

# BeSS report – September 2019

*Data compiled by Valérie Desnoux – H-alpha monitoring*

- 182 stars were observed
- 29 Observers contributed this month
- 448 Spectra

## Observers...

Observateur	Nb spec
Thizy	78
Charbonnel	48
Buil	44
bertrand	37
HOUPERT	33
TERRY	30
Bryssinck	19
Halsey	18
Leadbeater	17
Desnoux	15
Graham	14
Lester	14
KREIDER	13
Berardi	11
Bohlsen	9
de Bruin	8
Sollecchia	6
MAETZ	6
James	6
Guarro Fló	3
Dumont	3
Dull	3
GARDE	3
Martineau	3
Dejean	2
Luckas	2
Boussier	1
Heathcote	1
Allen	1
<b>Total général</b>	<b>448</b>

## Events of the month...

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

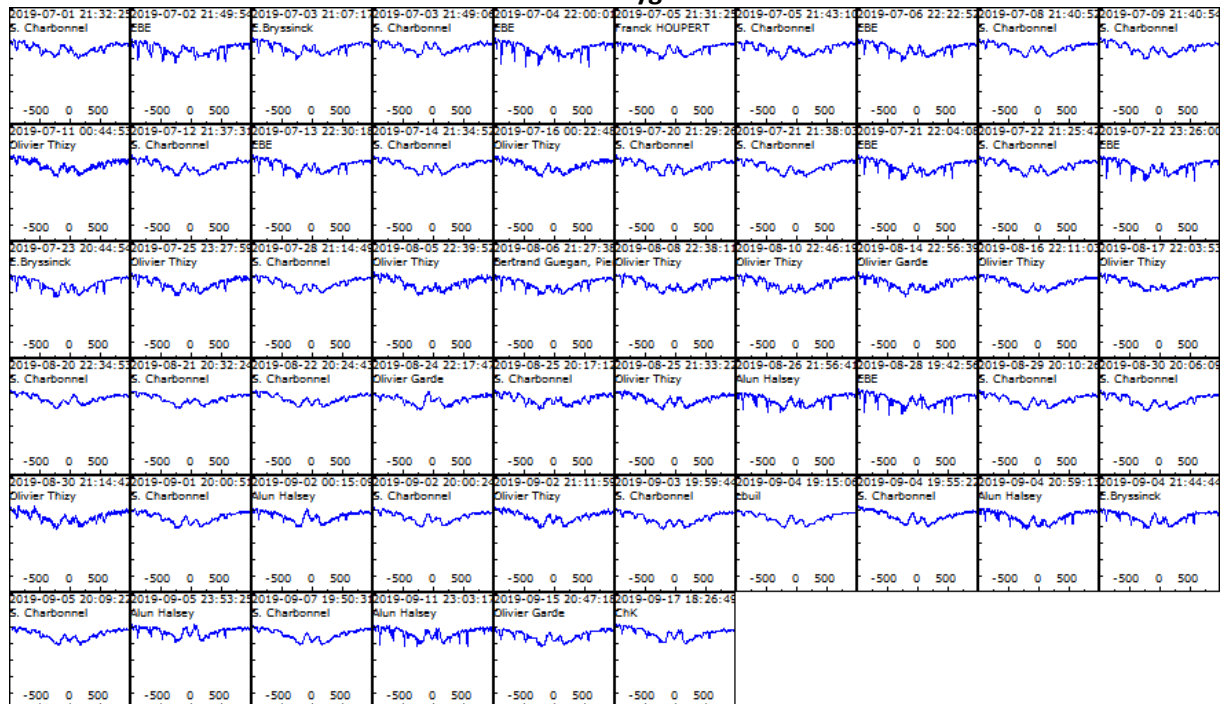
EE	ME	DE
Iam Cyg	V442 And	V1448 Aql
QR Vul	CX Dra	V568 Cyg
V2113 Cyg	59 Cyg	HD 194779
ups Cyg	V923 Aql	14 Lac
phi Per	HD 9709	HD 192445
V2162 Cyg	CT Cam	V1362 Cyg
EM* MWC 1063	V357 Lac	V801 Cas
HD 18552	8 Lac A	HD 23552
V423 Lac	alf Ara	KX And
NT Peg	V378 And	CW Cep
V408 Lac	HD 24479	V1294 Aql
12 Aur	HD 13669	7 Vul
zet Tau	Menkhib	HD 232552
V397 Lac	V780 Cas	V549 Per
HD 215605	V584 Per	V817 Cas
Iam Eri		EM Cep
V783 Cas		HD 205060
HD 199218		HD 21362
V548 Per		V416 Aur
HD 215227		V4031 Sgr
HD 212666		V975 Cas
V504 Per		
EM* AS 518		
V450 Cep		
BD+62 287		
BD+54 2718		
BD+62 1		
BD+56 582		
V594 Cas		
VX Cas		
XY Per		

## Objects observed

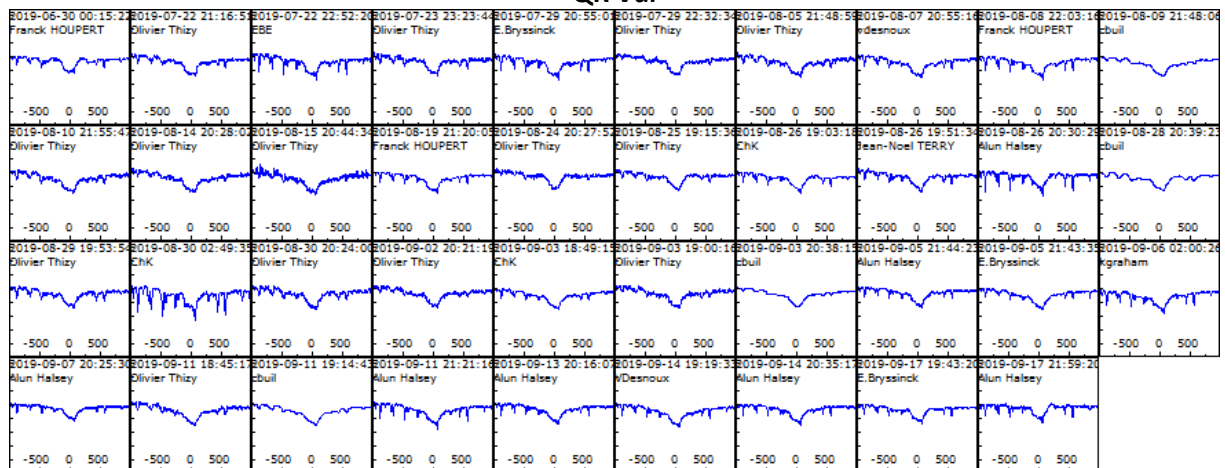
Classique						B[e]	herbig
V442 And	V1448 Aql	omi And	lam Cyg	QR Vul	28 Cyg	V594 Cas	V380 Cep
V2113 Cyg	gam Cas	25 Cyg	V568 Cyg	phi And	pi Aqr		VX Cas
ups Cyg	phi Per	HD 206773	HD 194779	V2136 Cyg	V2148 Cyg		IL Cep
HD 175511	CX Dra	PLEIONE	psi Per	omi Cas	60 Cyg		SV Cep
nu Cyg	V421 Cep	HD 175863	14 Lac	SHELIAC	KY And		IP Per
LQ And	HD 192445	59 Cyg	18 And	V2155 Cyg	HD 183339		XY Per
V1362 Cyg	HD 171780	V923 Aql	V801 Cas	10 Cas	HD 201836		
HD 201522	bet Psc	V2153 Cyg	V2162 Cyg	V420 Cep	V2211 Cyg		
EM* MWC 1063	EM* CDS 1228	12 Vul	EW Lac	HD 23552	HD 21455		
KX And	HD 179343	HD 9709	HD 13867	CT Cam	CW Cep		
HD 197038	HD 213088	V532 Lyr	20 Vul	iot Lyr	V1339 Aql		
HD 224544	V1294 Aql	16 Peg	HD 18552	V777 Cas	V423 Lac		
V818 Cas	NT Peg	V408 Lac	V787 Cas	HD 21641	12 Aur		
V357 Lac	HD 228041	V385 Cep	V2166 Cyg	HD 208220	BD+60 2584		
BD+63 124	HD 6343	HD 223044	V409 Lac	zet Tau	7 Vul		
eps Cas	HD 232552	HD 20017	8 Lac A	V397 Lac	EE Cep		
BD+49 3615	HD 198931	alf Ara	V2175 Cyg	HD 235795	HD 215605		
4 Her	4 Aql	V378 And	25 Peg	HD 181409	HD 24479		
48 Per	omi Aqr	lam Eri	ALCYONE	BD+46 3087	V783 Cas		
MEROPE	HD 13669	HD 9612	HD 199218	V2163 Cyg	8 Lac B		
HD 21650	V549 Per	V817 Cas	Menkhib	EM Cep	HD 205060		
V420 Aur	HD 29866	HD 21362	EM* MWC 709	V808 Cas	V424 Per		
V358 Per	V548 Per	HD 23982	V416 Aur	V780 Cas	V1463 Aql		
V1466 Aql	V750 Ara	V2144 Cyg	HD 215227	HD 212666	HD 216044		
V584 Per	V425 Cyg	V2172 Cyg	V504 Per	EM* AS 518	V3508 Sgr		
HD 197434	V450 Cep	V767 Cen	HD 119682	BD+53 2964	PS Cep		
V2188 Cyg	BD+62 287	BD+54 2399	BD+47 3302	BD+62 2158	EM* AS 521		
HD 228658	BD+54 2718	V4031 Sgr	BD+59 334	EM* AS 25	BD+62 1		
BD+57 607a	CI* NGC 6871 BP 2	EM* GGR 144	NGC 7654 930	EM* GGR 142	EM* MWC 1055		
HD 154218	BD+56 582	BD+56 579	V975 Cas	HD 14162	V519 Per		
BD+61 122	EM* StHA 166						

