

BeSS report – June 2018

Data compiled by Valérie Desnoux – H-alpha monitoring

- 121 stars were observed
- 18 Observers contributed this month
- 210 Spectra

Observers...

Observateur	Nb spec
Thizy	42
Buil	42
Bryssinck	30
GARDE	28
bertrand	16
Desnoux	9
Dejean	8
Fosanelli	6
HOUPERT	5
Guarro Fló	5
Sawicki	4
Martineau	4
Lecocq	4
Charbonnel	3
KREIDER	1
Arlic	1
Bohlsen	1
Thizy Tressol	1
Total général	210

Events of the month...

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

EE	ME	DE	EE	ME	DE
QT Ser	kap Dra	V442 And	B5e	B9e	B2IVe
14 Lac	66 Oph	V2113 Cyg	B3IVe	B6IIIpe	B1Vnnpe
V2136 Cyg	4 Her	HD 194057	B4Ve	B2Ve	B1Ile
V2155 Cyg	CX Dra	V1339 Aql	B1Ve	B2Ve	B2.5IVe
HD 166917	iot Lyr	ALFIRK	B8IIIe	B9pe	B2IIIev
HD 174886	lam Cyg	omi And	B4IIIe	B2.5Ve	B6IIIpe
HD 344313	EW Lac	V1294 Aql	B5e	B6IVe	B0Ve
HD 176630	ups Cyg	KX And	B3IIIe	B5Ve	Bpe
HD 344800	V558 Lyr	V568 Cyg	B5e	B3IVpe	B2IVe
V1427 Cyg	HD 181409	omi Aqr	B2Ve	B2Vne	B7IVe
V361 Cep	V423 Lac	V2148 Cyg	B1IIIe	B3Ve	B4IVpe
BD+30 3526	V357 Lac	HD 206773	B2IIIpshev	B2IVe	B0Vpe
HD 225985	CW Cep	HD 179218	B2IVne	B3Vne	A0IVe
HD 172158	V439 Cep	HD 163296	B8Ile	B1Vnnpev	A1Ve
V4400 Sgr	HD 175863	V718 Sco	B2Vnne	B1Vve	A8IIIe
HD 177015	V447 Sct	HD 161306	B4Vne	B1Ve	B0ne
	eta Cen	V1466 Aql		B4Ve	B7VA5Ve
	HD 169805	V380 Cep		B0.5IVe	B2Ve
		V2307 Oph			A1Ve
		HD 208220			B9e
		V435 Cep			B3Vne

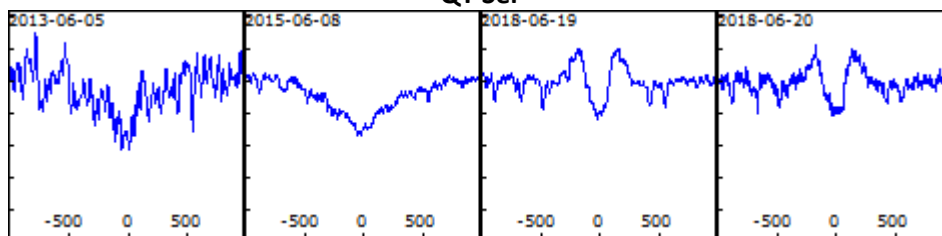
Objects observed

Classique							
V442 And	V2113 Cyg	11 Cyg	V568 Cyg	CW Cep	HD 176630	HD 203356	HD 169805
tet CrB	28 Cyg	ups Cyg	bet Psc	HD 205060	V1466 Aql	eta Cen	HD 170835
PHECDA	z Her	nu Cyg	omi Aqr	V439 Cep	WW Vul	HD 344783	V2166 Cyg
zet Crv	20 Vul	25 Peg	HD 196712	BD+44 3594	V1448 Aql	HD 228104	HD 344313
kap Dra	iot Lyr	omi And	V2148 Cyg	HD 179218	HD 344800	HD 208220	V357 Lac
phi Leo	bet Cyg B	12 Vul	V2139 Cyg	HD 175511	HD 184767	HD 331976	HD 208682
del Sco	V1040 Sco	V558 Lyr	V423 Lac	HD 163296	V1427 Cyg	HD 333226	V2136 Cyg
QR Vul	HD 194057	eps Cas	NT Peg	HD 147196	V380 Cep	HD 350559	CX Dra
SHELIAC	V1339 Aql	V1294 Aql	HD 192445	HD 175863	V361 Cep	V435 Cep	HD 177015
66 Oph	lam Cyg	60 Cyg	V2153 Cyg	HD 112028	BD+30 3526	BD+47 3302	HD 197038

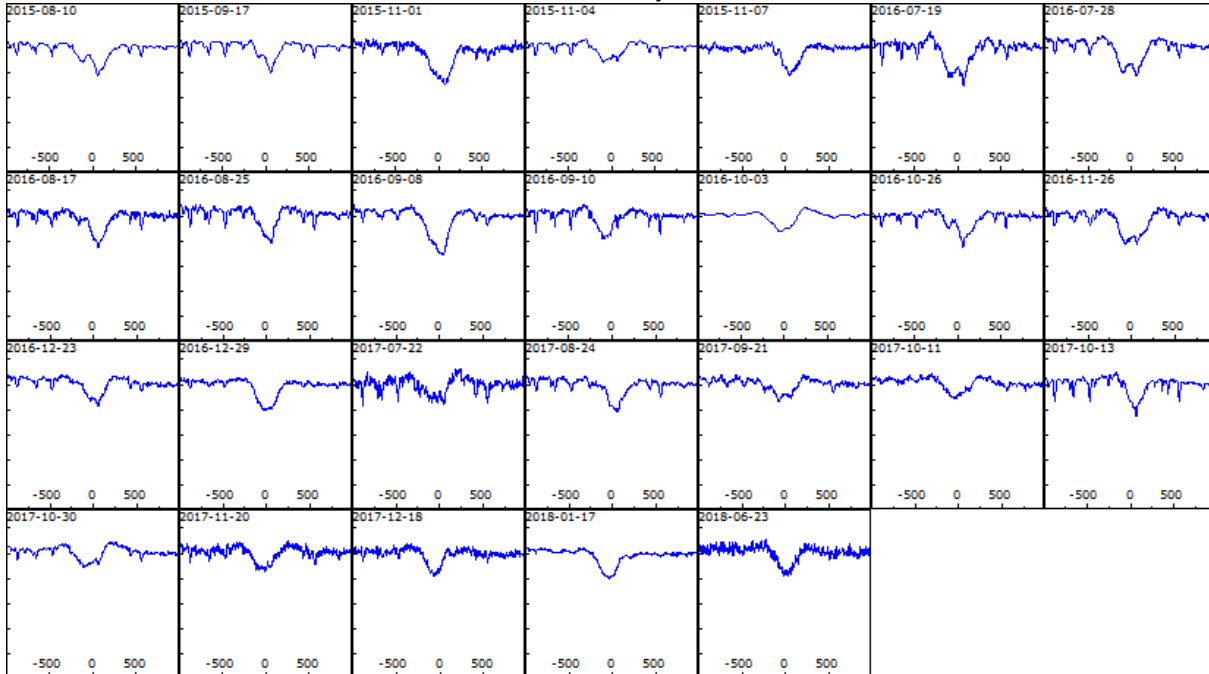
48 Lib	V2103 Cyg	V421 Cep	V408 Lac	HD 166917	V2123 Cyg	V4045 Sgr	HD 161306
omi Her	EW Lac	HD 195554	HD 206773	HD 174886	HD 345122	BD+14 3887	HD 223387
V532 Lyr	pi Aqr	HD 181409	HD 183339	V718 Sco	V2307 Oph	HD 144432	KY And
53 Boo	ALFIRK	V2155 Cyg	LZ Del	HD 170009	V3508 Sgr	HD 172158	14 Lac
4 Her	QT Ser	KX And	V2162 Cyg	V447 Sct	HD 225985	V4400 Sgr	V2119 Cyg

