

BeSS report – Jan 2019

Data compiled by Valérie Desnoux – H-alpha monitoring

- 76 stars were observed
- 15 Observers contributed this month
- 170 Spectra

Observers...

Observateur	Nb spec
Thizy	47
Guarro Fló	20
GARDE	17
James	16
Leonardi	15
Stiewing	13
Bryssinck	13
HOUPERT	10
Daglen	7
Favaro	4
Sollecchia	2
de Bruin	2
Sims	2
Bohlsen	1
DUBREUIL	1
Total général	170

Events of the month...

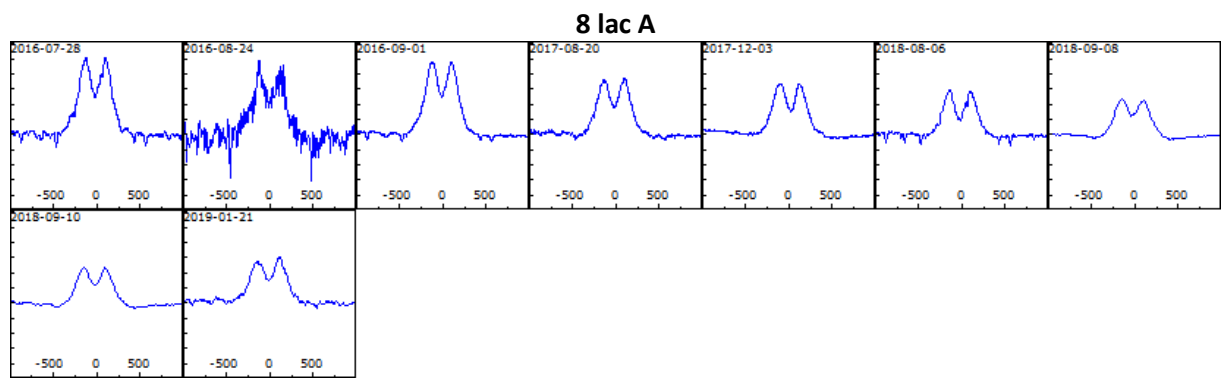
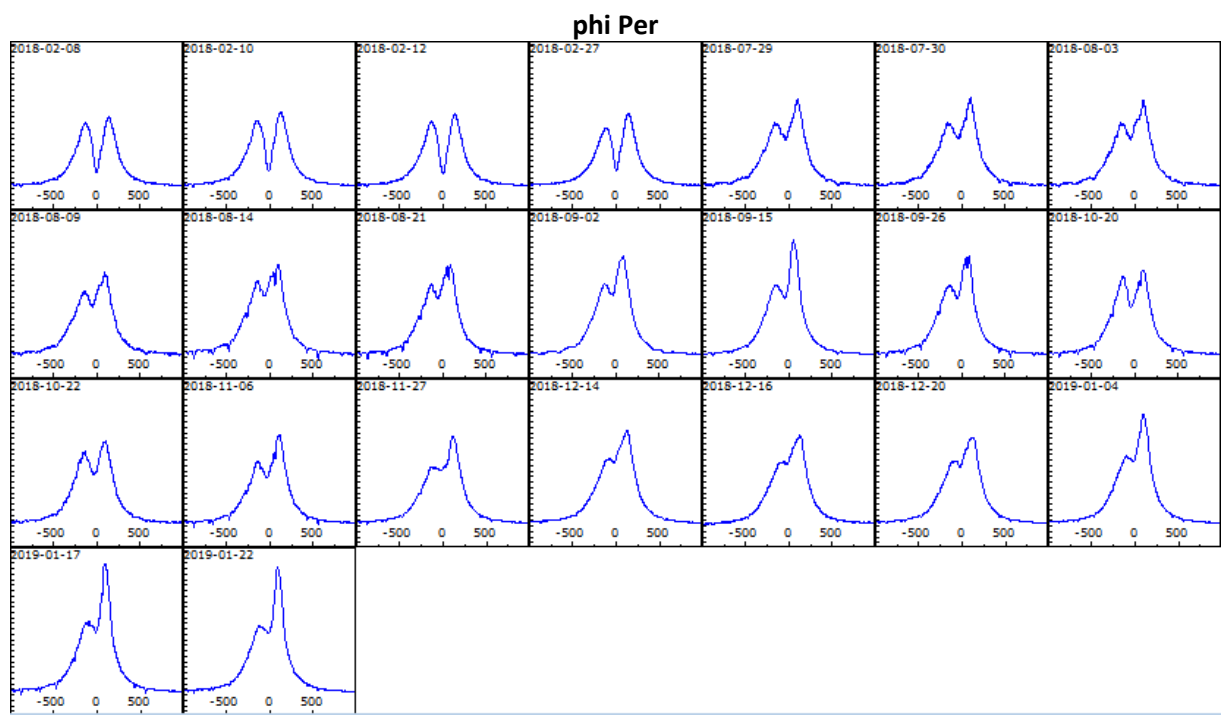
EE: Emission Event, ME: Moderate Events, DE: Decreasing Event

EE	ME	DE
phi Per	phi And	V442 And
8 lac A	omi And	HD 45995
CW Cep	tet CrB	HD 50658
25 Ori	zet Crv	V438 Aur
105 Tau	I Hya	PZ Gem
HD 20340	HD 76868	CR Cam
AB Aur	HD 31648	V584 Per
HD 72043	HD 37115	V1410 Ori
I Pup	HD 89884	HD 38191
	V1307 Ori	
	HD 37971	