## Emission increase since last observations

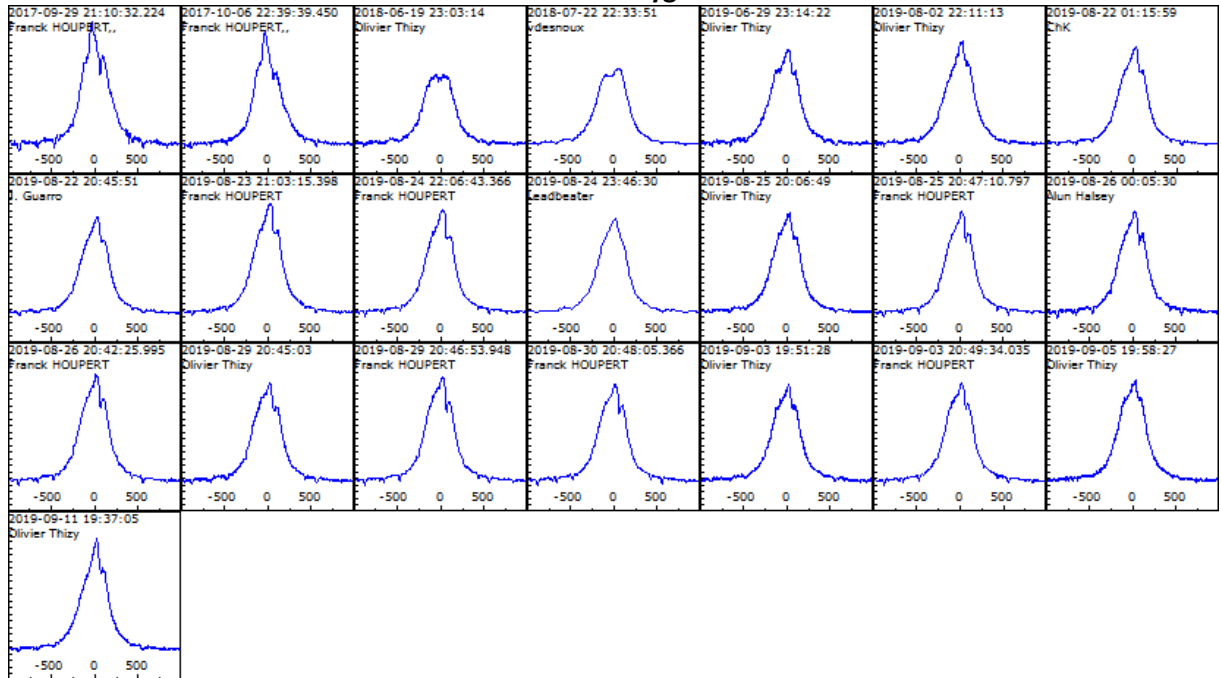
### Iam Cyg



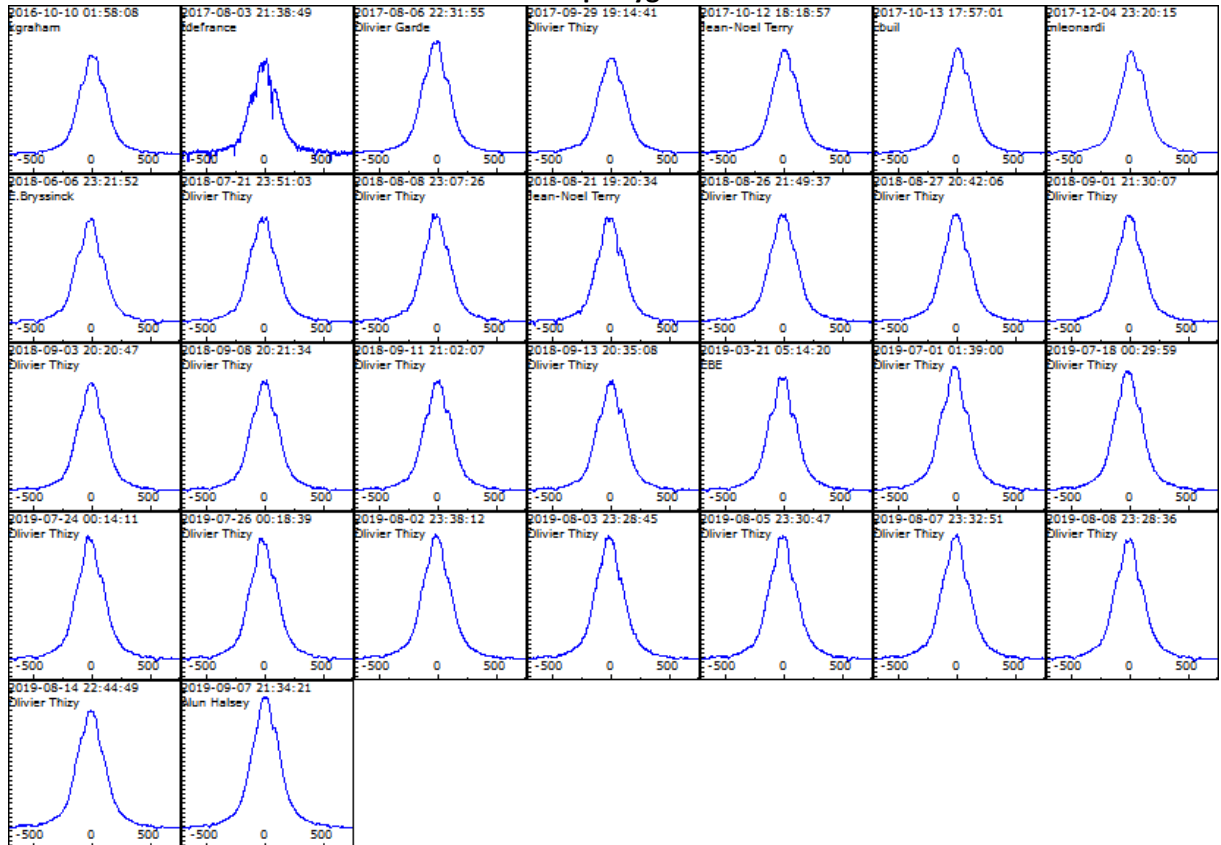
### QR Vul



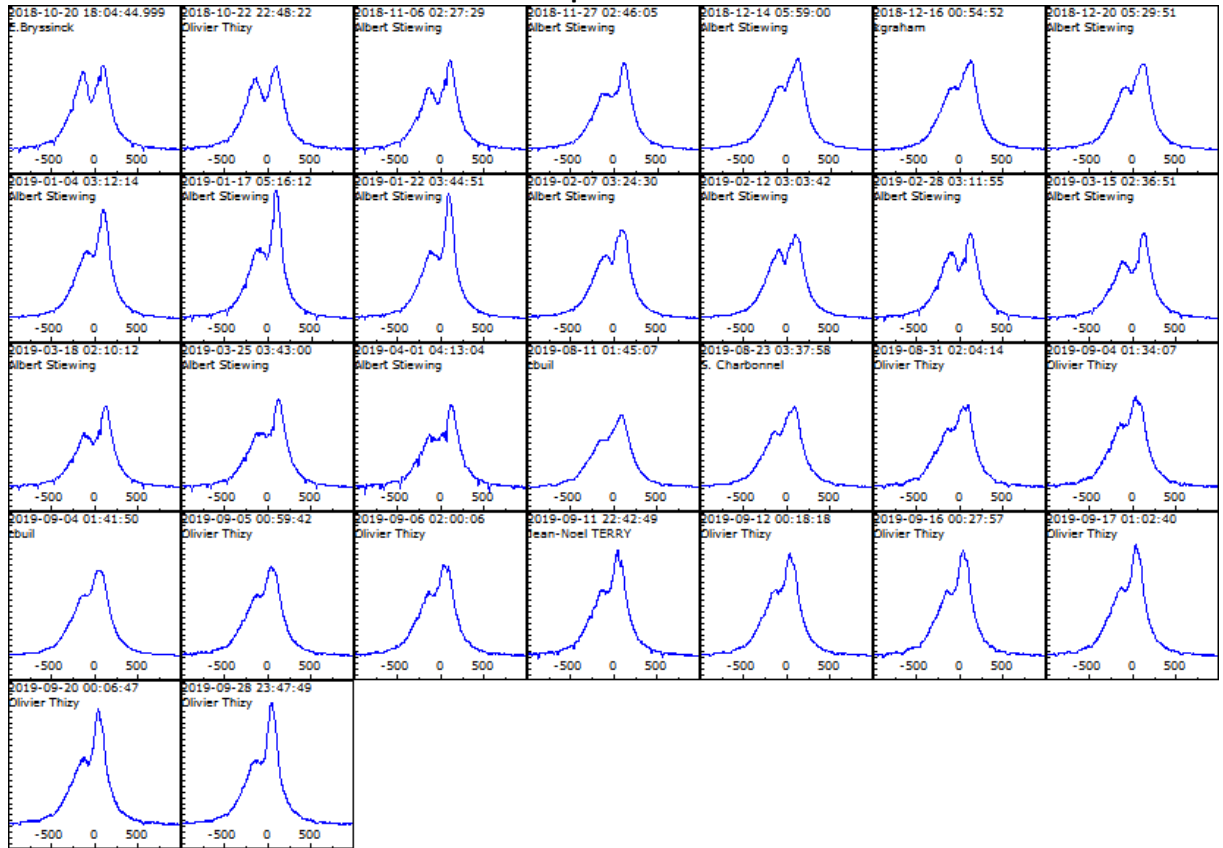
### V2113 Cyg



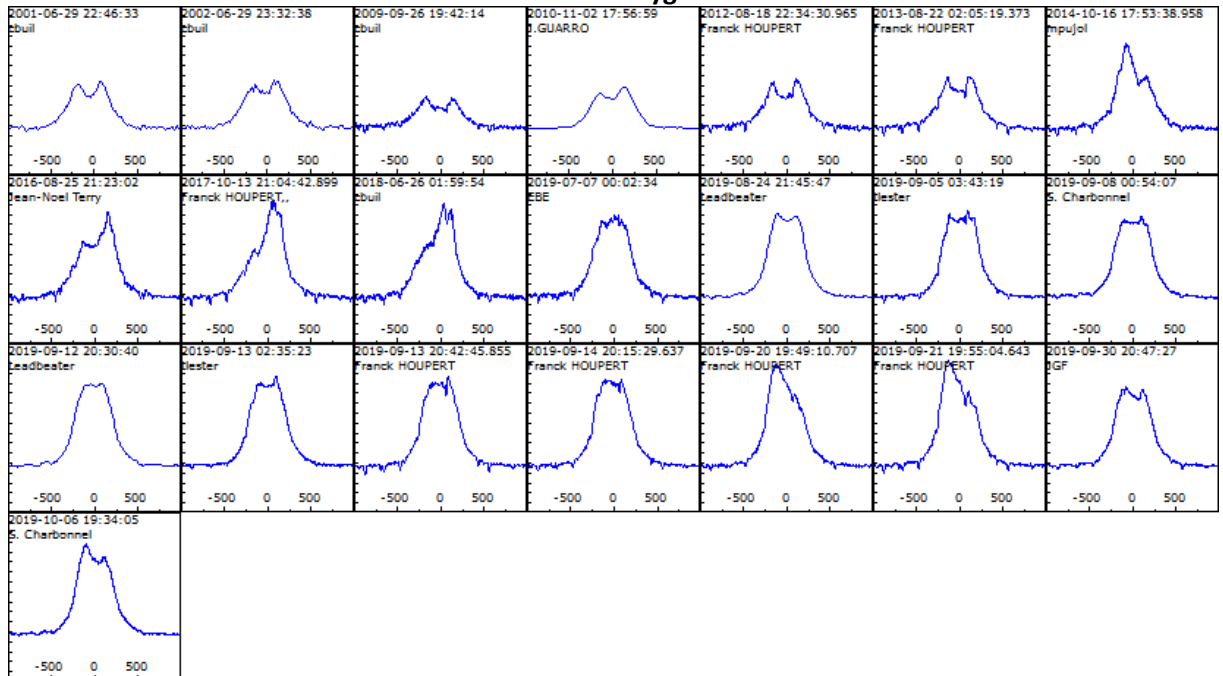
### ups Cyg



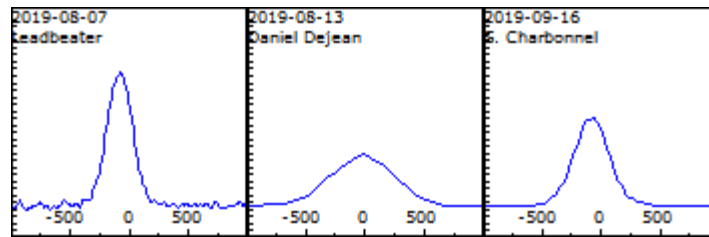
### phi Per



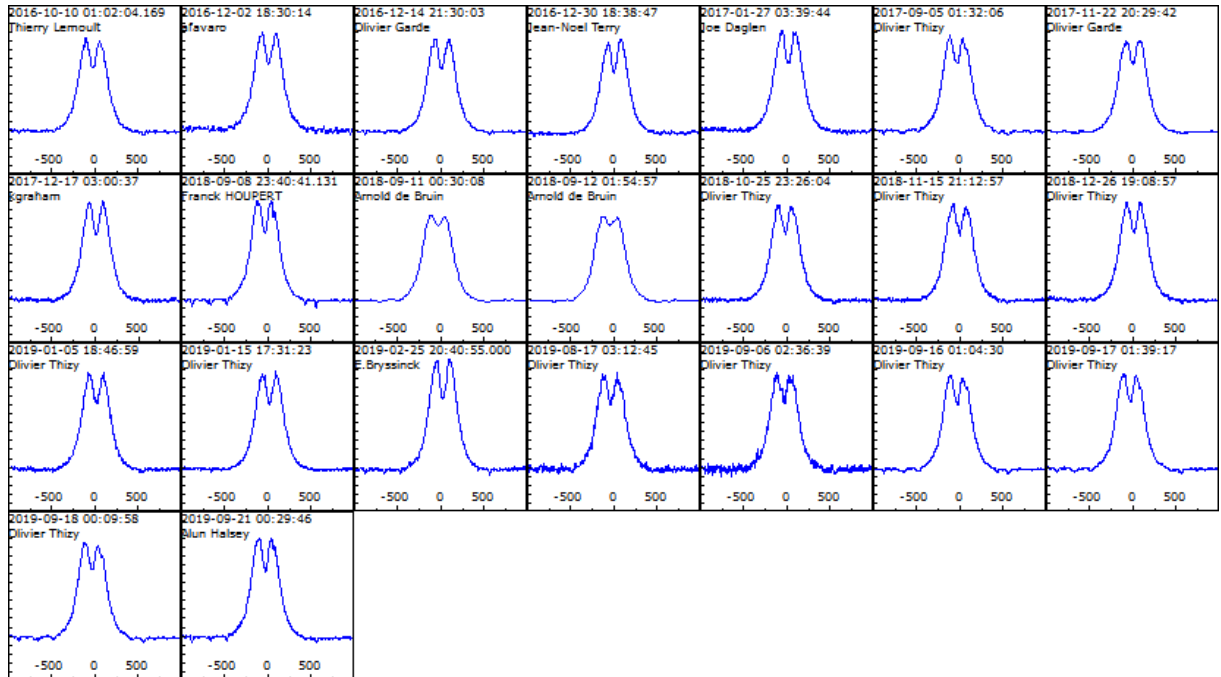
### V2162 Cyg



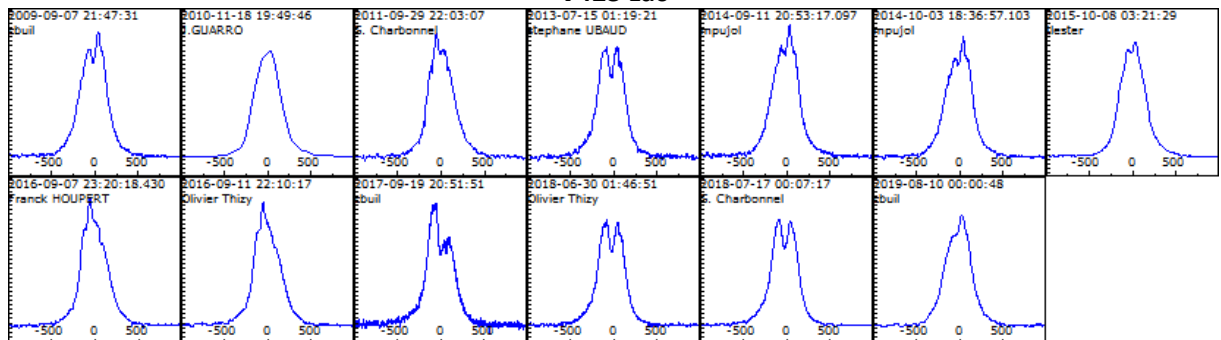
### EM\* MWC 1063



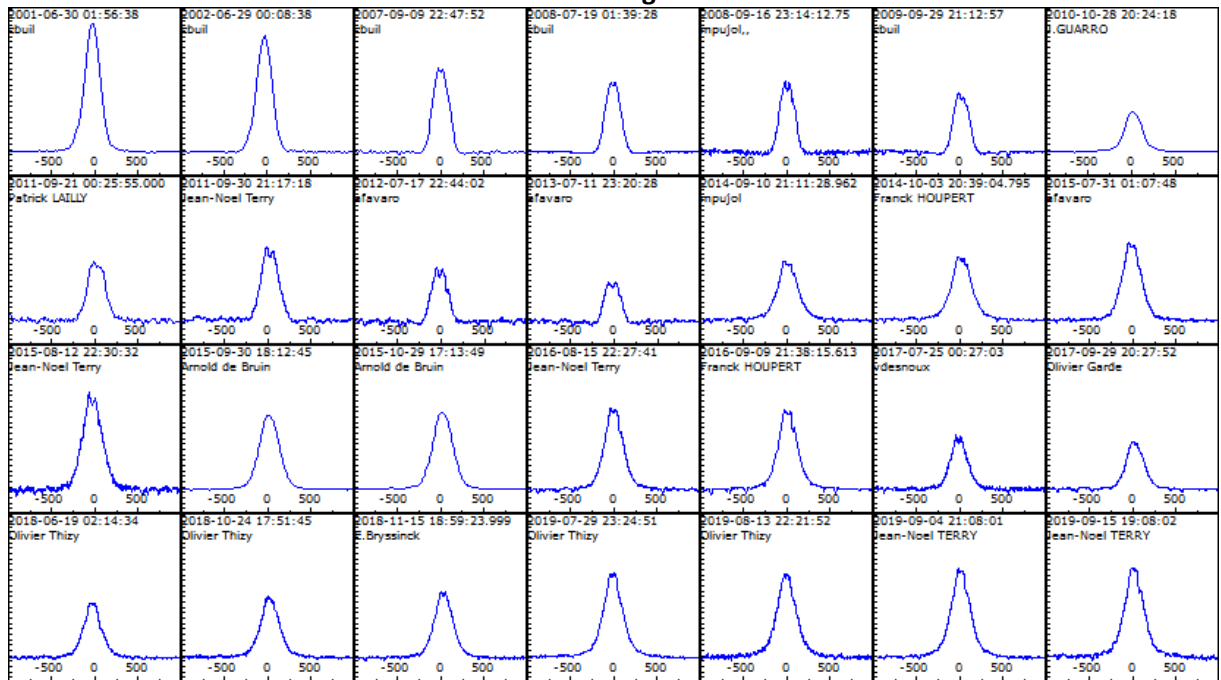
### HD 18552



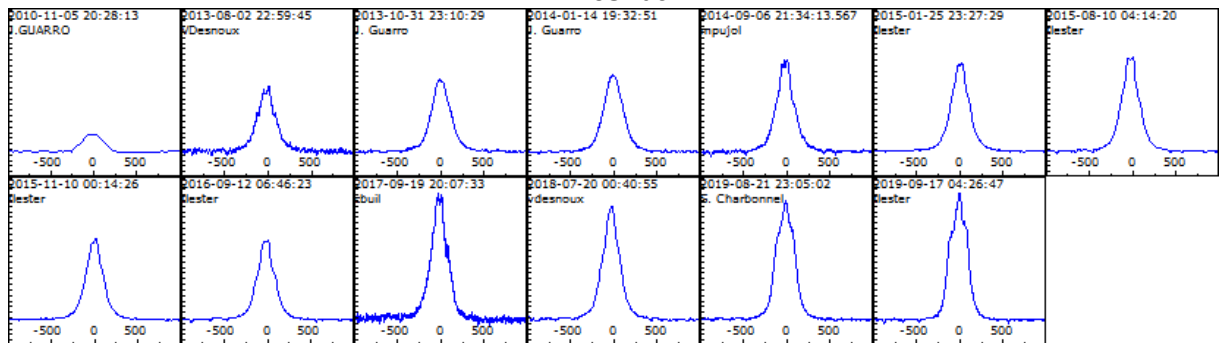
### V423 Lac



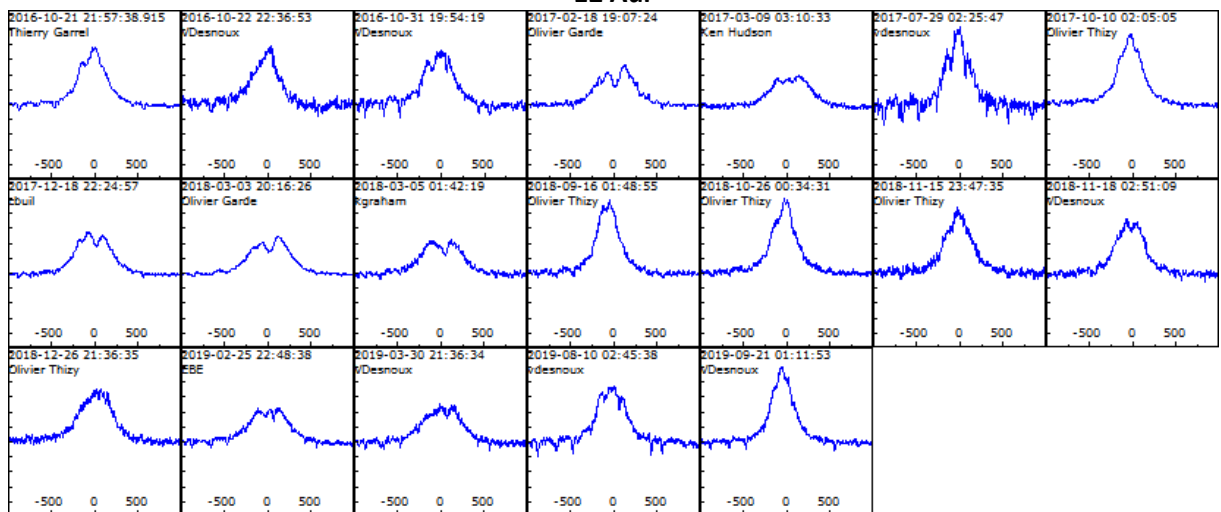
