

BeSS report – October 2017

Data compiled by Valérie Desnoux – H-alpha monitoring

- 134 stars were observed
- 19 Observers contributed this month
- 300 Spectra

Observers...

Observateur	Nb spec
Thizy	127
Buil	32
HOUPERT	22
bertrand	20
Sawicki	19
GARDE	19
TERRY	16
Fosanelli	9
Guarro Fló	9
Desnoux	7
Leonardi	6
Lecocq	3
Bohlsen	3
Luckas	2
Graham	2
Lester	1
Nougayrede	1
Stiewing	1
Lemoult	1

Events of the month...

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

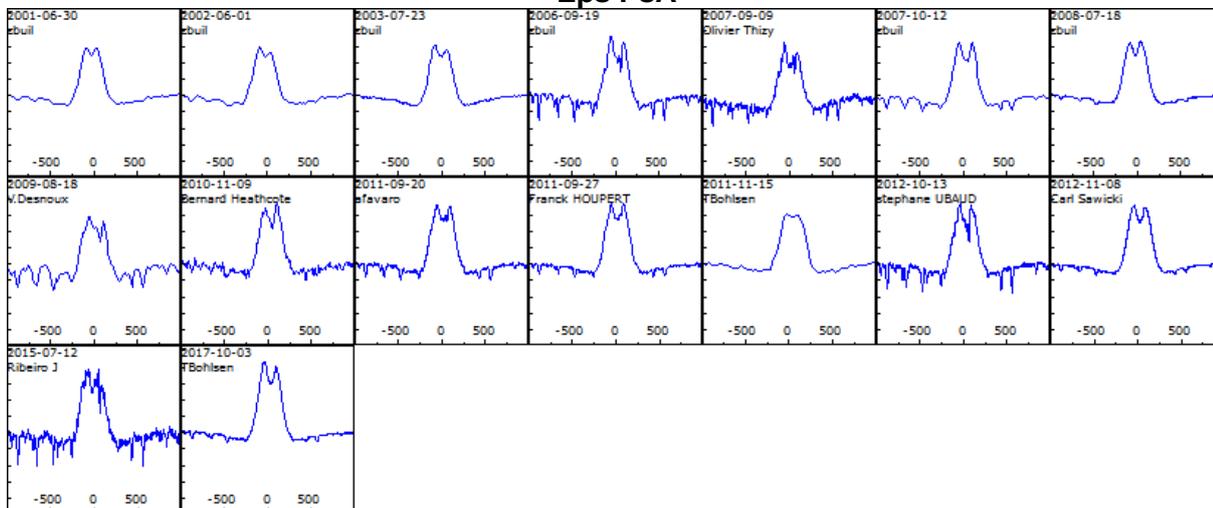
EE	ME	DE	EE	ME	DE
OT Gem	V442 And	V1165 Tau	B2Ve	B2IVe	B1Vpe
HD 45995	QR Vul	kap Dra	B2Vnne	B3Ve	B6IIIpe
V532 Lyr	59 Cyg	CX Dra	B4Ve	B1.5Vnne	B2.5Ve
V764 Cas	14 Lac	V2113 Cyg	B2IIIe	B3IVe	B1Vnnpe
FR CMa	ups Cyg	HD 194057	B1Vpe	B2Vne	B1Ile
HD 206773	25 Ori	HD 195407	B0Vpe	B1Vpe	B0IVpe
HD 20340	bet Psc	HD 31648	B3Ve	B6Ve	A3Ve
V2162 Cyg	V2153 Cyg	V341 Sge	B2Vnne	B1Vne	B2.5Ve
V1374 Ori	V396 Vul	HD 9709	B8e	B2Vnne	B9e
eps PsA	V1150 Tau	V357 Lac	B8Ve	B2.5Vne	B1Vnnpev
HD 35345	HD 50820	HD 205060	B1Vpe	B3IVe	B5e
HD 57682	V2144 Cyg	HD 44996	O9Ve	B5Ve	B6.5Ve
HD 34257	HD 42406	V413 Aur	B5e	B4IVe	B1Ve
	105 Tau	V439 Cep		B2Ve	B1Ve
	Pi Aqr	V763 Mon		B1Ve	B5e
		V586 Per			B2e
		HD 49787			B1Ve

Objects observed

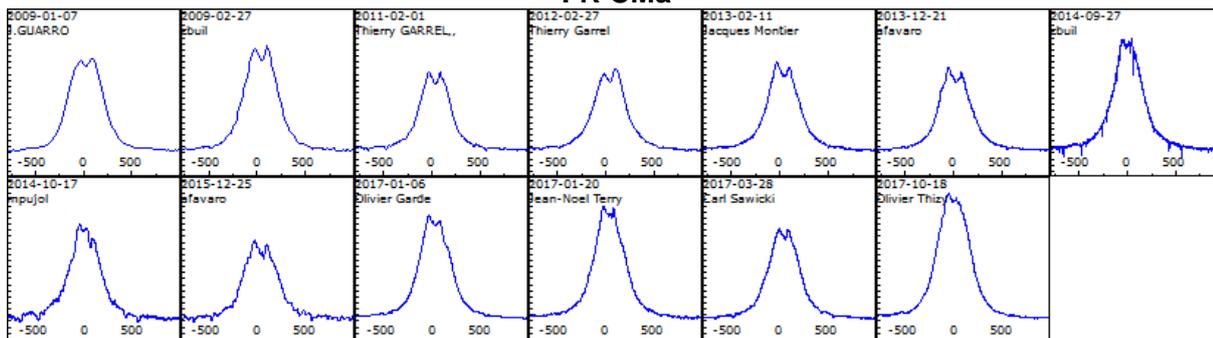
Classique							?	Herbig
gam Cas	66 Oph	HD 194057	60 Cyg	MEROPE	11 Cam	V447 Aur	HD 20566	HD 31648
zet Tau	omi Her	V378 And	16 Peg	V782 Cas	HD 6343	V1372 Ori		AB Aur
PLEIONE	V532 Lyr	lam Cyg	V2155 Cyg	HD 2789	eta Ori	69 Ori		XY Per
V442 And	53 Boo	pi Aqr	V813 Cas	HD 31648	2 Cet	V715 Mon		
OT Gem	zet Oph	ALFIRK	omi Cas	HD 9612	V1150 Tau	V420 Aur		
5 Cnc	HD 168957	14 Lac	V764 Cas	V818 Cas	HD 21650	V763 Mon		
tet CrB	V974 Her	V2136 Cyg	FR CMa	V2153 Cyg	HD 50820	HD 27846		
bet CMi	CX Dra	ups Cyg	25 Ori	V341 Sge	HD 17505	V1374 Ori		
ome Ori	HD 171780	psi Per	105 Tau	V396 Vul	HD 20340	HD 29035		
nu Gem	phi And	omi And	48 Per	HD 20134	V696 Mon	QY Gem		
V1165 Tau	V2113 Cyg	12 Vul	bet Psc	HD 9709	AX Mon	V448 Sct		
19 Mon	59 Cyg	eps Cas	omi Aqr	V742 Cas	V2162 Cyg	eps PsA		
kap Dra	V923 Aql	HD 195407	lam Eri	HD 206773	12 Aur	HD 203374		
HD 45995	28 Cyg	phi Per	ALCYONE	V2163 Cyg	V357 Lac	V2144 Cyg		
QR Vul	iot Lyr	10 Cas	eps Cap	kap Aql	43 Ori	V404 Lac		
SHELIK	4 Aql	HD 205060	HD 42406	HD 35345	HD 32188	HD 30123		
HD 44996	MZ Aur	V439 Cep	V2123 Cyg	HD 43544	V803 Cas	V584 Per		
V413 Aur	6 Cep	ACHERNAR	V586 Per	HD 57682	HD 49888	HD 259440		
V2172 Cyg	HD 49787	HD 34257	BD+58 277					