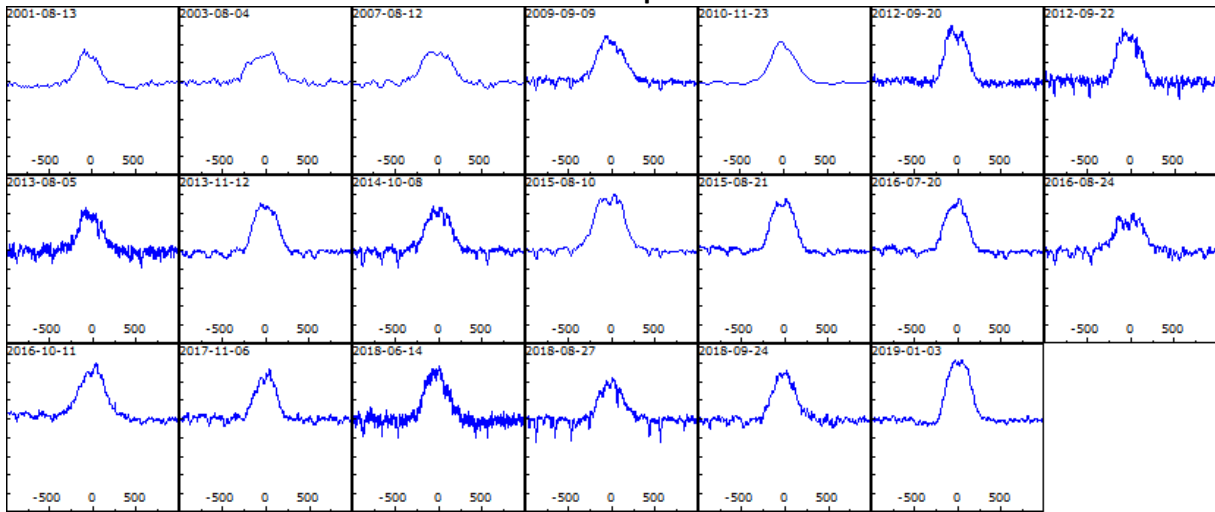
Objects observed

Classique	B[e]						Herbig
V442 And	8 Lac A	phi Leo	eta Ori	HD 32188	HD 89884	I Pup	HD 31648
omi And	CW Cep	HD 44783	V1369 Ori	HD 30677	CR Cam		AB Aur
phi And	69 Ori	HD 76868	V1150 Tau	HD 26398	FS CMa		V1307 Ori
QR Vul	OT Gem	HD 45995	HD 50820	HD 37115	V584 Per		V1410 Ori
gam Cas	5 Cnc	HD 50658	HD 20340	V438 Aur	HD 37971		
pi Aqr	tet CrB	HD 91120	2 Ori	BN Gem	HD 50581		
PLEIONE	bet CMi	HD 22780	HD 37352	PZ Gem	HD 38191		
phi Per	nu Gem	HD 18552	Menkhib	HD 38856	HD 29866		
psi Per	zet Crv	tet Ari	43 Ori	HD 37330	HD 21362		
zet Tau	19 Mon	25 Ori	HD 19993	HD 72043	BD+62 285		
BK Cam	HD 79066	105 Tau	11 Cam	MEROPE	13 Tau		
HD 9709	I Hya	bet Psc	lam Eri				

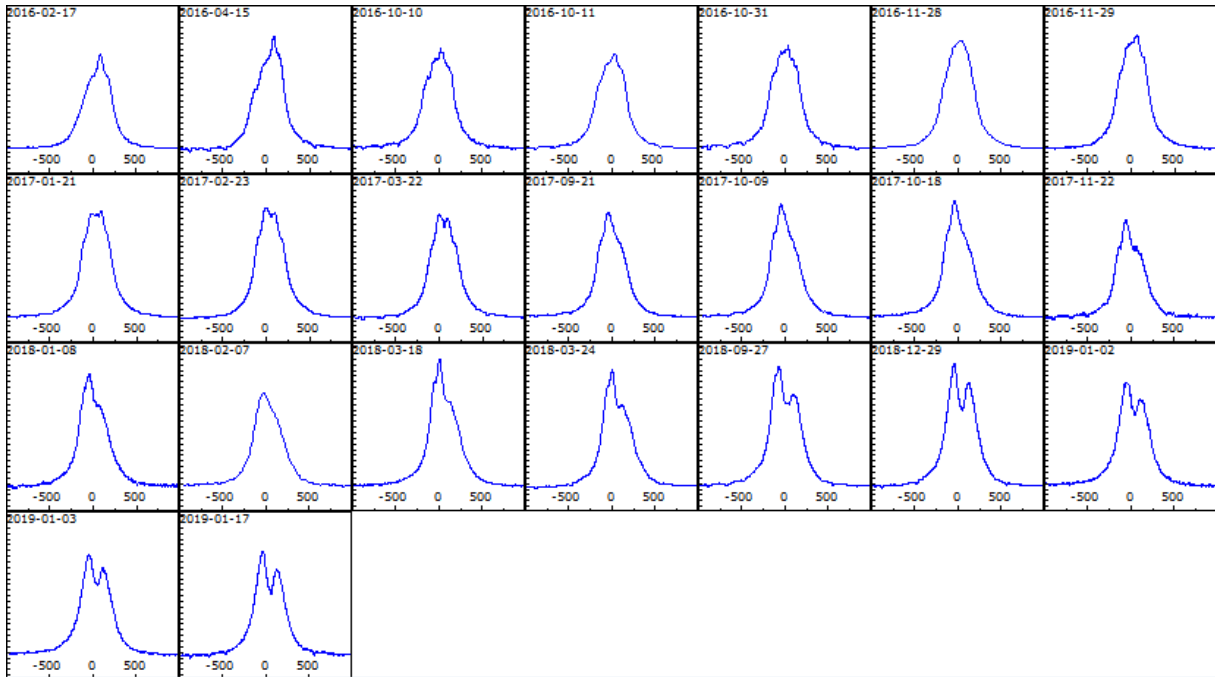
Emission increase since last observations