### NT Peg



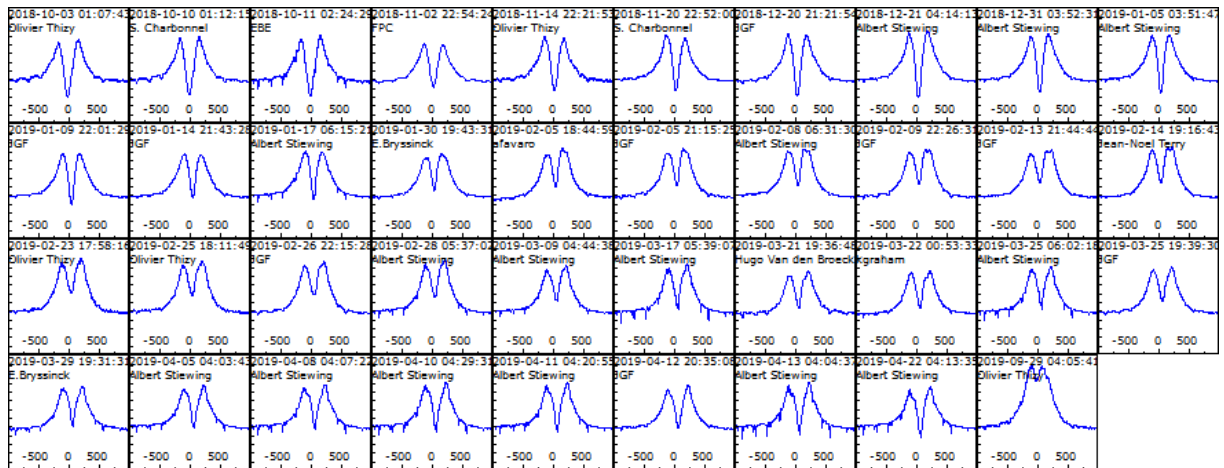
### V408 Lac



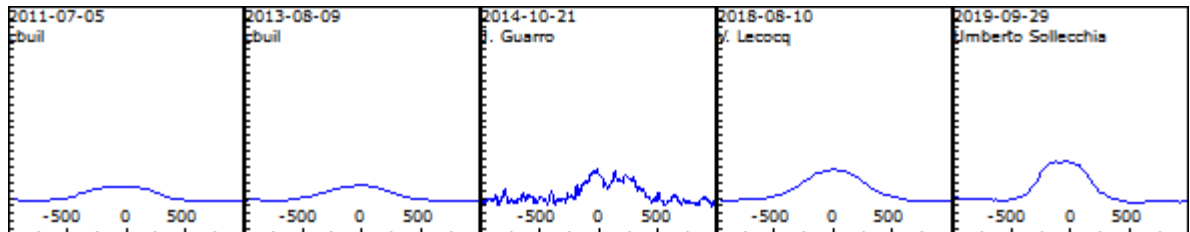
### 12 Aur



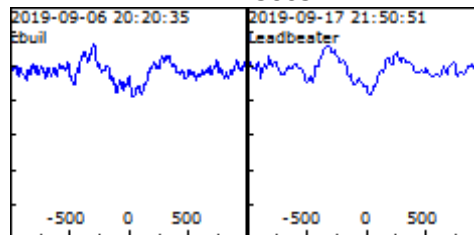
### zet Tau



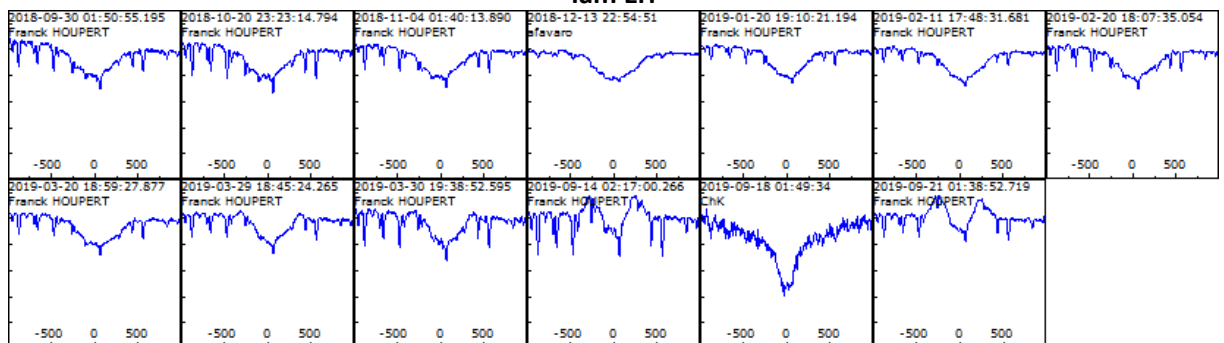
### V397 Lac



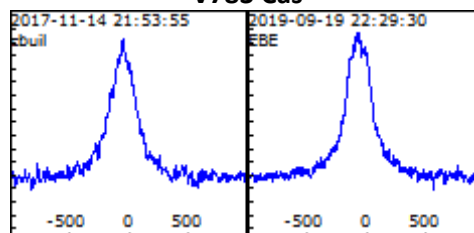
### HD 215605



### Iam Eri

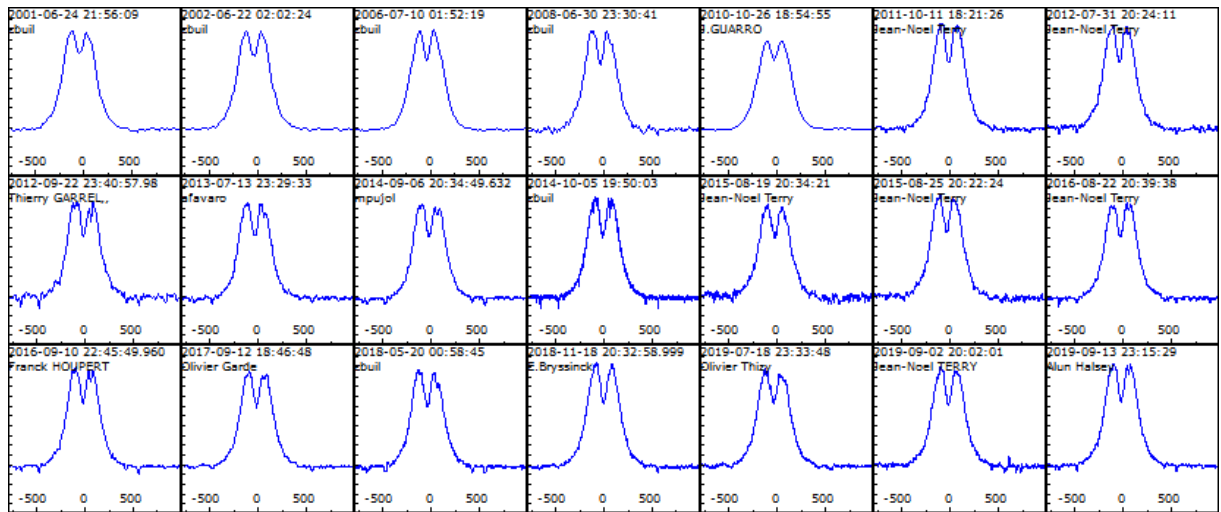


### V783 Cas

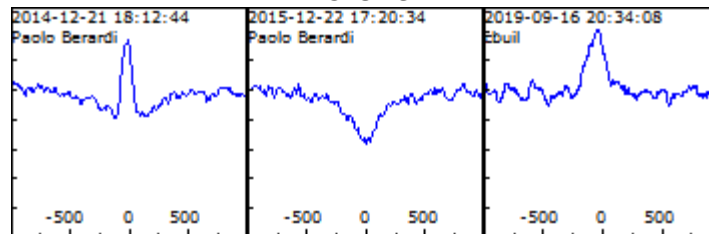




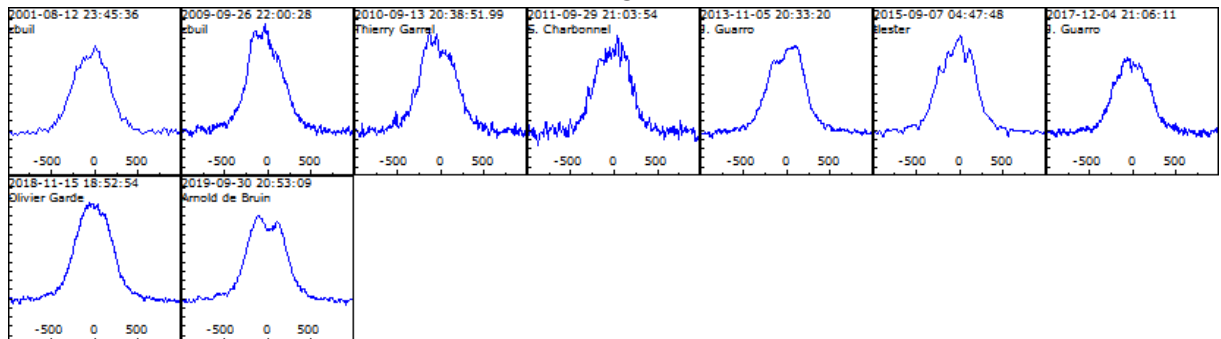
### HD 199218



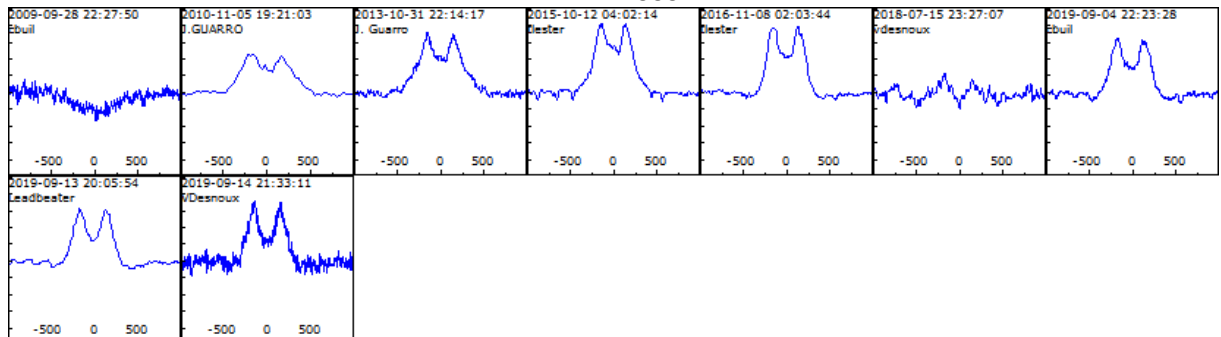
### V548 Per



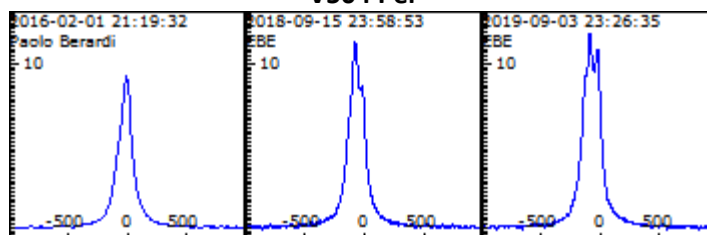