Emission increase since last observations

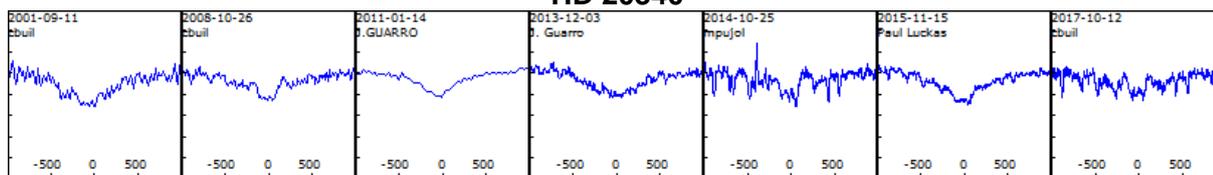
Eps PsA



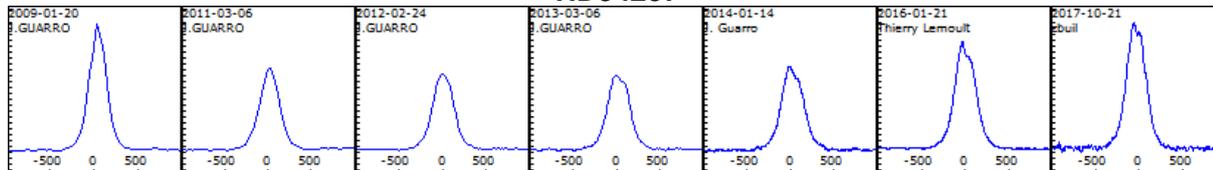
FR CMA



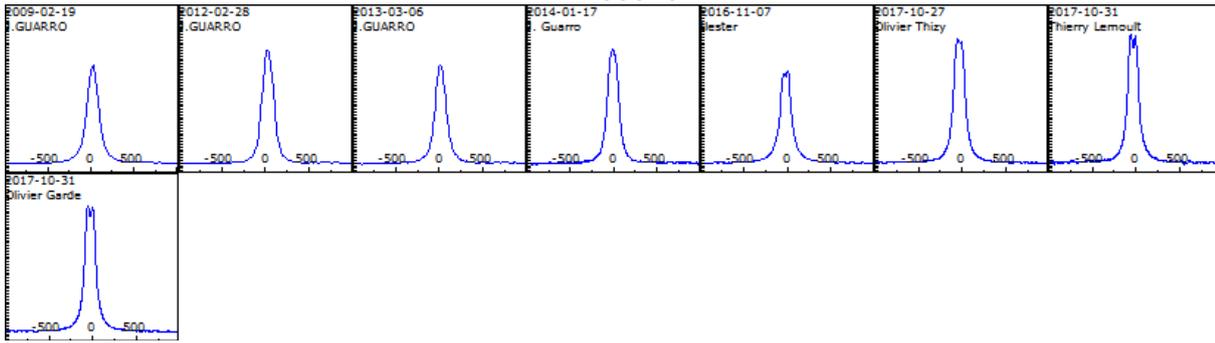
HD 20340



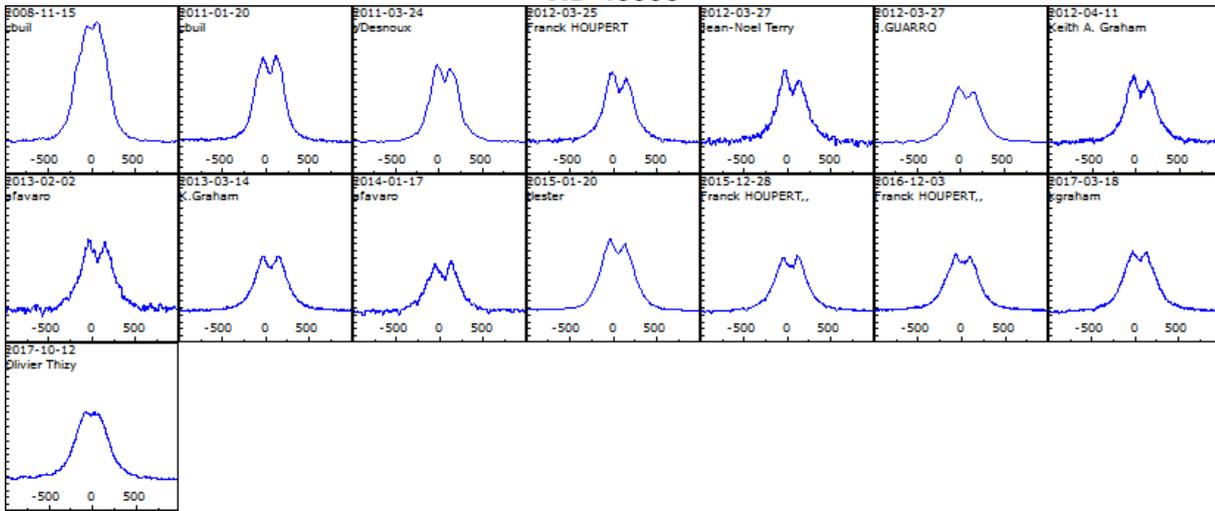
HD34257



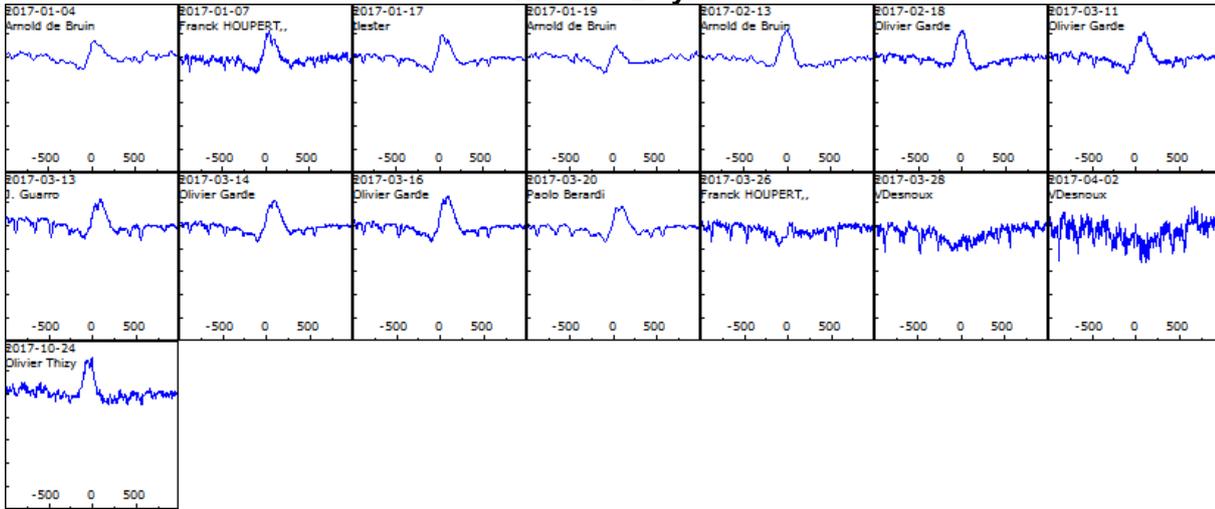
HD 35345



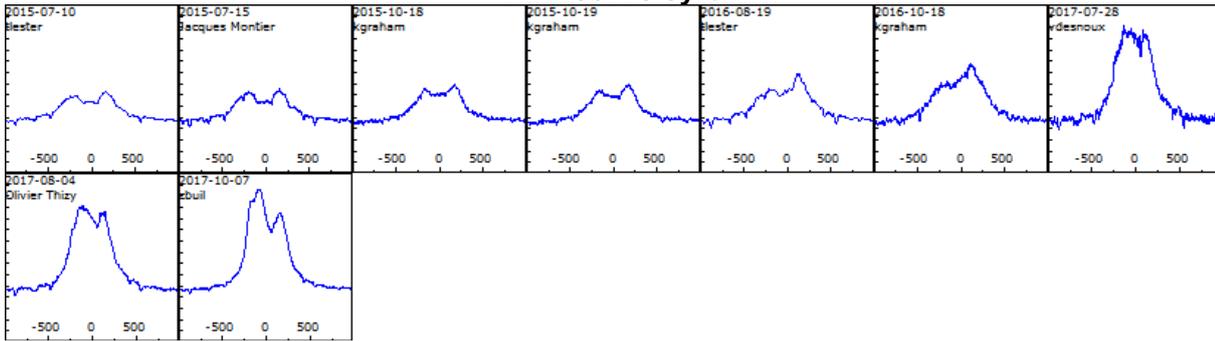
HD 45995



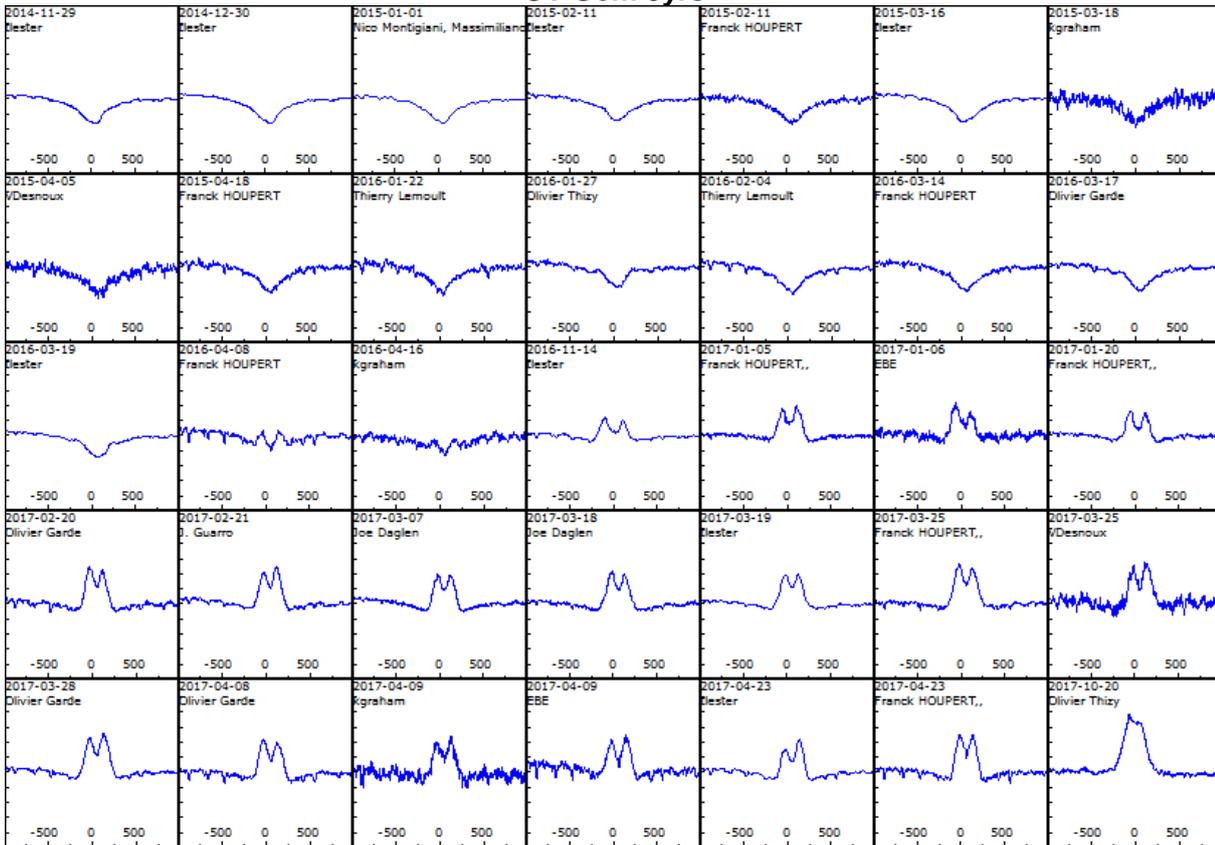
