

BeSS report – October 2018

Data compiled by Valérie Desnoux – H-alpha monitoring

- 109 Stars were observed
- 20 Observers contributed this month
- 338 Spectra

Observers...

Observateur	Nb spec
Thizy	77
HOUPERT	66
Charbonnel	35
Bryssinck	30
de Bruin	22
bertrand	20
Guarro Fló	17
KREIDER	15
Graham	13
GARDE	9
Stiewing	7
Dejean	6
Gurney	5
Fosanelli	5
Bohlsen	4
Martineau	3
Leadbeater	3
Li	1

Events of the month...

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

EE	ME	DE
V442 And	lam Cyg	phi Per
HD 203374	28 Cyg	HD 23552
OT Gem	QR Vul	V568 Cyg
bet Psc	CX Dra	ome Ori
omi Aqr	14 Lac	V378 And
HD 13669	HD 177648	25 Peg
NT Peg	ALFIRK	HD 31648
V787 Cas	HD 216057	HD 23800
V1150 Tau	69 Ori	BD+62 11
AX Mon	nu Gem	V415 Aur
HD 37352	59 Cyg	IP Per
HD 179253	16 Peg	RY Gem
V978 Cas	V421 Cep	
6 Cep	MEROPE	
V416 Aur	228 Eri	
V448 Sct	bet Mon A	
V502 Per	12 Aur	
V4031 Sgr	HD 344873	
HD 245493		
V983 Cas		

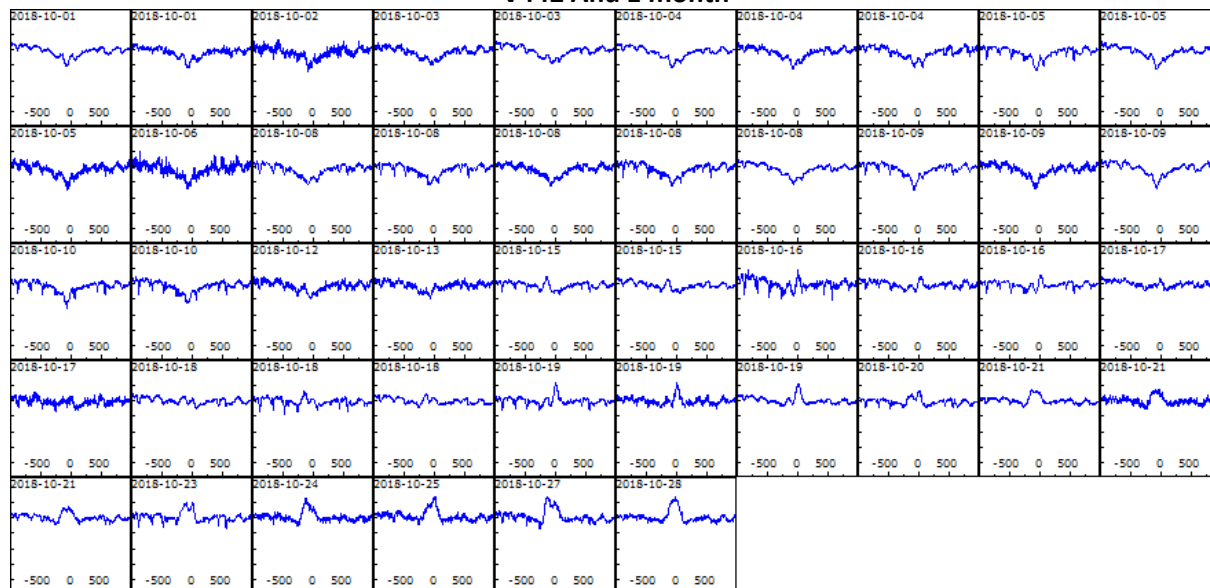
Objects observed

Classique							?	Herbig
lam Cyg	omi Cas	59 Cyg	NT Peg	6 Cep	56 Eri	V420 Aur	HD 20566	HD 31648
V442 And	zet Tau	HD 205551	HD 20134	120 Tau	BD+57 515	HD 29866		AB Aur
omi And	HD 171780	V378 And	V787 Cas	BD+62 11	V504 Per	HD 23800		IP Per
phi And	HD 174179	HD 22780	V2163 Cyg	HD 37149	V502 Per	HD 13669		
28 Cyg	60 Cyg	nu Cyg	228 Eri	HD 26398	BD+36 4145	PHECDA		
QR Vul	HD 216057	25 Peg	V1150 Tau	V731 Tau	HD 171754	kap Dra		
gam Cas	V568 Cyg	10 Cas	bet Mon A	V415 Aur	HD 46484	ALFIRK		
12 Vul	HD 9709	25 Cyg	AX Mon	V1372 Ori	V972 Cas	HD 23552		
CX Dra	HD 207232	16 Peg	2 Ori	V715 Mon	V4031 Sgr	V586 Per		
pi Aqr	CT Cam	V421 Cep	HD 37352	V416 Aur	BD+56 511	HD 276886		
PLEIONE	69 Ori	HD 18552	HD 179253	HD 27846	HD 245493	MEROPE		
phi Per	HD 203374	105 Tau	V978 Cas	RY Gem	V983 Cas	V1165 Tau		
HD 206773	OT Gem	bet Psc	12 Aur	HD 175863	BD+60 340	HD 177648		

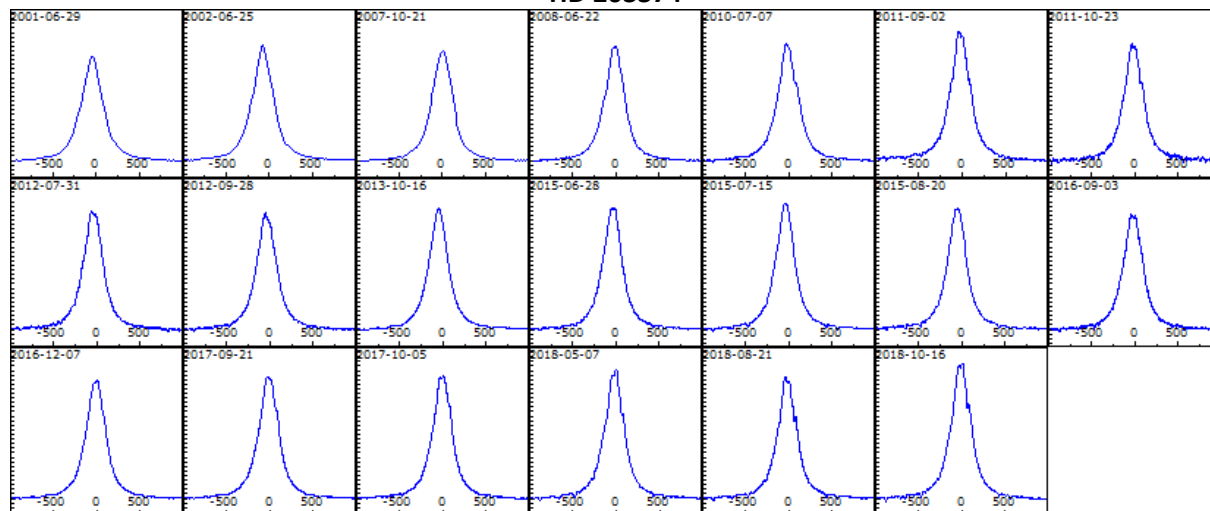
14 Lac	bet CMI	omi Aqr	Menkhib	V448 Sct	V1448 Aql	ALCYONE
31 Peg	ome Ori	lam Eri	V357 Lac	HD 344873	nu Gem	SHELIAC