### HD 215227



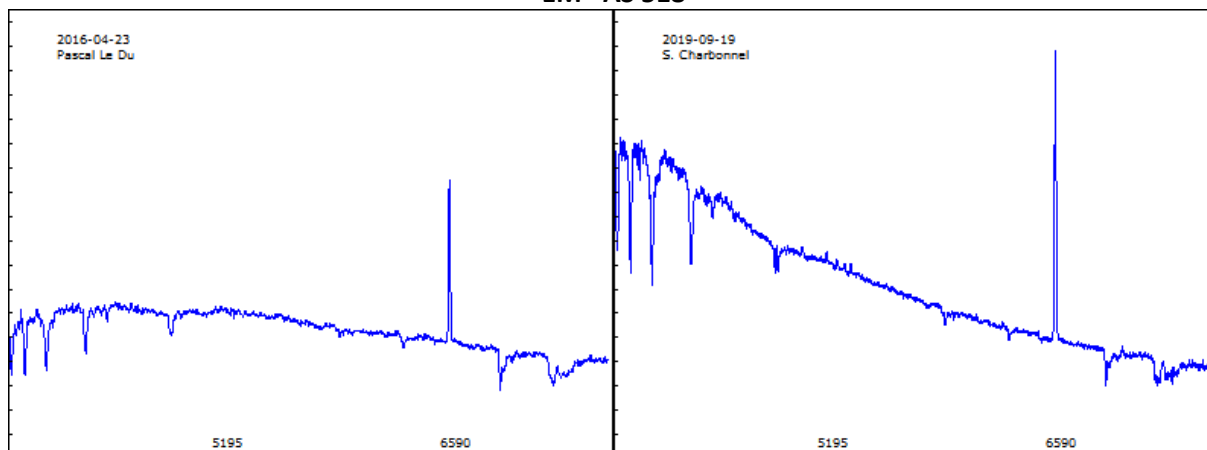
### HD 212666



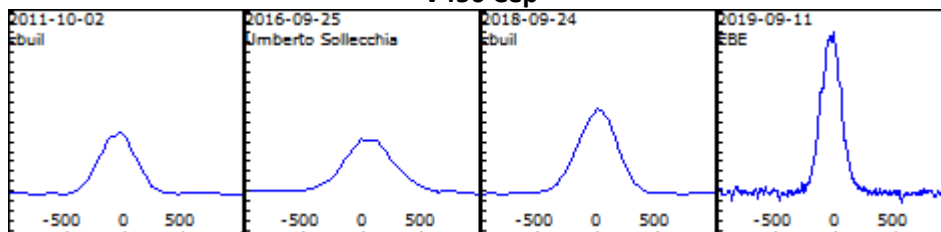
### V504 Per



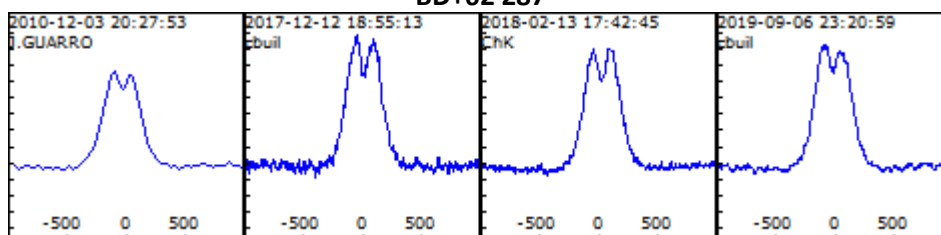
### EM\* AS 518



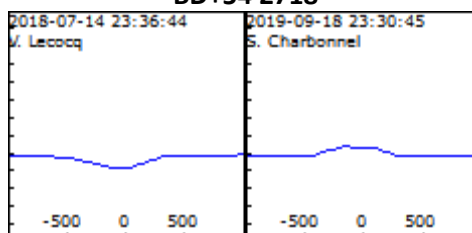
### V450 Cep



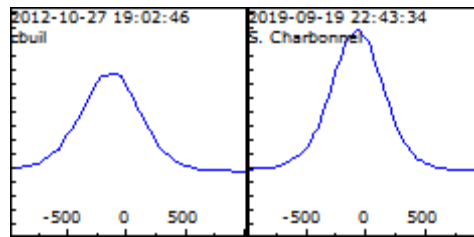
### BD+62 287



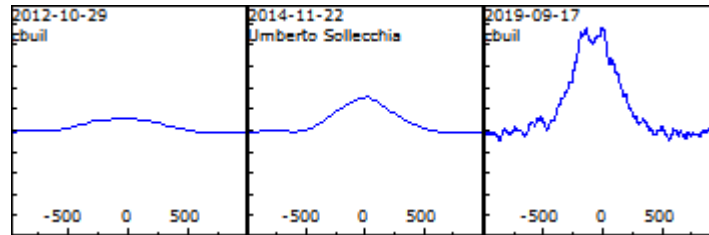
### BD+54 2718



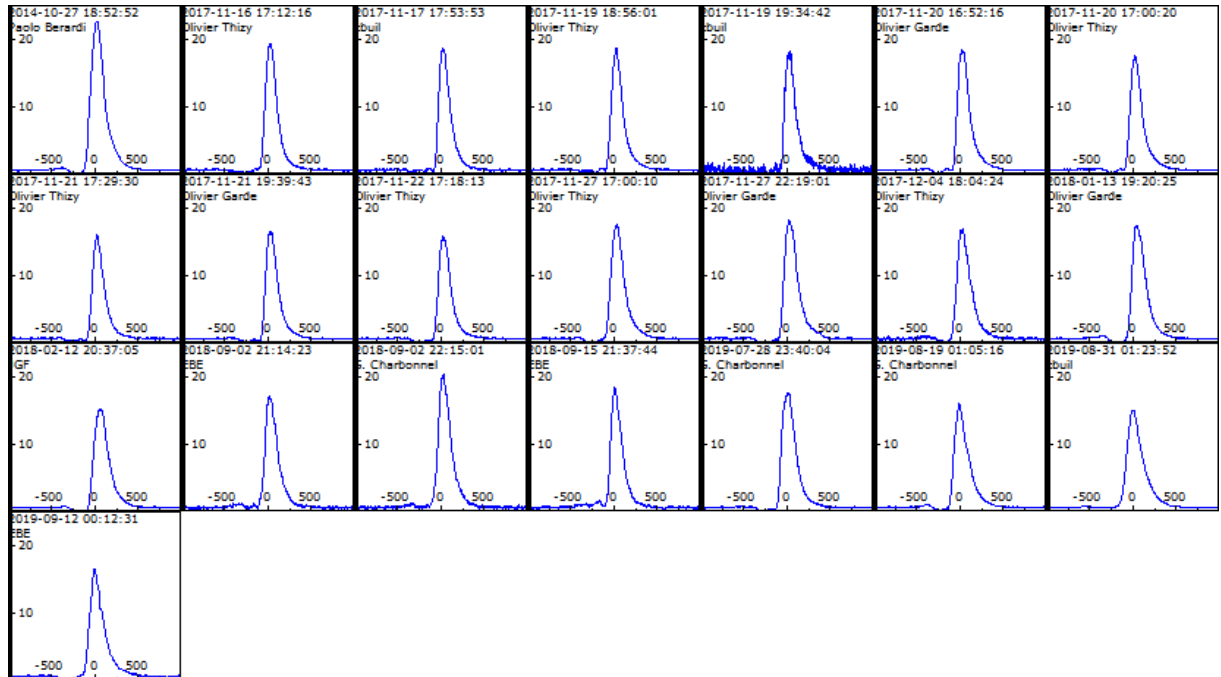
### BD+62 1



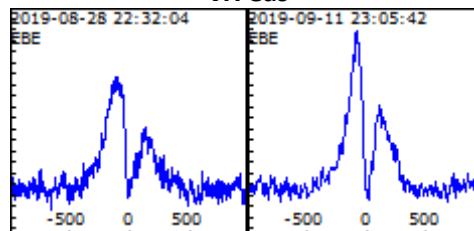
### BD+56 582



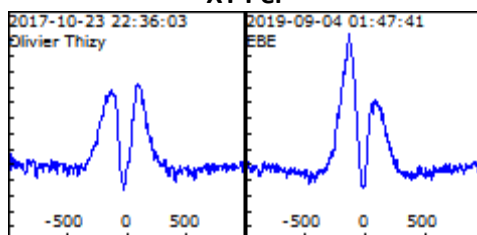
