

# BeSS report – December 2019

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

- 116 stars were observed
- 24 Observers contributed this month
- 259 Spectra

## Observers...

Observateur	Nb spec
Bryssinck	37
Daglen	32
HOUPERT	29
James	26
Guarro Fló	21
Stiewing	20
Charbonnel	17
Leonardi	17
Favaro	14
bertrand	10
GARDE	7
Buil Desnoux	5
Desnoux	4
Graham	3
Halsey	3
Iadevaia	3
BERNARD	2
KREIDER	2
de Bruin	2
Dumont	1
Buil	1
Somogyi	1
Li	1
Meunier	1
<b>Total général</b>	<b>259</b>

## Events of the month...

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

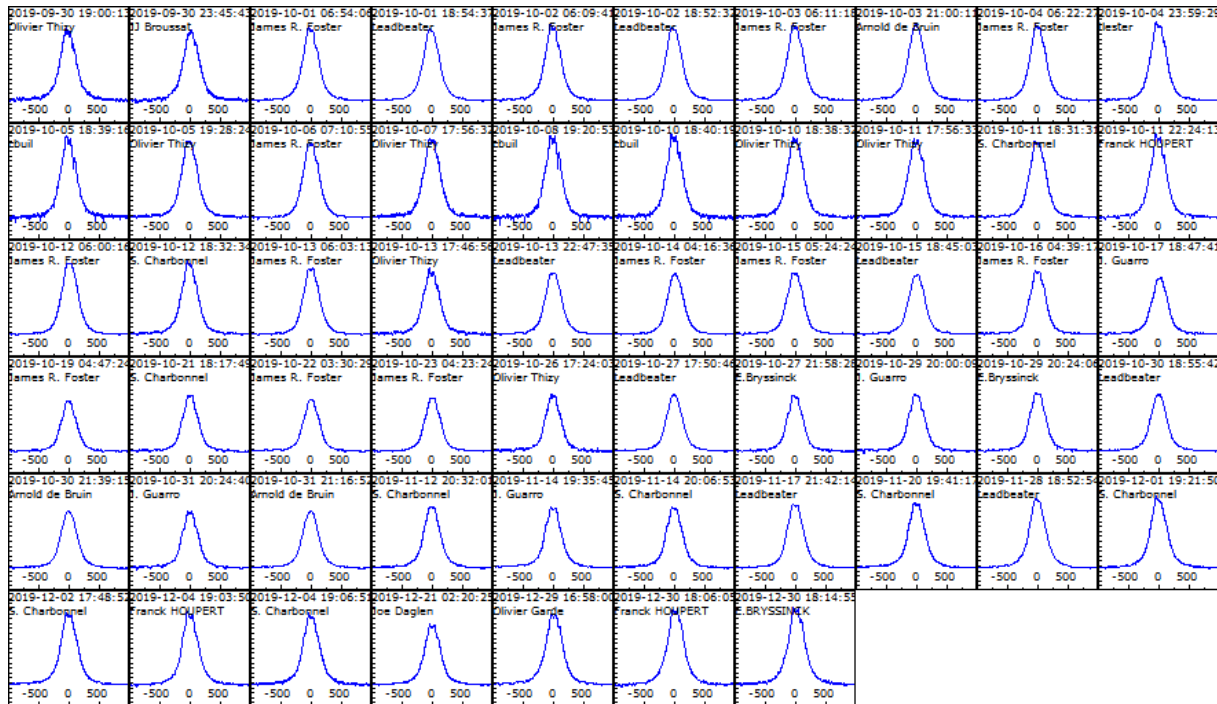
EE	ME	DE
V357 Lac	QR Vul	PLEIONE
Iam Eri	pi Aqr	V442 And
CR Cam	25 Cyg	14 Lac
phi Per	BD+61 39	228 Eri
HD 206773	zet Tau	BN Gem
OT Gem	Menkhib	12 Aur
bet Cyg B	Iam Cyg	ome Ori
V2148 Cyg	omi Pup	V1369 Ori
KX And	CX Dra	bet Mon A
HD 23800	V1165 Tau	V413 Aur
HD 45995	V415 Aur	V447 Aur
IU Aur	I Hya	HD 72043
HD 20340	25 Ori	HD 35347
V439 Cep	eta Ori	HD 46484
HD 81357	HD 224905	V1162 Tau
PZ Gem	RW Tau	HD 31648
V695 Mon	HD 217061	
V1153 Tau	V404 Lac	
V1167 Tau	AB Aur	

## Objects observed

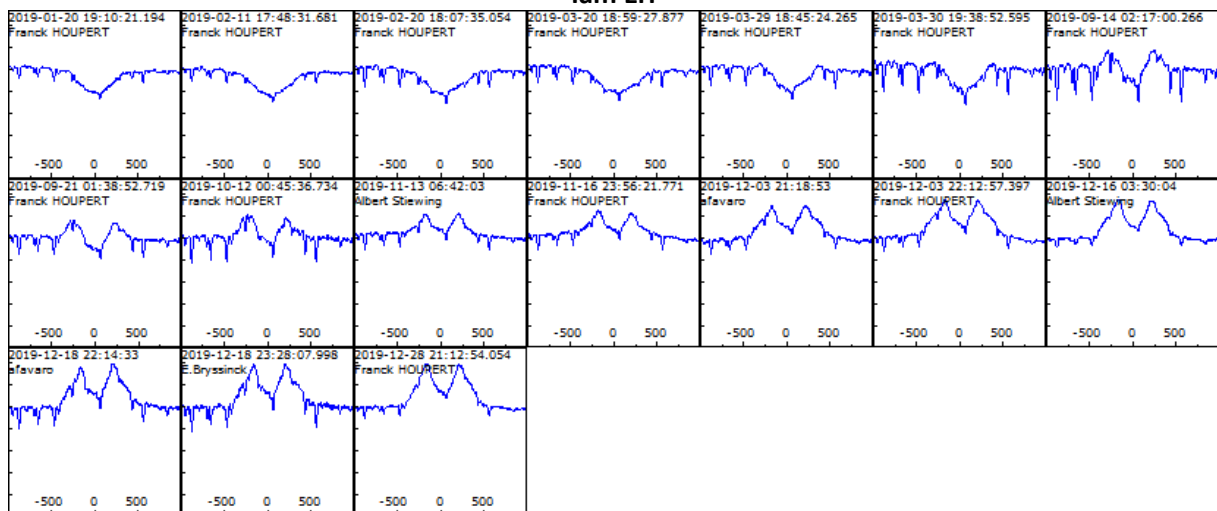
Classique						?	Herbig
V442 And	PLEIONE	pi Aqr	V357 Lac	CT Cam	V801 Cas	HD 20566	HD 31648
gam Cas	28 Cyg	25 Cyg	BD+61 39	lam Eri	CR Cam		AB Aur
HD 237056	bet Psc	phi Per	HD 29866	HD 206773	ALFIRK		V700 Mon
zet Tau	OT Gem	HD 237091	14 Lac	nu Cyg	31 Peg		
228 Eri	2 Ori	Menkhib	V731 Tau	V780 Cas	BN Gem		
QR Vul	69 Ori	omi And	lam Cyg	phi And	psi Per		
ALCYONE	HD 21362	omi Pup	CX Dra	HD 22780	EW Lac		
bet CMi	nu Gem	V1165 Tau	bet Cyg B	HD 37352	ups Cyg		
V2148 Cyg	KX And	PHECDA	omi Her	16 Peg	HD 18552		
HD 2789	HD 20134	12 Aur	HD 23800	V415 Aur	V409 Lac		
EE Cep	V529 Cas	5 Cnc	ome Ori	HD 79066	I Hya		
phi Leo	HD 76868	HD 45995	IU Aur	25 Peg	25 Ori		
omi Aqr	eta Ori	V1369 Ori	HD 21650	bet Mon A	HD 20340		
HD 71072	V978 Cas	HD 223387	43 Ori	V420 Aur	V413 Aur		
V439 Cep	120 Tau	HD 42477	HD 30677	HD 224905	V447 Aur		
RW Tau	HD 68468	HD 27846	HD 81357	PZ Gem	V695 Mon		
HD 43285	V1374 Ori	HD 29035	HD 72043	PY Gem	HD 89884		
HD 112028	HD 217061	V404 Lac	V1153 Tau	HD 35345	V1167 Tau		
HD 35347	HD 46484	HD 250289	V1162 Tau				