Emission increase since last observations

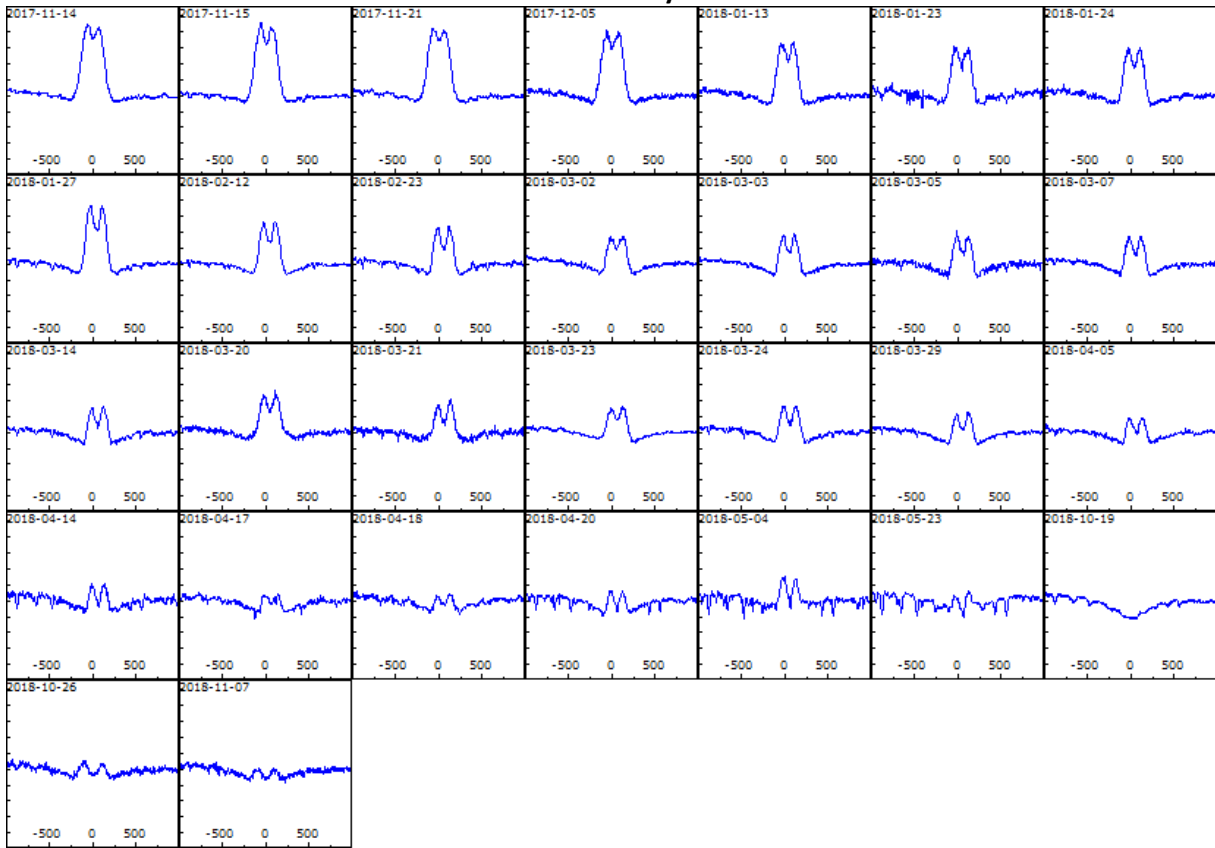
V442 And 1 month



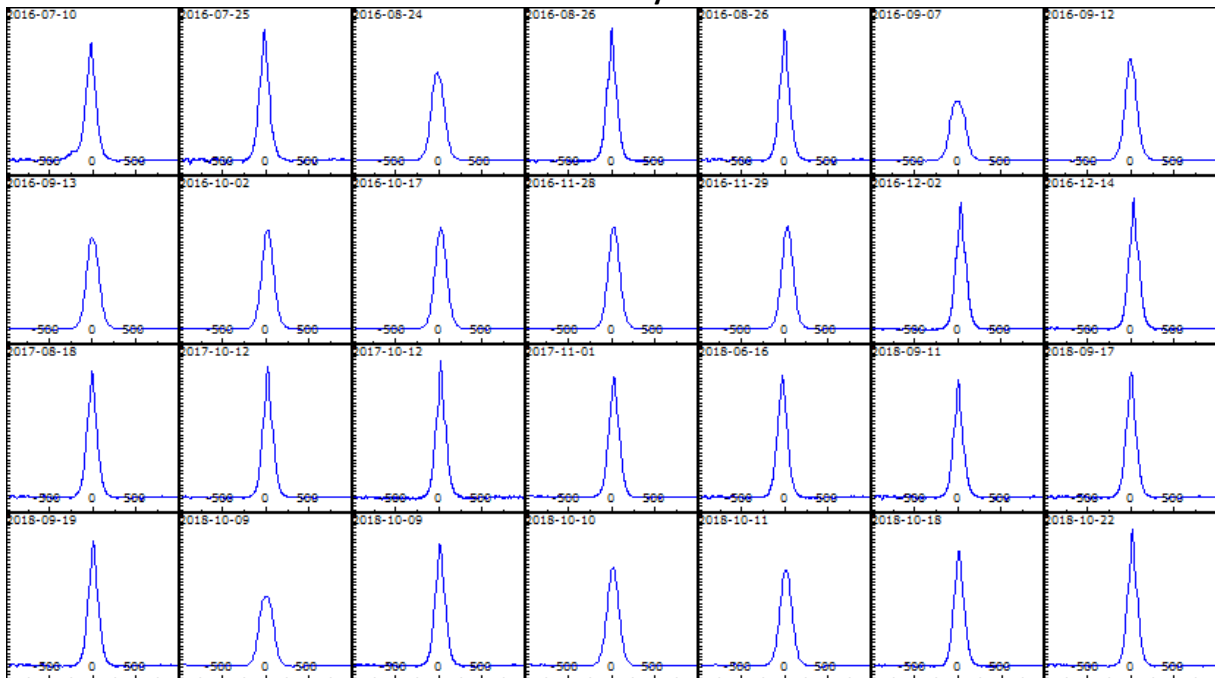
HD 203374



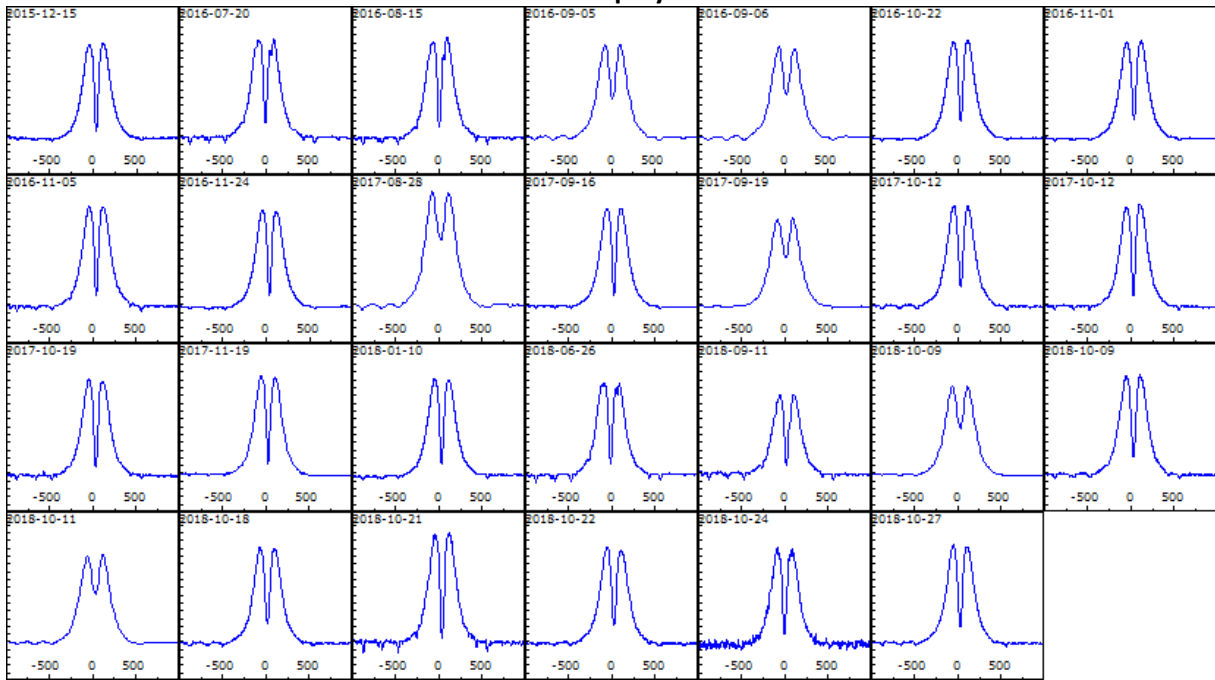
OT Gem 1 yr



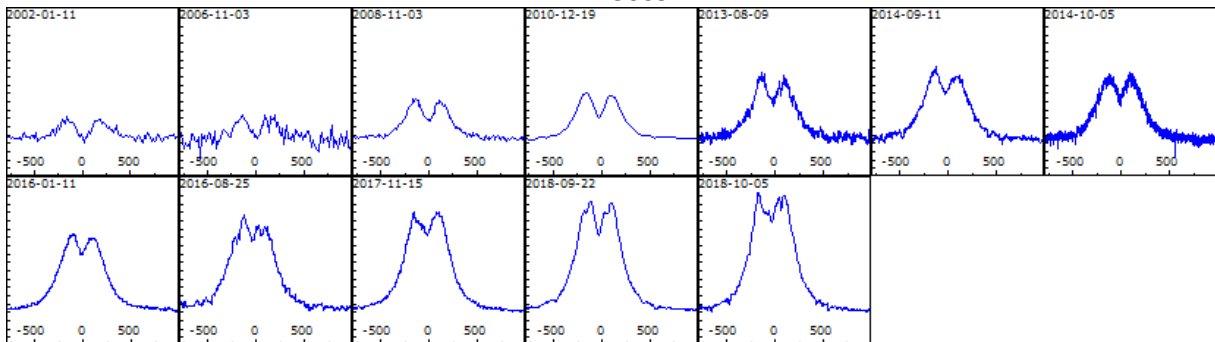
bet Psc 3 yrs



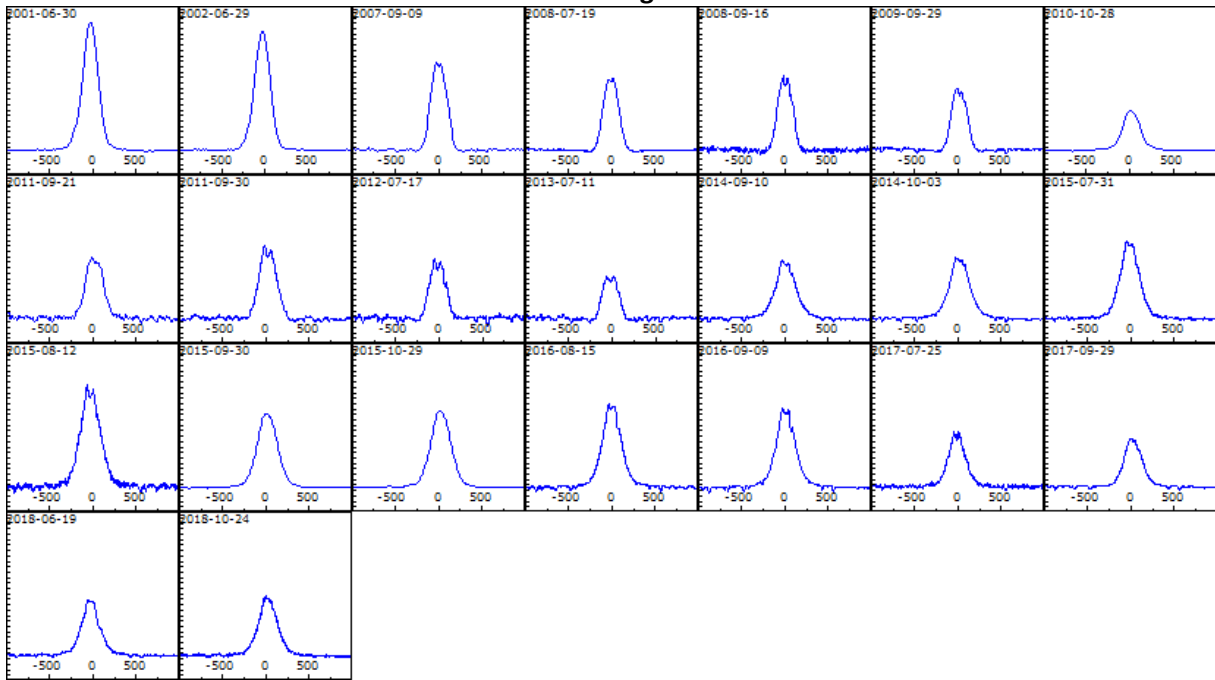
omi Aqr 3yrs



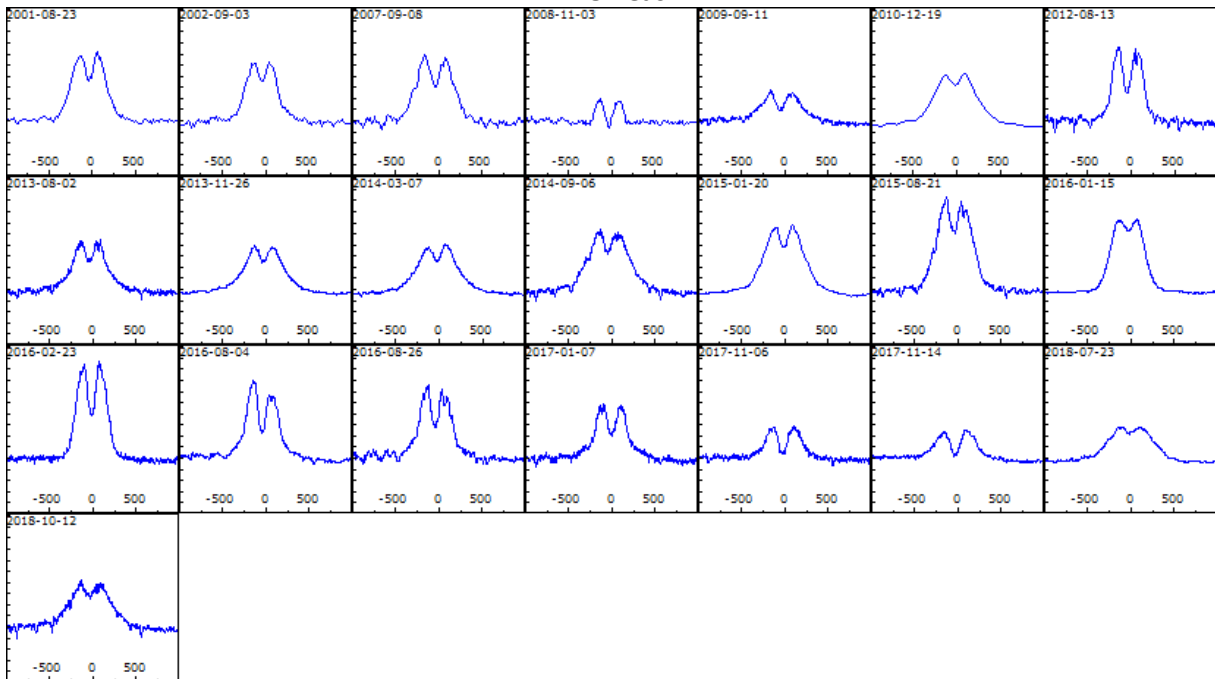
HD 13669



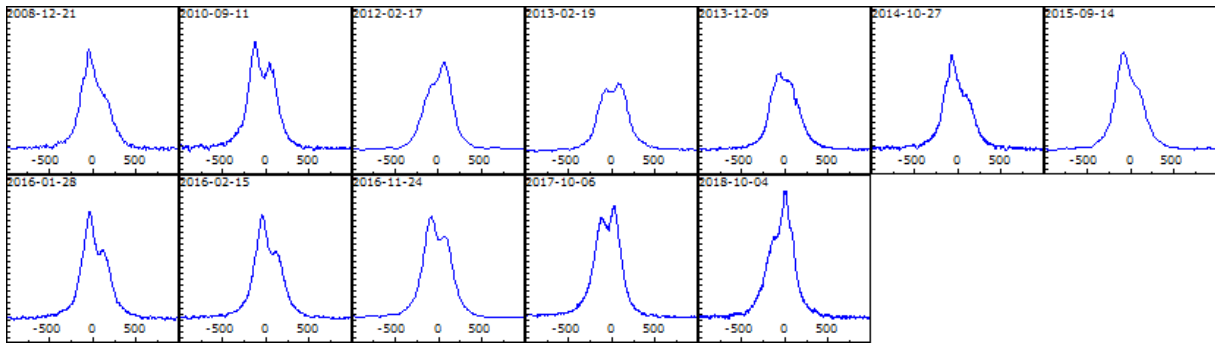
NT Peg



