

BeSS report – March 2019

Data compiled by Valérie Desnoux – H-alpha monitoring

- 105 stars were observed
- 22 Observers contributed this month
- 219 Spectra

Observers...

Observateur	Nb spec
Charbonnel	32
HOUPERT	28
Desnoux	21
GARDE	19
Stiewing	17
Bryssinck	14
KREIDER	13
bertrand	12
Graham	11
Bohlsen	10
Lecocq	8
Guarro Fló	7
DejeanPastor Arlic	5
Fosanelli	5
Dejean	5
Doctor	3
Martineau	2
Favaro	2
Heathcote	2
Van den Broeck	1
Mulato	1
Arlic	1
Total général	219

Events of the month...

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

EE	ME	DE
Iam Cyg	CX Dra	QR Vul
28 Cyg	ups Cyg	V744 Mon
OT Gem	phi Per	V532 Lyr
tet CrB	V558 Lyr	25 Ori
HD 24479	FF Cam	V434 Aur
Iam Eri	nu Gem	V696 Mon
MZ Aur	zet Crv	AB Aur
HD 253214	GP Vir	V378 Pup
RY Gem	kap Dra	BN Gem
HD 253215	66 Oph	PZ Gem
HD 259631	HD 50658	HD 57682
27 CMa	15 Mon	HD 119682
V644 Mon	z Her	10 CMa
V767 Cen	eta Ori	z Pup
HI CMa	12 Aur	
NV Pup	kap CMa	

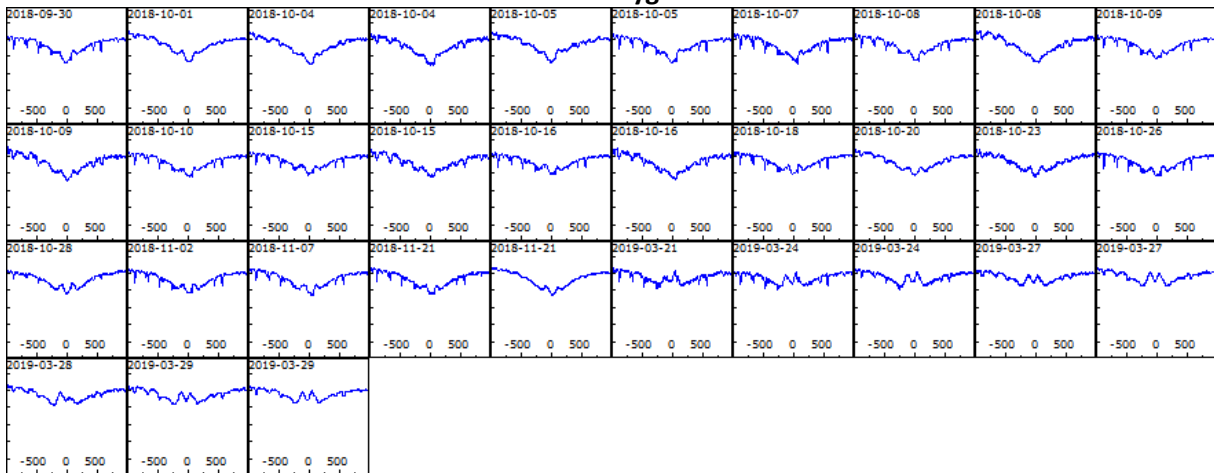
Objects observed

Classique							Herbig
Iam Cyg	5 Cnc	HD 168957	V696 Mon	HD 175511	z Pup	BZ Cru	AB Aur
phi And	FF Cam	HD 50658	2 Ori	HD 259631	OY Gem	V767 Cen	
28 Cyg	tet CrB	CQ UMa	12 Aur	HD 175863	EM* MWC 800	HD 119682	
QR Vul	bet CMi	15 Mon	MZ Aur	HD 42529	BD+56 573	10 CMa	
gam Cas	nu Gem	z Her	HD 42477	HD 112028	V503 Per	V749 Mon	
CX Dra	PHECDA	iot Lyr	V447 Aur	27 CMa	HI CMa	V414 Aur	
PLEIONE	zet Crv	HD 22780	HD 253214	kap CMa	BD+56 489	HD 253215	
ups Cyg	GP Vir	HD 201836	V378 Pup	HD 228438	BD+56 509	PY Gem	
phi Per	kap Dra	25 Ori	RY Gem	HD 43544	BD+59 497	11 Cam	
ALFIRK	HD 79066	HD 24479	HD 53416	HD 57682	BD-10 2133	eta Ori	

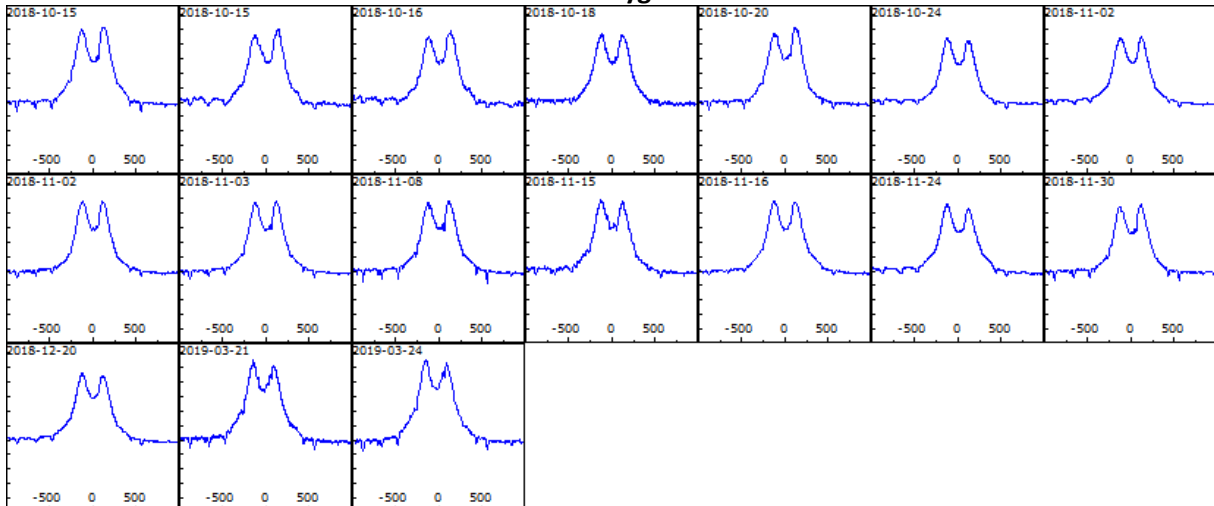
zet Tau	AG Aur	48 Per	BN Gem	V593 Tau	BD-11 2043	V420 Pup
V974 Her	HD 45995	lam Eri	PZ Gem	HD 51506	EC 10475-2118	V434 Aur
11 Cyg	V744 Mon	ALCYONE	V695 Mon	f Car	HD 57775	omi Her
V558 Lyr	66 Oph	HD 183339	HD 127617	V644 Mon	NV Pup	V532 Lyr
eps Cas	ELECTRA	69 Ori	OT Gem	53 Boo	4 Her	