Emission increase since last observations

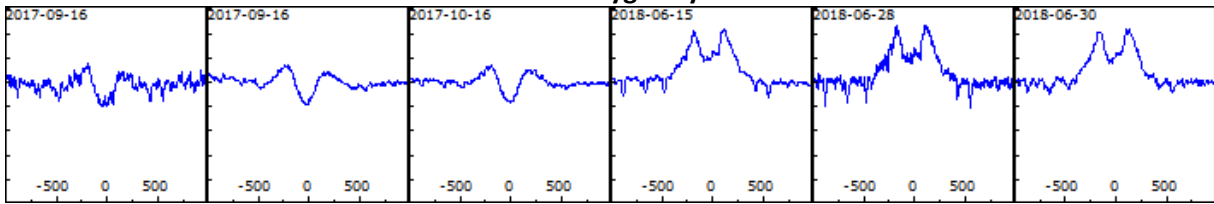
QT Ser



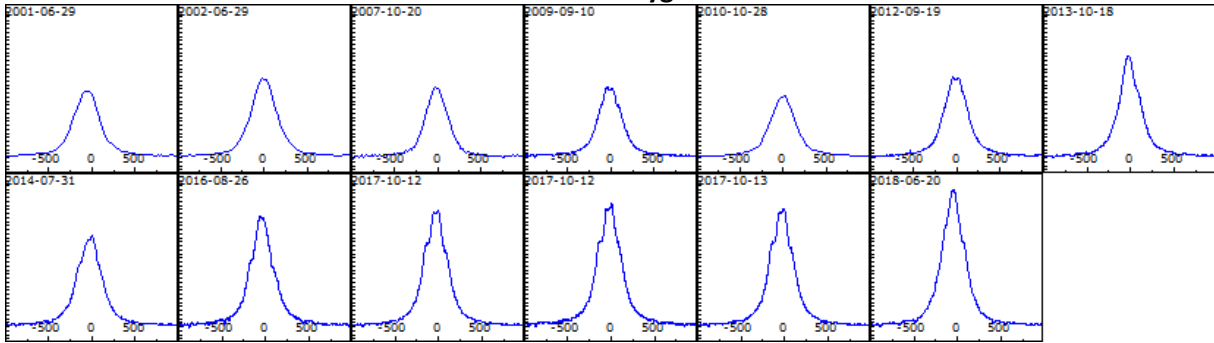
14 Lac – 3yrs



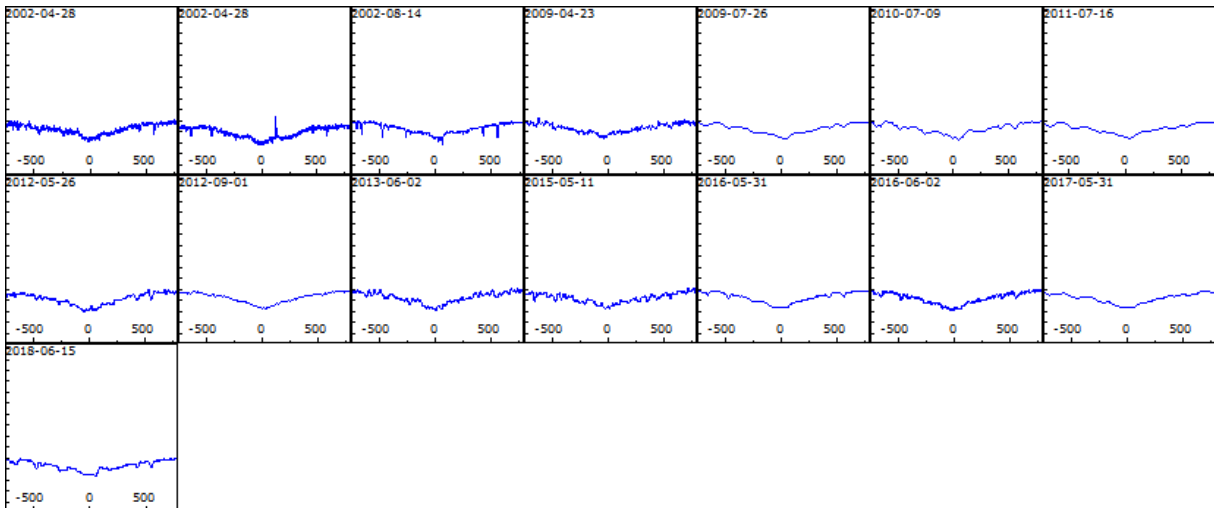
V2136 Cyg – 1 yr



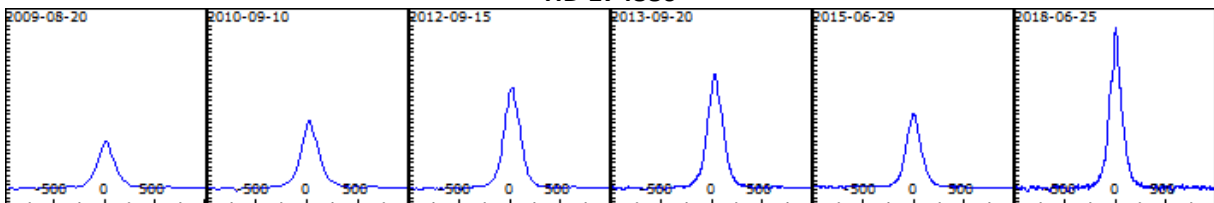
V2155 Cyg



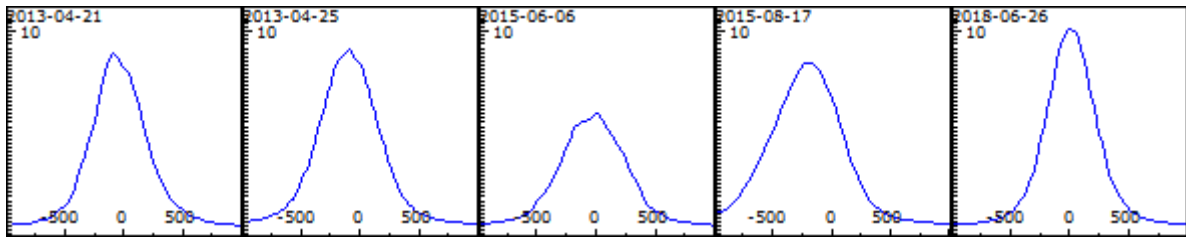
HD 166917



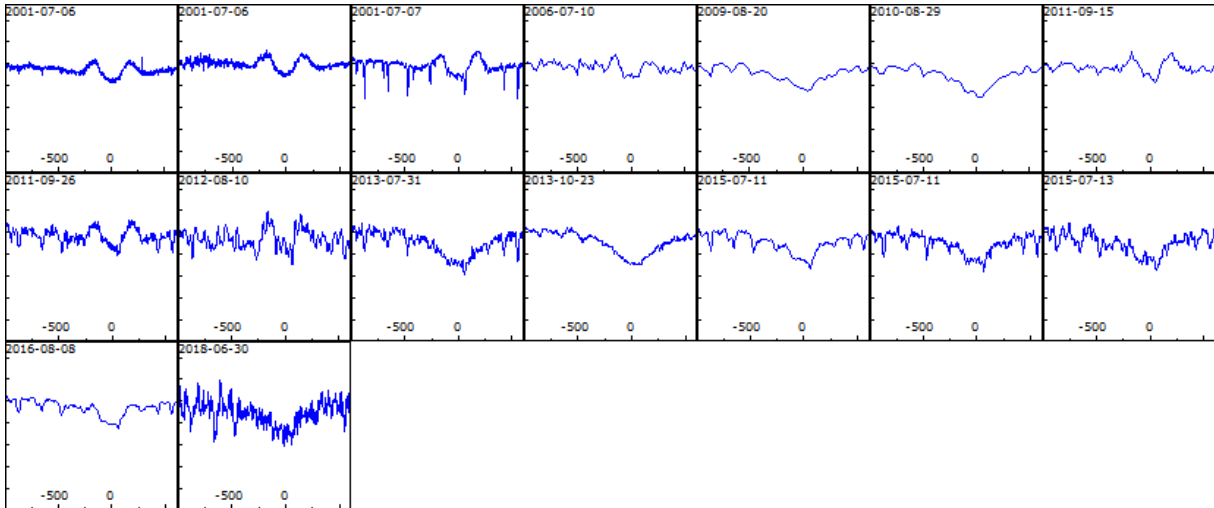
HD 174886



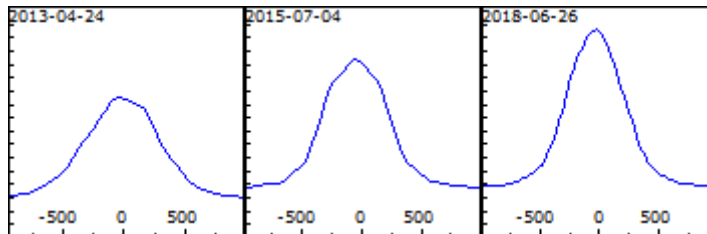
HD 344313



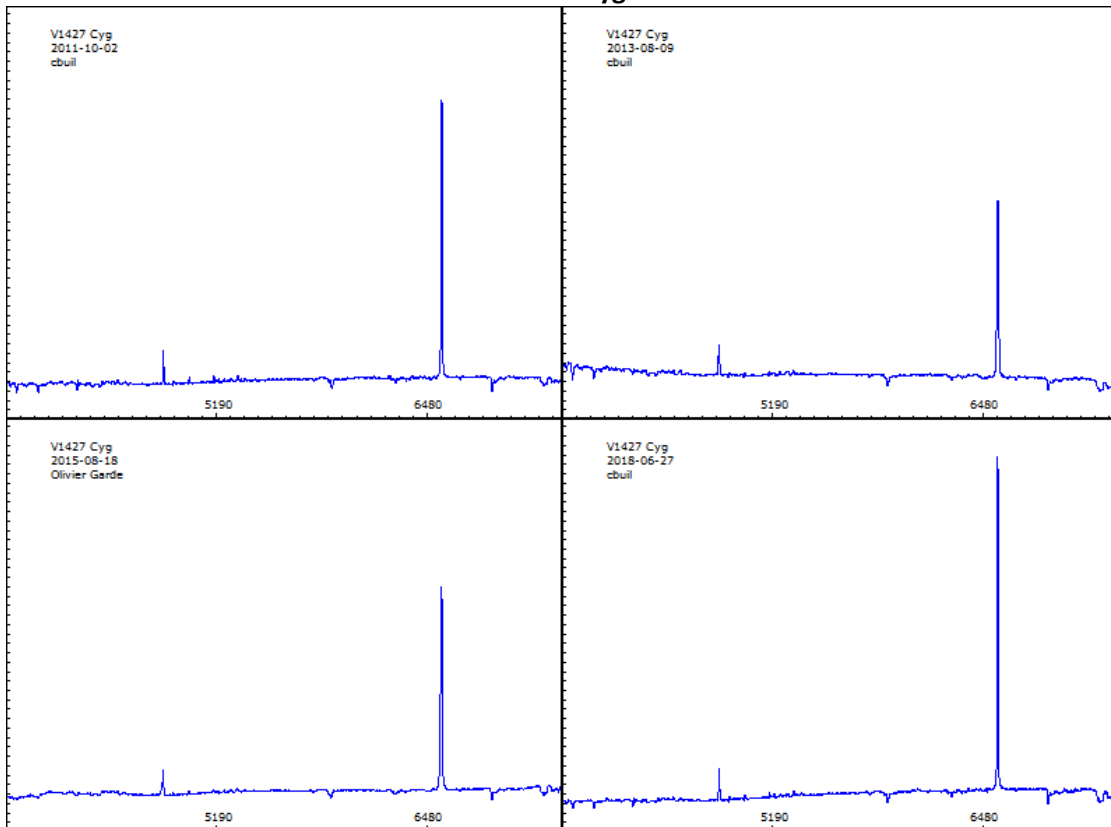