## Emission increase since last observations

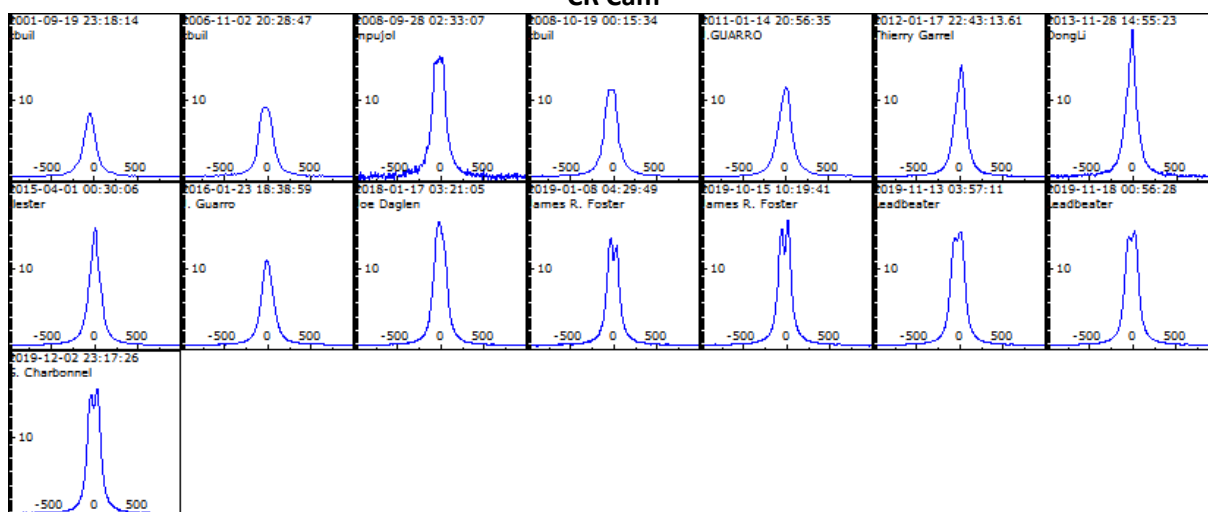
**V357 Lac**



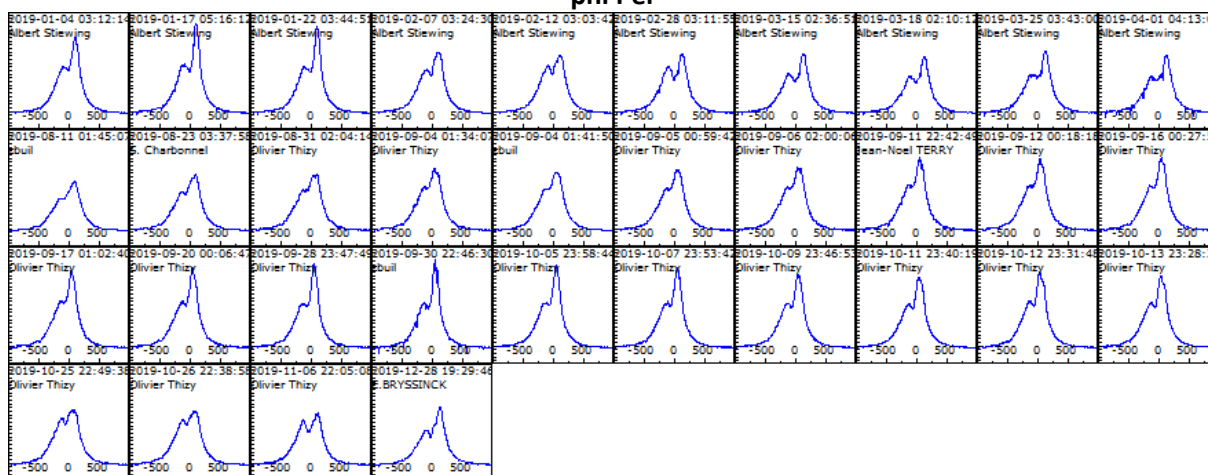
**lam Eri**



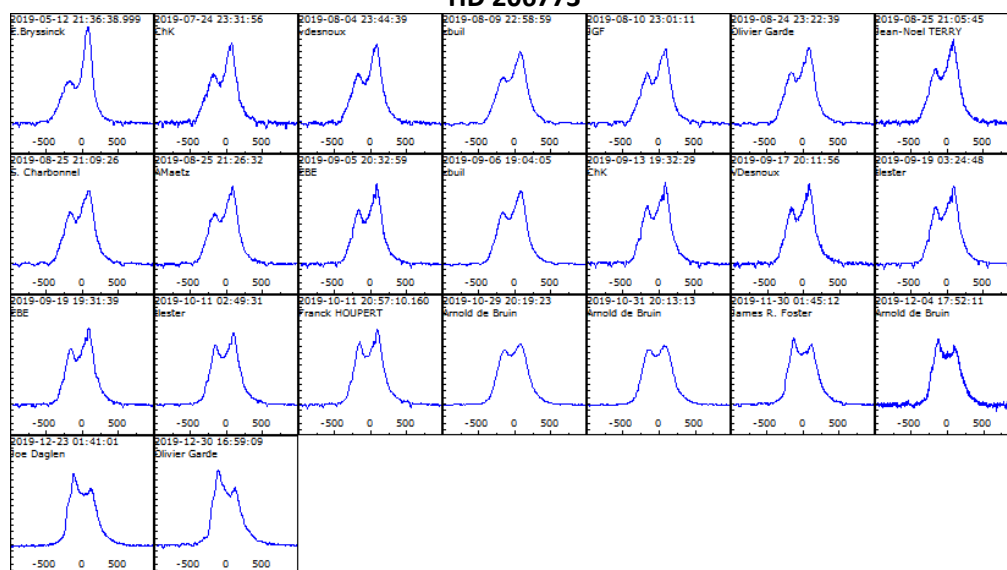
### CR Cam



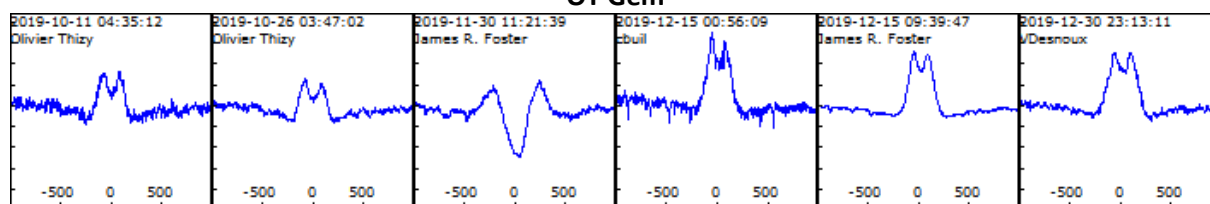
### phi Per



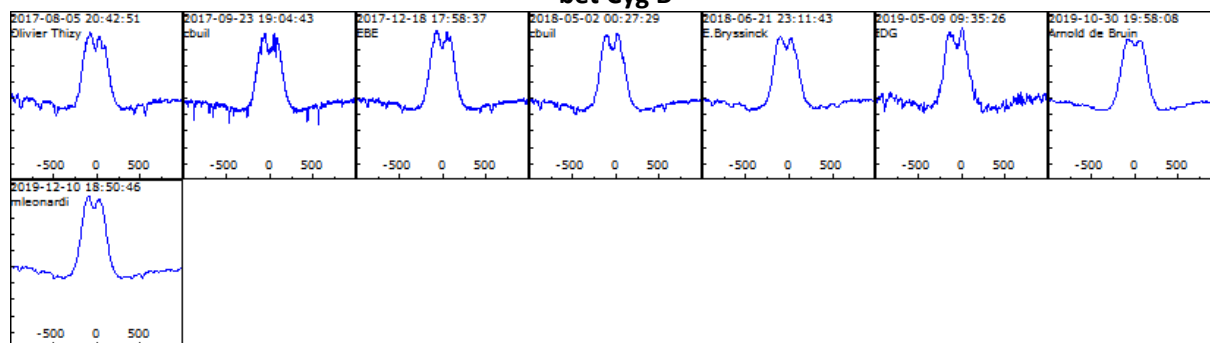
### HD 206773



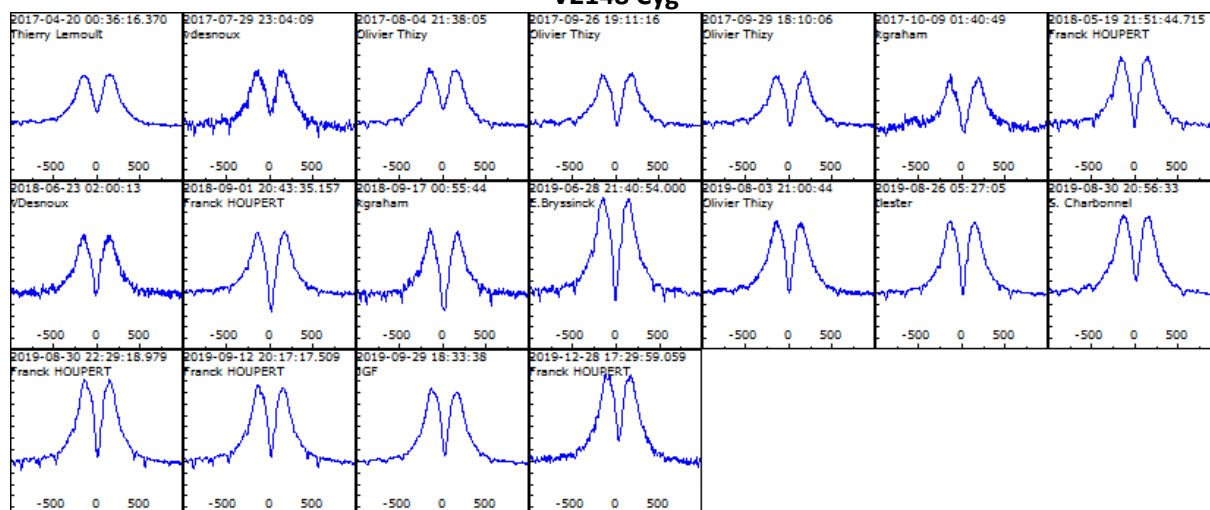
### OT Gem



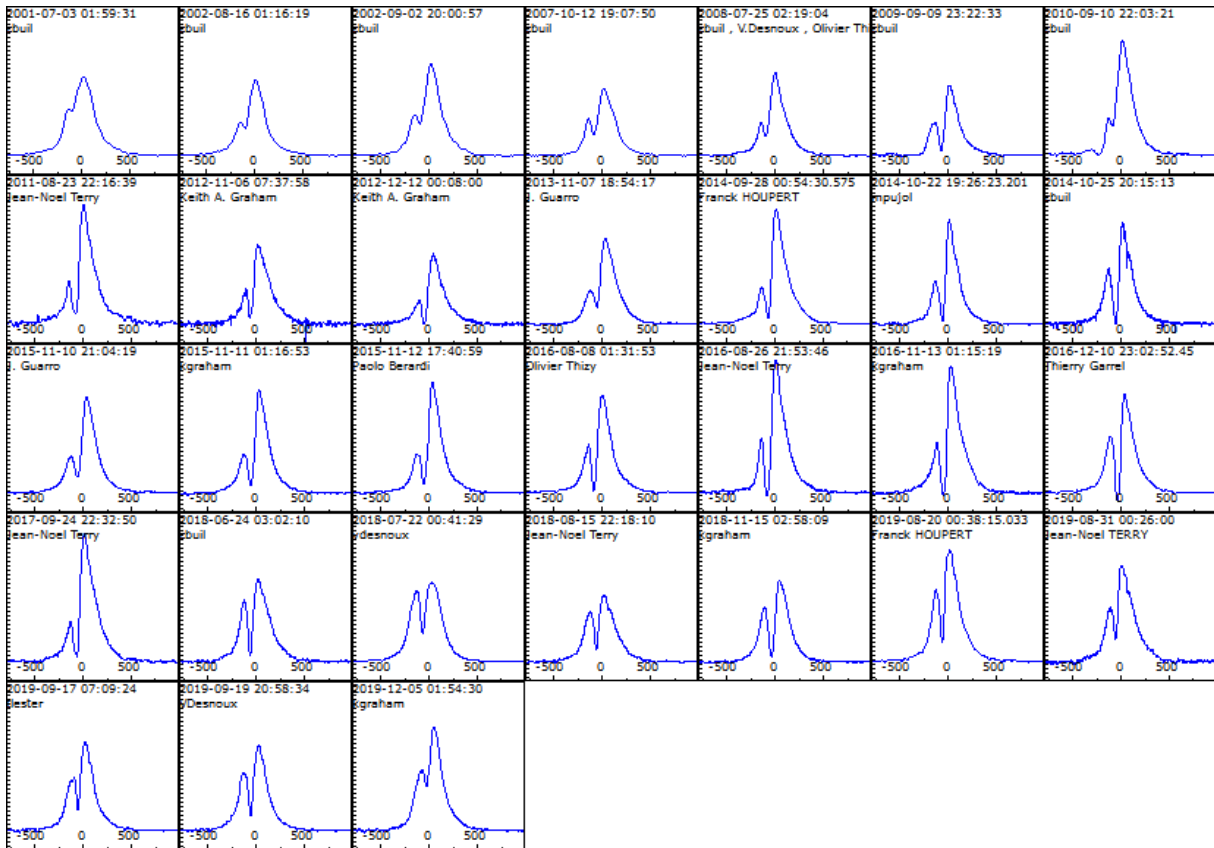