HD 57582 3yrs



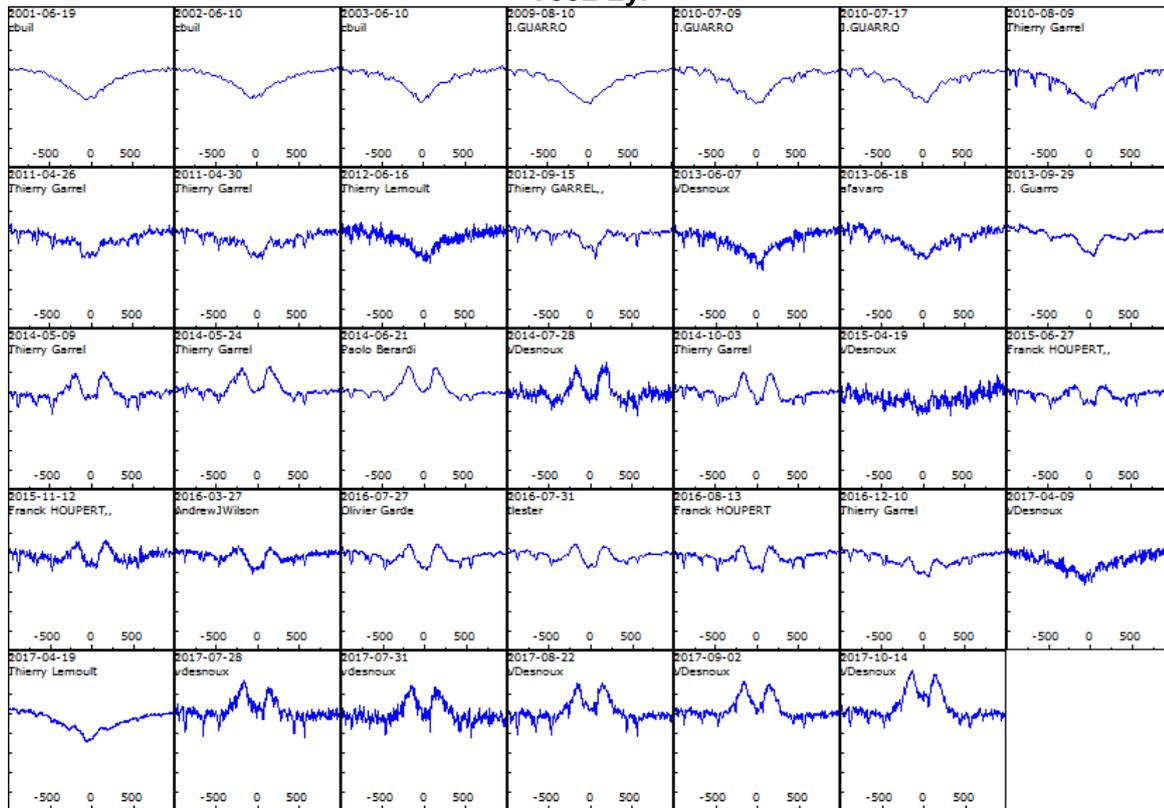
HD 206773 3yrs



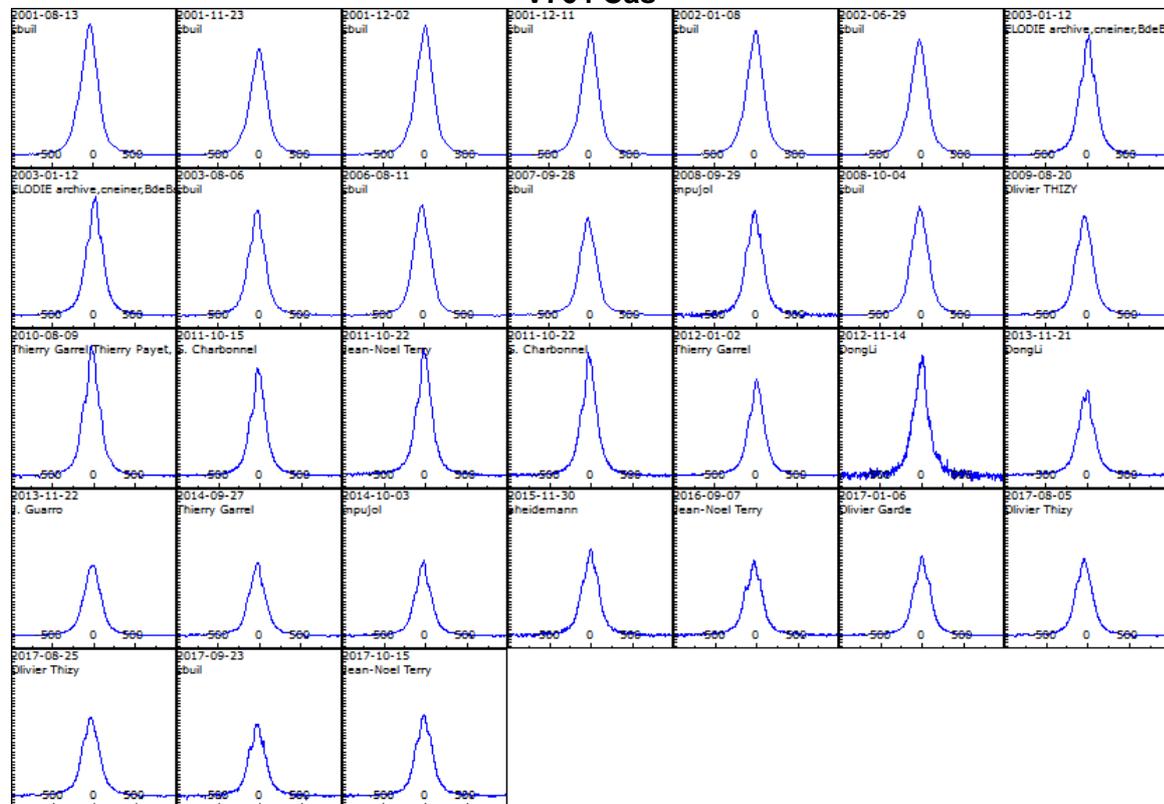
OT Gem 3yrs



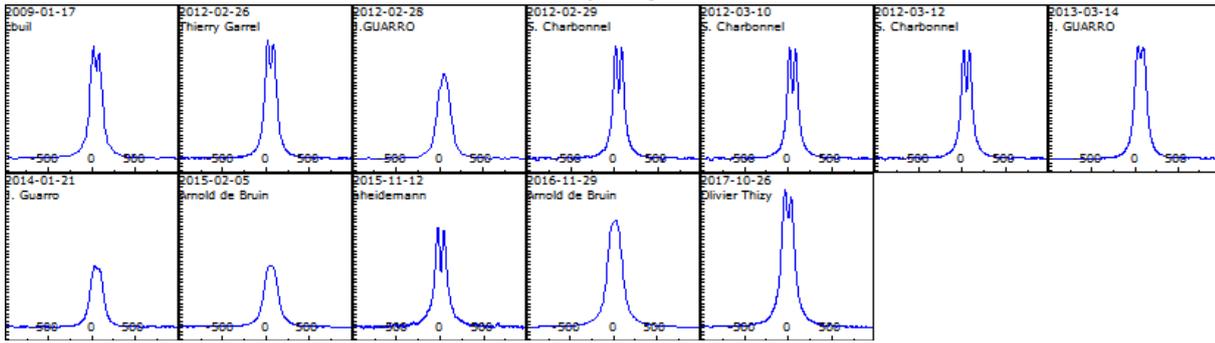
V532 Lyr



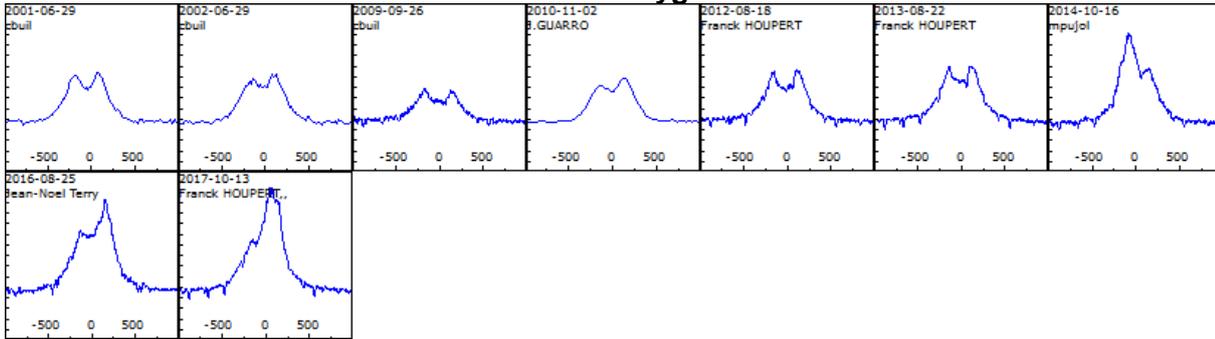
V764 Cas



V1374 Ori

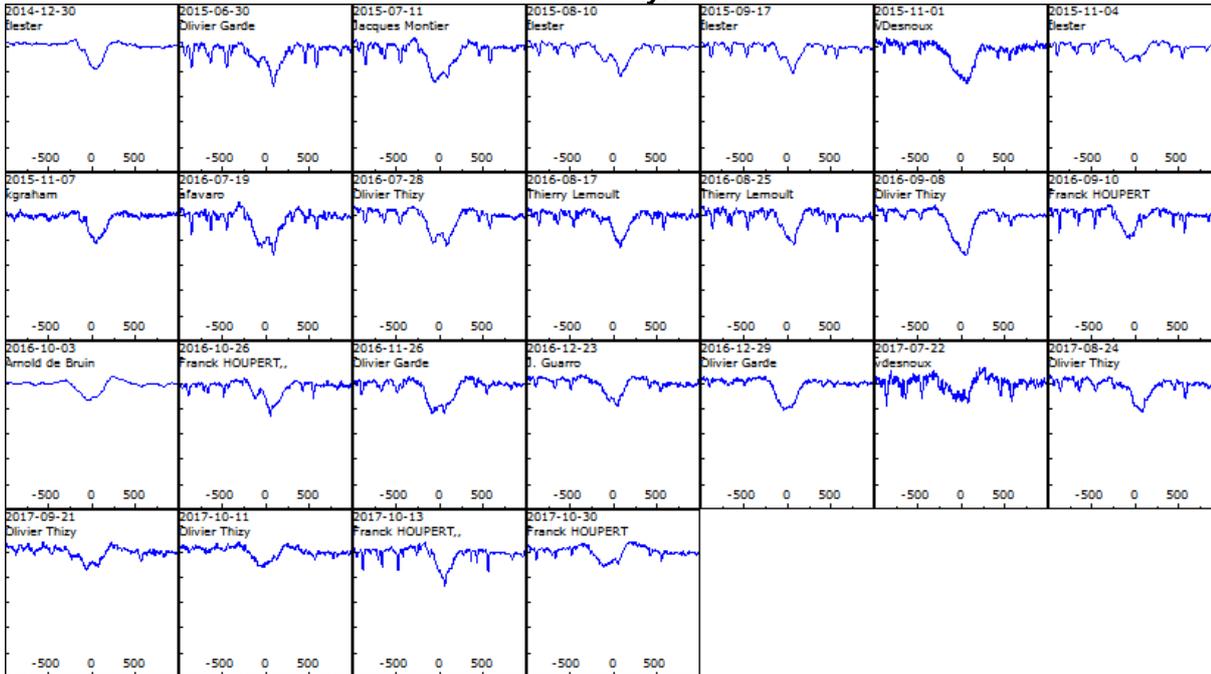


V2162 Cyg

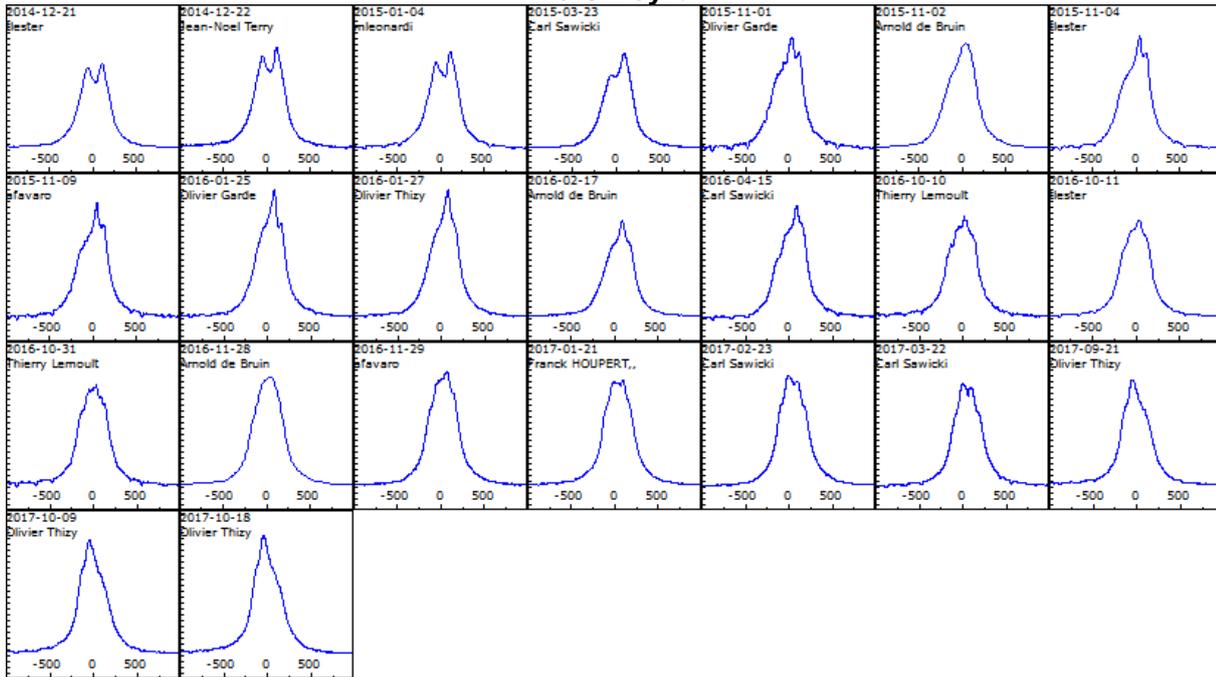


Moderate evolutions of H-alpha line

