

BeSS report – March 2018

Data compiled by Valérie Desnoux – H-alpha monitoring

- 76 stars were observed
- 14 Observers contributed this month
- 145 Spectra

Observers...

Observateur	Nb spec
GARDE	28
Daglen	25
Graham	24
HOUPERT	15
Guarro Fló	13
Sawicki	7
James	6
bertrand	5
Fosanelli	4
de Bruin	4
Waldschlaeger	4
KREIDER	4
Thizy	4
Bohlsen	2

Events of the month...

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

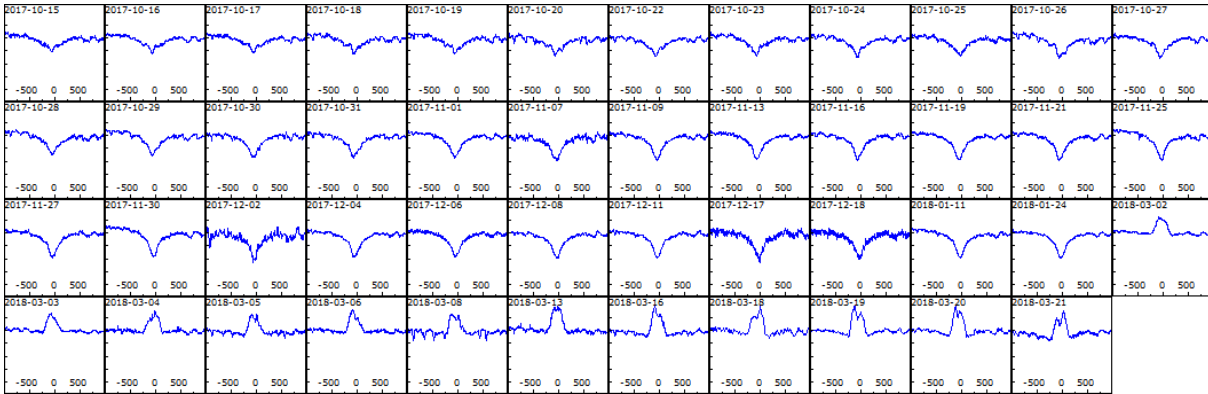
EE	ME	DE	EE	ME	DE
V442 And	zet Tau	OT Gem	B2IVe	B2IVe	B2Ve
CT Cam	FF Cam	V744 Mon	B2Vne	B9e	B1.5Ve
HD 23800	HD 45995	QR Vul	B1IVe	B2Vnne	B3Ve
PZ Gem	del Sco	25 Ori	O9pe	B0.2IVe	B1Vpe
HD 237091	CX Dra	AX Mon	B1Vnnpe	B2.5Ve	B2IIIpshev
BN Gem	ALFIRK	12 Aur	O8Vpev	B2IIIev	B5e
	HD 24479	HD 29866		B9.5Ve	B8IVne
	eta Ori	56 Eri		B0.5Ve	B2Ve
	V420 Pup	HD 57682		B3IVe	O9Ve
	bet Mon A	HD 51506		B3Ve	B2.5IVe
	RY Gem			A2Ve	
	HD 81357			B9e	
	V743 Mon			B7IIIe	
	V1390 Ori			B2Ve	
	V739 Mon			B0.5IVe	

Objects observed

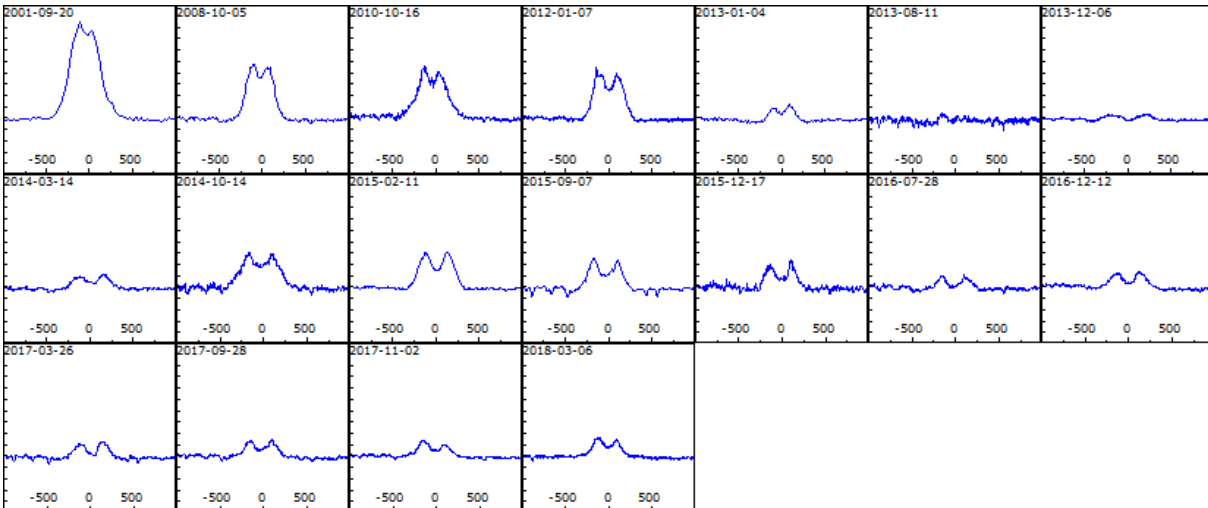
Classique						
gam Cas	kap Dra	53 Boo	psi Per	HD 21620	RY Gem	FW CMa
zet Tau	HD 79066	4 Her	eps Cas	AX Mon	HD 81357	V1390 Ori
PLEIONE	17 Sex	CX Dra	ELECTRA	2 Ori	HD 44637	HD 57682
V442 And	HD 70340	HD 50658	25 Ori	12 Aur	BN Gem	HD 43264
OT Gem	phi Leo	CQ UMa	HD 24479	CT Cam	PZ Gem	HD 51506
5 Cnc	HD 44783	HD 91120	lam Eri	HD 29866	V695 Mon	HD 47160
FF Cam	HD 64109	15 Mon	ALCYONE	HD 23800	HD 127617	V739 Mon
tet CrB	HD 45995	z Her	MEROPE	120 Tau	V743 Mon	V420 Pup
bet CMi	V744 Mon	HD 174179	11 Cam	HD 42477	QQ Gem	HD 50820
PHECDA	del Sco	HD 22780	eta Ori	HD 43913	HD 237091	bet Mon A
zet Crv	QR Vul	ALFIRK	V1369 Ori	HD 53048	56 Eri	

