OBSERVING LOG CHARA/VEGA 2019-06-17

Observers: Frédéric et Roxanne, live from Calern Olli on the mountain

UT03h20: We are here and we open.

Configuration E2-POP3-B1 <u>W2-POP5-B2</u> W1-POP1-B3 V38 - Salsi

Target = HD145570 Cal1 = HD145607 Cal2 = HD143459

UT03h28: we go to the LABAO star HD146051.

UT03h42: alignement done. We go to the target star for the checking.

UT04h00: done. Going to cal 1.

UT04h03: fringes are there. Recording.

HD145607.2019.06.17.04.04

E2=3050, W1=1050, CLIMB B1=7.73, CLIMB B2=4.80.

we see 3 peaks, r0-9cm.

UT04h13: we got to the target.

HD145570.2019.06.17.04.16

E2=3250, W1=920, CLIMB_B1=7.73, CLIMB_B2=4.80.

We see 3 peaks!

UT04h26: go to cal 2.

HD143459.2019.06.17.04.27

E2=2890, W1=830, CLIMB B1=7.73, CLIMB B2=4.80.

3 peaks, r0~8.5cm.

UT04h36: back to target. **HD145570.2019.06.17.04.38**

E2=3150, W1=790, CLIMB B1=7.76, CLIMB B2=4.80.

We saw the 3rd peak! r0~10.5cm! Youhou!

UT04h49: back to cal 1.

HD145607.2019.06.17.04.50

E2=2800, W1=790, CLIMB_B1=7.77, CLIMB_B2=4.80.

Still 3 peaks and good conditions (r0~10.5 cm).

UT40h59: back to target. **HD145570.2019.06.17.05.00**

E2=3050, W1=690, CLIMB_B1=7.77, CLIMB_B2=4.81.

We see 2 peaks. r0~10.5cm.

UT05h10: back to cal 2. HD143459.2019.06.17.05.12

E2=2830, W1=640, CLIMB_B1=7.80, CLIMB_B2=4.82.

r0~11.5cm, ohala !- **UT05h22**: back to target.

HD145570.2019.06.17.05.23

E2=3050, W1=600, CLIMB_B1=7.80, CLIMB_B2=4.82.

r0~9cm.

UT05h32: back to cal 1.

HD145607.2019.06.17.05.33

E2=2780, W1=680, CLIMB_B1=7.80, CLIMB_B2=4.82.

Spectral calibration: R CMD.2016.06.17.05.44

Target = HD149438

Cal1 = HD148605

Cal2 = HD146624

Change of POP: E2-POP3 -> E2-POP1

UT05h45: we align on the target.

UT05h56: server trouble.

UT06h13: all set. We to cal 2. r0=14cm!!

HD146624.2019.06.17.06.18

E2=4130, W1=1390, CLIMB_B1=7.82, CLIMB_B2=4.84.

r0 dropped to 8cm.

UT06h28: we go to the target. **HD149438.2019.06.17.06.29**

E2=4200, W1=1320, CLIMB_B1=7.82, CLIMB_B2=4.84.

r0=8cm. We see 2 peaks, and also the 3rd one even if it is weak.

NB: the beam 1 is not pretty. **UT06h40**: we got to the cal 1.

HD148605.2019.06.17.06.41

E2=4140, W1=1150, CLIMB_B1=7.86, CLIMB_B2=4.85.

r0~9cm. 2 peaks.

UT06h50: we go to the target. **HD149438.2019.06.17.06.52**

E2=4320, W1=1340, CLIMB B1=7.88, CLIMB B2=4.85.

r0~10 cm.

UT07h01: back to cal 2.

UT07h17: no fringes yet. Realignment.

UT07h24: we finally have something. Recording.

HD146624.2019.06.17.07.23

E2=4460, W1=1560, CLIMB_B1=8.02, CLIMB_B2=4.92.

r0~11-12cm. The fringes are a bit weak anyway, but they are here.

UT07h32: to target again.

UT07h38: tracker problem? No photon...

UT07h41: Fred starts the tracker again and it finally works, we have photons.

HD149438.2019.06.17.07.42

E2=4430, W1=1440, CLIMB_B1=8.03, CLIMB_B2=4.93.

r0=9cm. We see 3 peaks! UT07h51: we go back to cal 1.

HD148605.2019.06.17.07.54

E2=4370, W1=1310, CLIMB_B1=8.06, CLIMB_B2=4.94.

r0~12 cm. Nice fringes. But they move on VEGA.