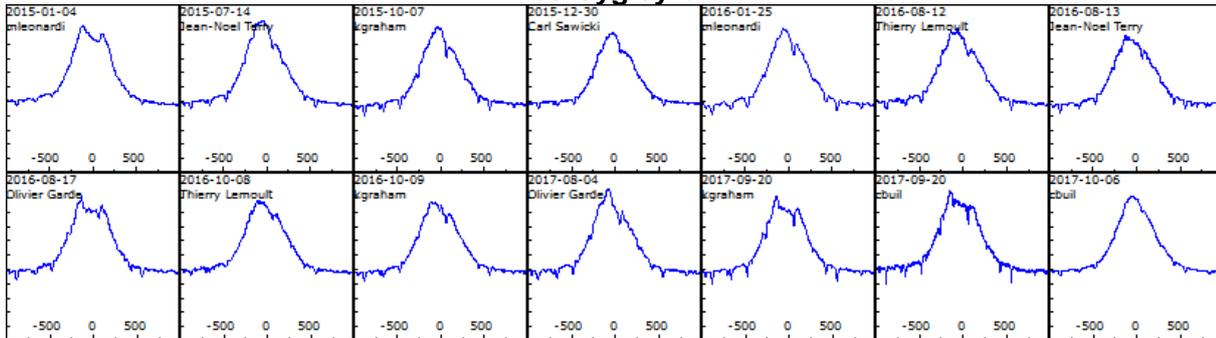
14 lac 3yrs



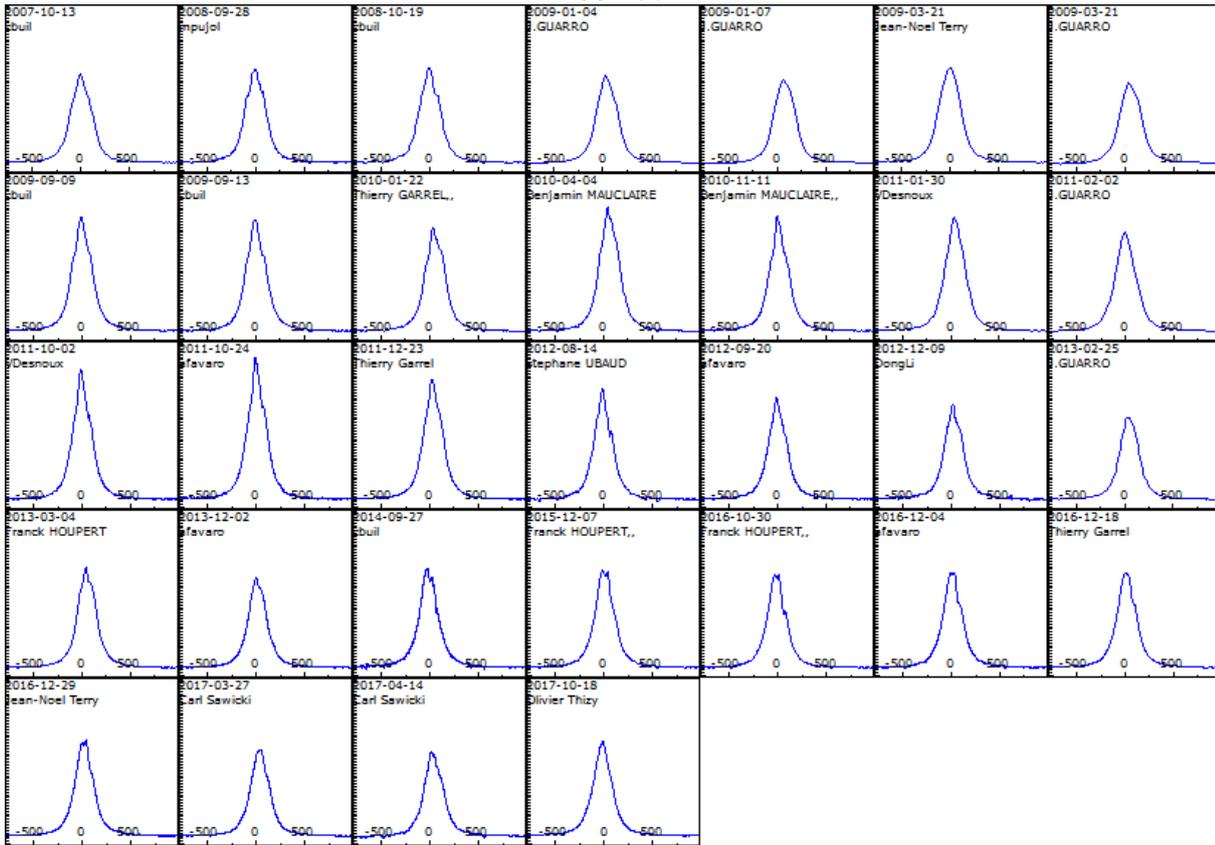
25 Ori 3yrs



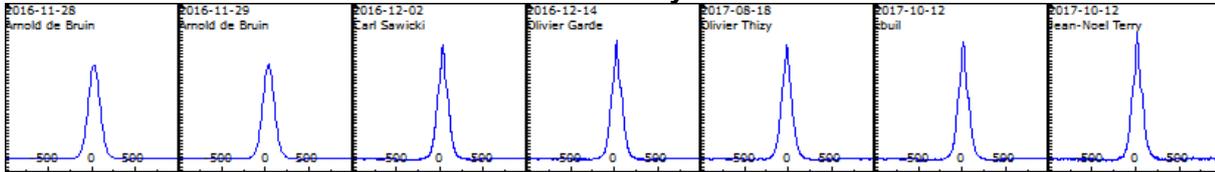
59 Cyg 3yrs



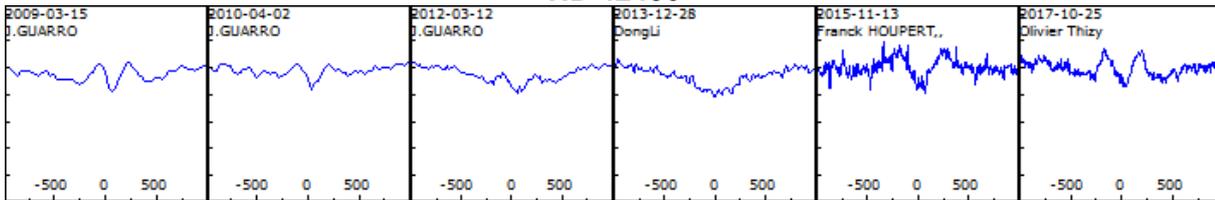
105 Tau



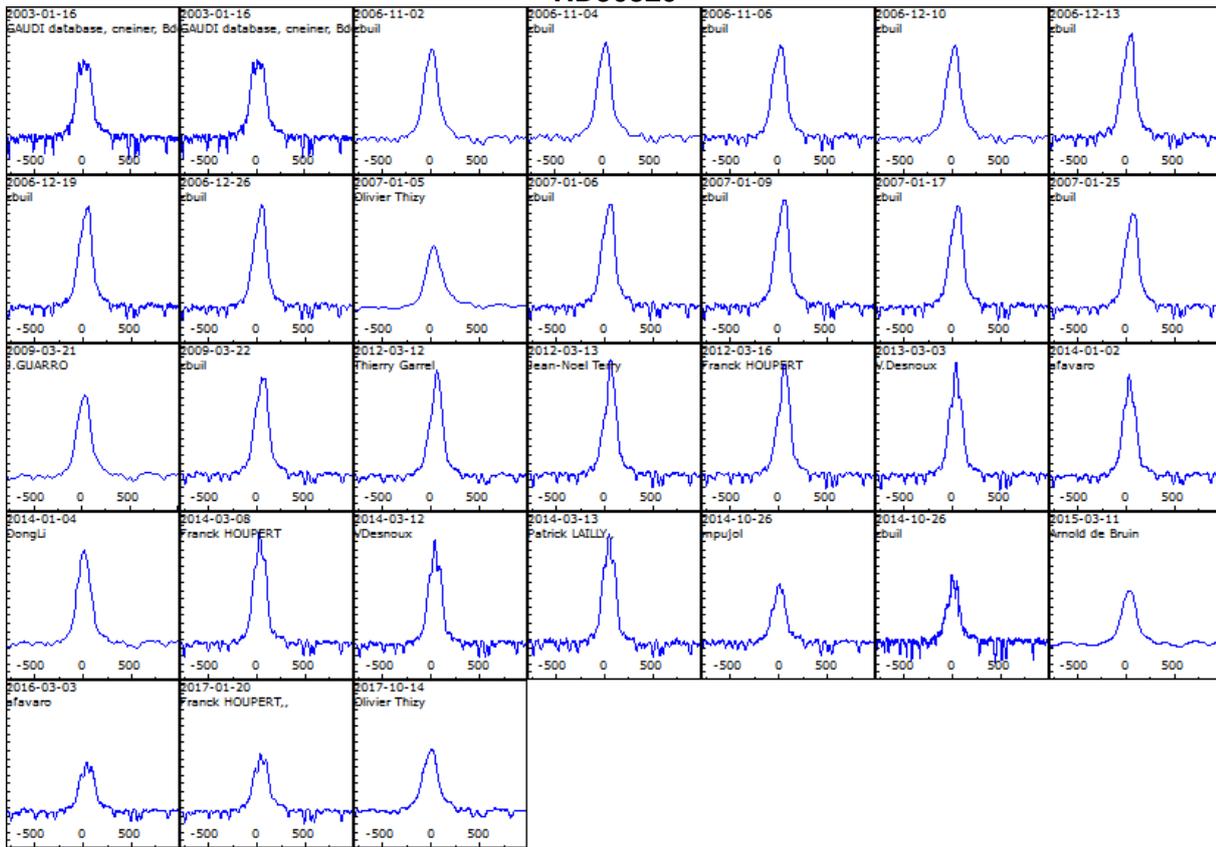
Bet PsC 1yr



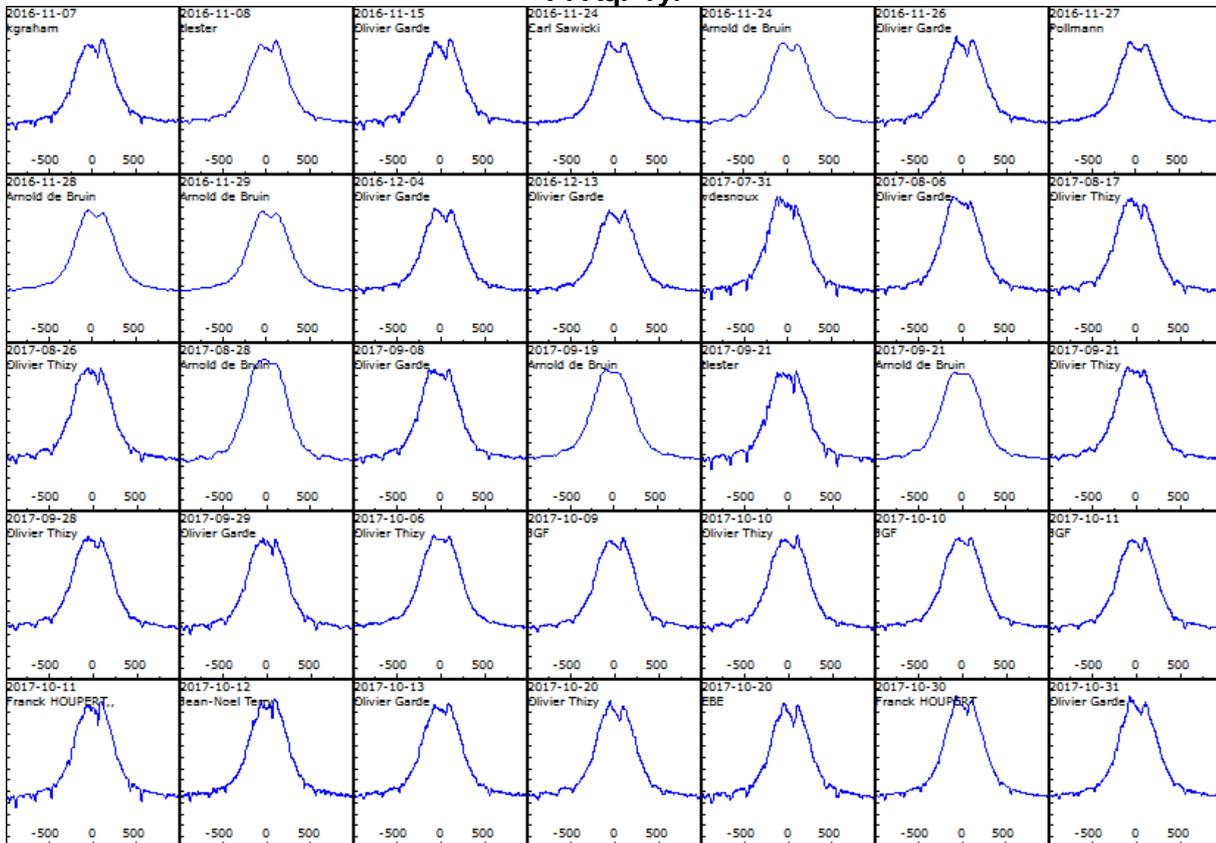
HD 42406



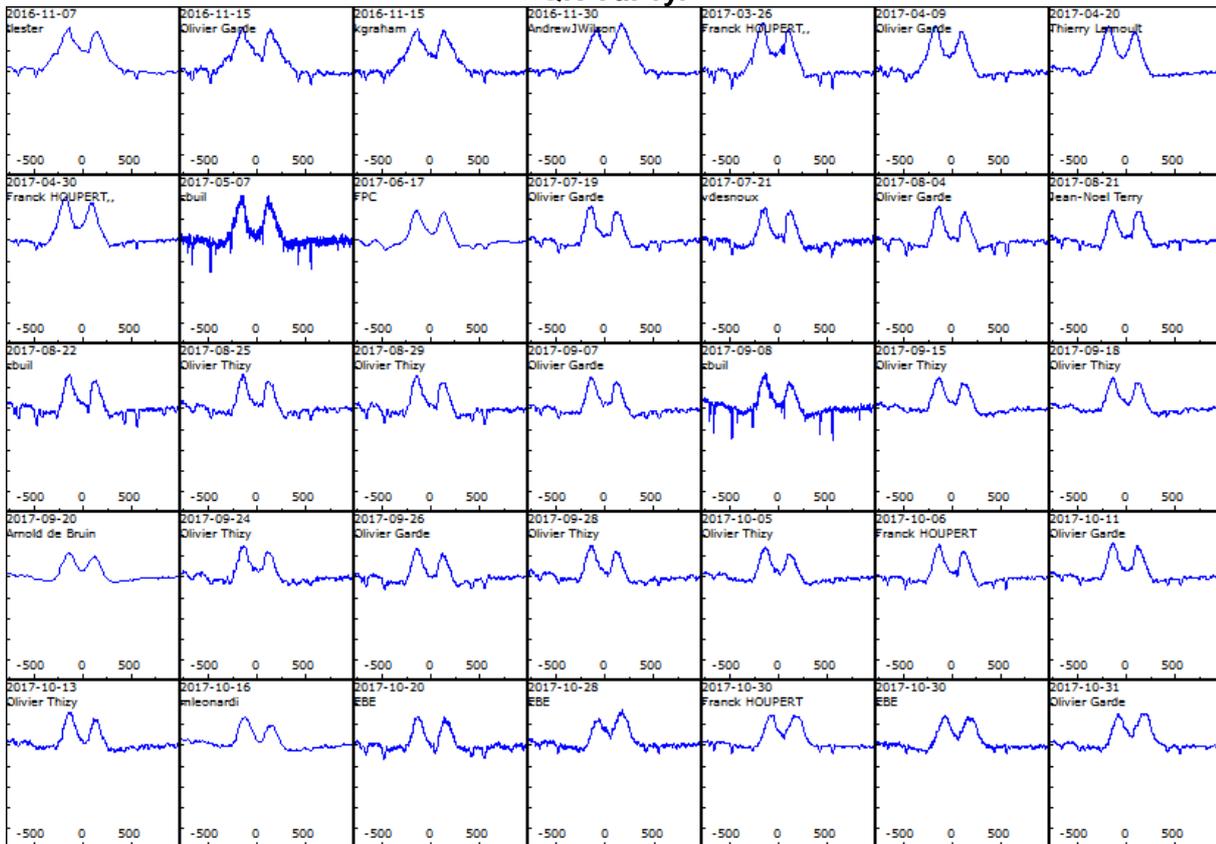
HD50820