### bet Cyg B



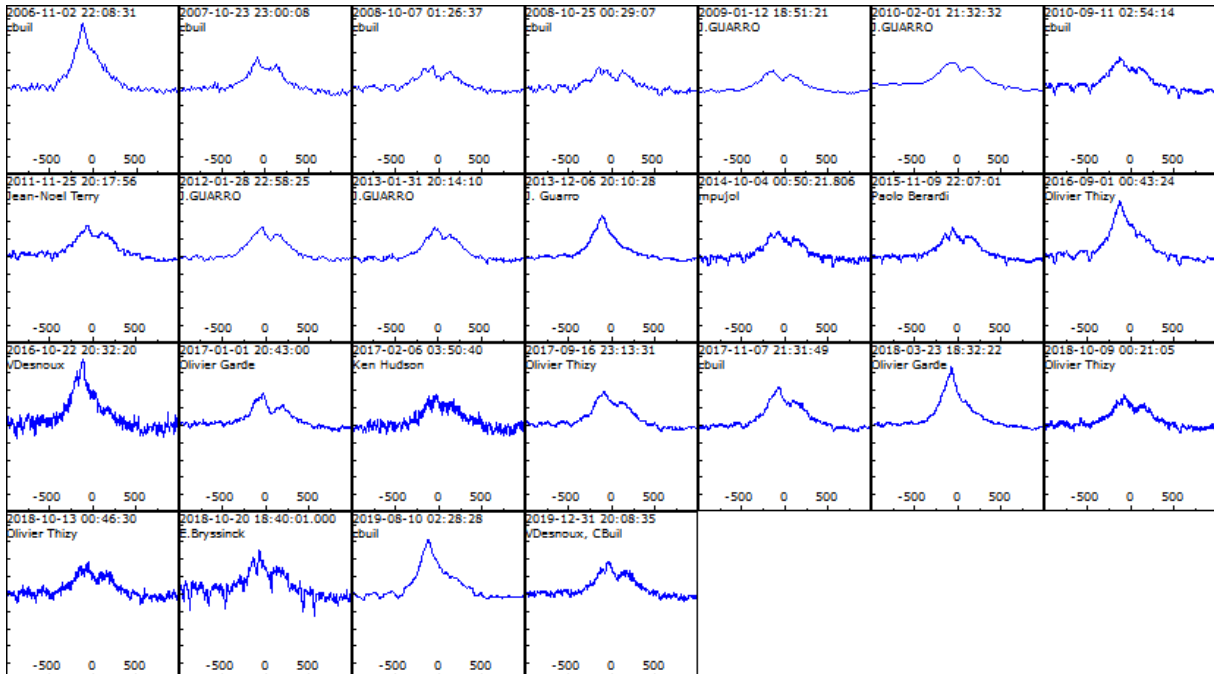
### V2148 Cyg



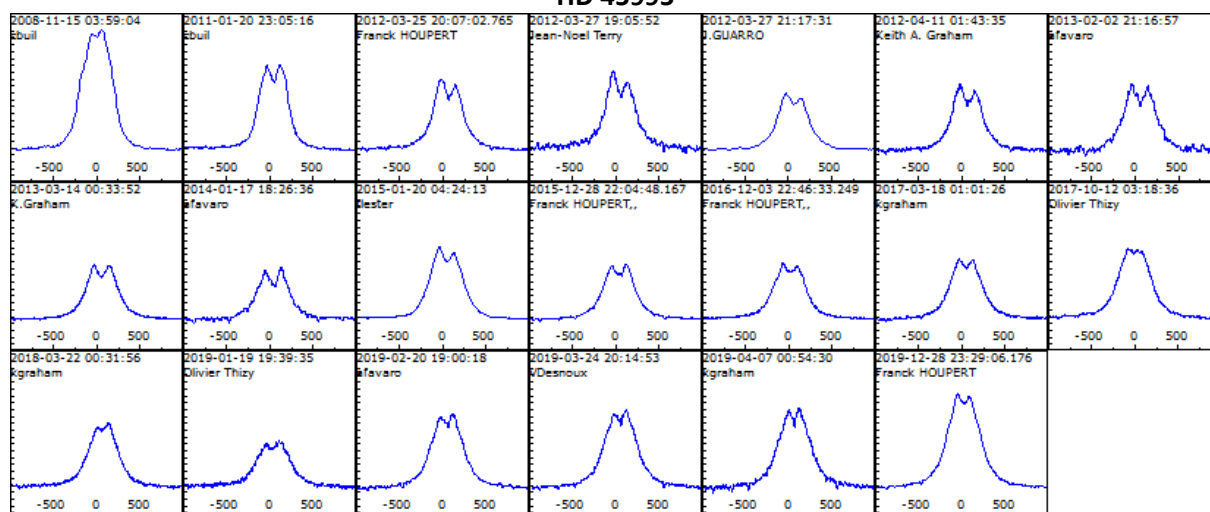
## KX And



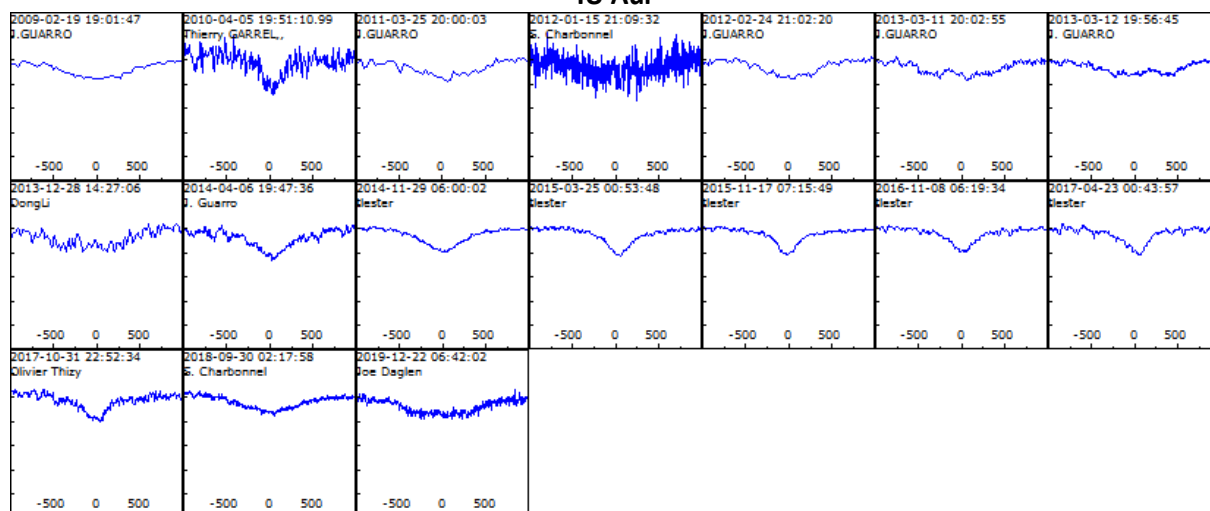
## HD 23800



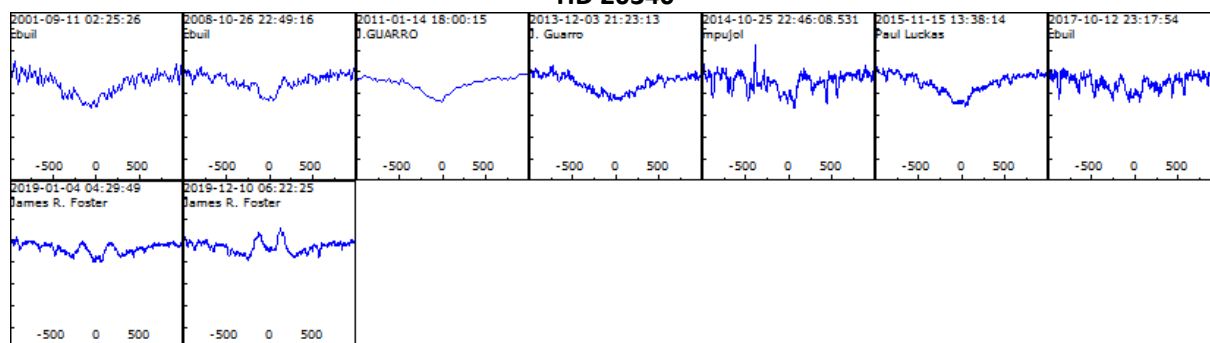
### HD 45995



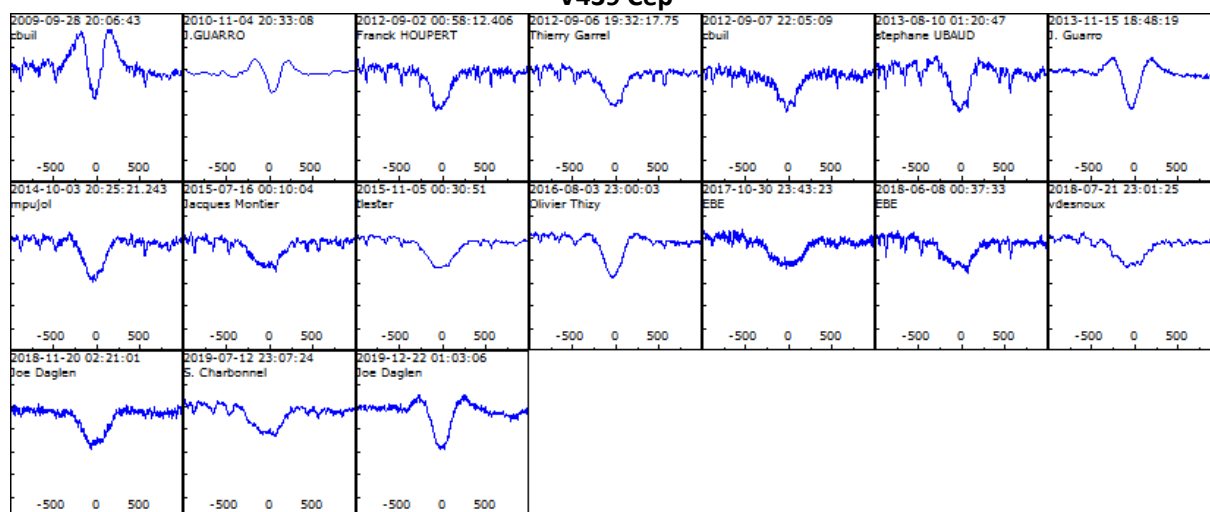
### IU Aur



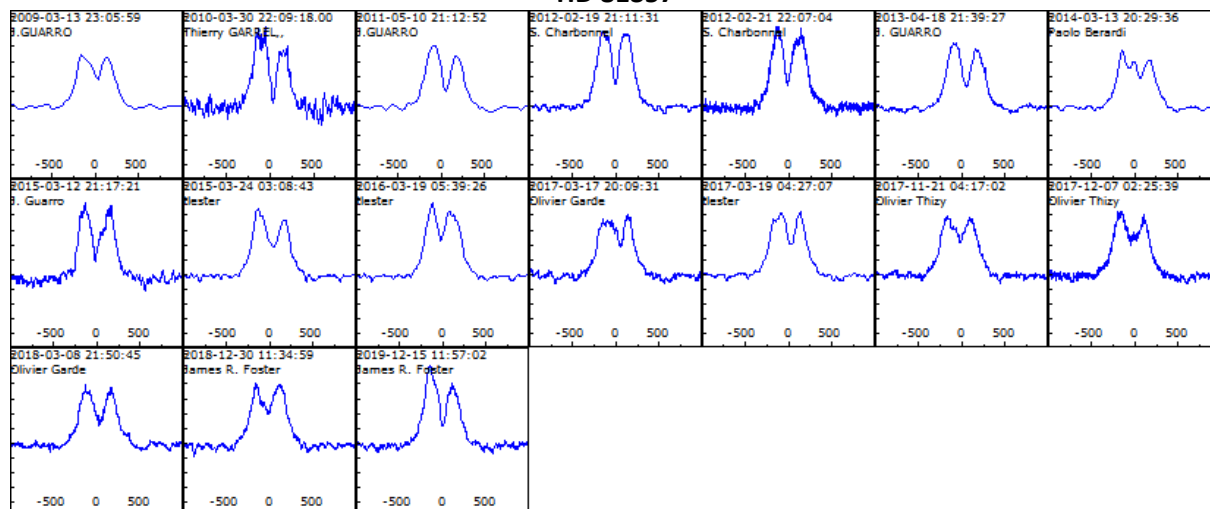
### HD 20340



### V439 Cep

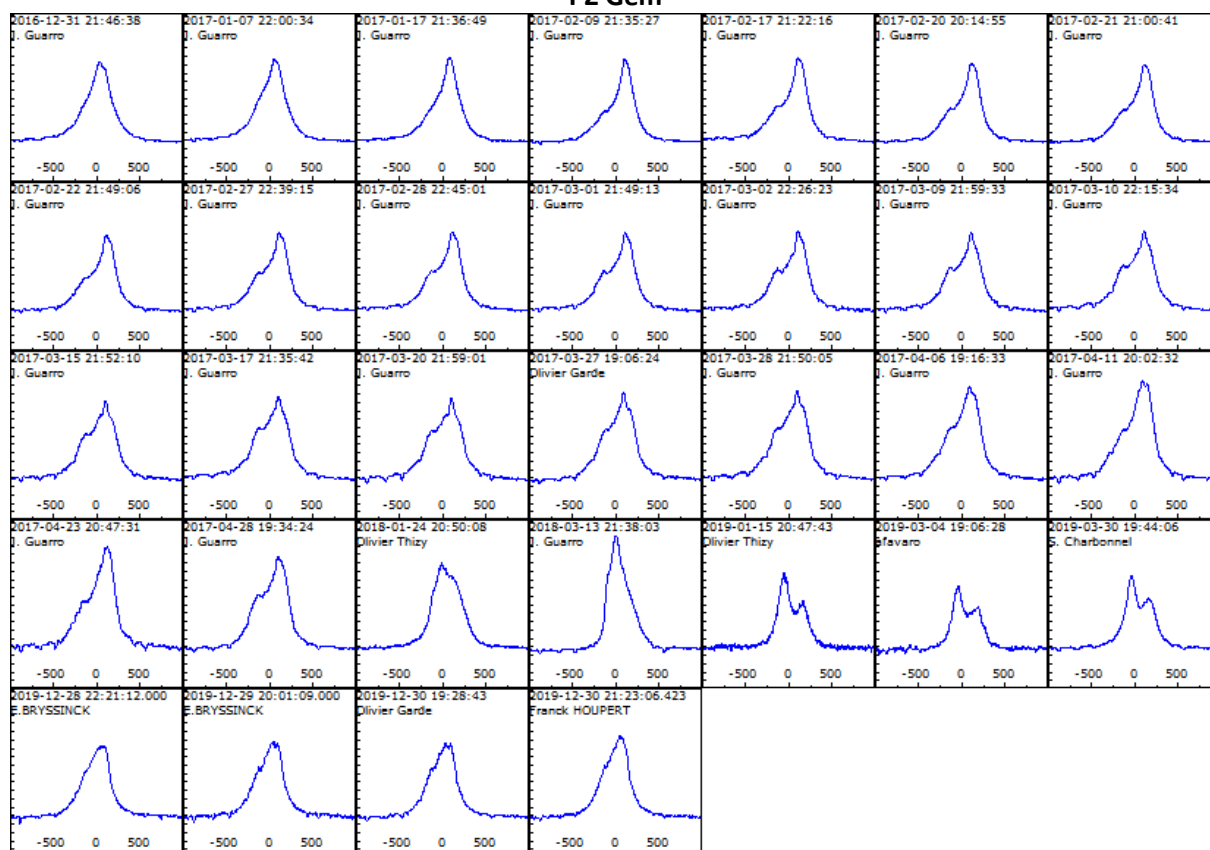


### HD 81357

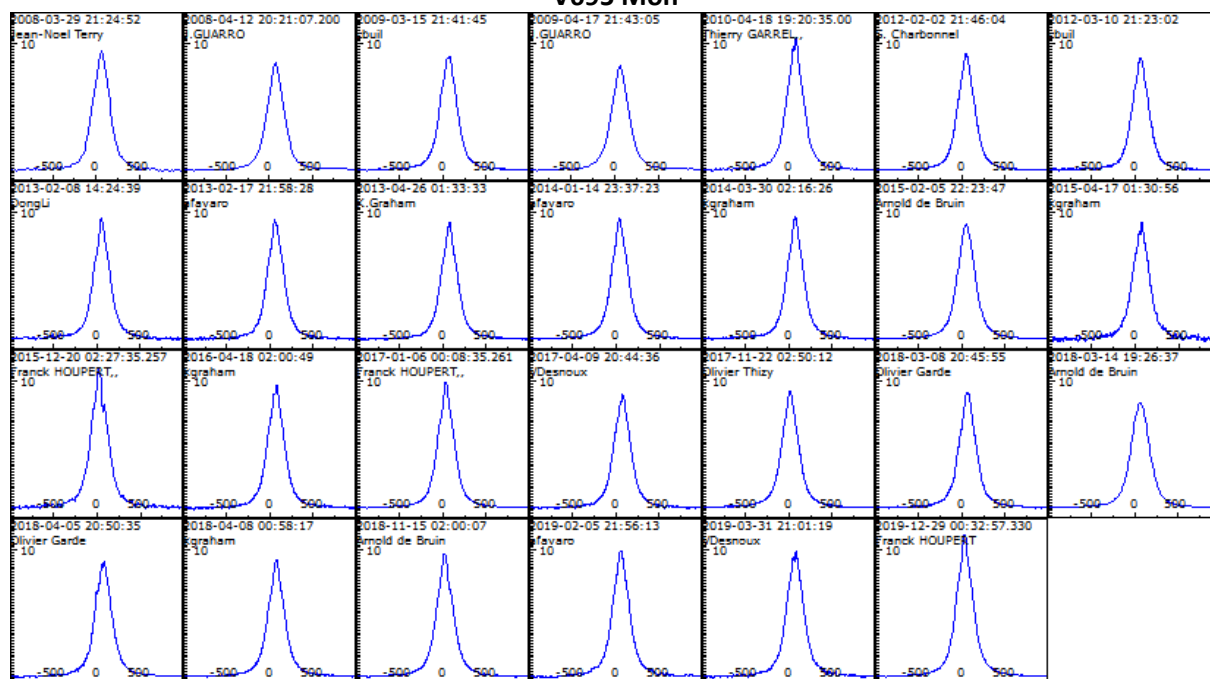




