

BeSS report – April 2018

Data compiled by Valérie Desnoux – H-alpha monitoring

- 74 stars were observed
- 15 Observers contributed this month
- 168 Spectra

Observers...

Observateur	Nb spec
Thizy	35
GARDE	25
HOUPERT	16
James	14
Buil	14
bertrand	13
Sawicki	13
Graham	9
Bohlsen	9
Lecocq	6
Guarro Fló	4
Fosanelli	4
Desnoux	3
de Bruin	2
KREIDER	1
Total général	168

Events of the month...

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

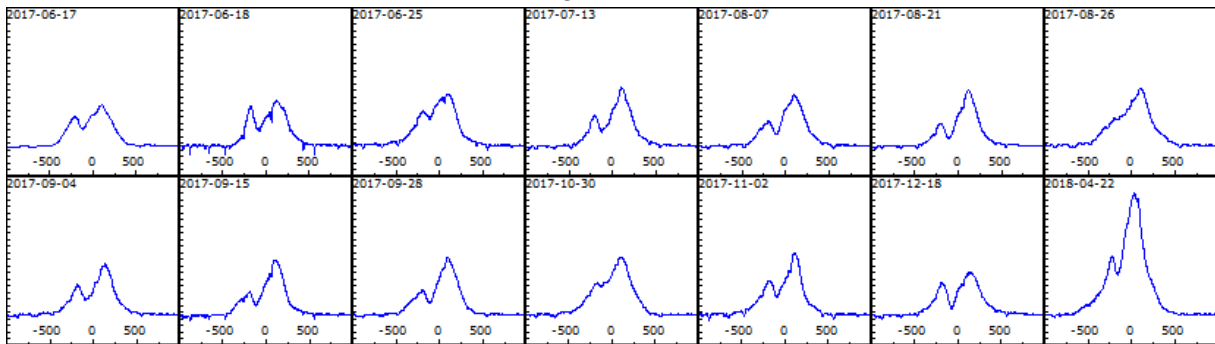
EE	ME	DE	EE	ME	DE
SHELIAC	zet Tau	FY CMa	B7Ve	B2IVe	B1Ile
HL Lib	nu Gem	QR Vul	B9IVe	B6Ile	B3Ve
V1026 Sco	kap Dra	HD 162428	A8Ve	B6IIIpe	A0e
HD 112028	66 Oph	V974 Her	A1IIIsh	B2Ve	B8Vne
V2120 Cyg	48 Lib	HD 171780	B2Ve	B8Ile	B5Vne
HD 57682	omi Her	25 Cyg	O9Ve	B9.5Ve	B3IVe
	V532 Lyr	11 Cam		B4Ve	B2.5Ve
	zet Oph	HD 75485		O9Ve	B9Ile
	CX Dra	j Cen		B2.5Ve	B3Vne
	OY Hya			B5Ve	
	51 Oph			A0Ve	
	HD 89884			B5Ile	
	kap CMa			B1.5Ve	
	del Cen			B2Vne	

Objects observed

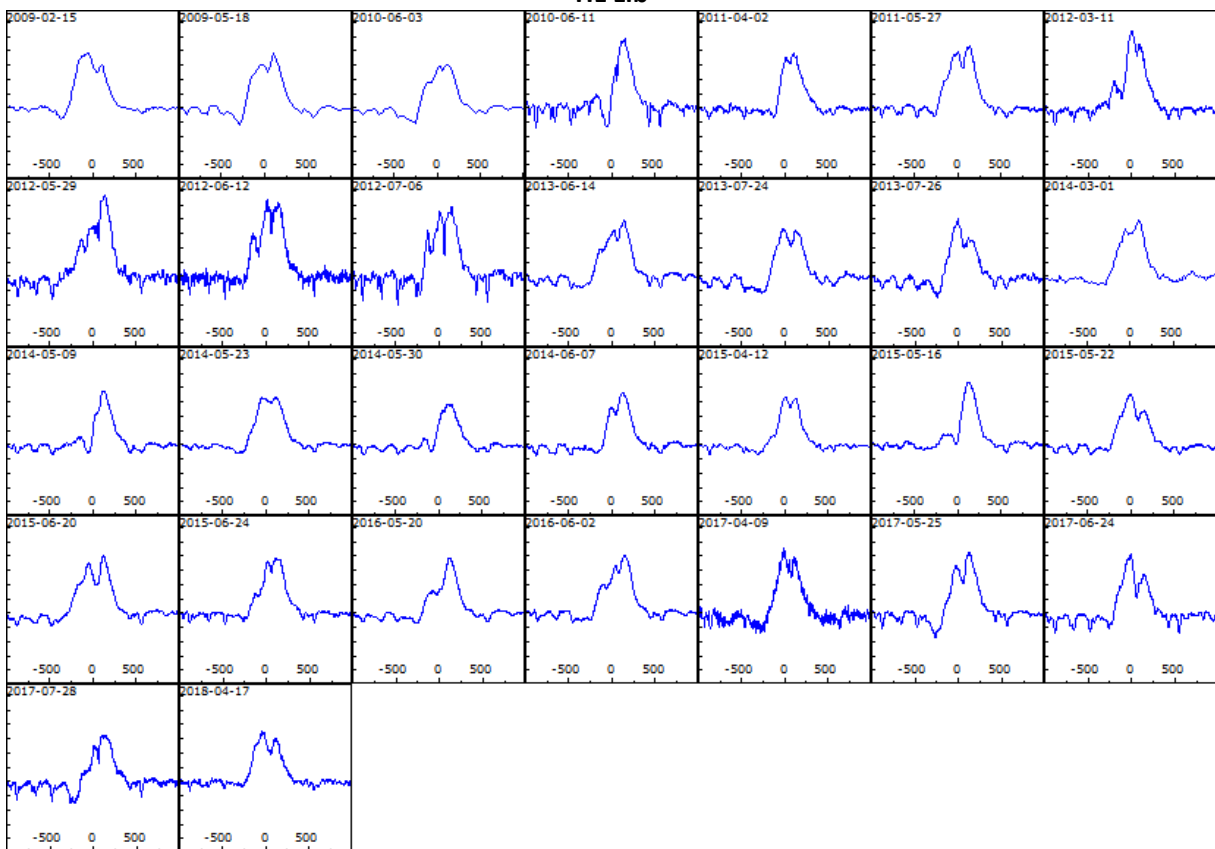
Classique							Classic or Herbig	Herbig
gam Cas	GP Vir	66 Oph	HD 50658	25 Cyg	HD 127617	j Cen	51 Oph	V1026 Sco
zet Tau	kap Dra	48 Lib	CQ UMa	HD 208682	OY Hya	f Car		V380 Cep
PLEIONE	HD 79066	omi Her	HD 91120	48 Per	HD 175511	del Cen		
OT Gem	17 Sex	V532 Lyr	HD 171780	lam Eri	HD 89884	A Cen		
5 Cnc	HD 70340	53 Boo	28 Cyg	HD 183339	HD 175863	V863 Cen		
tet CrB	phi Leo	4 Her	V2315 Oph	11 Cam	HD 112028	HD 57682		
bet CMi	HD 76868	zet Oph	z Her	AX Mon	HD 75485	V695 Mon		
nu Gem	del Sco	HD 162428	iot Lyr	HD 71072	kap CMa	BK Cam		
FY CMa	QR Vul	HD 168957	V1040 Sco	69 Ori	FW CMa	CX Dra		
PHECDA	SHELIAC	V974 Her	ALFIRK	HD 68468	V2120 Cyg	HL Lib		
zet Crv								