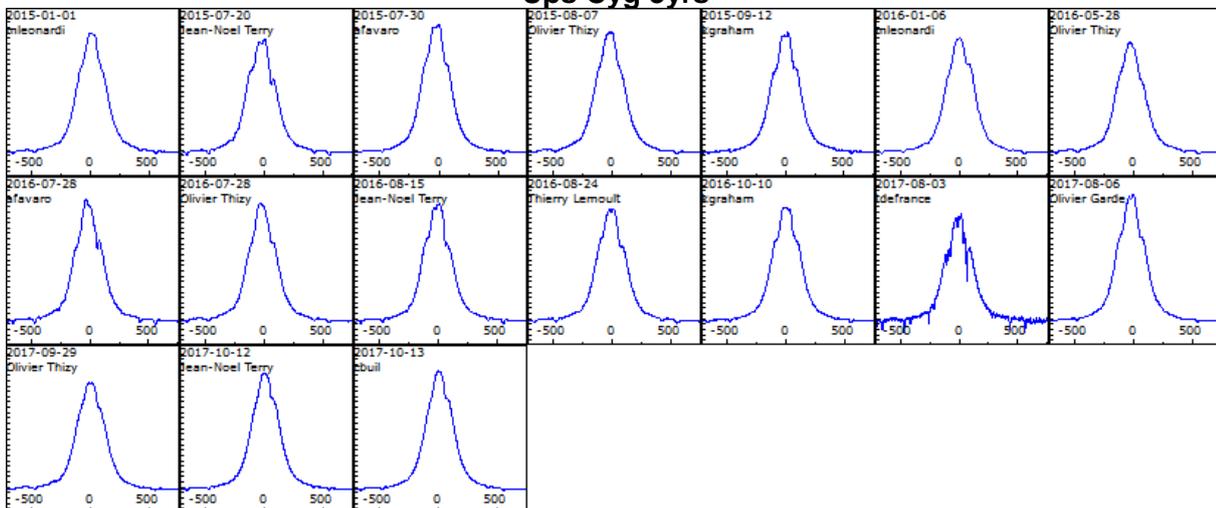
Pi Aqr 1yr



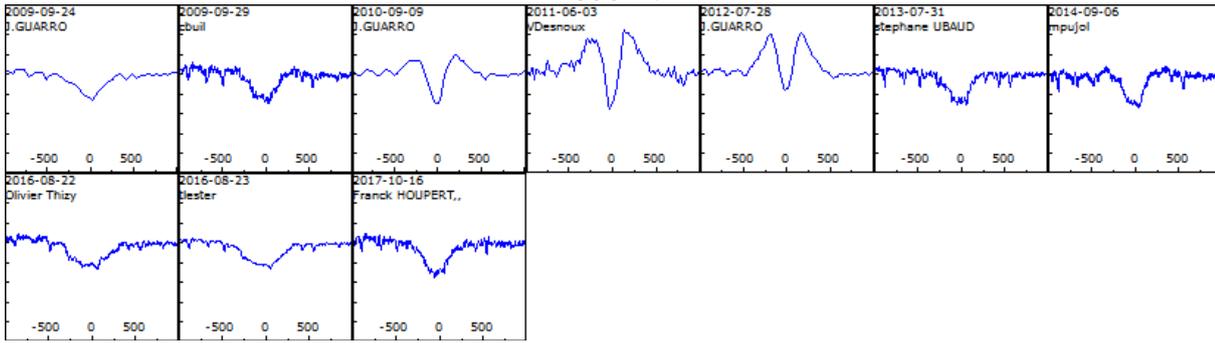
QR Vul 1yr



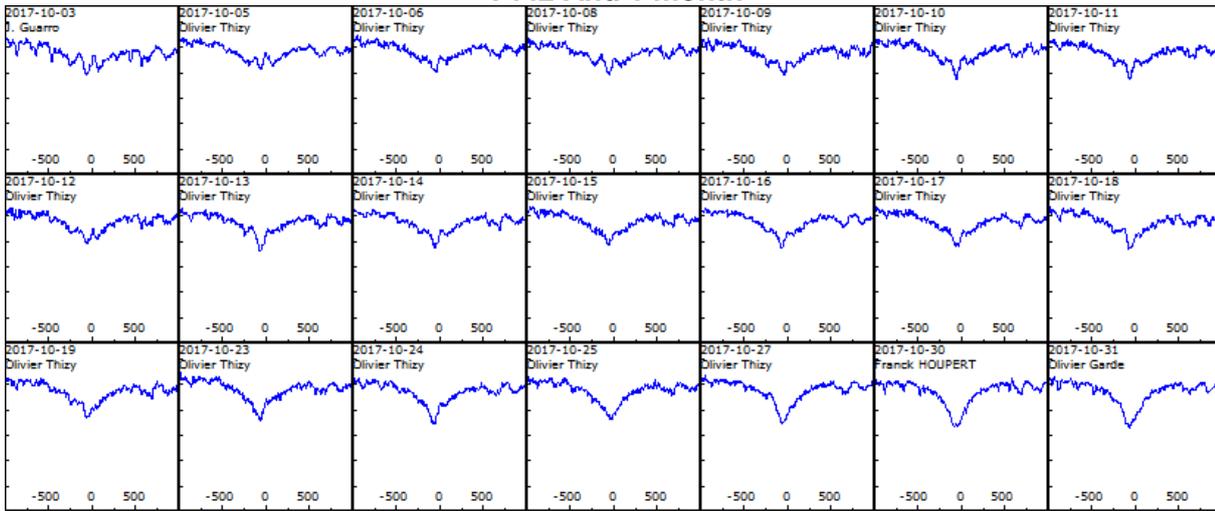
Ups Cyg 3yrs



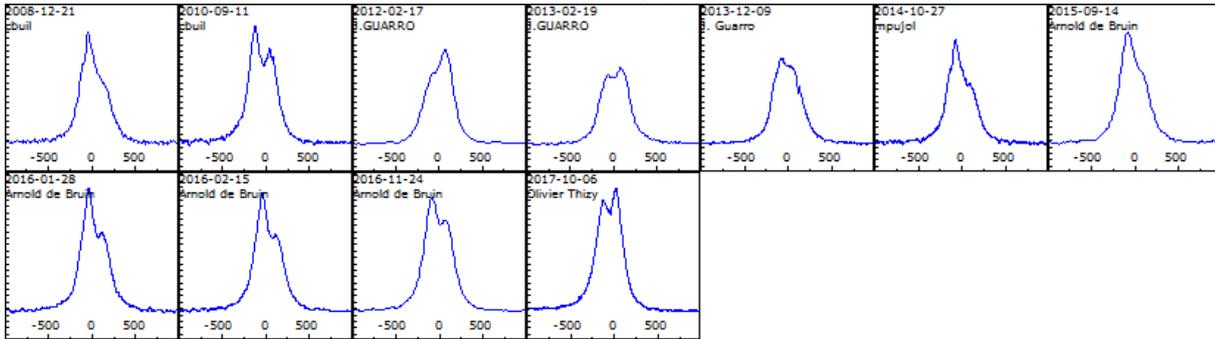
V396 Vul



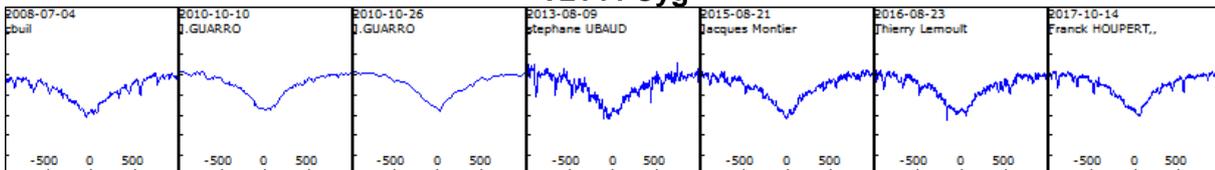
V442 And 1 month



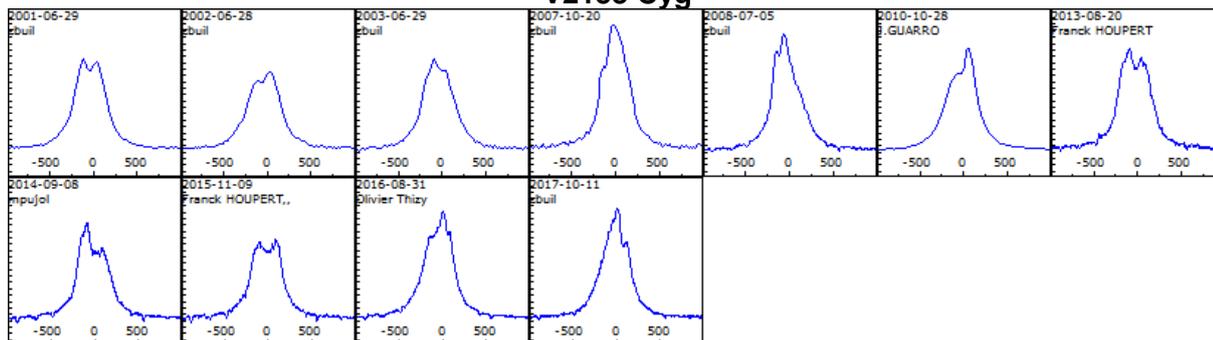
V1150 Tau



V2144 Cyg

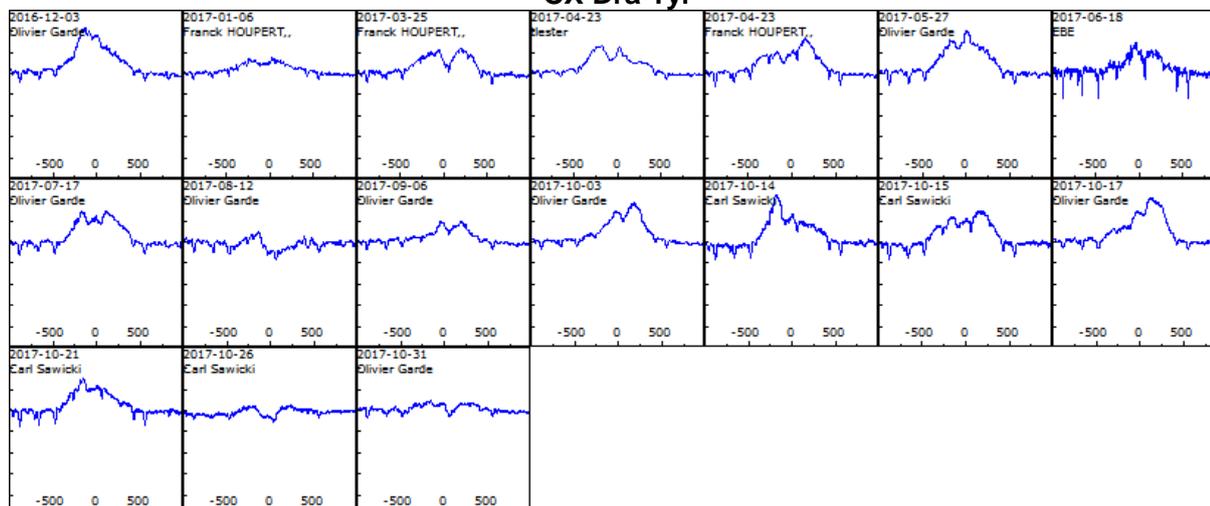