Emission increase since last observations

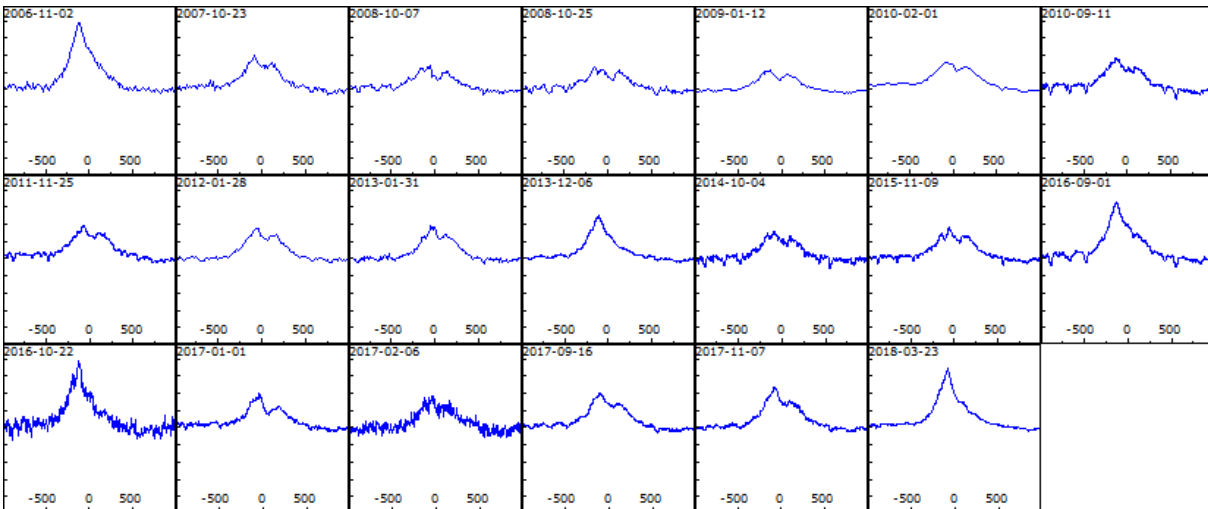
V442 And 6 months



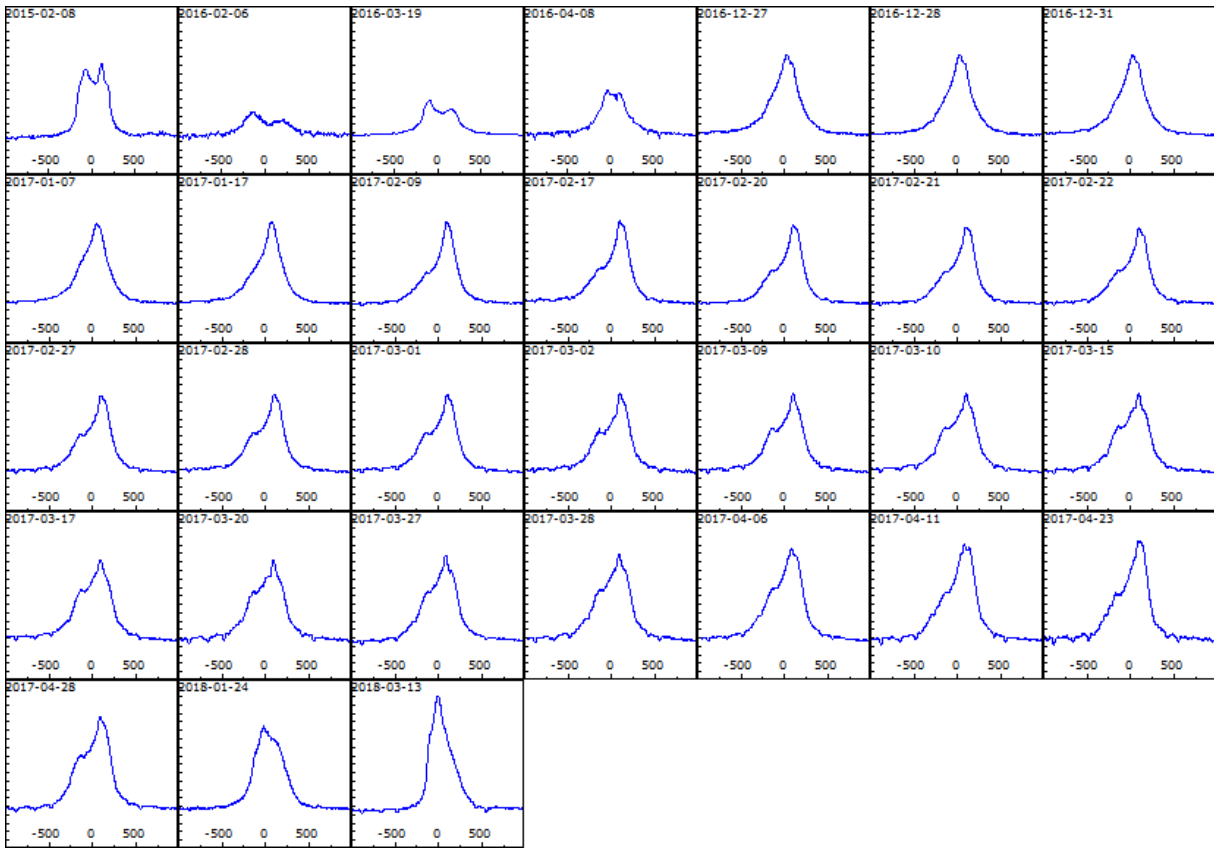
CT Cam



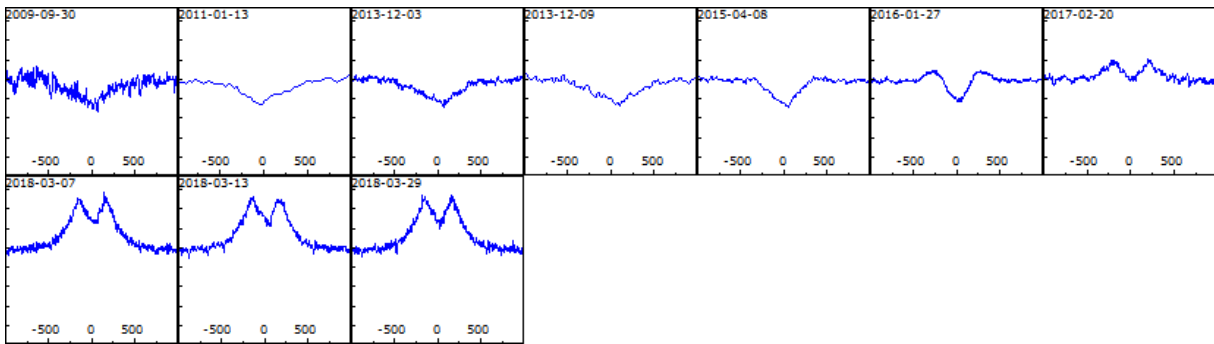
HD 23800



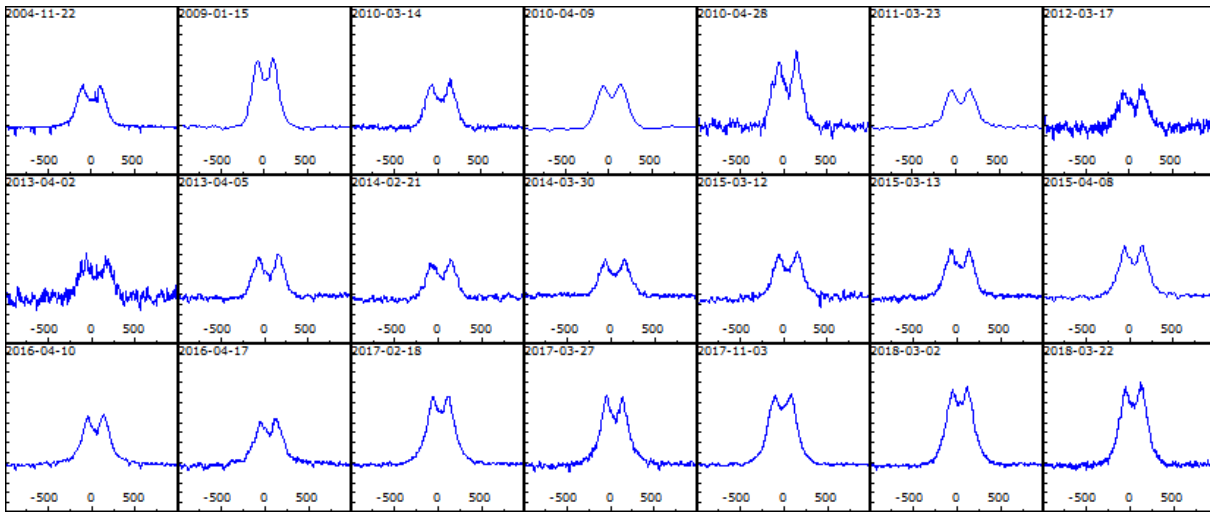
PZ Gem



