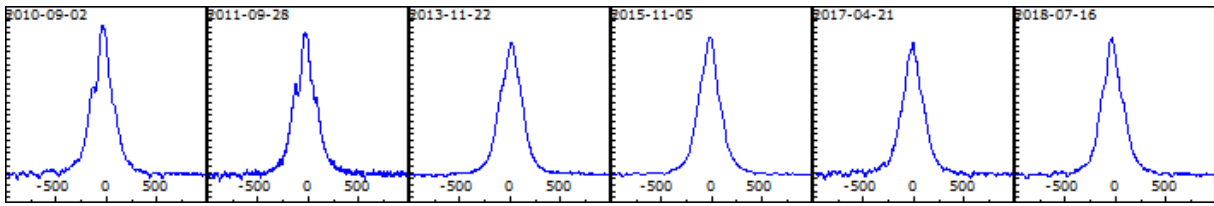
### HD 228535



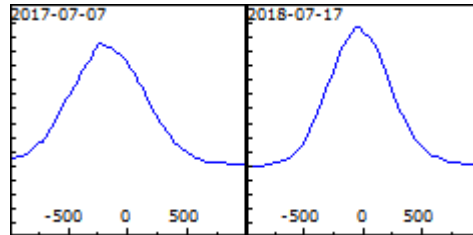
### V420 Cep



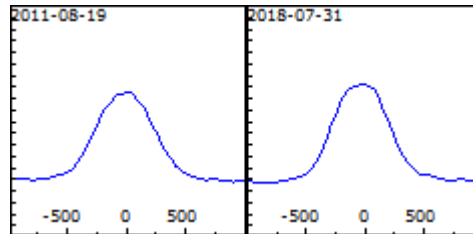
**BD+62 271**



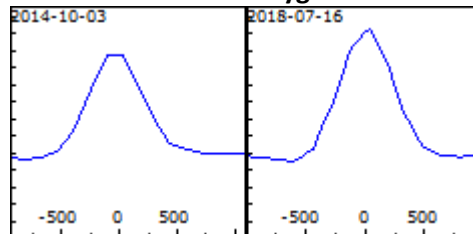
**BD+38 4093**



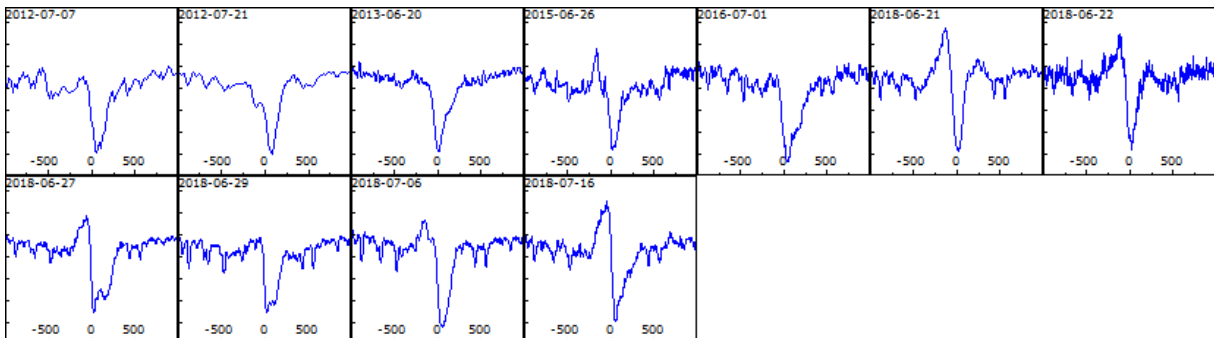
