BeSS report – April 2017

Data compiled by Valérie Desnoux – H-alpha monitoring

Observateur	Nb spec
GARDE	25
Heathcote	22
Sawicki	17
Lemoult	12
Desnoux	12
Buil	11
Guarro Fló	10
HOUPERT	10
bertrand	9
Lester	8
Luckas	7
Graham	3
Fosanelli	3
Sollecchia	3
Rodda	2
Martineau	1
Rodriguez	1
Bohlsen	1
de Bruin	1

- 95   stars were observed
- 19   Observers contributed this month
- 158   Spectra H-alpha

Events of the month...

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

EE	ME	DE
HD 72043	FF Cam	iot Lyr
	HL Lib	V532 Lyr
	48 Lib	V974 Her
	CX Dra	V749 Mon
	lam Cyg	V421 Cep
	eta Ori	

Objects observed

Classique							?
gam Cas	GP Vir	omi Her	HD 171780	ALCYONE	HD 127617	HD 57682	V958 Cen
zet Tau	kap Dra	V532 Lyr	15 Mon	V2148 Cyg	HD 69168	HD 39478	
PLEIONE	I Hya	53 Boo	39 Cru	eta Ori	HD 72043	QY Car	
OT Gem	IU Aur	4 Her	59 Cyg	AX Mon	V749 Mon	V658 Car	
5 Cnc	del Sco	DK Cru	28 Cyg	HD 37352	V1163 Tau	HD 79621	
FF Cam	QR Vul	HD 162428	iot Lyr	HD 71072	HD 175511	V1371 Tau	
tet CrB	SHELIAK	HD 168957	V1040 Sco	HD 21362	HD 175863	HD 90490	
bet CMi	HL Lib	V974 Her	lam Cyg	V415 Aur	HD 112028	J Vel	
ome Ori	chi Oph	CX Dra	11 Cyg	HD 68468	BD+62 271	HD 256577	
nu Gem	48 Lib	HD 50658	25 Cyg	HD 47054	FW CMa	HD 53667	
PHECDA	HD 94963	V817 Cen	V421 Cep	PZ Gem	V353 Car	lam Cru	
zet Crv	AG Car	HD 91120	105 Tau	V695 Mon	HD 97253	mu02 Cru	
HR Car	HD 93563	HD 80459	V507 Car	LX Vel	HD 93843	V644 Mon	
BZ Cru	HD 103574	p Car					

Emission increase since last observations

HD 72043
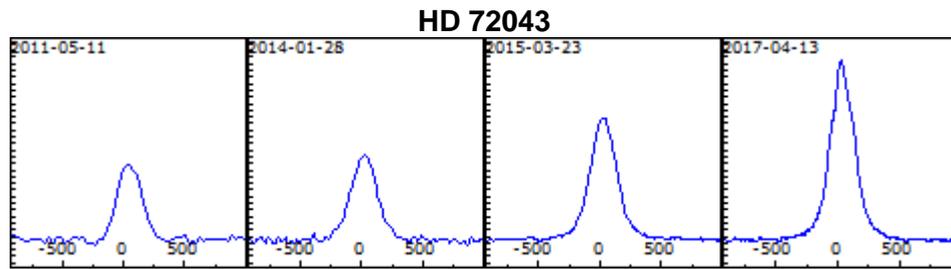
Moderate evolutions of H-alpha line