Emission increase since last observations

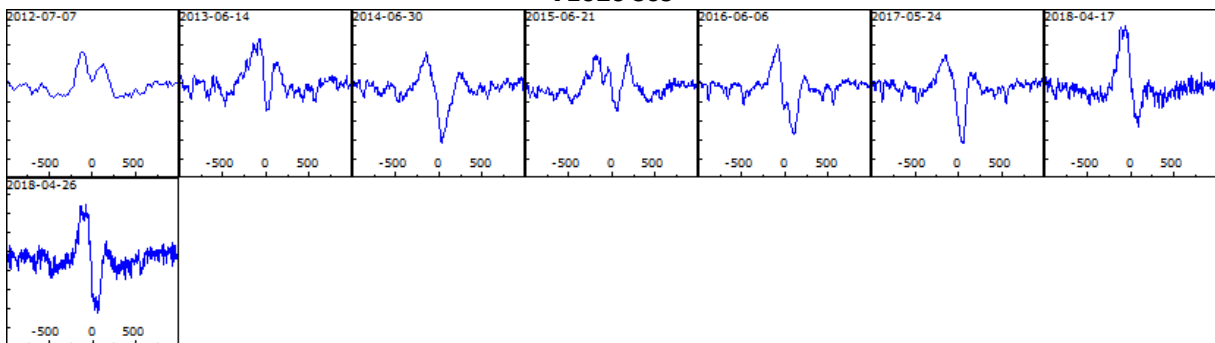
SHELIAK



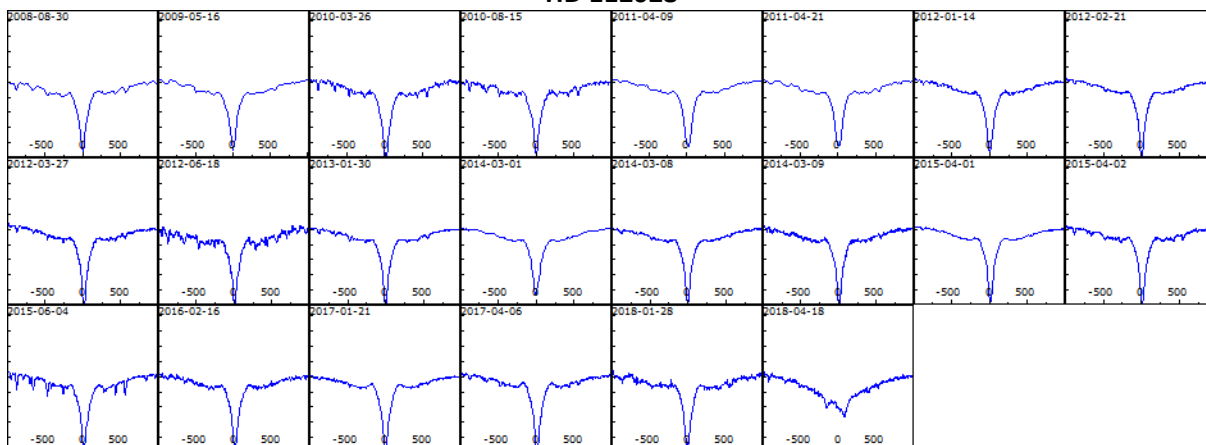
HL Lib



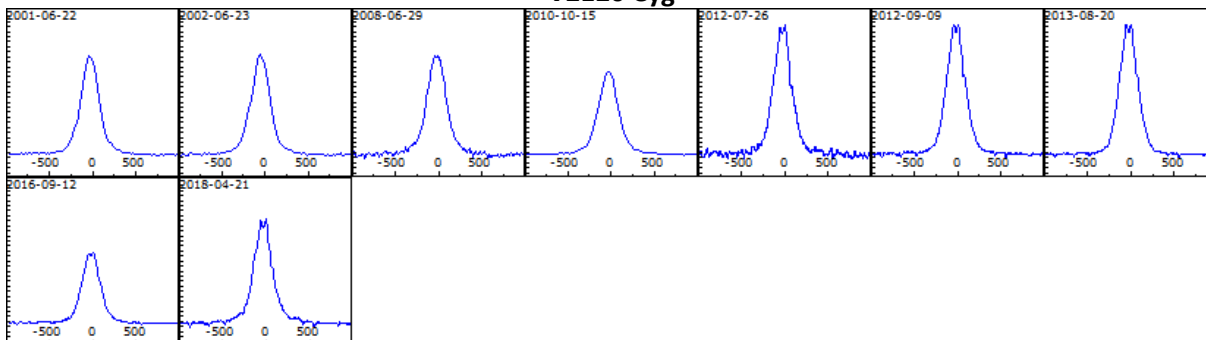
V1026 Sco



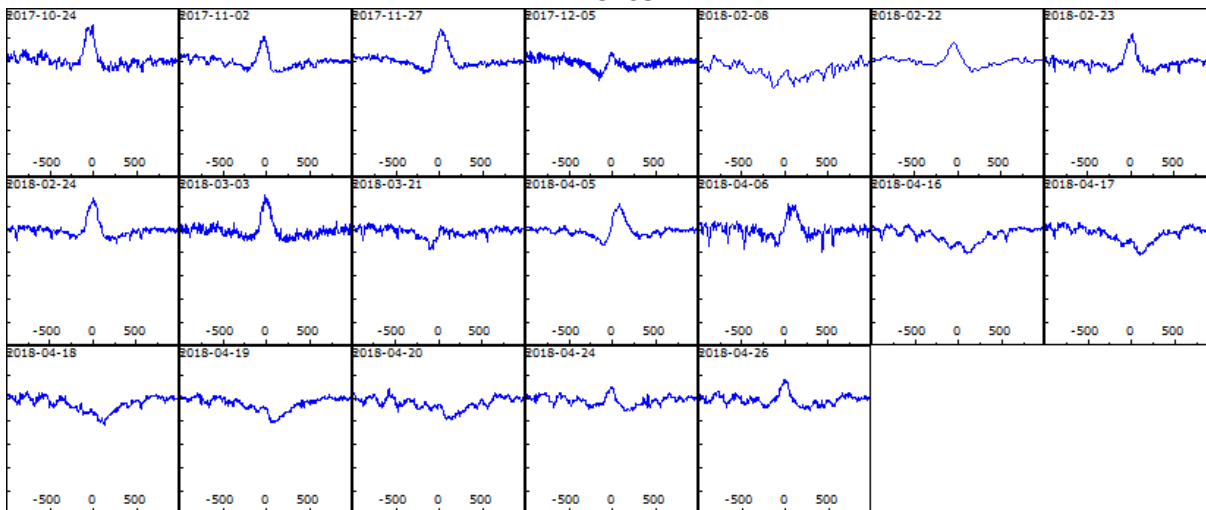