**HD 355402**



**V1578 Cyg**

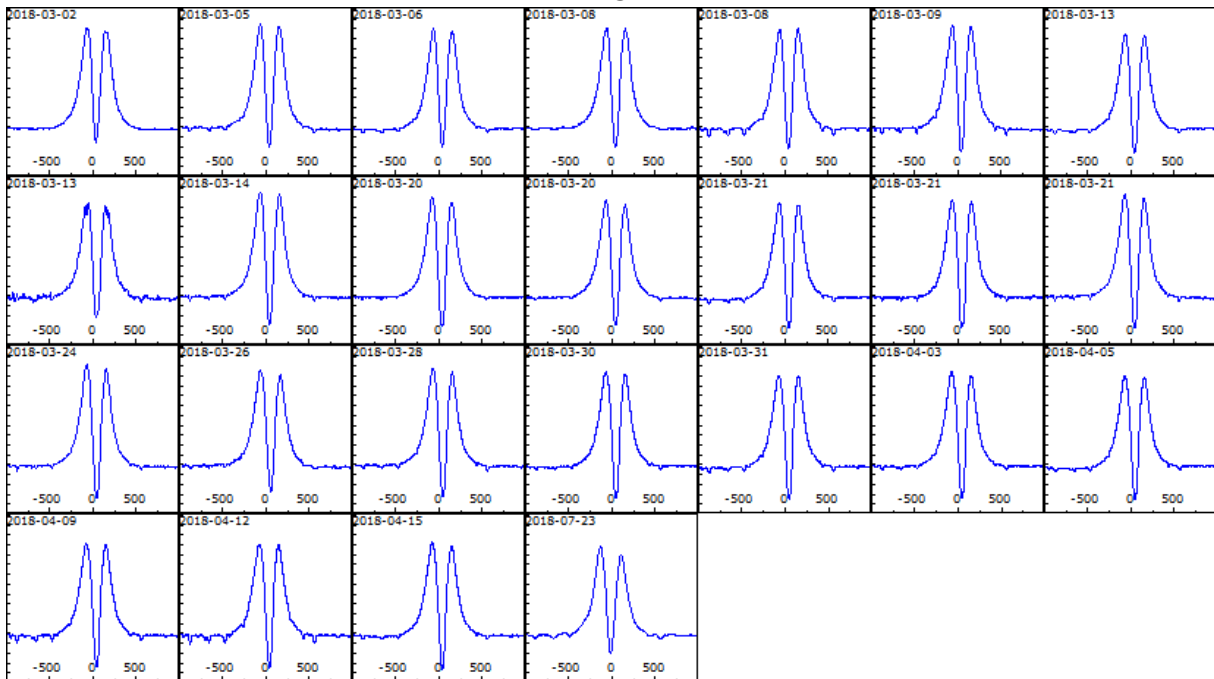


**V718 Sco**

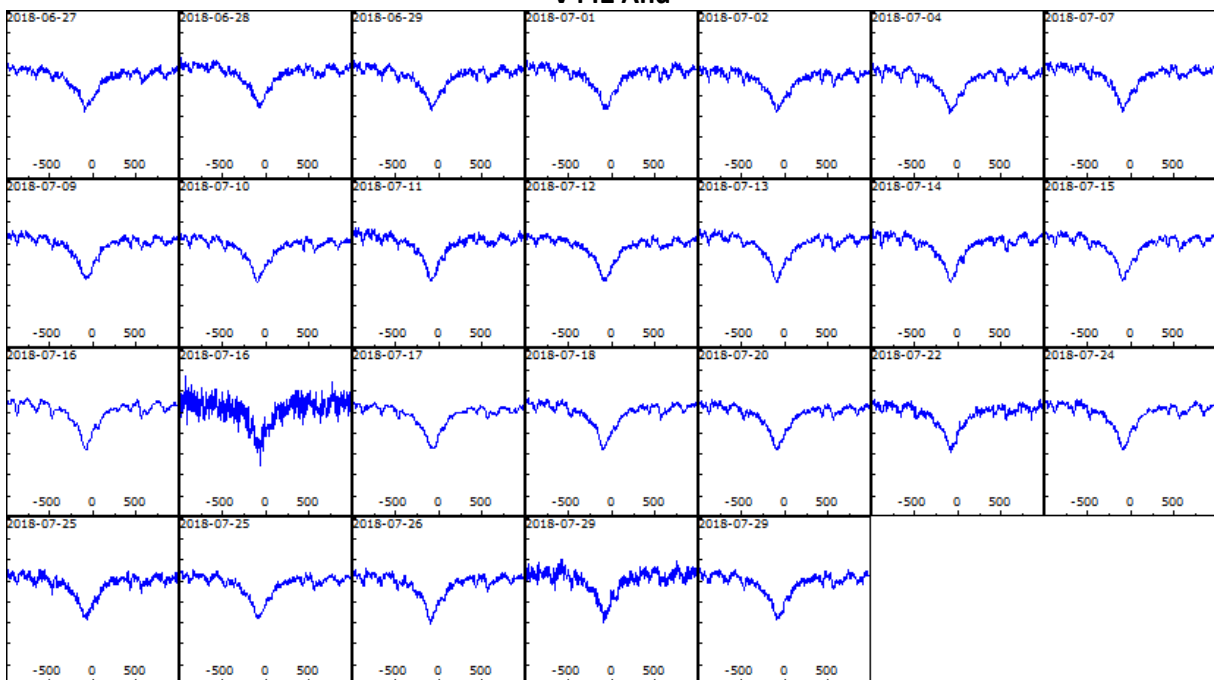


## Moderate evolutions of H-alpha line

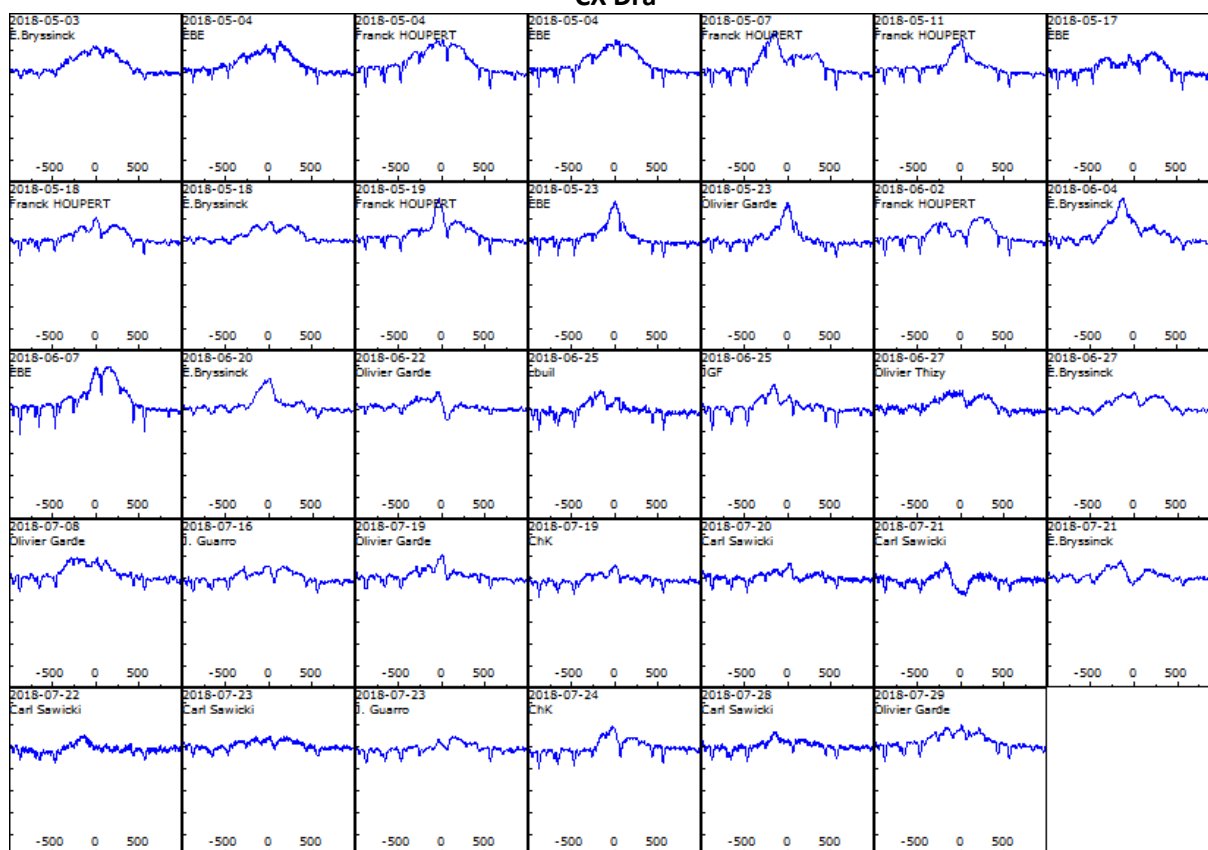
PLEIONE



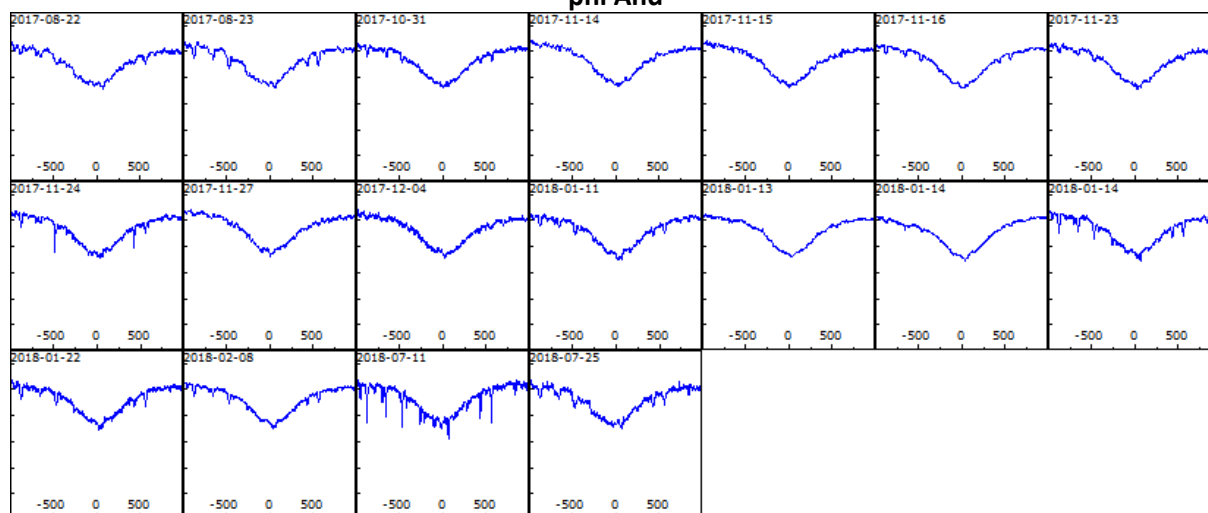
V442 And



### CX Dra

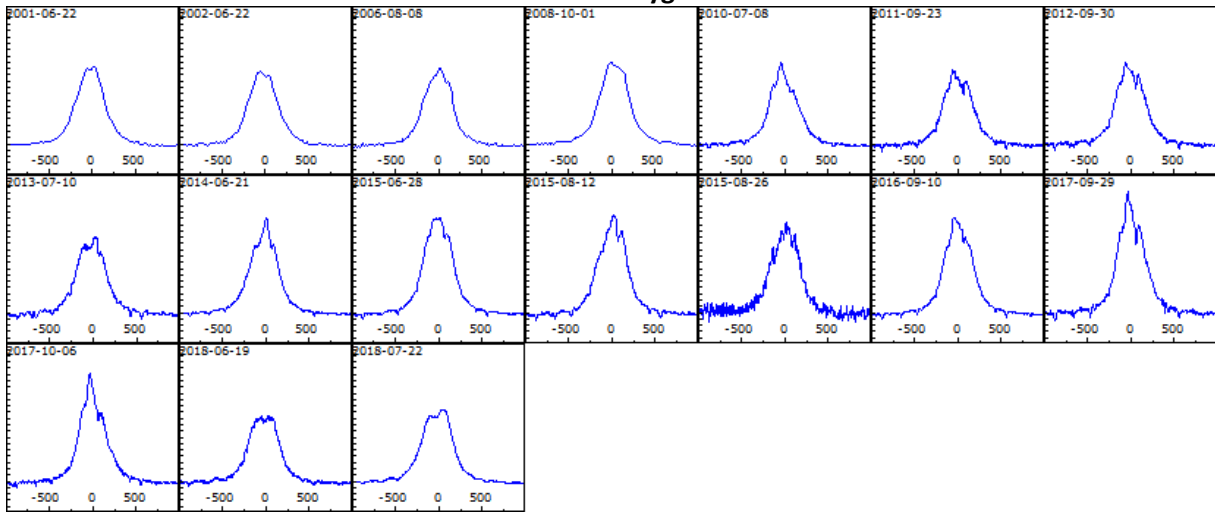