HD 176630



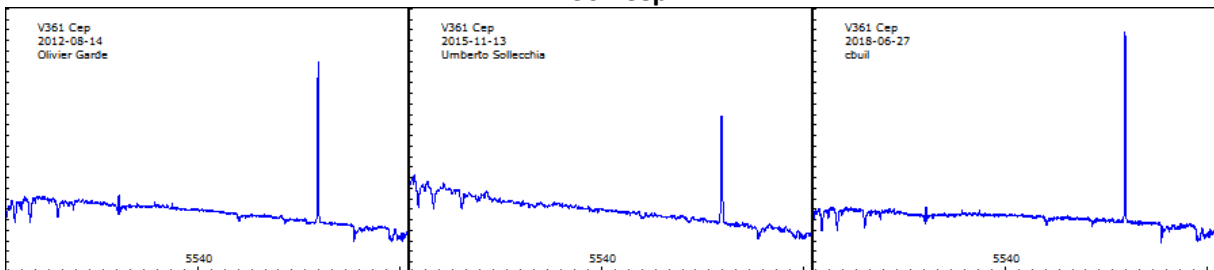
HD 344800



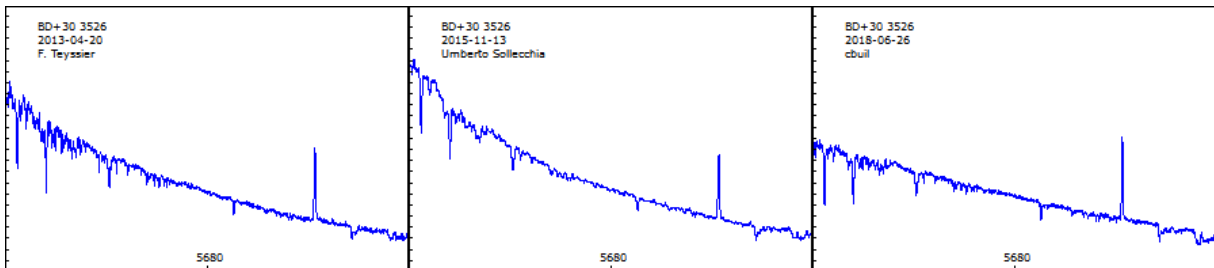
V1427 Cyg



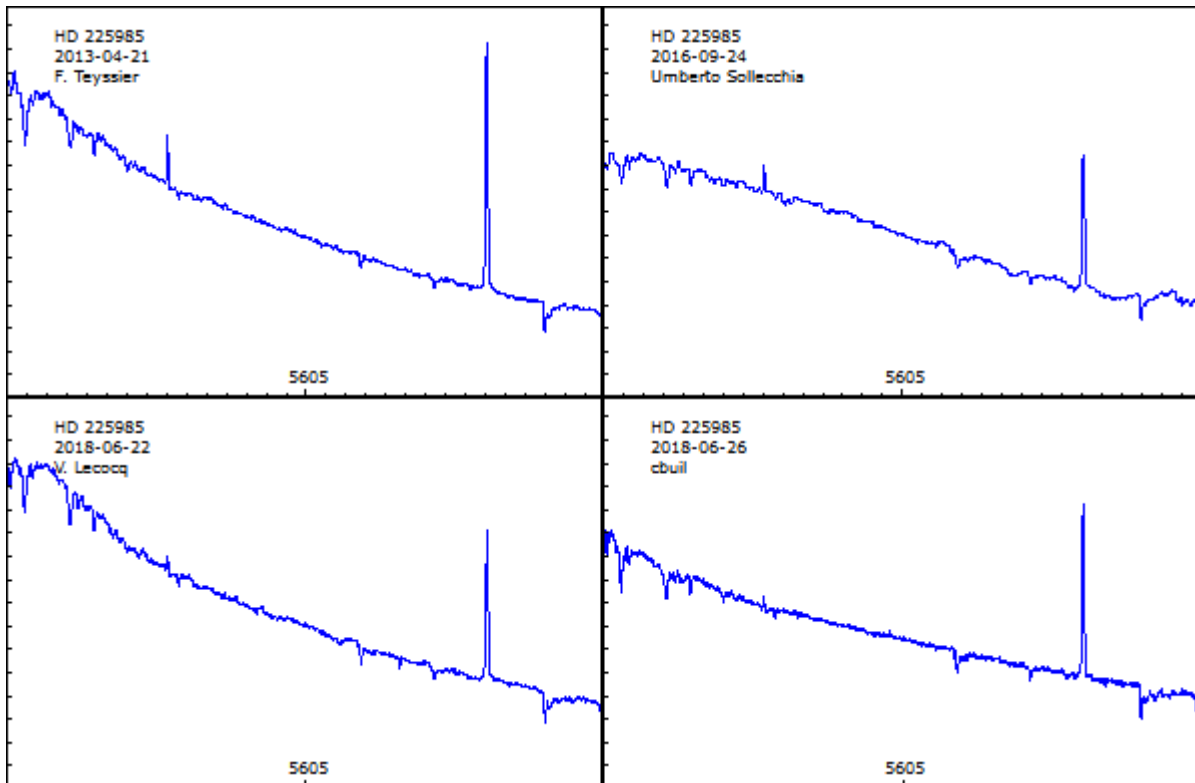
V361 Cep



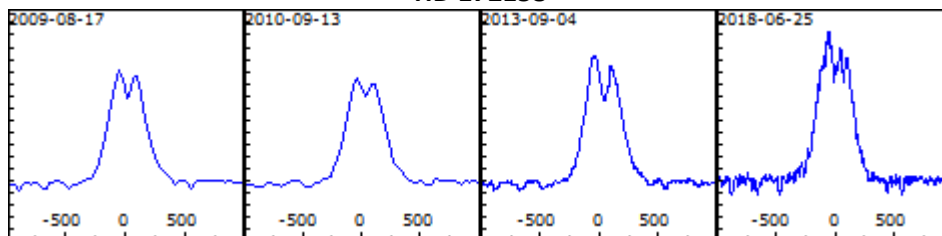
BD+30 3526



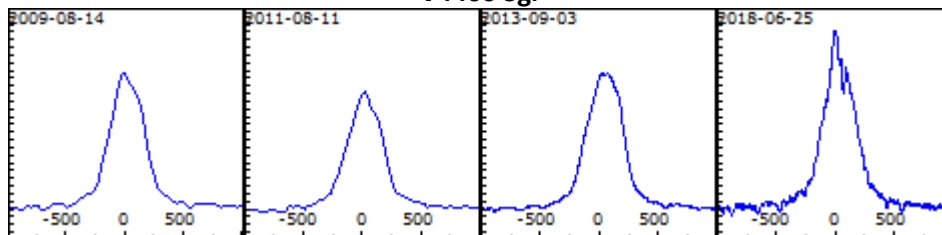
HD 225985



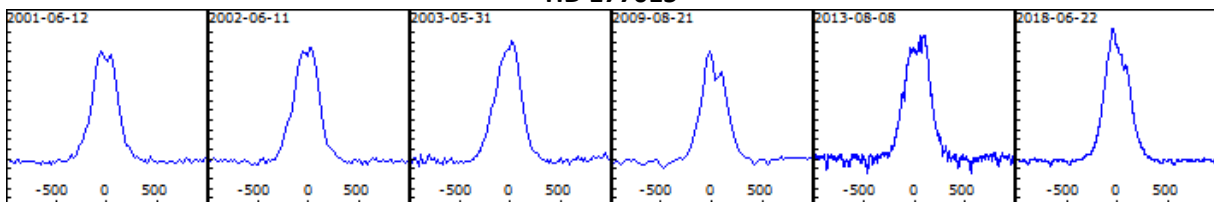
HD 172158



V4400 Sgr

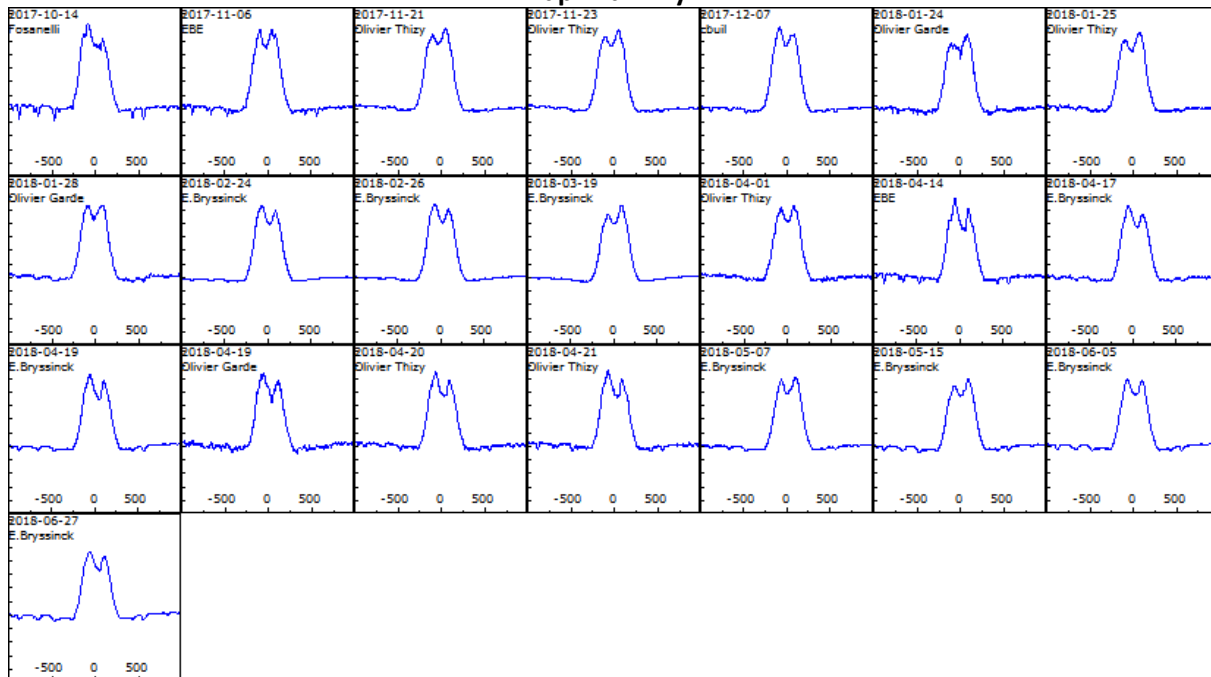


HD 177015

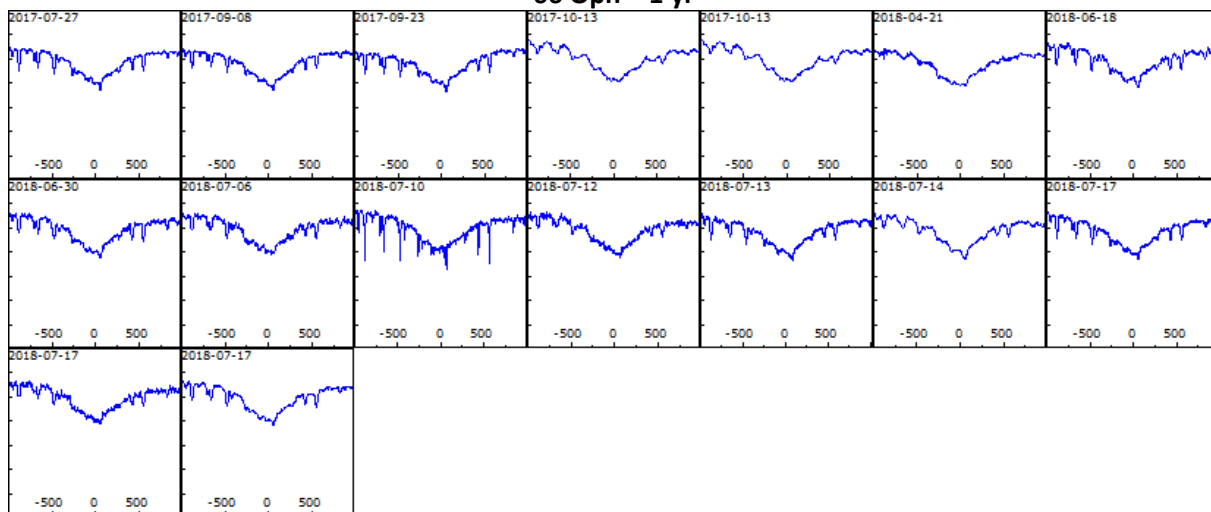