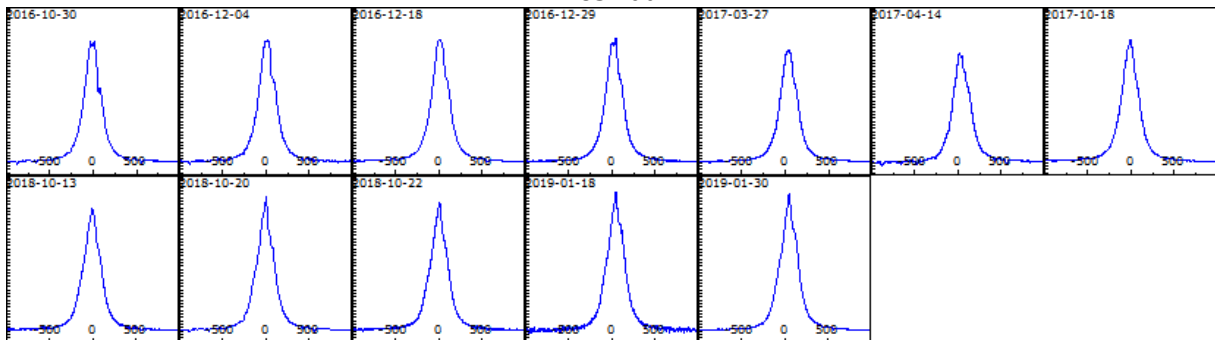
CW Cep



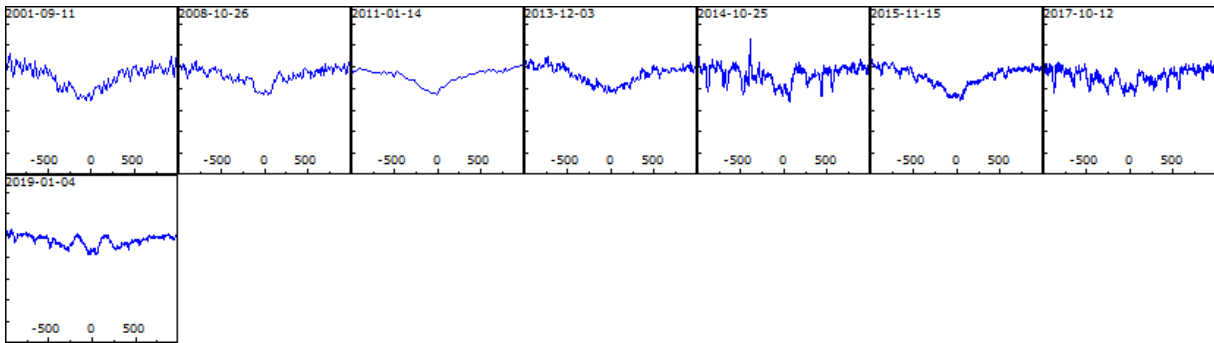
25 Ori



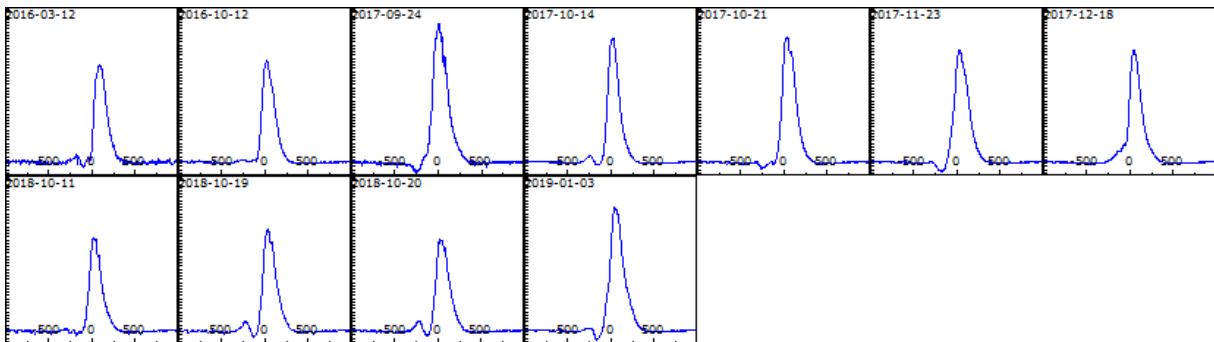
105 Tau



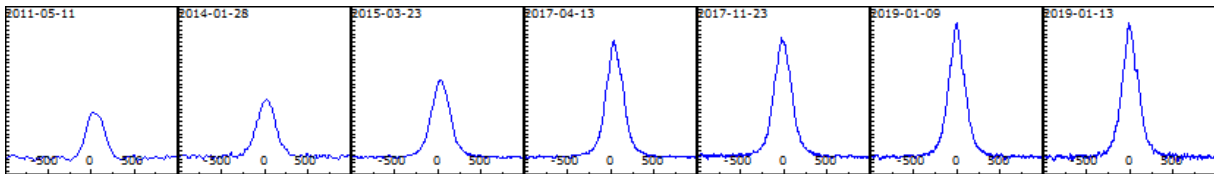
HD 20340



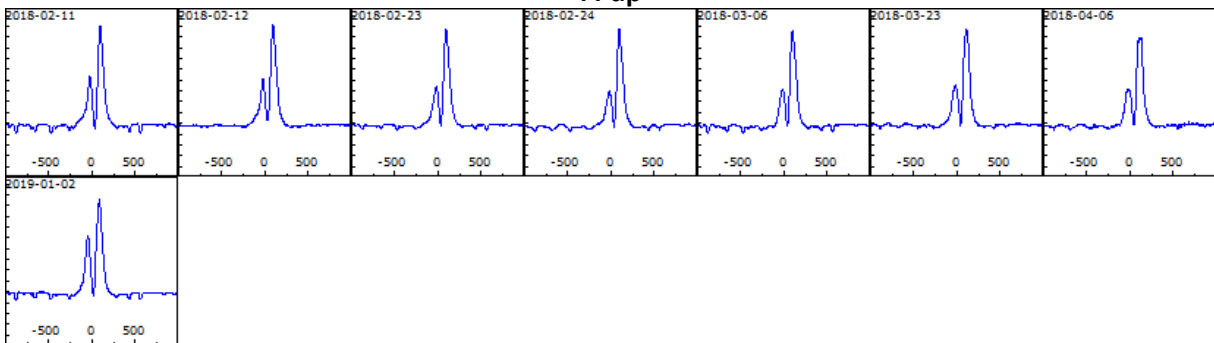