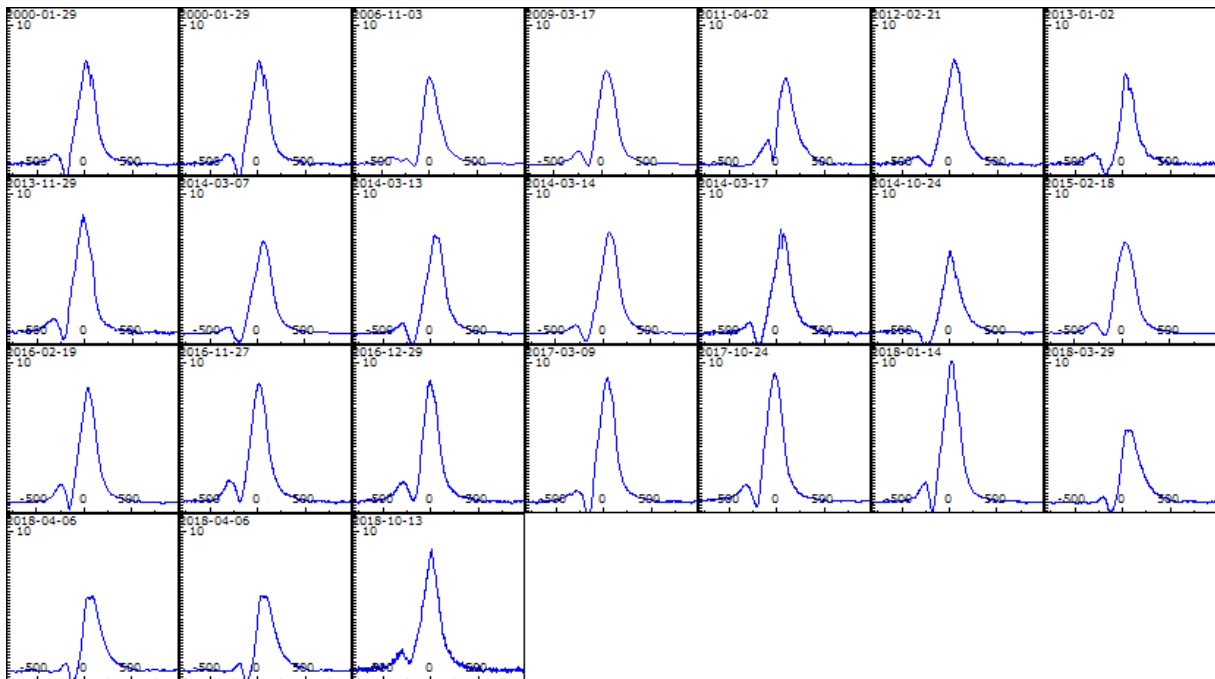
V787 Cas



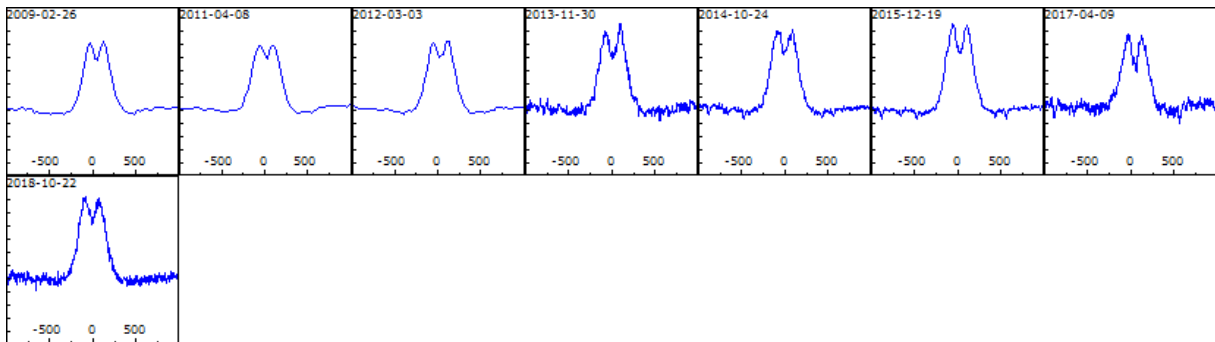
V1150 Tau



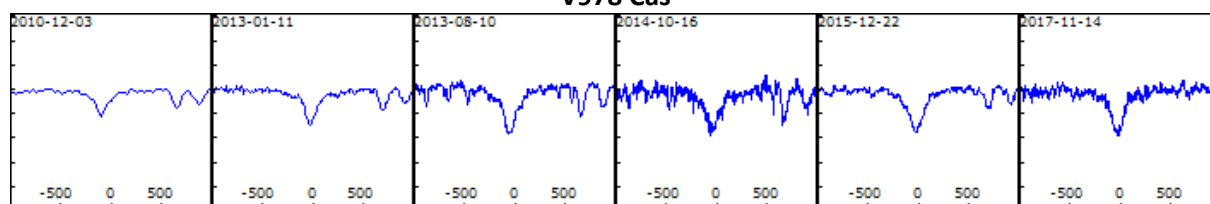
AX Mon



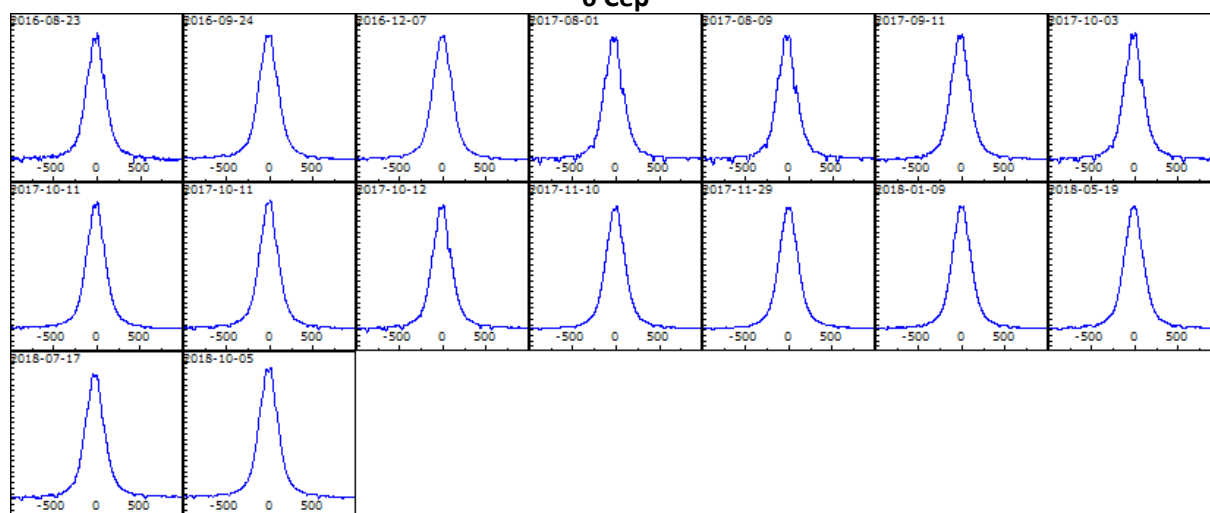
HD 37352



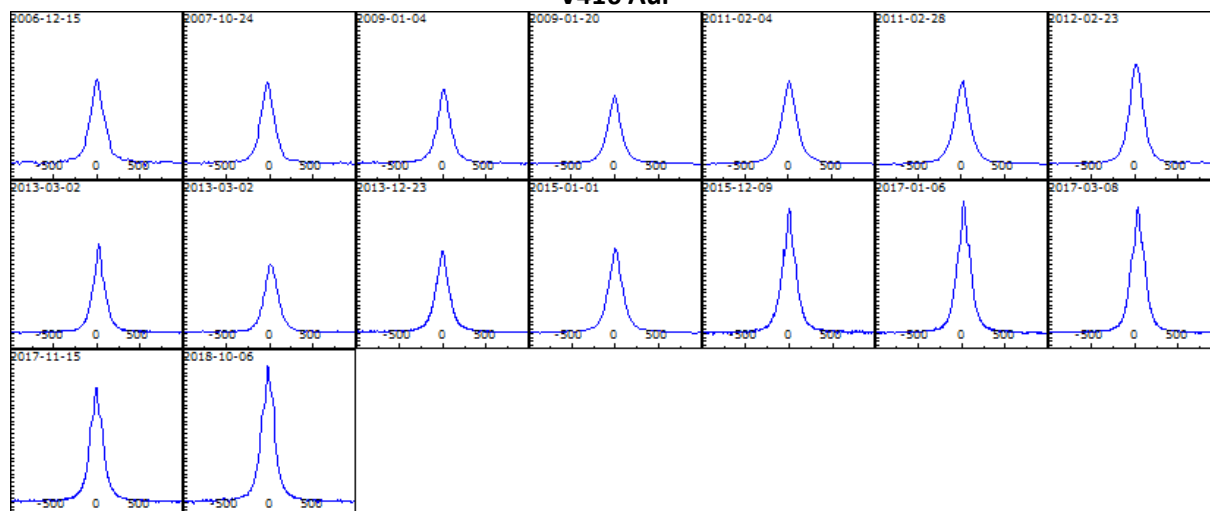
V978 Cas



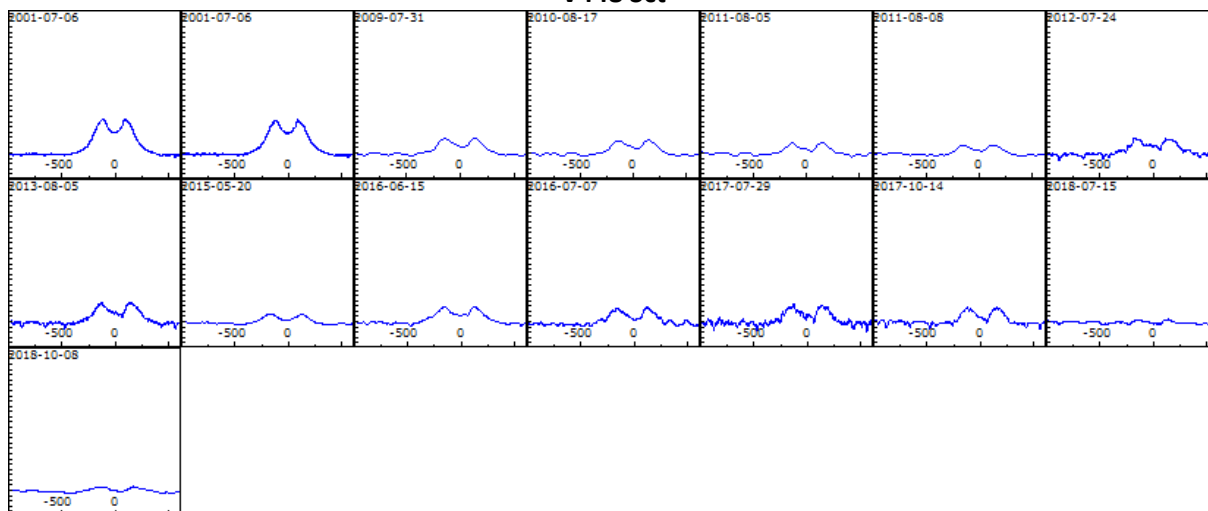
6 Cep



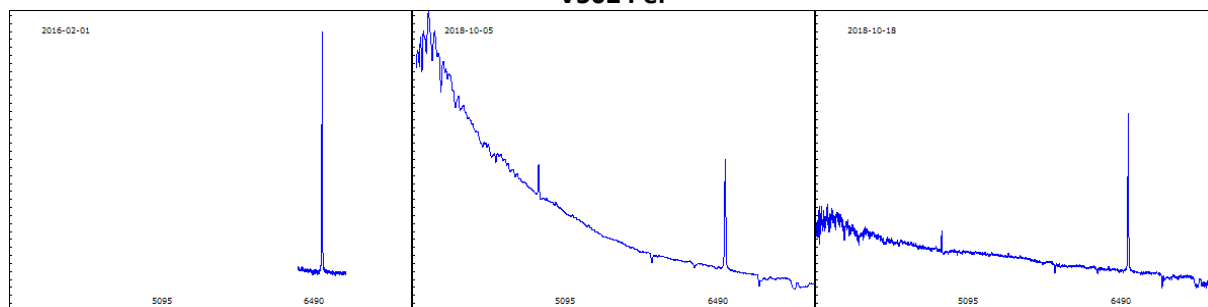
V416 Aur



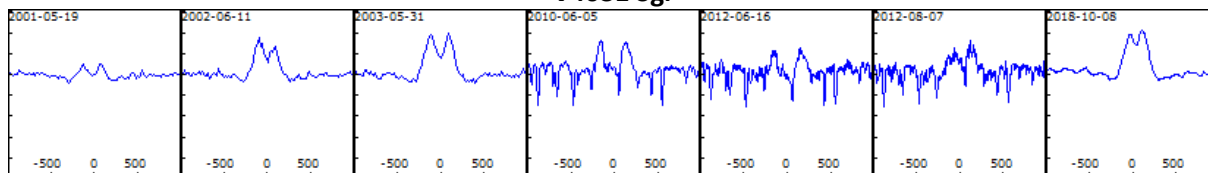
V448 Sct