HD 237091

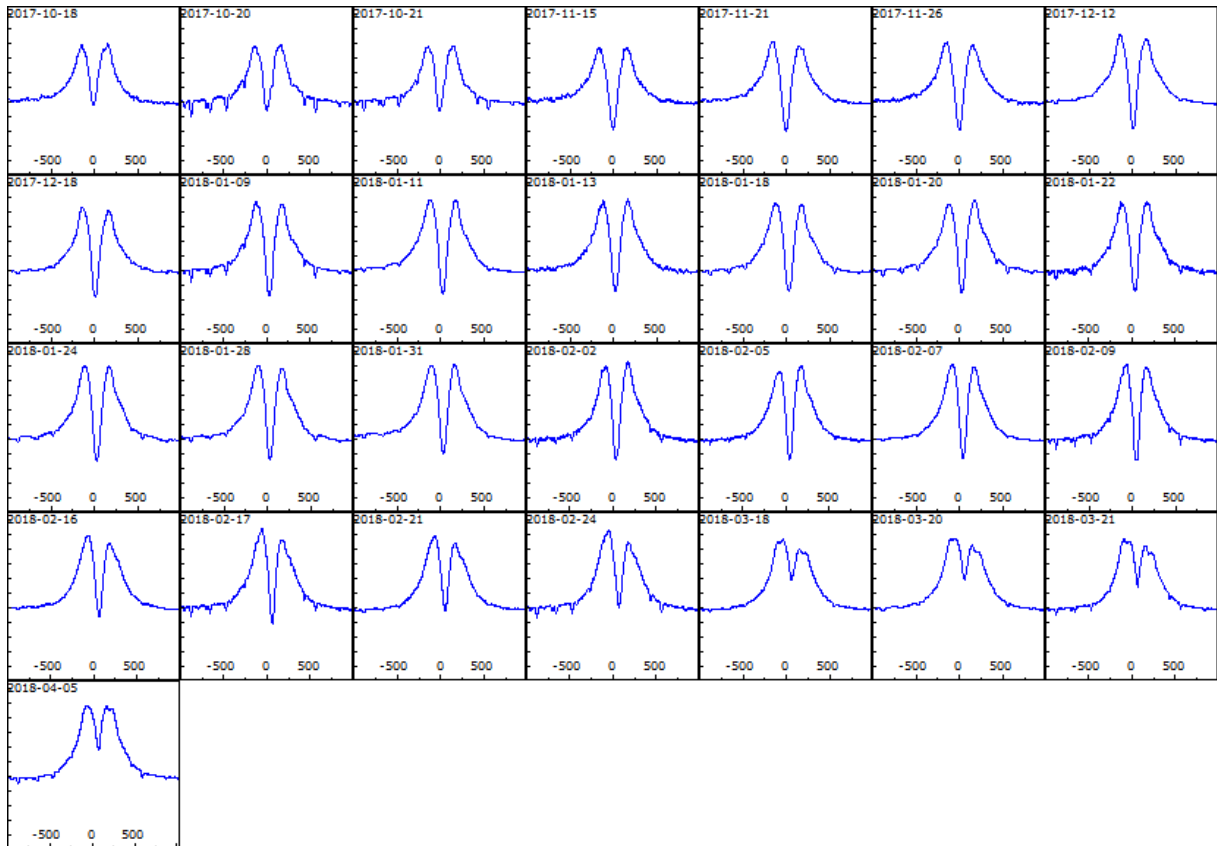


BN Gem

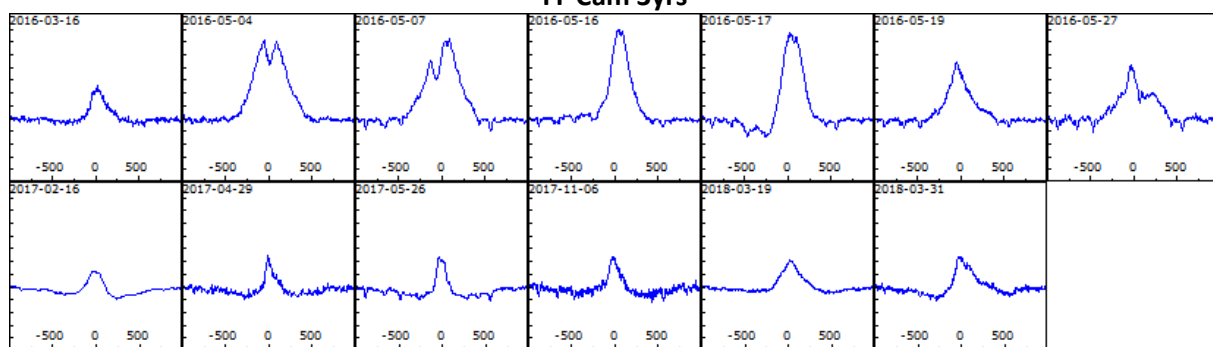


Moderate evolutions of H-alpha line

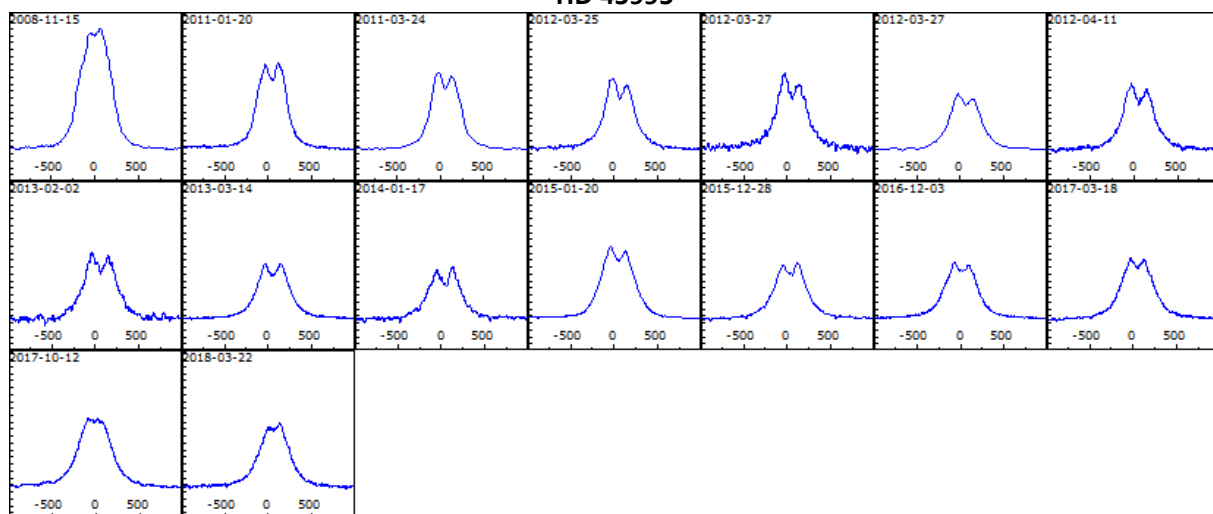
zet Tau 6 months



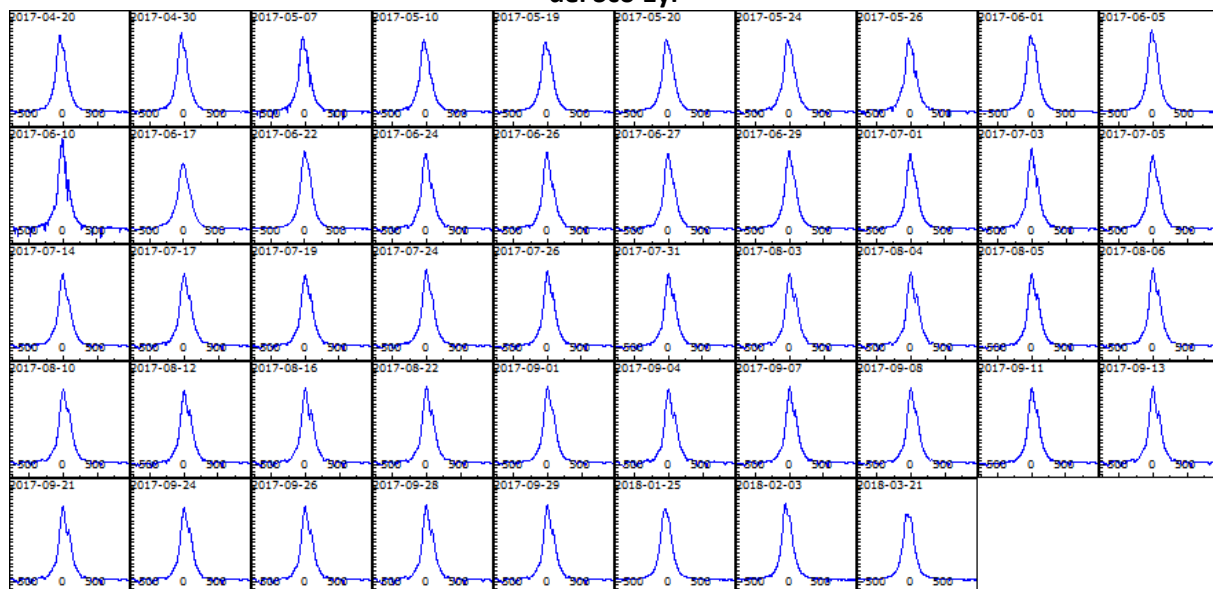
FF Cam 3yrs