Emission increase since last observations

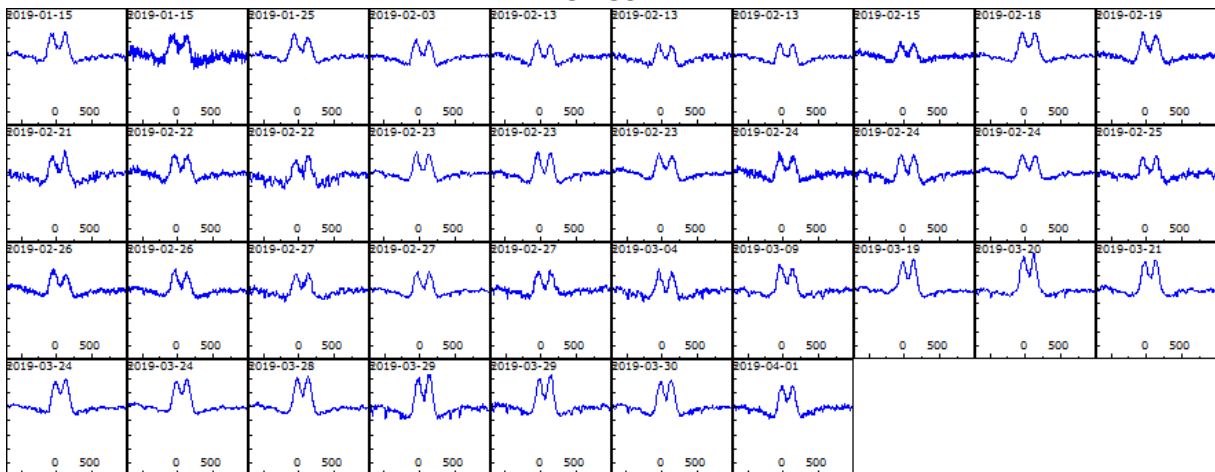
lam Cyg



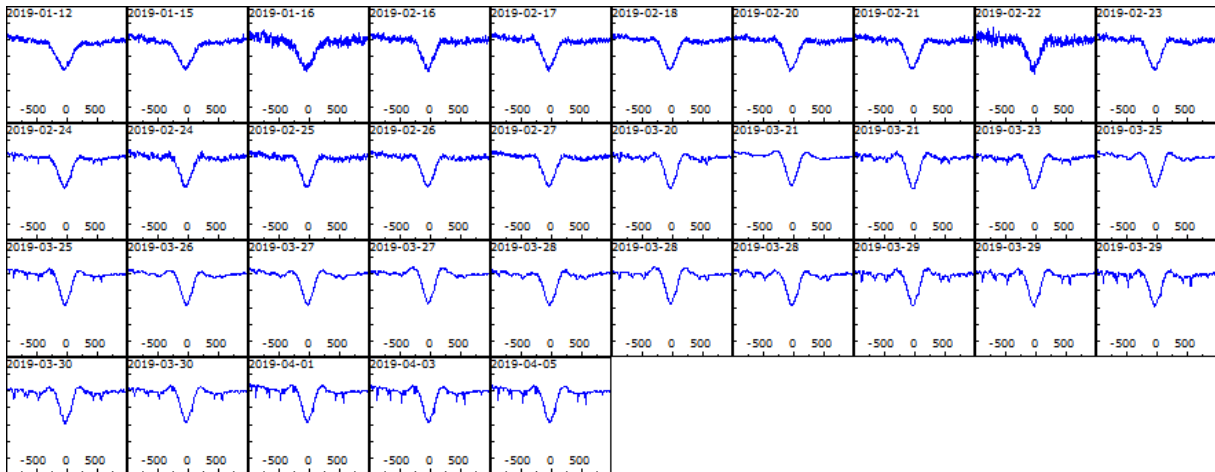
28 Cyg



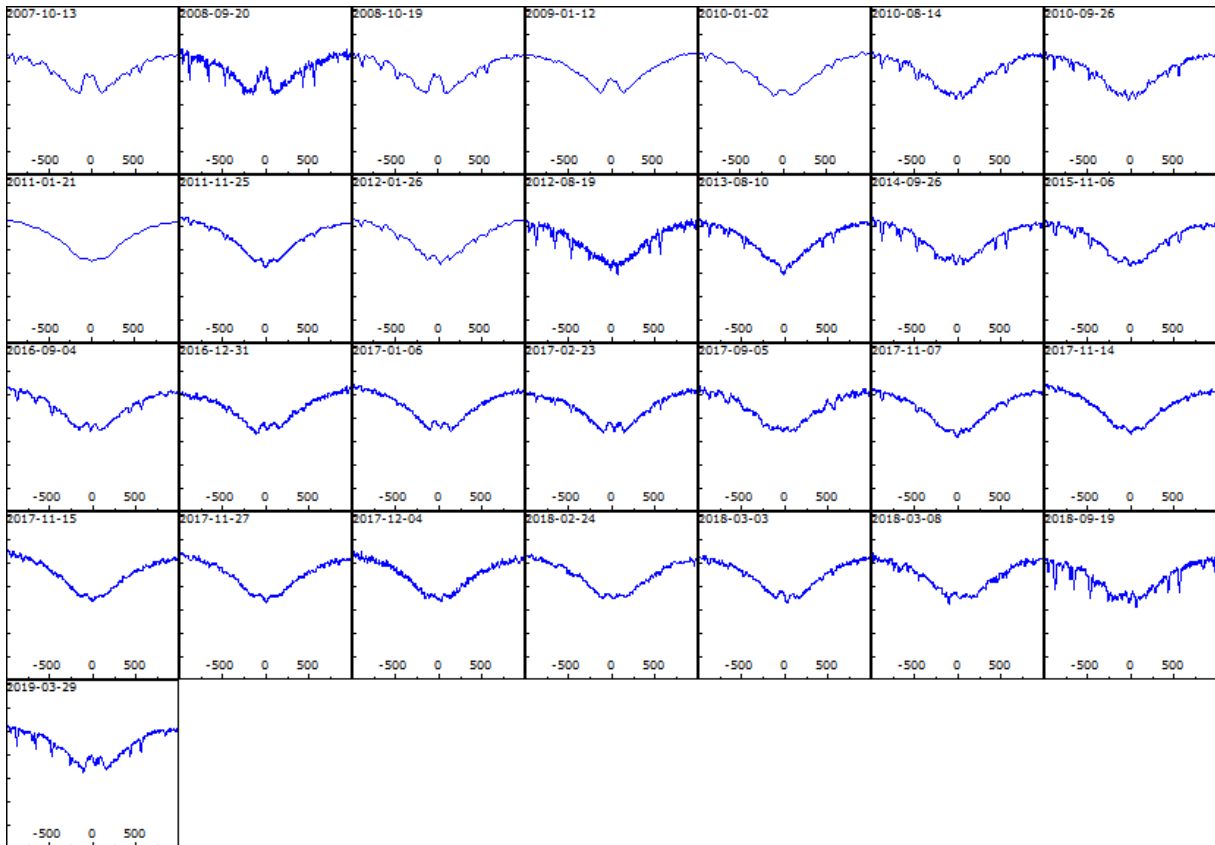
OT Gem



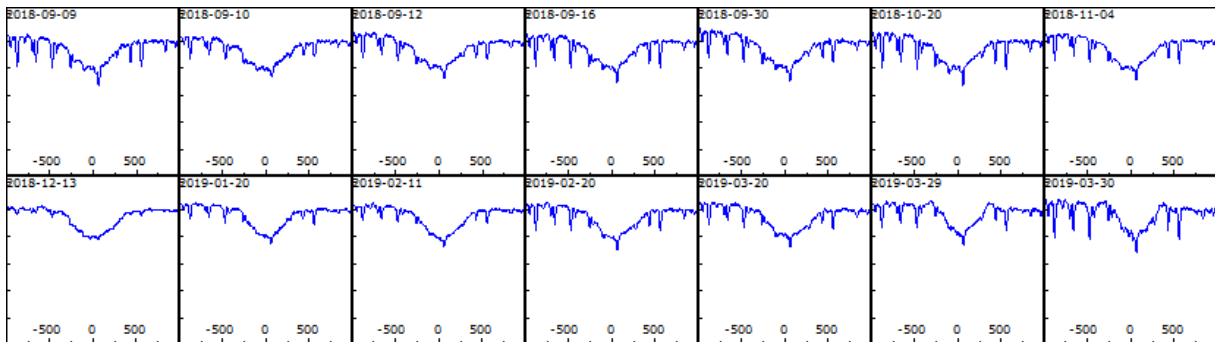
tet CrB



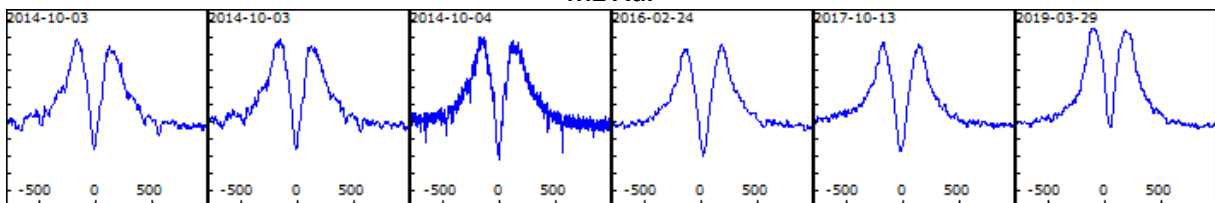
HD 24479



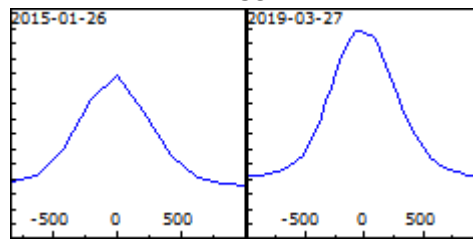