### phi And

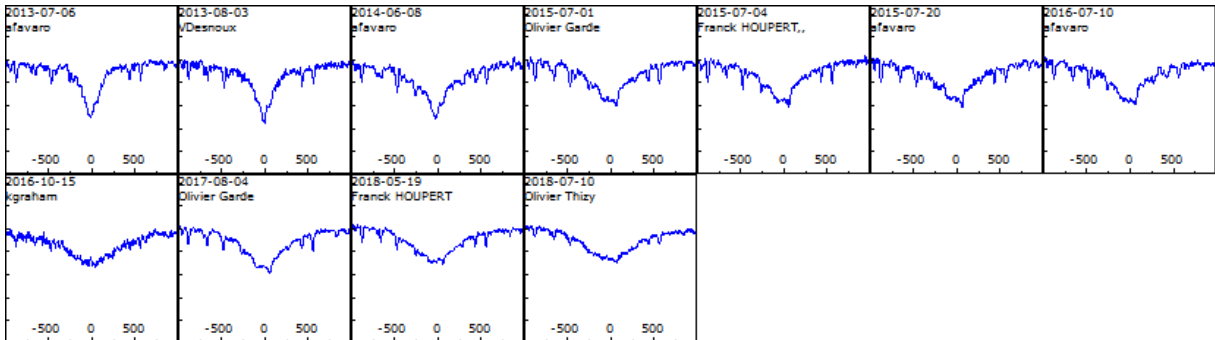




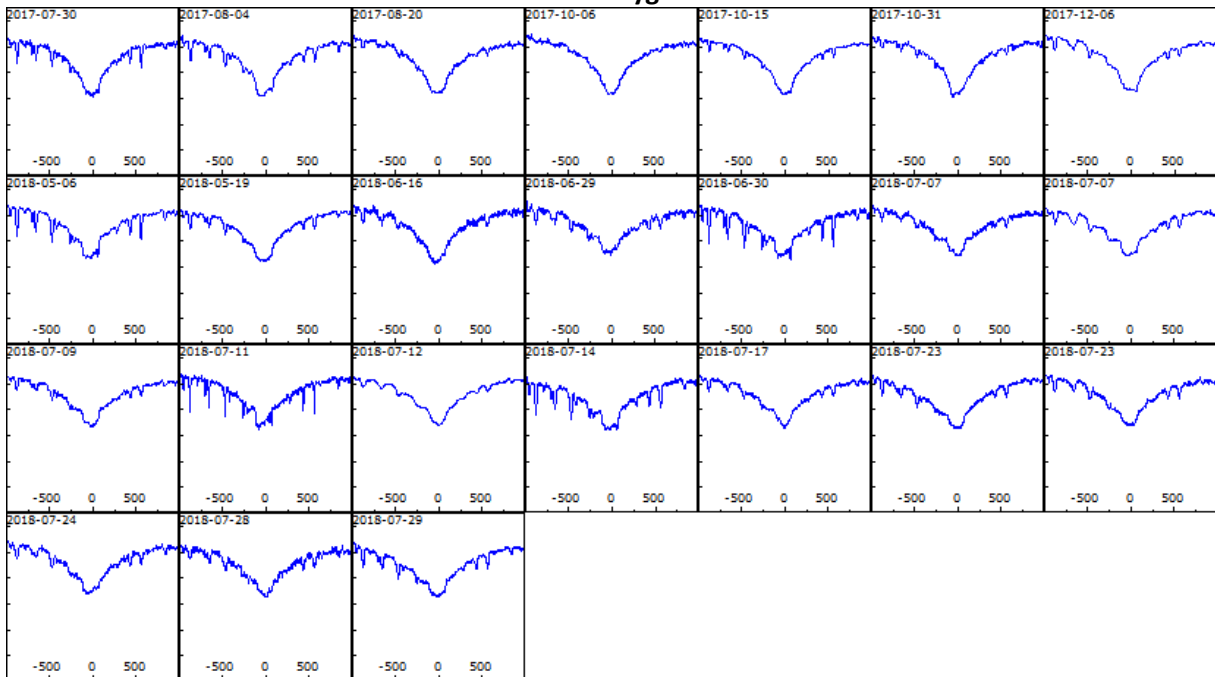
### V2113 Cyg



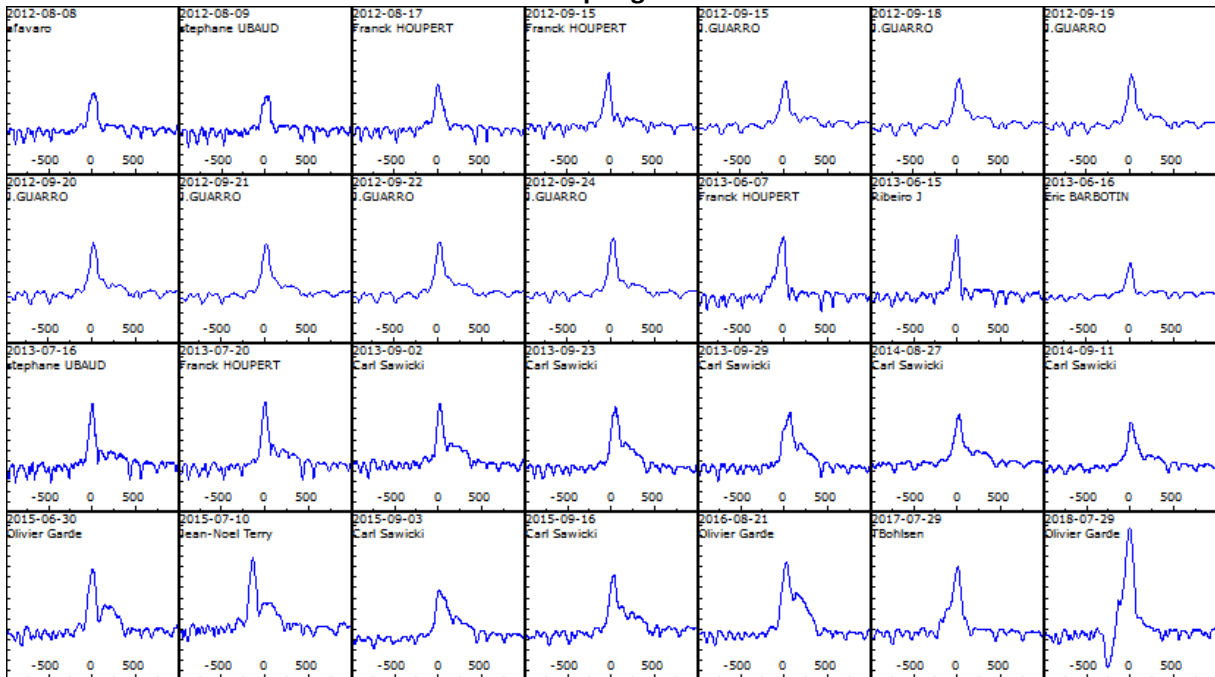
### 7 Vul



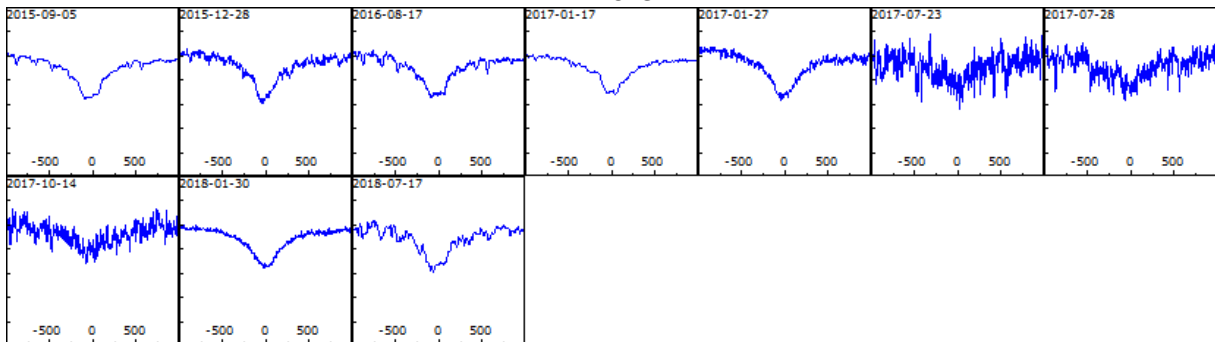
### Iam Cyg



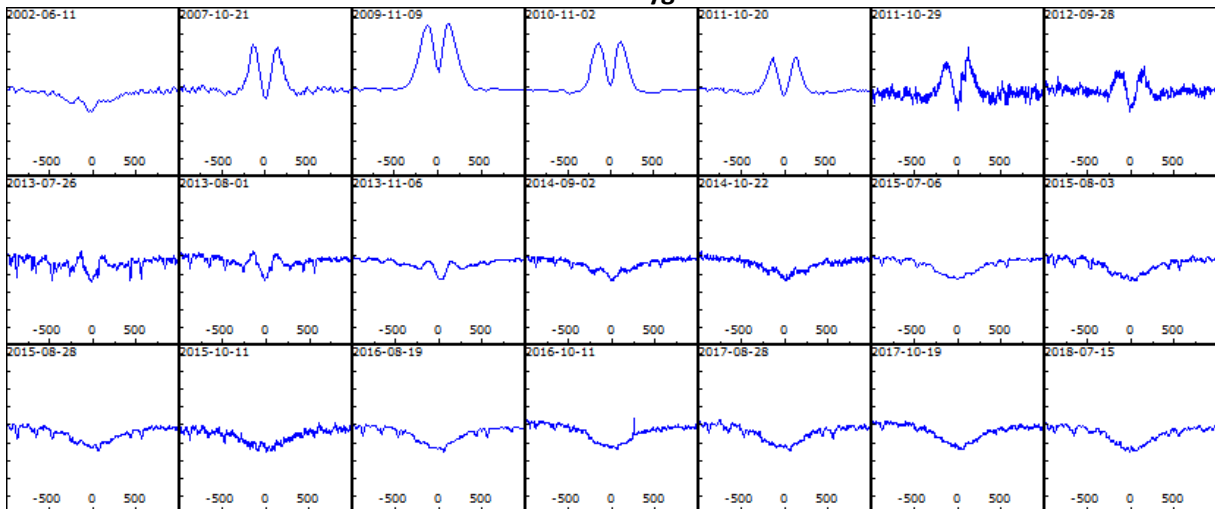