AB Aur



HD 72043

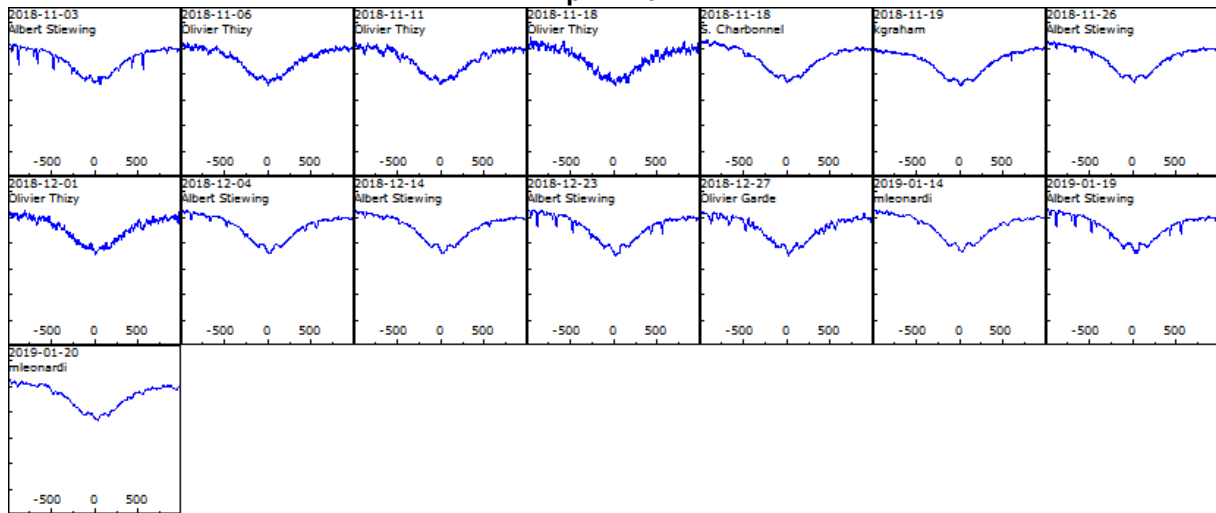


I Pup

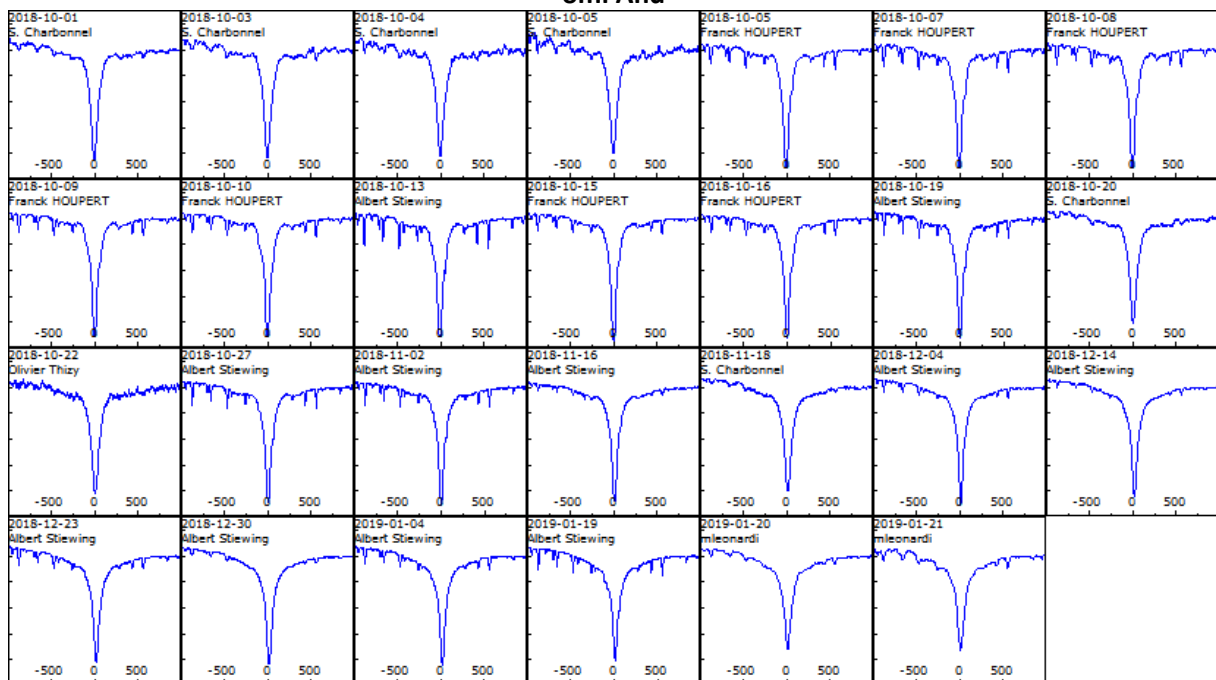


Moderate evolutions of H-alpha line

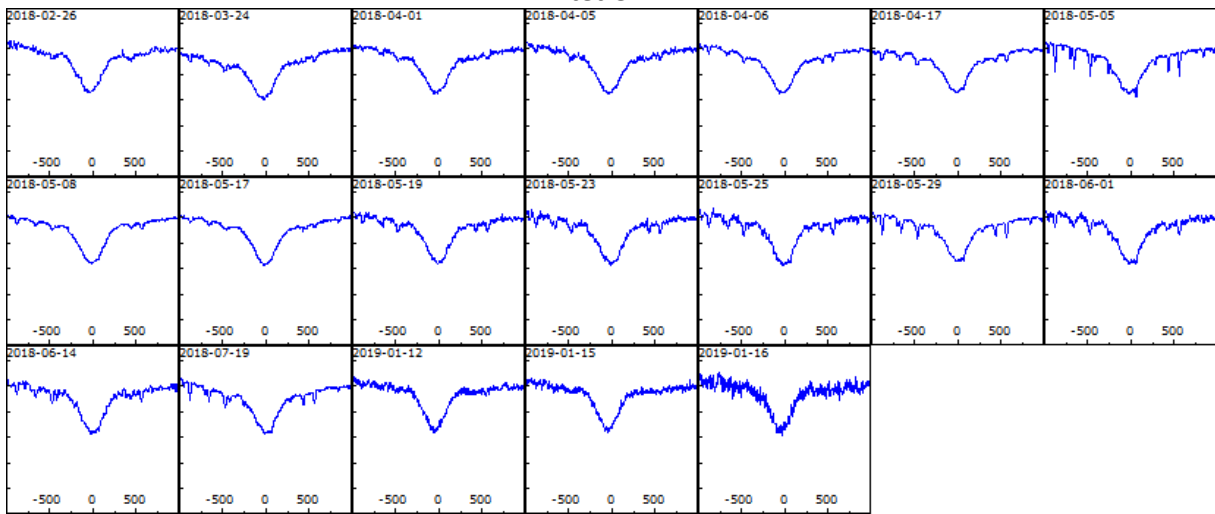
phi And