Iam Eri



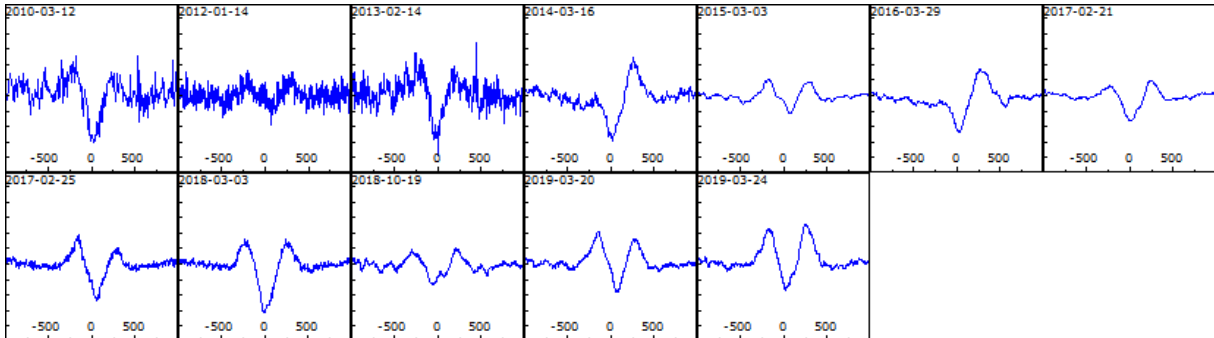
MZ Aur



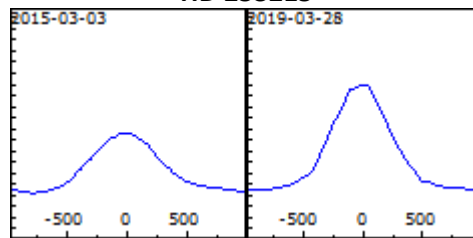
HD 253214



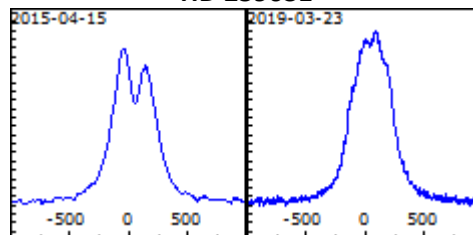
RY Gem



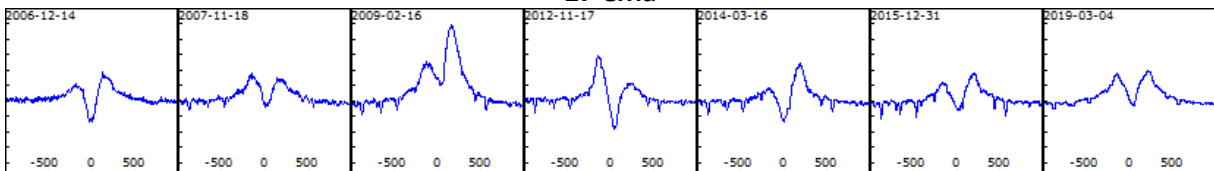
HD 253215



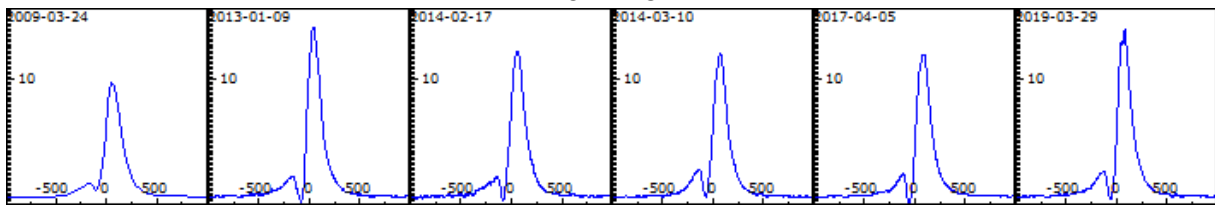
HD 259631



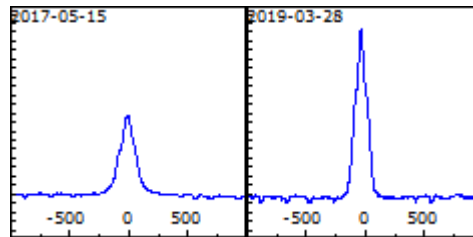
27 CMa