HD 112028



V2120 Cyg

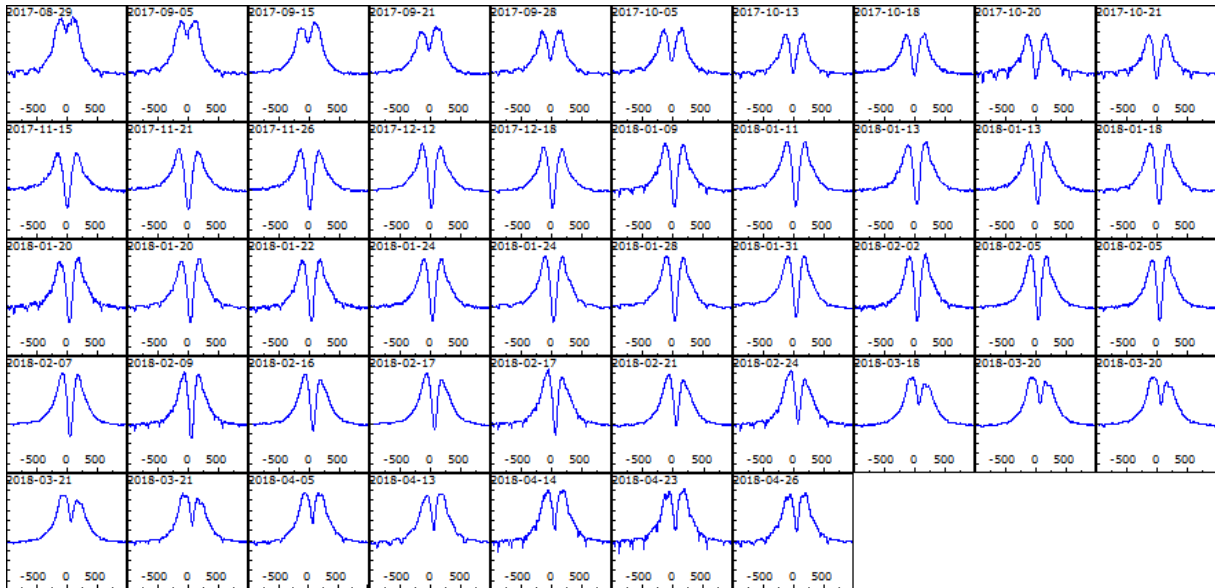


HD 57682

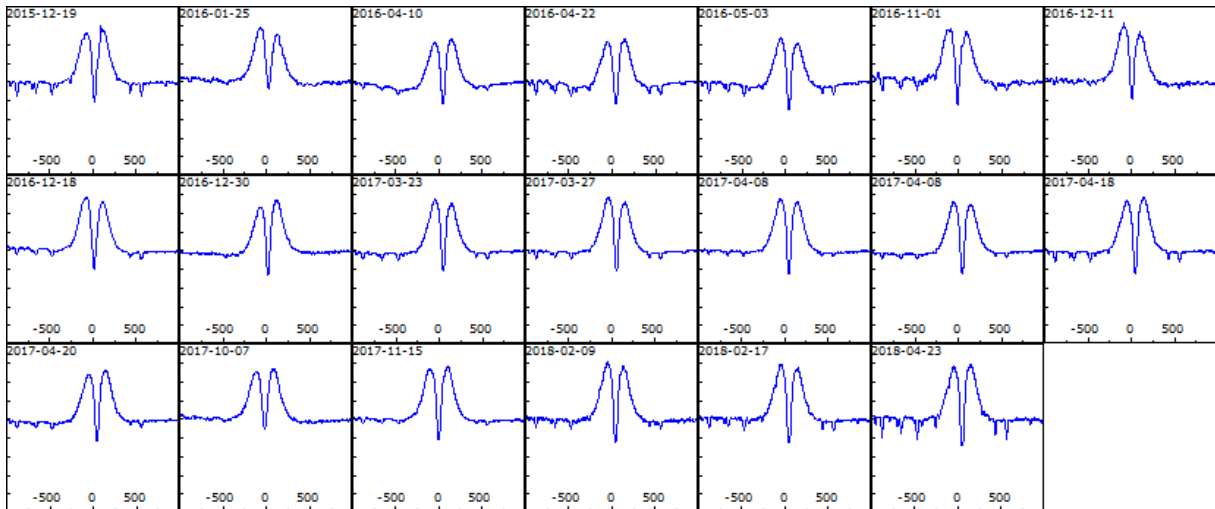


Moderate evolutions of H-alpha line

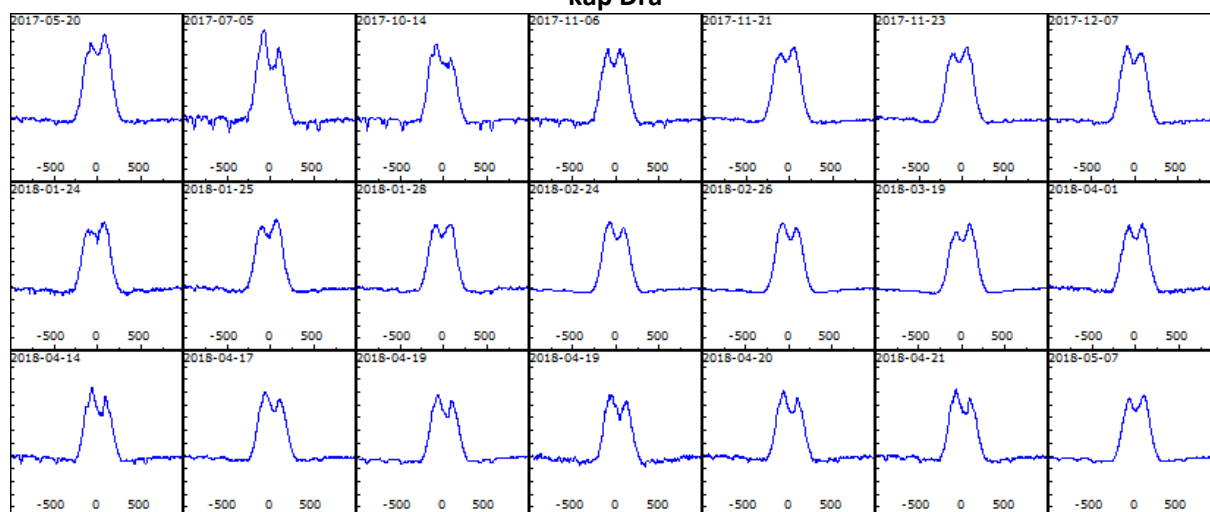
zet Tau