### V594 Cas



### VX Cas

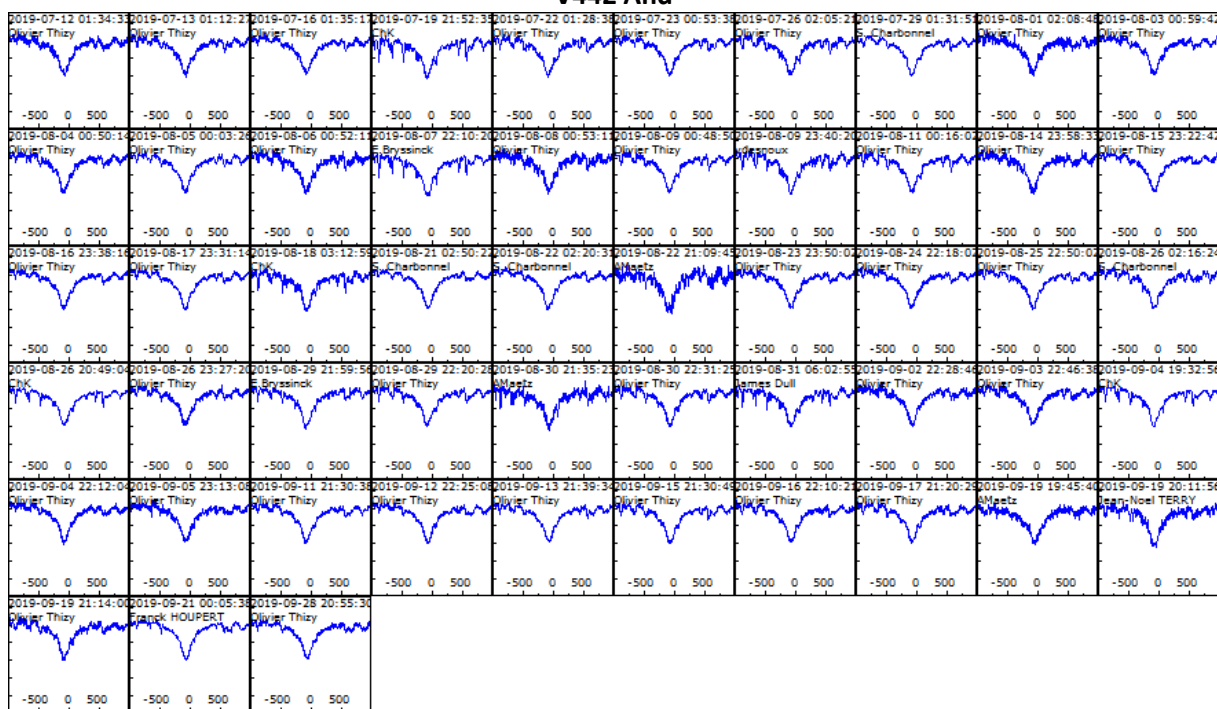


## XY Per

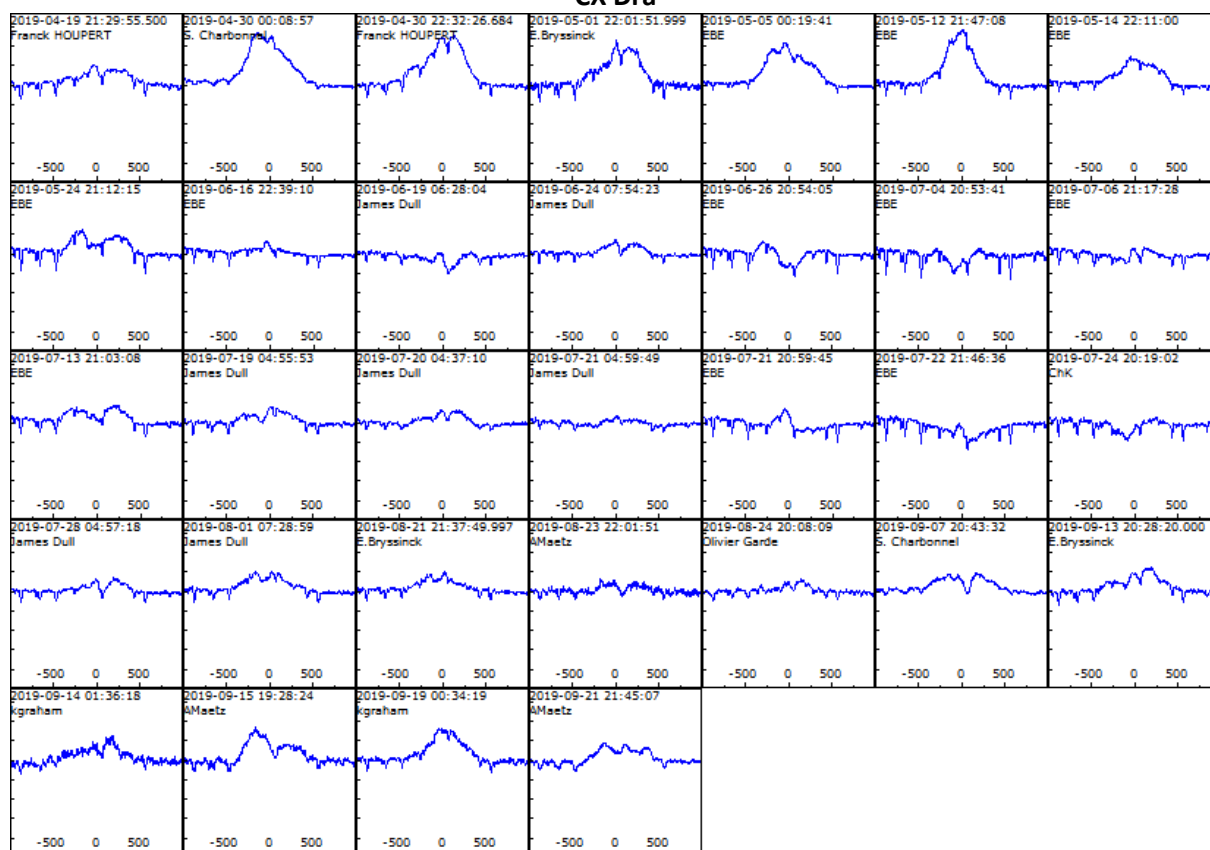


## Moderate evolution of H-alpha line

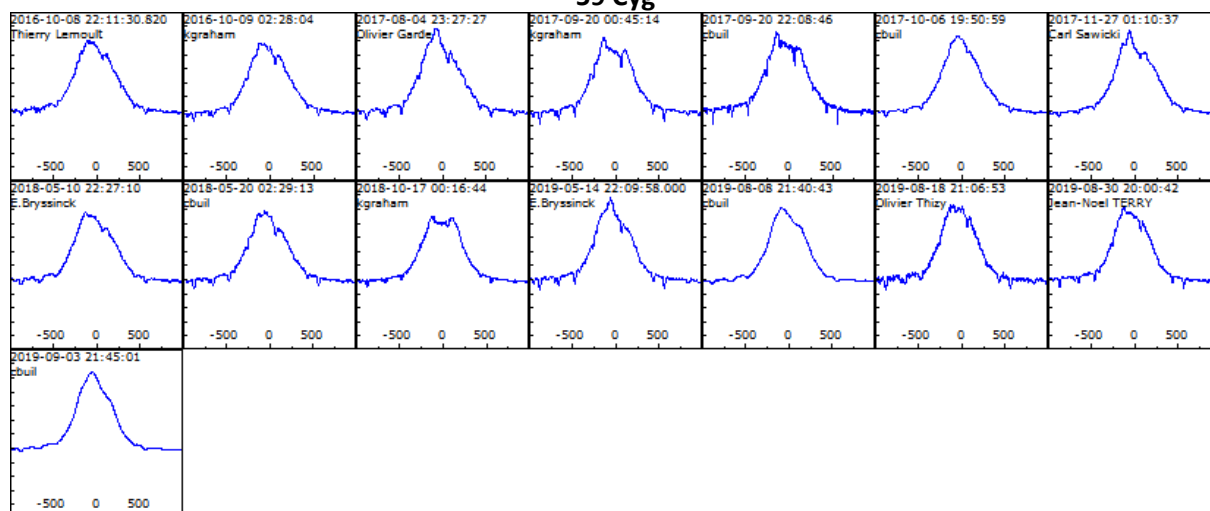
### V442 And



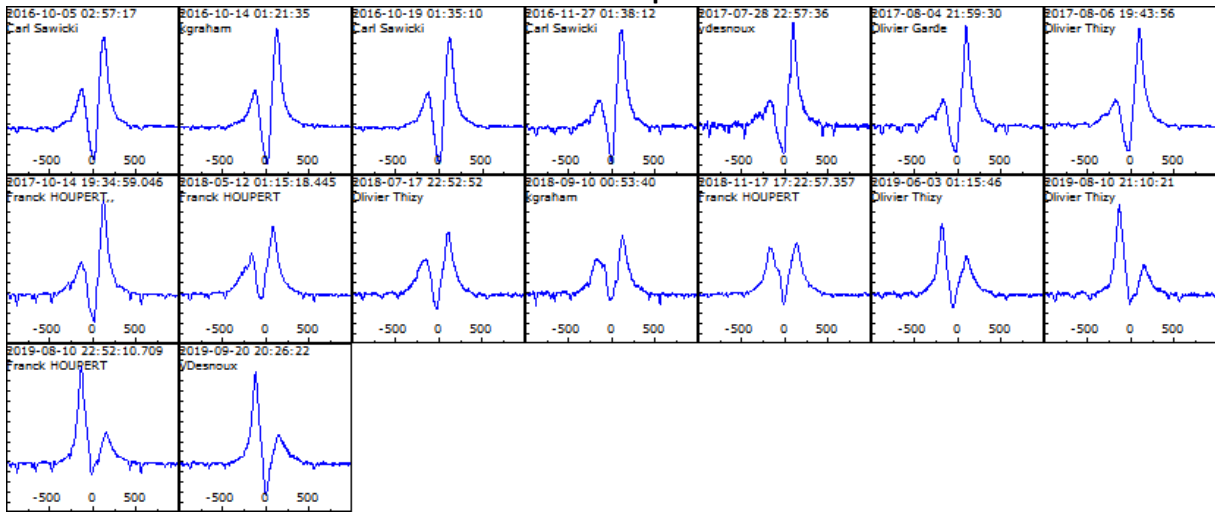
## CX Dra



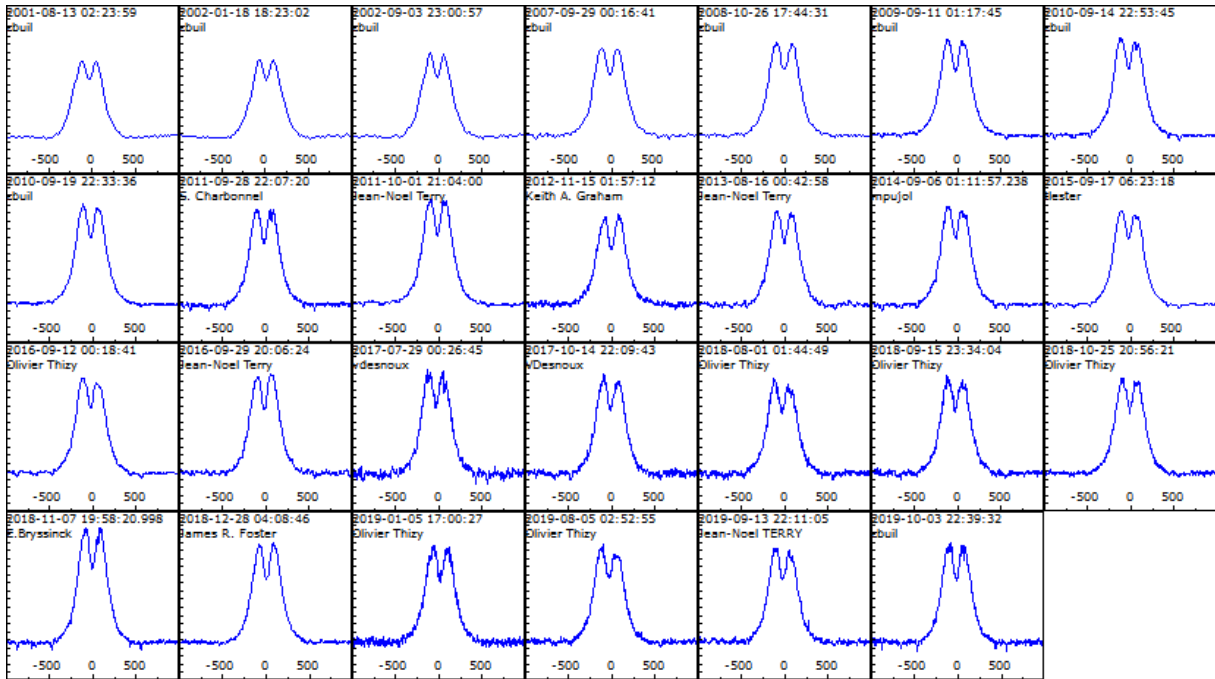
## 59 Cyg



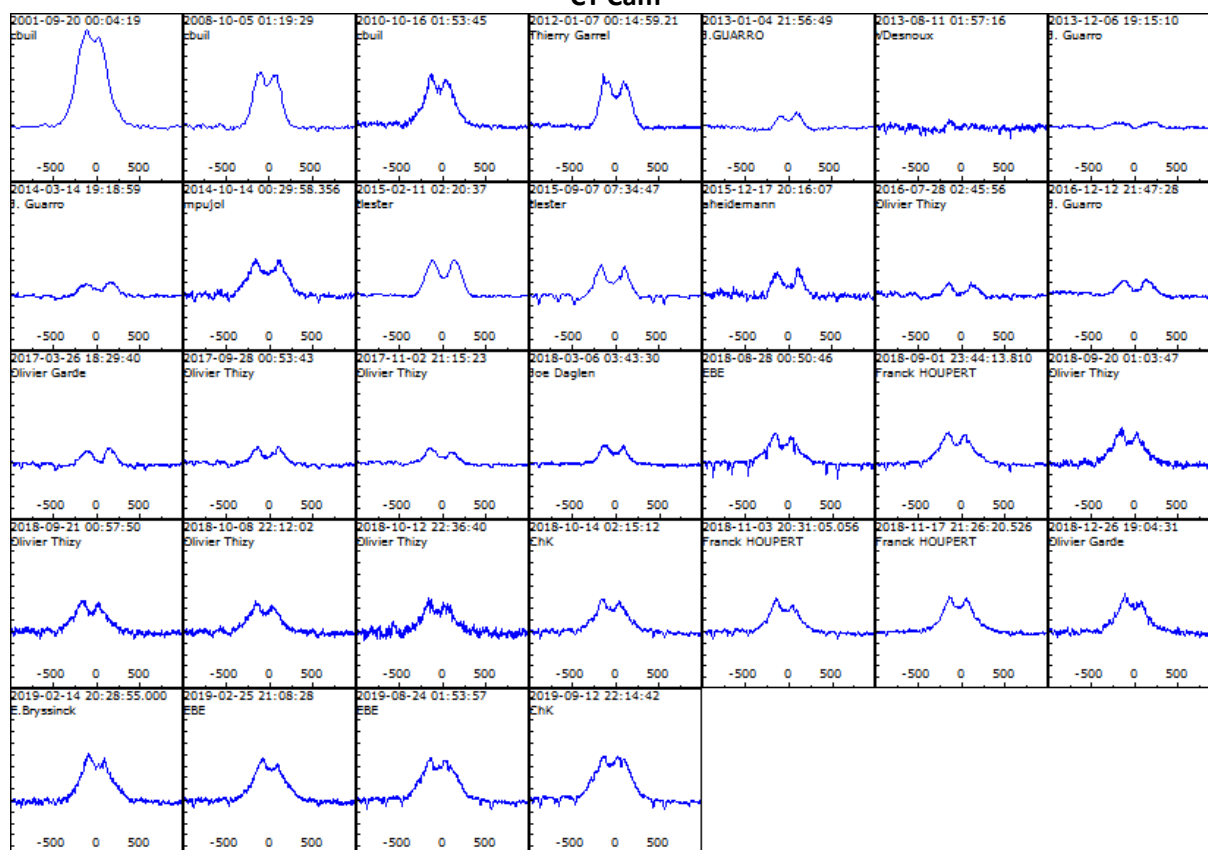
### V923 Aql



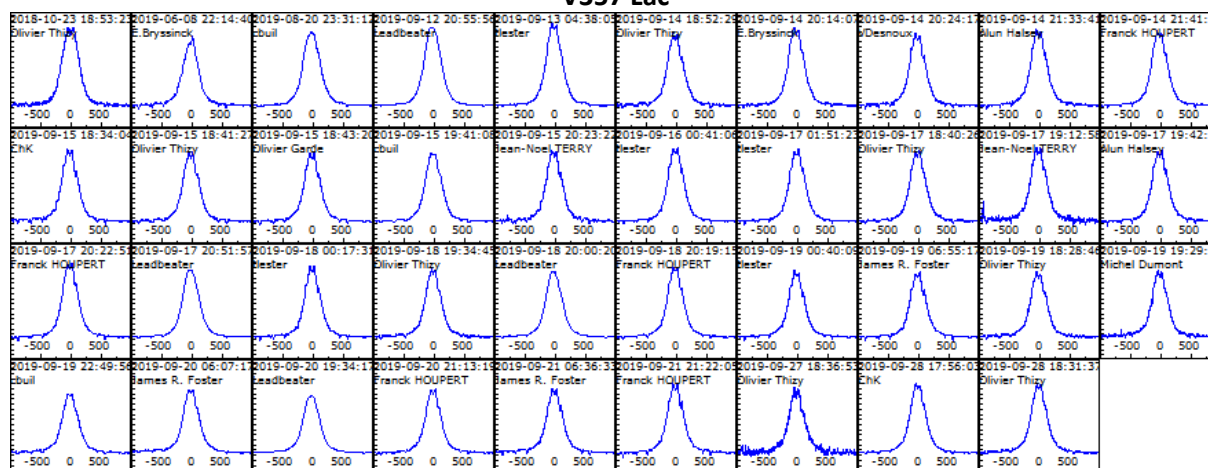
### HD 9709



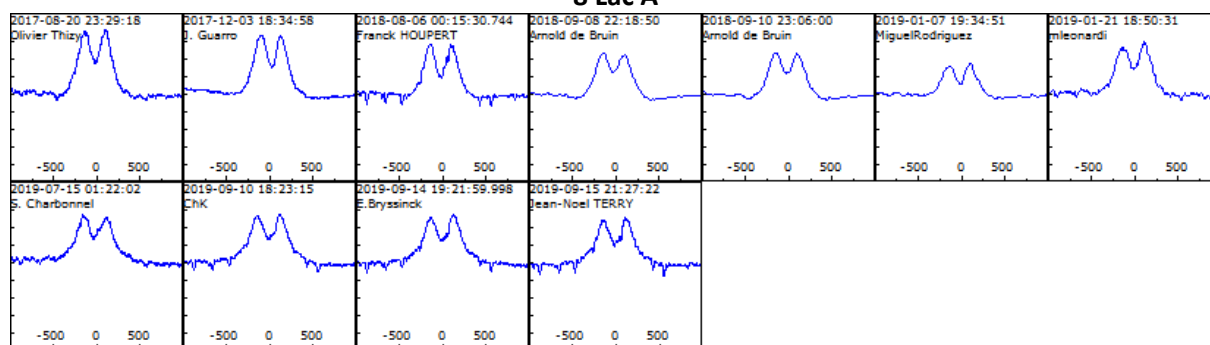
### CT Cam



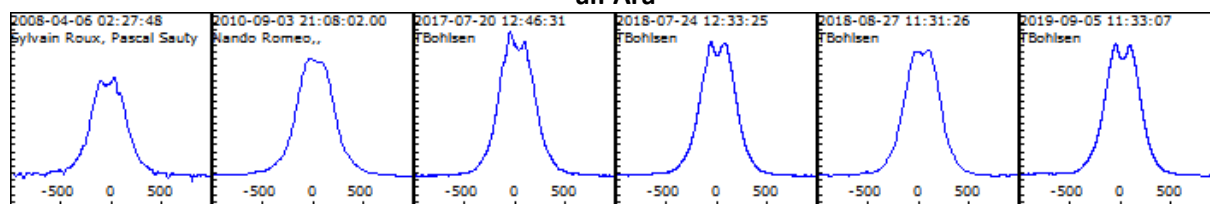
### V357 Lac



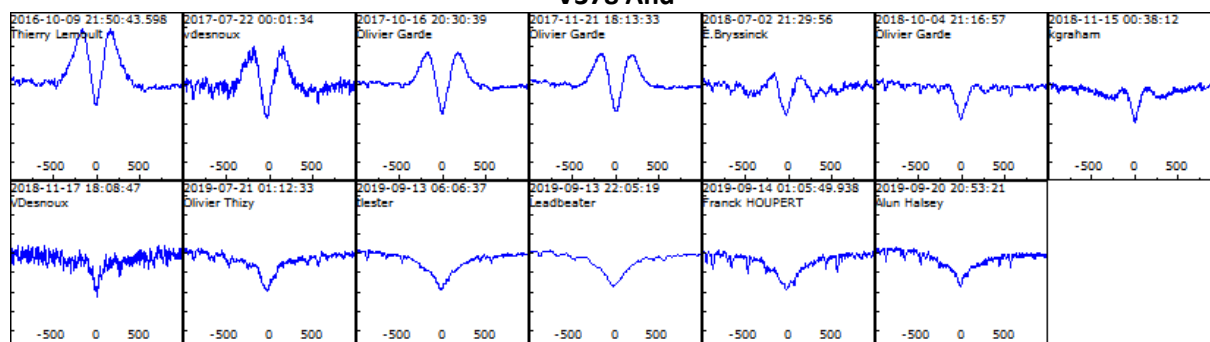