48 Lib 3yrs

CX Dra 1 yr
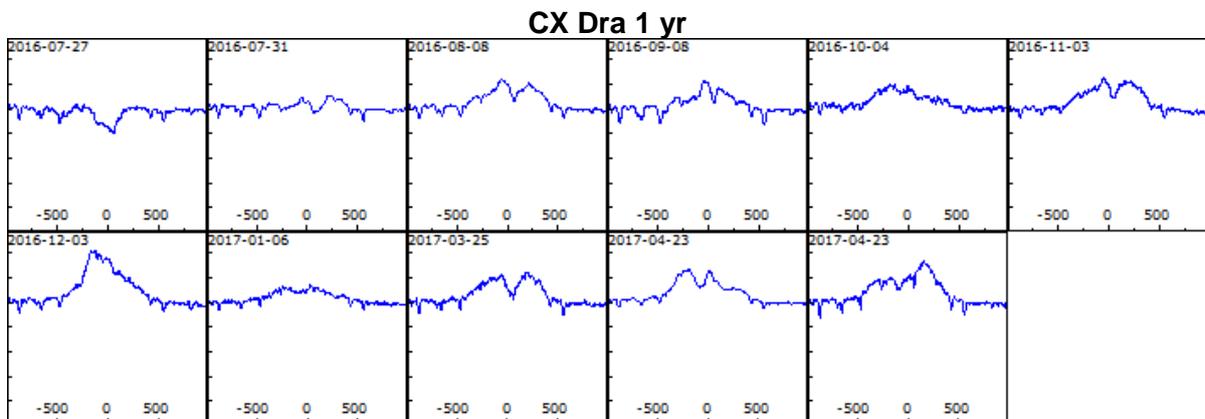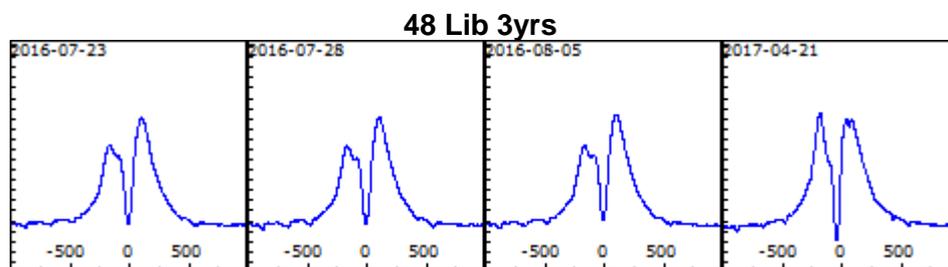
FF Cam 1yr