Moderate evolutions of H-alpha line

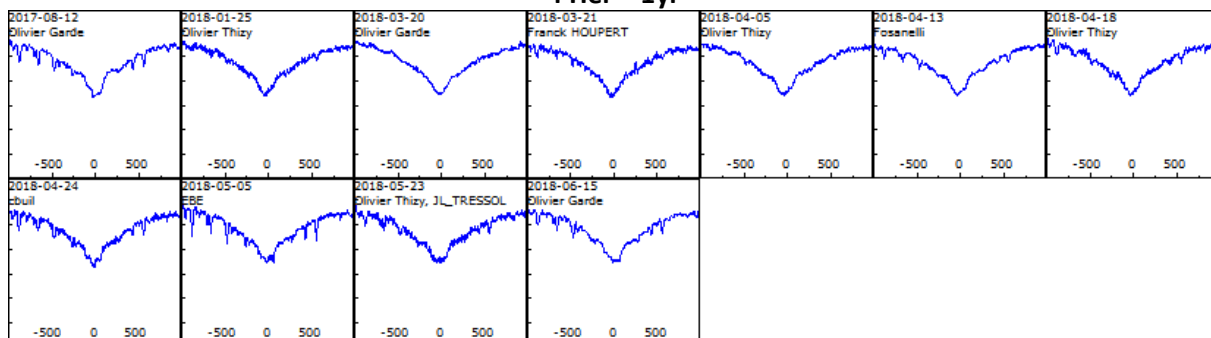
kap Dra – 1 yr



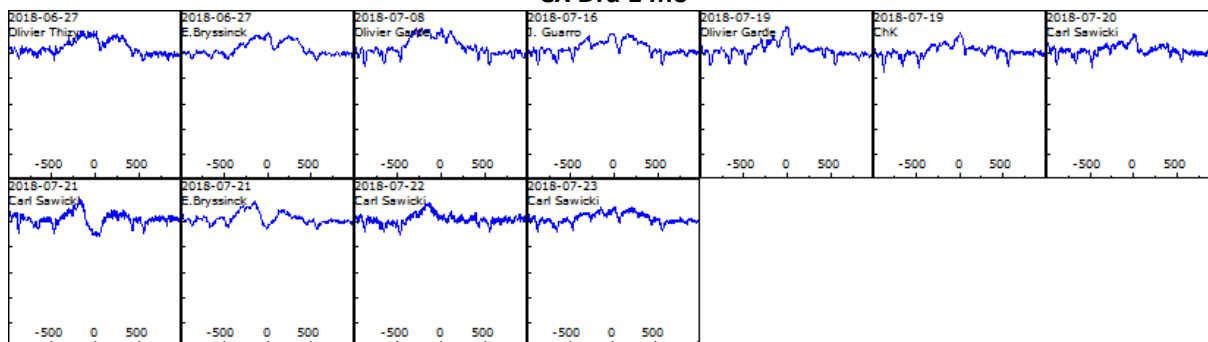
66 Oph – 1 yr



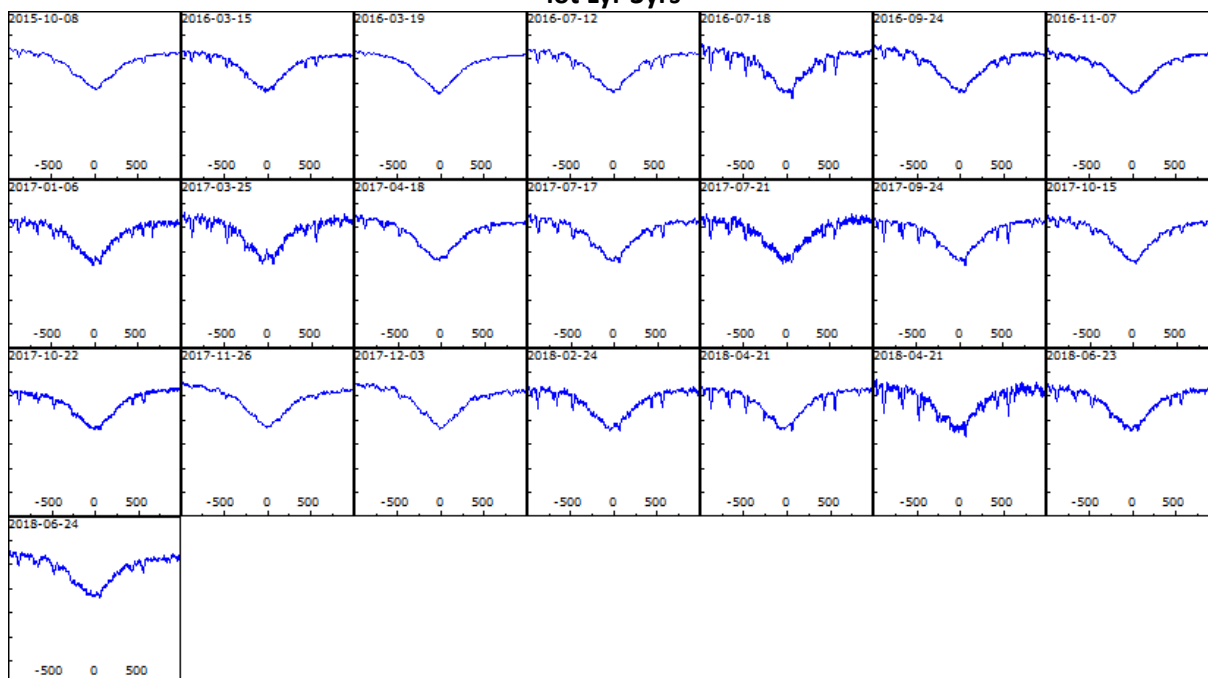
4 Her – 1yr



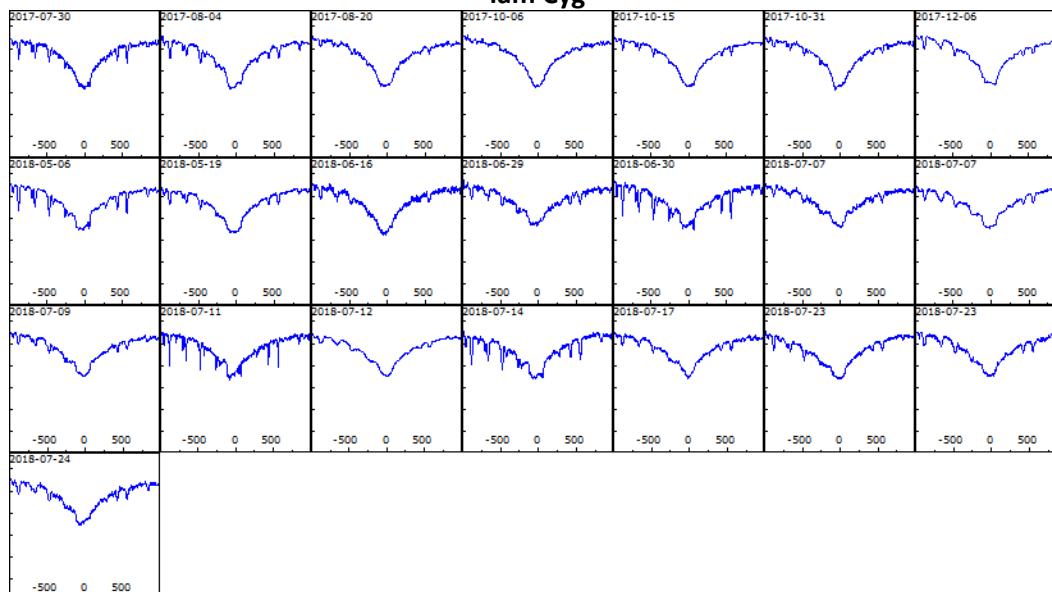
CX Dra 1 mo



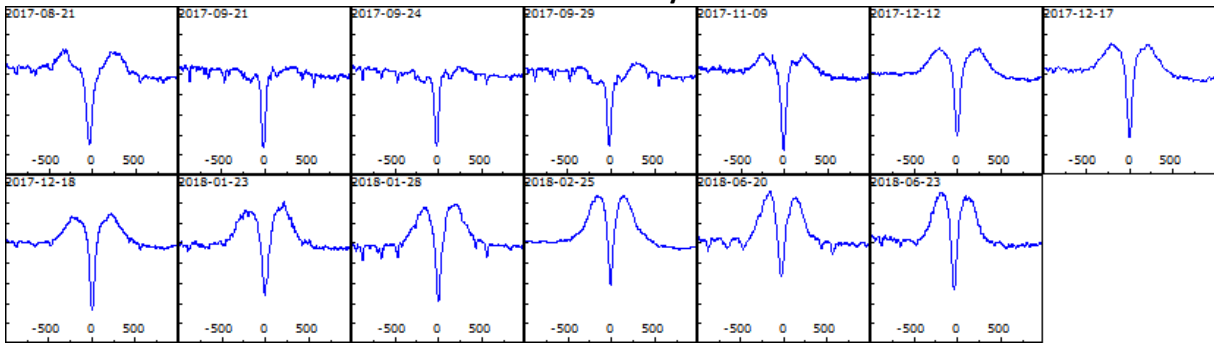
iot Lyr 3yrs



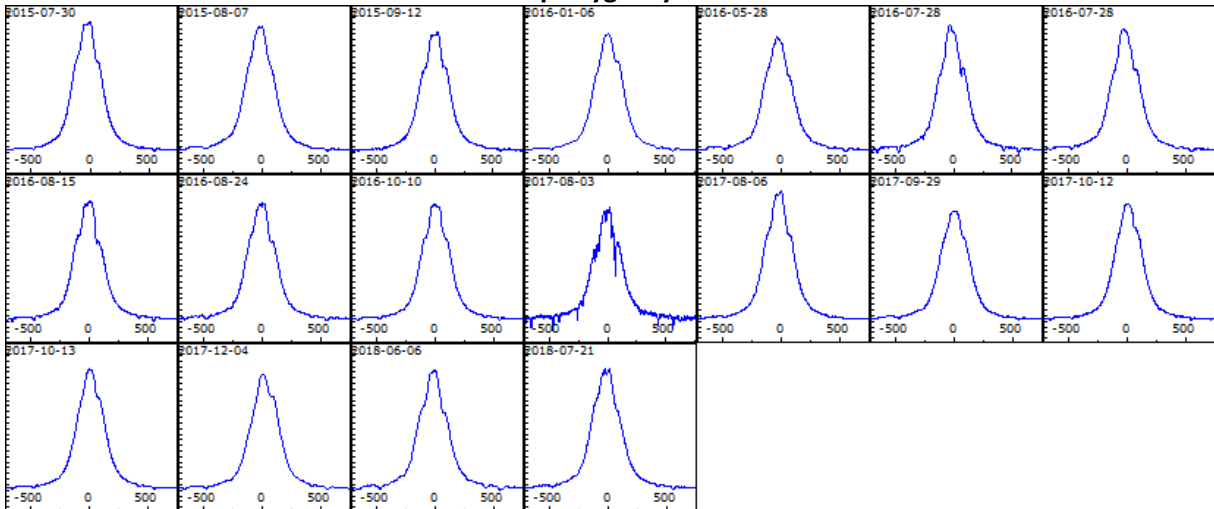
lam Cyg



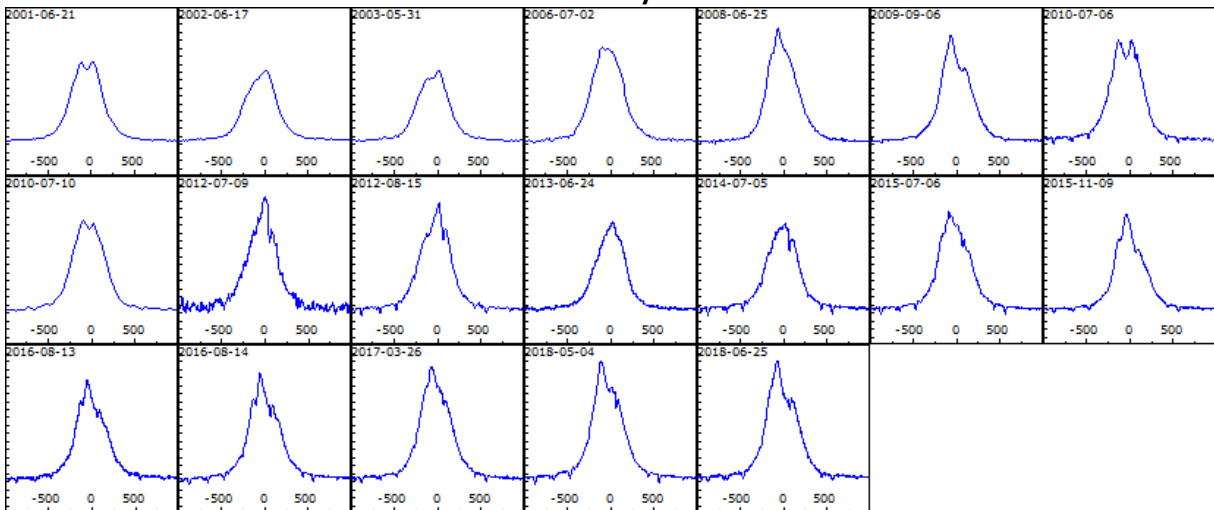
EW Lac – 1 yr