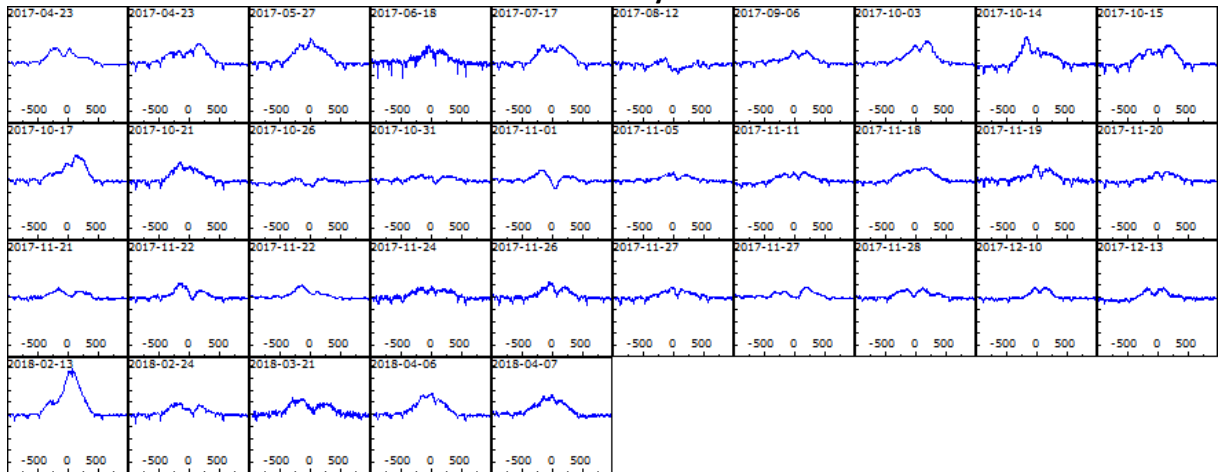
HD 45995



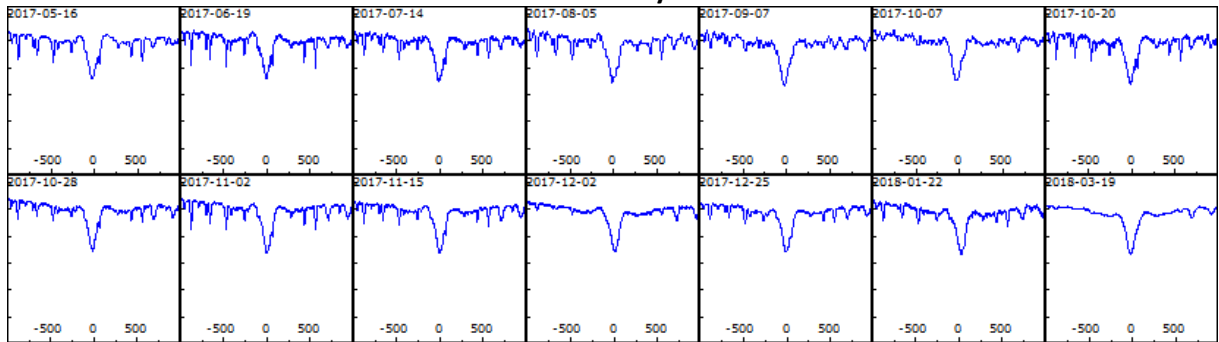
del Sco 1yr



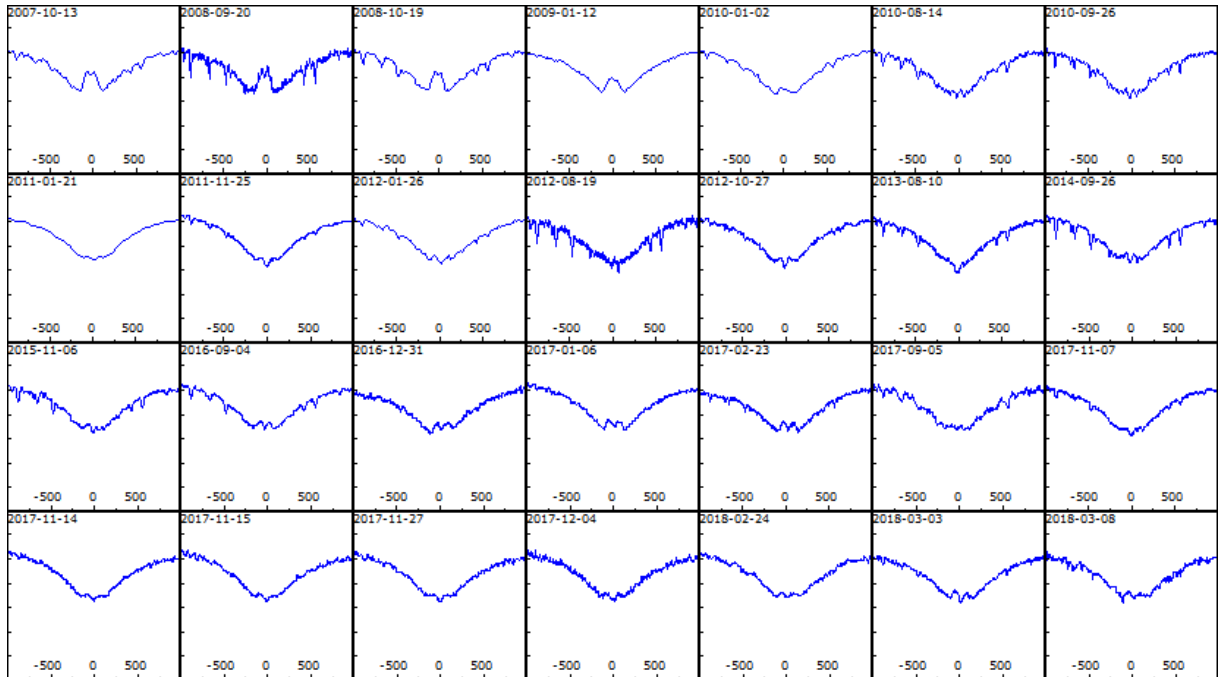
CX Dra 1yr



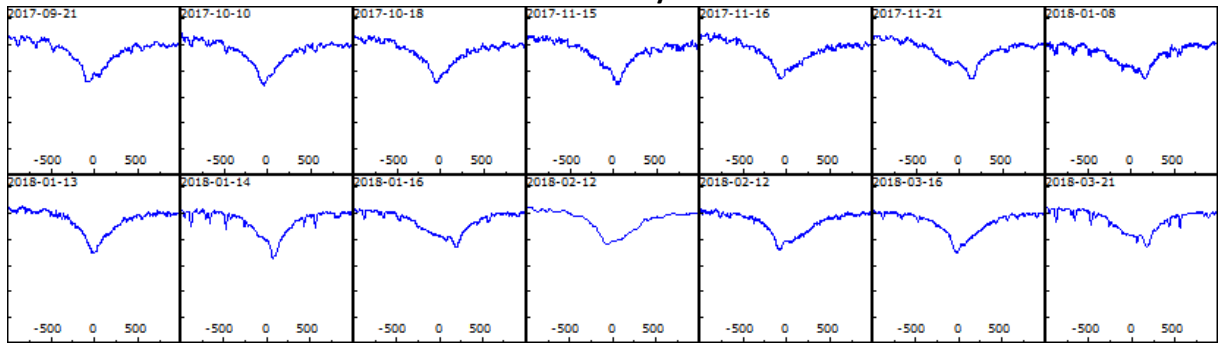
ALFIRK 1yr



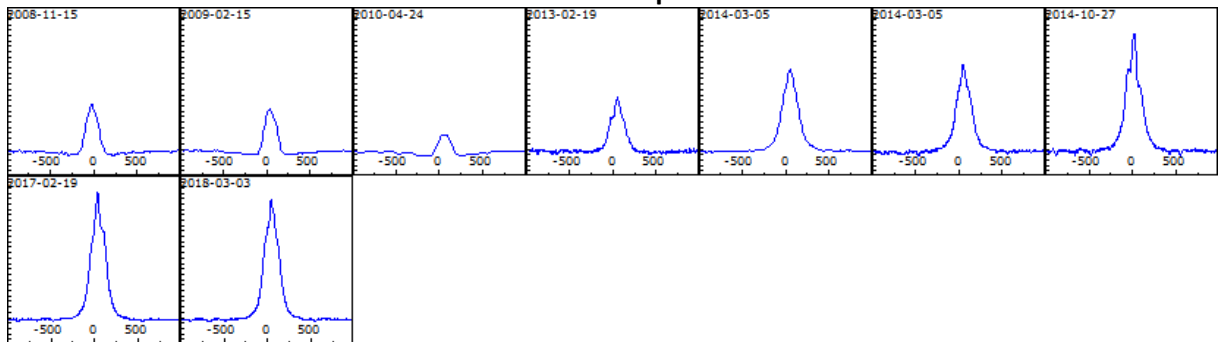