### 8 Lac A



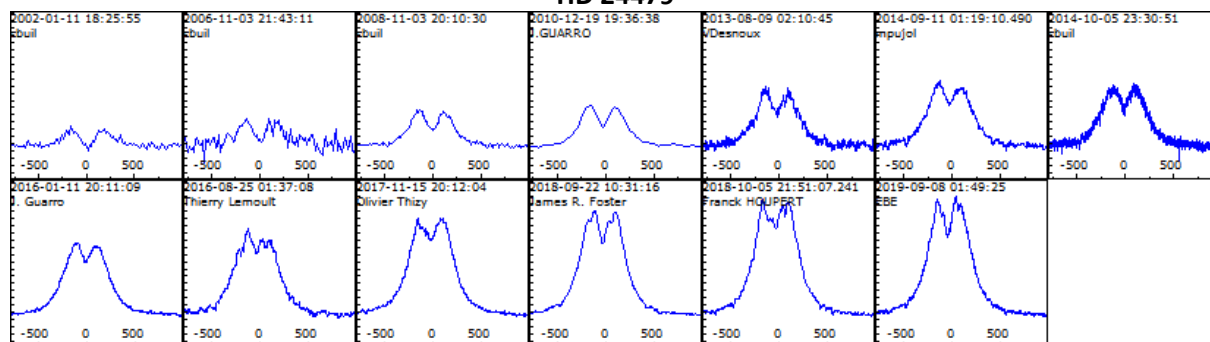
### alf Ara



### V378 And

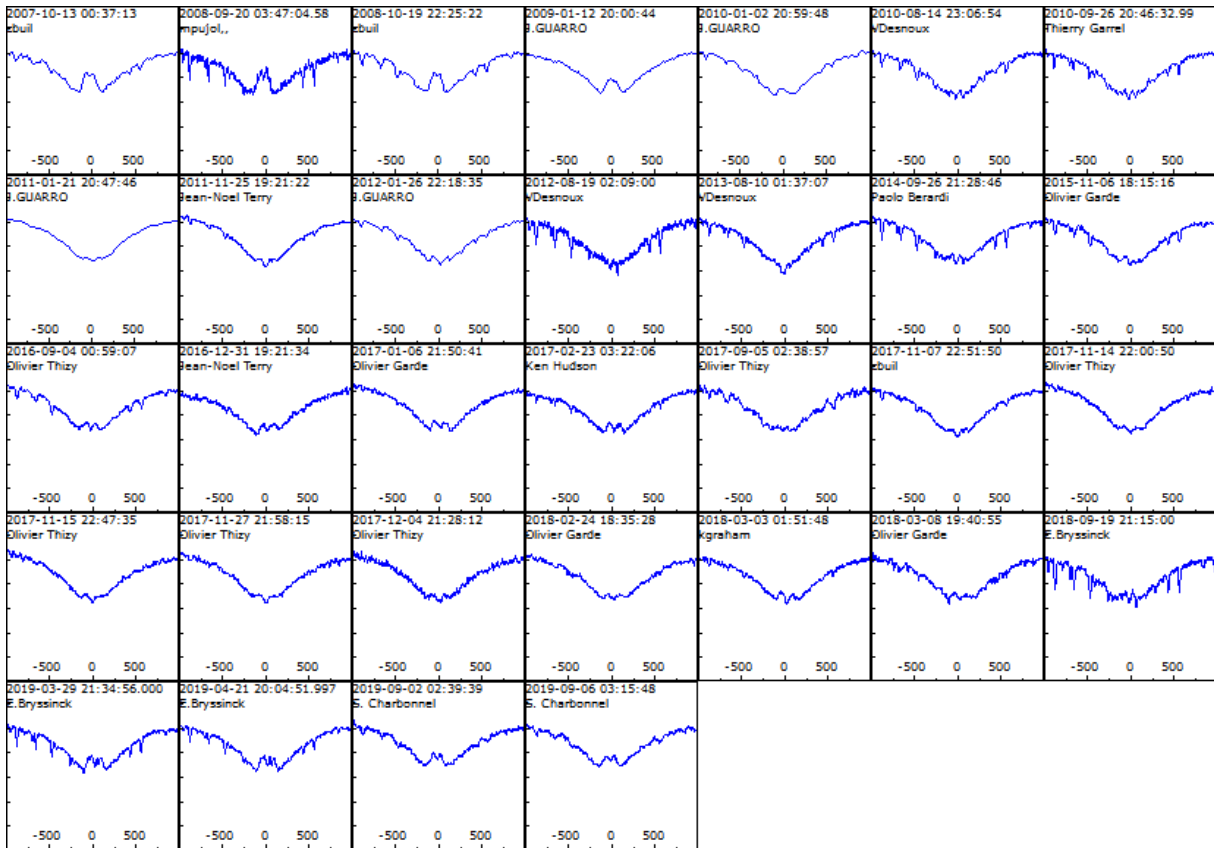


### HD 24479

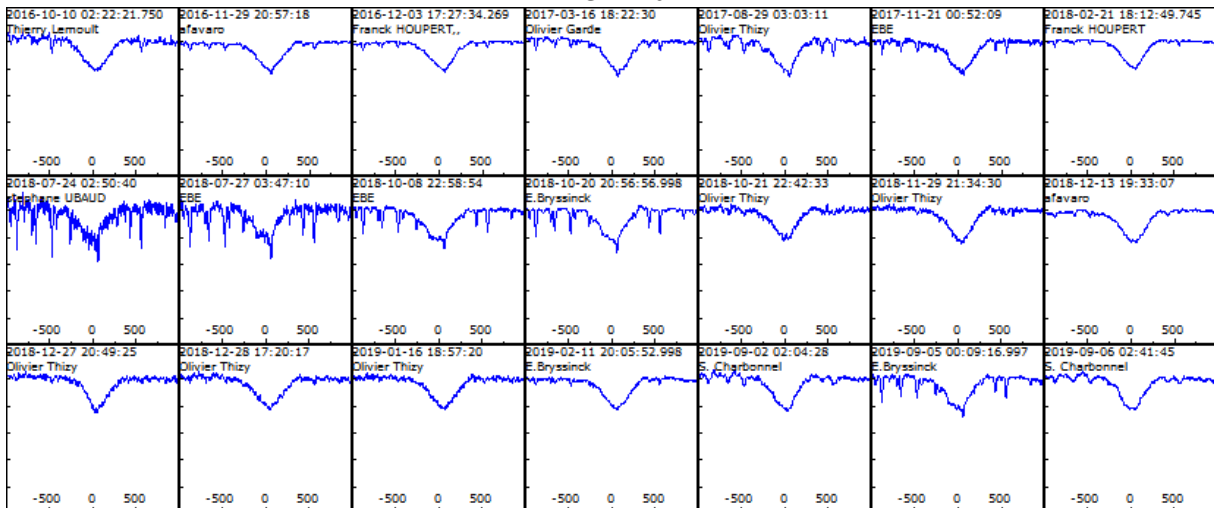




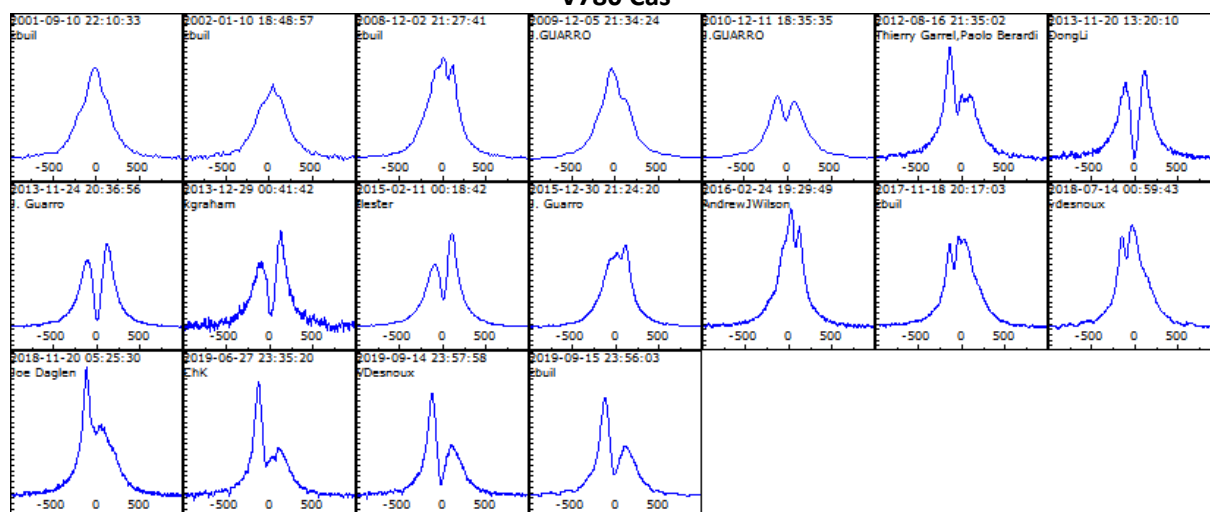
## HD 13669



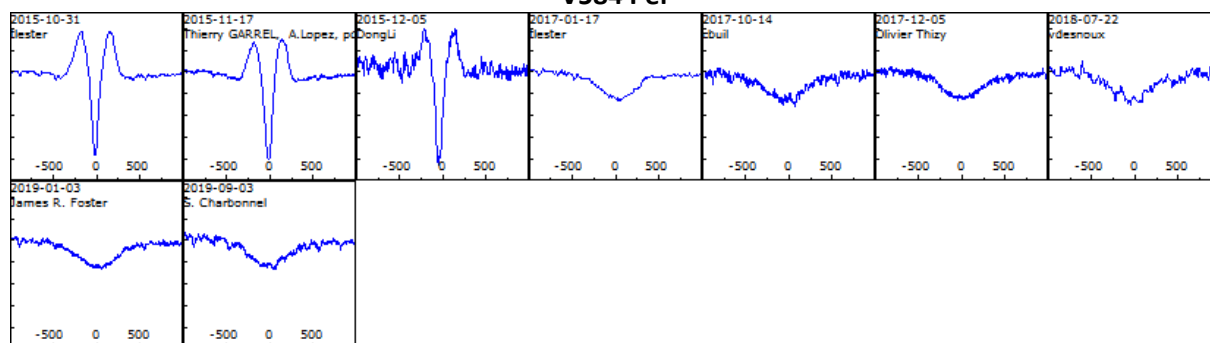
## Menkhib



### V780 Cas

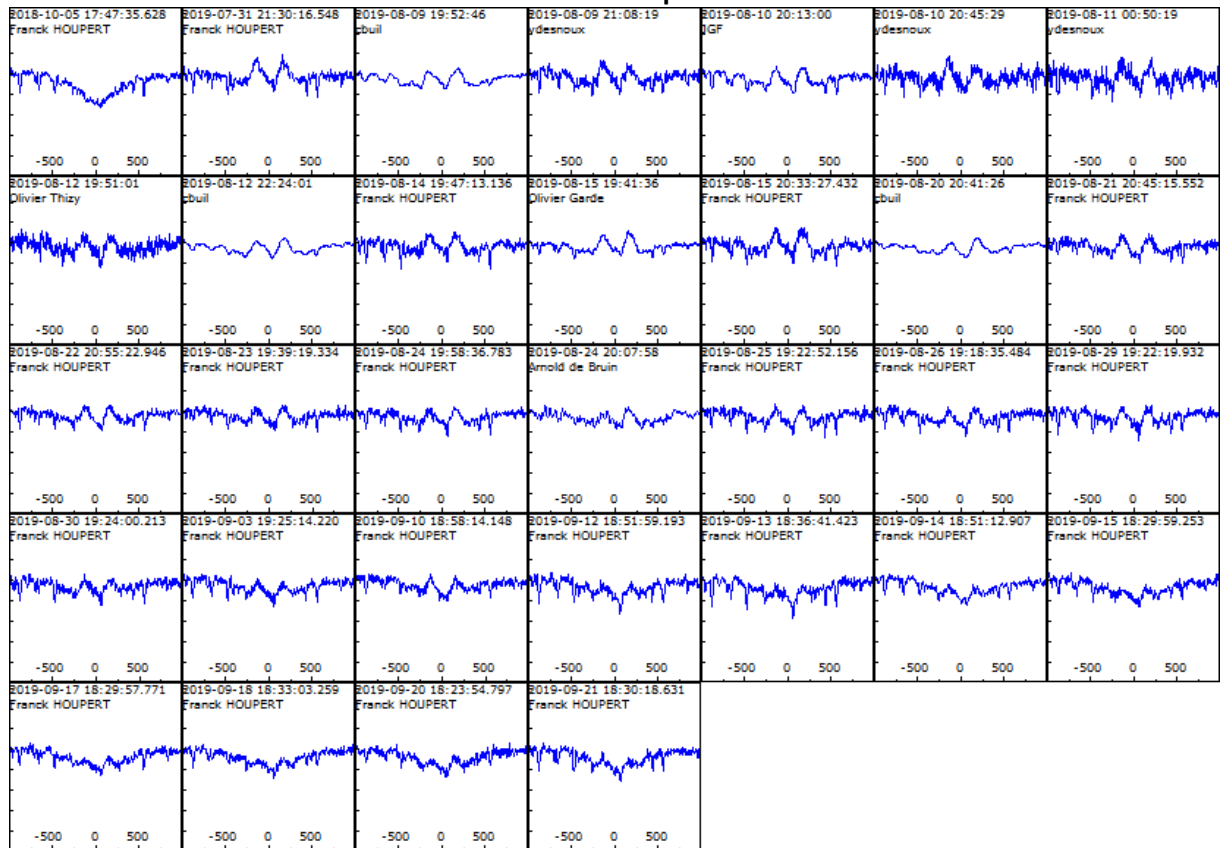


### V584 Per

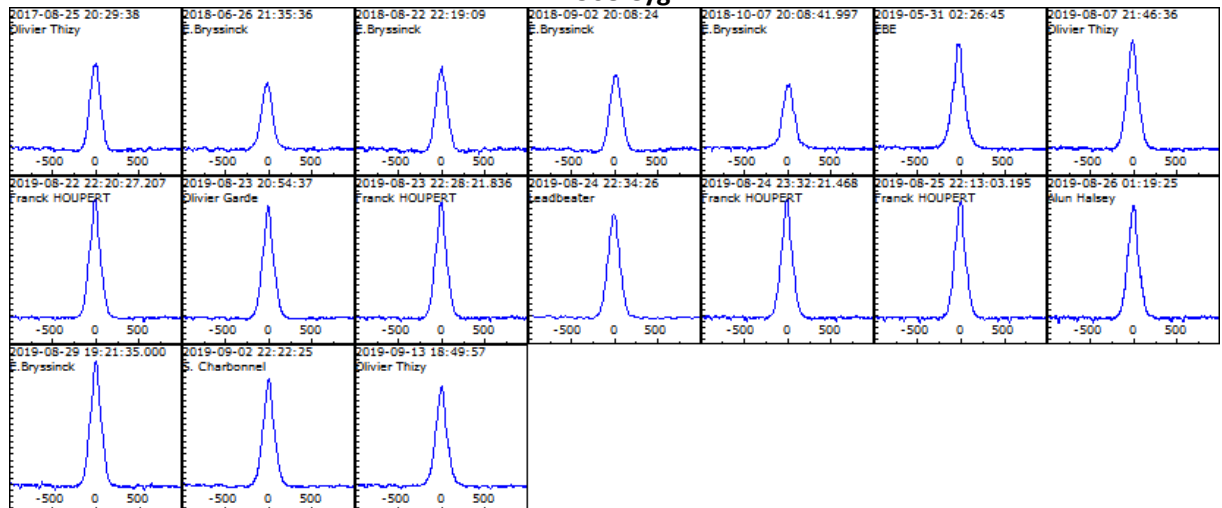


## Emission decrease of H-alpha line

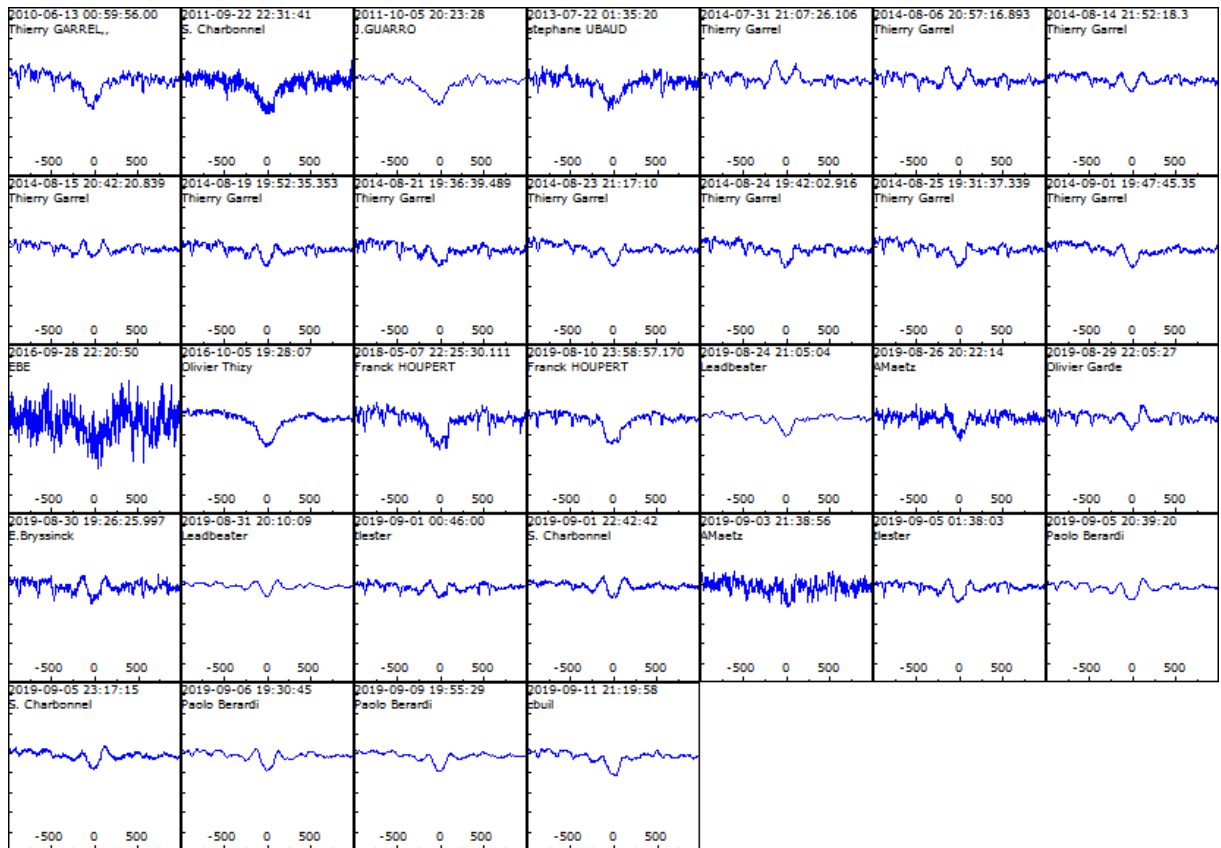
### V1448 Aql



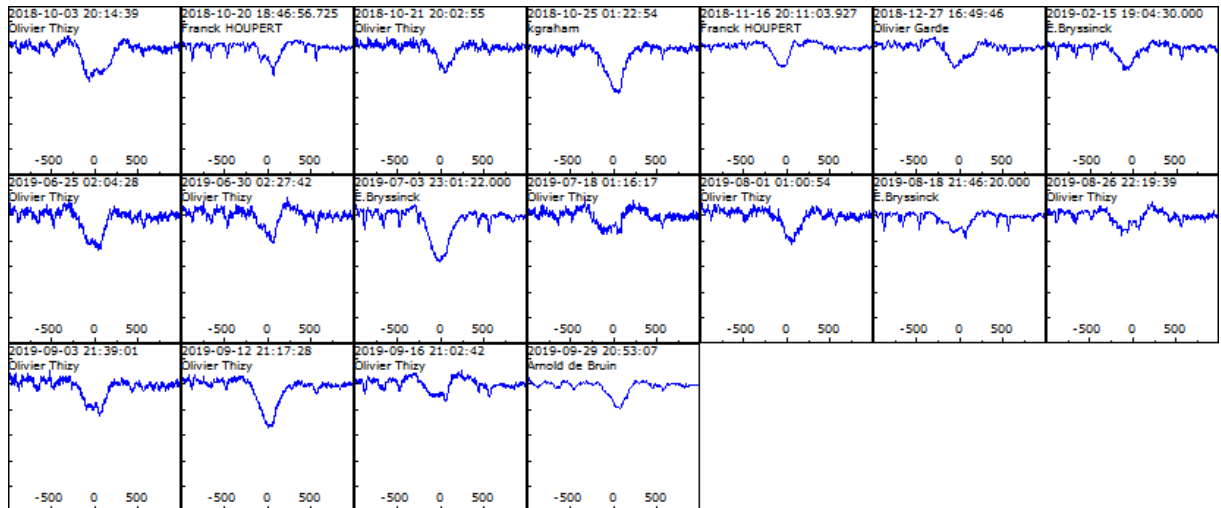
### V568 Cyg



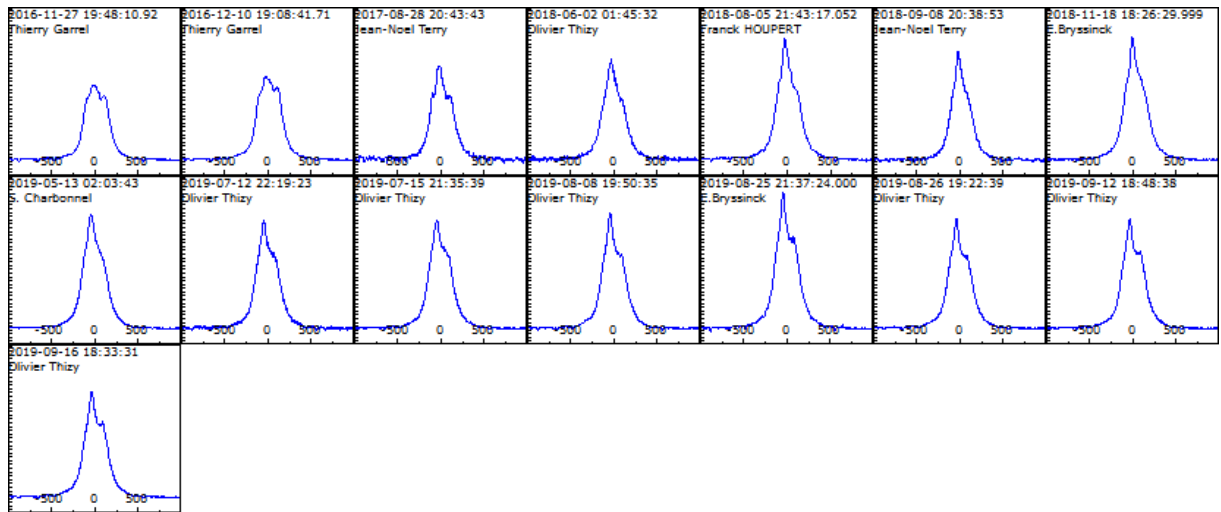