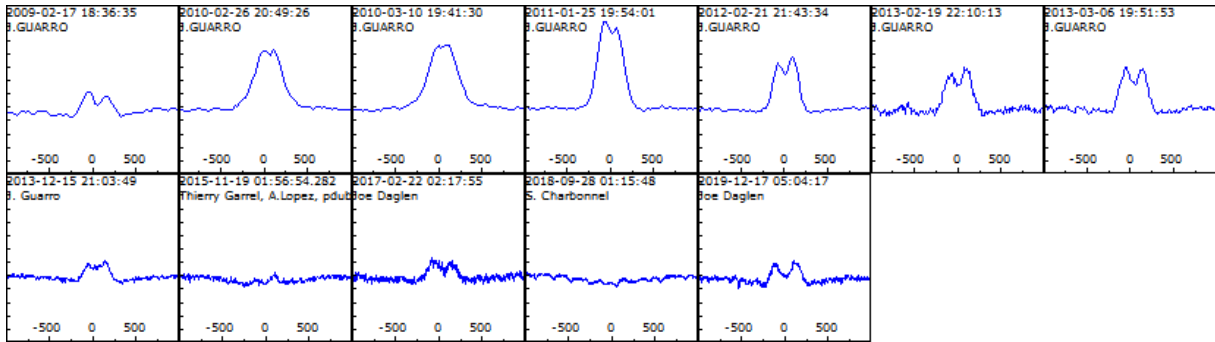
### PZ Gem



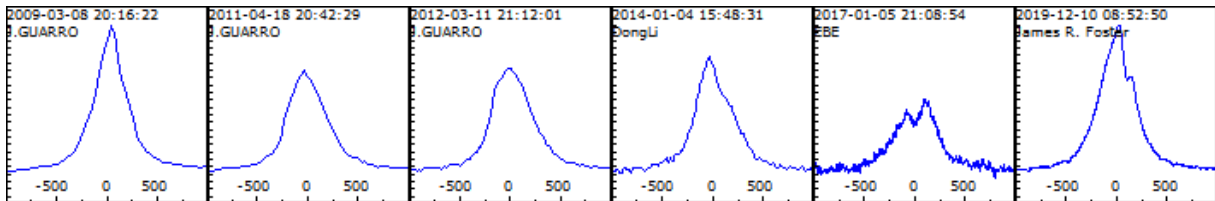
### V695 Mon



### V1153 Tau

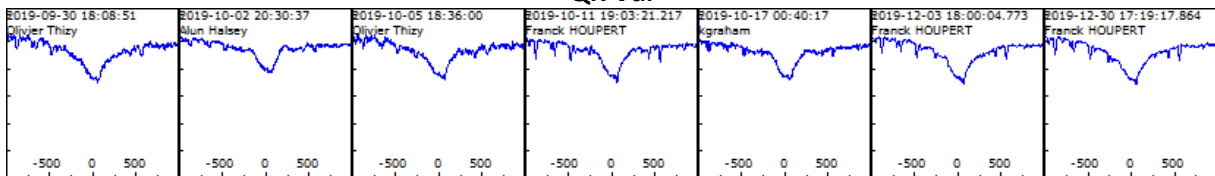


**V1167 Tau**

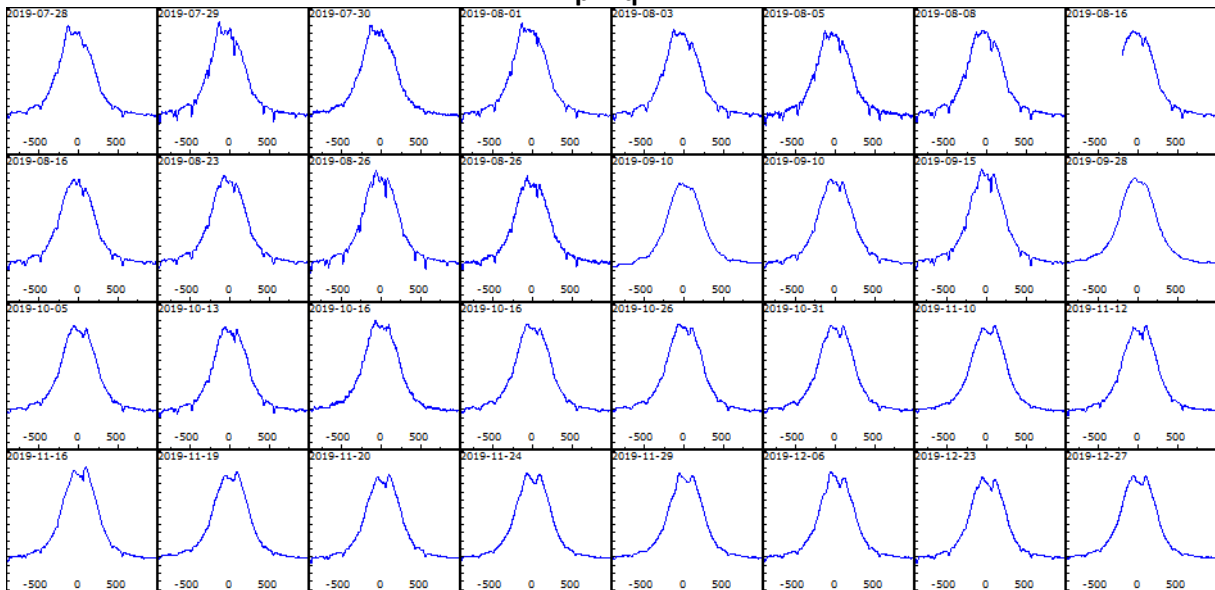


## Moderate evolution of H-alpha line

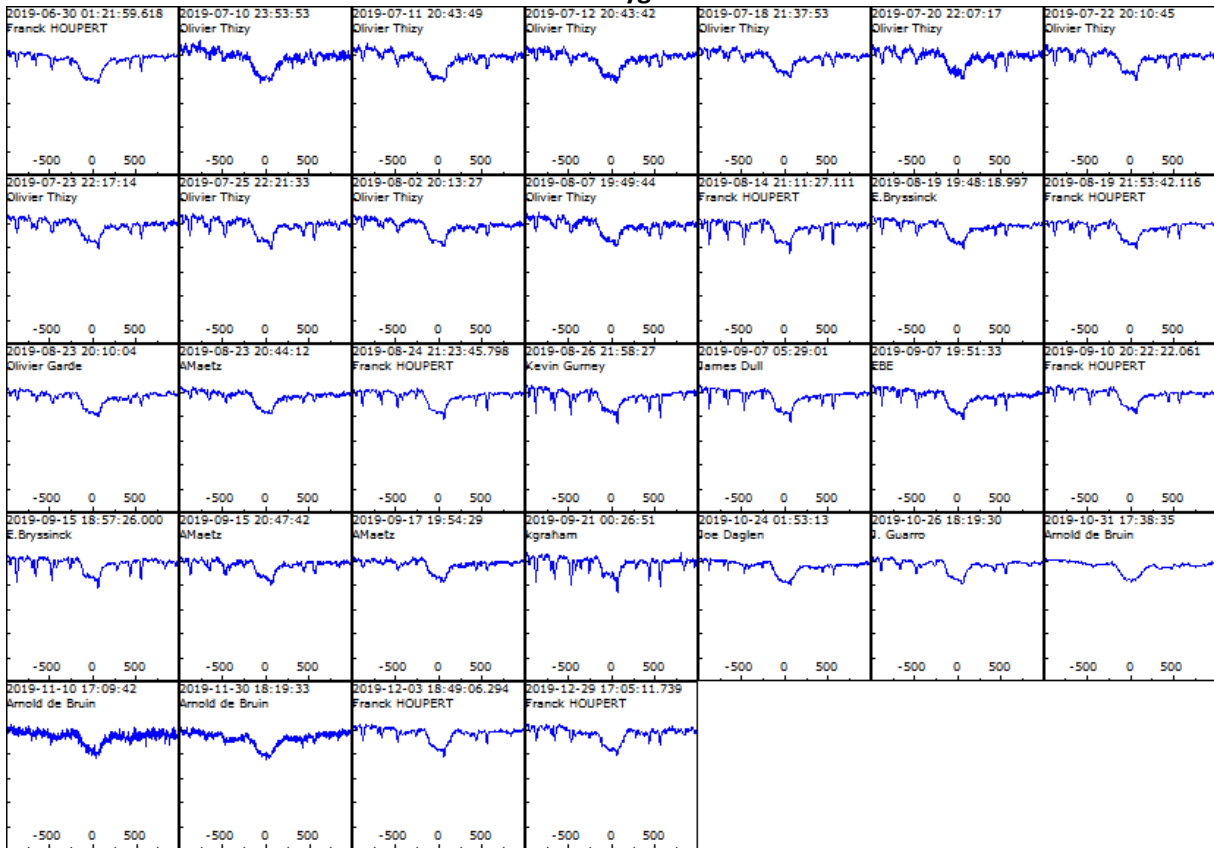
**QR Vul**



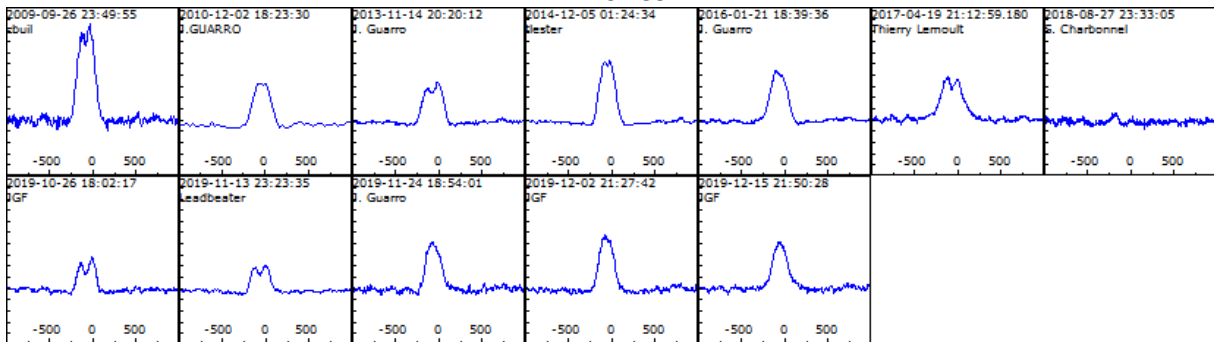
**pi Aqr**



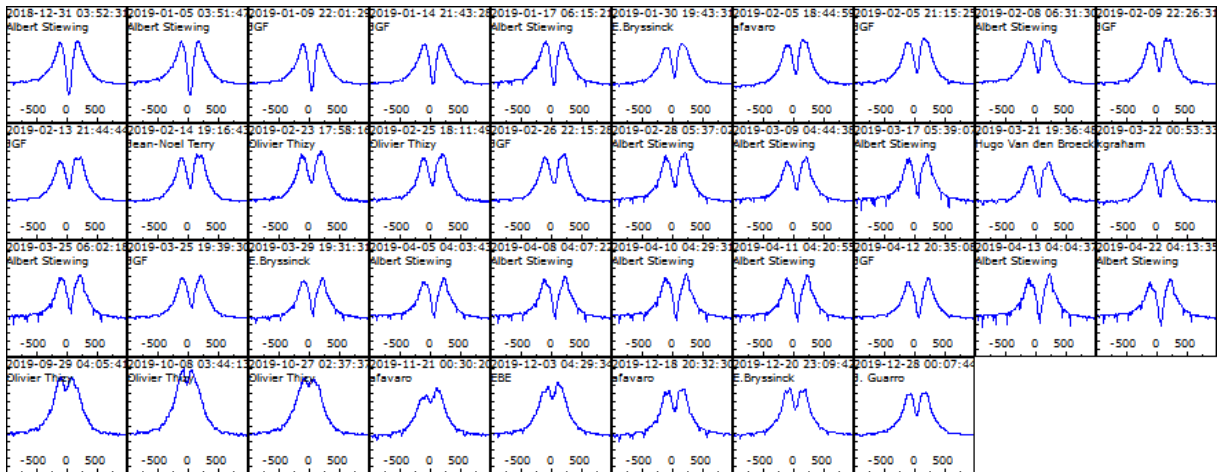
## 25 Cyg



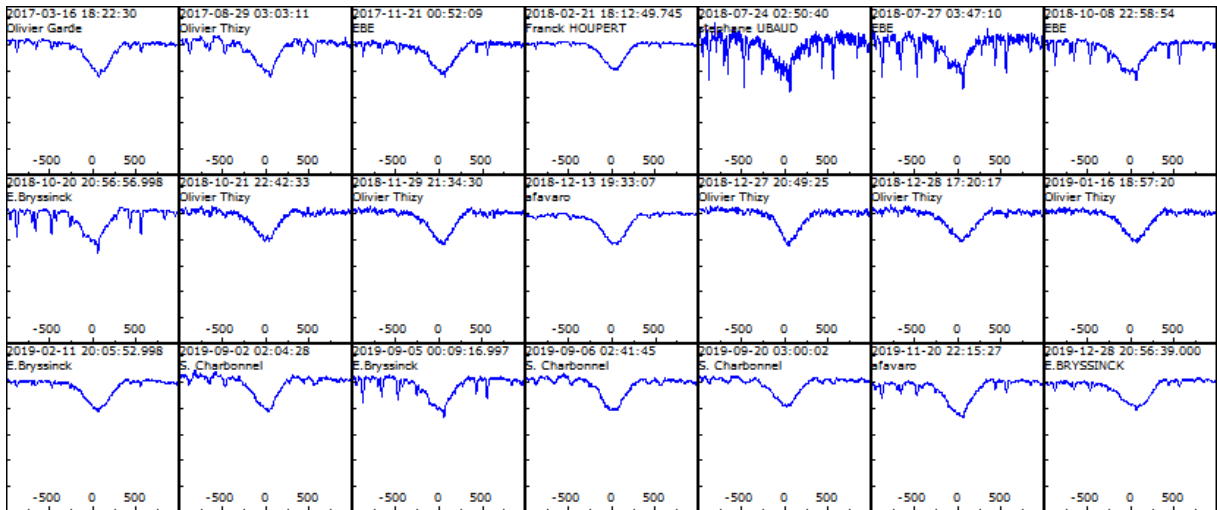