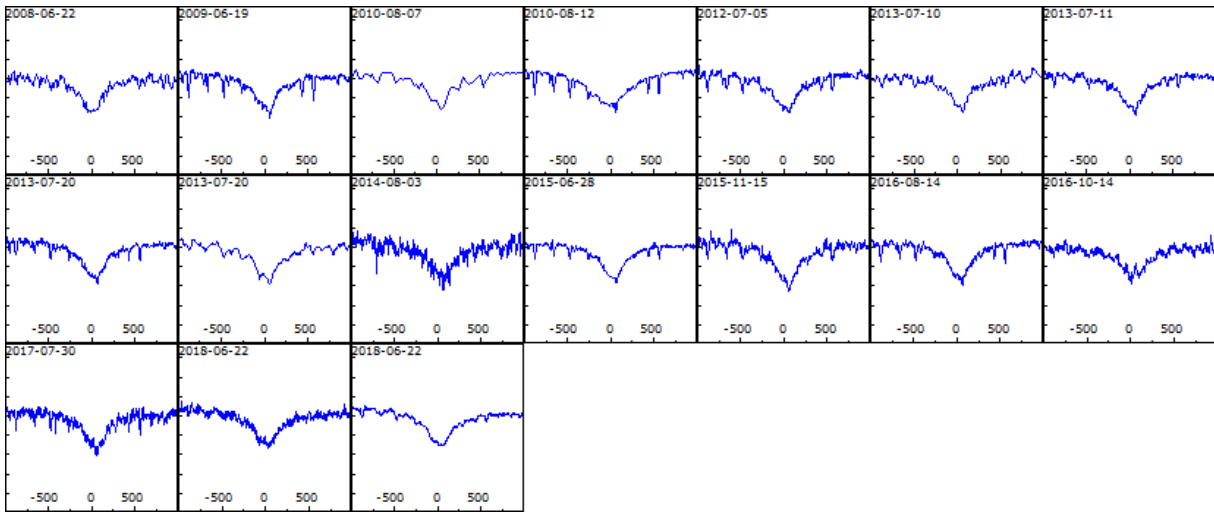
ups Cyg – 3yrs



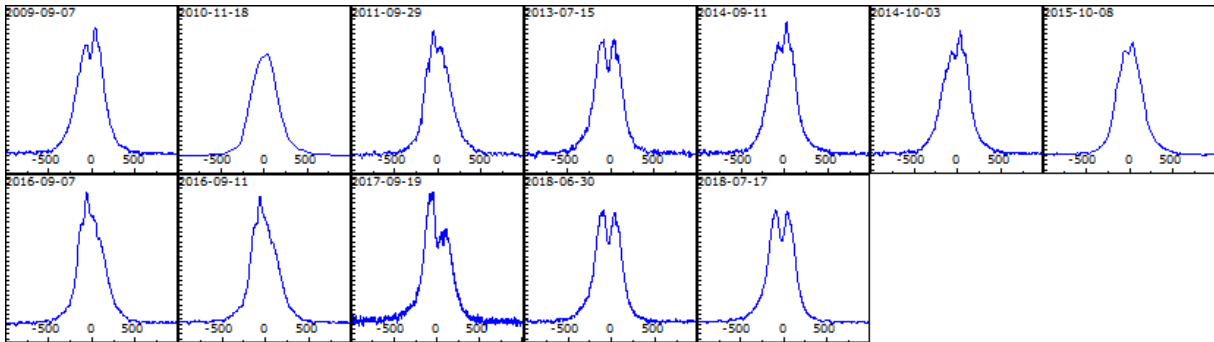
V558 Lyr



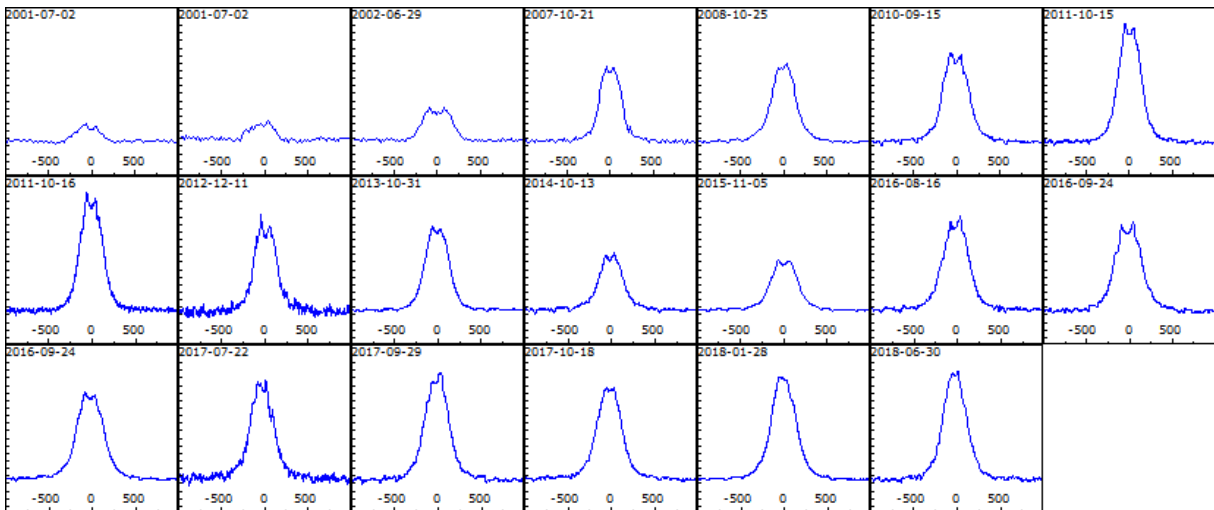
HD 181409



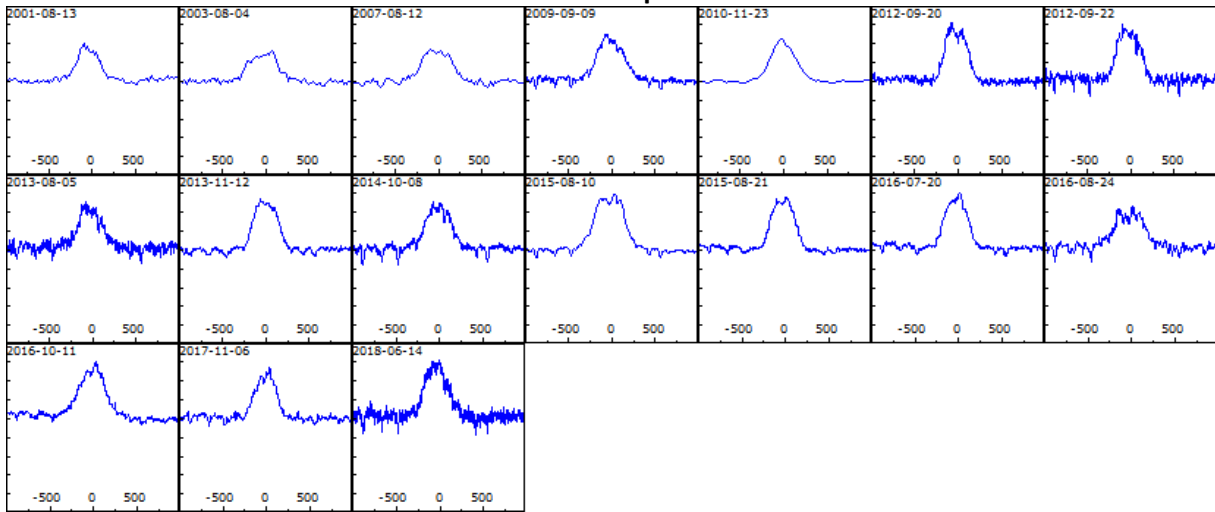
V423 Lac



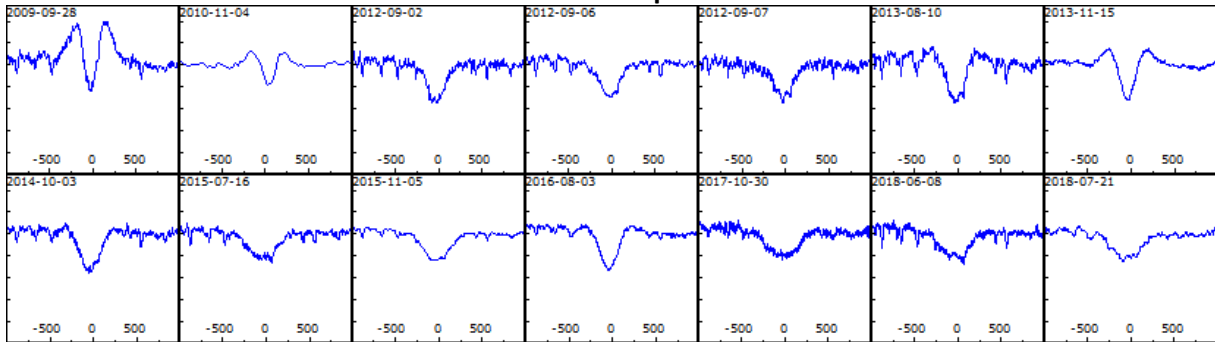
V357 Lac



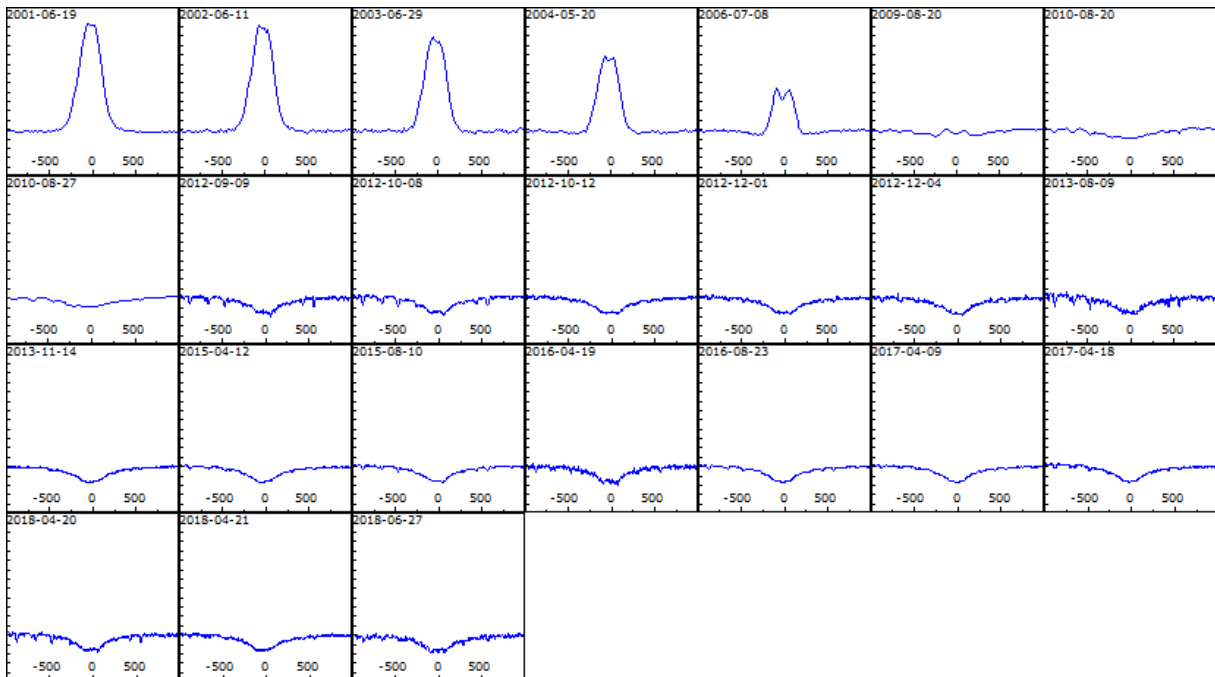
CW Cep



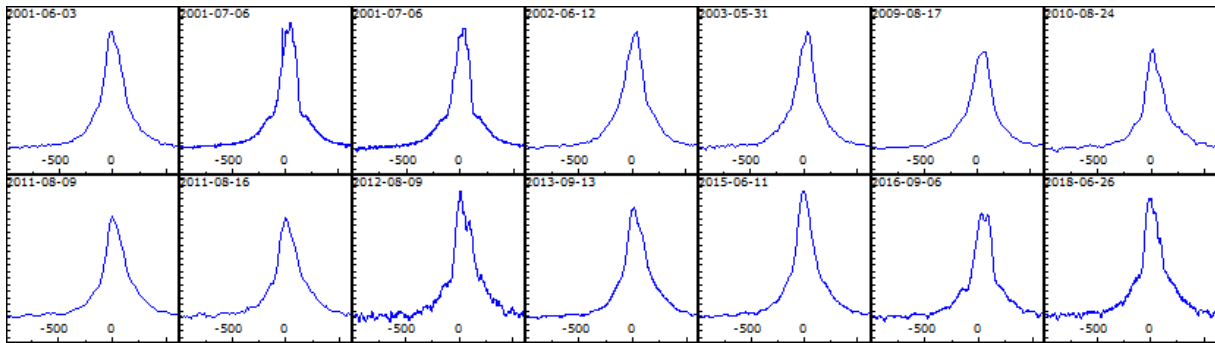
V439 Cep



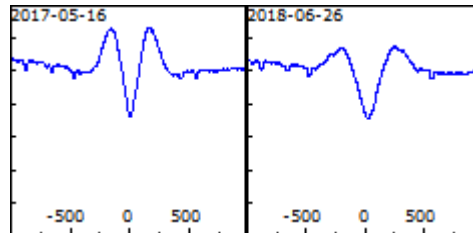
HD 175863



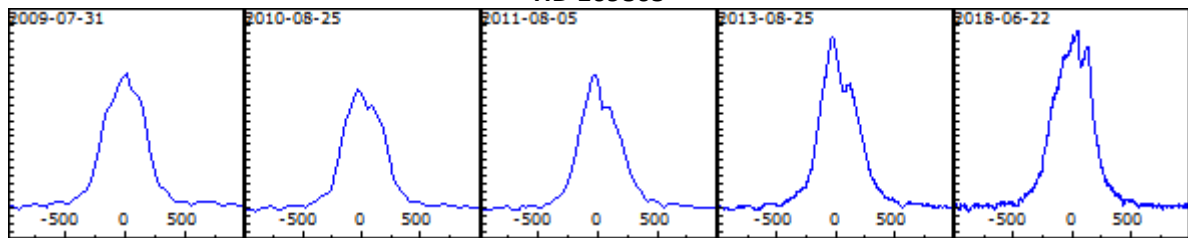
