

## Log CHARA/VEGA 2014-30-09

### Configuration V1E1P1-V2E2P2-V3W1P1 (+CLIMB)

Trouble with dome W1

02:46UTC Check star = HD 189849

02:56UTC Vega aligned

03:04UTC Climb aligned

03:22UTC Can't find fringes

Not great seeing ~5cm

Still trying to find fringes, source about to go.

03:44UTC Moving to HD209409

03:55UTC On HD209409, cannot cophase with this.

04:18UTC Seeing not helping, moving to new cal HD211924

Climb\_B1=0.150

Climb\_B2=0.225

No science

### Configuration V1S2P5-V2S1P4 (+CLIMB)

05:03UTC moving to check star HD\_3360

5:23UTC cophasing complete

Climb\_B1 = 0.700

**V52 del cep**

Target = HD213306 cal=HD214734

The strategy is

C-S | S-C | C-S

700 670 620

[700nm](#)

HD213306CAL1S1S2.2014.09.30.05.18

10 blocks recorded

HD213306S1S.2014.09.30.05.54

10 blocks

[670nm](#)

HD213306S1S.2014.09.30.06.01

HD213306CAL1S1S2.2014.09.30.06.13

11 blocks

[620nm](#)

HD213306CAL1S1S2.2014.09.30.06.23

20 blocks

HD213306S1S.2014.09.30.06.37

20 blocks

Continued crashing of logs....

Now doing spectral calibration

[620nm](#)

D\_R2620.2014.09.30.06.54

Density filters:

Red = 2.0

Blue = 2.0

[670nm](#)

D\_R2670.2014.09.30.07.03

Recording 5sec before putting density.

Density filters:

Red = 2.0

Blue = 2.0

[700nm](#)

D\_R2700.2014.09.30.07.08

Density filters:

Red = 2.0

Blue = 2.0

Spectral calibration complete!!

**V27 eps aur**

07:12UTC Chris trying to find fringes for HD31964, too low it seems.

07:14UTC Going to HD22928

07:25UTC Still trying to find fringes for HD22928 (seeing ~8)

07:34UTC Fringes found!

CLIMB B\_1 = 0.200

EPSAURS1S2.2014.09.30.07.16

90 blocks

Fringes are at 500microns

07:45UTC Stopped vega tracking

seeing ~11

## Spectral calibration

D\_R1656.2014.09.30.08.23

Density filters:

Red = 2.0

Blue = 2.0

this calibration is removed afterwards, we keep latest at the end of the night.

V16 HD 24712

08:30UTC Back to S1S2

setting climb back to old

Climb\_B1=0.150

Climb\_B2=0.225

08:41UTC Climb aligned using cal HD\_18322

Fringes not found on HD18633 beam 2&3

09:02UTC Try to find fringes using HD16970

09:06UTC Fringes found.

HD2471CAL2E2E1W1.2014.09.30.08.34

Fringes are stable & seeing is ~8

Tracking stopped at Block 7

HD24172E2E1W1.2014.09.30.09.30

Pic are very faint

60 blocks

Seeing ~7

Fringe of climb not very stable

Tracking on

HD24712CAL3E2E1W1.2014.09.30.10.05

Very faint for climb and difficult to track

No fringes detected with vega

Spectral calibration.

D\_R2720.2014.09.30.11.00

V52 del cep

The plan

C-S | S-C | C-S | S-C  
700 670 750 620

Cal=HD214734 with E1E2 (for vega) and 2T or 3T for climb.

10:37UTC Going to HD214734 (cal)

10:48UTC Not much flux E2, low in sky.

10:53UTC Abandon plan and give up

Back to Eps aur...

**Configuration V1S2P5-V2S1P4 (+CLIMB)**

V27 eps aur

Climb\_B1 = 0.700

Problems with climb  
seeing ~14

11:26UTC Network problems, everything frozen...  
11:38UTC Jean Michel traces source to vpn chara side  
11:44UTC Chris restarts vpn box  
12:15UTC Back online....  
12:26UTC Finally start recording!!

EPSAURS1S2014.09.30.12.23

30 block  
and then cophase a bit better... sun rising

change climbe

Climb\_B1=0.200

good cophasing

EPSAURS1S2014.09.30.12.39

sun rising!

Spectral calibration

D\_R1656.2014.09.30.13.12

Density  
Red = 0  
Blue = 0

---