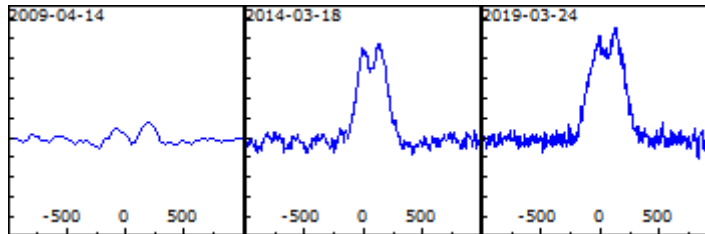
V644 Mon



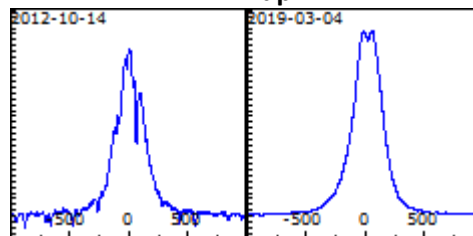
V767 Cen



HI CMa

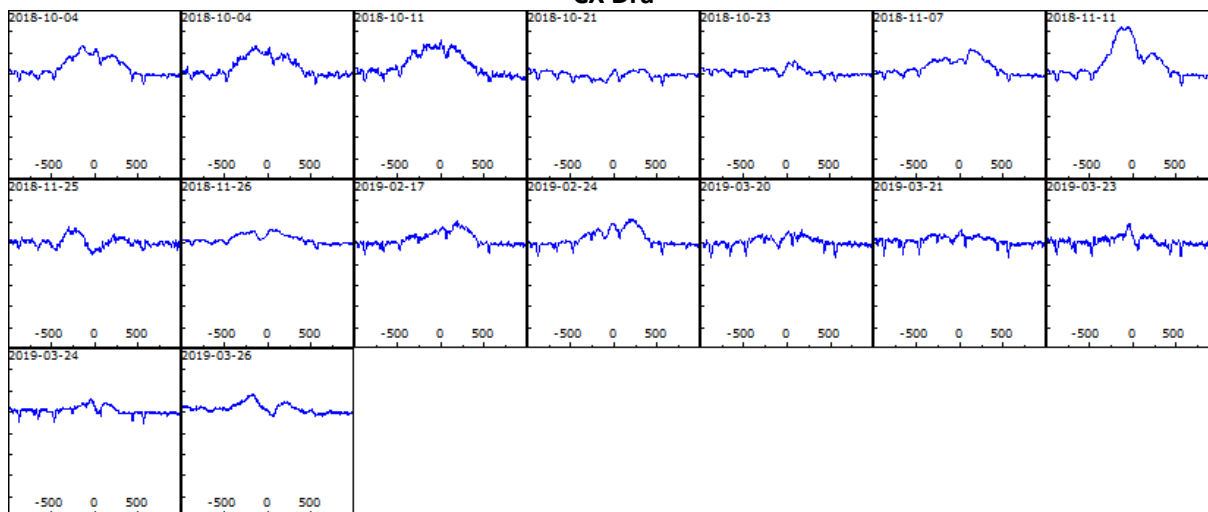


NV Pup

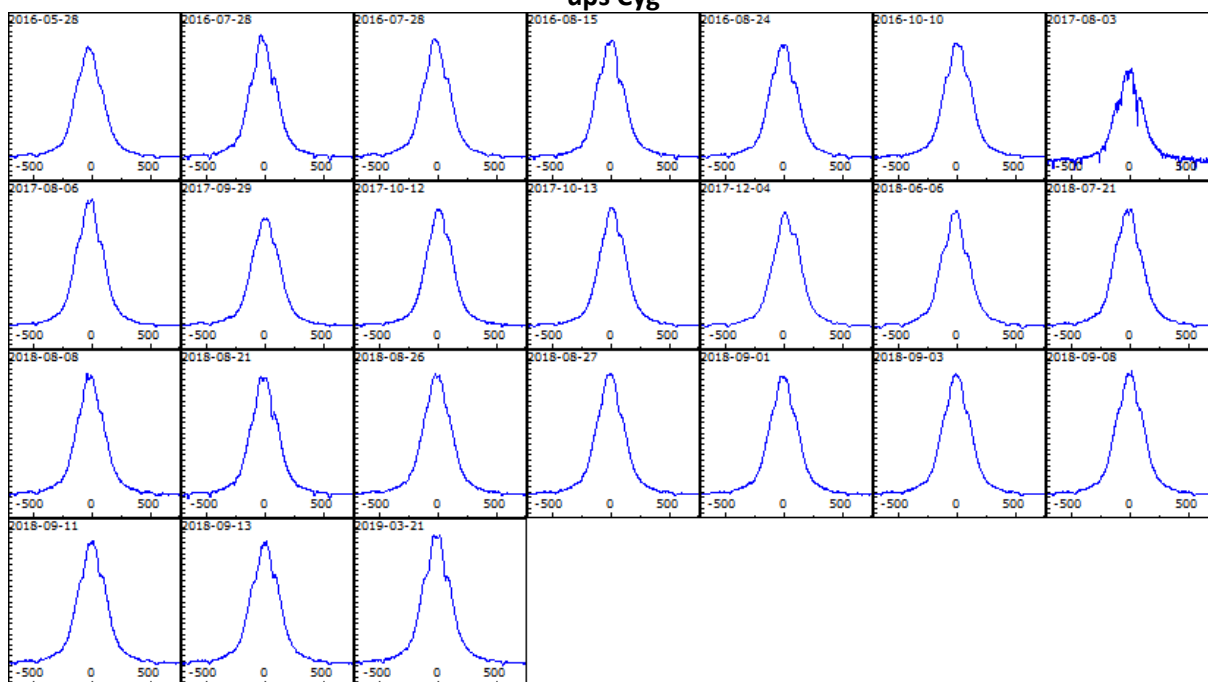


Moderate evolutions of H-alpha line

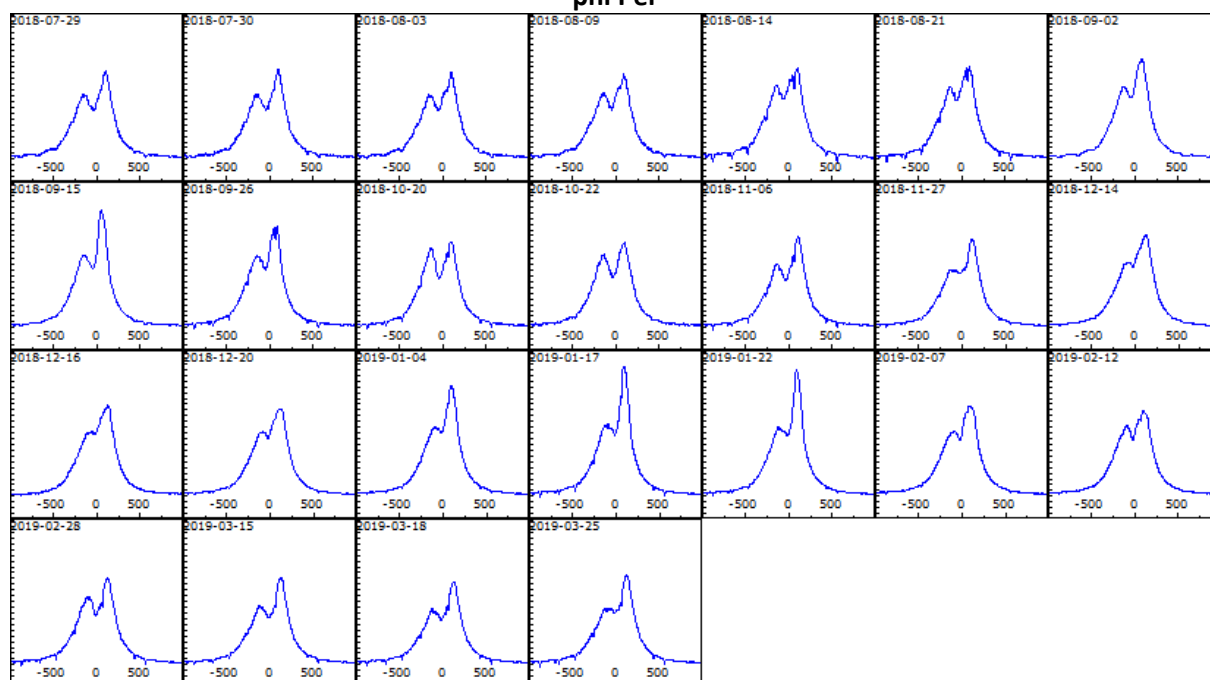
CX Dra



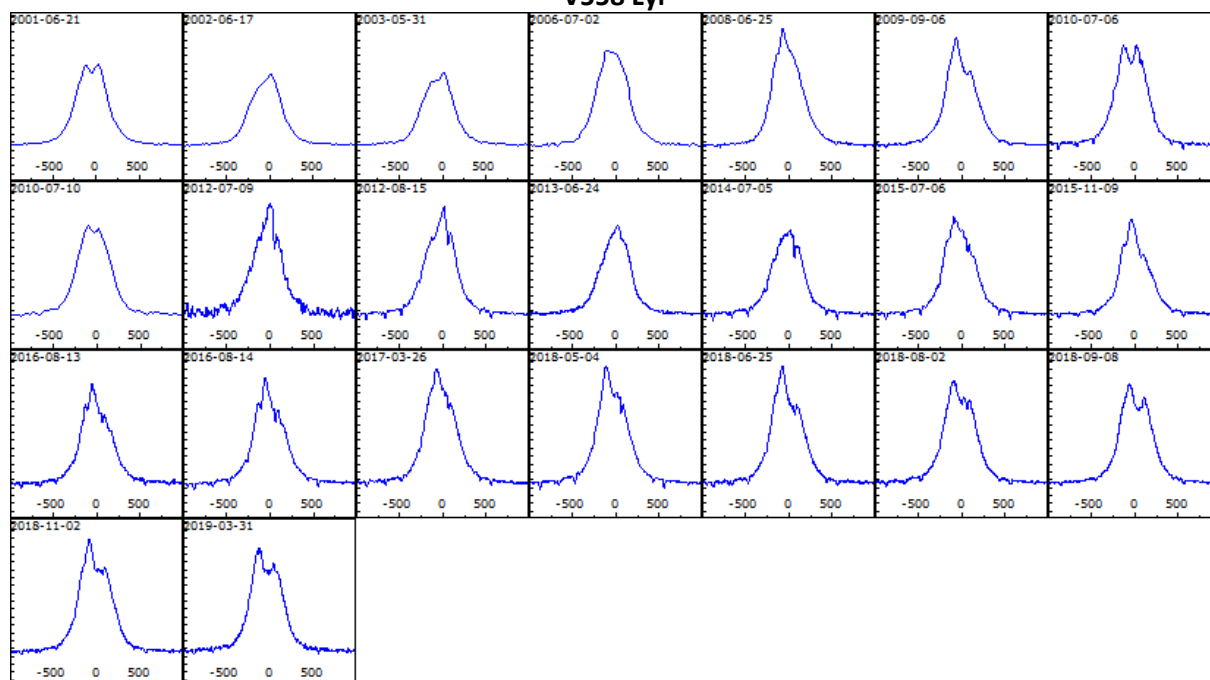
ups Cyg