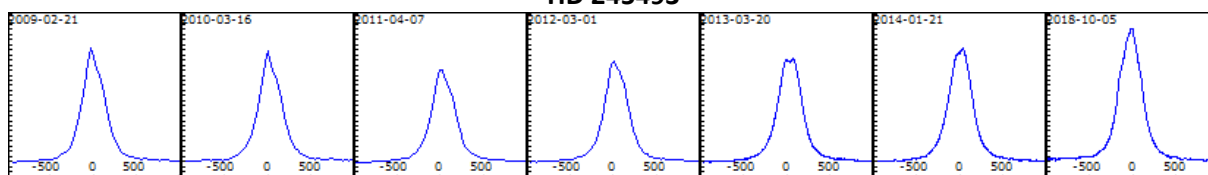
V502 Per



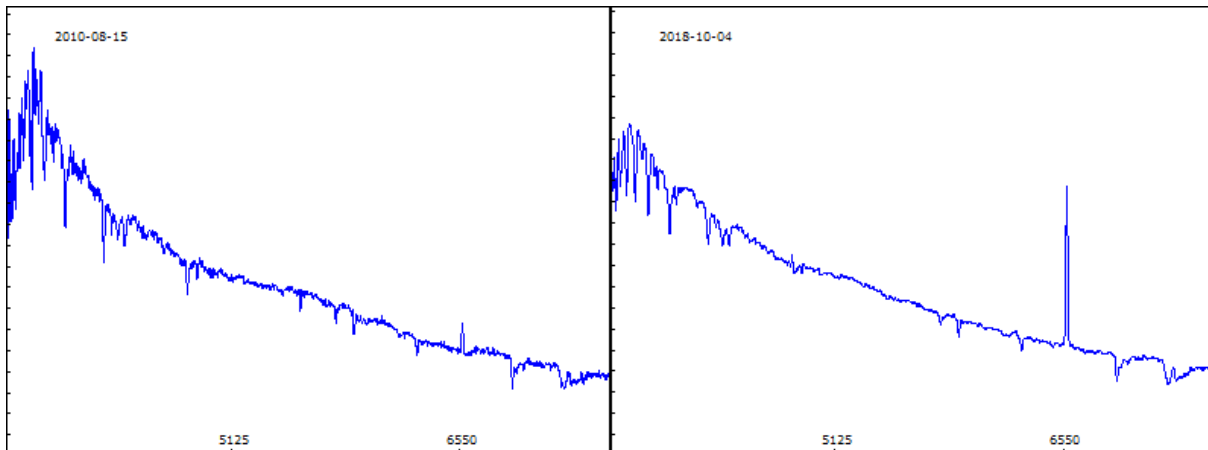
V4031 Sgr



HD 245493

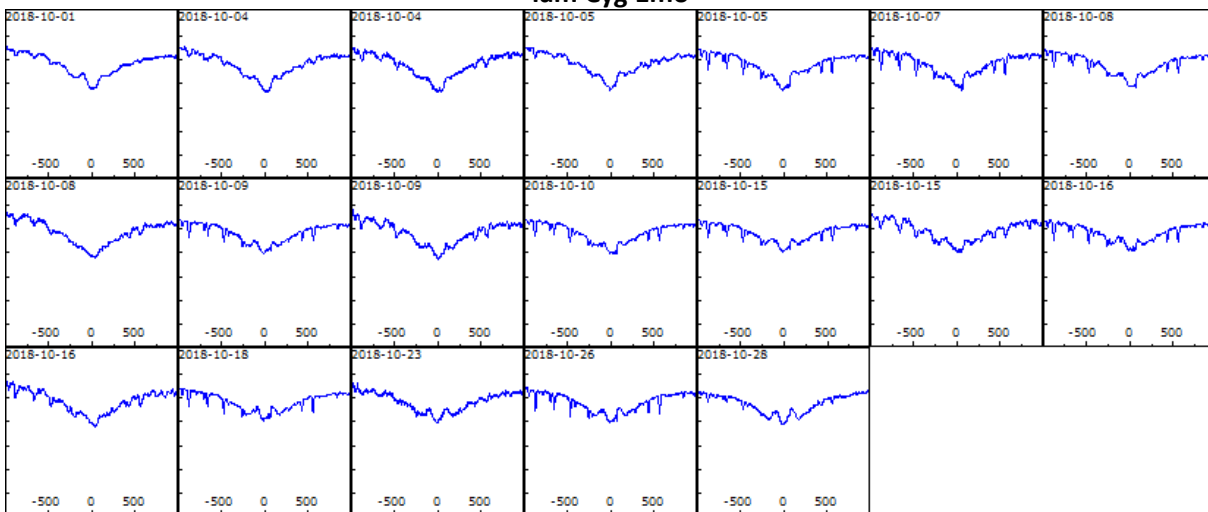


V983 Cas

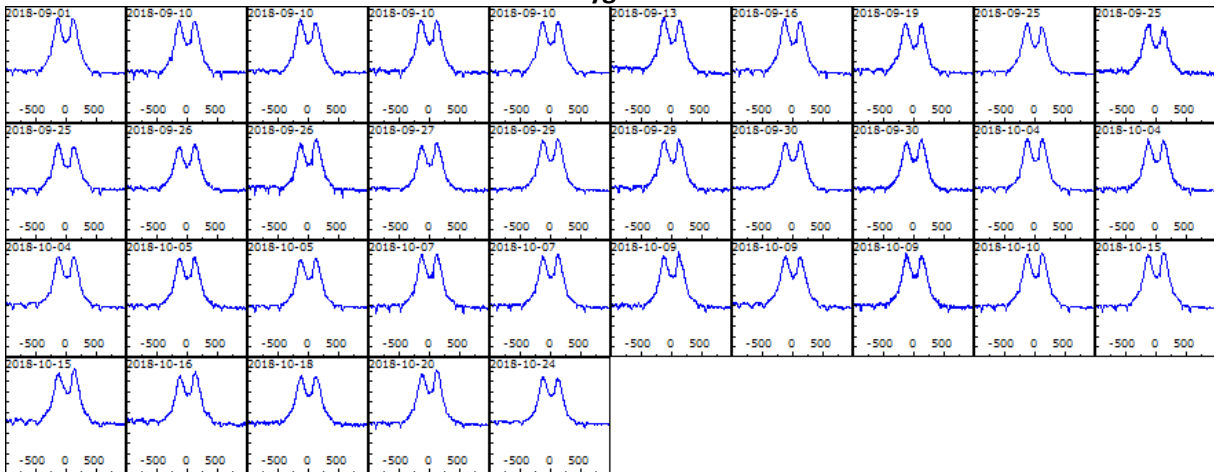


Moderate evolutions of H-alpha line

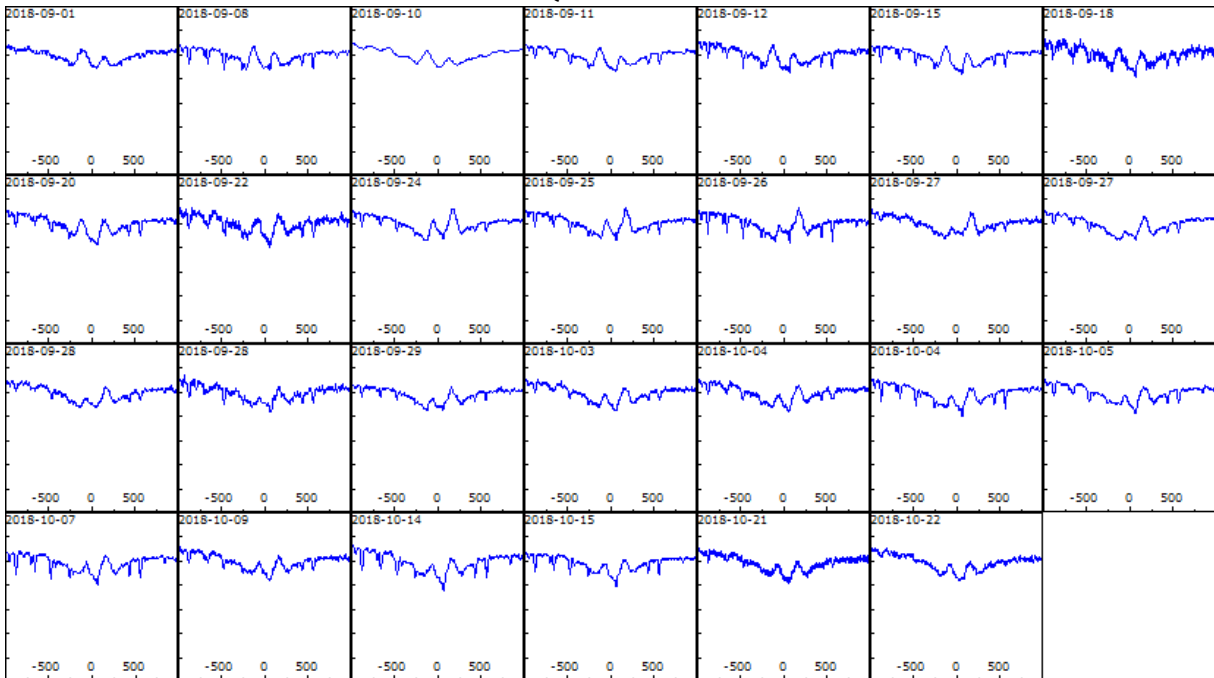
lam Cyg 1mo



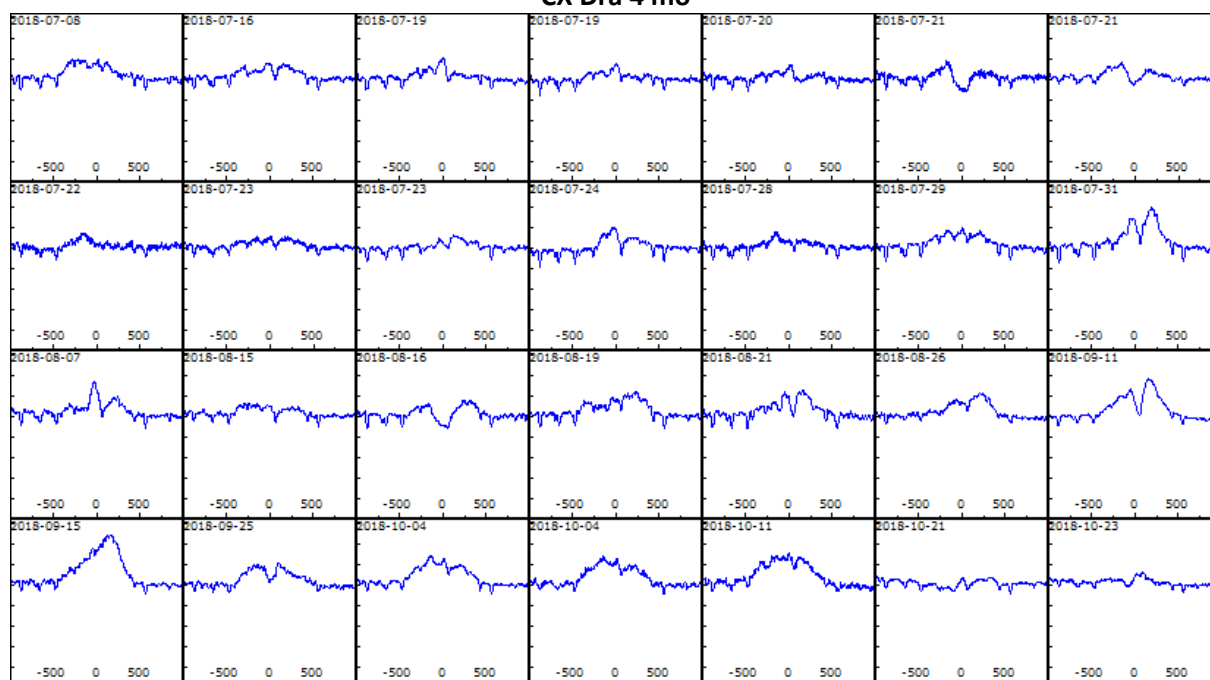
28 Cyg 2mo



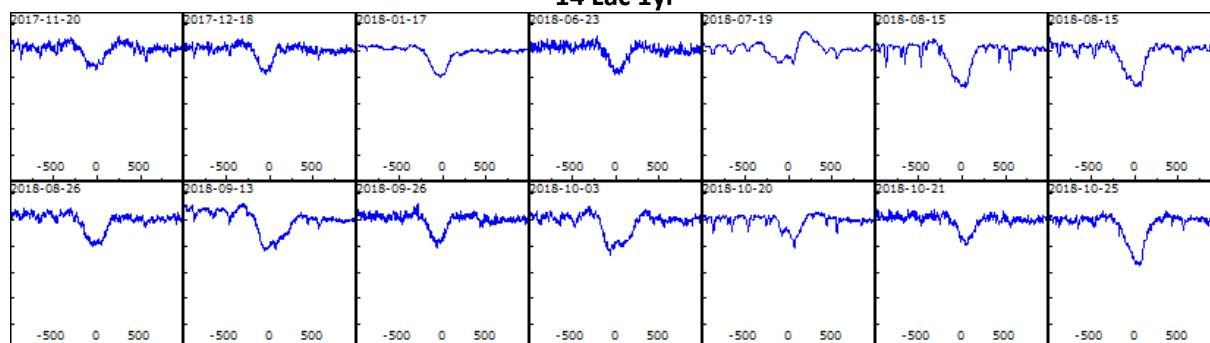
QR Vul 2mo



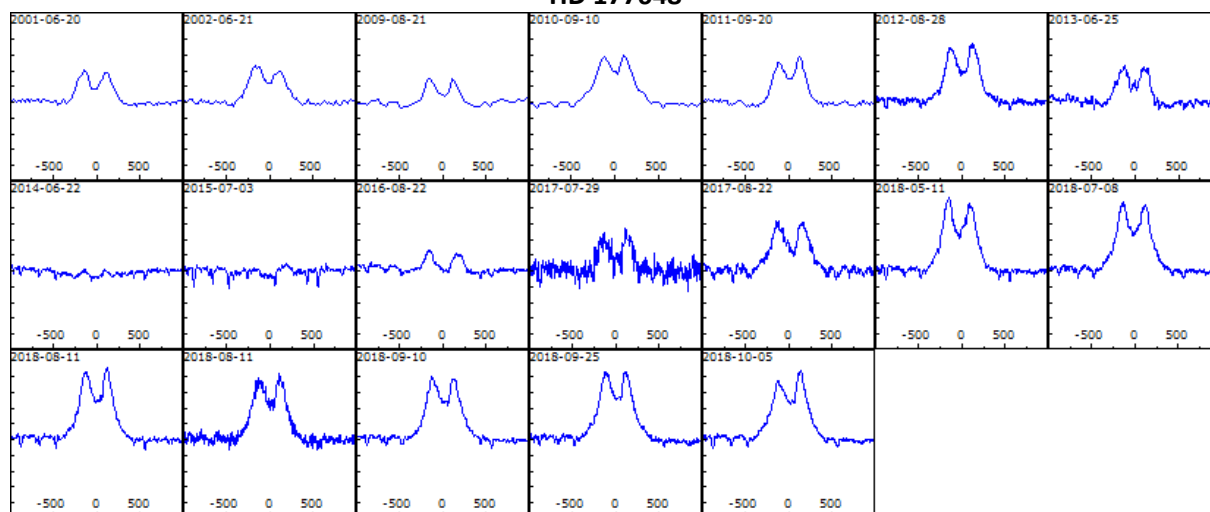