## HD 194779



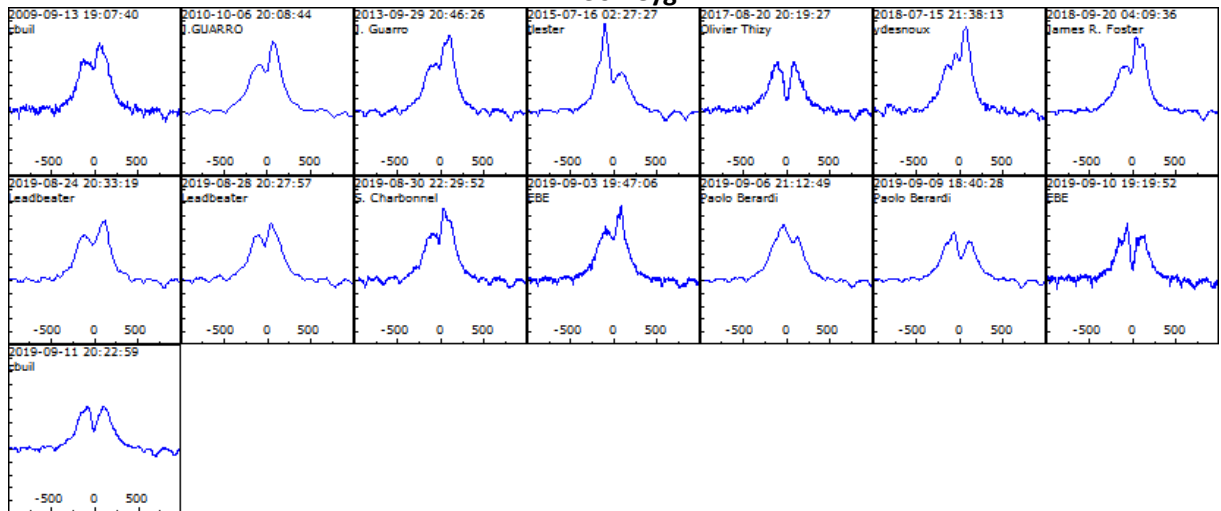
## 14 Lac



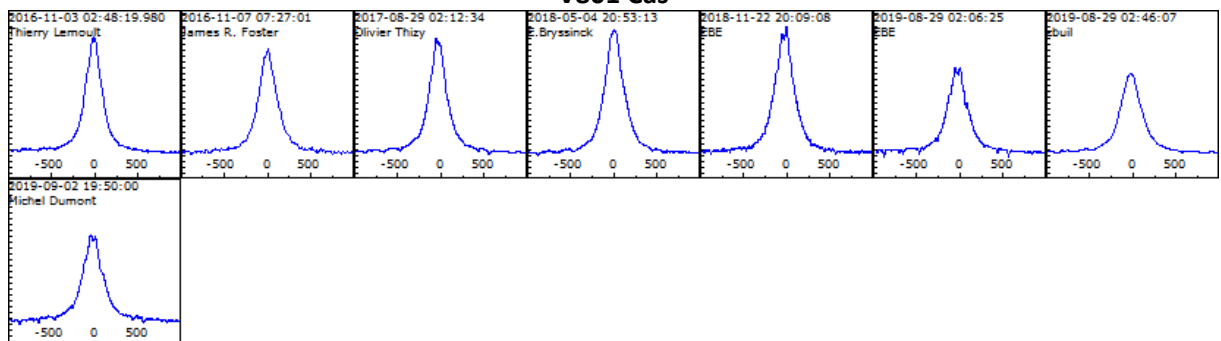
### HD 192445



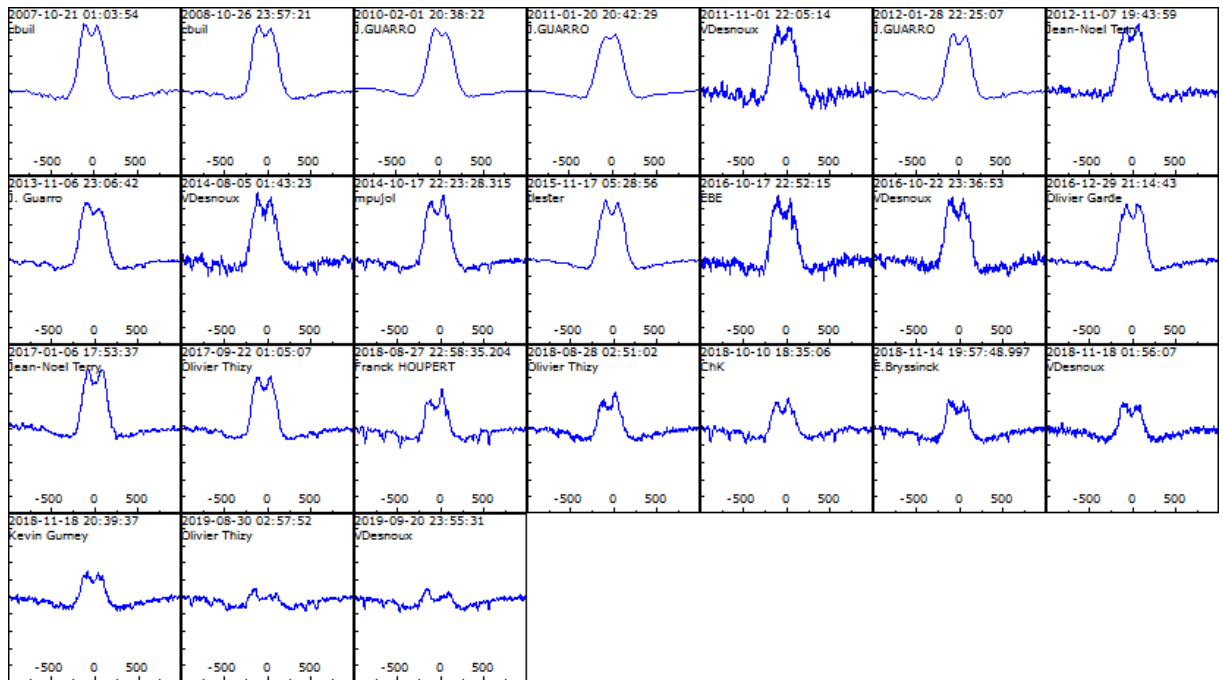
### V1362 Cyg



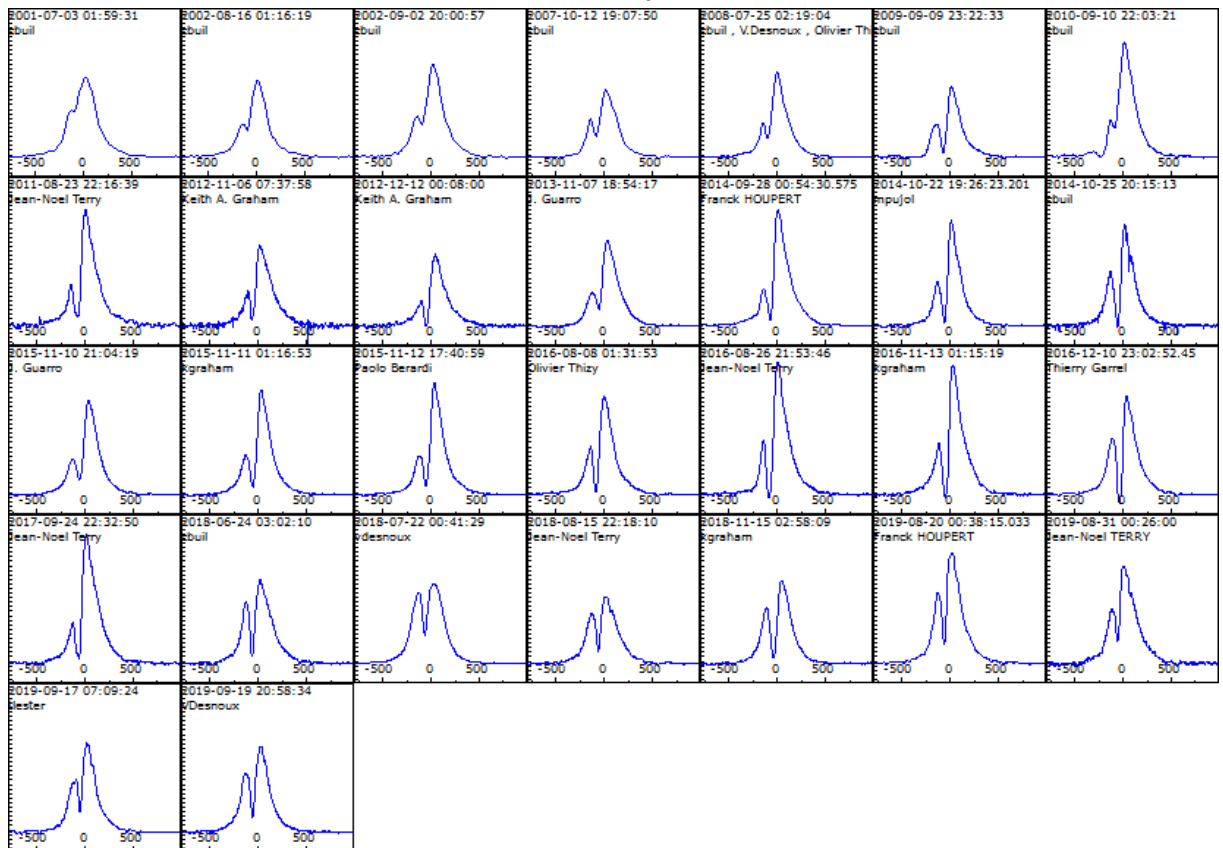
### V801 Cas



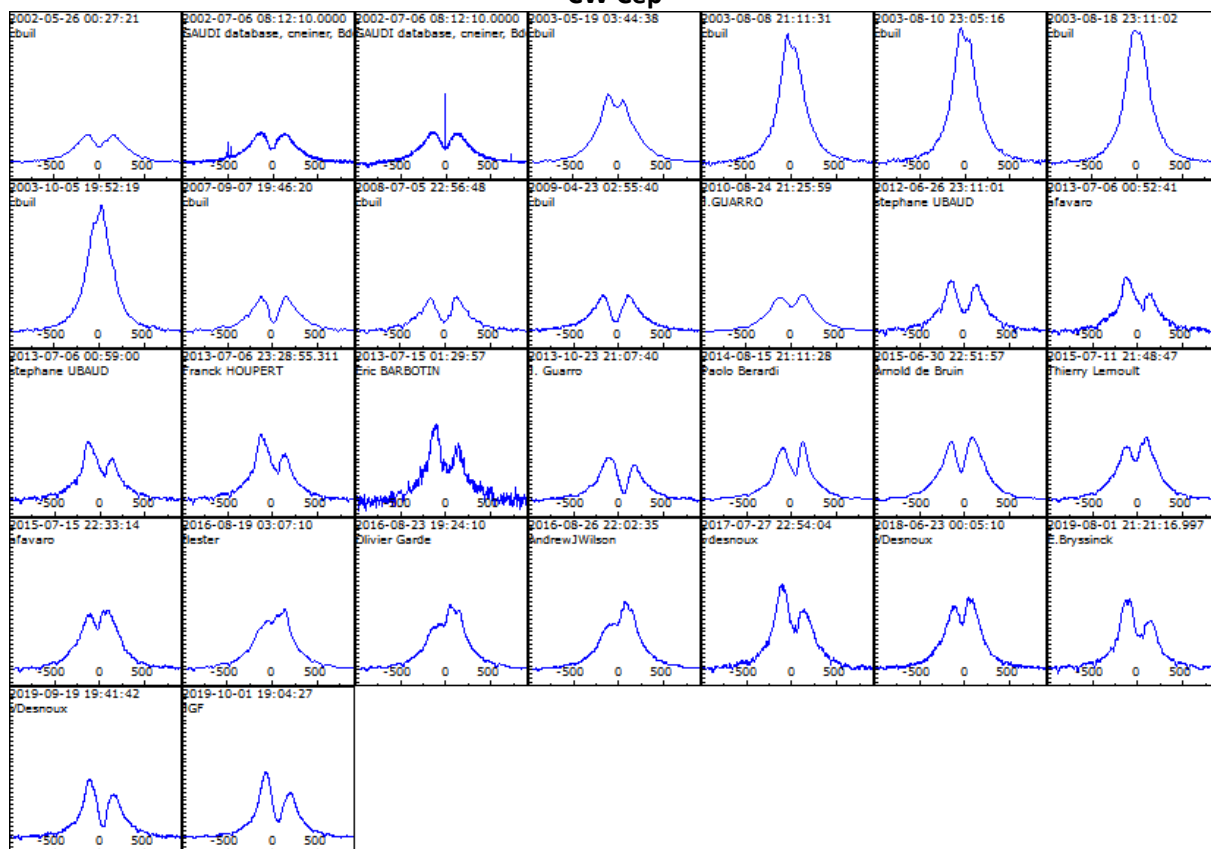
# HD 23552



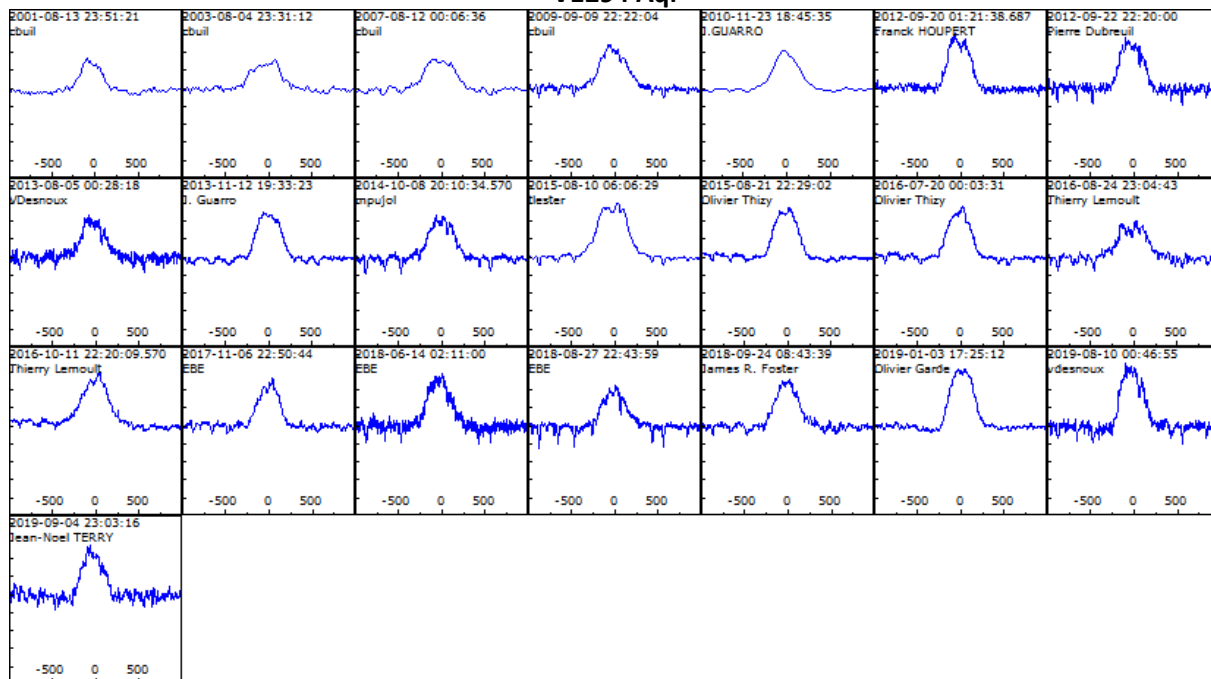
# KX And



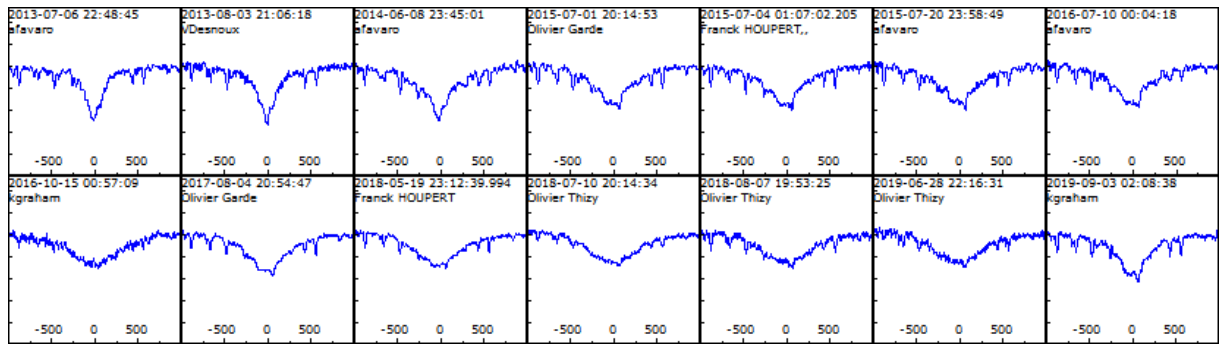
## CW Cep



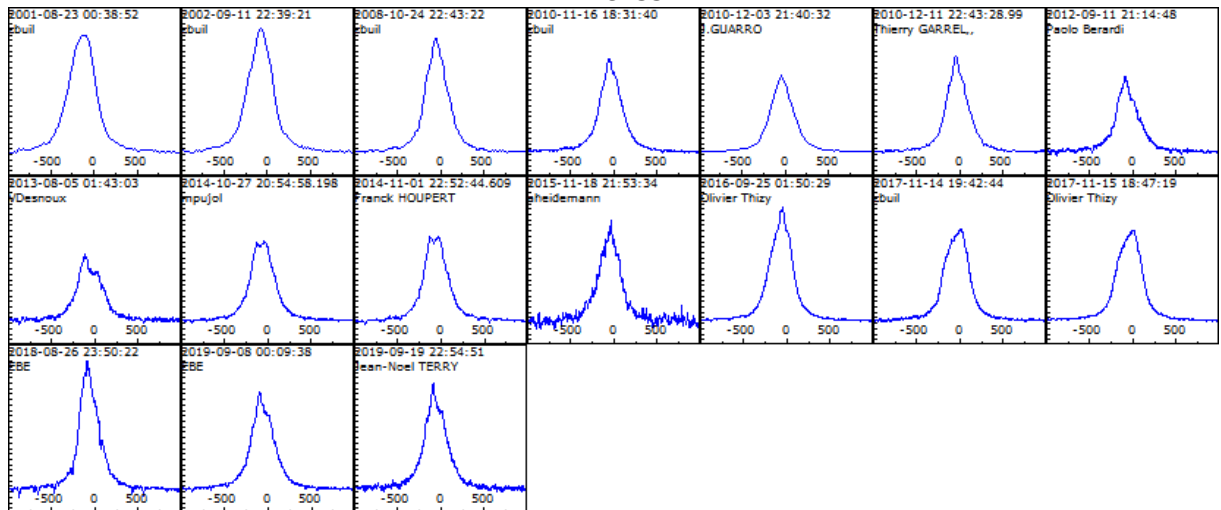
## V1294 Aql



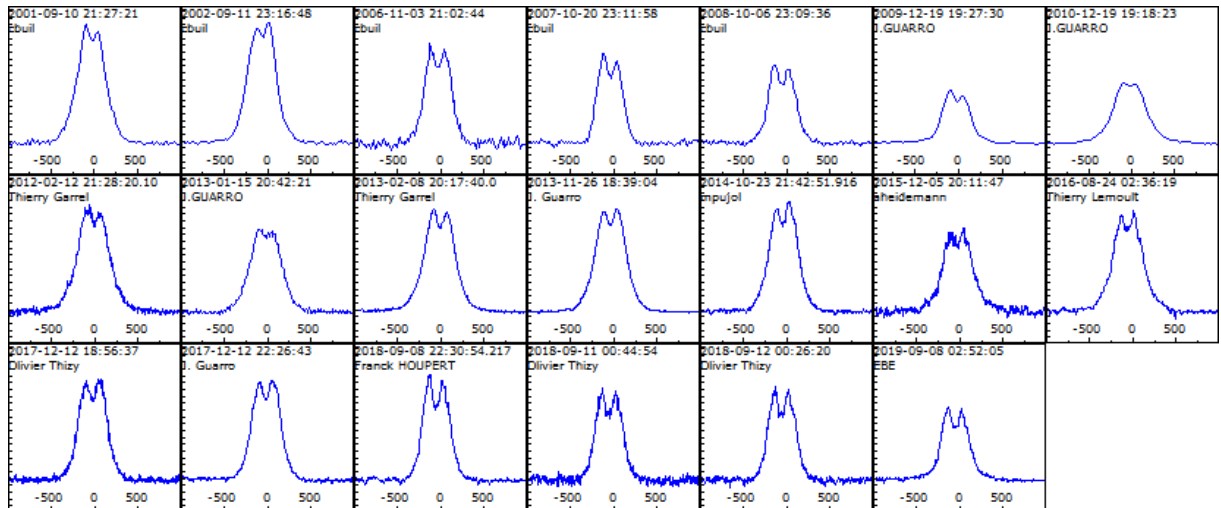
### 7 Vul



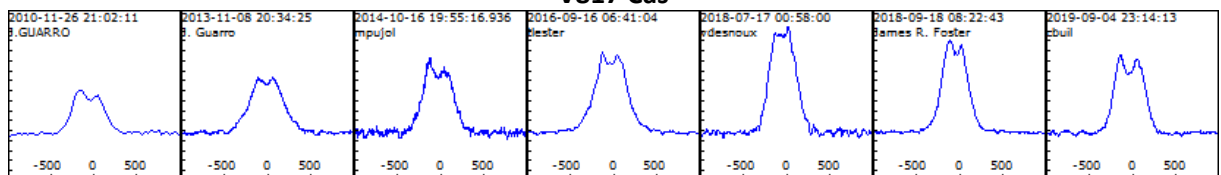