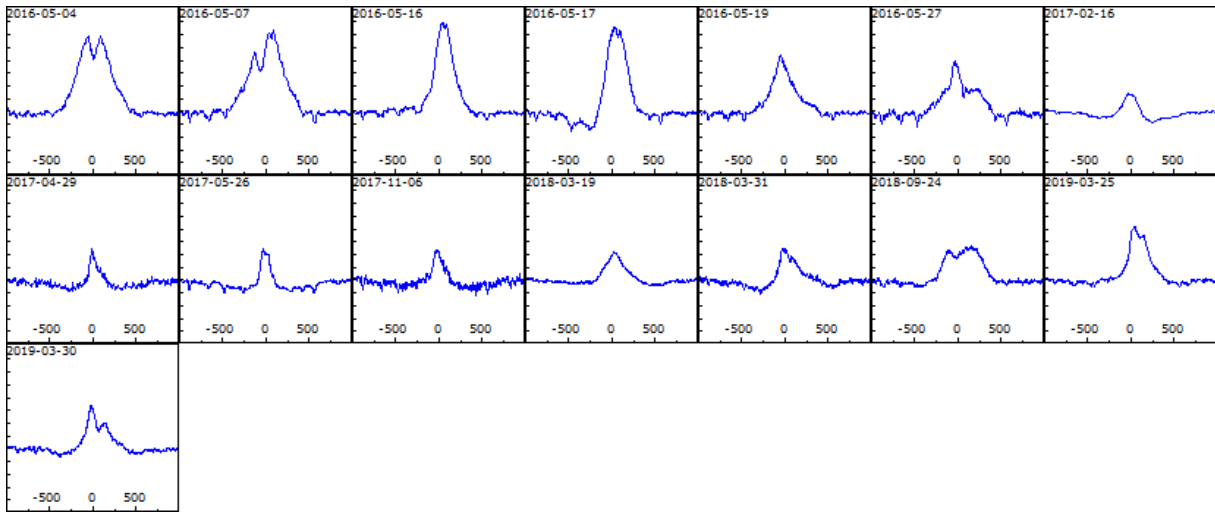
phi Per



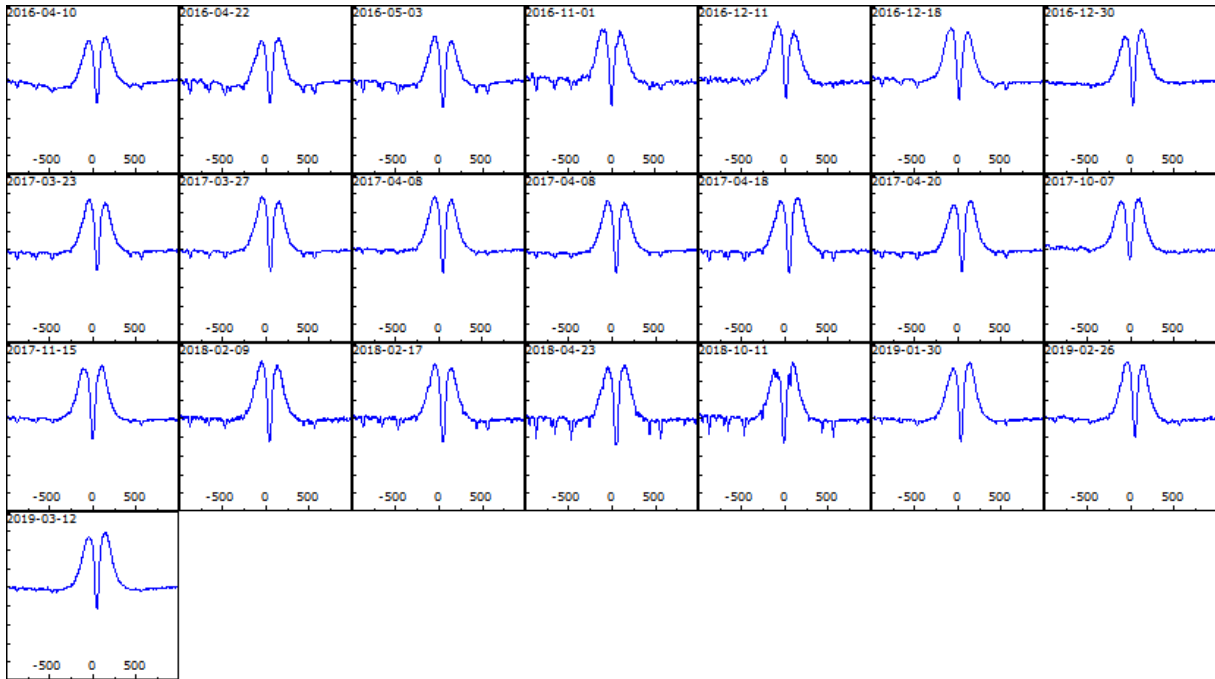
V558 Lyr



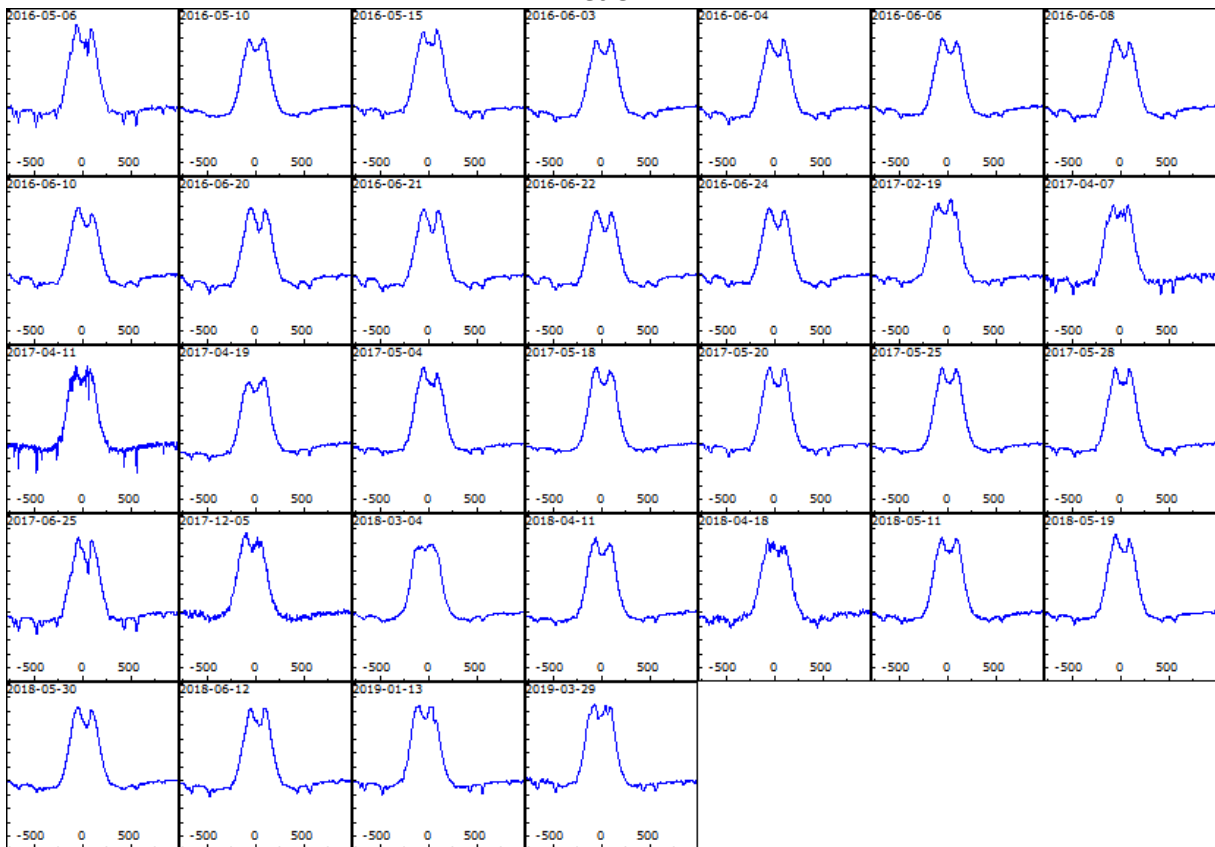
FF Cam



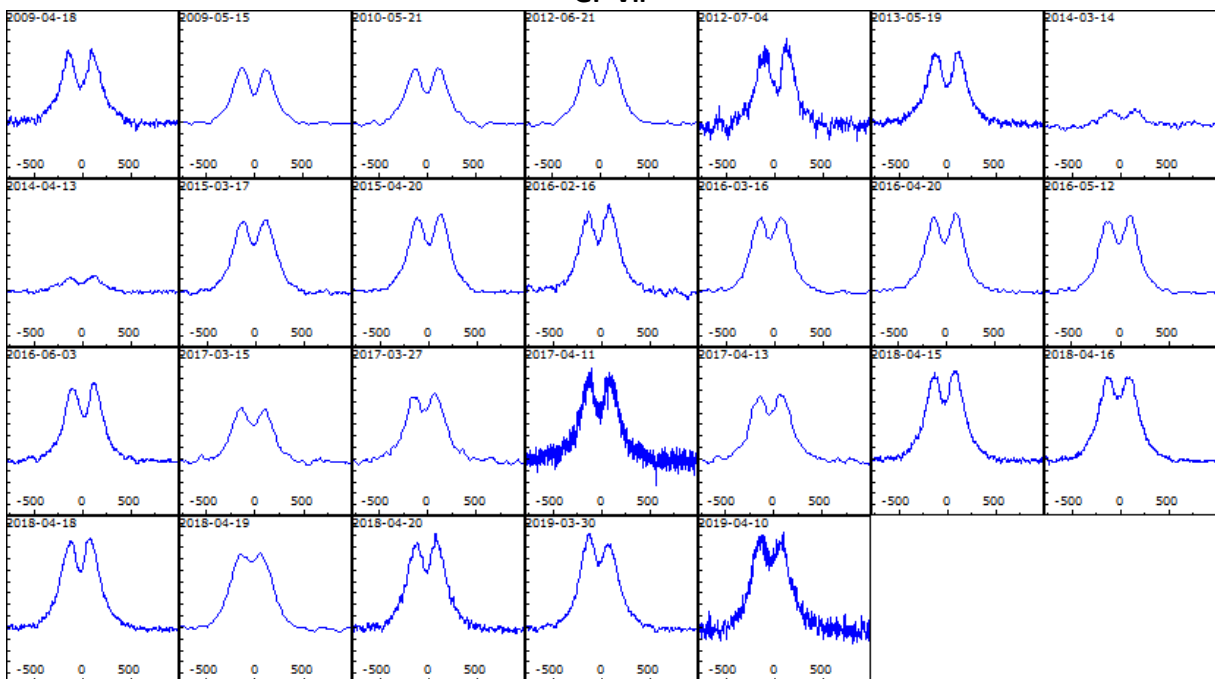
nu Gem



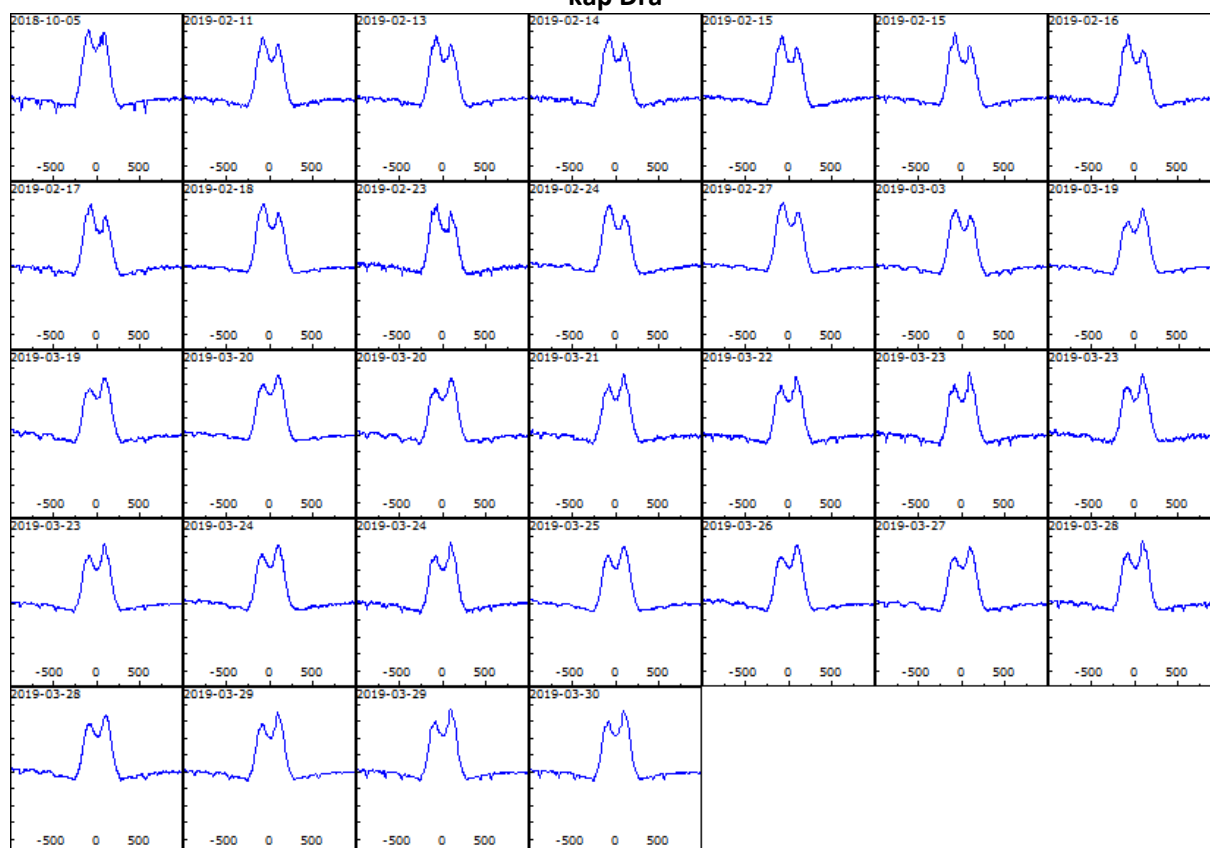
zet Crv



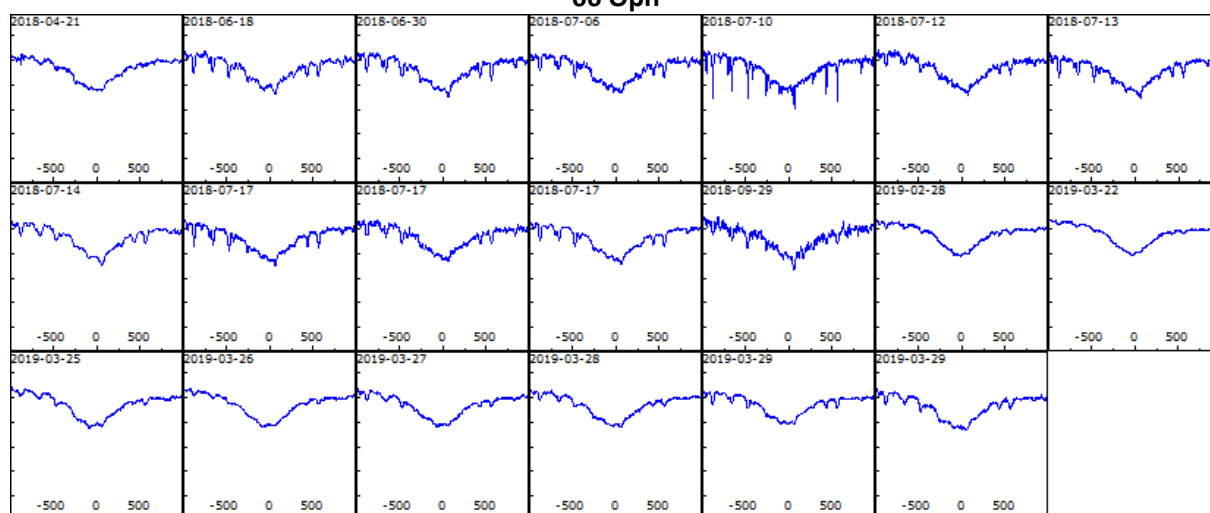
GP Vir



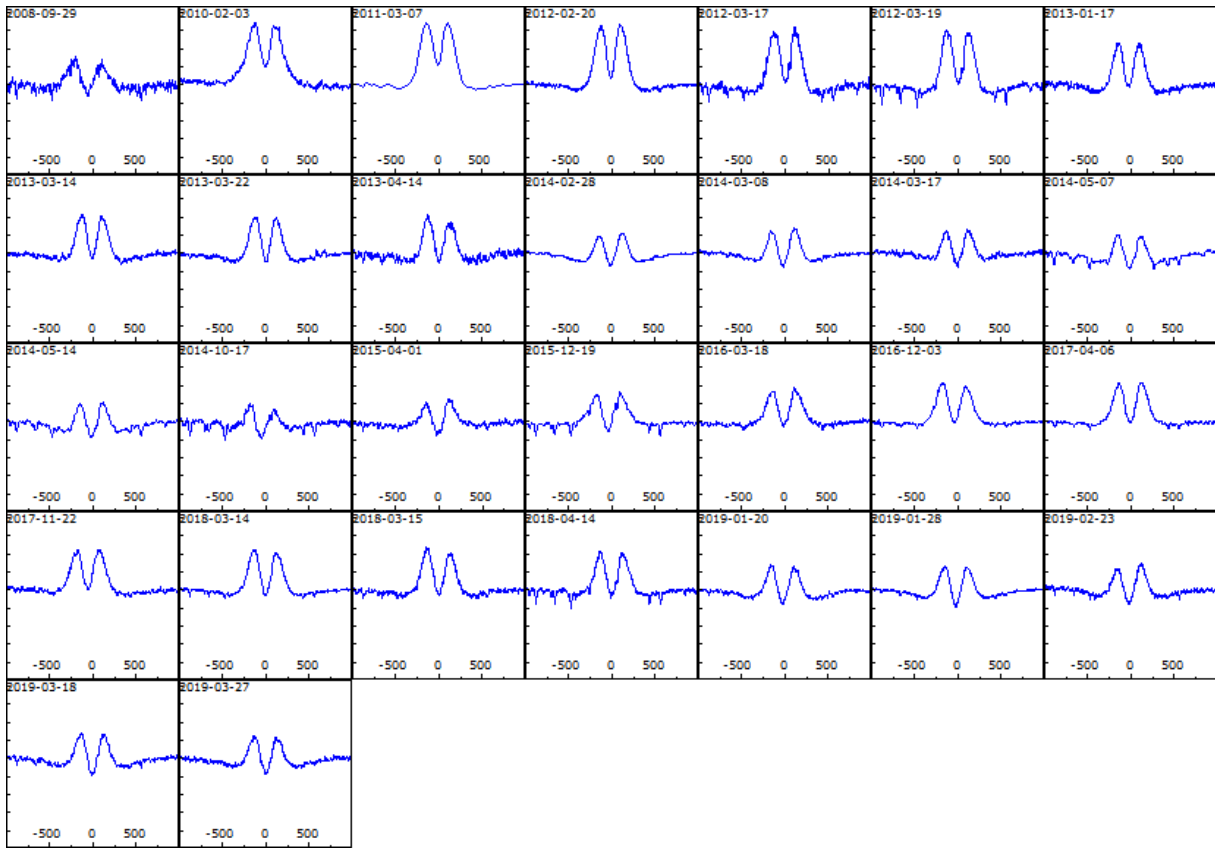