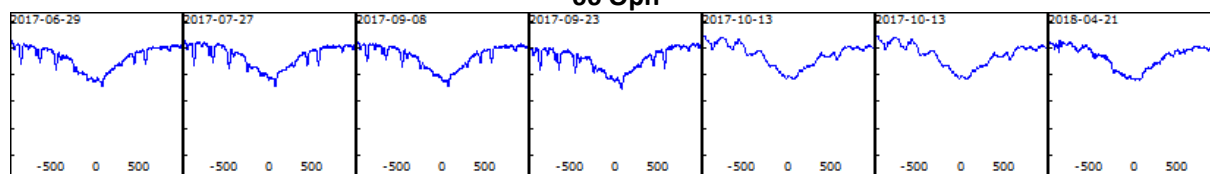
nu Gem



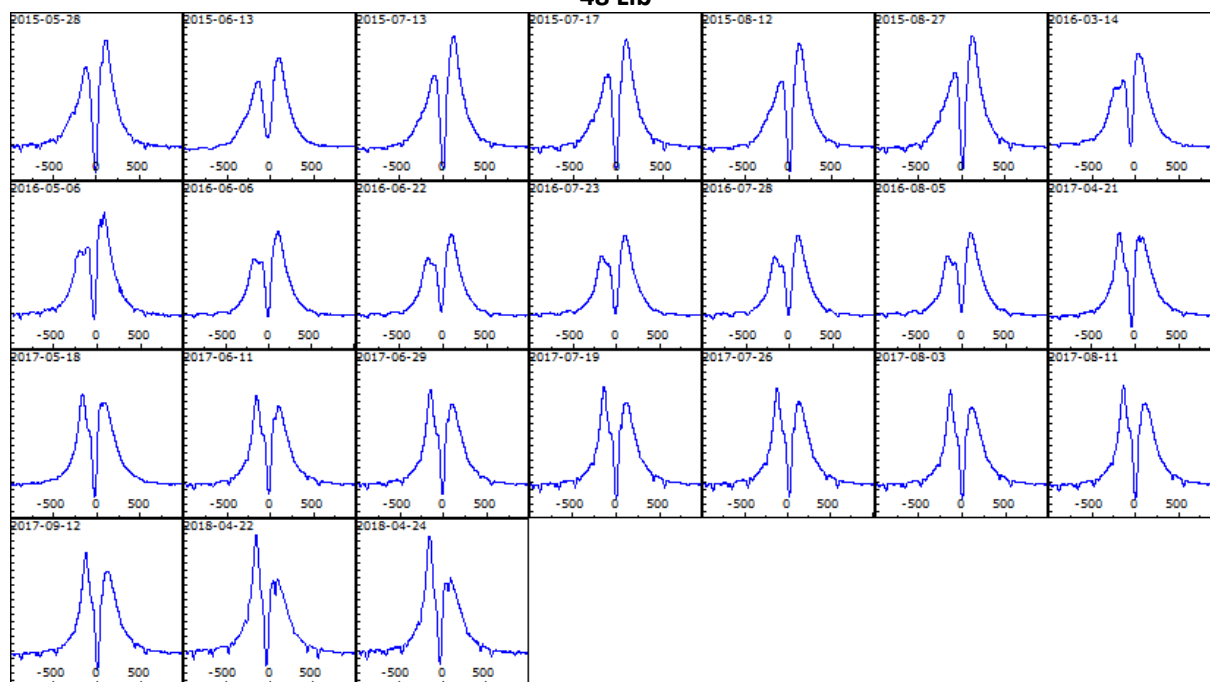
kap Dra



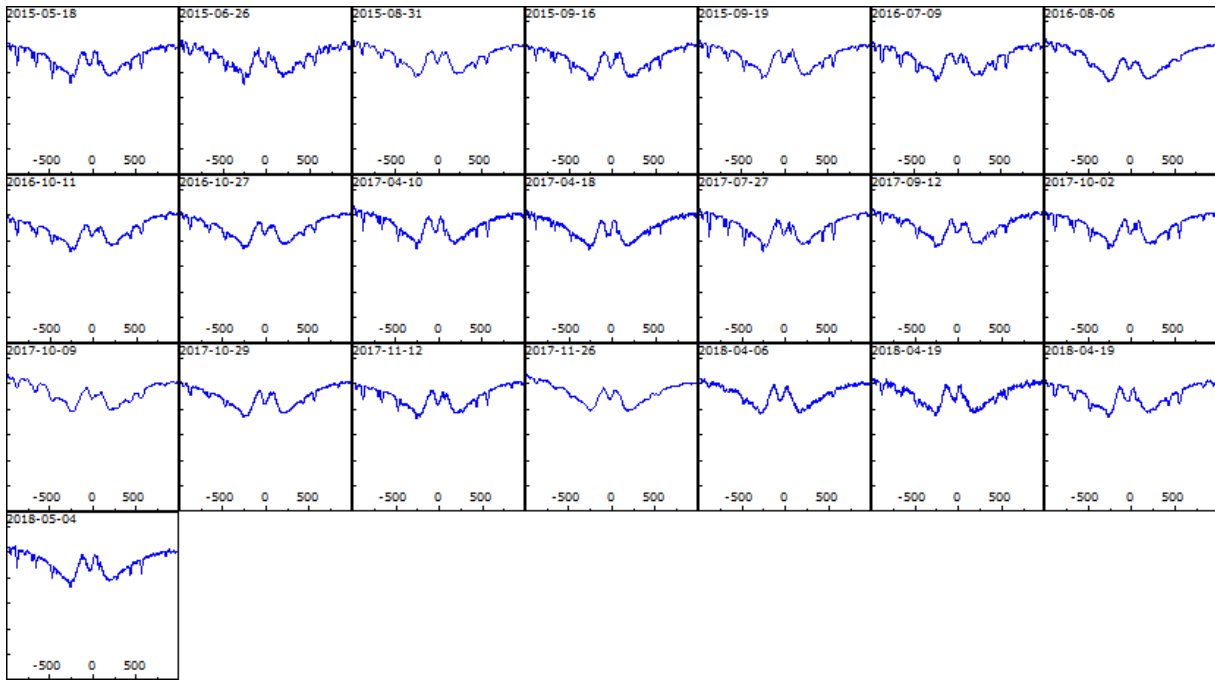
66 Oph



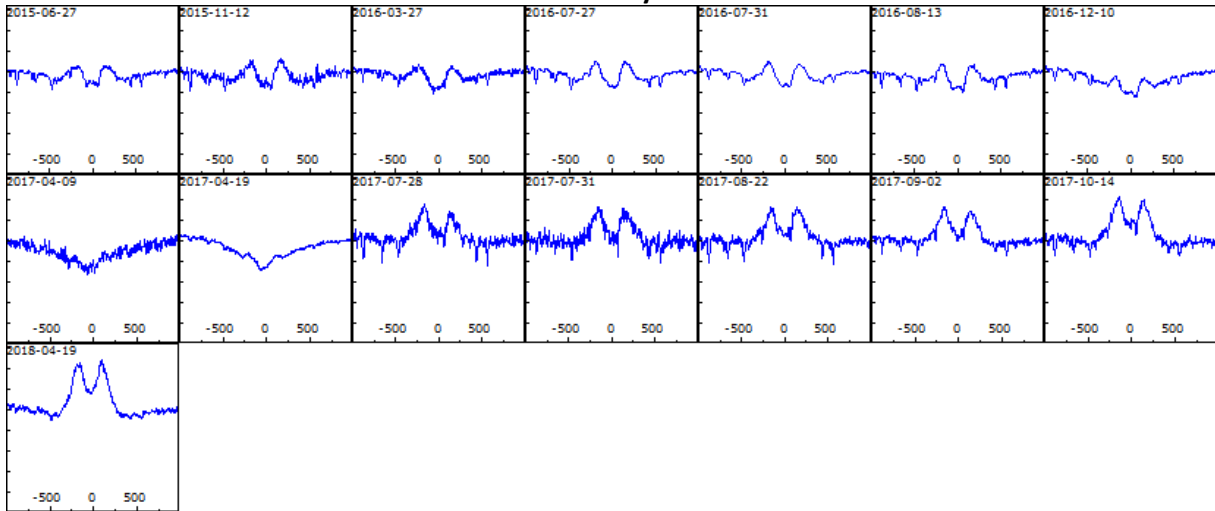
48 Lib



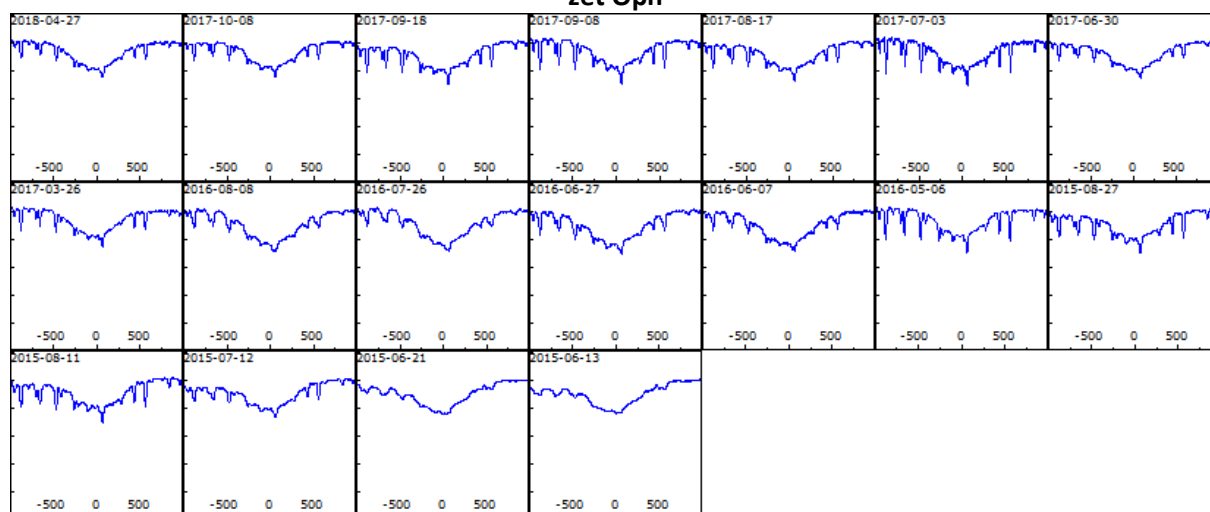