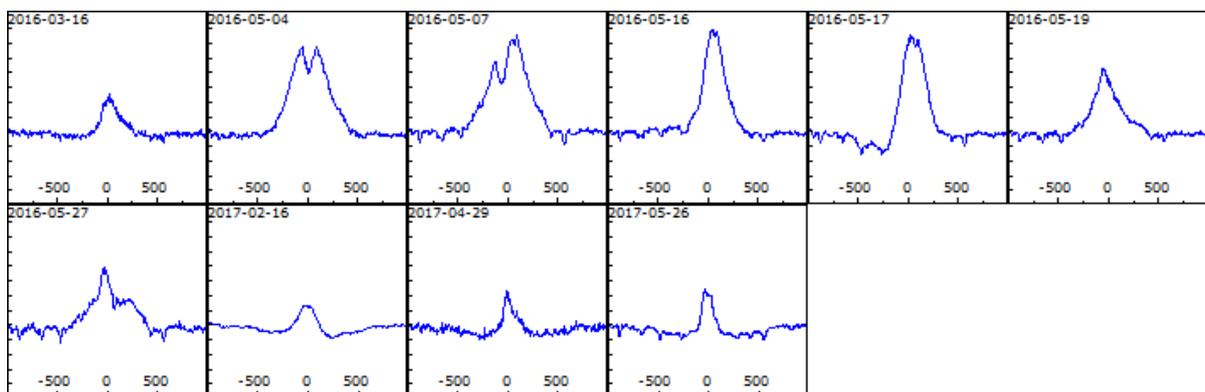
# Eta Ori 1yr
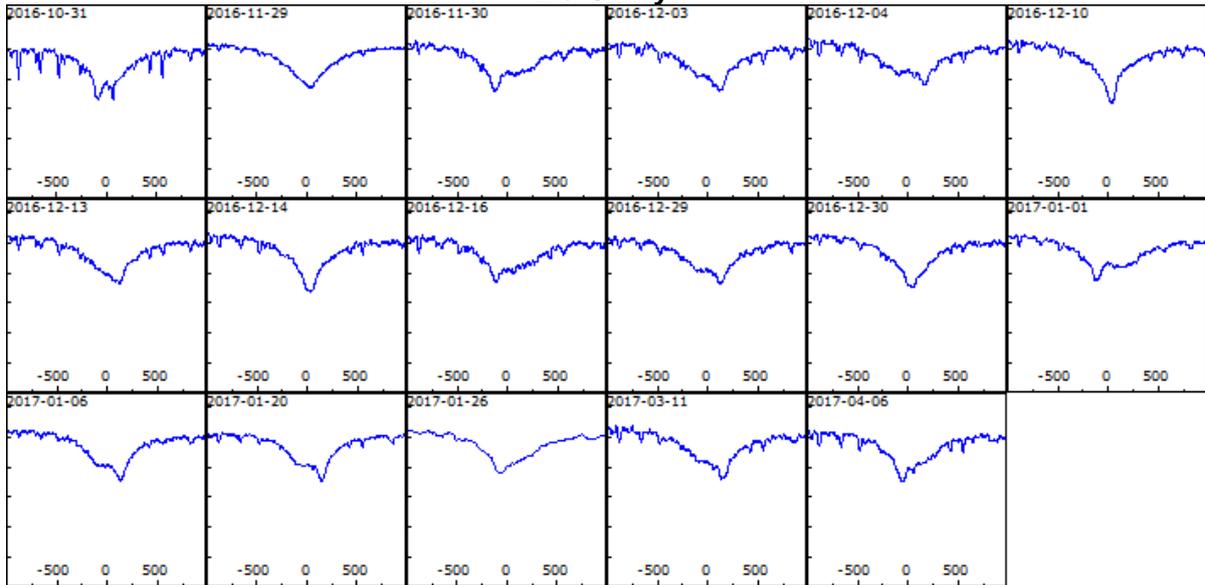
# HL Lib