HD 24479



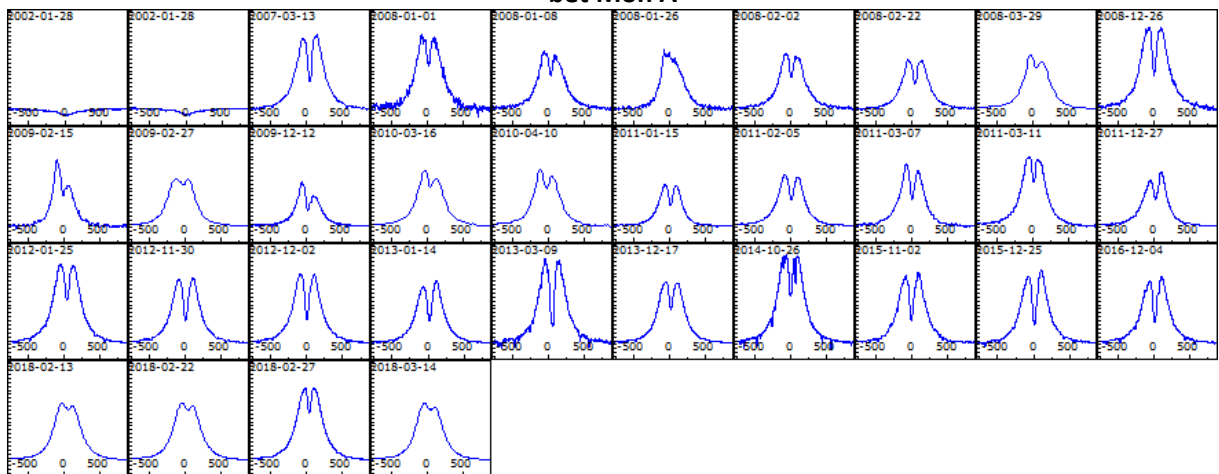
eta Ori 1yr



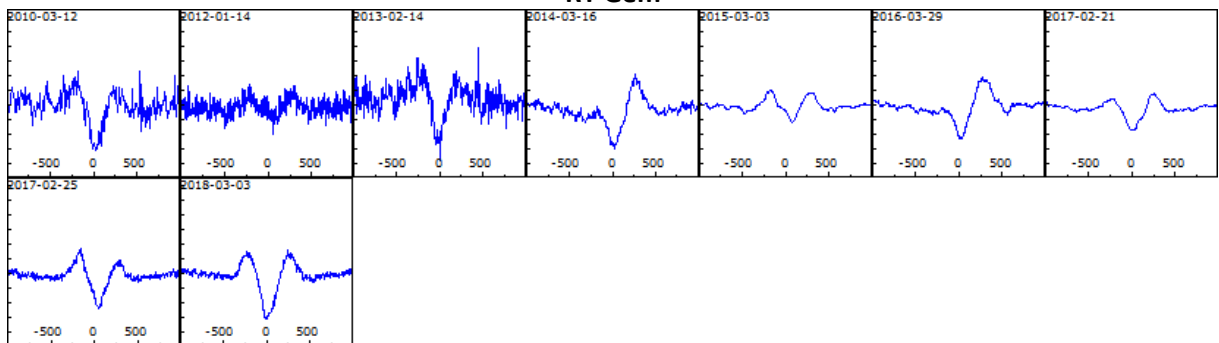
V420 Pup



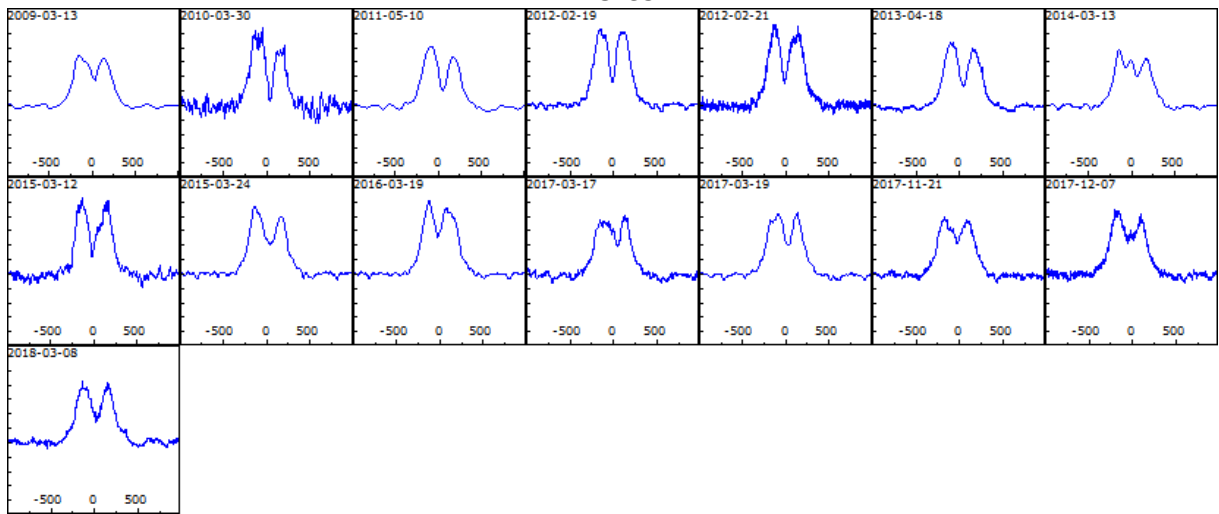
bet Mon A



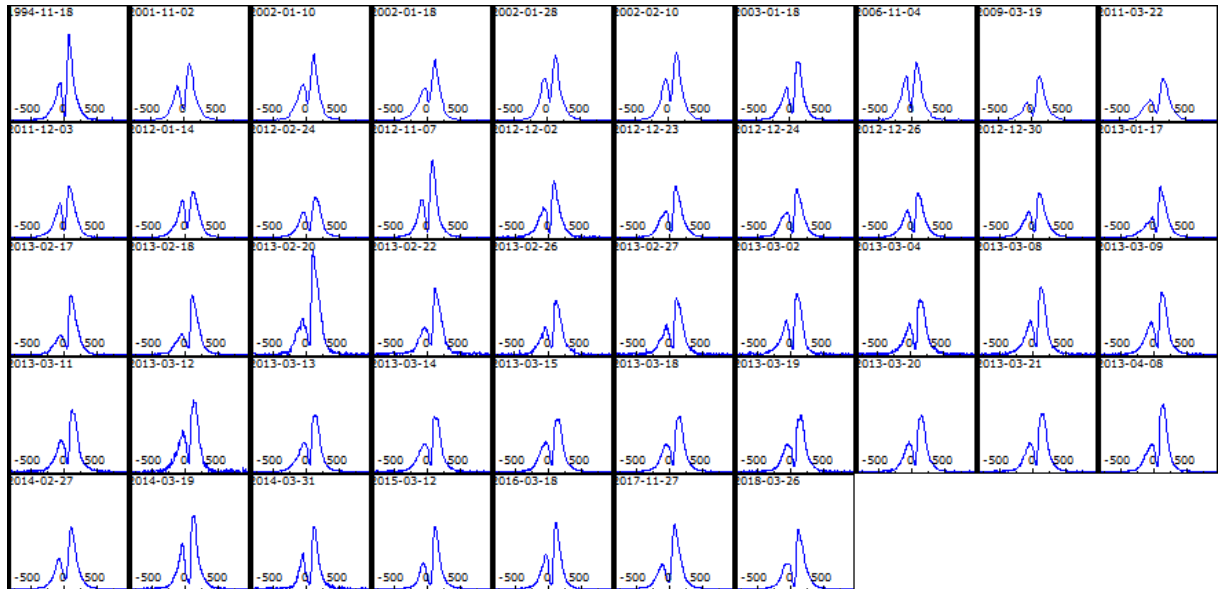
RY Gem



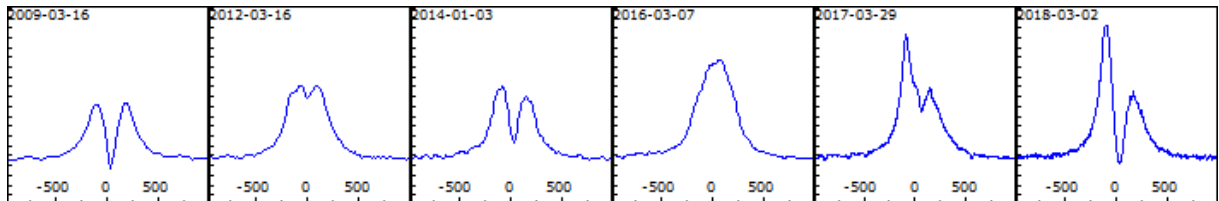