omi Her



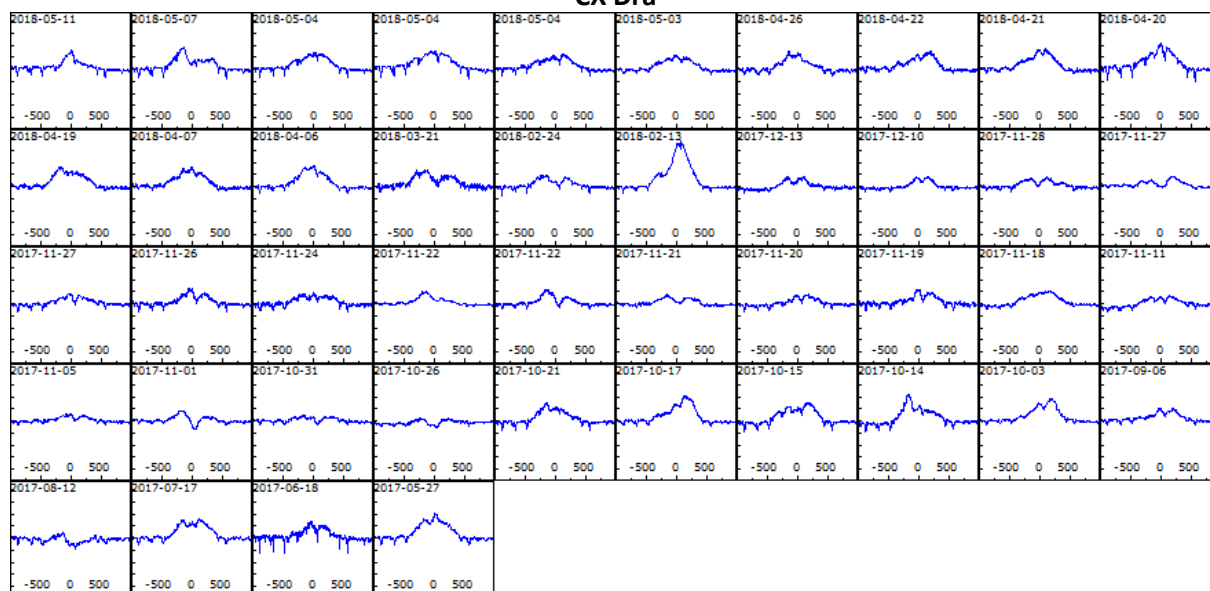
V532 Lyr



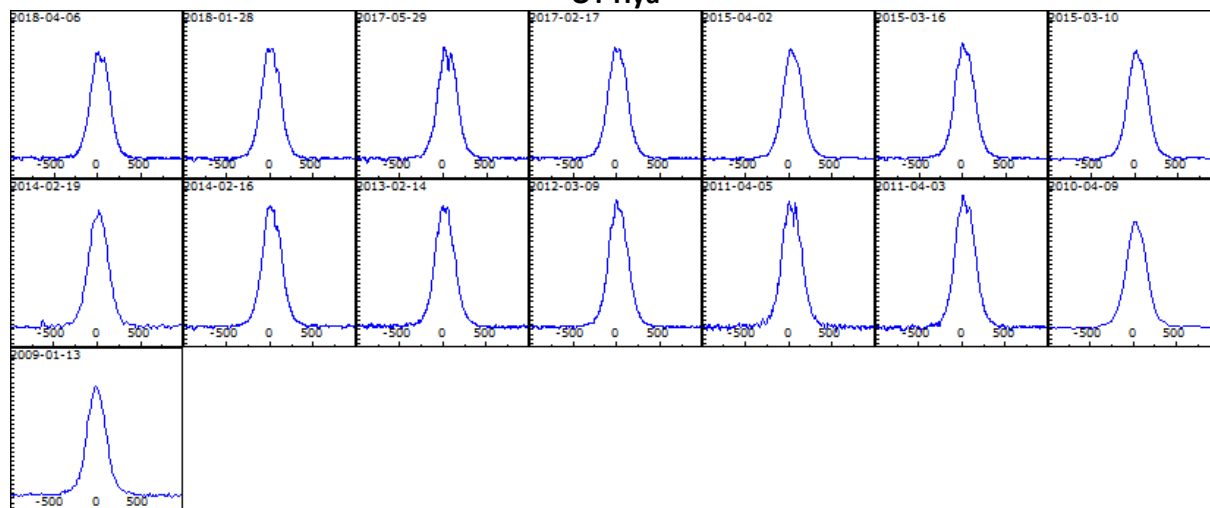
zet Oph



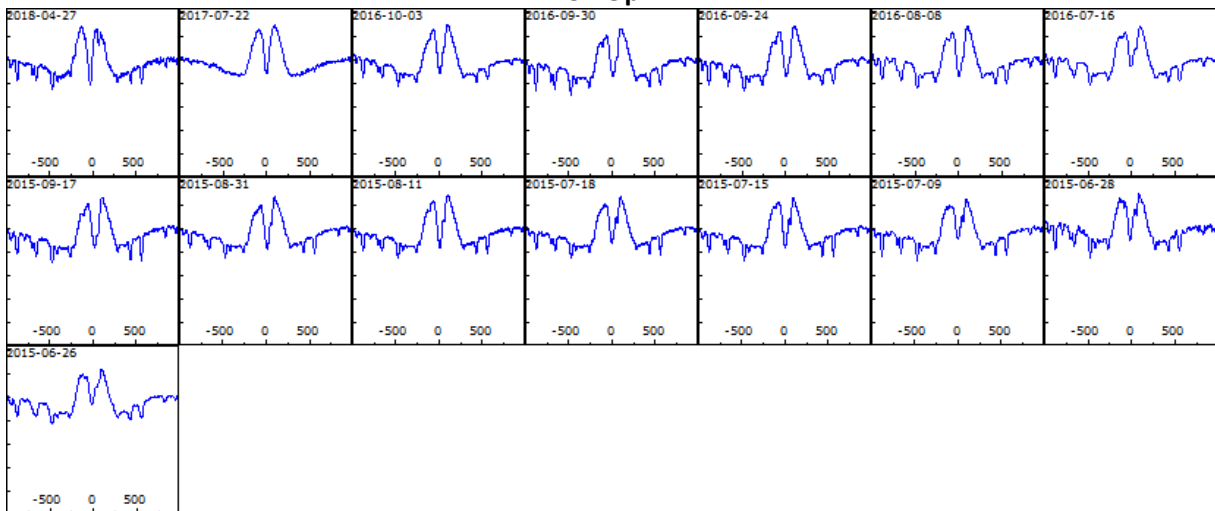
CX Dra



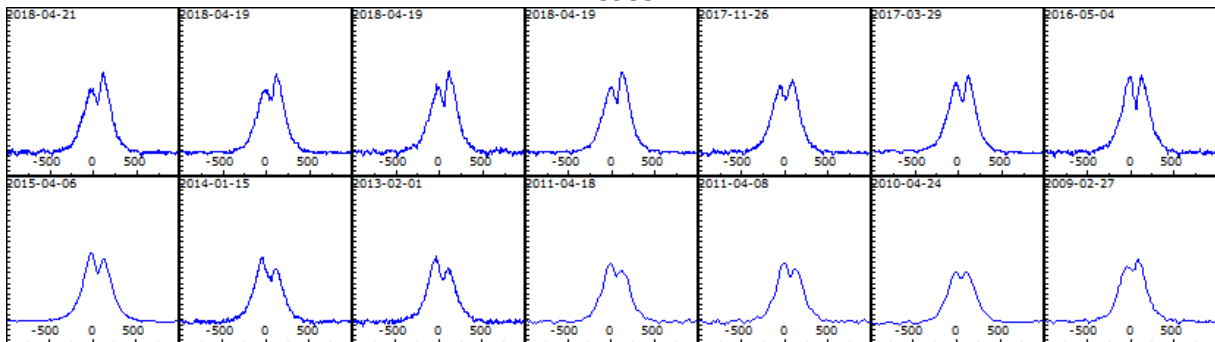
OY Hya