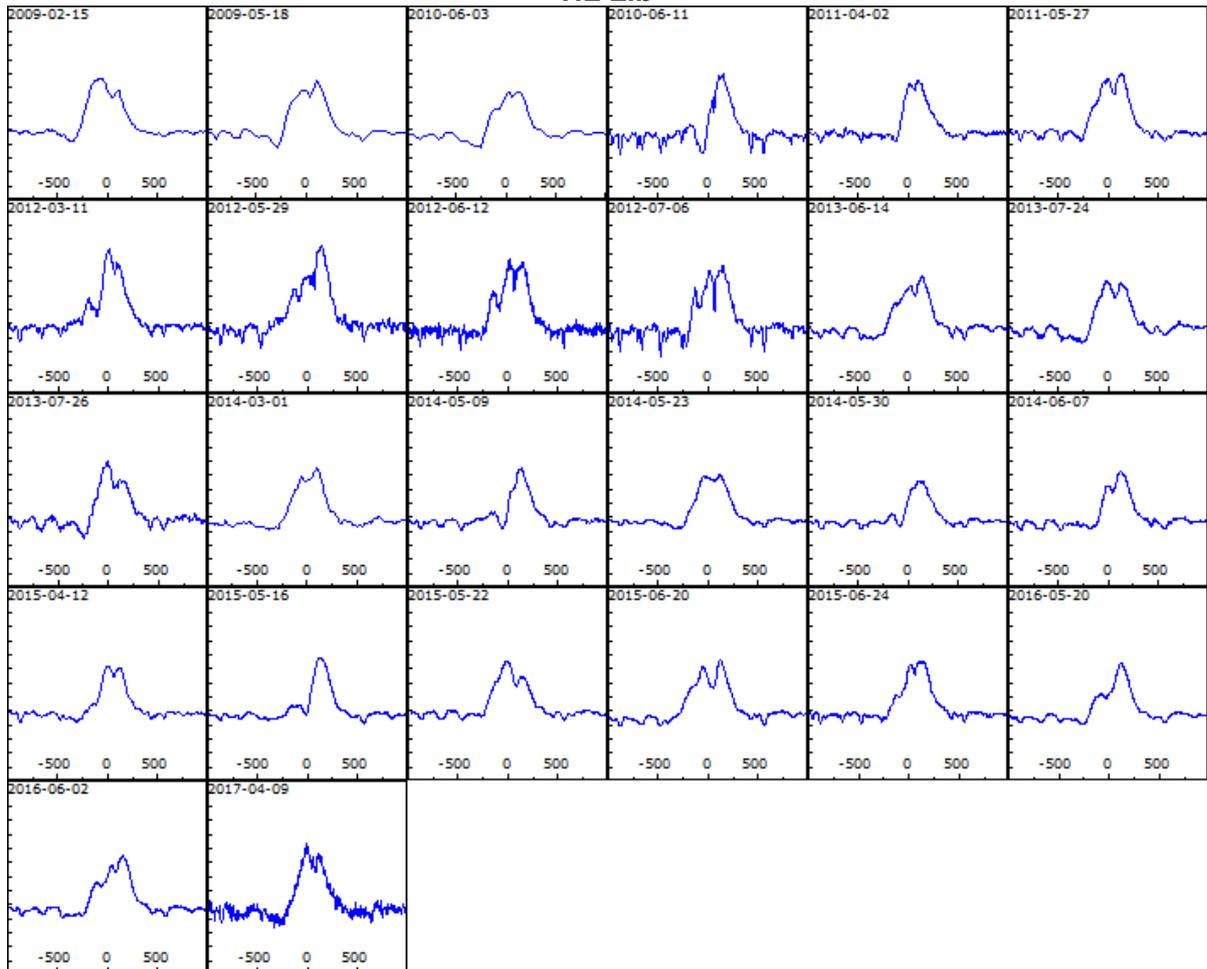
Lam Cyg 1yr
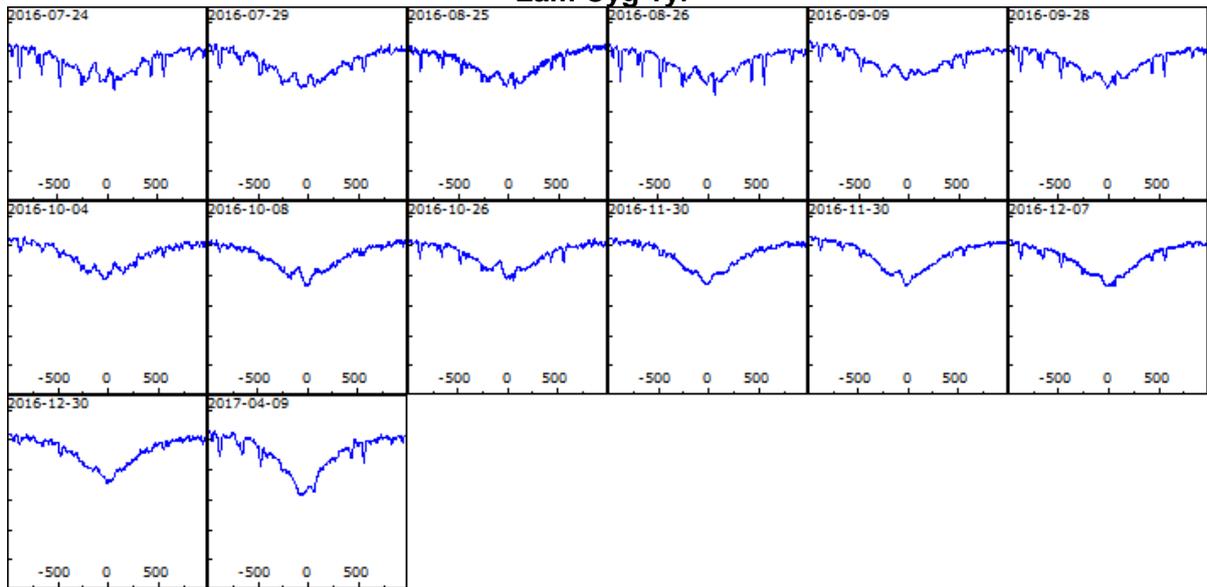
Emission decrease of H-alpha line