### HD 232552



### V549 Per

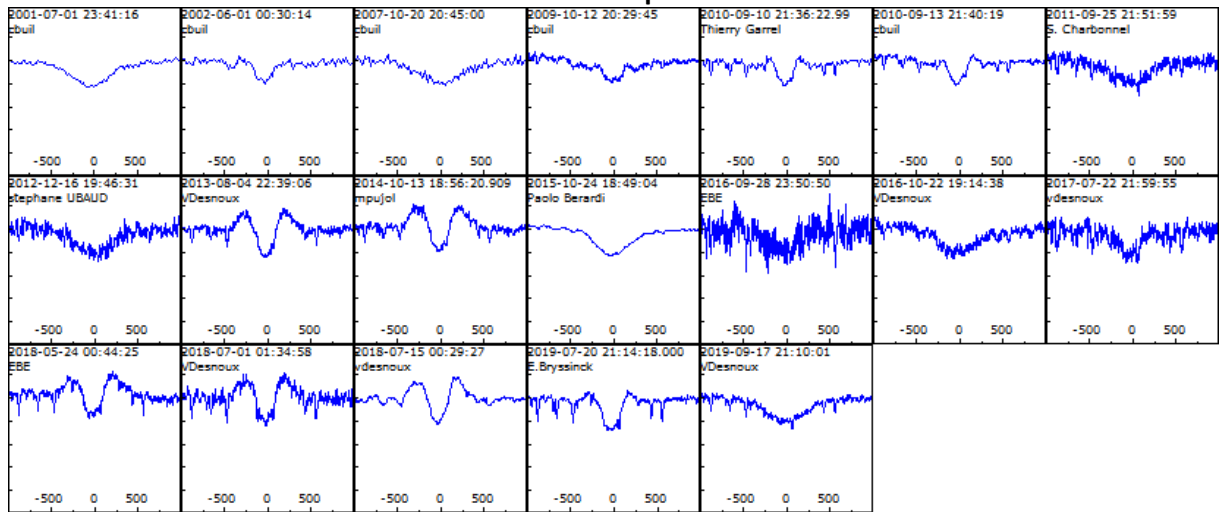


### V817 Cas

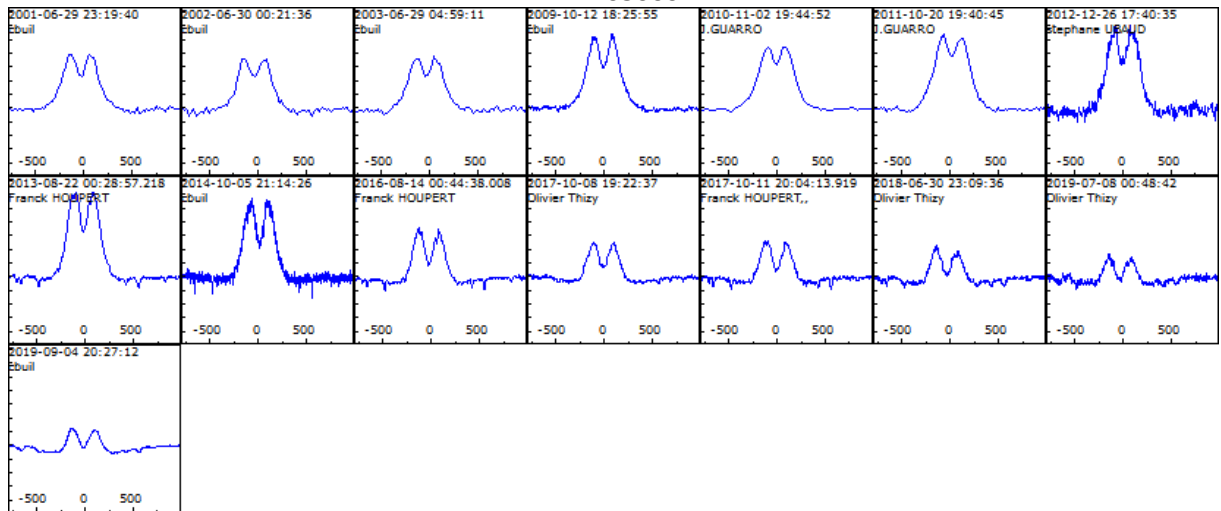




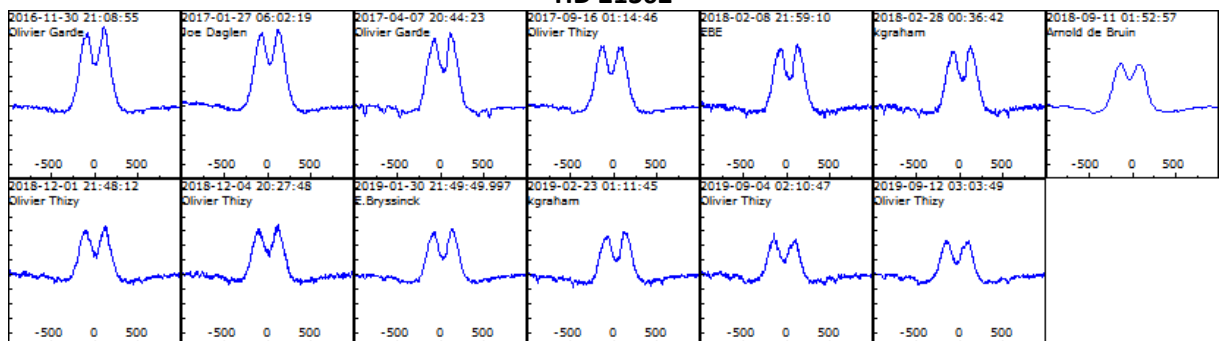
### EM Cep



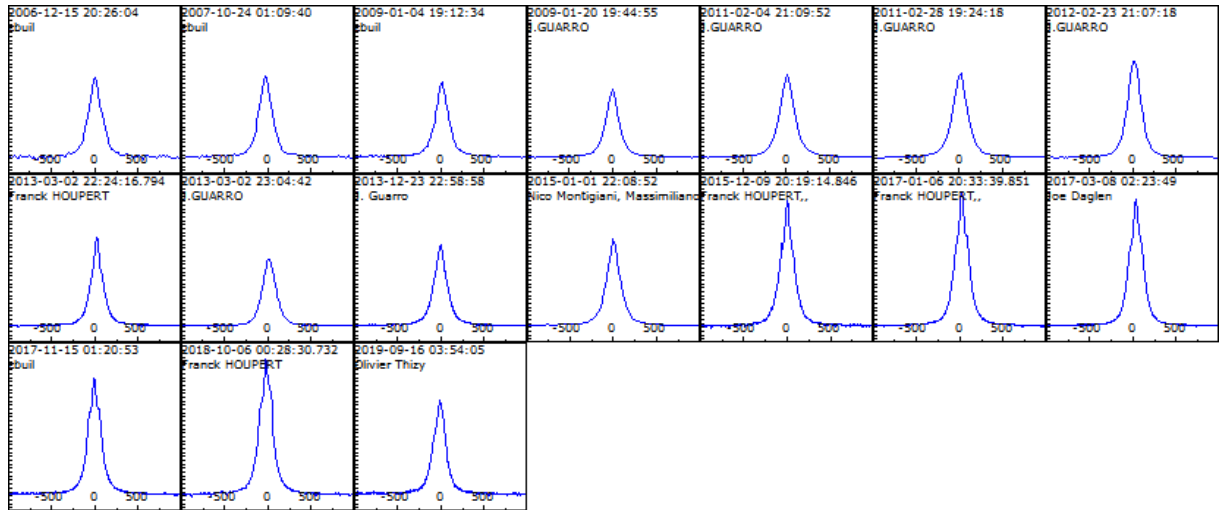
### HD 205060



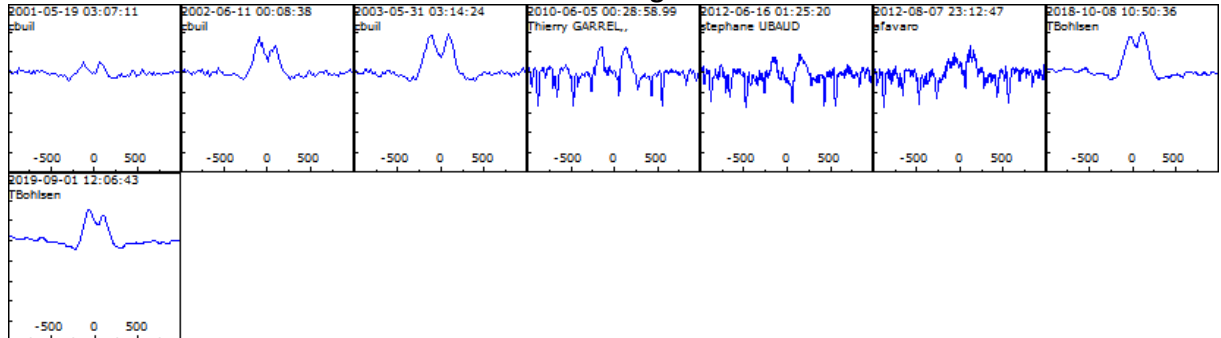
### HD 21362



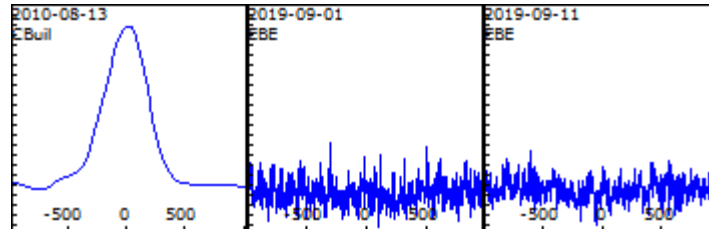
### V416 Aur



### V4031 Sgr



### V975 Cas



### 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***

#### **Valérie Desnoux**

[Valerie.desnoux@free.fr](mailto: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/>