### ups Sgr



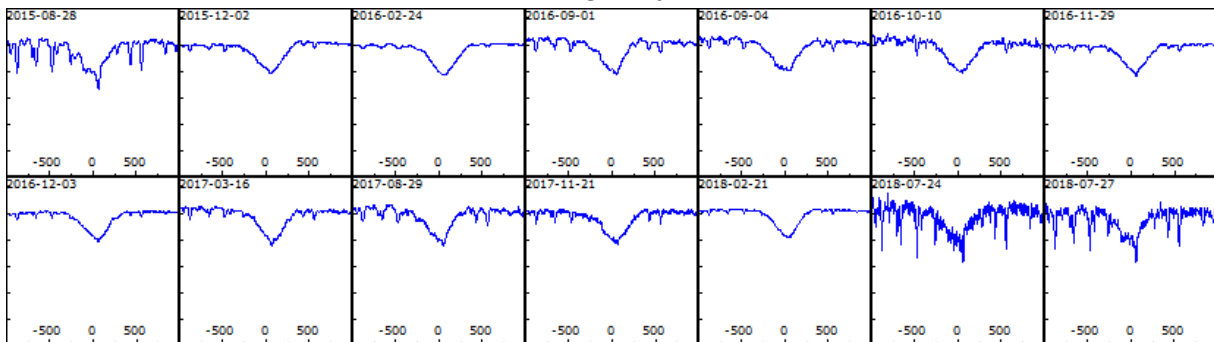
### HD 20134



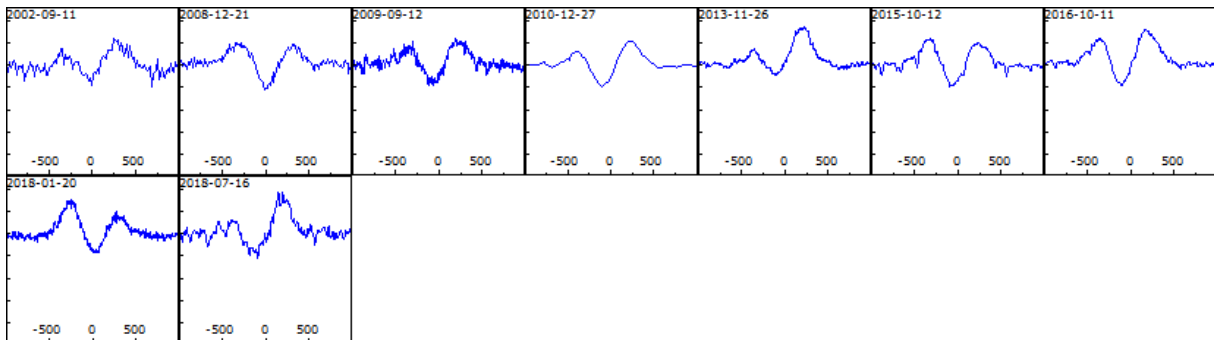
### V2163 Cyg



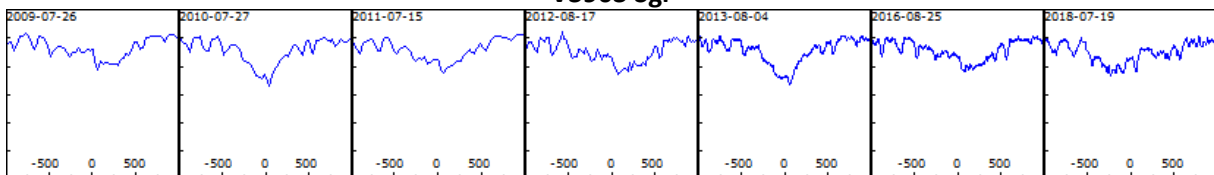
### Menkhib



### V473 Per

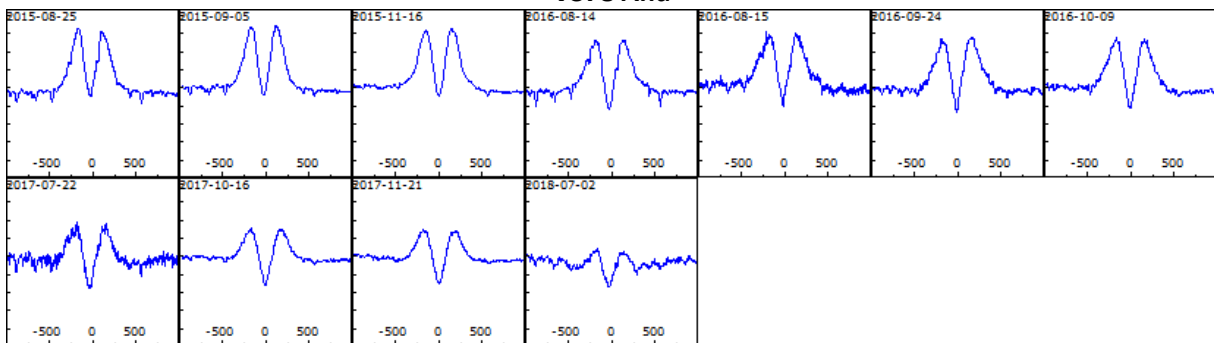


### V3903 Sgr

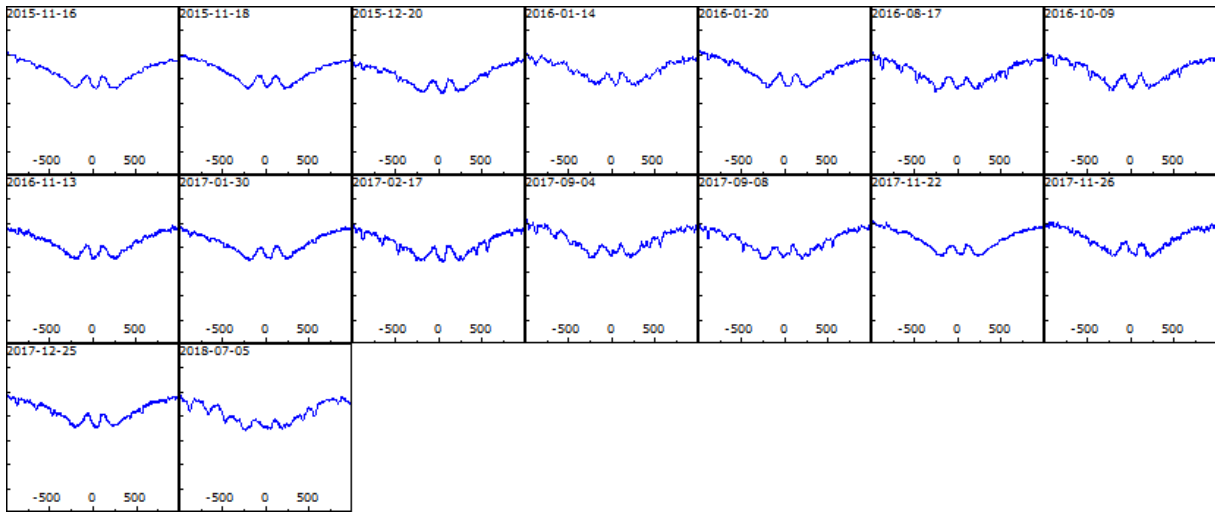