Iot Lyr 1yr
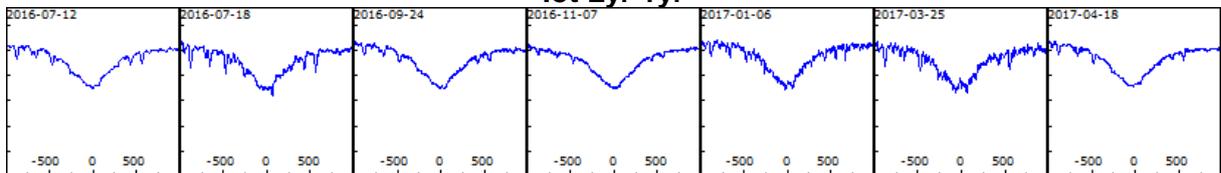
V421 Cep

V532 Lyr

V749 Mon

V974 Her
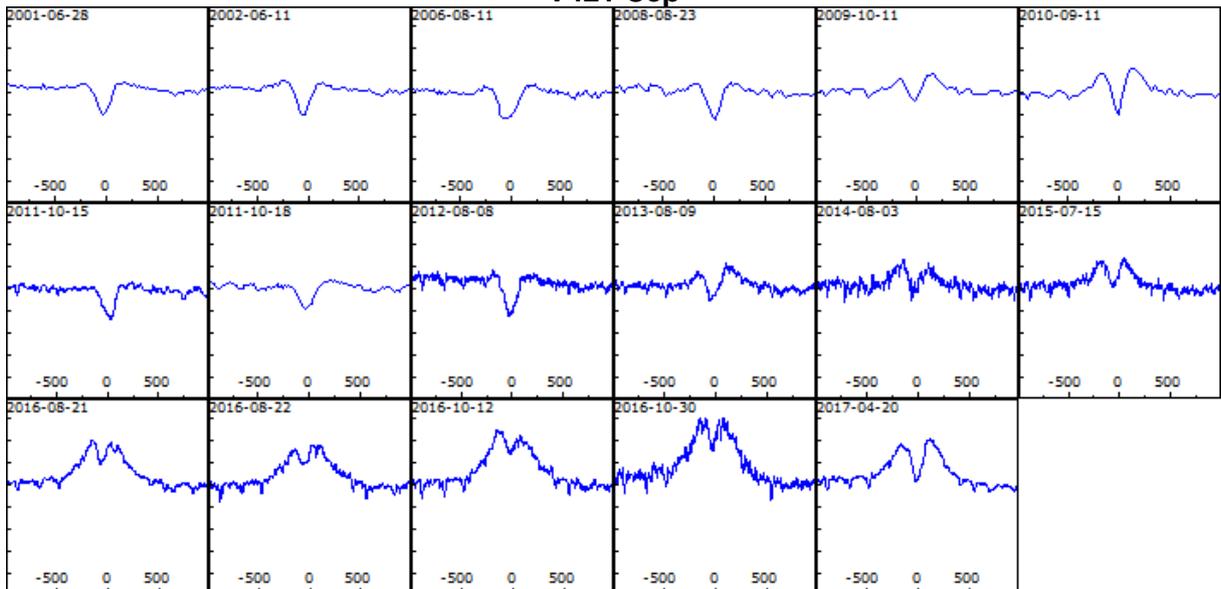