CX Dra 4 mo



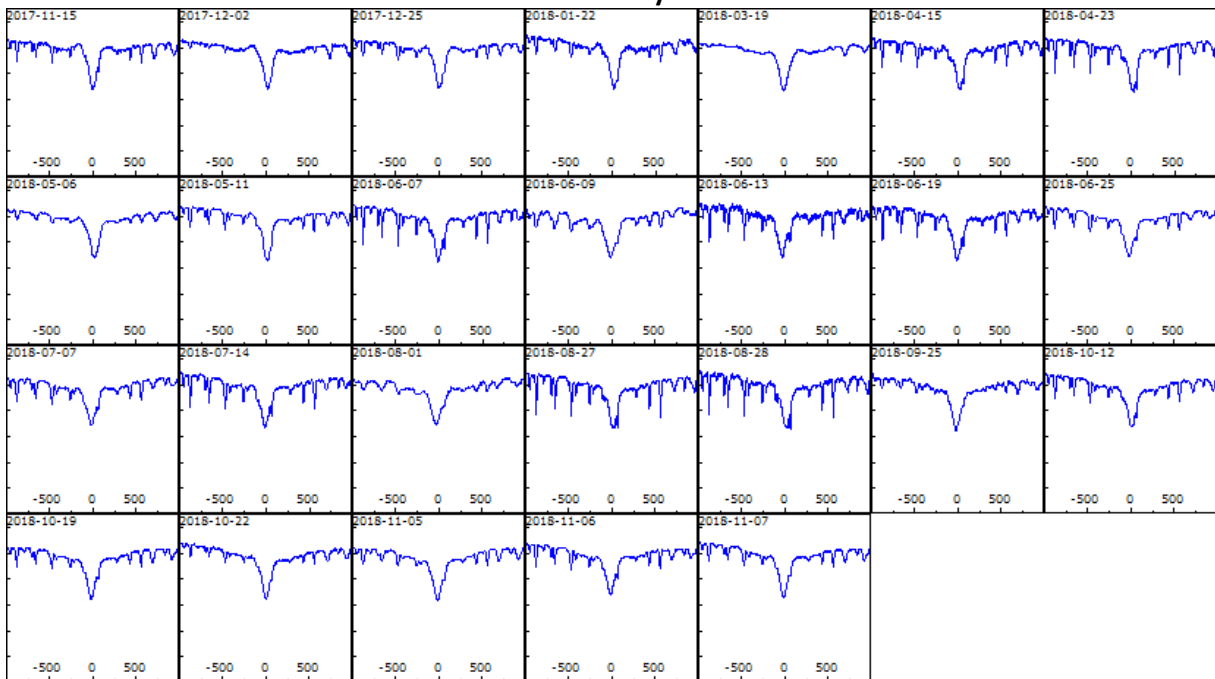
14 Lac 1yr



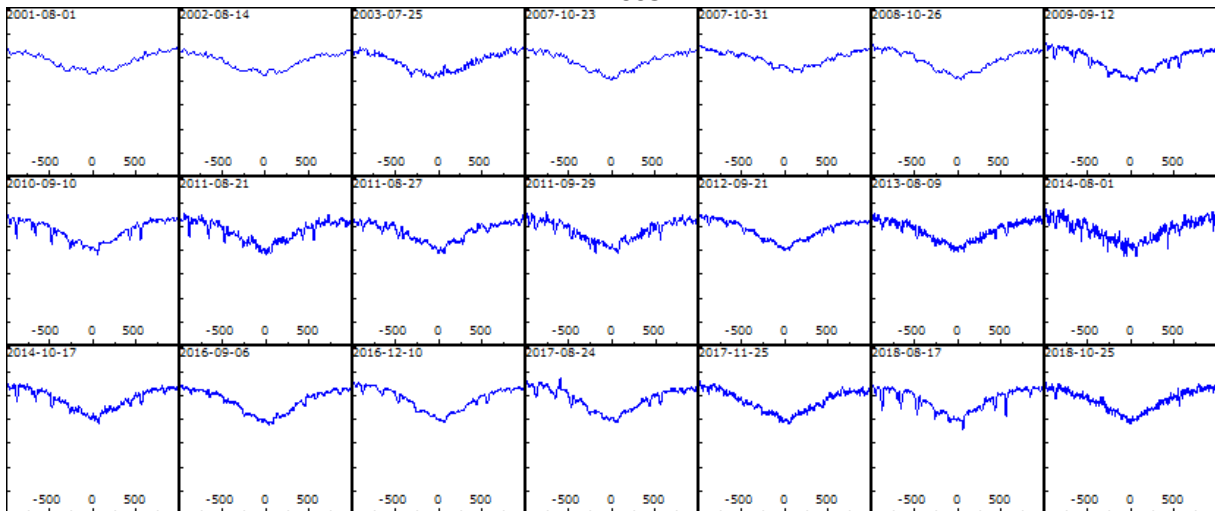
HD 177648



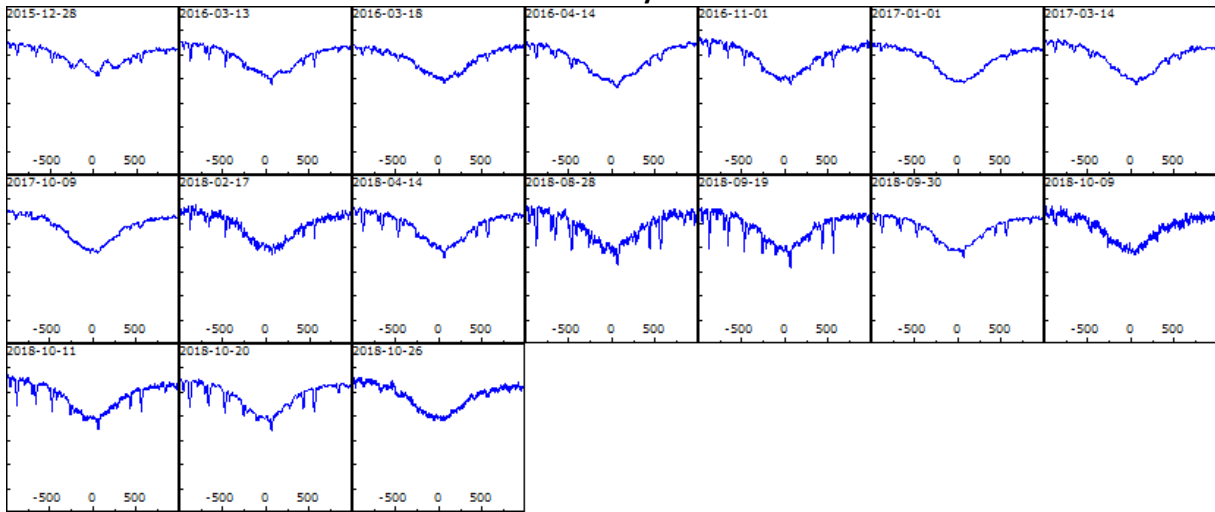
ALFIRK 1yr



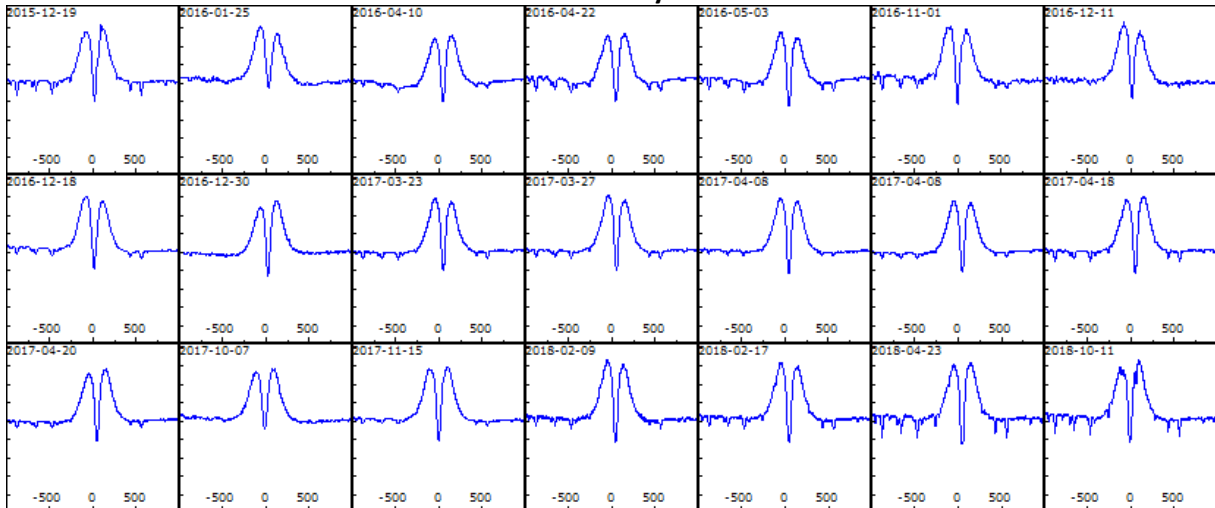
HD 216057



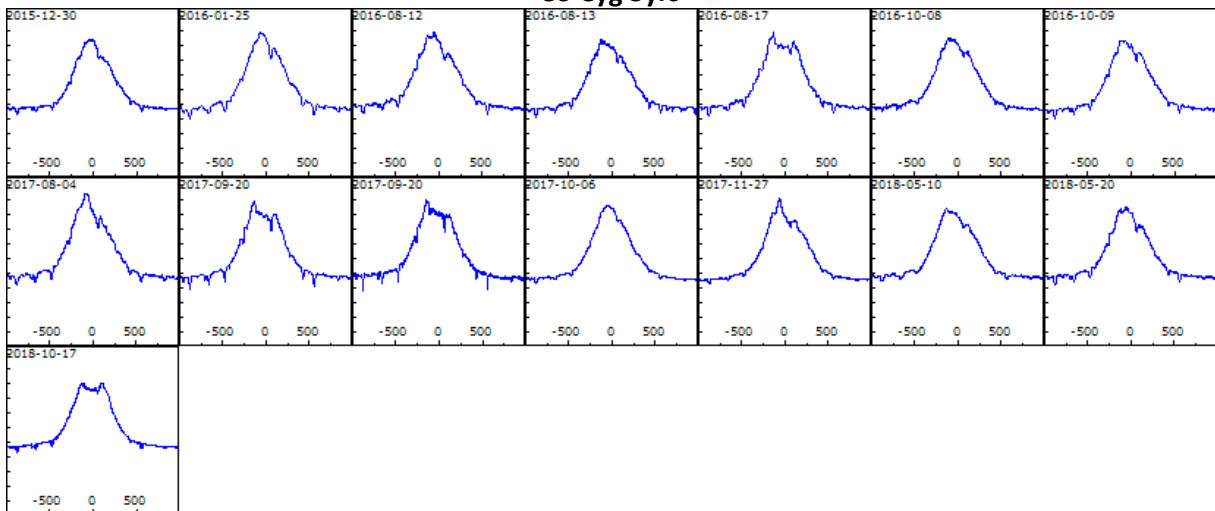
69 Ori 3yrs



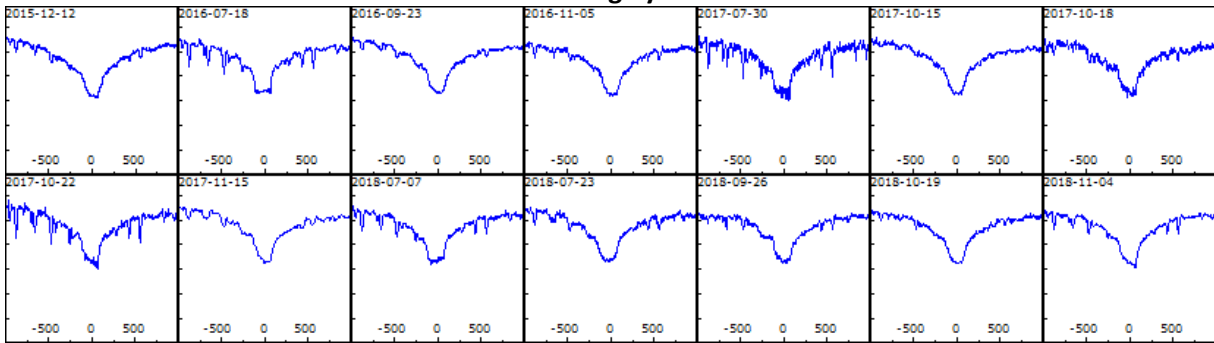
nu Gem 3yrs



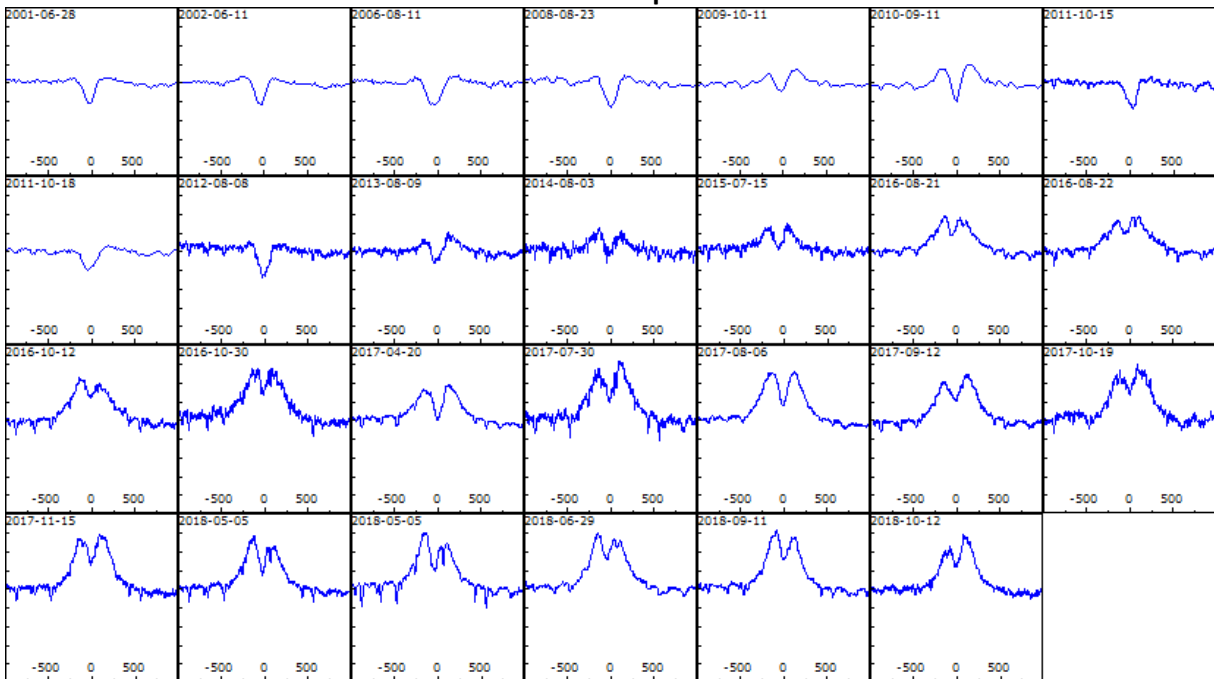
59 Cyg 3yrs