## Emission decrease of H-alpha line

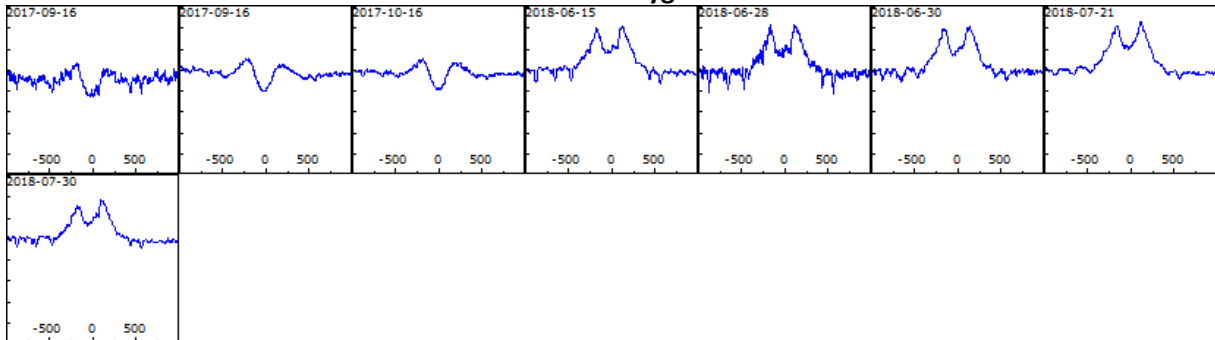
### V378 And



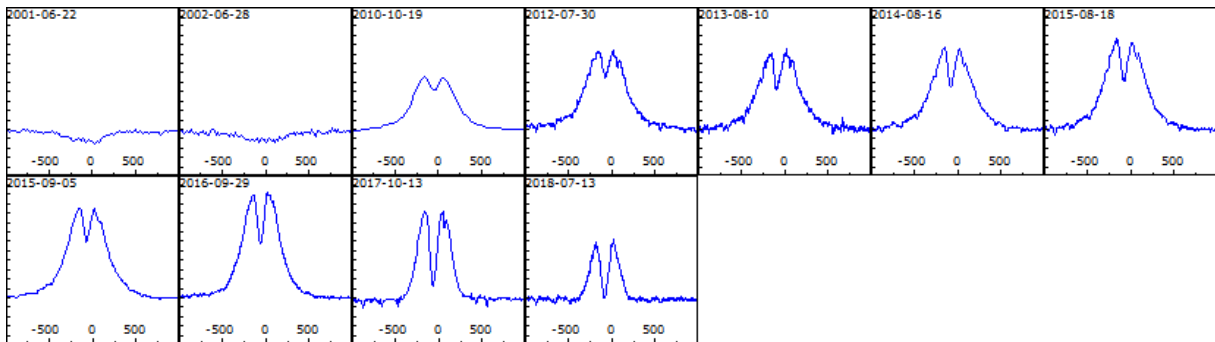
### 18 And



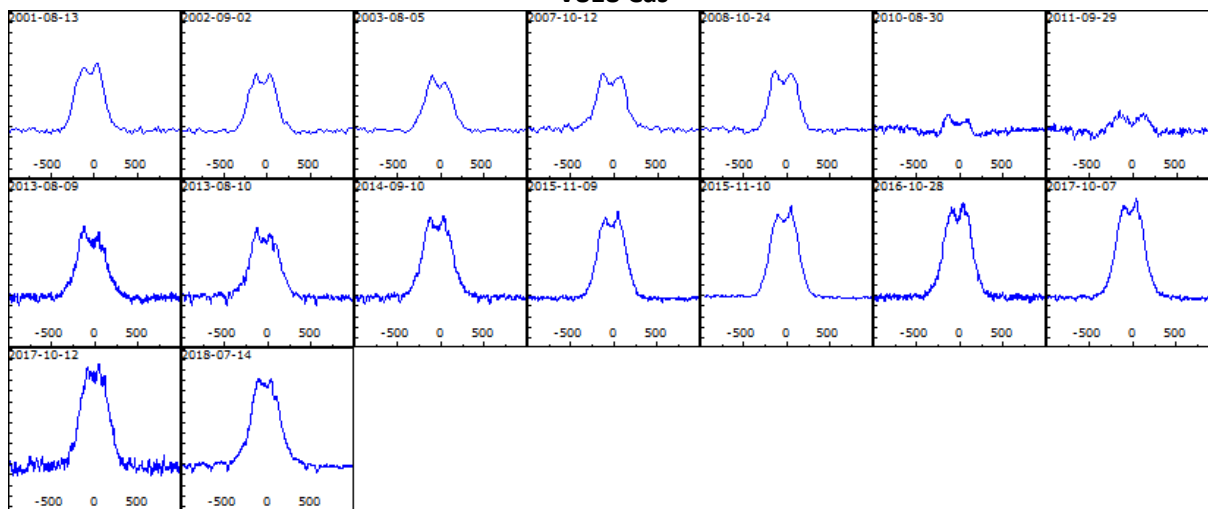
### V2136 Cyg



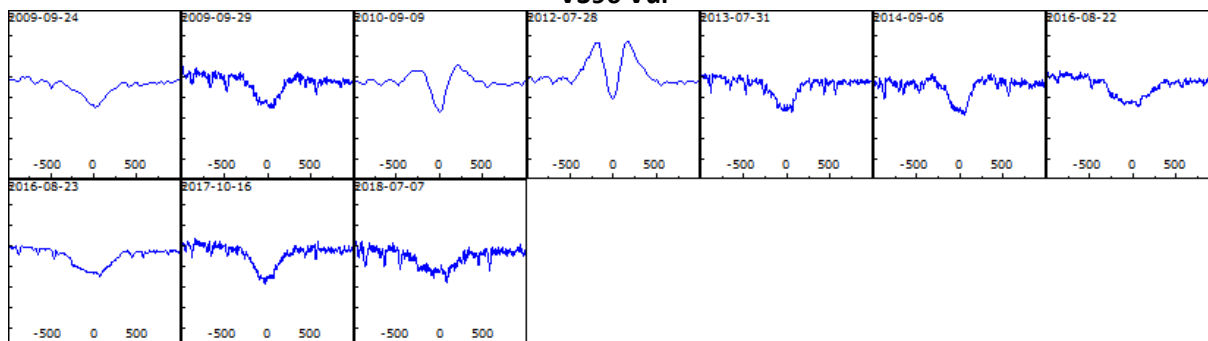
### HD 195407



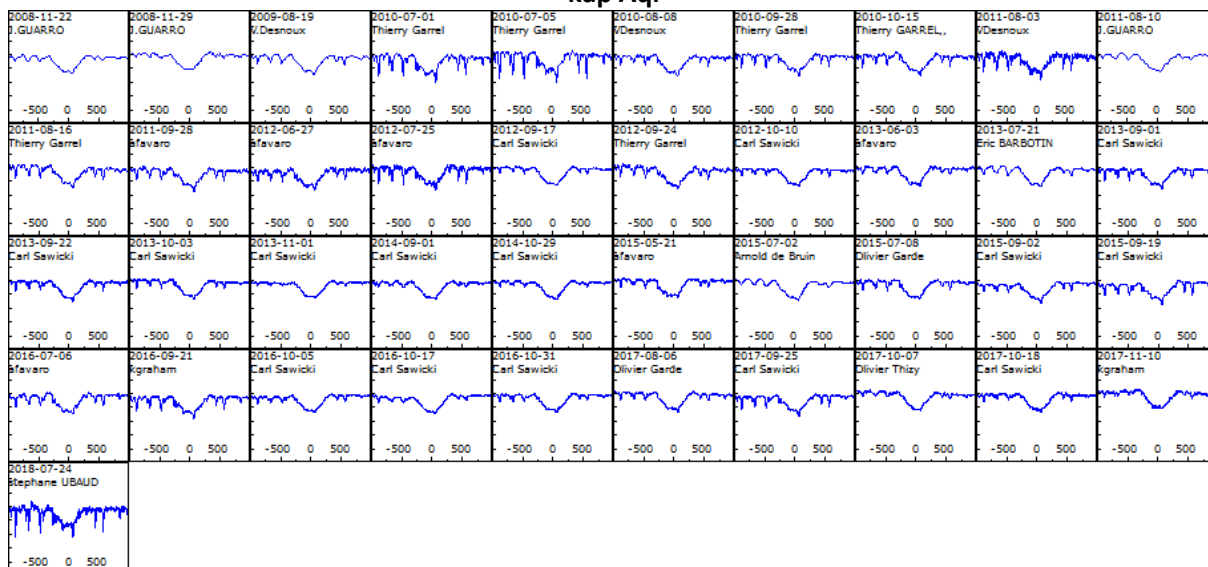