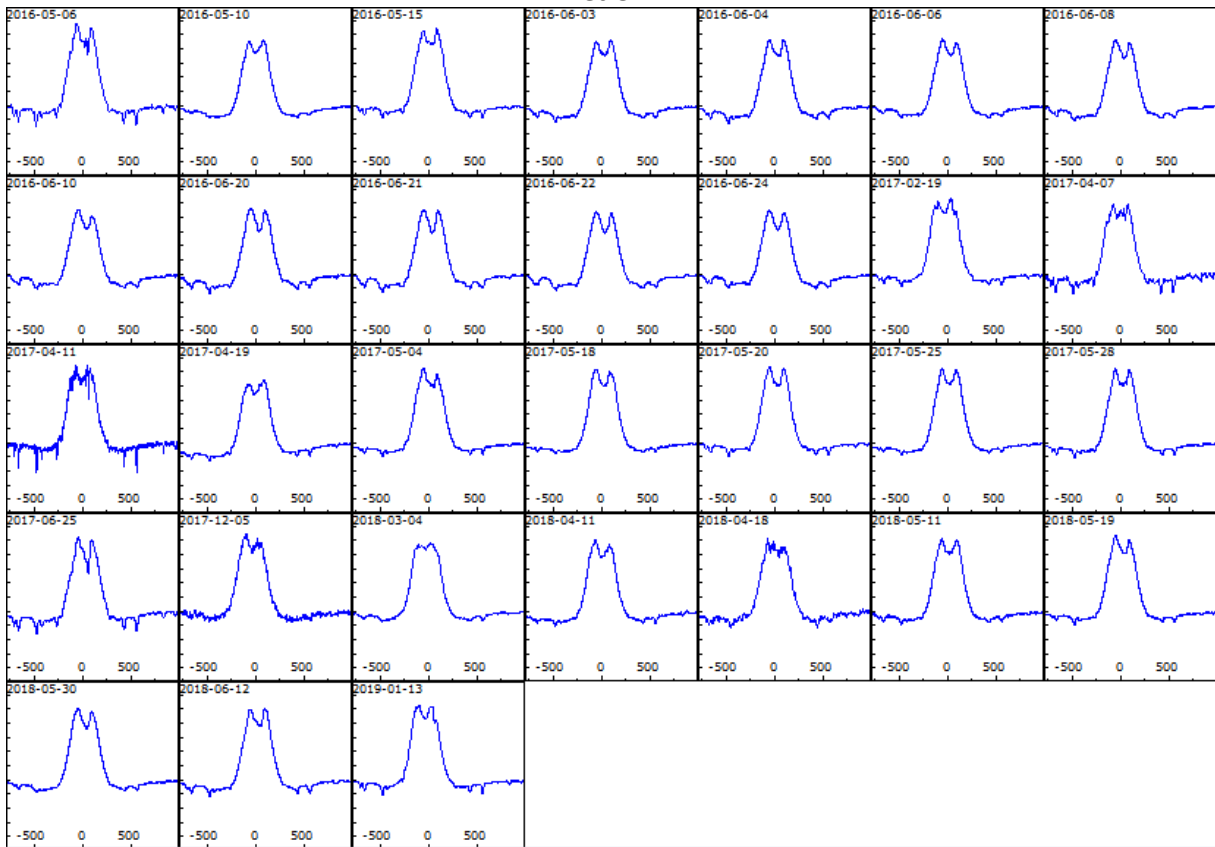
omi And



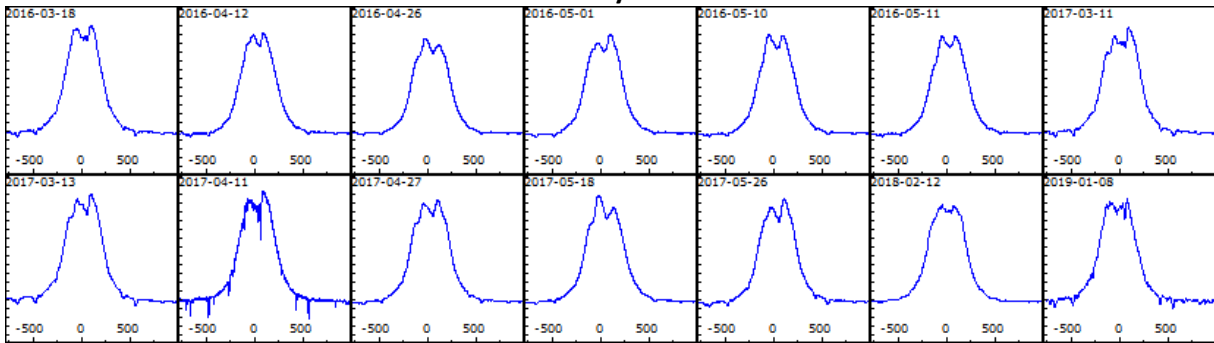
tet CrB



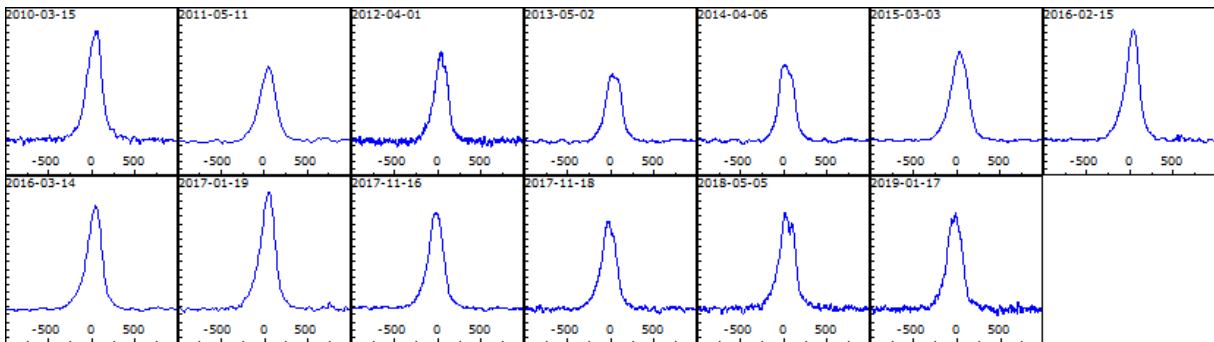
zet Crv



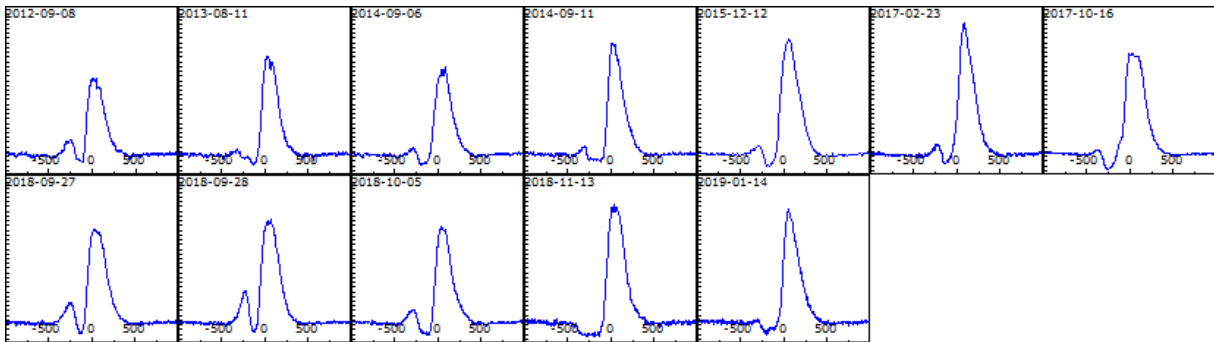
I Hya



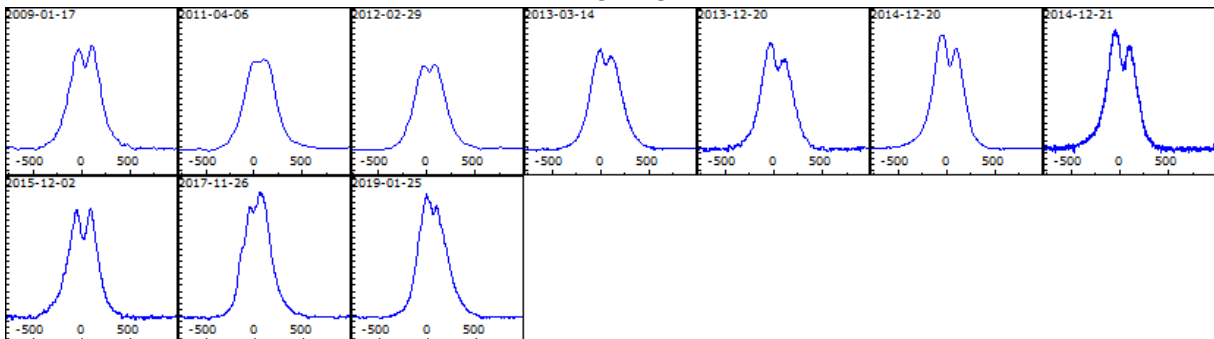