HD 81357



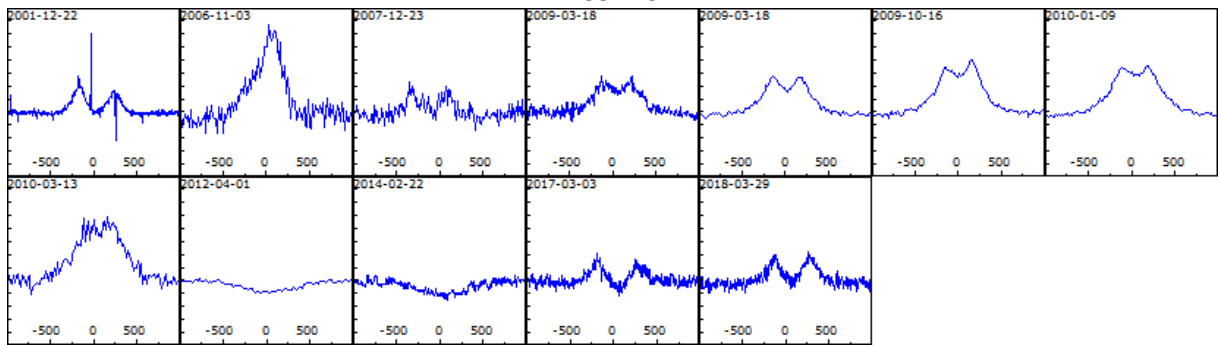
V743 Mon



V1390 Ori

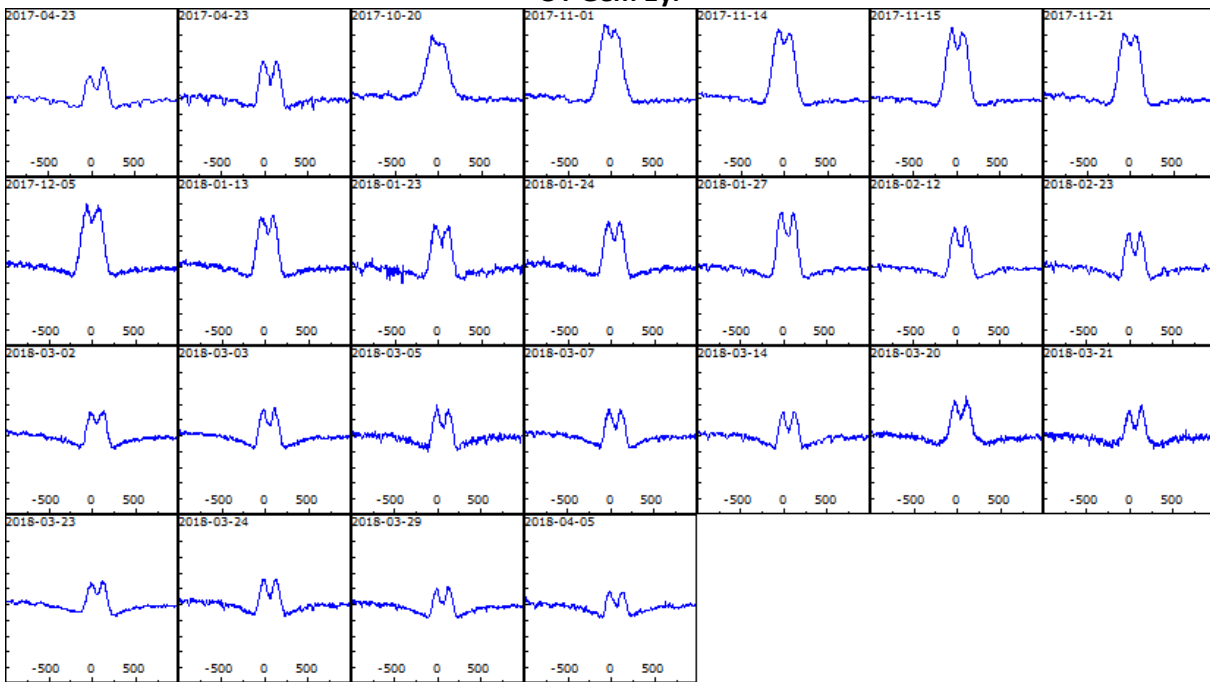


V739 Mon

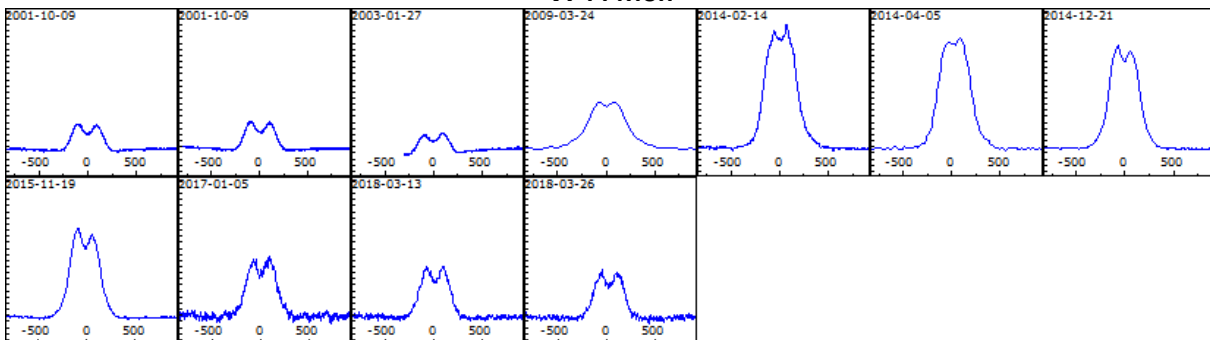


Emission decrease of H-alpha line

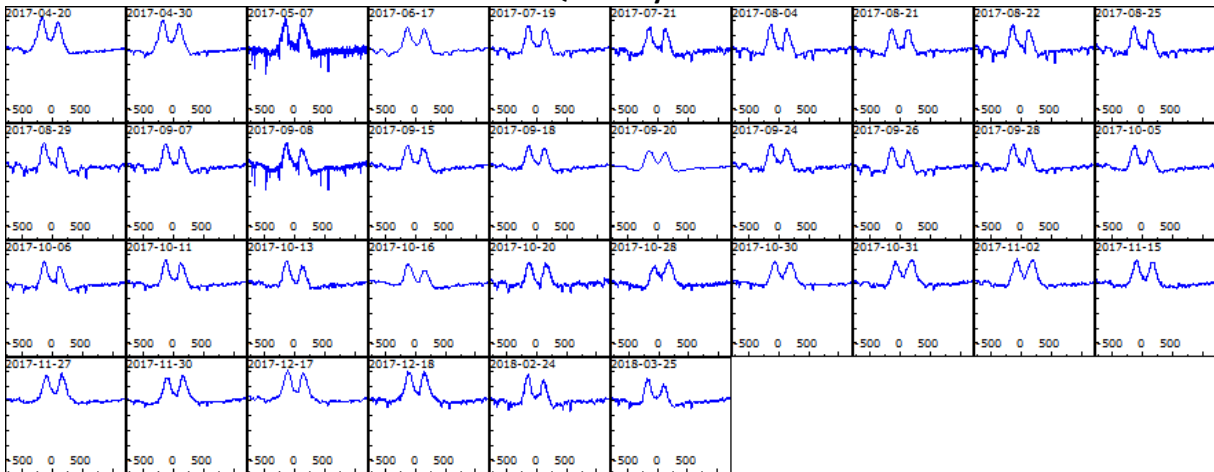