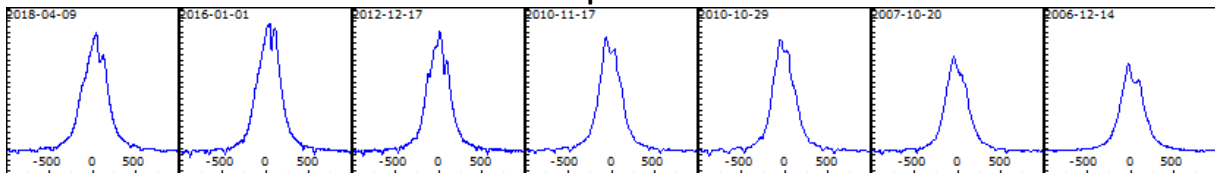
51 Oph



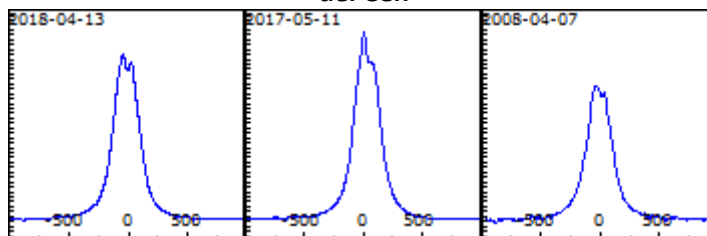
HD 89884



kap CMa

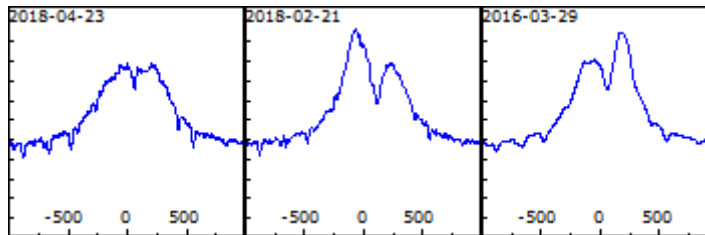


del Cen

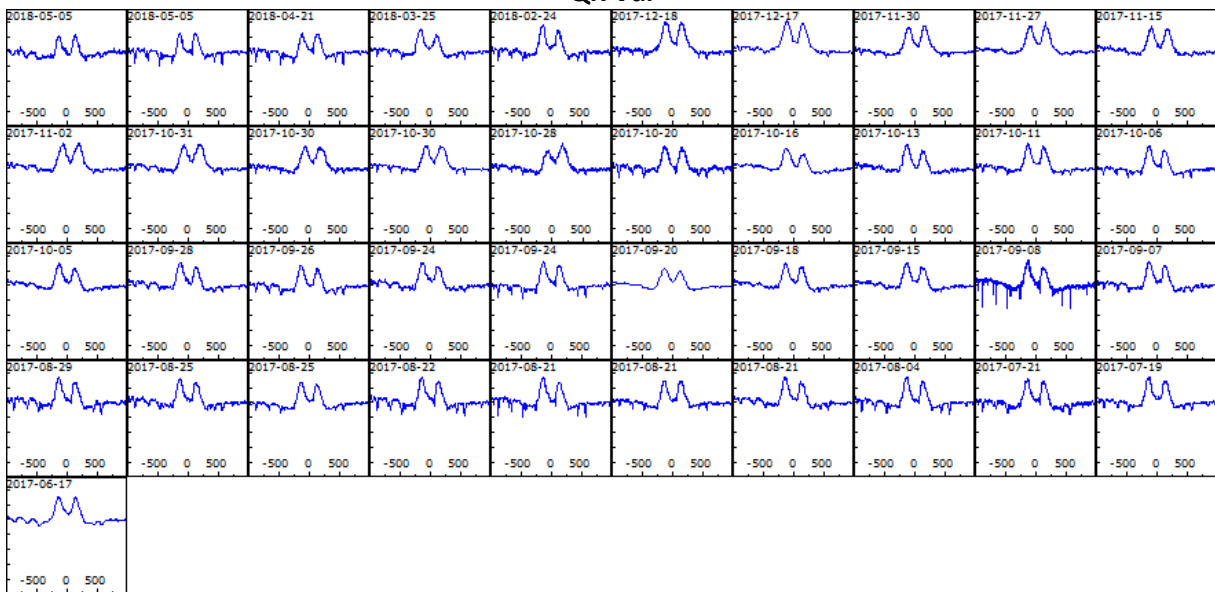


Emission decrease of H-alpha line