V2153 Cyg

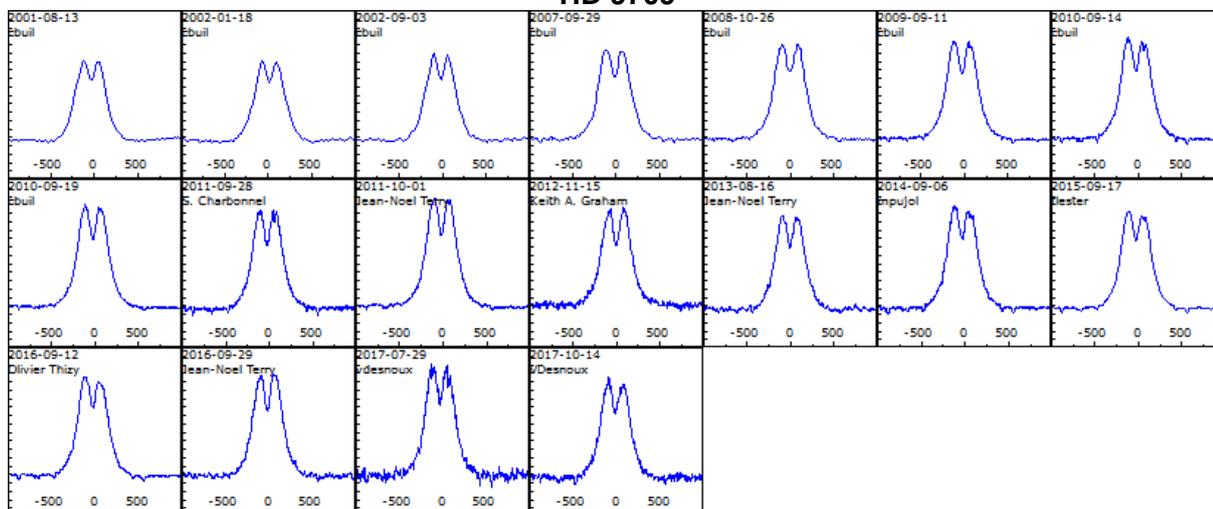


Emission decrease of H-alpha line

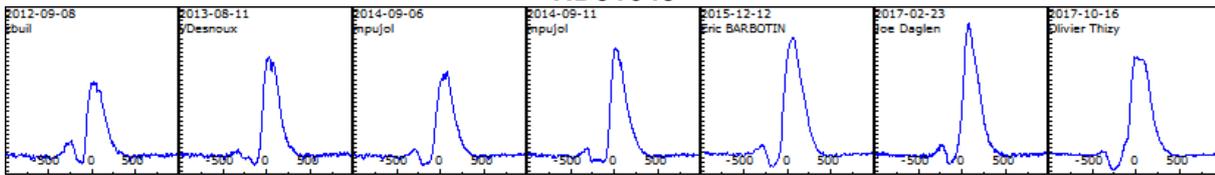
CX Dra 1yr



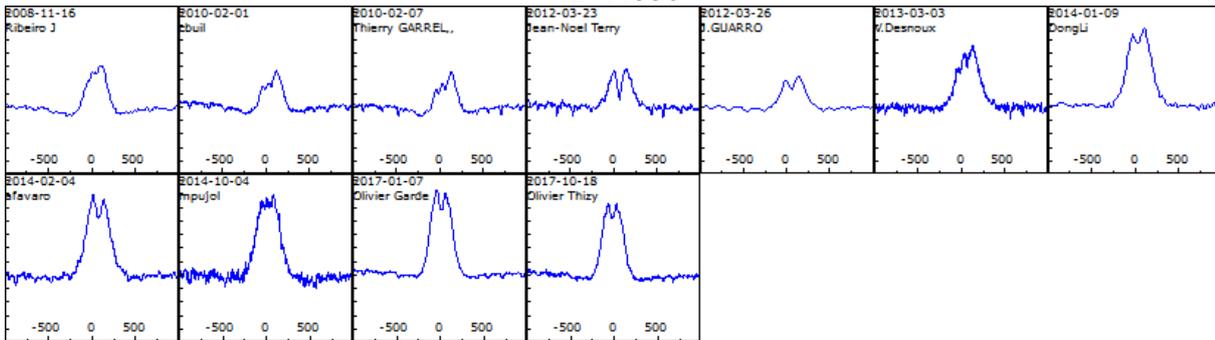
HD 9709



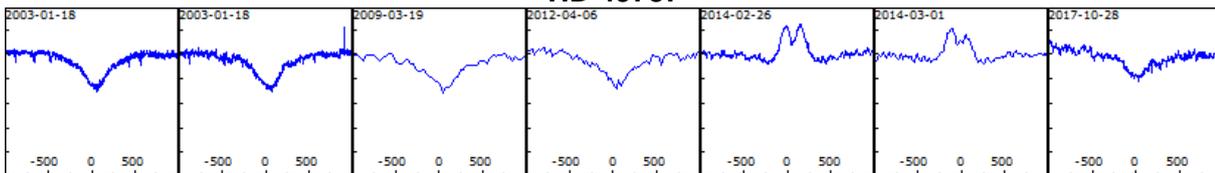
HD31648



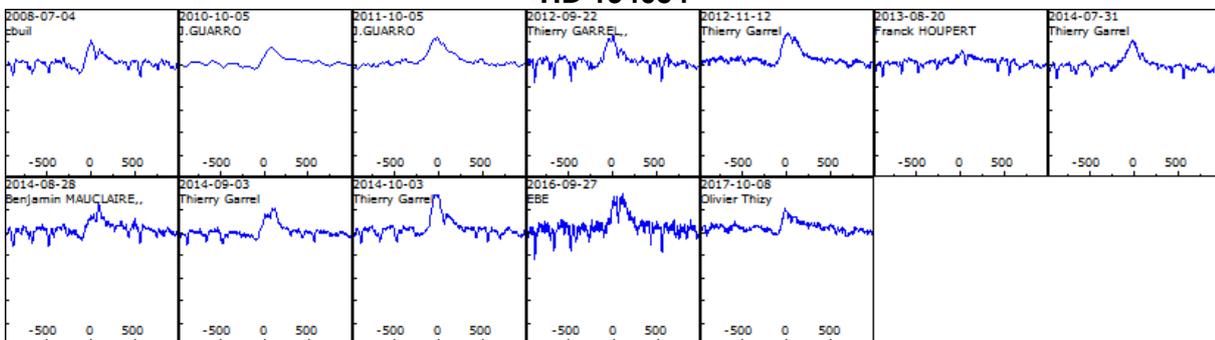
HD 44996



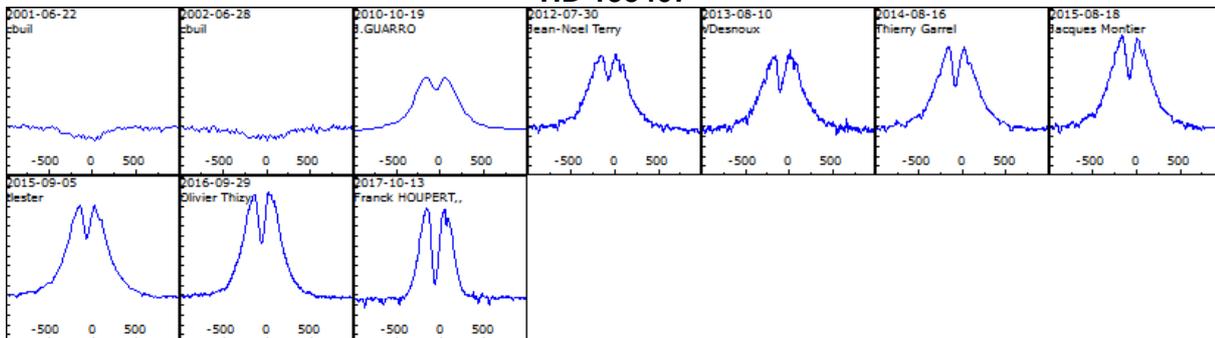
HD 49787



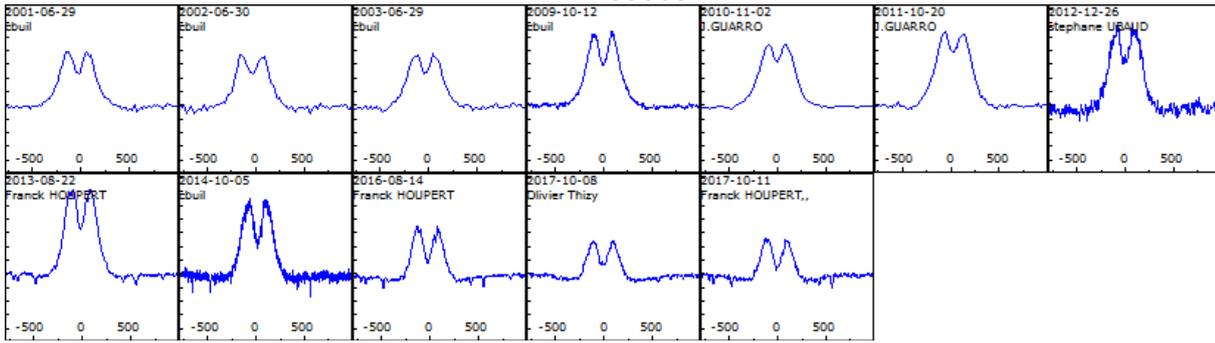