V447 Sct



eta Cen

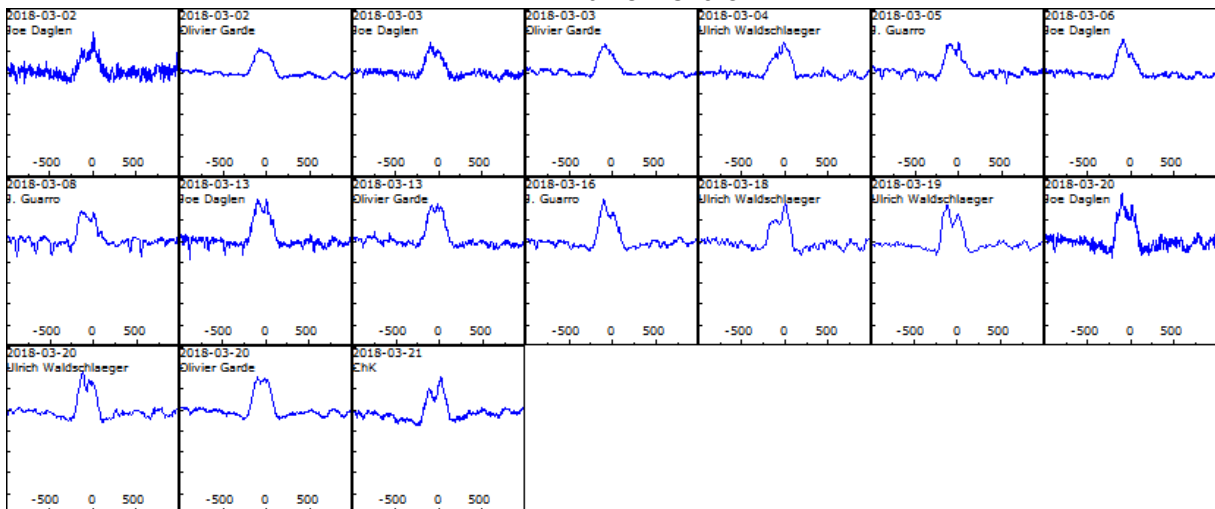


HD 169805

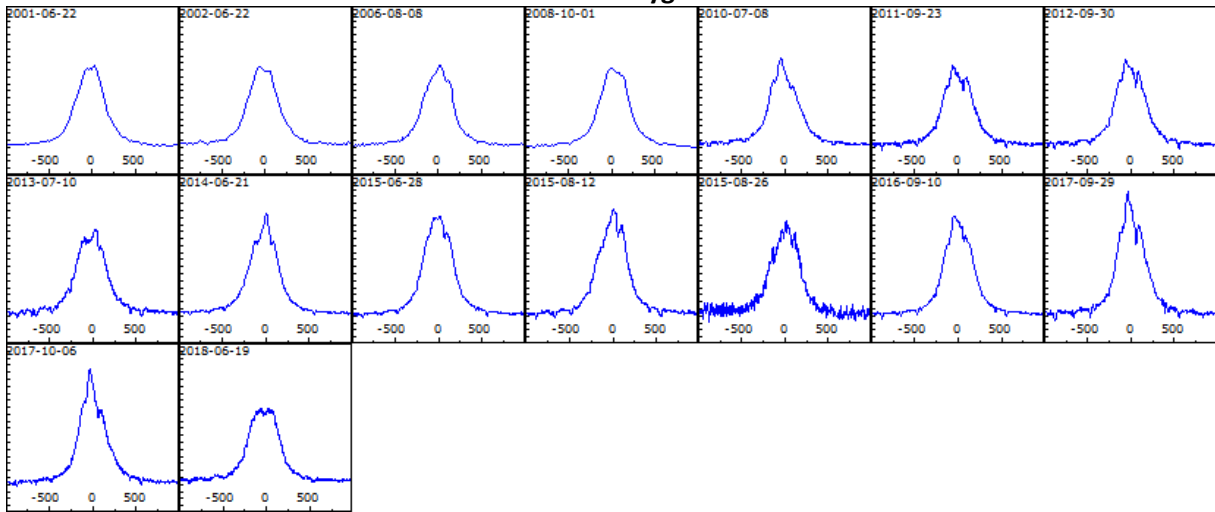


Emission decrease of H-alpha line

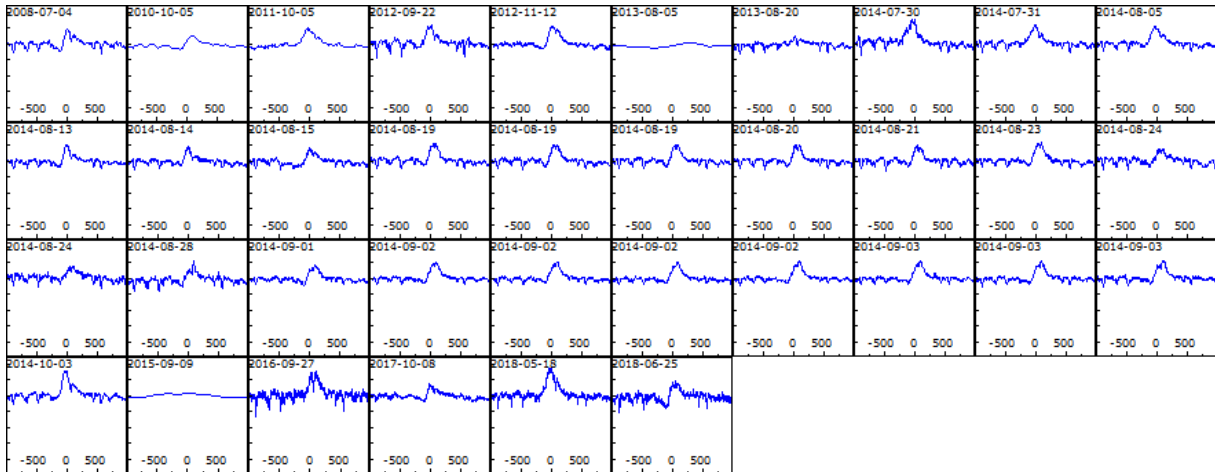
V442 And - 6 months



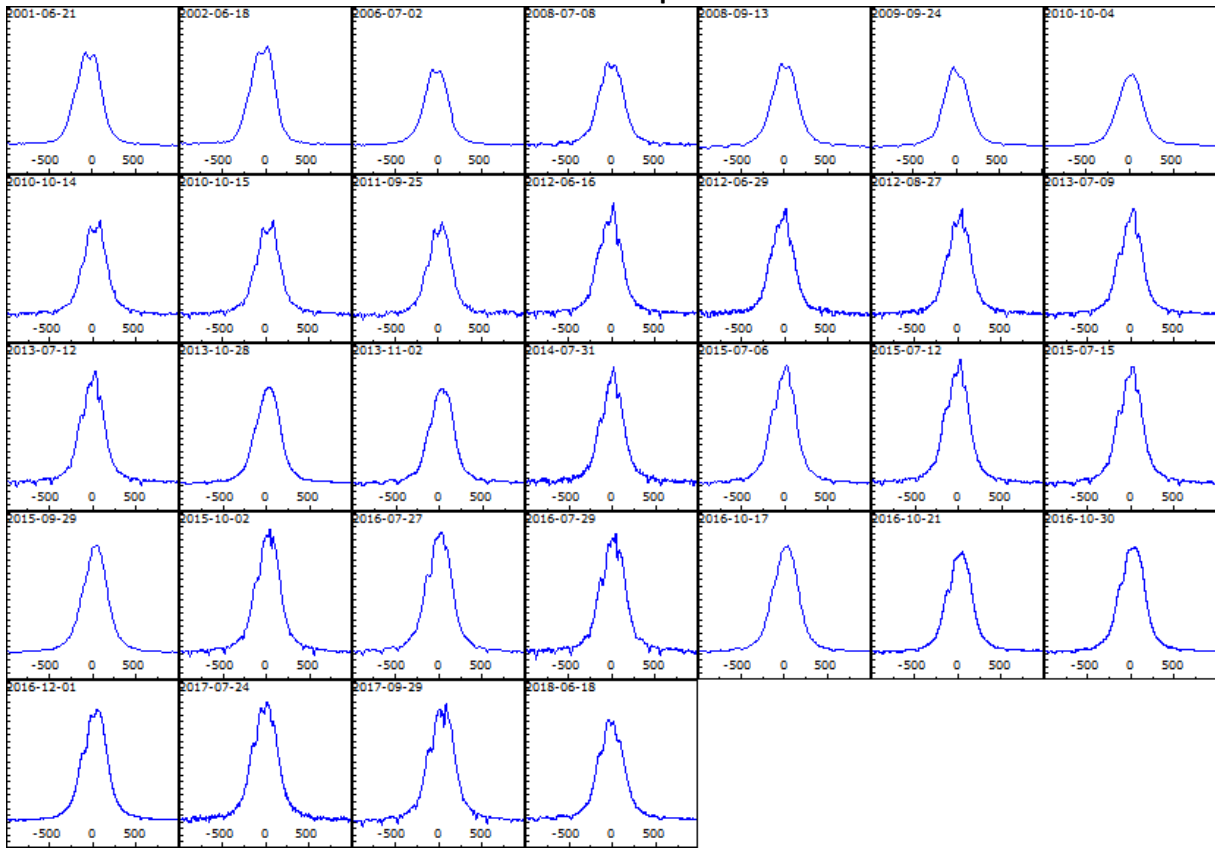
V2113 Cyg



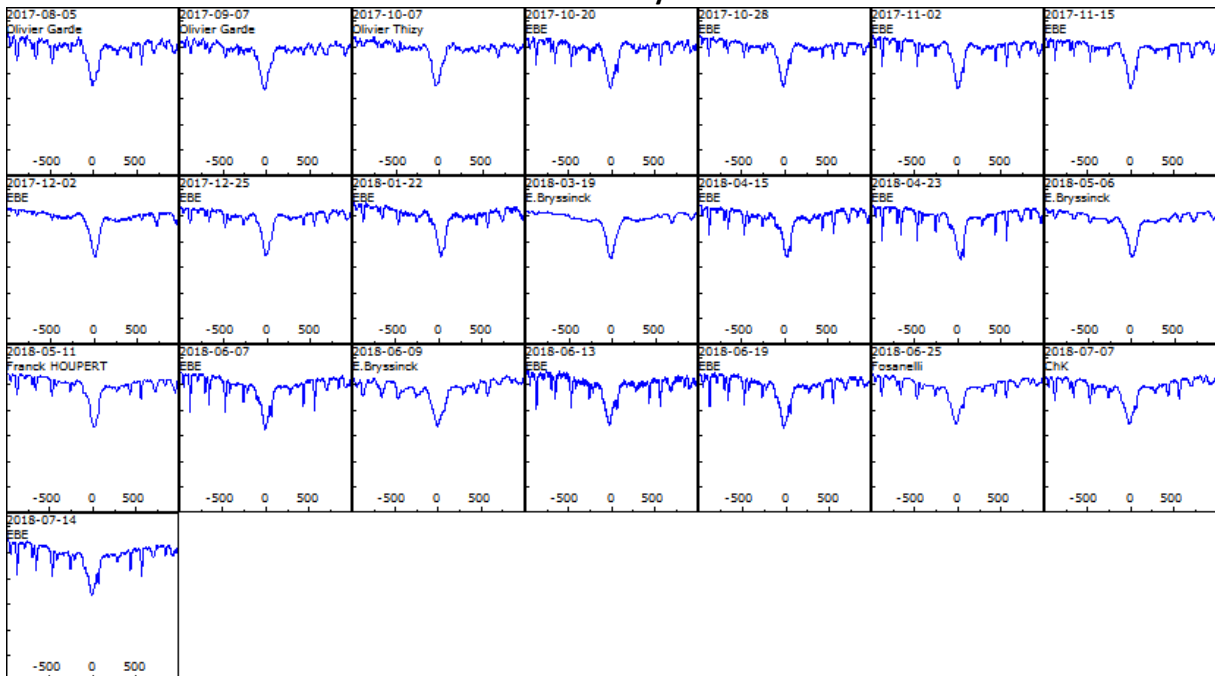
HD 194057



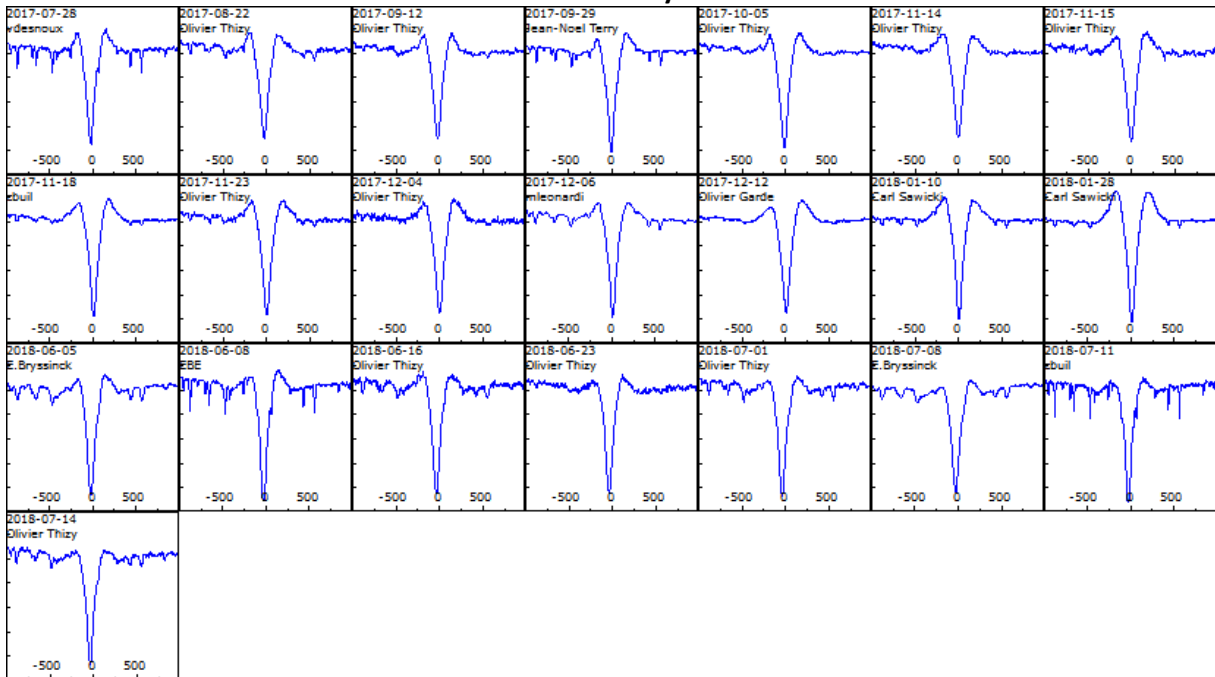
V1339 Aql



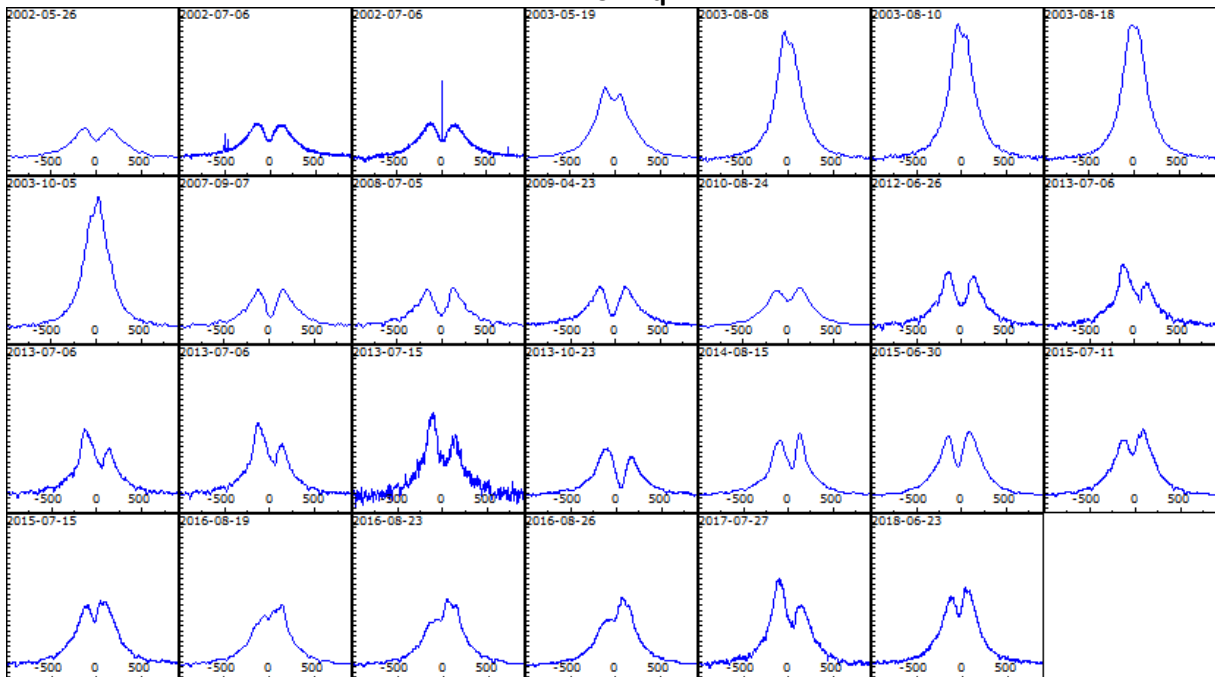
ALFIRK 1yr



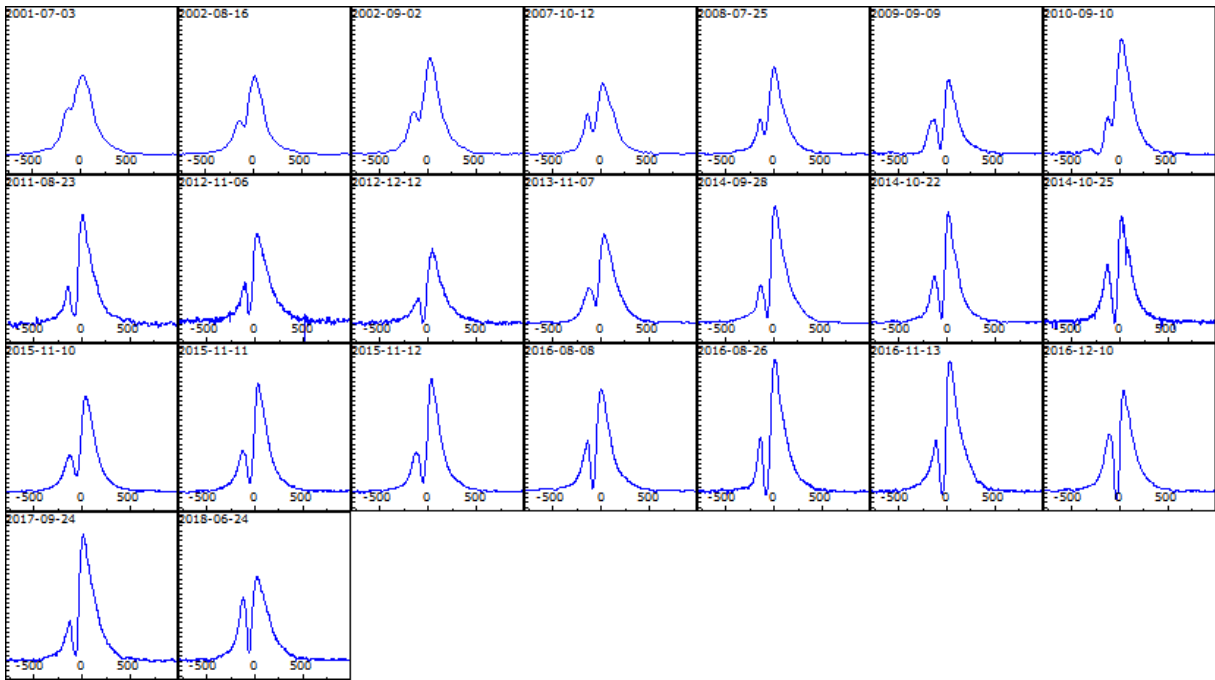