HD 76868



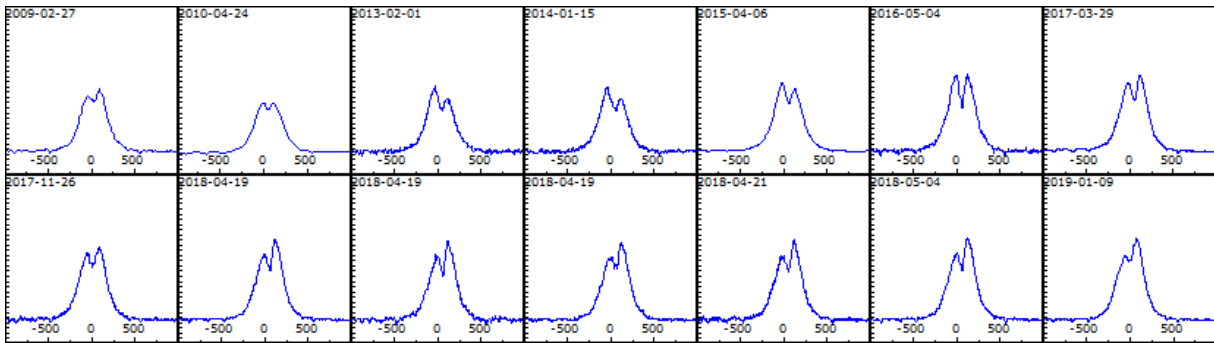
HD 31648



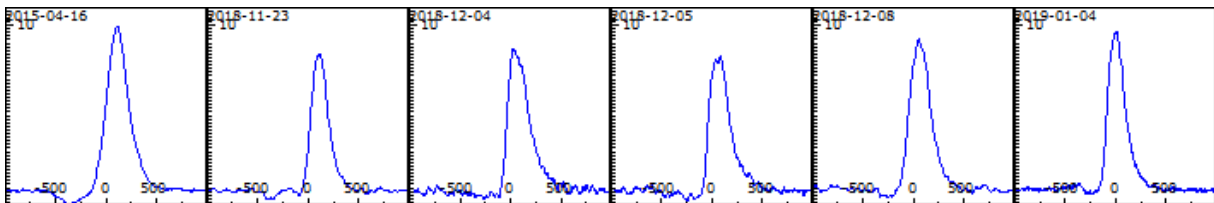
HD 37115



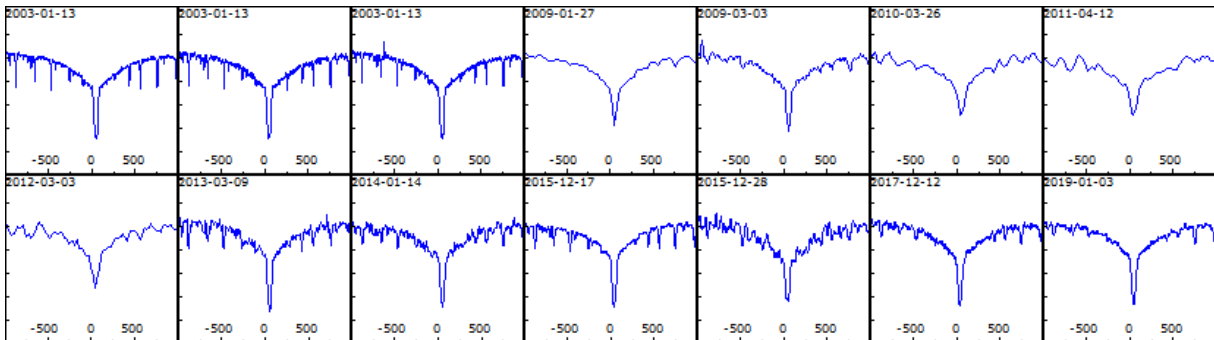
HD 89884



V1307 Ori

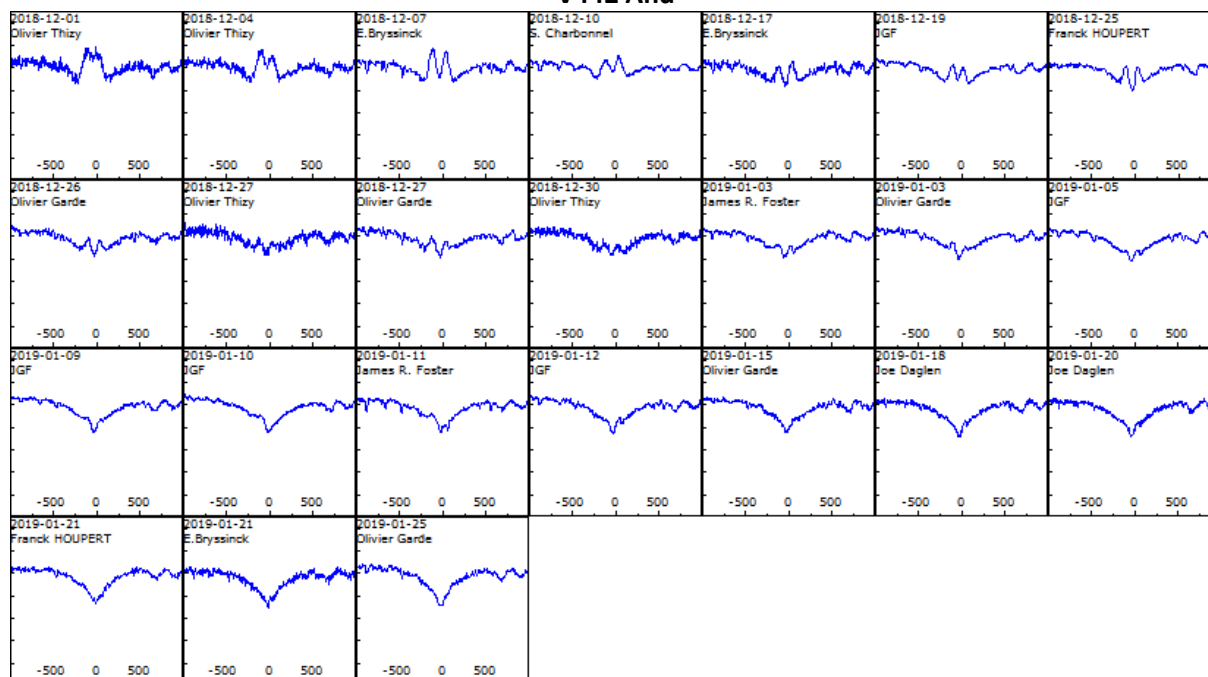


HD 37971