kap Dra



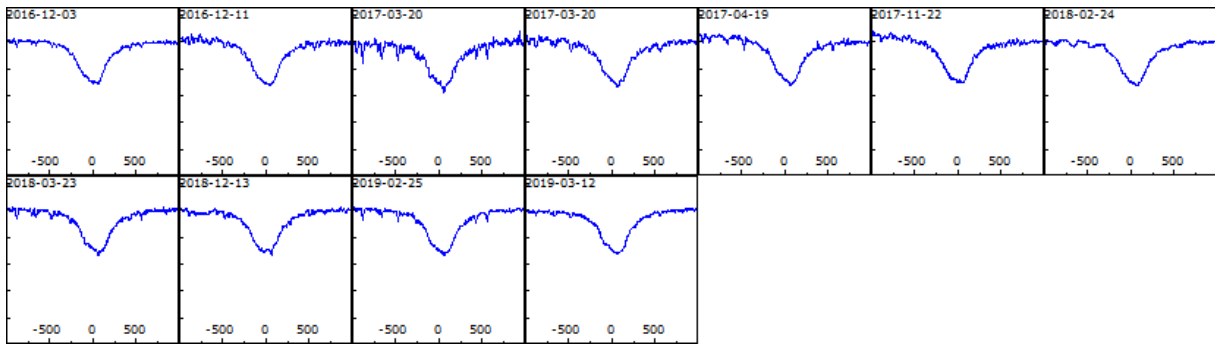
66 Oph



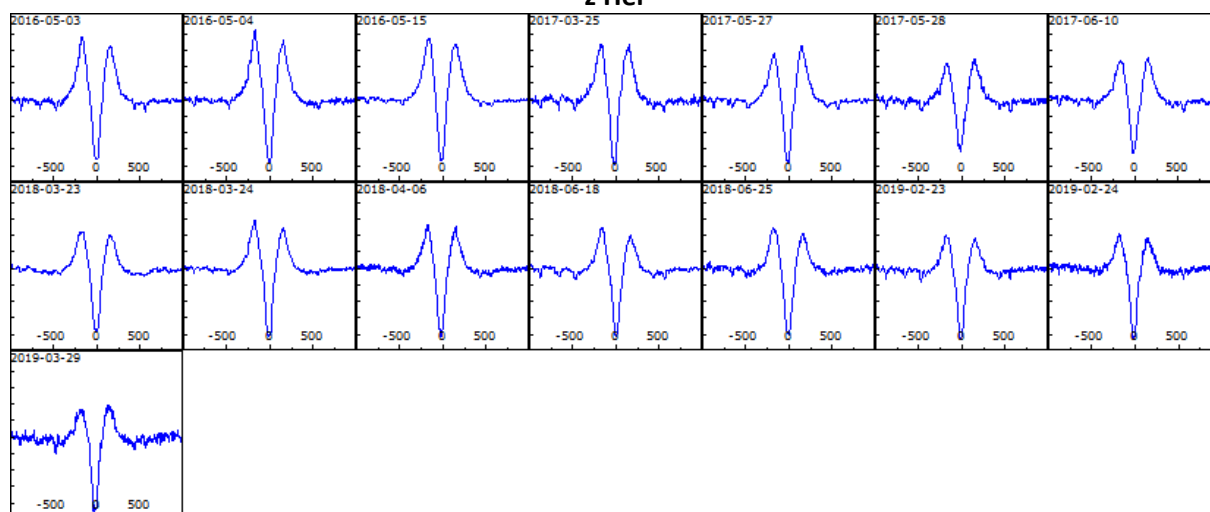
HD 50658



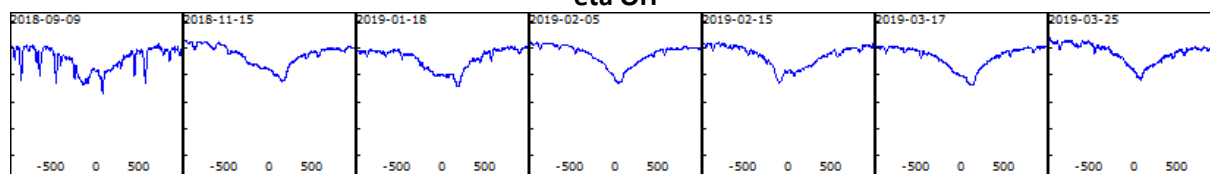
15 Mon



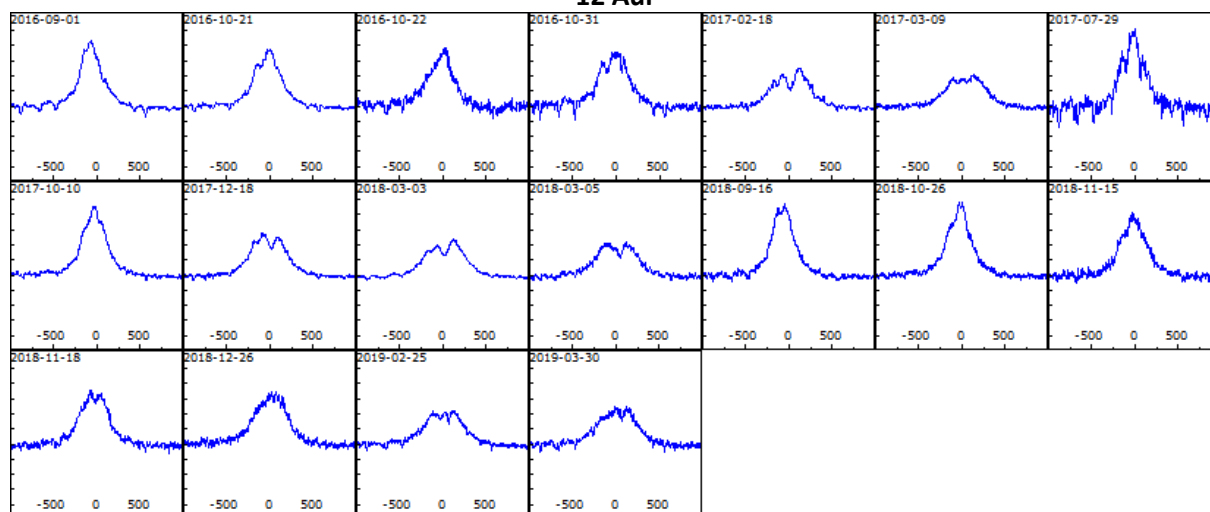
z Her



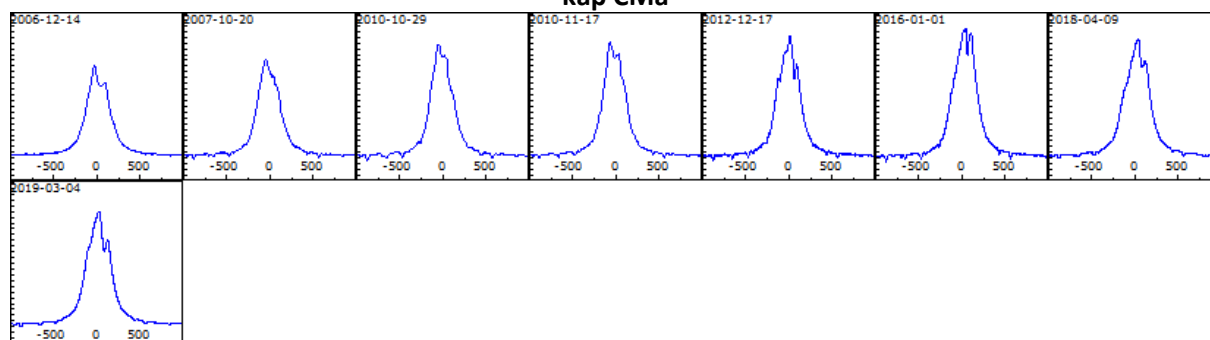
eta Ori



12 Aur

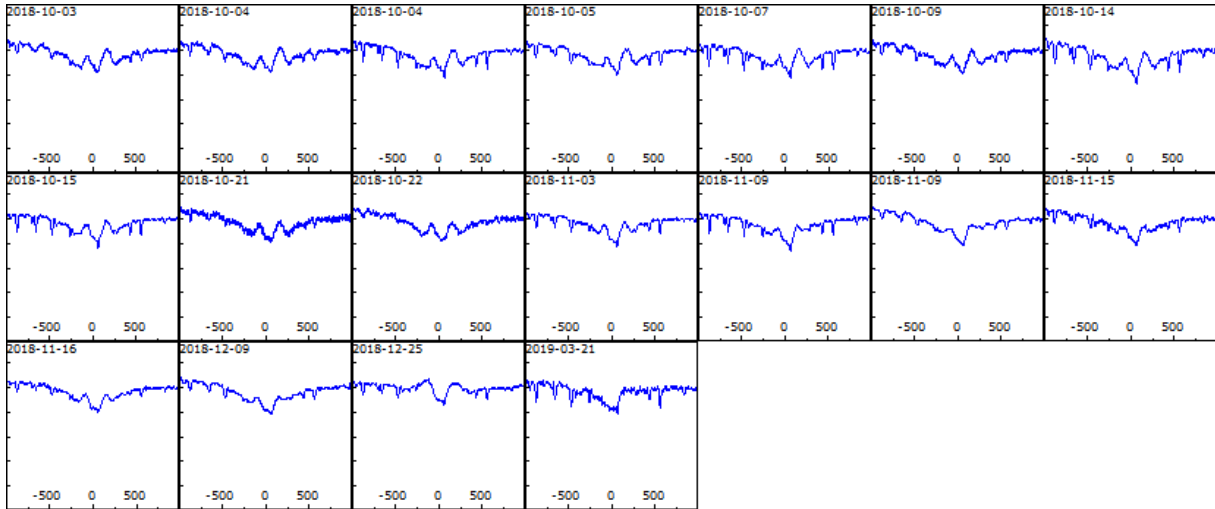