OT Gem 1yr



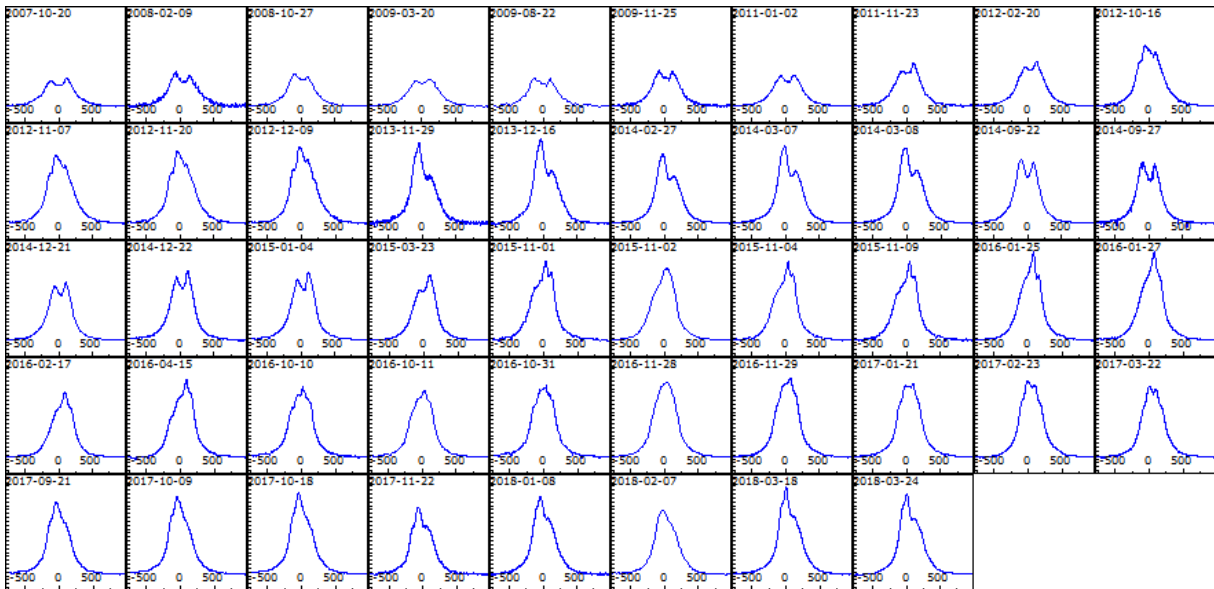
V744 Mon



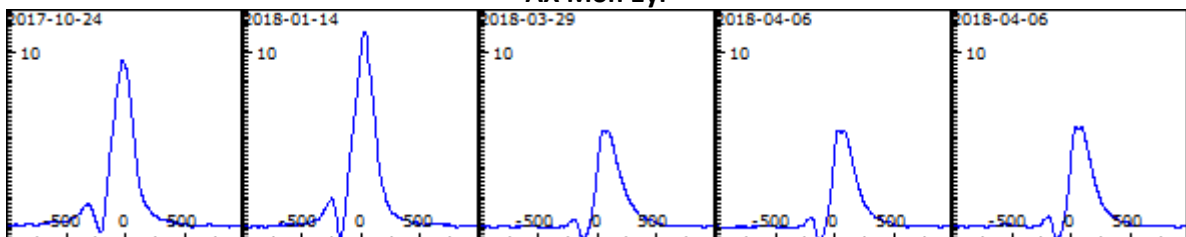
QR Vul 1yr



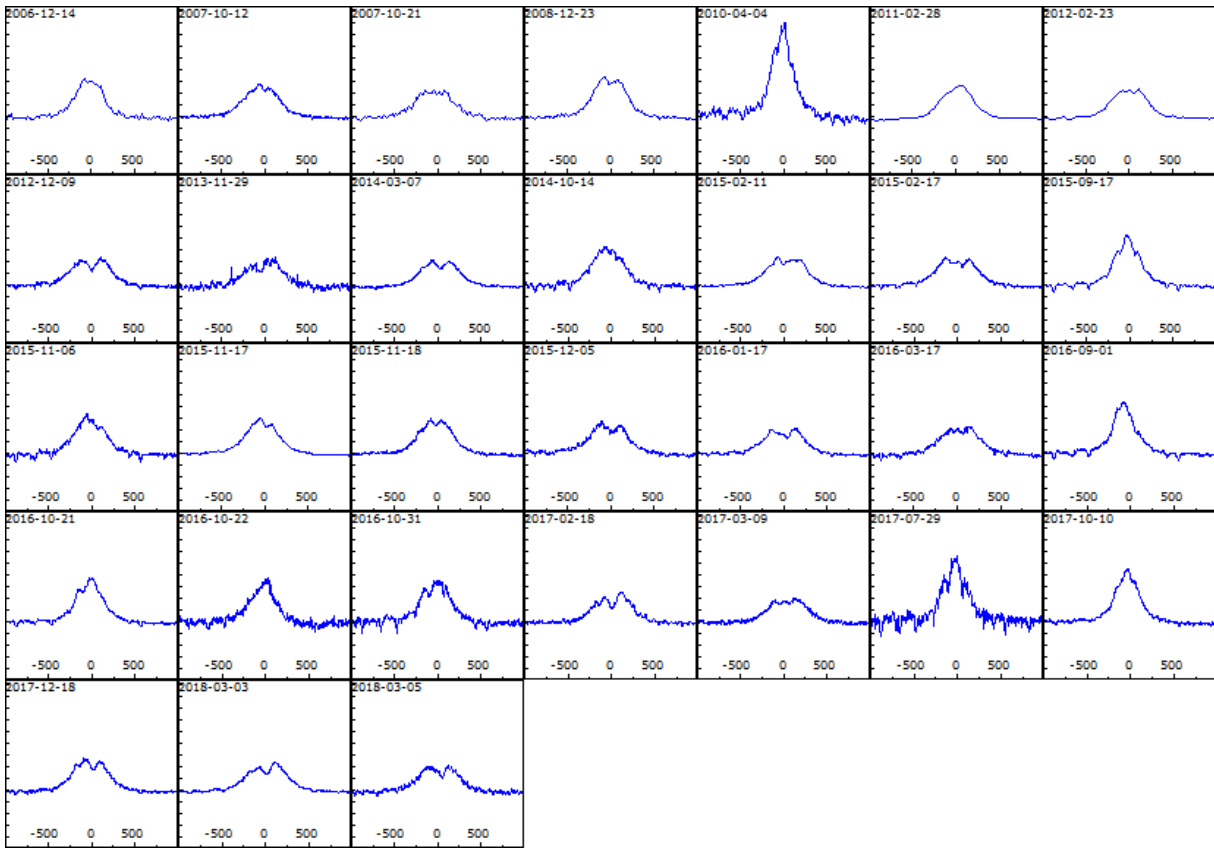
25 Ori



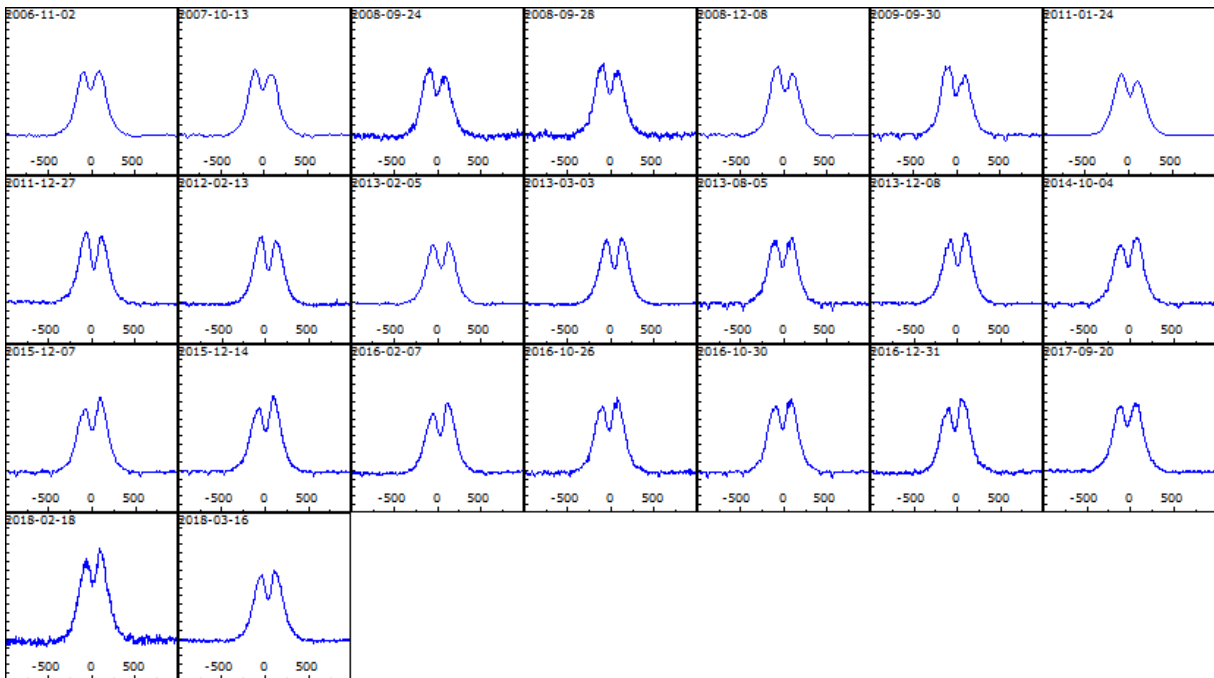
AX Mon 1yr



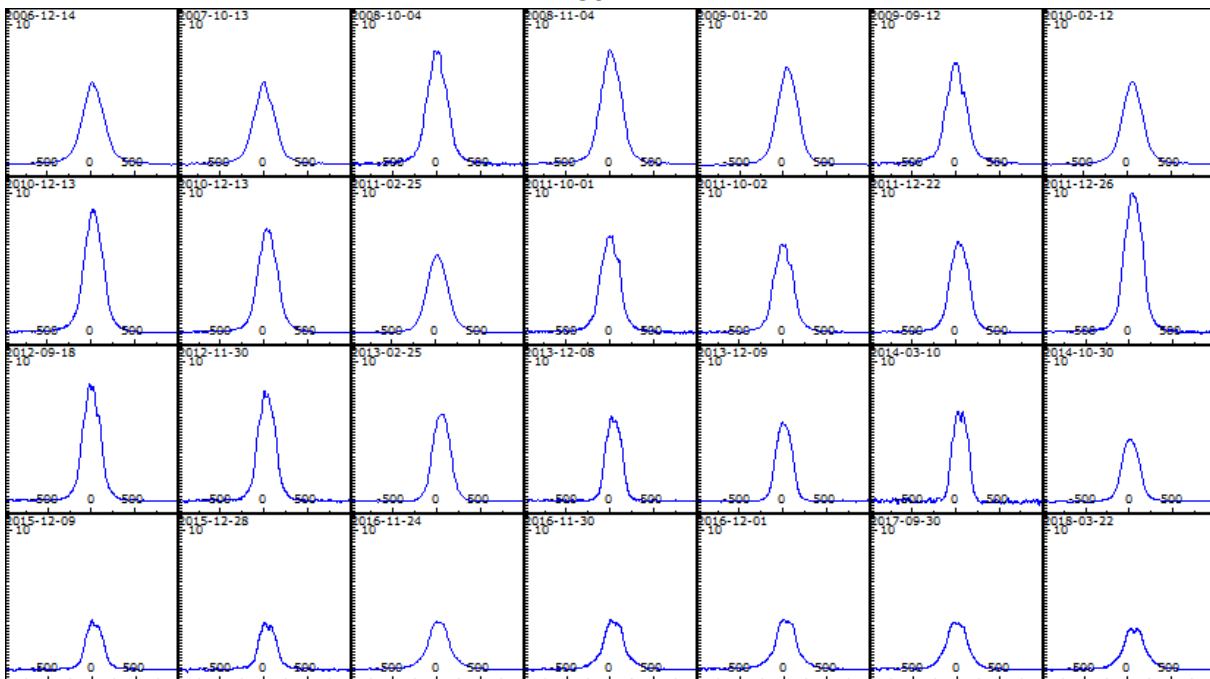