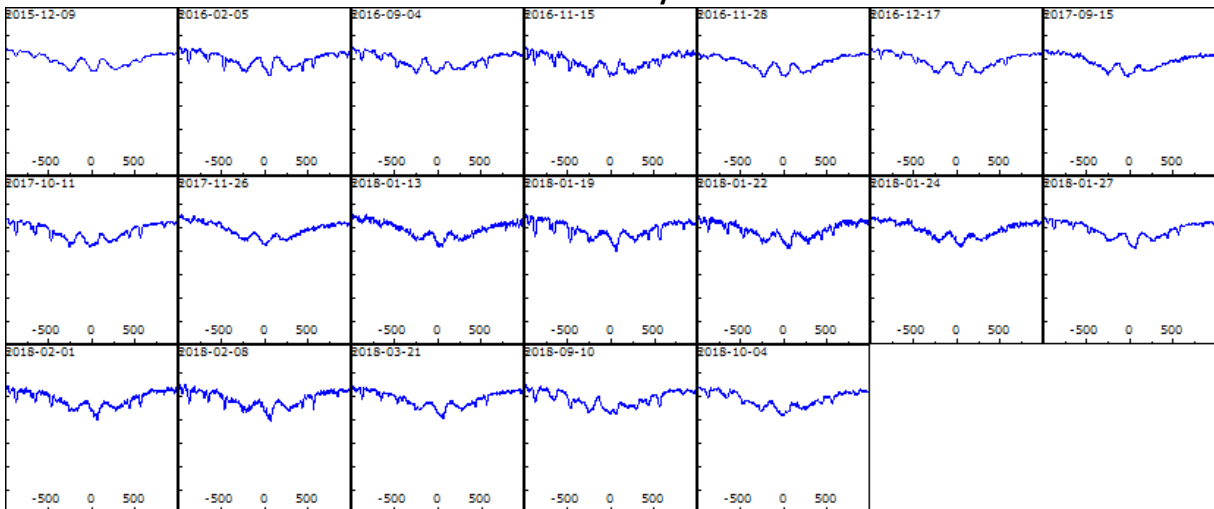
16 Peg 3yrs



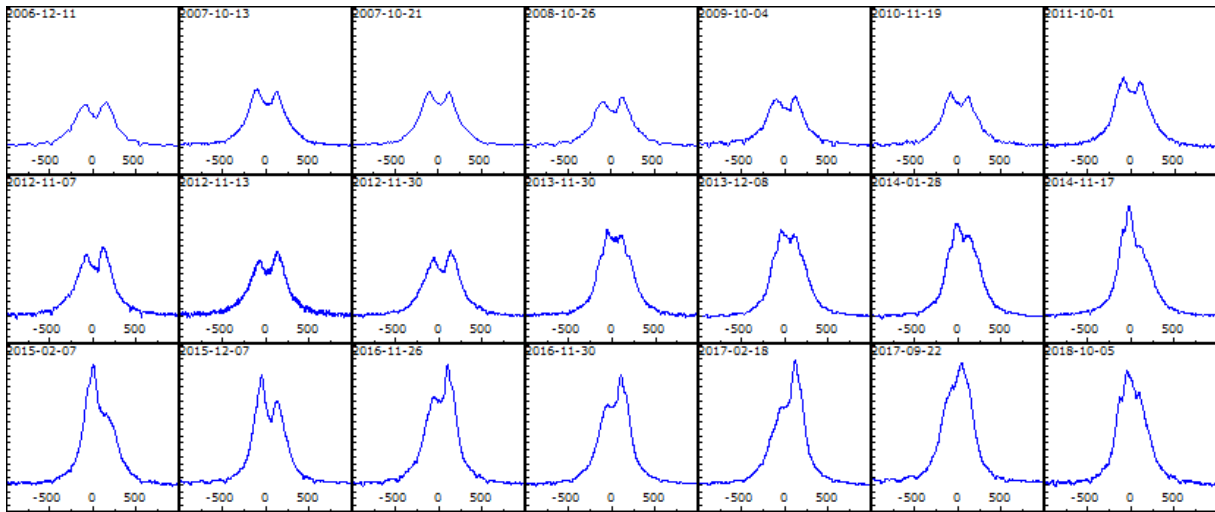
V421 Cep



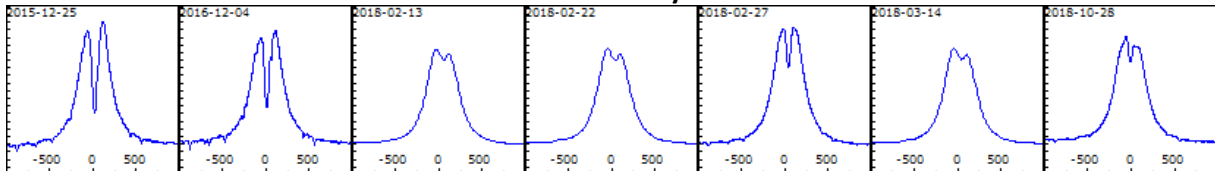
MEROPE 3yrs



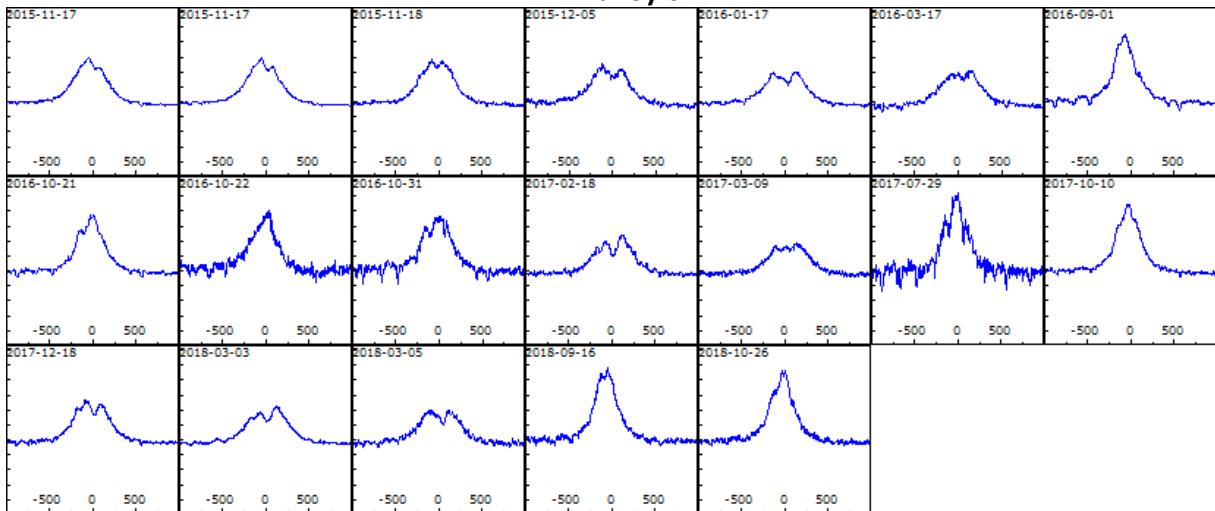
228 Eri



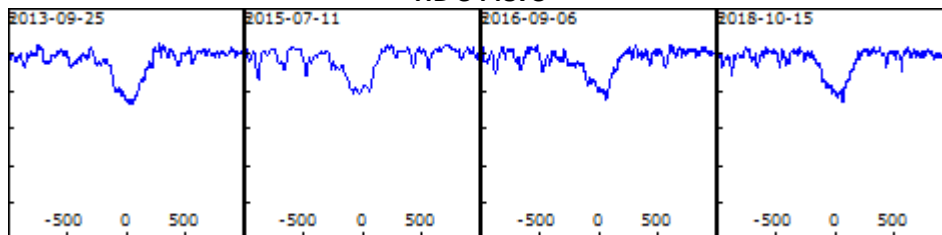
bet Mon A 3yrs



12 Aur 3yrs

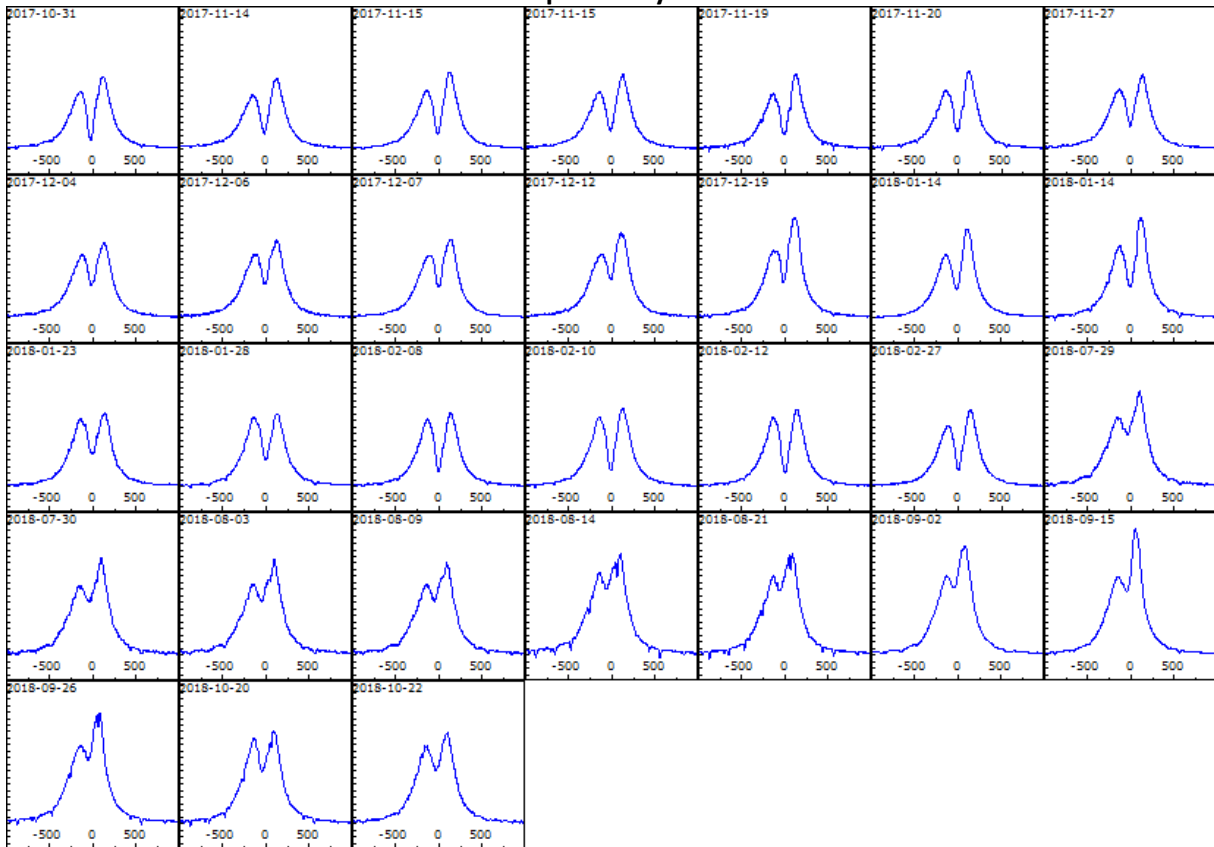


HD 344873

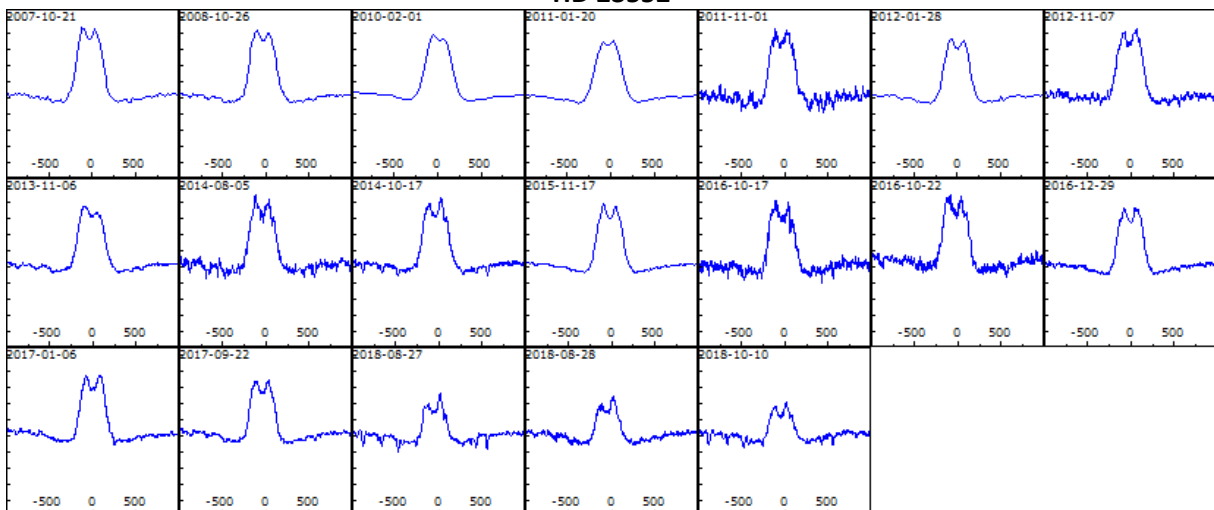


Emission decrease of H-alpha line

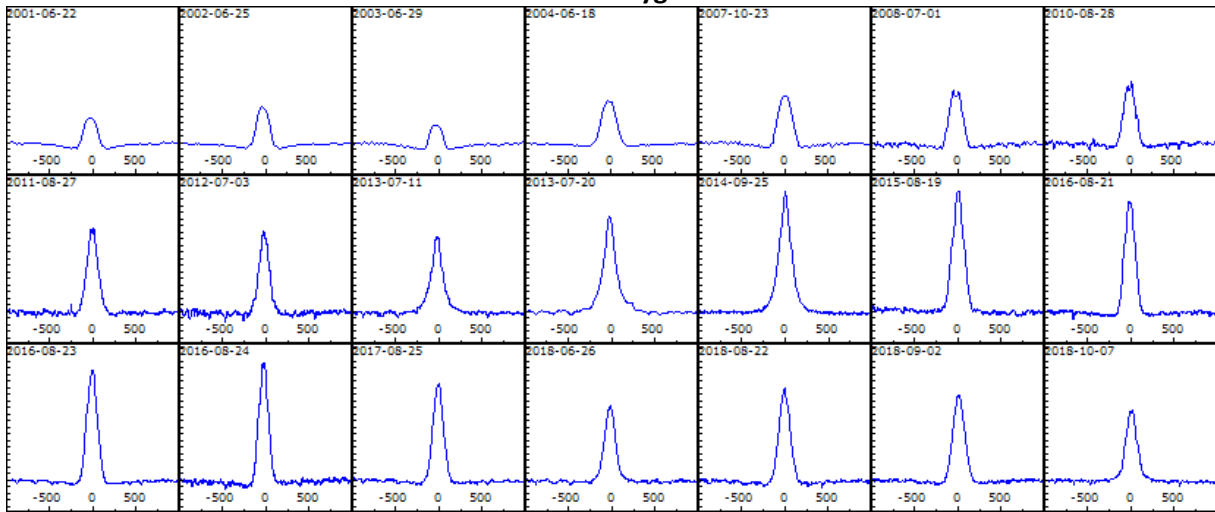