kap CMa

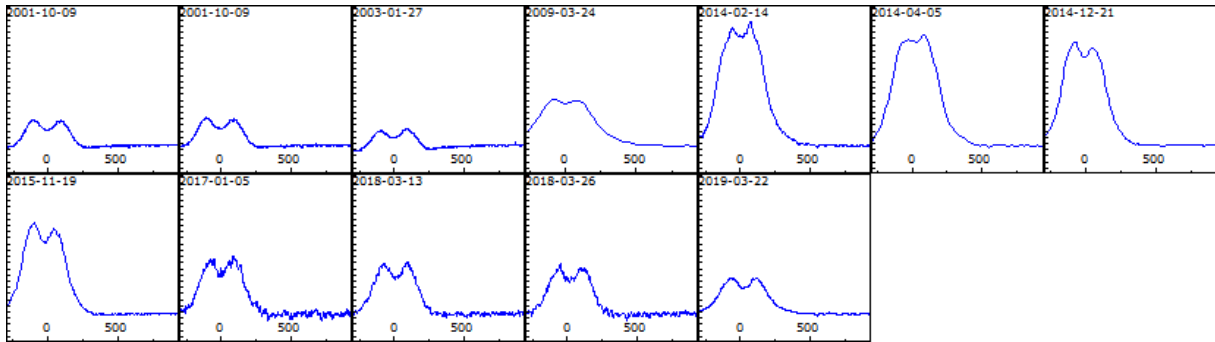


Emission decrease of H-alpha line

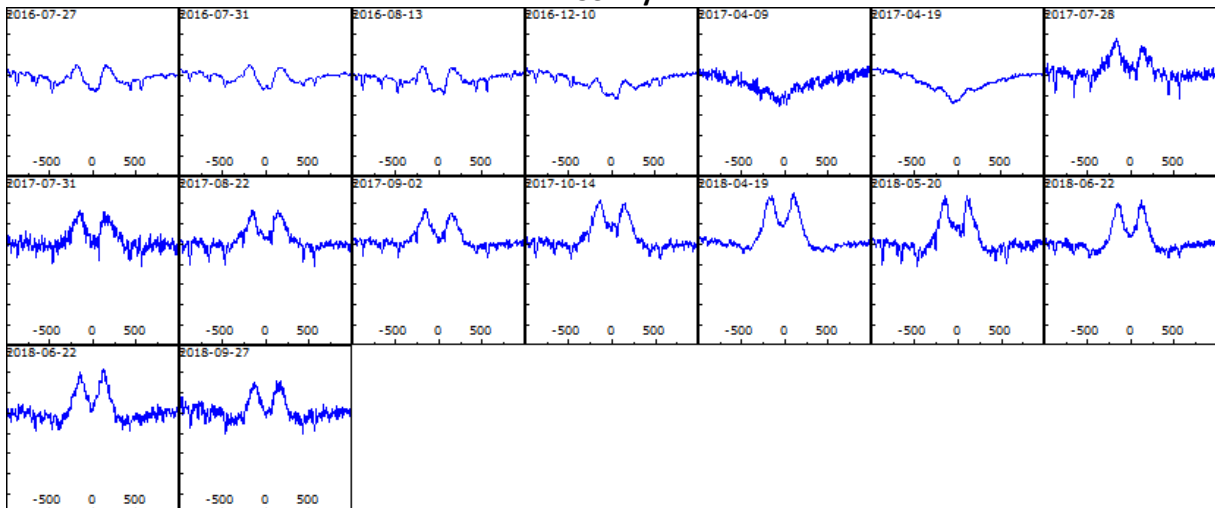
QR Vul



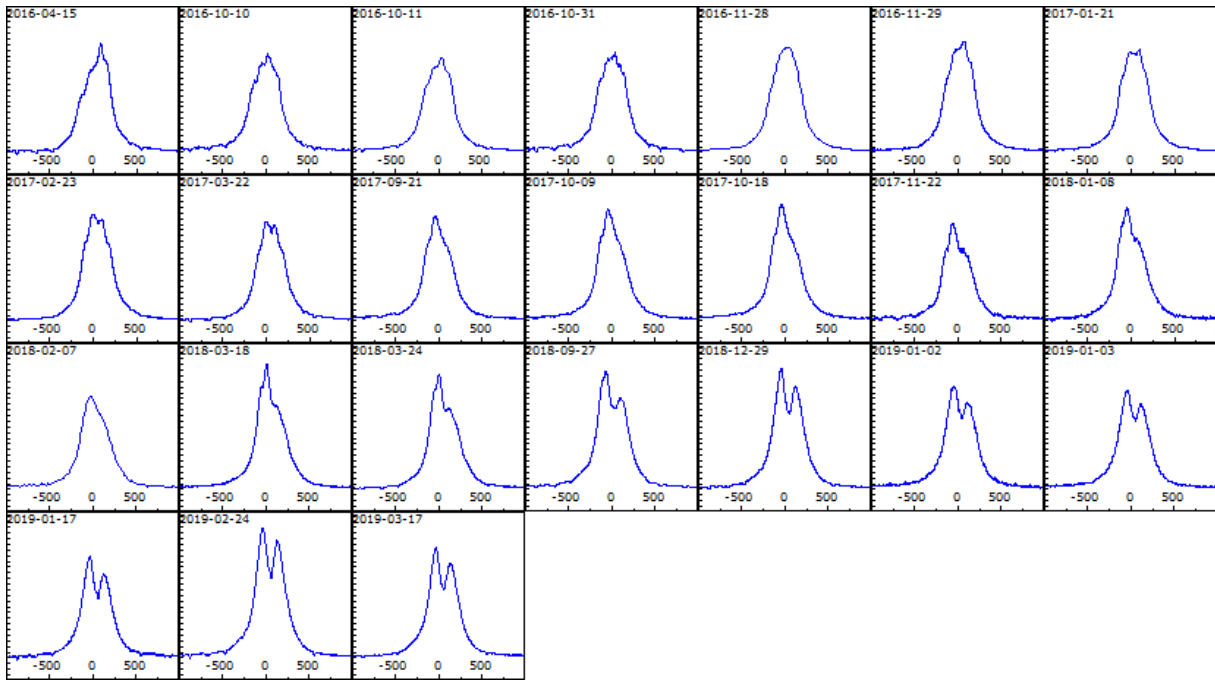
V744 Mon



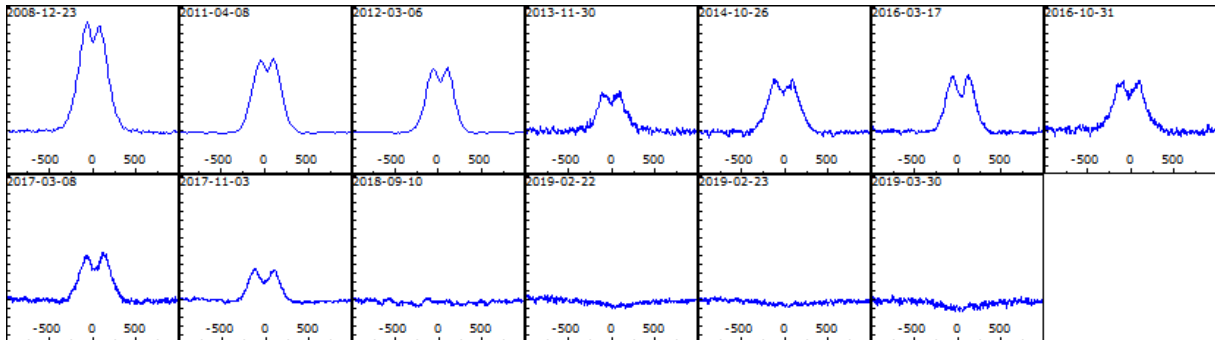
V532 Lyr



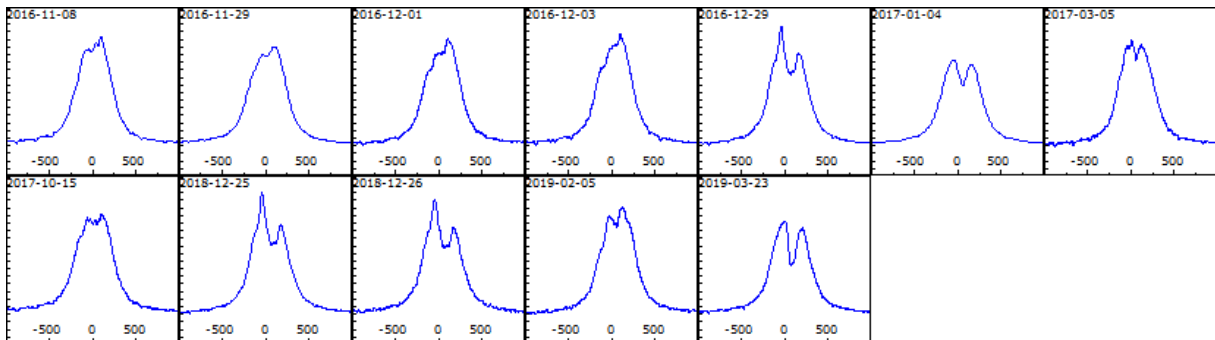
25 Ori



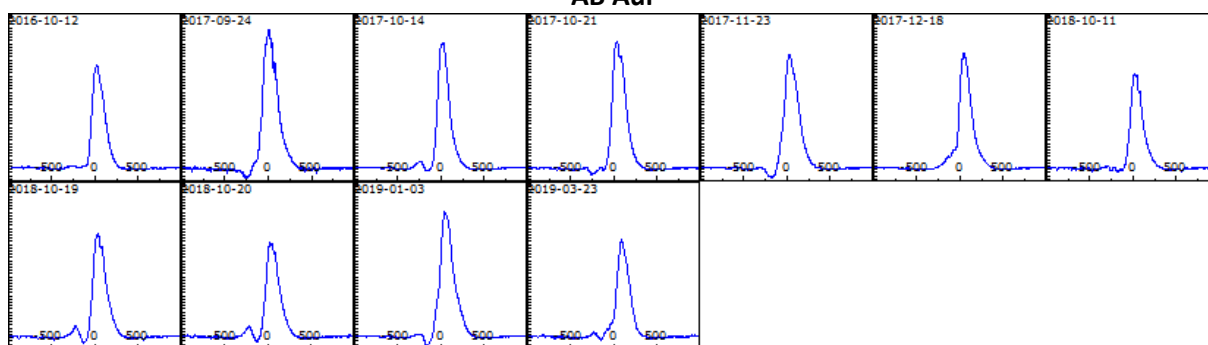