### V818 Cas



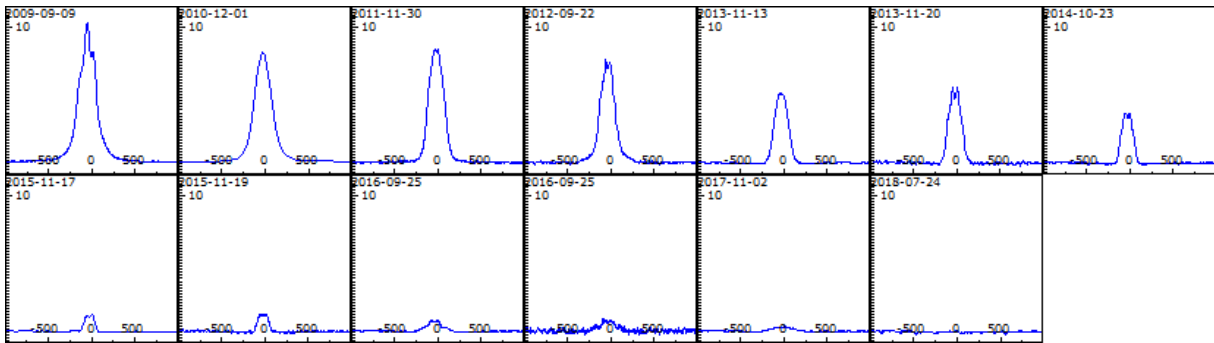
### V396 Vul



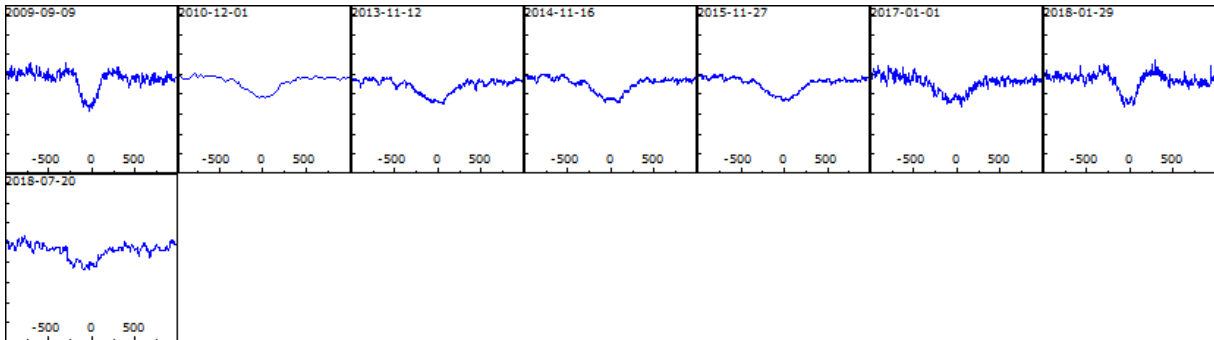
### kap Aql



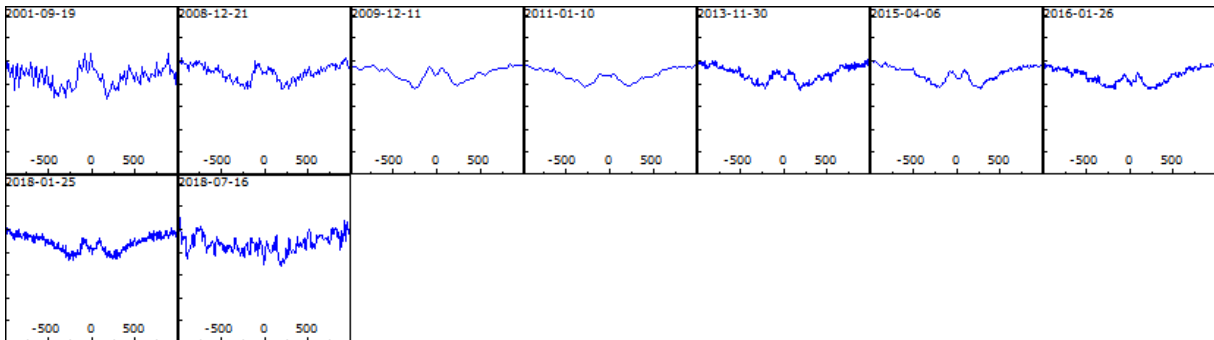
### HD 225095



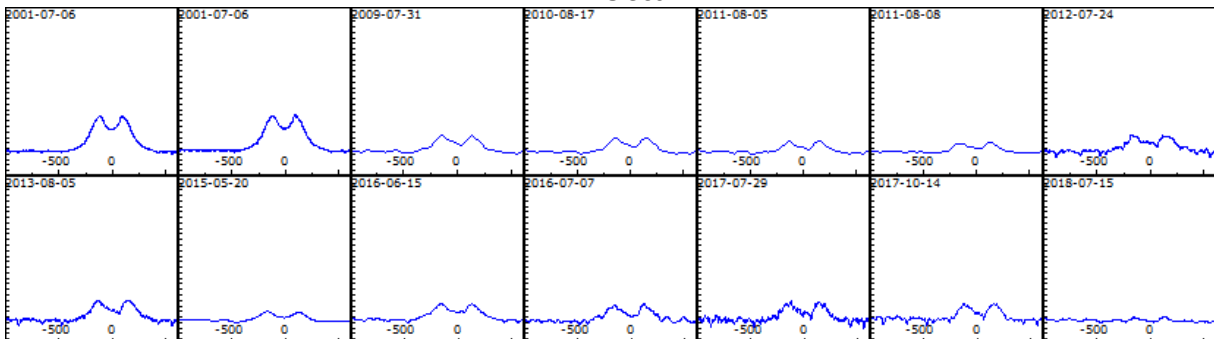
### HD 224905



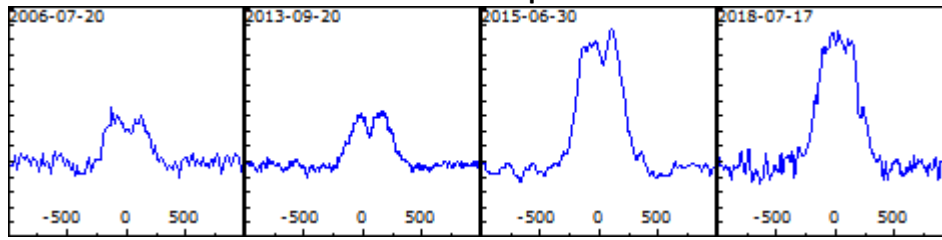