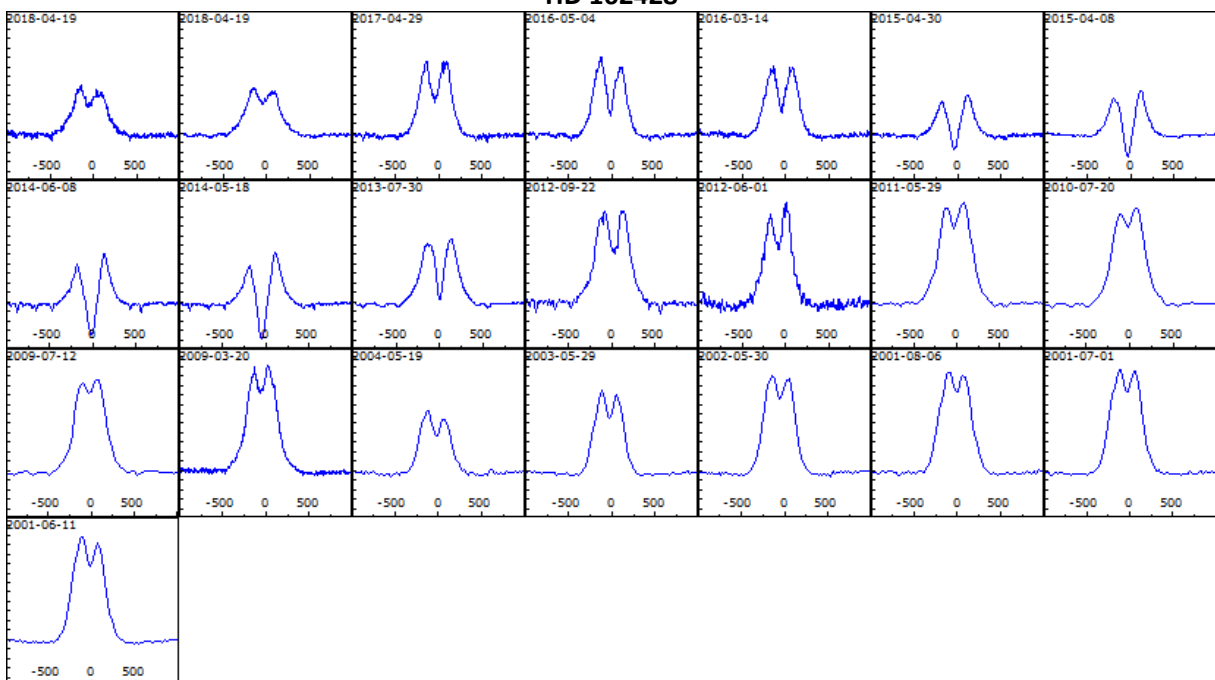
FY CMa



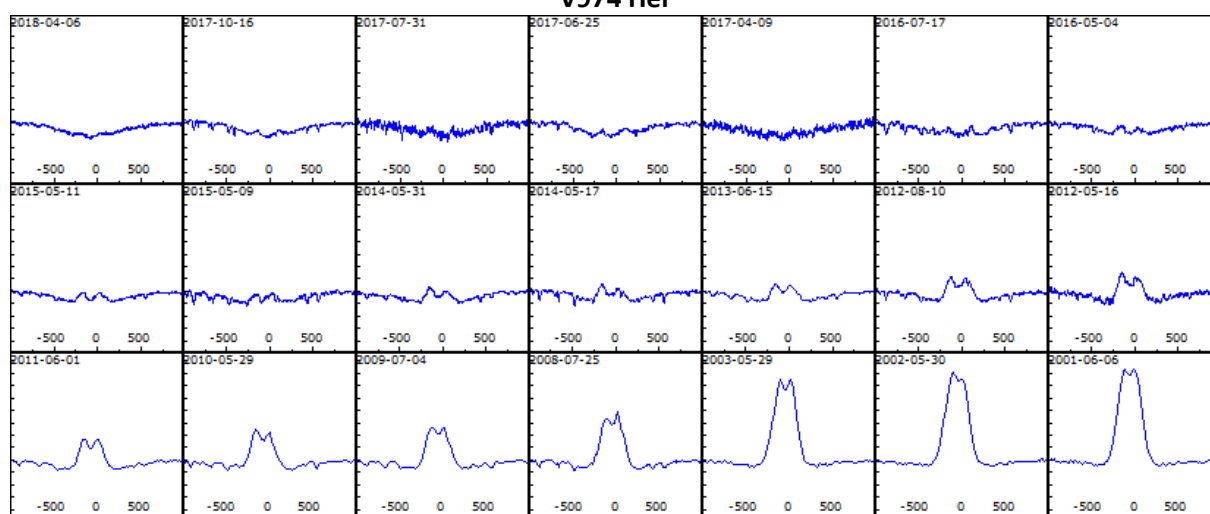
QR Vul



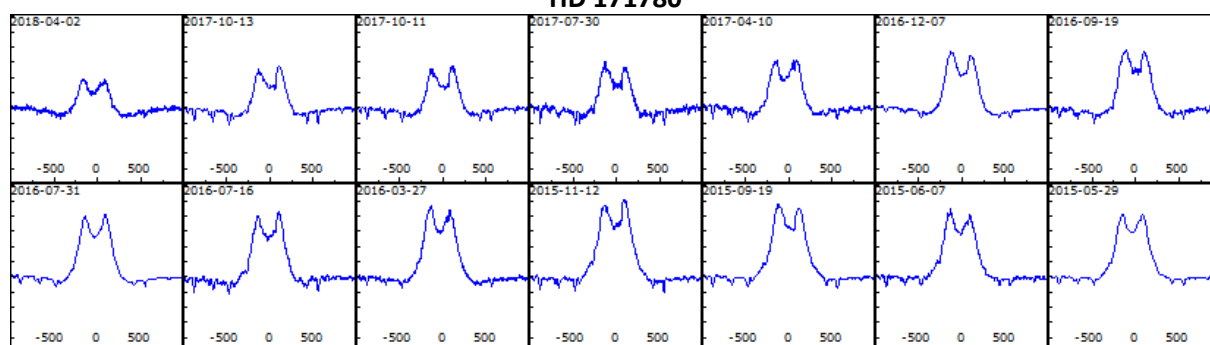
HD 162428



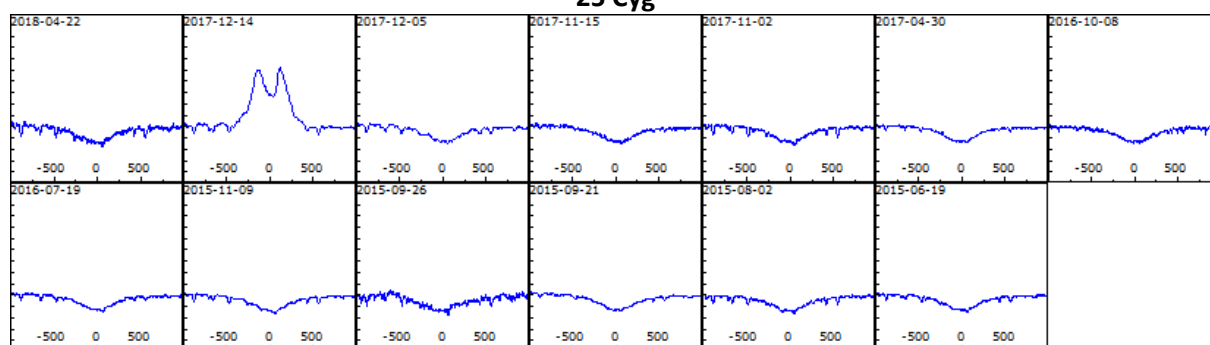
V974 Her