UT08h04: back to target. **HD149438.2019.06.17.08.07**

E2=4540, W1=1550, CLIMB B1=8.11, CLIMB B2=4.97.

Lost fringes at the end of the target.

No delay on the cals. No fringes W1W2 at bloc 10.

Spectral calibration: R CMD.2016.06.17.08.23

The fringes move a lot...LDCs on?

Target = HD160762 Cal1 = HD162579

Cal2 = HD161693

UT08h21: we change the target. We use it as LABAO and check star.

UT08h39: fringes are very far away on VEGA.

UT08h49: we finally have the fringes. We go to the cal 1.

HD162579.2019.06.17.08.48

E2=3850, W1=-610, CLIMB_B1=7.73, CLIMB_B2=4.91.

The r0 drops to ~6cm.

UT08h57: to target.

HD160762.2019.06.17.08.59

E2=3900, W1=-530, CLIMB_B1=7.80, CLIMB_B2=4.93.

Nice fringes.

UT09h10: we go to cal 2. **HD161693.2019.06.17.09.11**

E2=3910, W1=-530, CLIMB_B1=7.77, CLIMB_B2=4.93.

The r0 has dropped considerably, ~5cm now. Despite this, good fringes.

UT09h20: to target.

HD160762.2019.06.17.09.23

E2=3920, W1=-490, CLIMB B1=7.84, CLIMB B2=4.95

UT09h32: back to cal 1. **HD162579.2019.06.17.09.34**

E2=3830, W1=-520, CLIMB_B1=7.81, CLIMB_B2=4.95.

The r0 is still low, ~5cm. **UT09h44**: back to target. **HD160762.2019.06.17.09.46**

E2=3920, W1=-440, CLIMB_B1=7.89, CLIMB_B2=4.98

3 peaks. R0~5cm. **UT09h56**: we go to cal 2. **HD161693.2019.06.17.09.58**

E2=3970, W1=-420, CLIMB B1=7.89, CLIMB B2=4.98.

Nice fringes, r0~5cm. **UT10h08:** back to target. **HD160762.2019.06.17.10.09**

E2=3970, W1=-380, CLIMB_B1=7.94, CLIMB_B2=5.00.

UT10h18: we go to cal 1. **HD162579.2019.06.17.10.21**

E2=3900, W1=-390, CLIMB B1=7.90, CLIMB B2=5.00.

Spectral calibration: R_CMD.2016.06.17.10.32

Configuration E2-POP1-B1 <u>W2-POP5-B2</u> V67 - Creevey

Target = HD185264 Cal1 = HD178207 Cal2 = HD183534

UT10h34: we start with the LABAO=HD182564.

UT10h40: OPLE issue. UT10h47: we go to cal 1.

UT10h52: difficult to see the fringes on VEGA. R0~8cm.

HD178207.2019.06.17.10.52

E2=3800, CLIMB_B1=7.75, CLIMB_B2=5.00.

The fringes are 100 micron on the left.

We do 30 blocs because it's hard to see the fringes.

UT11h04: we have noticed that the fringes on VEGA have been moving a lot, since the middle on the night (~UT6h). Olli says: « it says they are on but indeed thy don't seem to be moving », « I wonder if it's because the way we're running the ref cart ». Then Olli checked that: « Now that I put in a ref cart position they moved ». Problem solved!

UT11h11: We go back to the check star then. **UT11h16**: we go to the target. r0~4.5cm:-S

HD185264.2019.06.17.11.25

E2=3320, CLIMB_B1=7.89, CLIMB_B2=5.00.

Fringes very bright and stable on CLIMB. We see the peak on VEGA after 10 blocs! But we record during 30 blocs anyway, and r0~4cm.

UT11h38: we go to cal 2. **HD183534.2019.06.17.11.40**

E2=3290, CLIMB_B1=7.89, CLIMB_B2=5.00.

Fringes are moving and are weak.

UT11h53: back target.

HD185264.2019.06.17.11.55

E2=3260, CLIMB_B1=7.89, CLIMB_B2=5.00.

UT12h08: back to cal 1. R0~4cm (we would have preferred cal 2).

UT12h21: still no fringes.

UT12h21: Too late now, we close.

Spectral calibration: D_CMR.2016.06.17.12.23

END OF THE NIGHT, END OF THE RUN