## BD+61 39



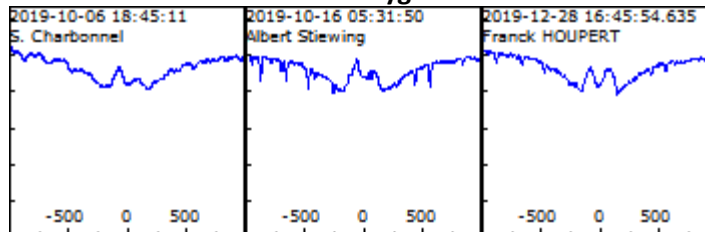
### zet Tau



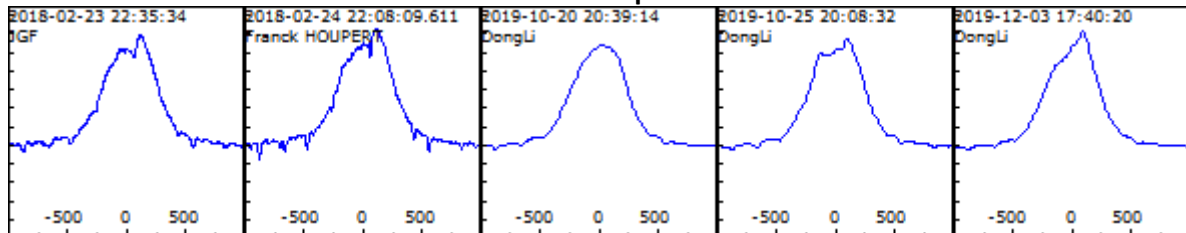
### Menkhib



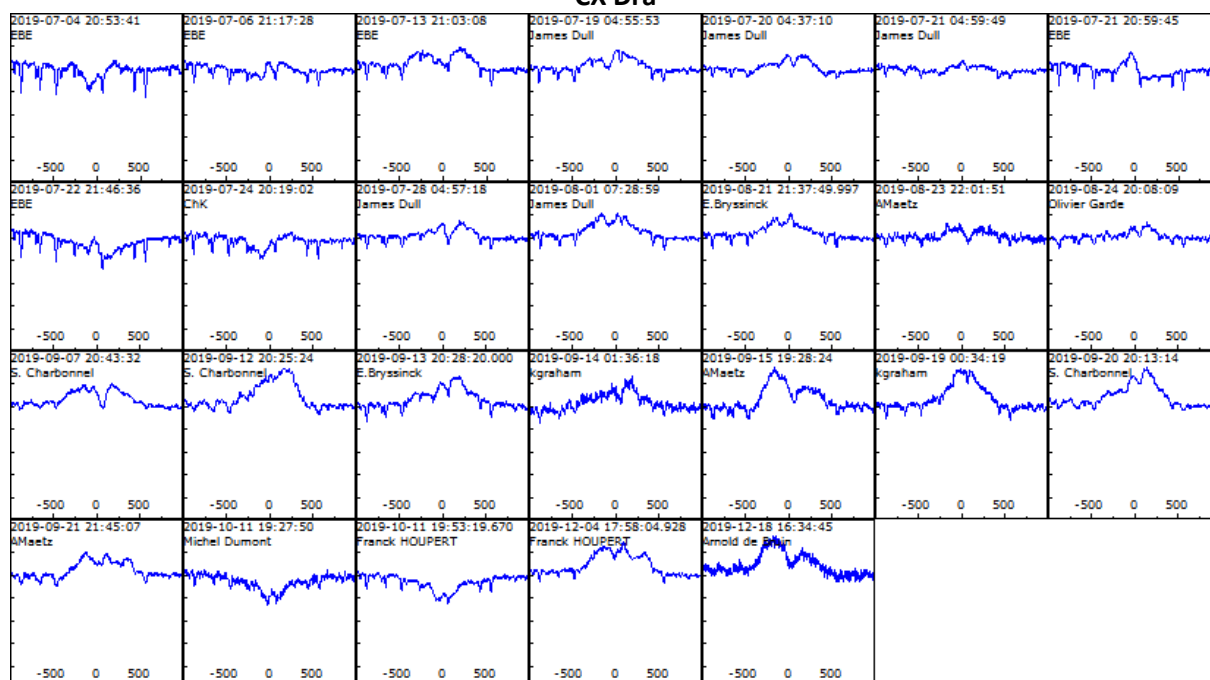
### Iam Cyg



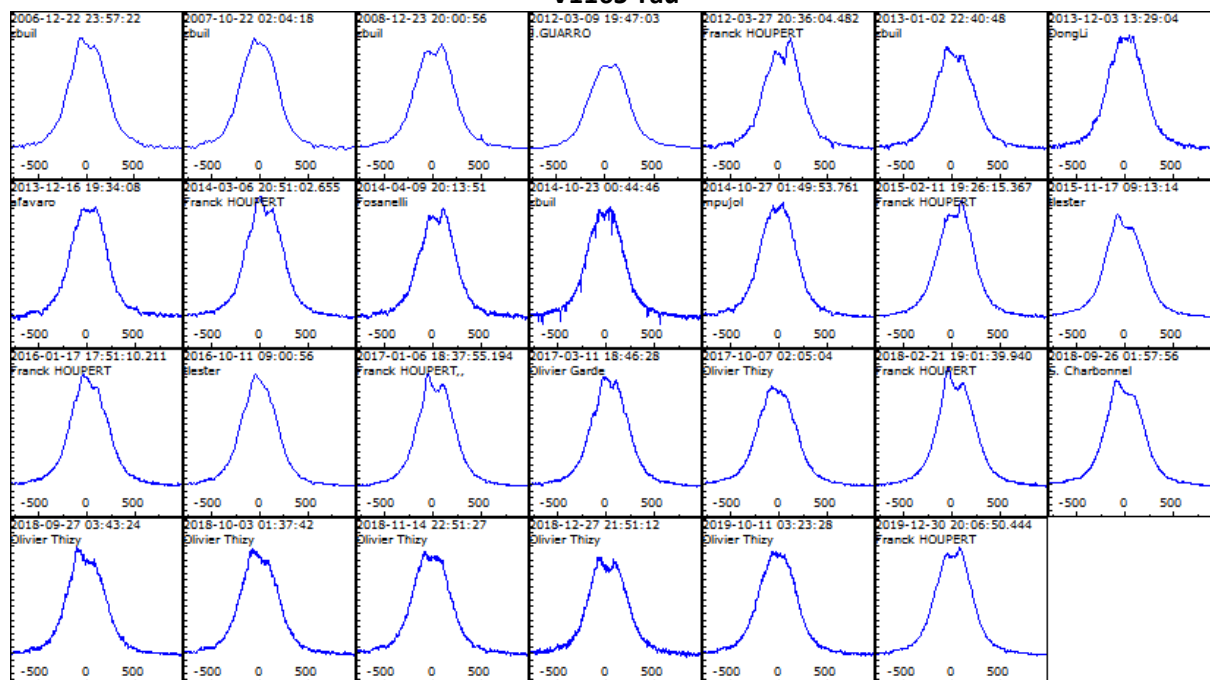
### omi Pup



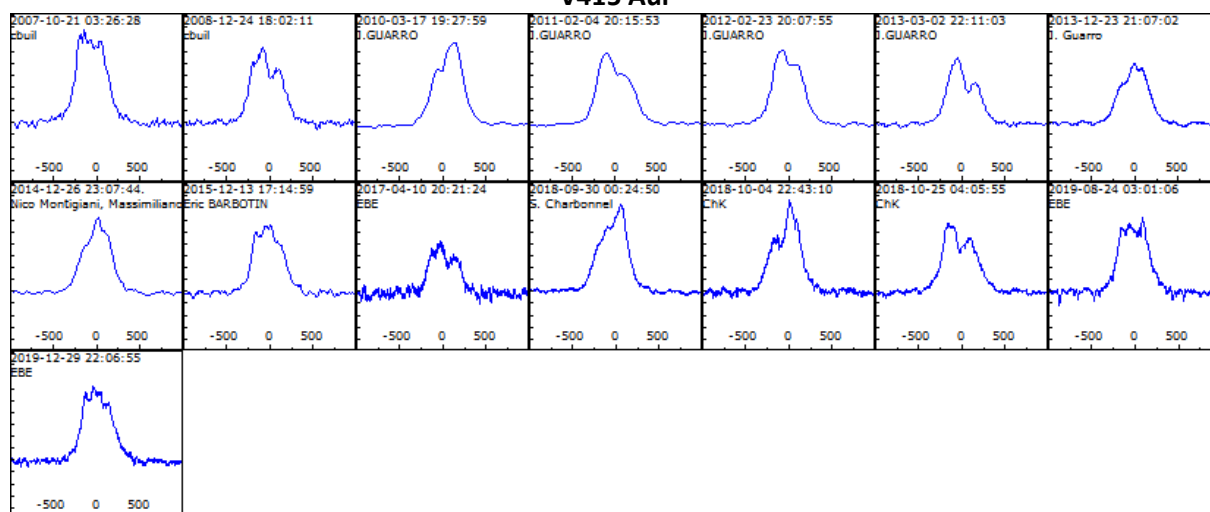
### CX Dra



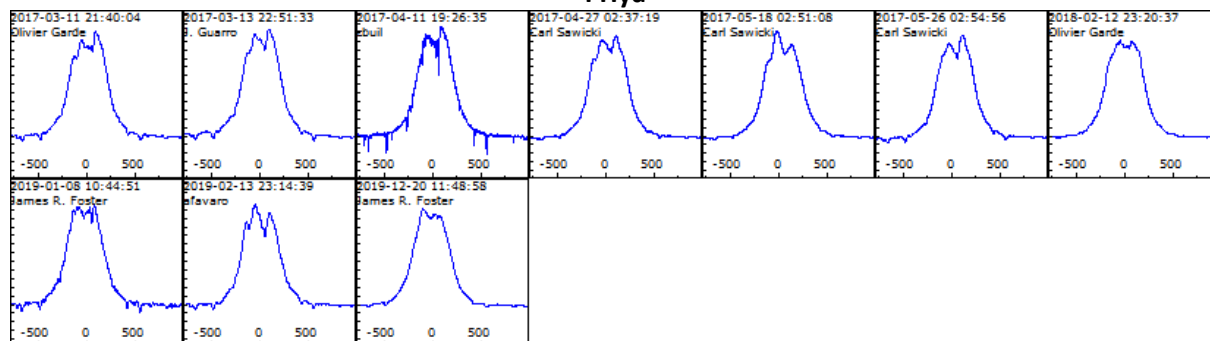
### V1165 Tau



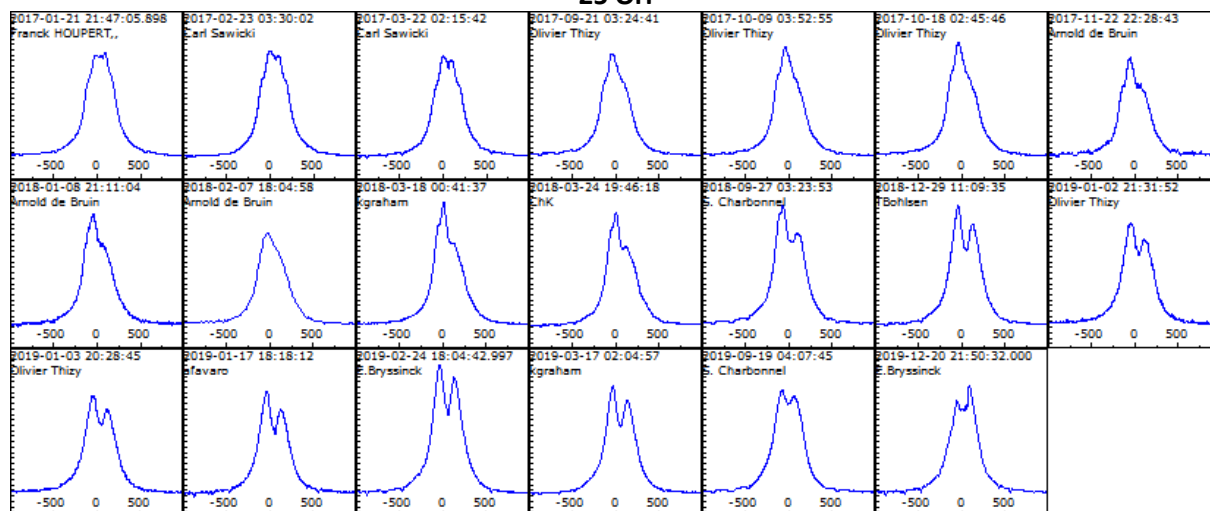
### V415 Aur



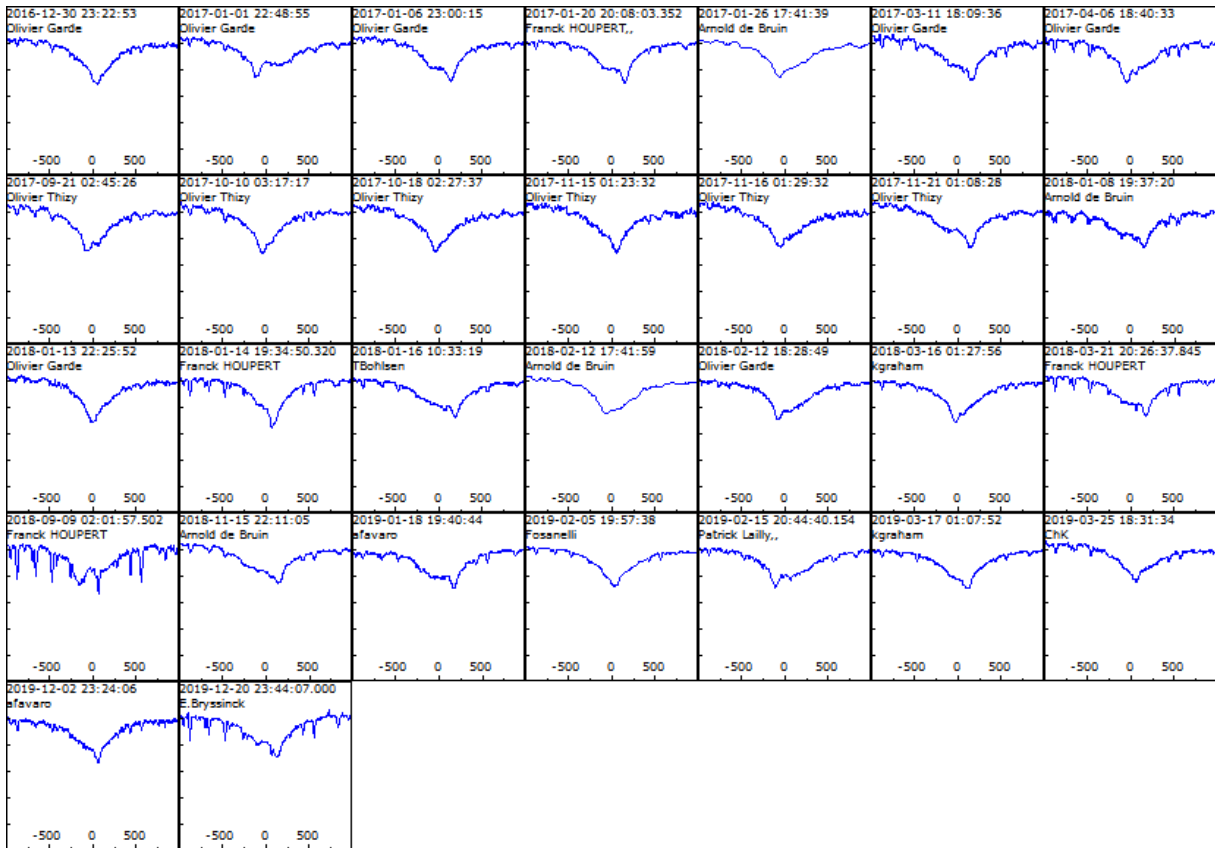