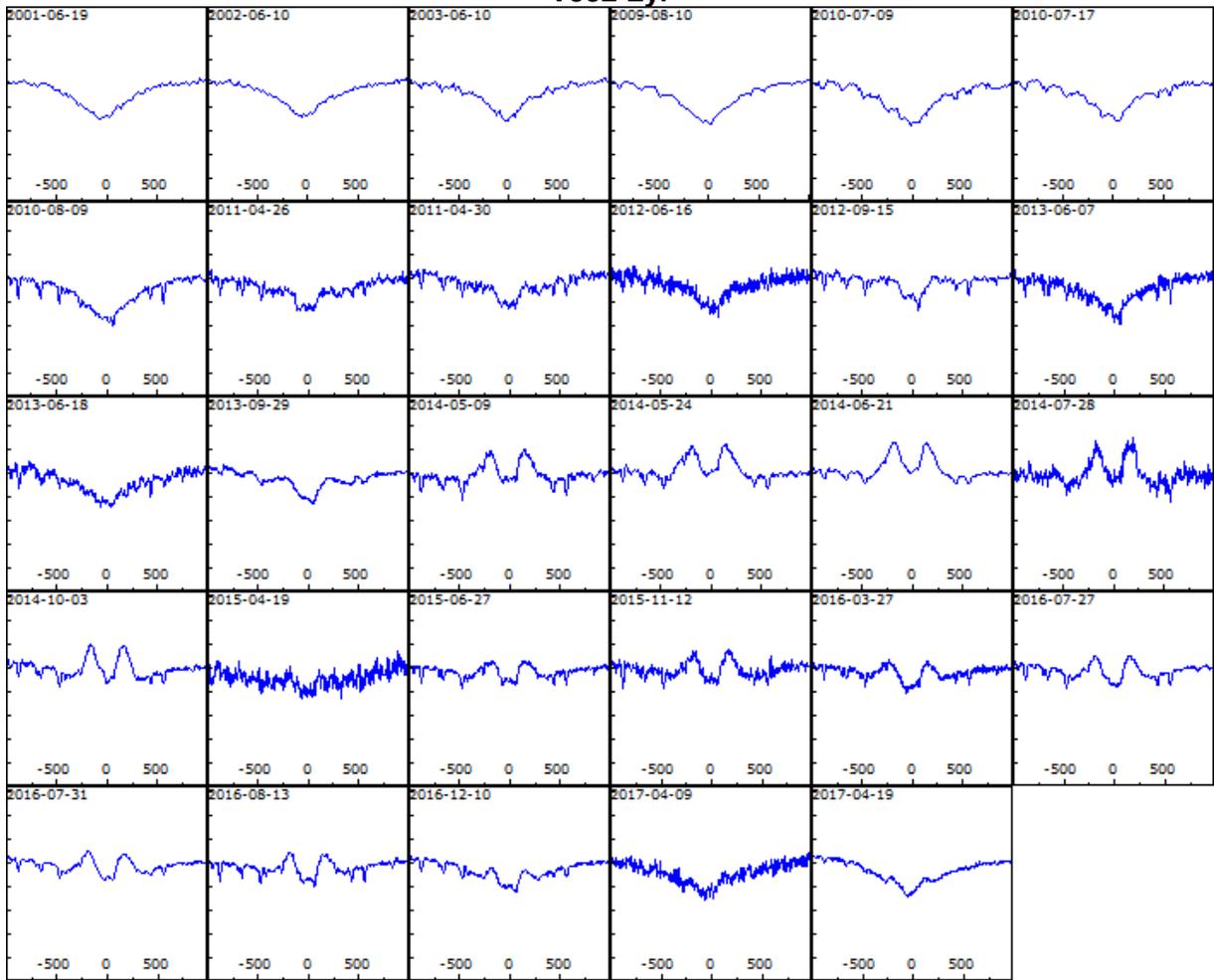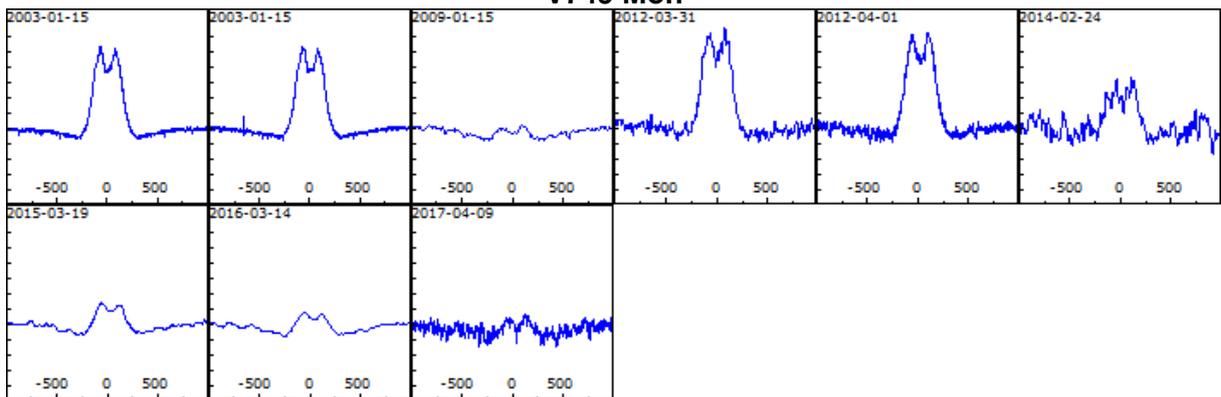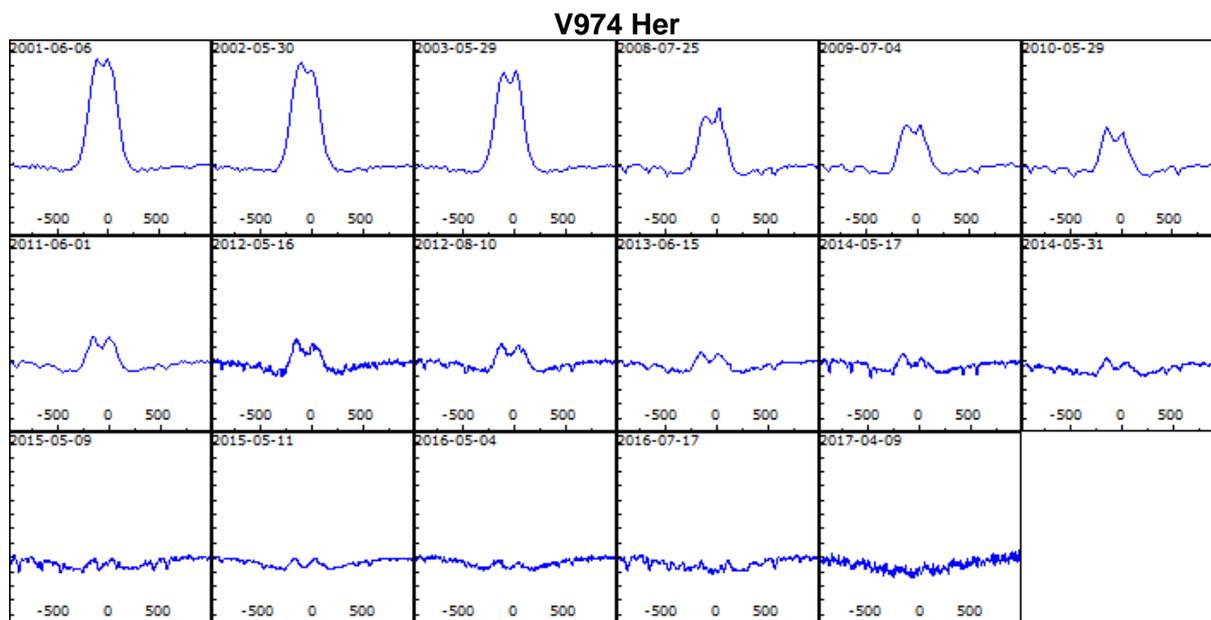
Materiel & Method

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 Heliocentric correction is applied, and 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/