

Log CHARA/VEGA 2018-04-24

Observers : Fred (master), Anthony (public log-writer), Olli

(UT Hours)

02:30 In the control room, making coffee. It smells already good ...

02:45 Slewing to HD 108381 for alignment

03:20 Alignment VEGA ok

Configuration : E1P1B1 - W2P5B2 - W1P1B3(CLIMB tracking)

OPD offsets: 1st peak (left) = +150 μ m – 2nd peak (right) = -300 μ m

V16 (Karine Perraut)

Science : HD 108945

03:26 Aligning on **HD 108945**. Too early to observe ... need to wait until 04:00 UTC. We search for another check star.

03:42 Scanning for fringes on W1W2.

03:49 We get the fringes, but a bit weak ...

03:50 We have cophased. (Even if Fred is a brilliant observator, he was a bit lucky ... fringes were at 40 μ m).

03:58 We have delay ! Time to drink another coffee.

04:00 Scanning for fringes on E1W2.

04:07 Get the fringes.

04:12 Fringes cophased.

04:16 **HD108765.2018.04.24.04.14**

E1 = -800 W2 = -2400 CLIMB_B1 = 0.71 CLIMB_B2 = 1.27

Fringes were nice and stable.

20 blocks.

04:28 **HD108945.2018.04.24.04.28**

E1 = -655 W2 = -2290 CLIMB_B1 = 0.71 CLIMB_B2 = 1.27

R0 ~ 11. Nice fringes.

20 blocks.

04:54 **HD108765.2018.04.24.04.45**

E1 = -570 W2 = -2020 CLIMB_B1 = 0.75 CLIMB_B2 = 1.29

R0 ~ 9. Fringes not very stable ...

20 blocks.

05:08 **HD108945.2018.04.24.05.05**

Fred: "*They are not there these f***** fringes*"

E1 = -360 W2 = -1890 CLIMB_B1 = 0.75 CLIMB_B2 = 1.28

R0 ~ 10. Nice but less than previously.

20 blocks.

05:30 Olli "realigns" (frenghish translation).

05:41 Slight recophasing.

05:43 **HD108765.2018.04.24.05.41**

E1 = -330 W2 = -1570 CLIMB_B1 = 0.81 CLIMB_B2 = 1.30

R0 ~ 9. Correct fringes.

20 blocks.

05:55 Olli checks alignment on target

06:00 **HD108945.2018.04.24.05.59**

E1 = -90 W2 = -1450 CLIMB_B1 = 0.81 CLIMB_B2 = 1.30

R0 ~ 8. Gorgeous fringes !

20 blocks.

06:16 **HD108765.2018.04.24.06.16**

Some clouds appear in the South. May induce a bit less photons on VEGA. E1W2 peak might not be in right position ...

E1 = -260 W2 = -1280 CLIMB_B1 = 0.81 CLIMB_B2 = 1.30

R0 ~ 10. Correct fringes.

20 blocks.

06:29 **HD108945.2018.04.24.06.30**

Only for a few minutes (~ 5 minutes) due to faint observability

E1 = -130 W2 = -1220 CLIMB_B1 = 0.81 CLIMB_B2 = 1.30

5 blocks.

06:38 **Calibration : D_CM720.2018.04.24.06.37**

Configuration : E1P1B1 – E2P2B2 (CLIMB tracking)

OPD offset: 1st peak (left) = +150 μ m

V16 (Karine Perraut)

Science : HD 112185 (eps UMa)

06:44 VEGA and CLIMB alignment

06:49 Olli is searching for fringes

06:54 Get the fringes ! Too easy.

06:55 Cophasing.

06:57 **HD112185.2018.04.24.06.58**

0.3 density on both cameras

E1 = -340 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

20 blocks.

07:16 Hard to find fringes on kappa Dra (HD109387 Calib)

07:21 Yes, we finally did it ! Olli: "*Ok found them. They were just too faint for my settings.*"

07:22 **HD109387.2018.04.24.07.22**

E1 = -290 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

R0 ~ 8. Fred : "C'est un huitounet"

20 blocks.

07:35 ICS issue when setting densities.

07:39 **HD112185.2018.04.24.07.39**

0.3 density on both cameras

E1 = -290 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

20 blocks.

07:50 **HD109387.2018.04.24.07.51**

E1 = -300 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

R0 ~ 9.

20 blocks.

08:05 **HD112185.2018.04.24.08.05**

0.3 density on both cameras

E1 = -310 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

20 blocks.

08:17 **HD109387.2018.04.24.08.17**

E1 = -290 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

R0 ~ 9. Nice and stable fringes.

20 blocks.

08:30 **HD112185.2018.04.24.08.30**

0.3 density on both cameras

E1 = -320 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

20 blocks.

08:42 **HD109387.2018.04.24.08.42**

E1 = -260 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

R0 ~ 7. Aïe aïe aïe !

20 blocks.

08:53 **HD112185.2018.04.24.08.53**

0.3 density on both cameras

E1 = -330 CLIMB_B1 = 1.06 CLIMB_B2 = 1.30

20 blocks.

09:08 **HD109387.2018.04.24.09.08**

E1 = -270 CLIMB_B1 = 1.07 CLIMB_B2 = 1.30

R0 ~ 7.

20 blocks.

09:20 **HD112185.2018.04.24.09.20**

0.3 density on both cameras

E1 = -370 CLIMB_B1 = 1.07 CLIMB_B2 = 1.30

20 blocks.

09:34 **HD109387.2018.04.24.09.34**

E1 = -230 CLIMB_B1 = 1.07 CLIMB_B2 = 1.30

R0 ~ almost 6. Anthony: "*On assiste à un superbe coucher de franges*".

20 blocks.

09:47 **Calibration : D_CM720.2018.04.24.09.47**

Configuration : W2P5B2 – W1P1B3 (CLIMB tracking)

OPD offset: 1st peak (left) = +150 μ m

V67 (Orlagh Creevey)

Science : HD 162003

09:50 LABAO done

09:54 VEGA and CLIMB alignment

09:58 Alignment ok. Search for fringes.

09:59 Cophasing ok !

09:59 **HD162003.2018.04.24.09.59**

E1 = -2130 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ 8.

20 blocks.

10:14 **HD146926.2018.04.24.10.14**

E1 = -1850 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ 8.

20 blocks, but the last one is **bad**.

10:25 **HD162003.2018.04.24.10.25**

E1 = -2080 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ 8.

20 blocks.

10:36 **HD145454.2018.04.24.10.38**

E1 = -1670 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ almost 10.

10:50 **HD162003.2018.04.24.10.50**

E1 = -2010 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ 10.

20 blocks.

11:03 **HD146926.2018.04.24.11.02**

E1 = -1780 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ 11. Oh !

20 blocks.

11:15 **HD162003.2018.04.24.11.15**

E1 = -1930 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ almost 13 !

20 blocks.

11:28 **HD145454.2018.04.24.11.28**

E1 = -1540 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ 12.

11:39 **HD162003.2018.04.24.11.40**

E1 = -1870 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ 10.

20 blocks.

11:03 **HD146926.2018.04.24.11.53**

E1 = -1650 CLIMB_B1 = 1.06 CLIMB_B2 = 1.11

R0 ~ 11.

20 blocks.

12:04 **Calibration : D_CM720.2018.04.24.12.04**

12:25 Cophasing on S2W2 configuration

S2 = +3560 CLIMB_B1 = 0.55 CLIMB_B2 = 1.12