### I Hya



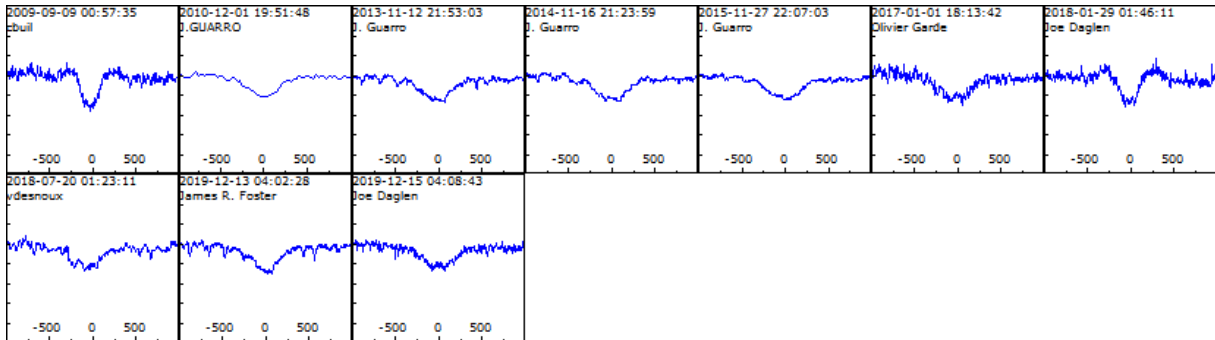
### 25 Ori



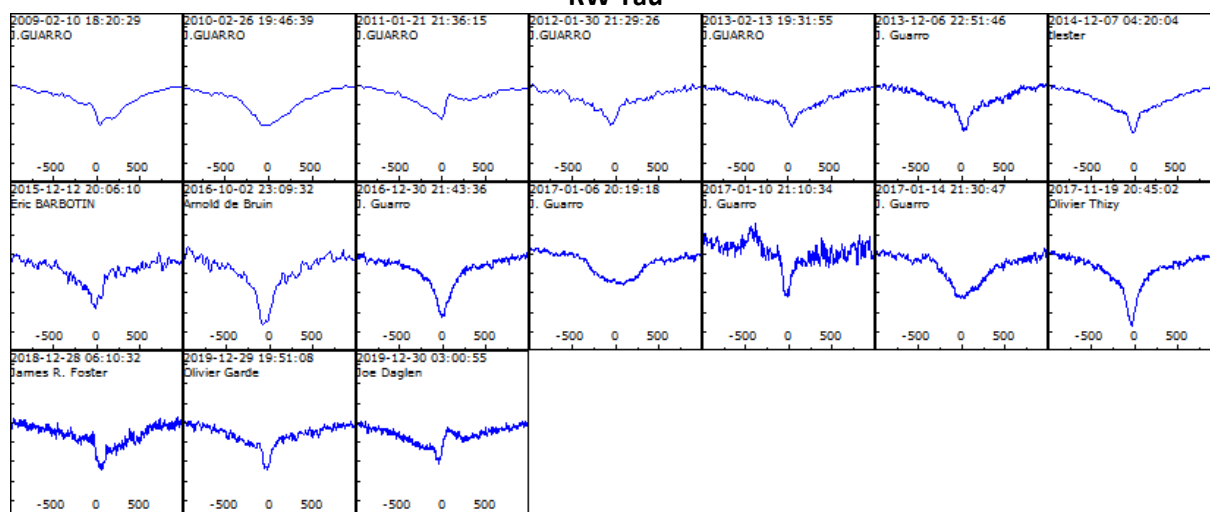
### eta Ori



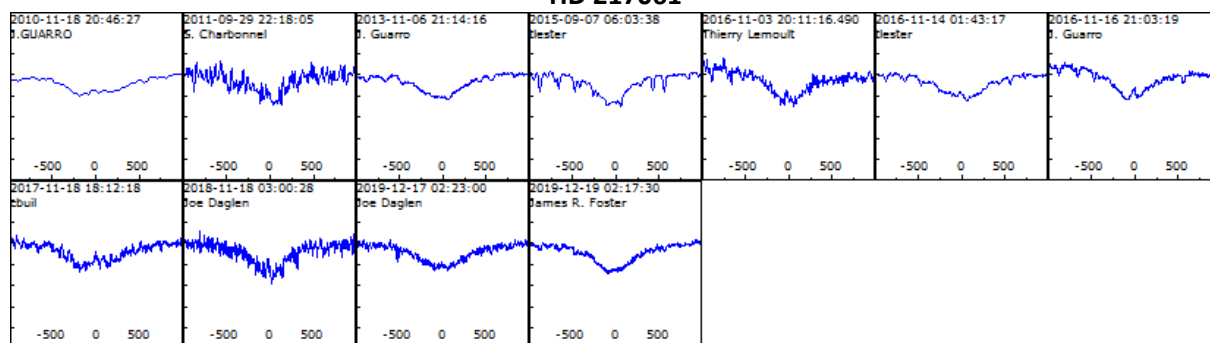
### HD 224905



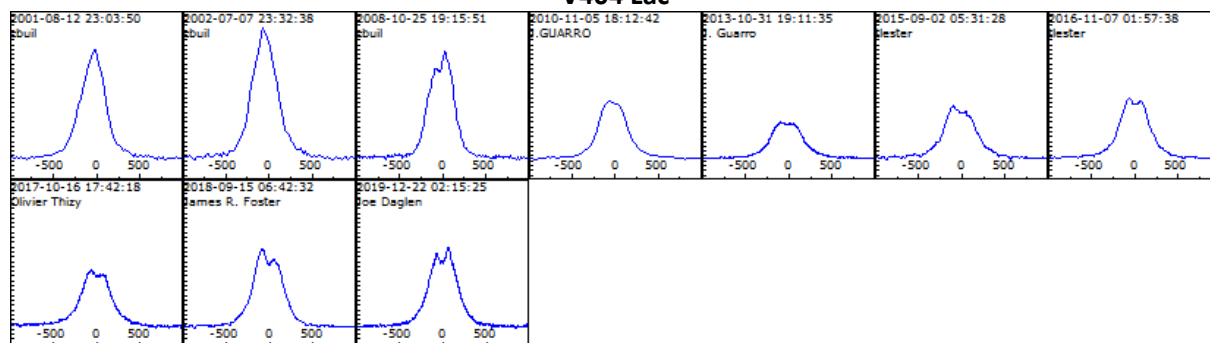
### RW Tau



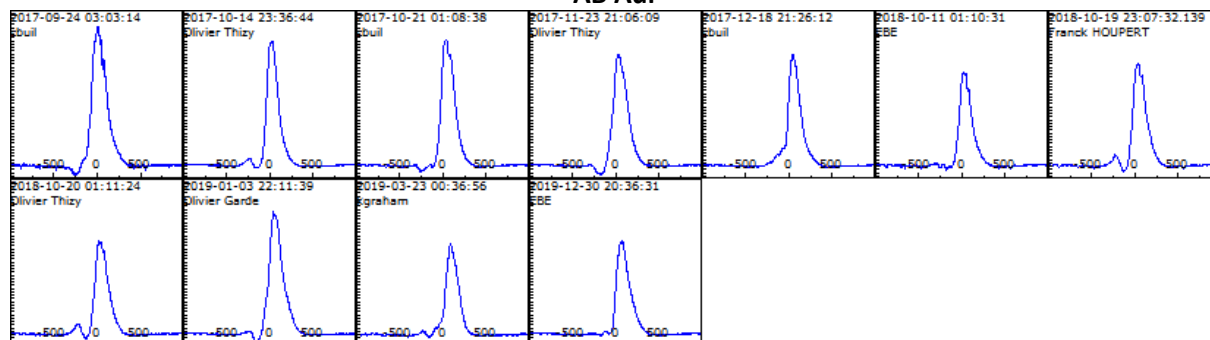
### HD 217061



### V404 Lac



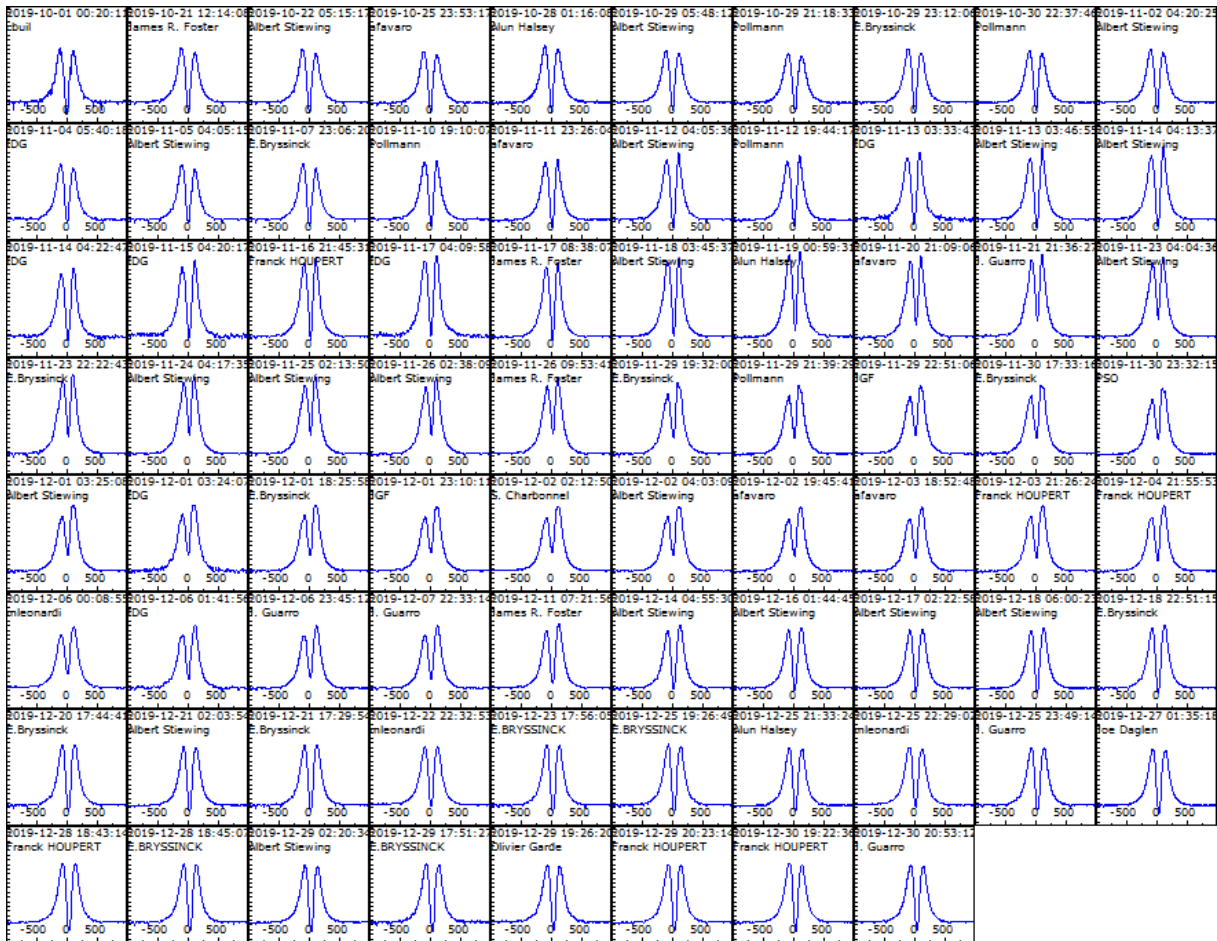
### AB Aur



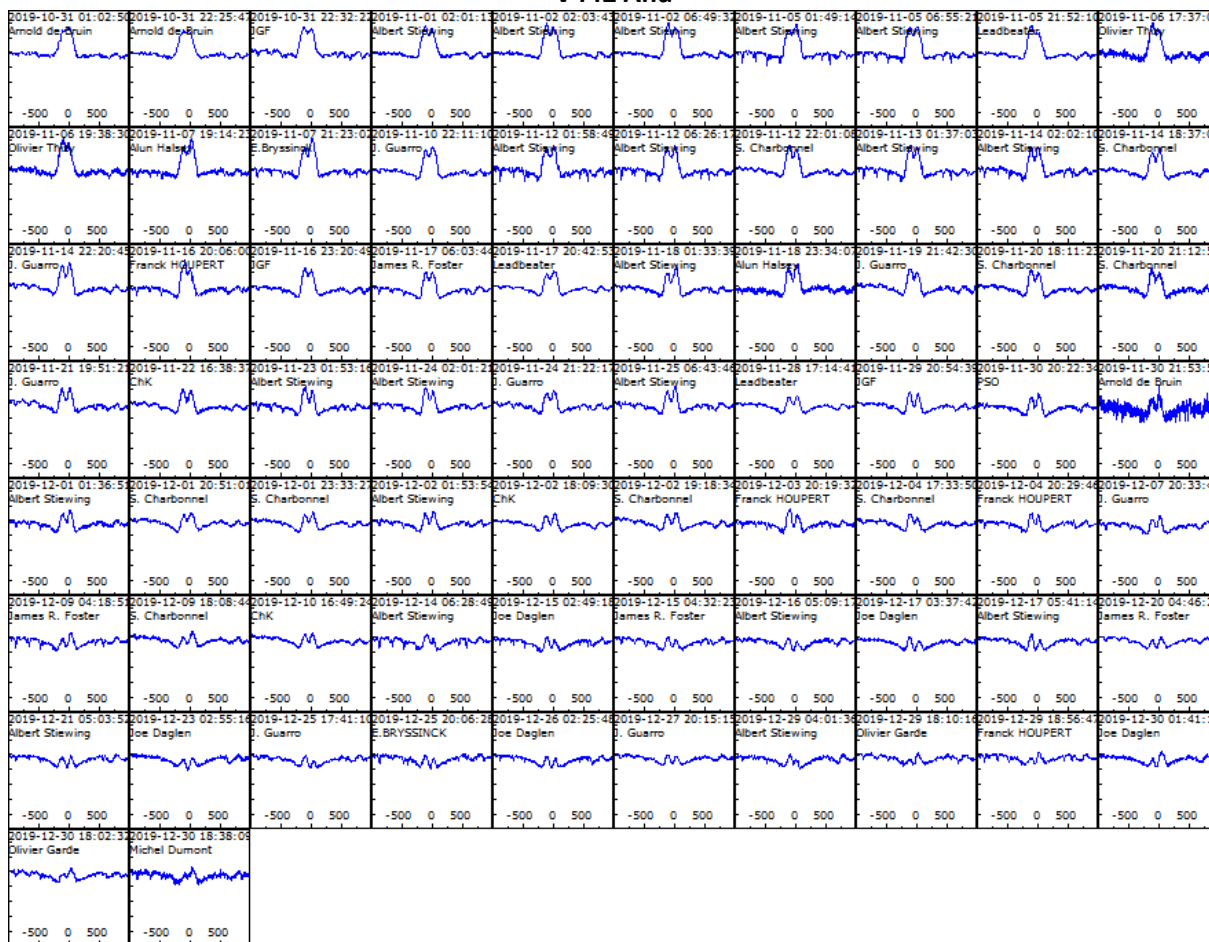