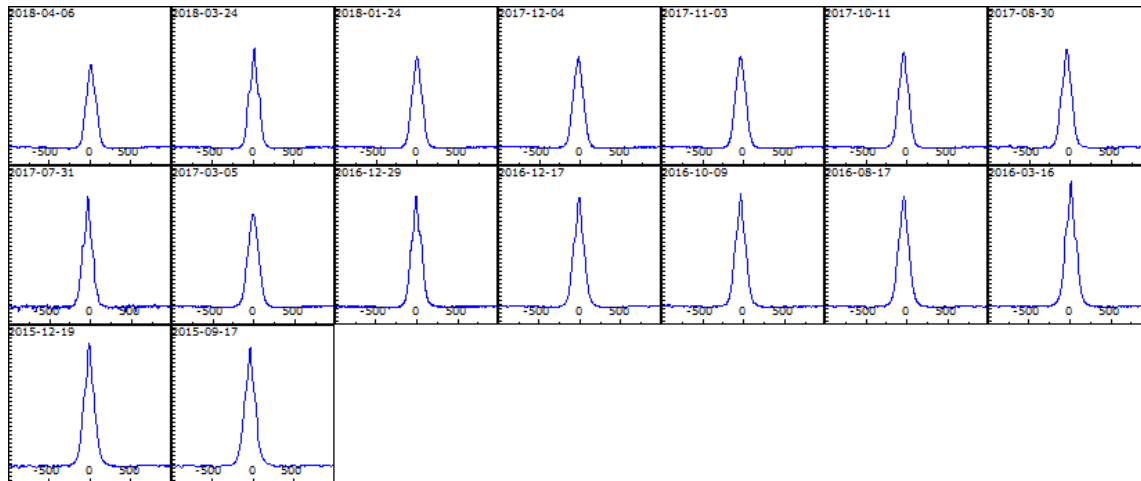
HD 171780



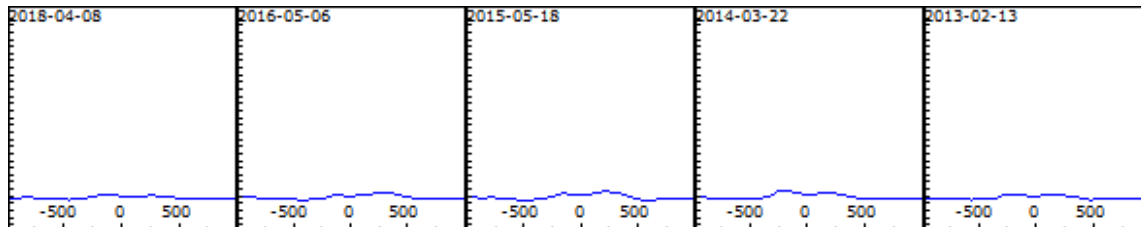
25 Cyg



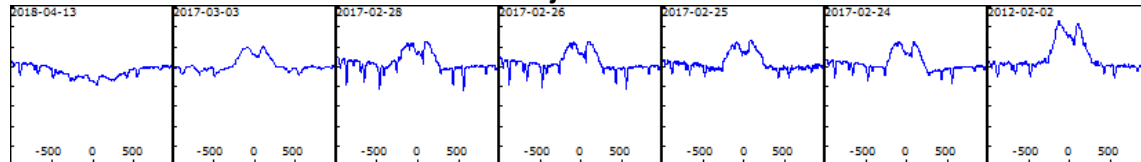
11 Cam



HD 75485



j Cen



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/>