phi Per 1yr



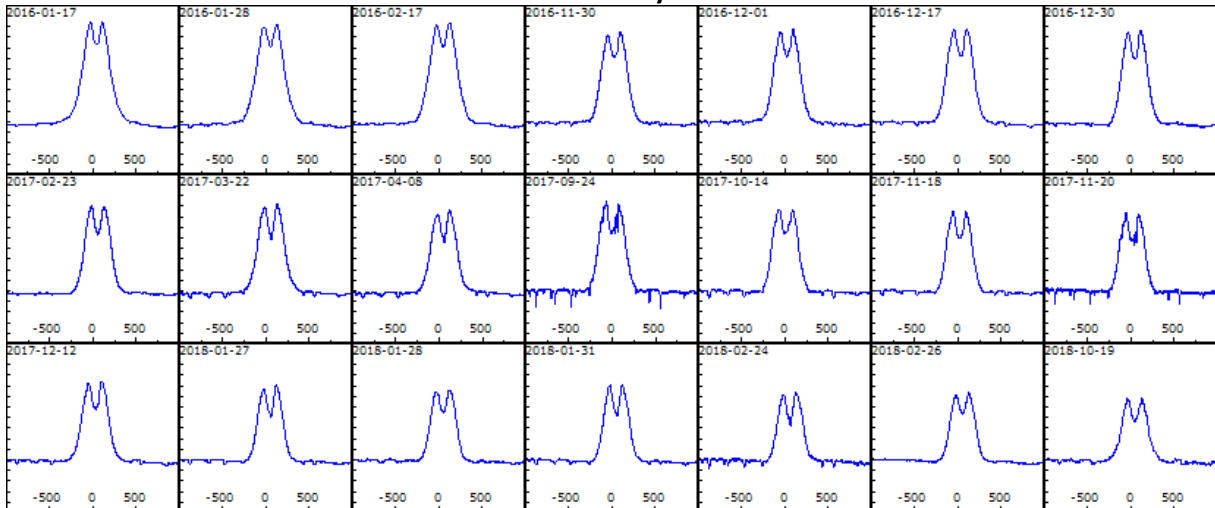
HD 23552



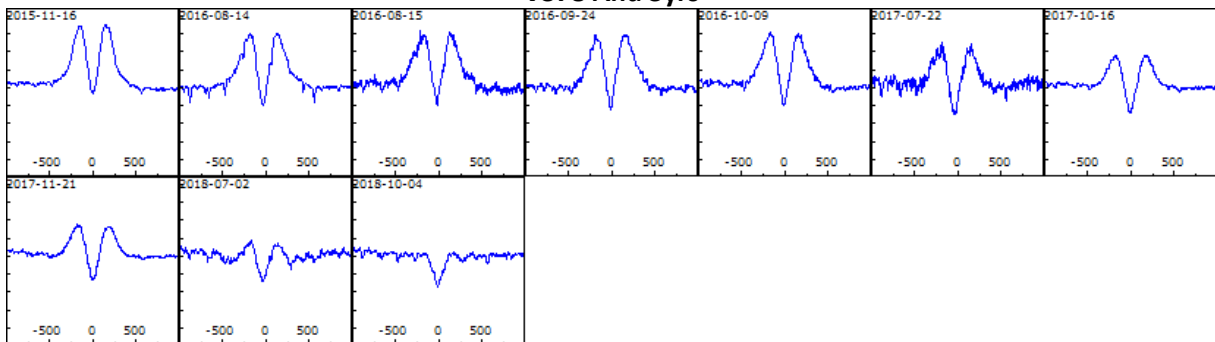
V568 Cyg



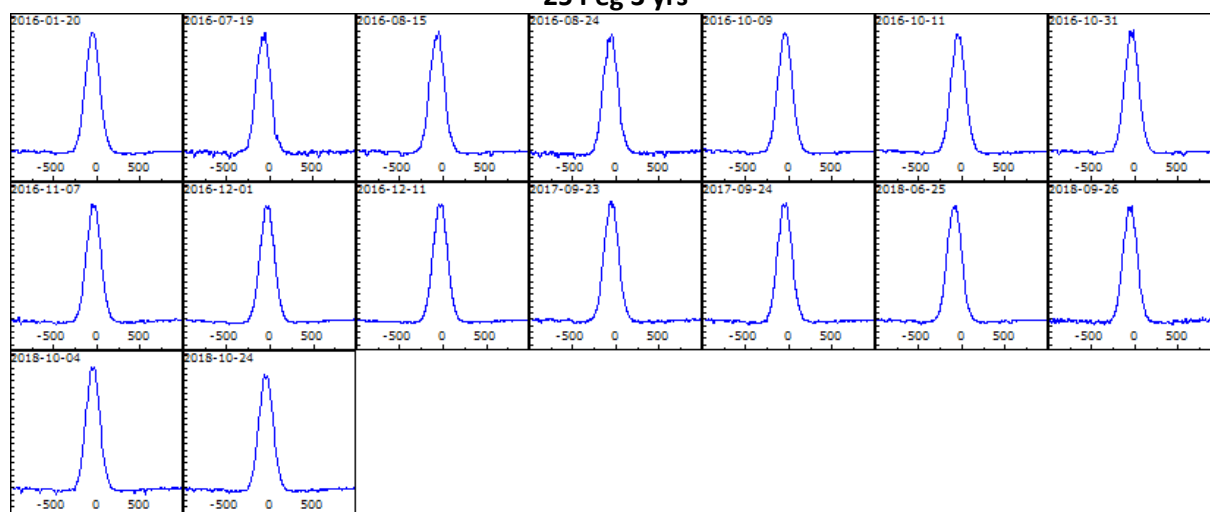
ome Ori 3yrs



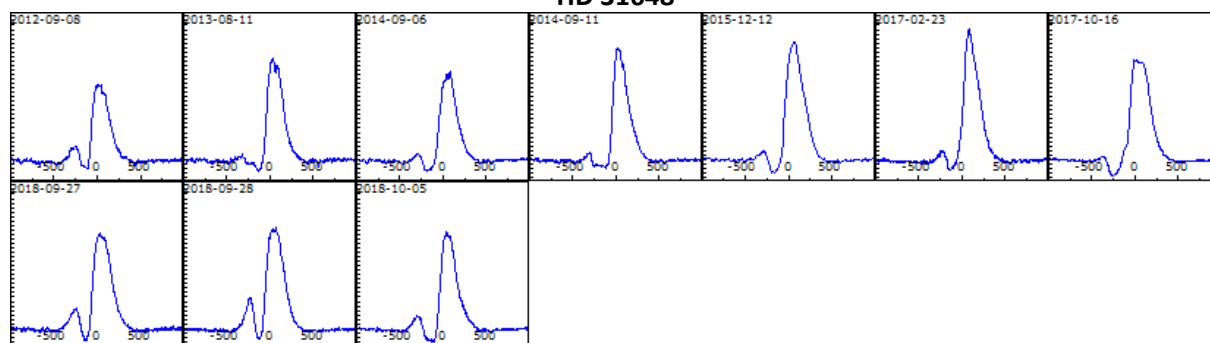
V378 And 3yrs



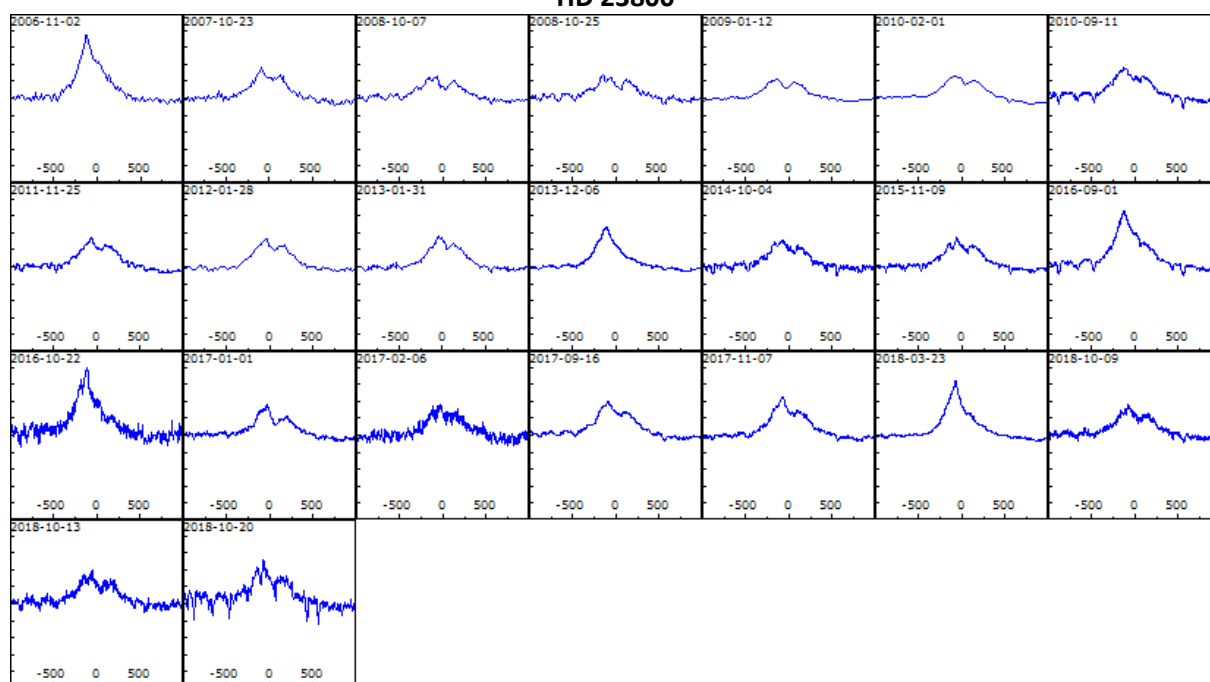
25 Peg 3 yrs



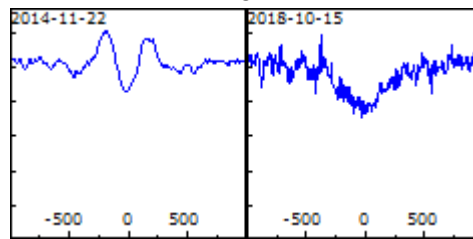
HD 31648



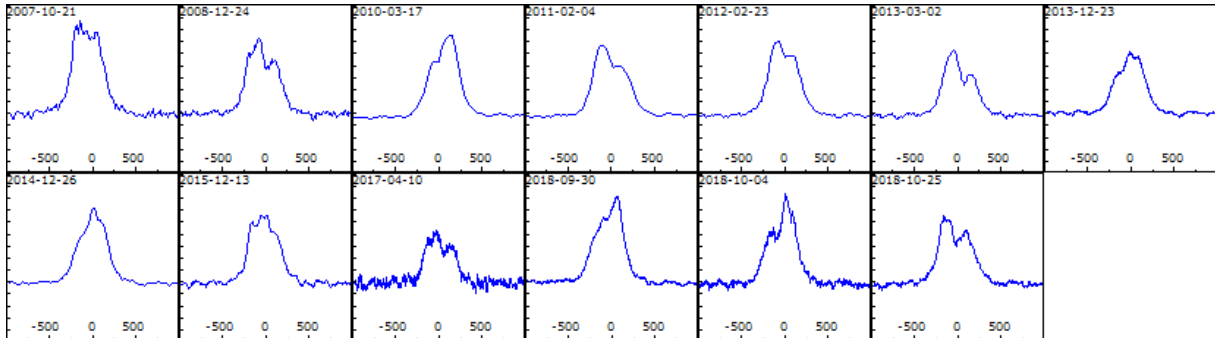
HD 23800



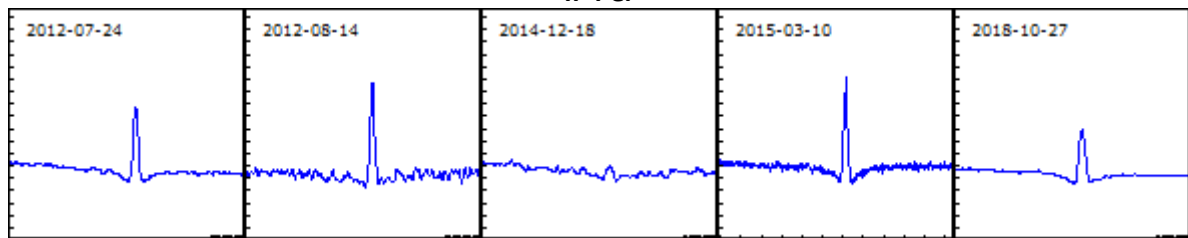