HD 194054



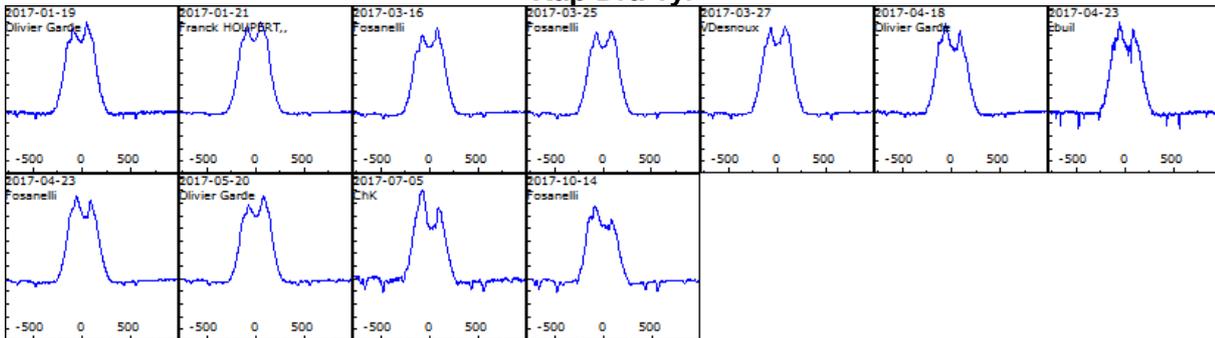
HD 195407



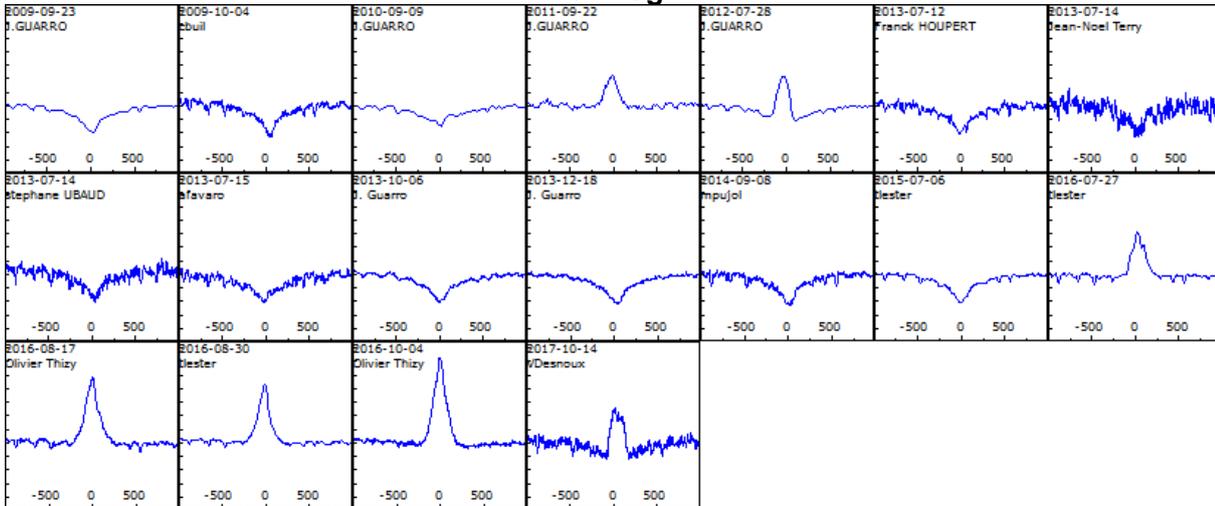
HD 205060



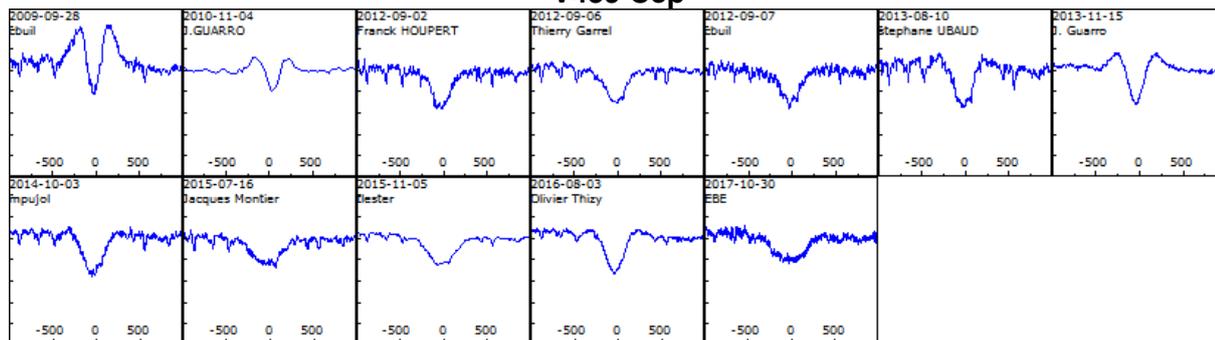
Kap Dra 1yr



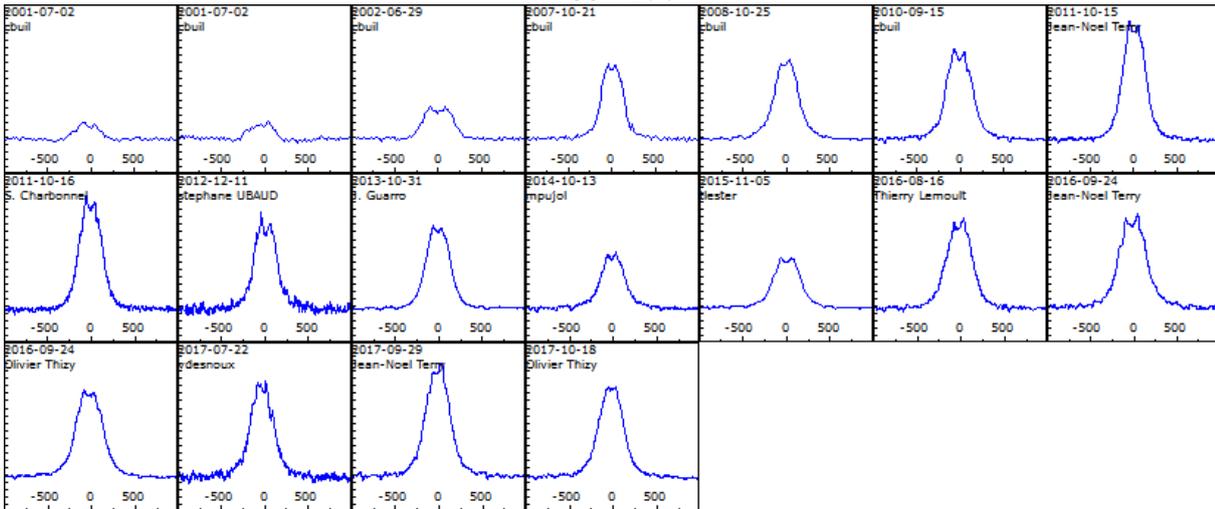
V341 Sge



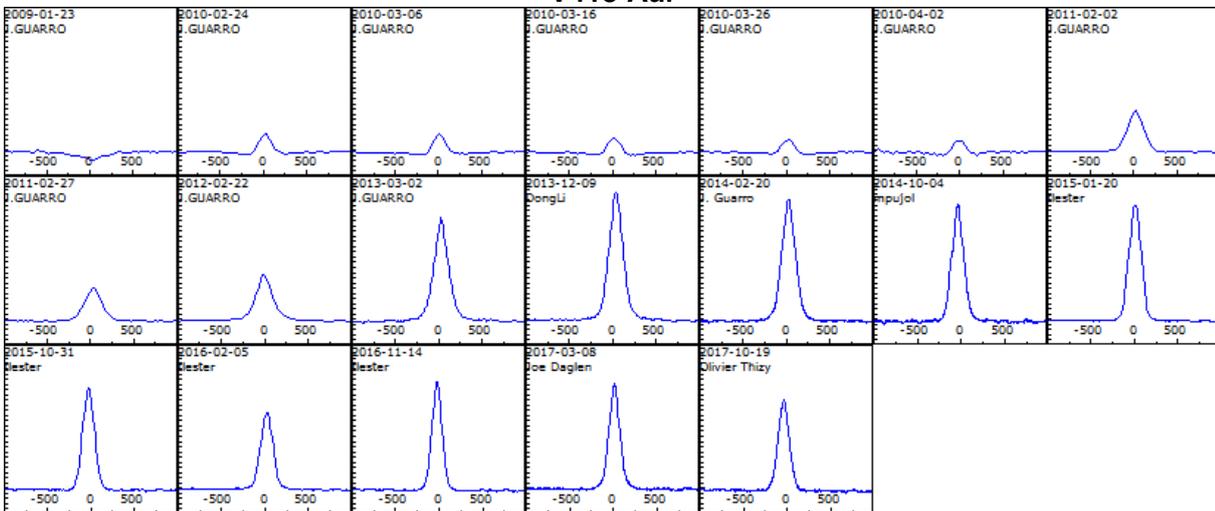
V439 Cep



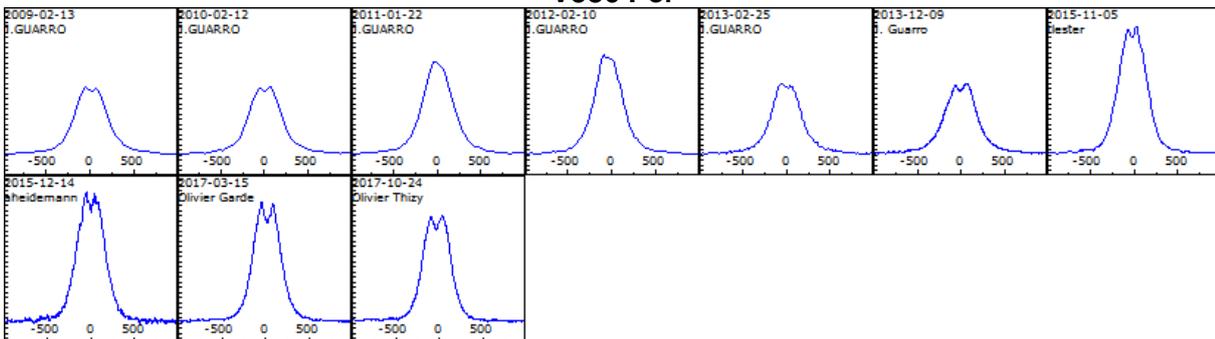
V357 Lac



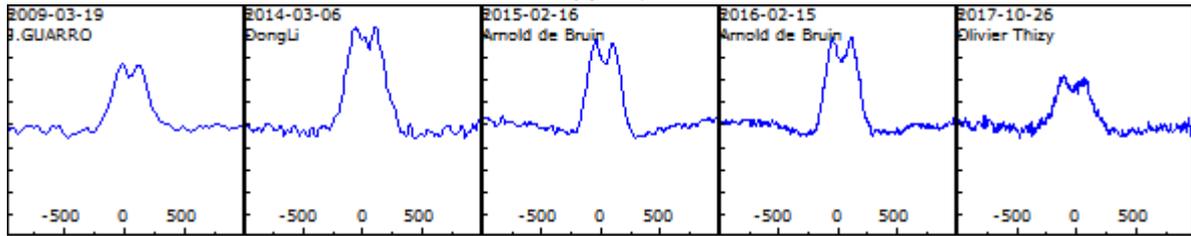