12 Aur



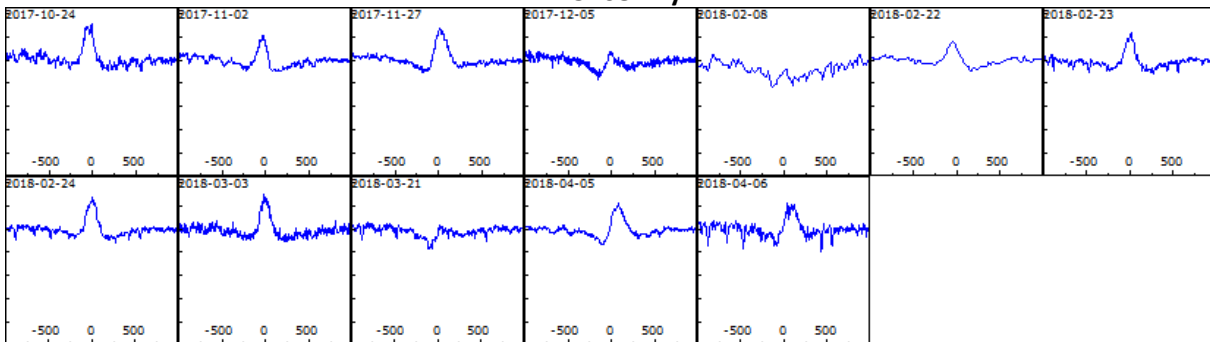
HD 29866



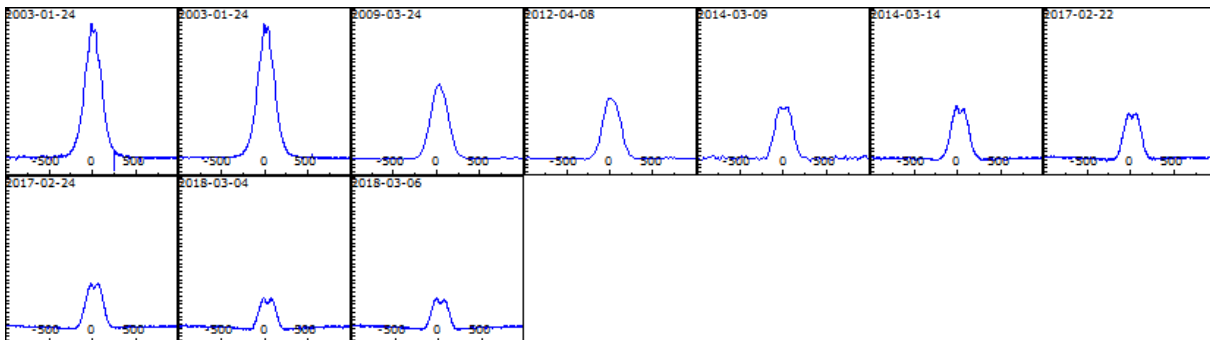
56 Eri



HD 57682 1yr



HD 51506



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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