BD+62 11



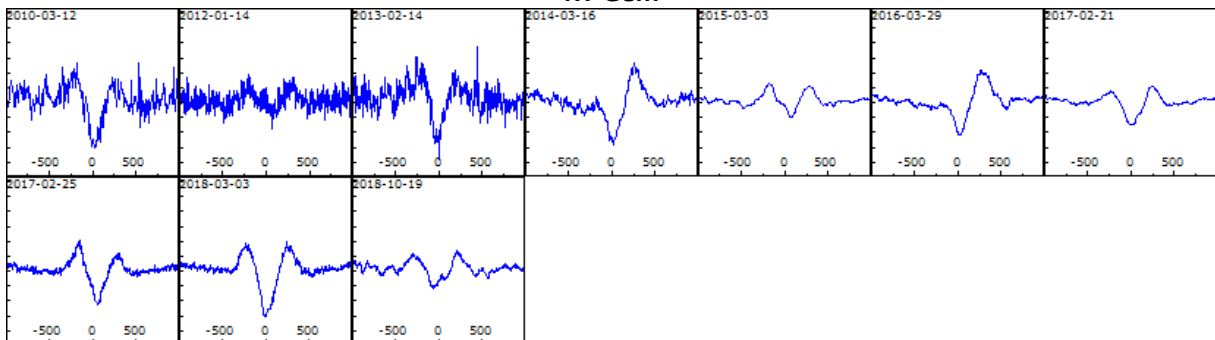
V415 Aur



IP Per



RY Gem



Thumbnails are generated with a script. As the date of preparation of this report is not the end of October, some spectra from November may have been included. Script will be fixed in the future. November spectra shown will still be included in the activity of November.

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/>