omi And 1yr



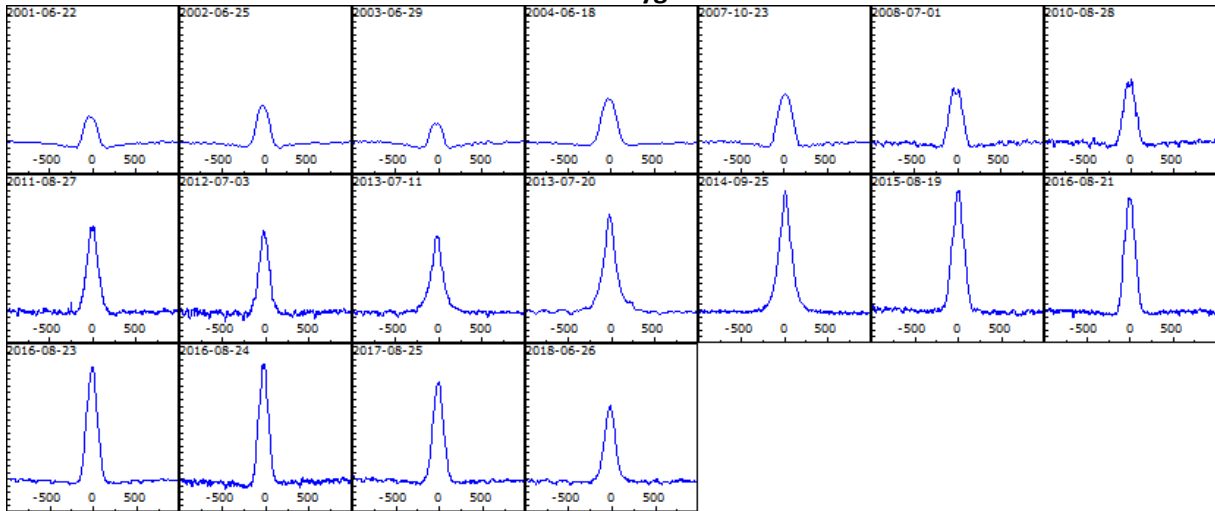
V1294 Aql



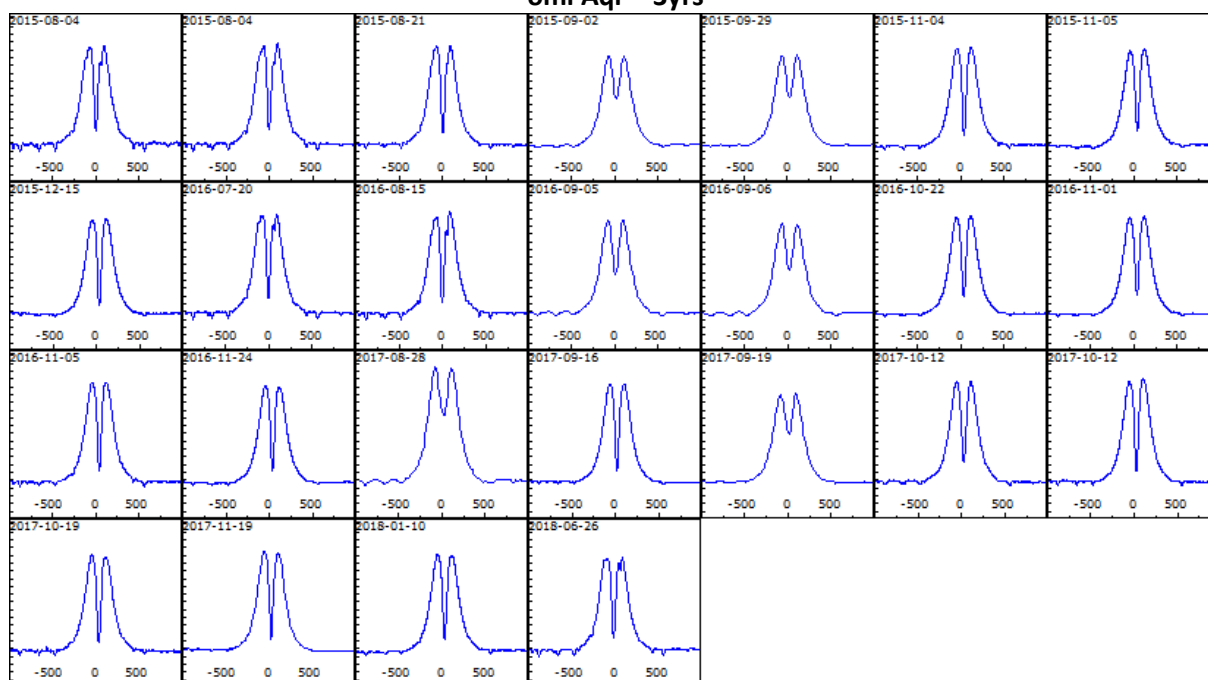
KX And



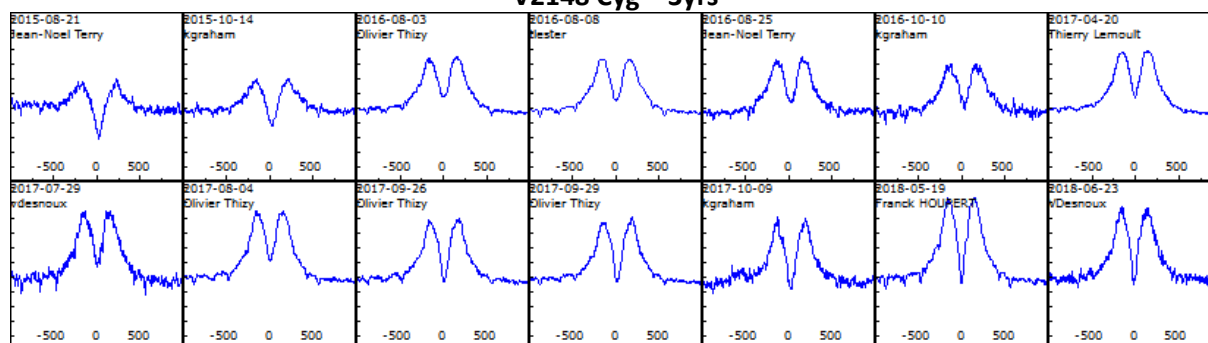
V568 Cyg



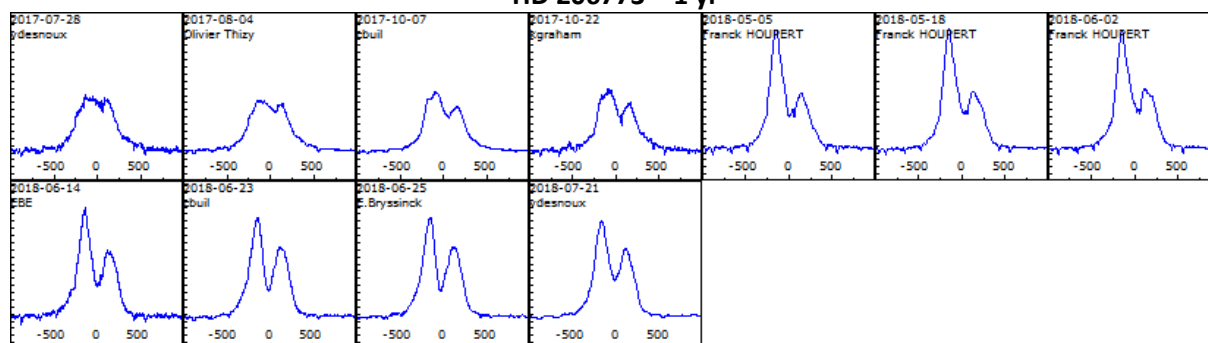
omi Aqr – 3yrs



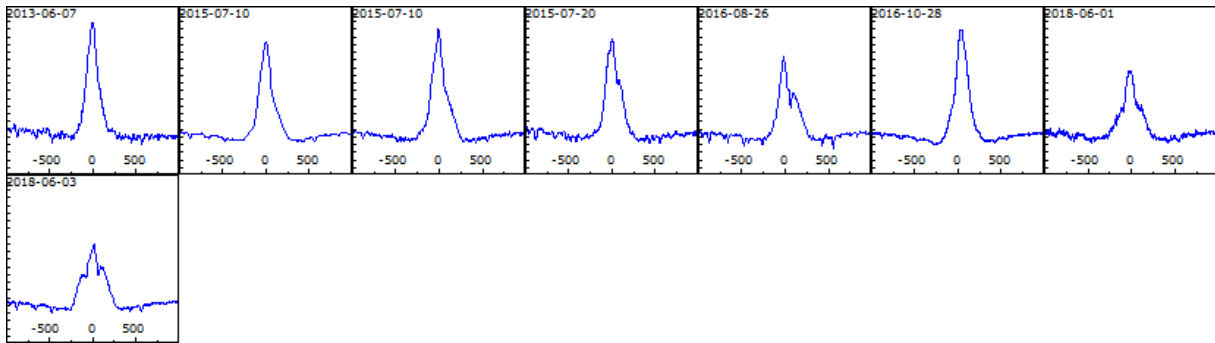
V2148 Cyg – 3yrs



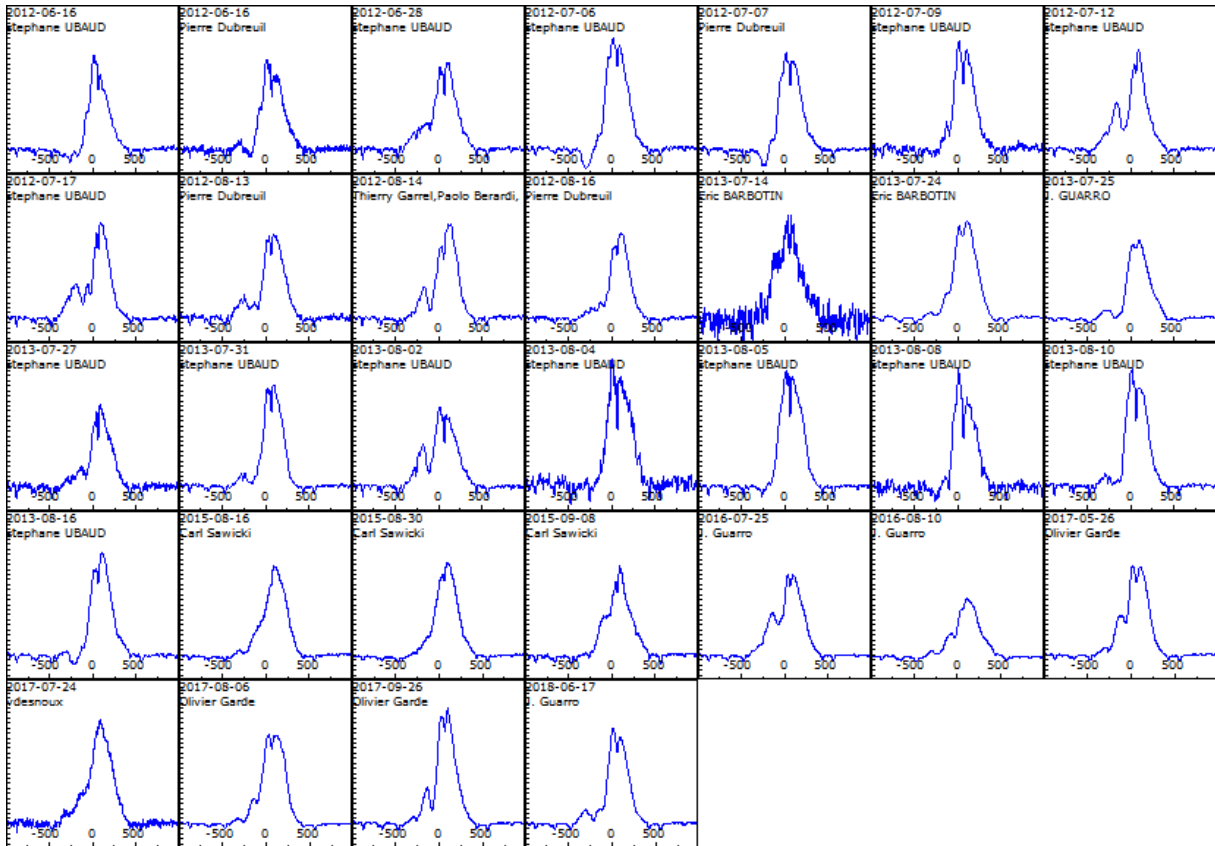
HD 206773 – 1 yr



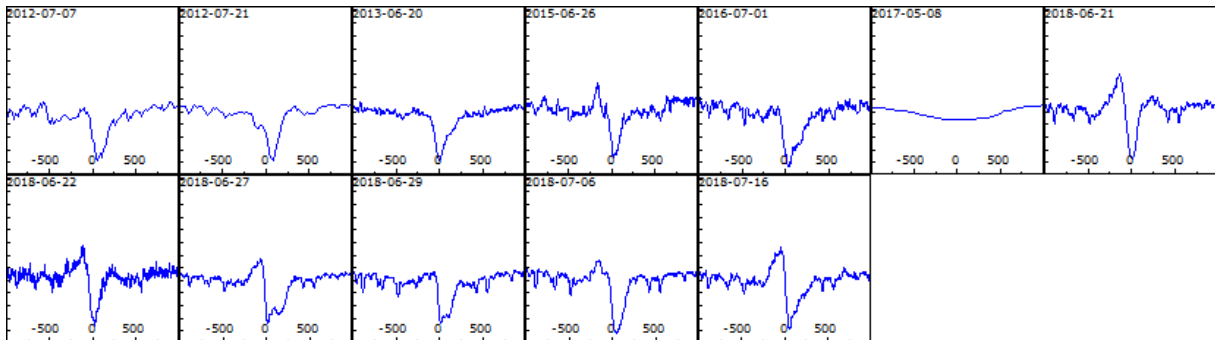
HD 179218



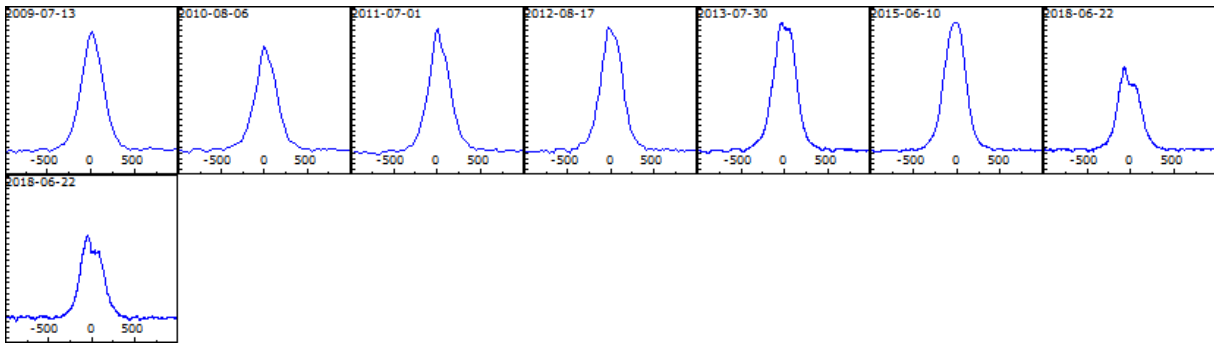