## Emission decrease of H-alpha line

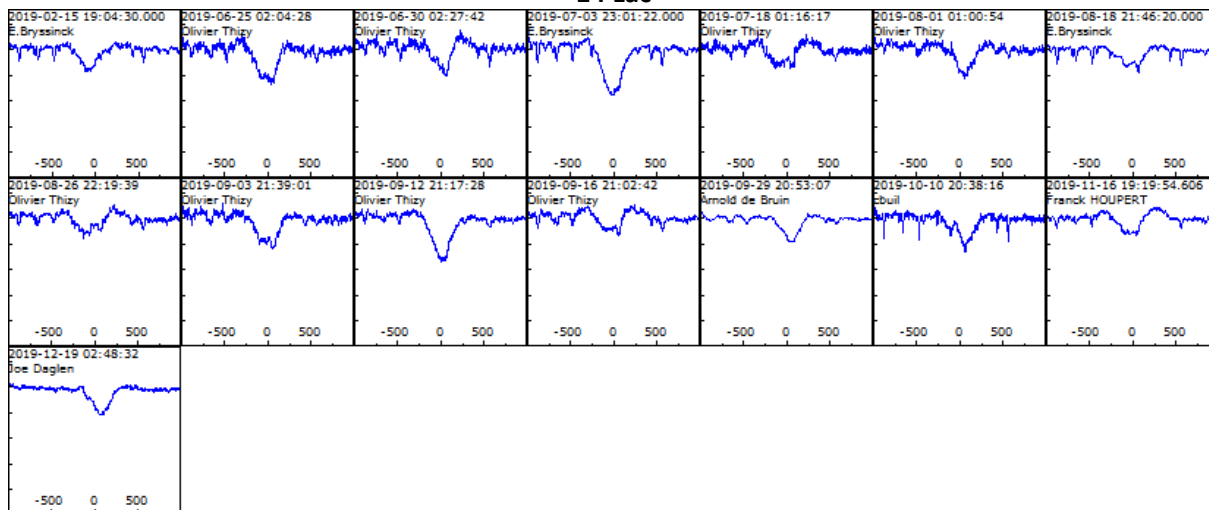
### PLEIONE



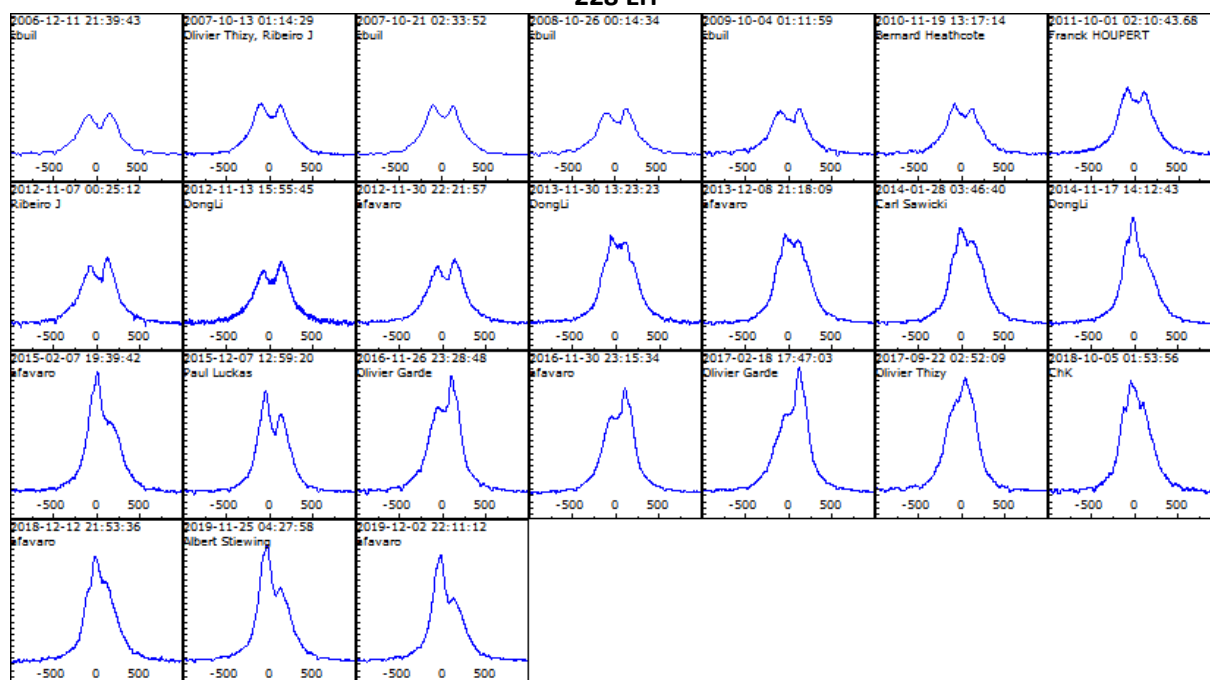
## V442 And



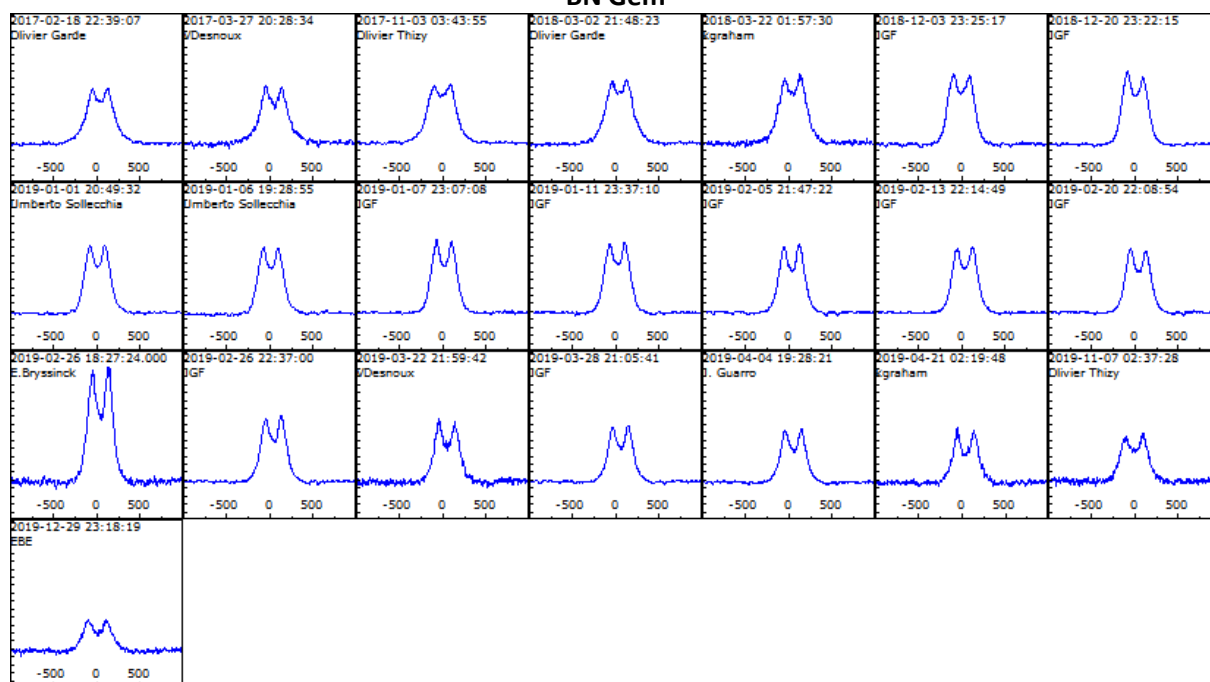
**14 Lac**



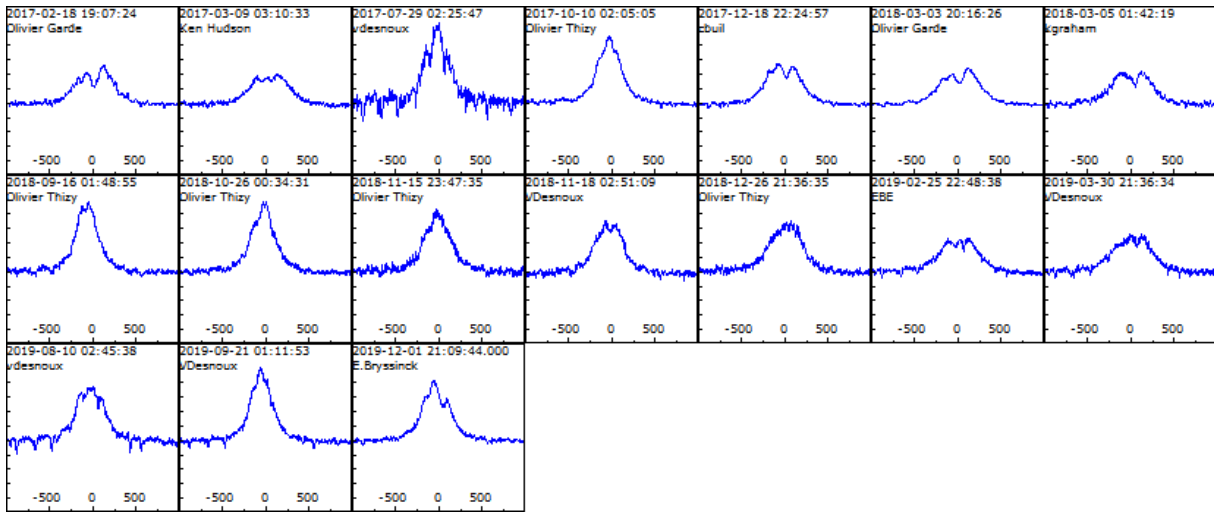
## 228 Eri



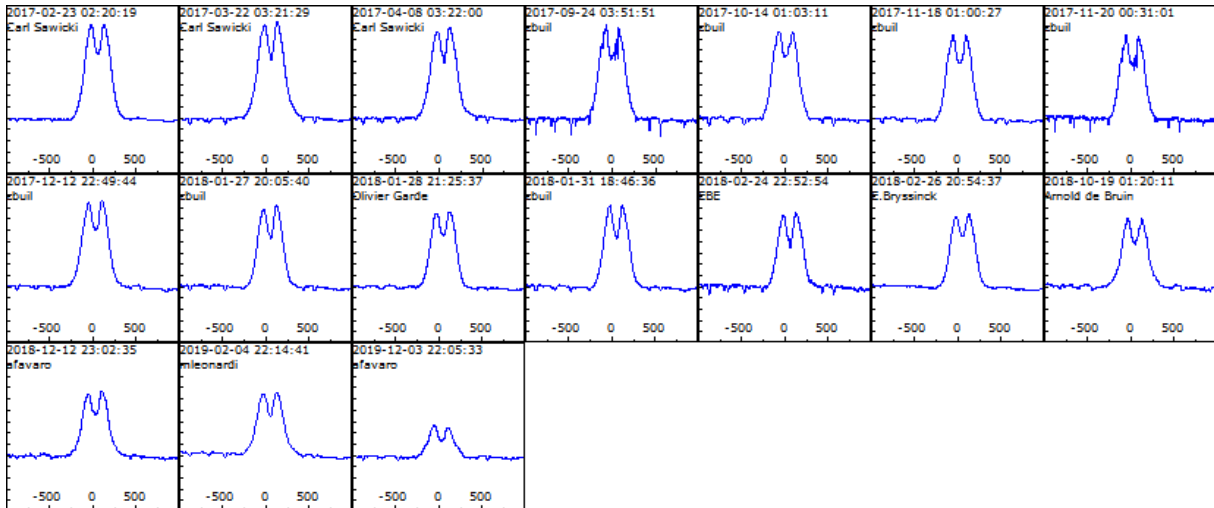
## BN Gem



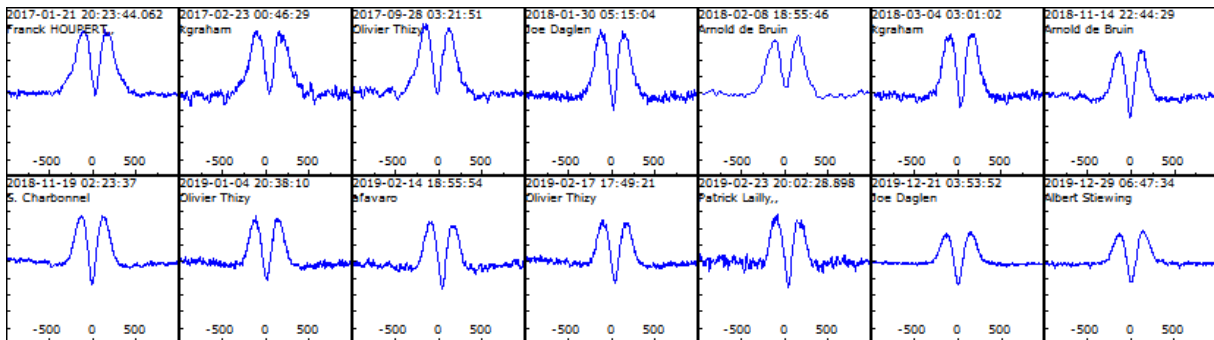
## 12 Aur



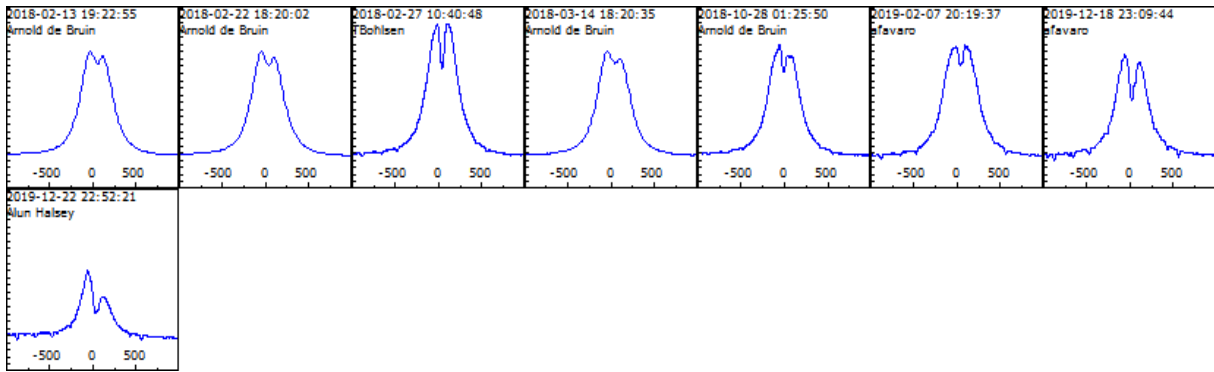
## ome Ori



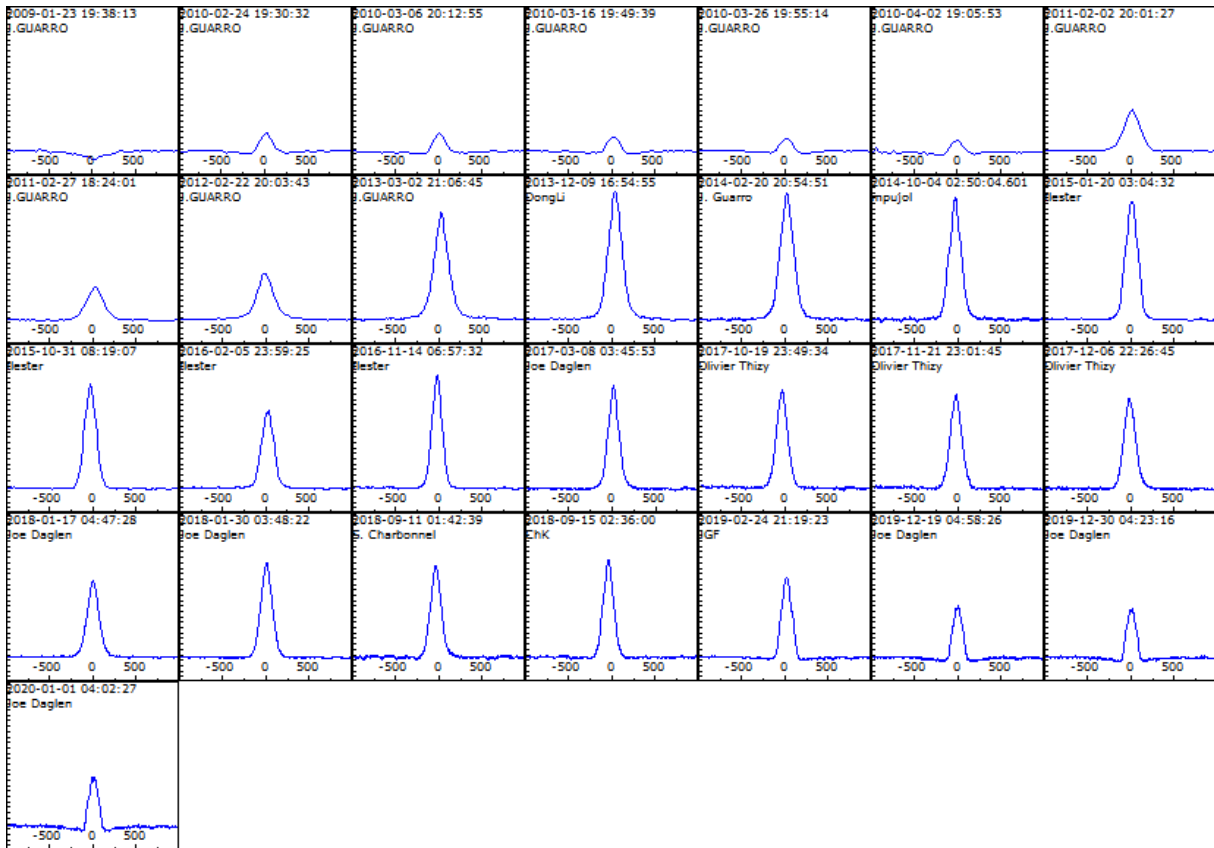