V434 Aur



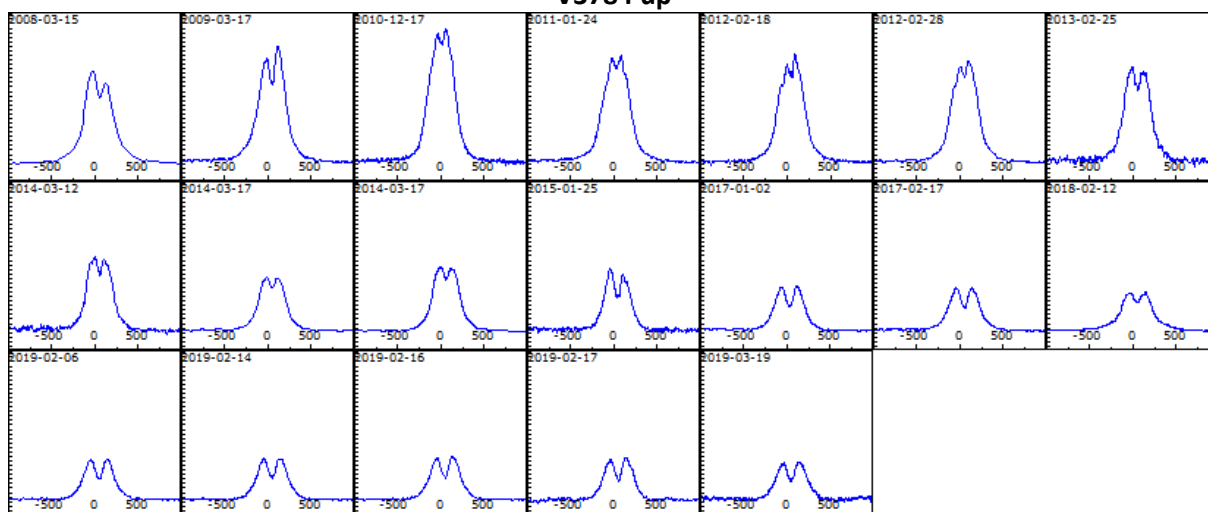
V696 Mon



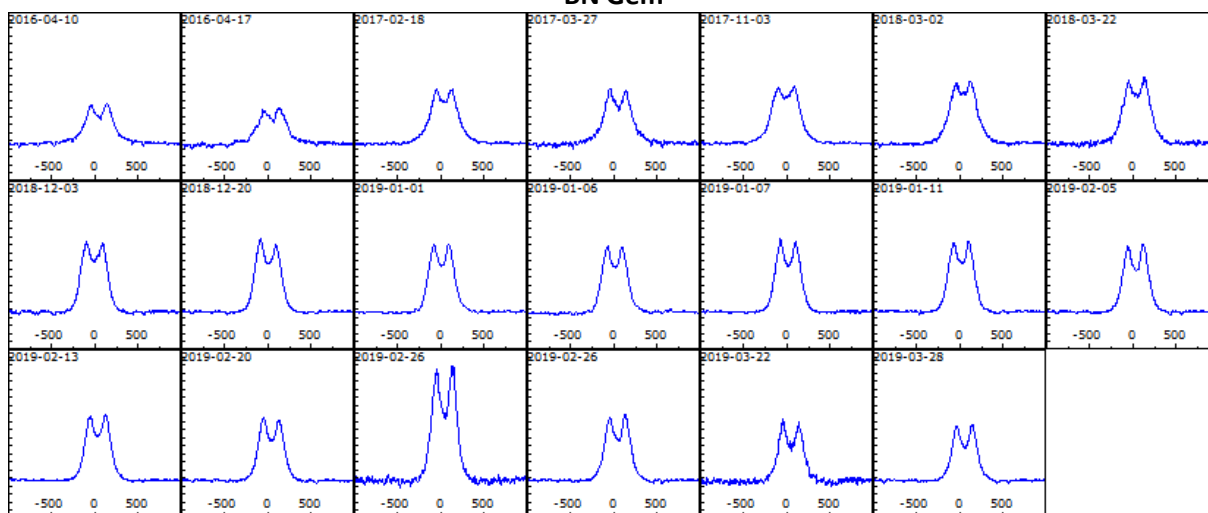
AB Aur



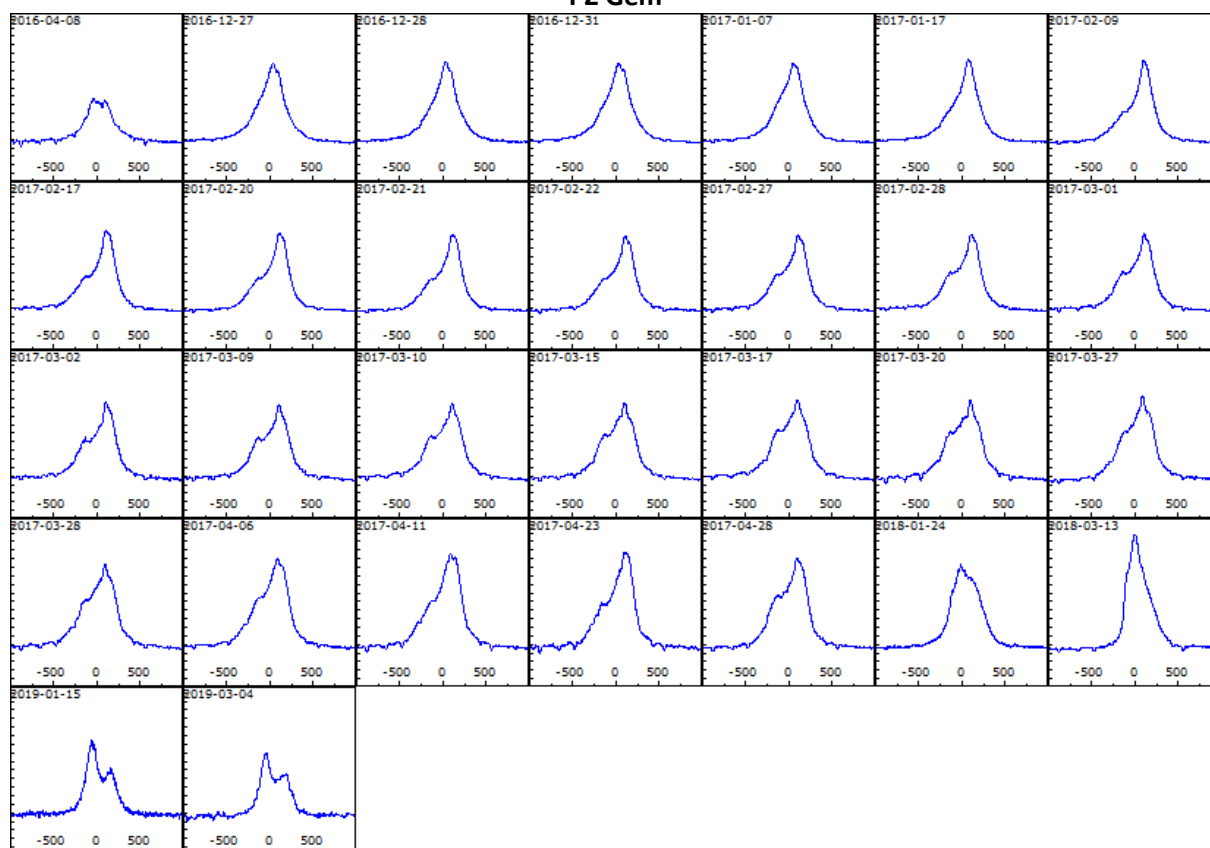
V378 Pup



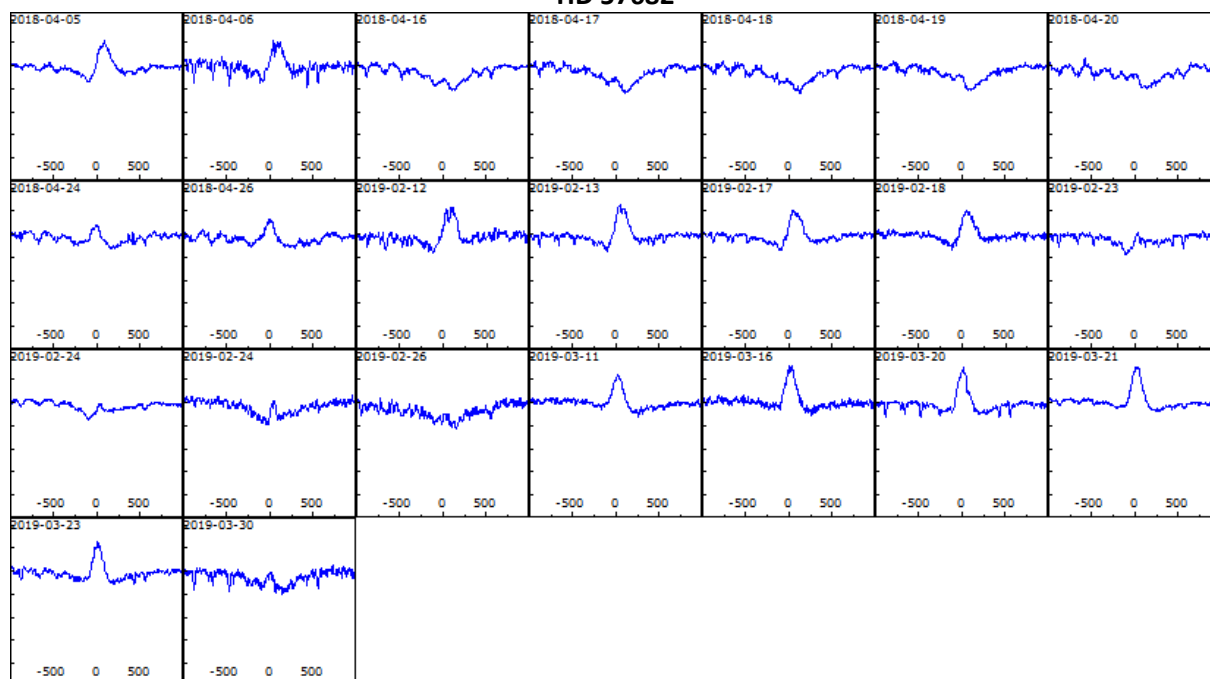
BN Gem

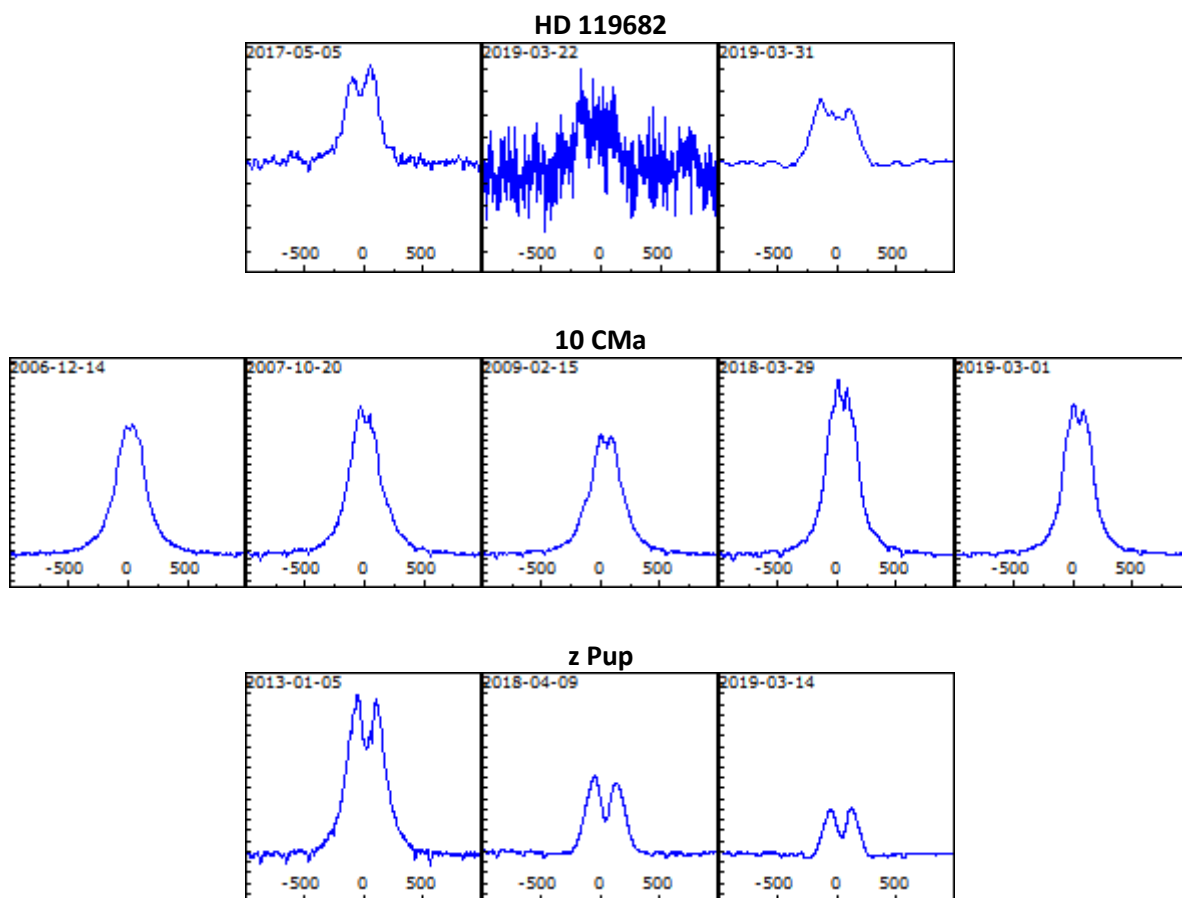


PZ Gem



HD 57682





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/>