HD 163296



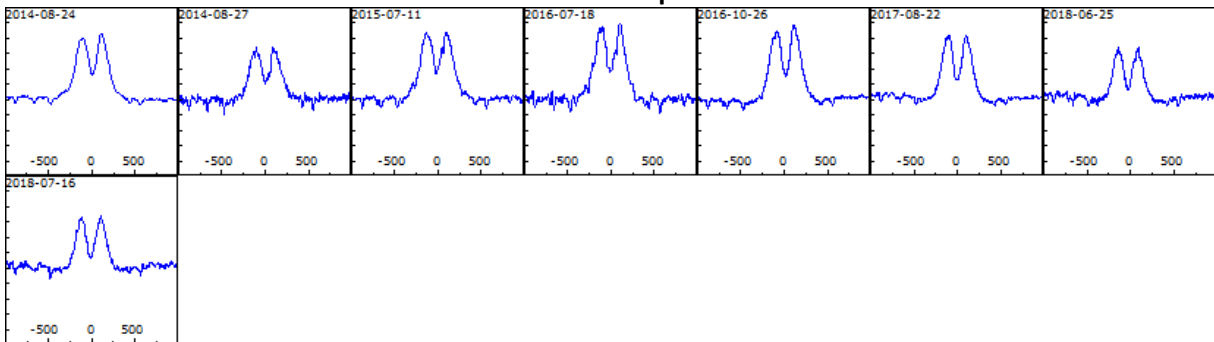
V718 Sco



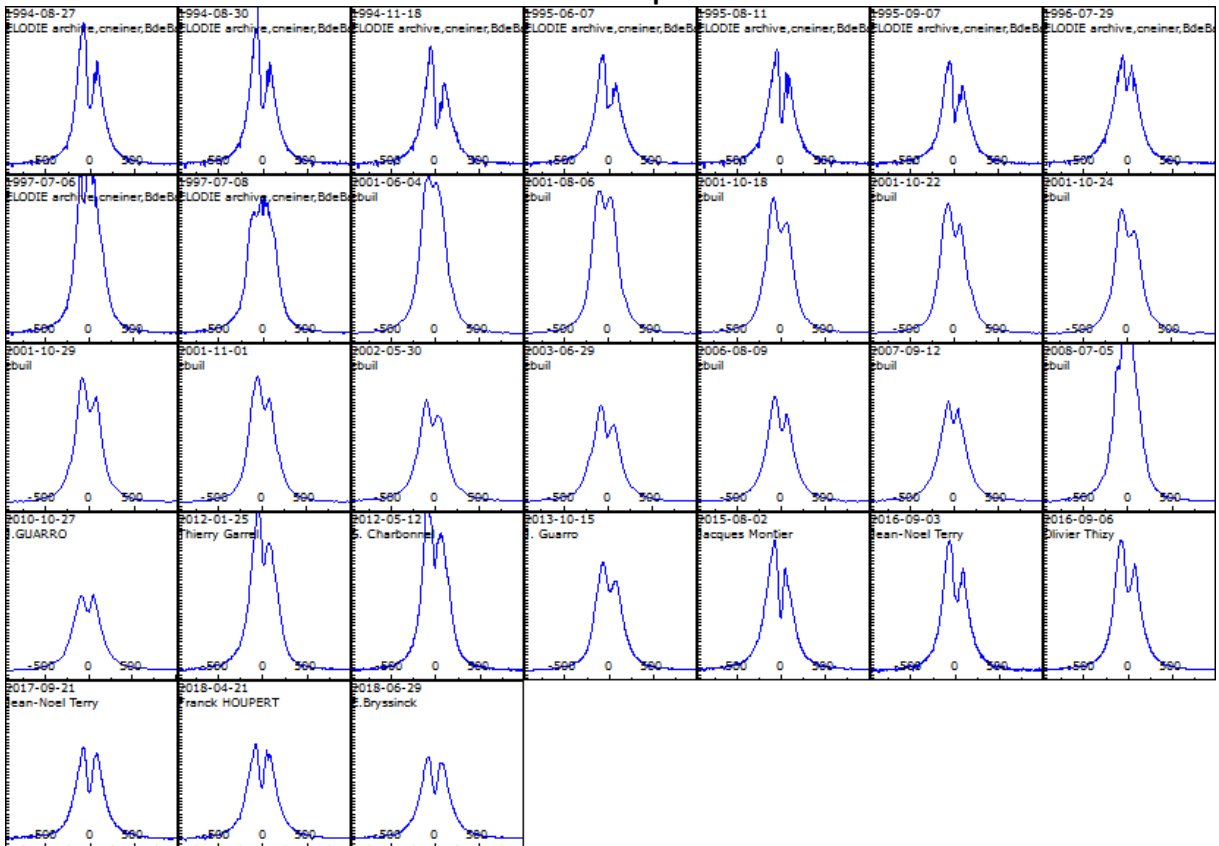
HD 161306

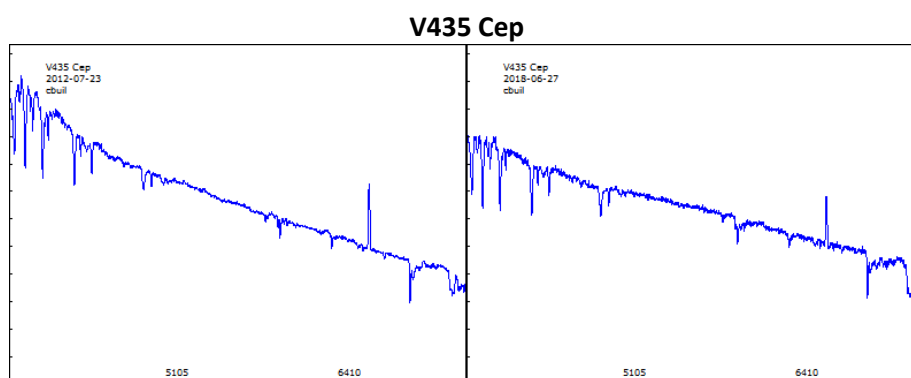
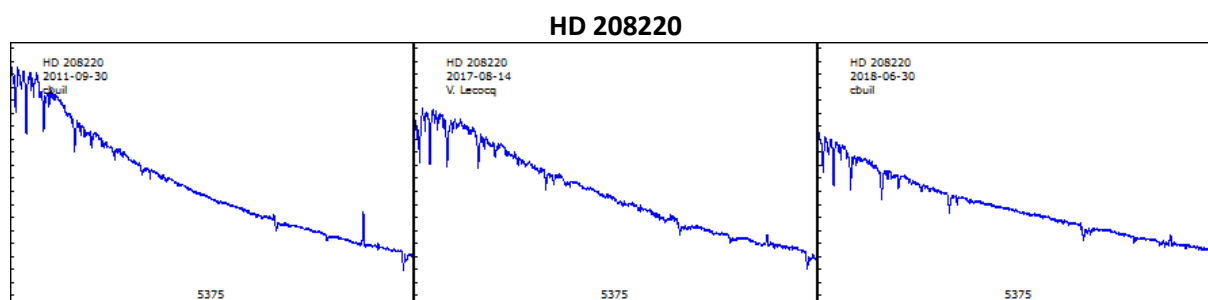
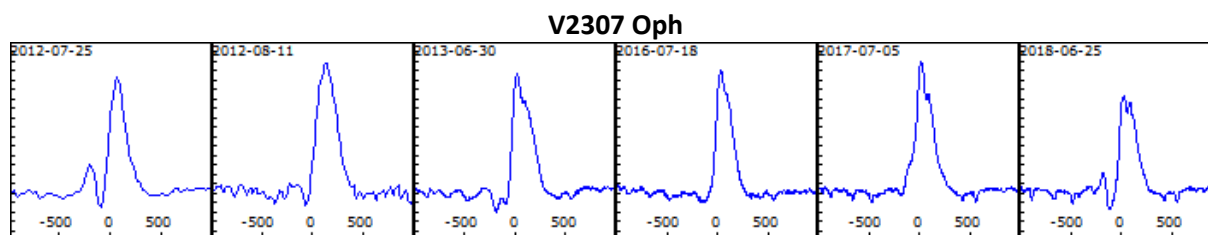


V1466 Aql



V380 Cep





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.

Author

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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/>