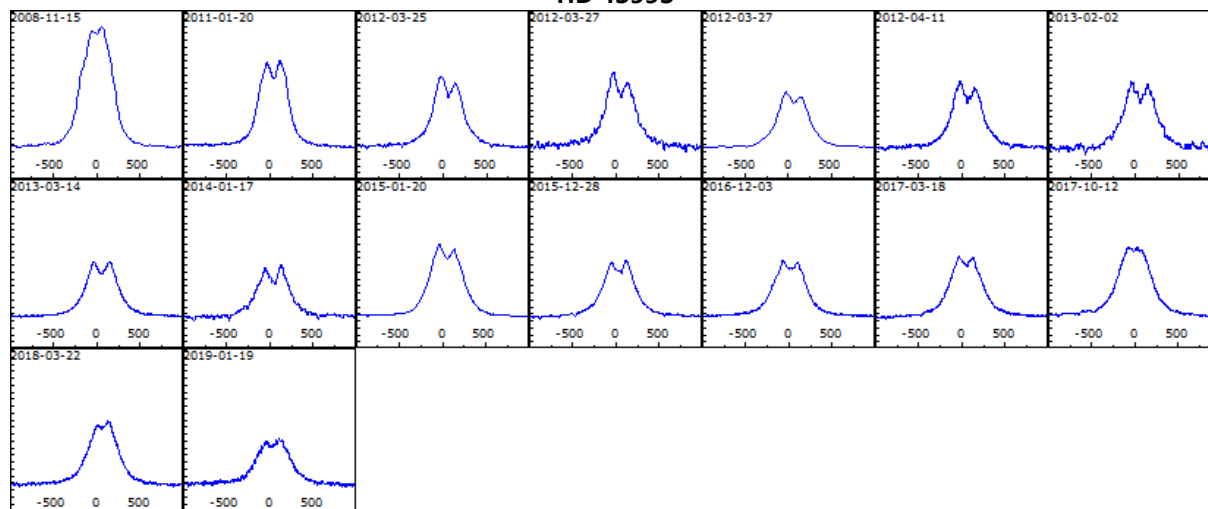


Emission decrease of H-alpha line

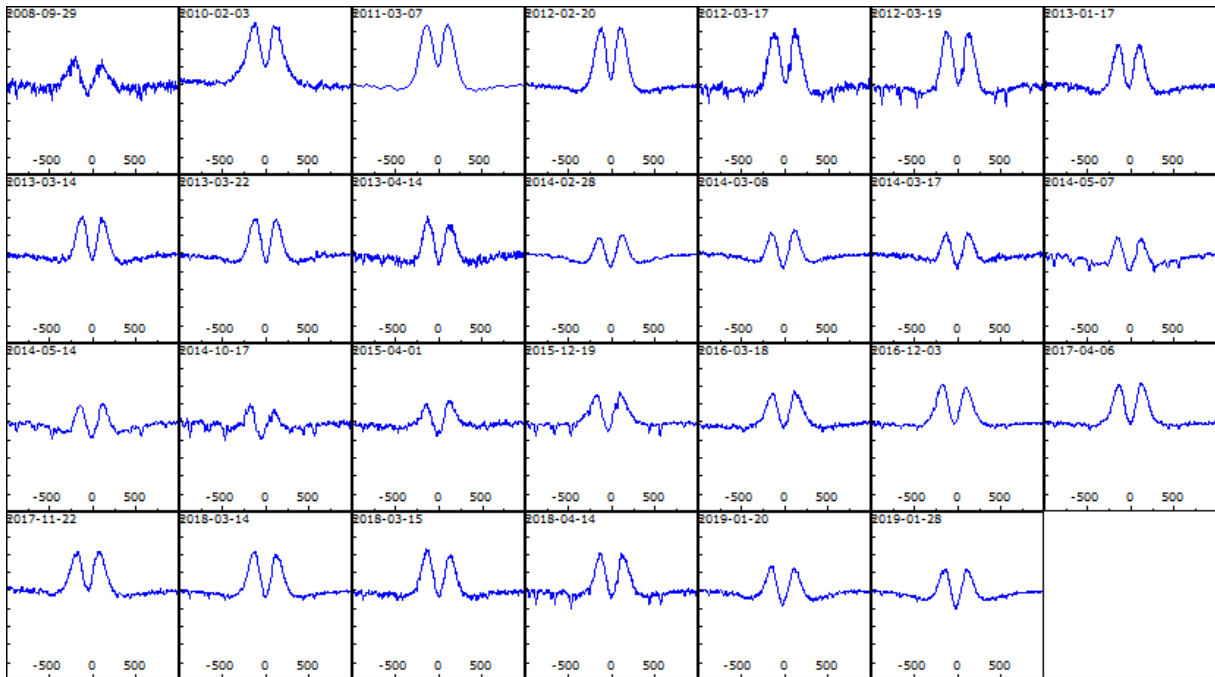
V442 And



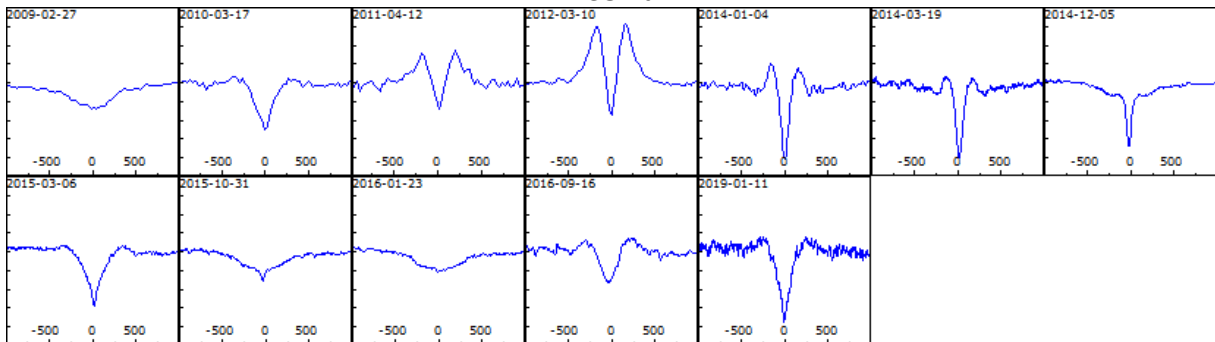
HD 45995



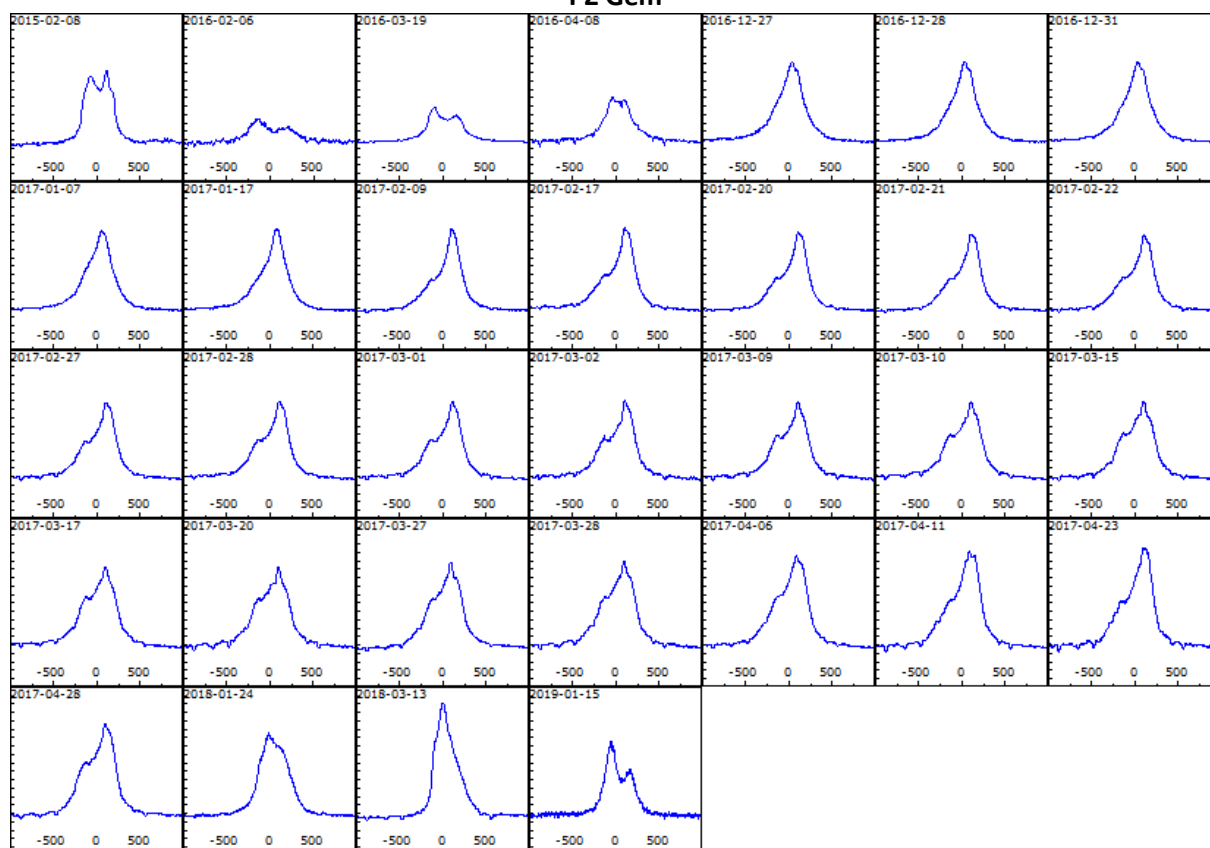