### HD 18877



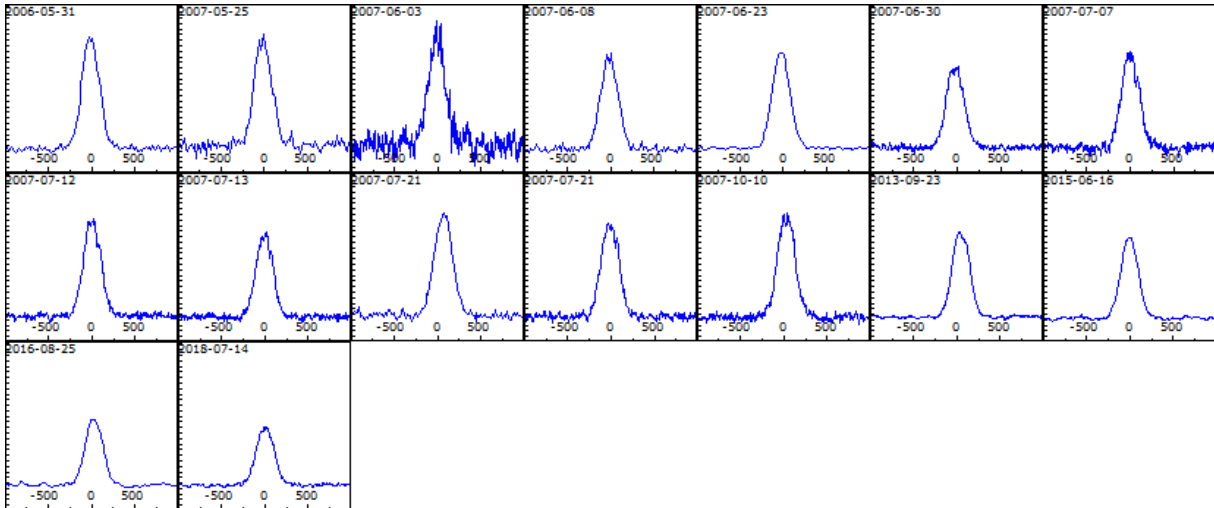
### V448 Sct



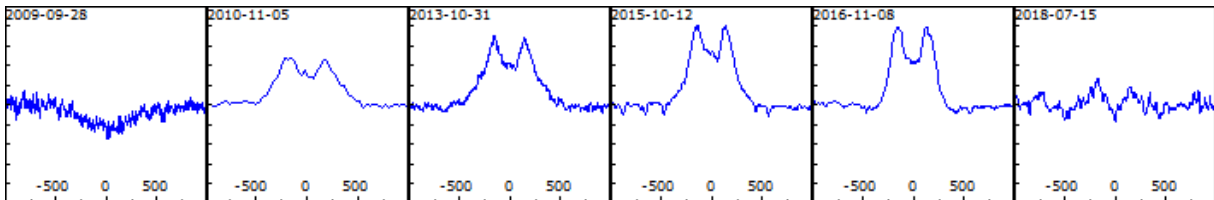
**V1437 Aql**



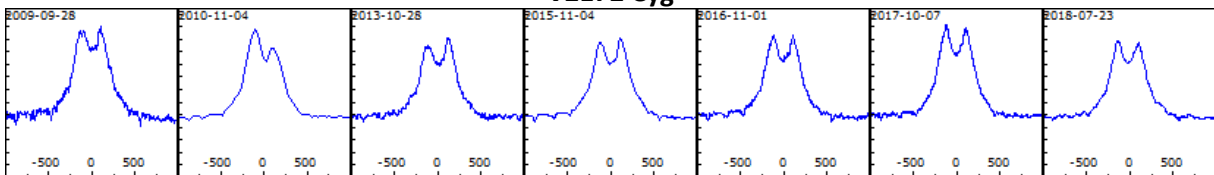
**HD 181231**



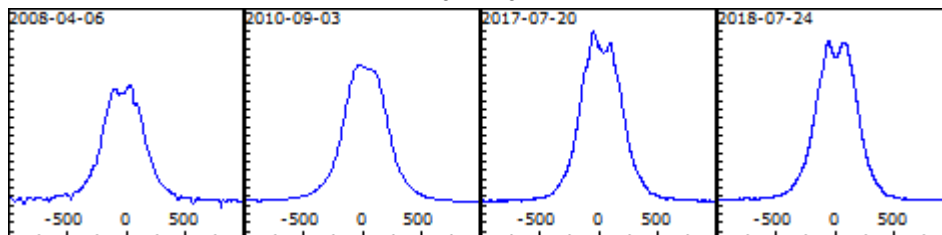
**HD 212666**

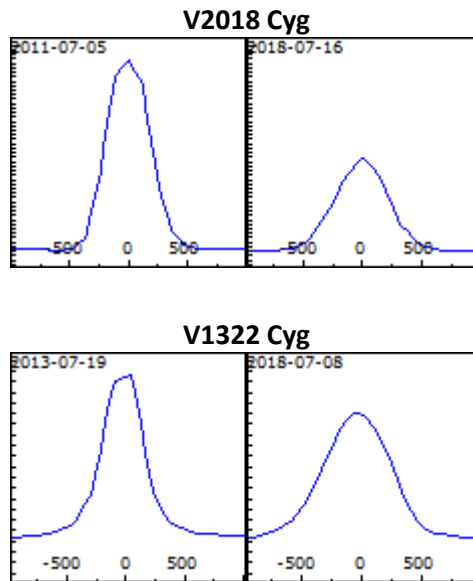


**V2172 Cyg**



**alf Ara**





### ***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.

### ***Authors***

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

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

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