V413 Aur



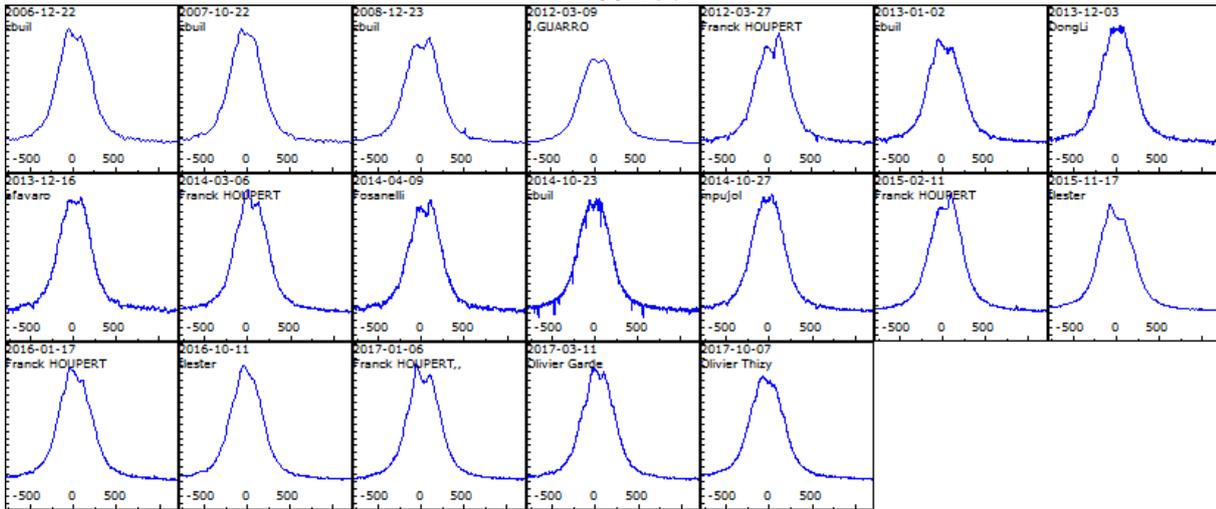
V586 Per



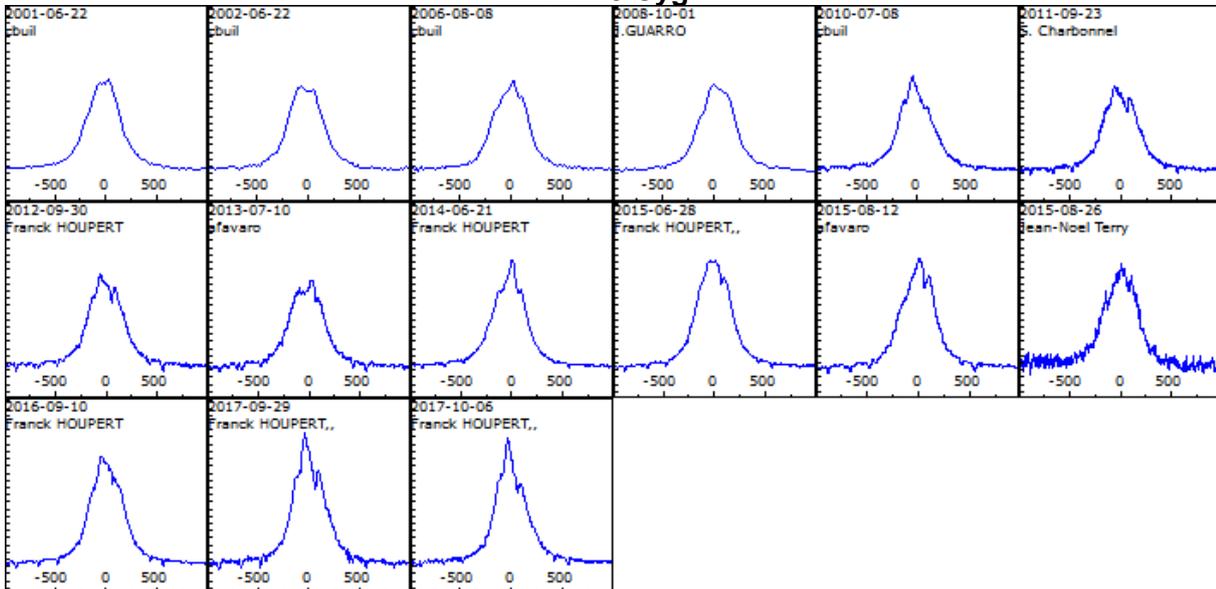
V763 Mon



V1165 Tau



V2113 Cyg



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

Valérie Desnoux

Valerie.desnoux@free.fr

Aras Site at <http://www.astrosurf.com/aras/>

BeSS database at <http://basebe.obspm.fr/basebe/>

ArasBeAM portal at <http://arasbeam.free.fr/>