HD 50658



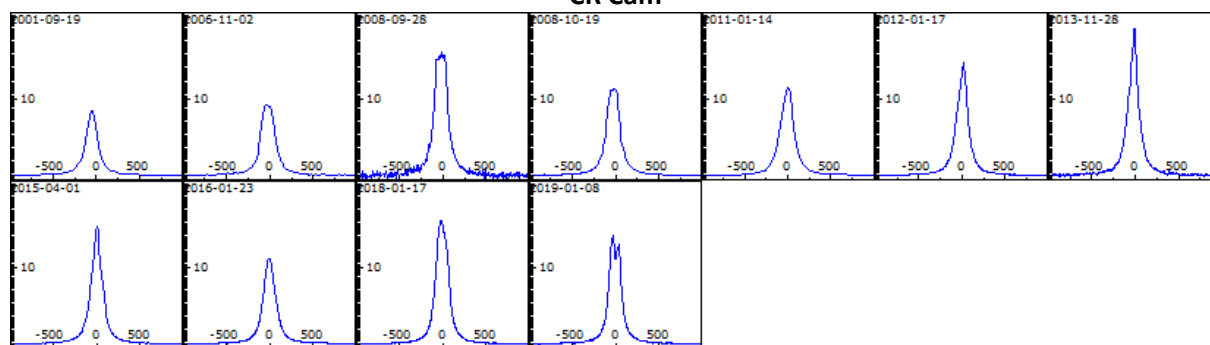
V438 Aur



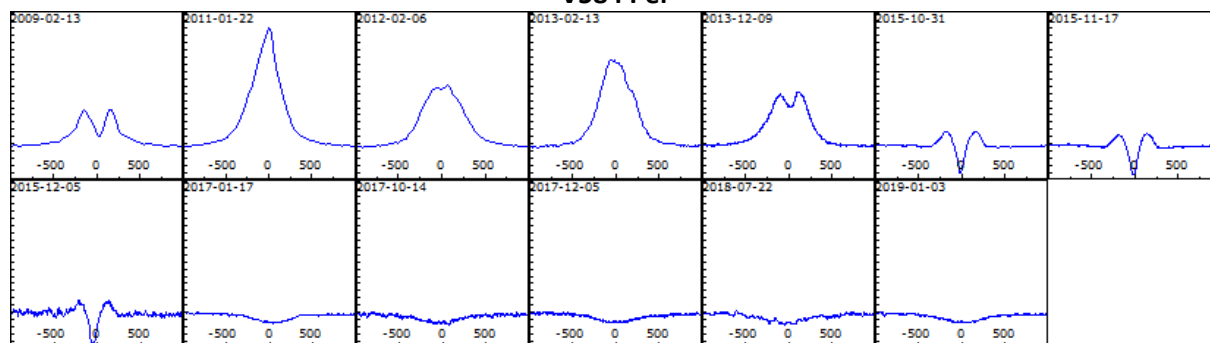
PZ Gem

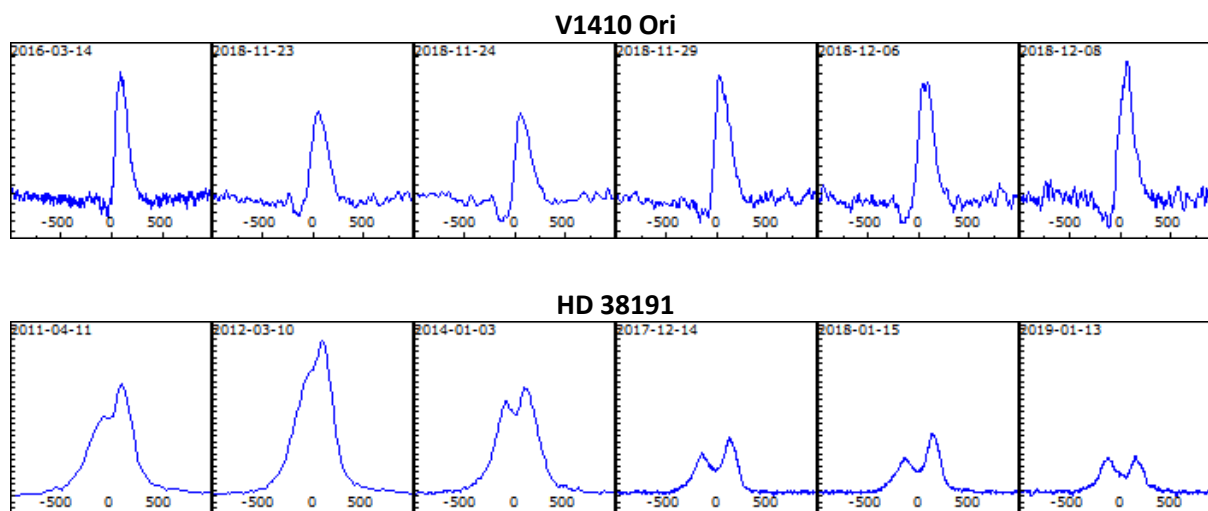


CR Cam



V584 Per





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/>