## V1369 Ori



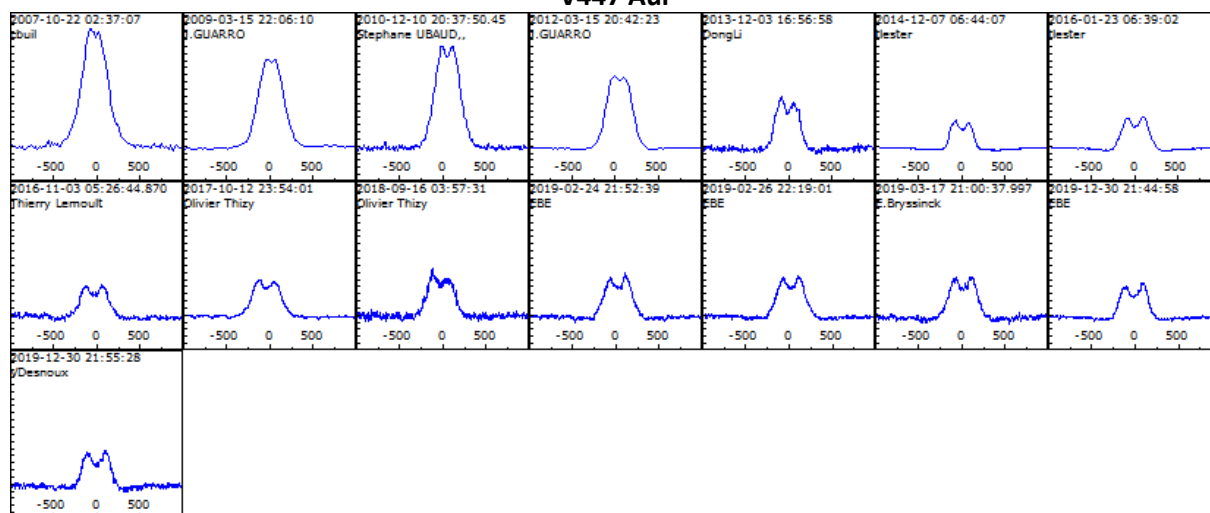
### bet Mon A



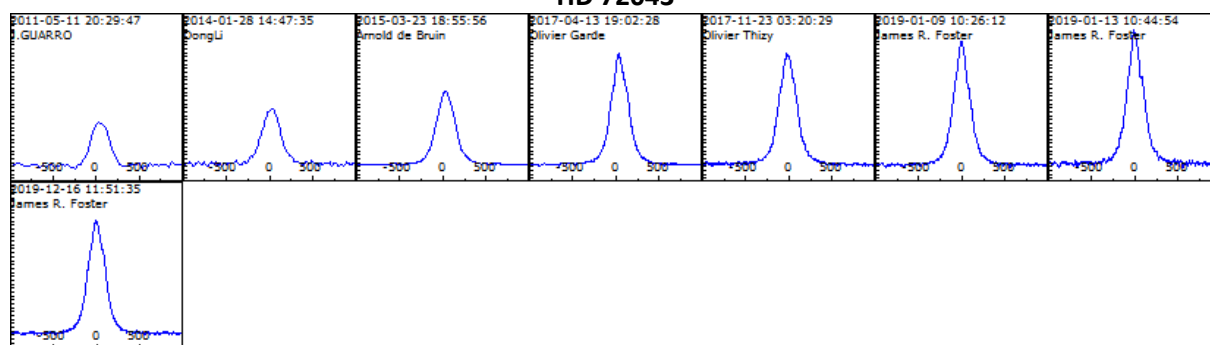
### V413 Aur



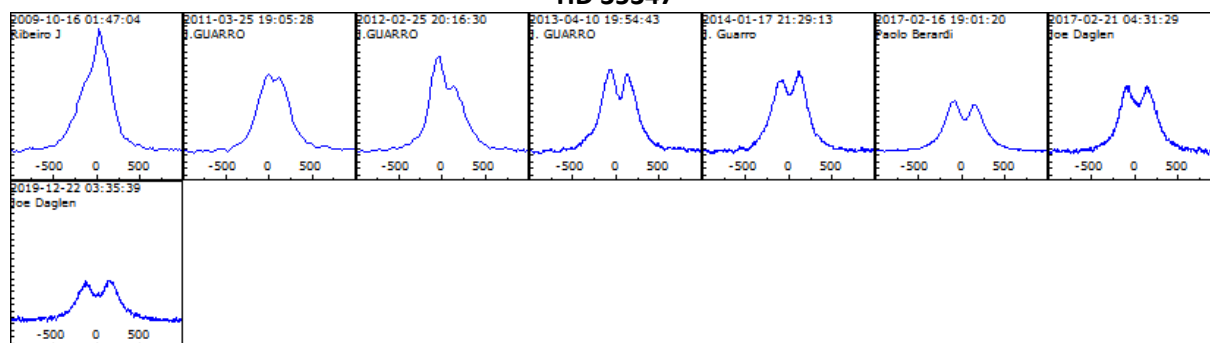
### V447 Aur



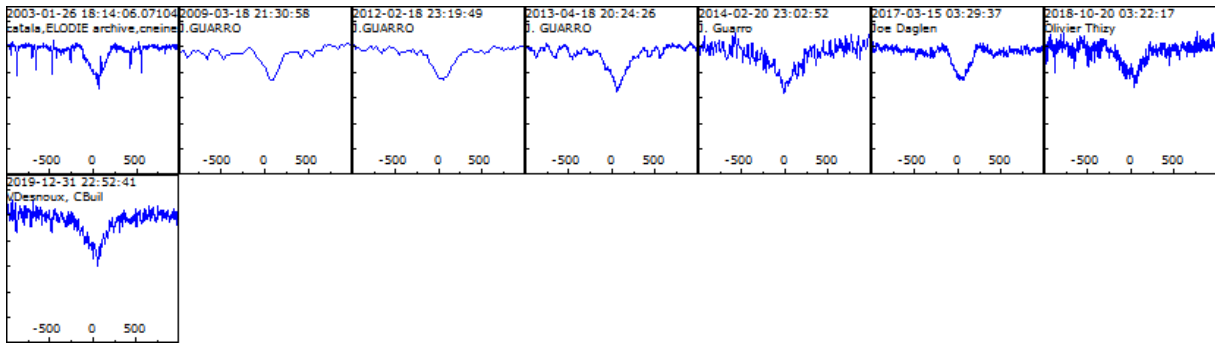
### HD 72043



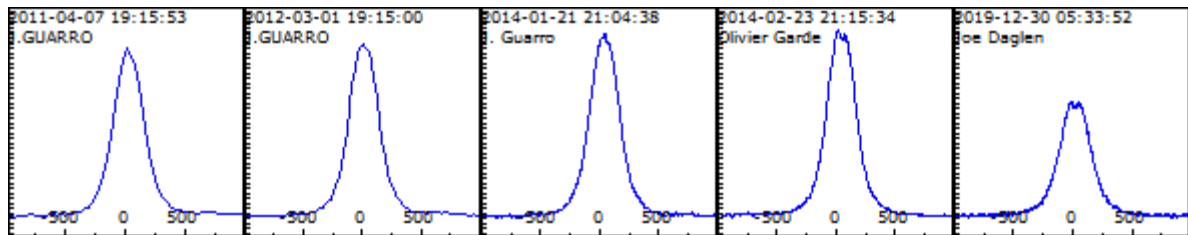
### HD 35347



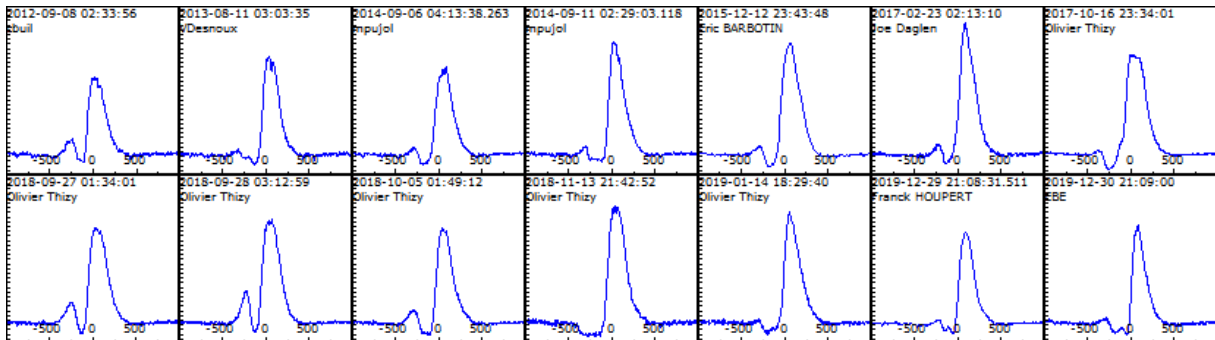
### HD 46484



### V1162 Tau



### HD 31648



### ***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/>