

## Log CHARA/VEGA 2018-04-25

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

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(UT Hours)

02:37 In the control room, Olli is ready !

02:44 Telescopes S1 S2 W1 ready too.

**Configuration : S2P5B1 – S1P4B2 (Climb tracking)**

**OPD offset: 1st peak (left) = +150 $\mu$ m**

**V66 (Anthony Meilland)**

**Science : HD 45542**

03:05 The star is locked in. Labaos done. We start aligning VEGA.

03:19 Fred “breaks the fuse” because of the alignment.

03:22 Alignment OK. Checking for fringes on VEGA.

03:37 Cophasing OK.

03:37 HD45542.2018.04.25.03.36

**E1 = 1730 CLIMB\_B1 = 1.53 CLIMB\_B2 = 1.12**

Record aborted. Problem with the blue camera: it did not start recording.

**File deleted**

03:48 **HD45542.2018.04.25.03.48**

Strong cloud coverage. Then ~10 first blocks are good quality.

**E1 = 1700 CLIMB\_B1 = 1.53 CLIMB\_B2 = 1.12**

20 blocks.

04:11 **Calibration : D\_CM656.2018.04.24.04.11**

## Configuration : E1P1B1 - W2P5B2 - W1P1B3 (Climb tracking)

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

**V16 (Karine Perraut)**

### Science : HD 108662

04:14 There are strong flux variations due to bad weather conditions. We can not align properly.

04:51 Clouds, clouds, clouds .... and clouds.

04:55 Oh ! What can I see ?! It's ... a cloud !

05:01 VEGA Alignment OK !

05:16 Get the fringes with VEGA.

05:18 **HD108662.2018.04.25.04.13**

**E1 = -260 W2 = -1830 CLIMB\_B1 = 0.79 CLIMB\_B2 = 1.29**

20 blocks.

05:38 **HD108765.2018.04.25.05.38**

**E1 = -290 W2 = -1590 CLIMB\_B1 = 0.79 CLIMB\_B2 = 1.29**

R0 ~ 24 (?!?!?!)

Detection of a **third peak !**

20 blocks.

05:50 **HD108662.2018.04.25.05.51**

**E1 = -40 W2 = -1510 CLIMB\_B1 = 0.83 CLIMB\_B2 = 1.30**

R0 ~ 25

20 blocks.

06:08 **HD108765.2018.04.25.06.06**

**E1 = -190 W2 = -1330 CLIMB\_B1 = 0.79 CLIMB\_B2 = 1.29**

R0 ~ 24

20 blocks.

06:18 **HD108662.2018.04.25.06.19**

**E1 = -50 W2 = -1270 CLIMB\_B1 = 0.83 CLIMB\_B2 = 1.30**

R0 ~ 25

20 blocks. E1W2 fringes might be lost on 2 last blocks.

06:45 **HD125658.2018.04.25.06.44**

**E1 = -280 W2 = -2020 CLIMB\_B1 = 0.79 CLIMB\_B2 = 1.29**

R0 ~ 24

20 blocks.

06:55 **Calibration : D\_CM720.2018.04.25.06.55**

## **Configuration : S2P1B1 - W2P5B2 (Climb tracking)**

**OPD offset: 1st peak (left) = +150 $\mu$ m**

**V01 (Roxanne Ligi)**

**Science : HD 97658**

07:06 Labao done.

07:09 VEGA alignment.

07:18 Get the (nice) fringes. Cophasing OK.

07:22 **HD96738.2018.04.25.07.21**

**S2 = 2200 CLIMB\_B1 = 0.50 CLIMB\_B2 = 1.12**

R0 ~ 24

20 blocks.

07:33 **HD97658.2018.04.25.07.33**

**S2 = 2220 CLIMB\_B1 = 0.50 CLIMB\_B2 = 1.12**

R0 ~ 27 (Olé !)

20 blocks.

07:44 **HD96738.2018.04.25.07.44**

**S2 = 2200 CLIMB\_B1 = 0.50 CLIMB\_B2 = 1.12**

R0 ~ 23

20 blocks.

07:47 Central control crashed.

07:55 **HD97658.2018.04.25.07.55**

**S2 = 2080 CLIMB\_B1 = 0.50 CLIMB\_B2 = 1.12**

R0 ~ 24

20 blocks. SNR ~ 9 ! Very good.

08:07 Problem with central control: UT is not running.

08:14 **HD96738.2018.04.25.08.14**

**S2 = 1970 CLIMB\_B1 = 0.50 CLIMB\_B2 = 1.12**

R0 ~ 33 (Ok, why not)

20 blocks.

08:25 **HD97658.2018.04.25.08.25**

**S2 = 2010 CLIMB\_B1 = 0.50 CLIMB\_B2 = 1.12**

R0 ~ 33

20 blocks.

08:37 **HD96738.2018.04.25.08.37**

**S2 = 1890 CLIMB\_B1 = 0.50 CLIMB\_B2 = 1.12**

R0 ~ 33 (Ok, why not)

20 blocks.

08:54 **Calibration : D\_CM720.2018.04.25.08.48**

**Configuration : W2P5B2 - W1P2B3 (Climb tracking)**

**OPD offset: 1st peak (left) = +150 $\mu$ m**

**V16 (Karine Perraut)**

**Science : HD 112185**

08:57 Labao done, ready for aligning.

09:00 Vega alignment OK.

09:02 Cophasing OK.

09:02 **HD109387.2018.04.25.09:02**

W2 = -1650 **CLIMB\_B1 = 1.05 CLIMB\_B2 = 1.10**

Aborted because Zoot crashed.

**File deleted**

09:30 Zoot restarted.

09:35 Carts rehoming.

09:37 Fred told a joke that I did not follow. Please help me.

09:45 **HD109387.2018.04.25.09:44**

W2 = -1520 **CLIMB\_B1 = 1.05 CLIMB\_B2 = 1.10**

R0 ~8

20 blocks.

09:58 **HD112185.2018.04.25.09.57**

W2 = -1190 **CLIMB\_B1 = 1.05 CLIMB\_B2 = 1.10**

0.3 density on both cameras

R0 ~ 8

20 blocks.

10:10 **HD109387.2018.04.25.10.09**

W2 = -1480 **CLIMB\_B1 = 1.05 CLIMB\_B2 = 1.10**

R0 ~8

20 blocks.

10:23 **HD112185.2018.04.25.10.23**

W2 = -1150 **CLIMB\_B1 = 1.05 CLIMB\_B2 = 1.10**

0.3 density on both cameras

R0 ~ 4

20 blocks.

10:31 Olli about R0 values "*Sounds like something is sucking out the Earth's atmosphere*"

10:35 **HD109387.2018.04.25.10.35**

W2 = -1450 **CLIMB\_B1 = 1.05 CLIMB\_B2 = 1.10**

20 blocks.

10:45 **Calibration : D\_CM720.2018.04.25.10.45**

**Configuration : E1P1B1 – W2P5B2 - W1P2B3 (Climb tracking)**

**OPD offsets: 1st peak (left) = +150 $\mu$ m – 2nd peak (right) = -300 $\mu$ m**

**V67 (Orlagh Creevey)**

**Science : HD 171384**

10:55 Labaos done, ready for aligning.

11:01 VEGA alignment done.

11:02 Scanning fringes.

11:15 Get the fringes

11:16 **HD171301.2018.04.25.11.16**

E1 = -240 W2 = -1960 **CLIMB\_B1 = 0.74 CLIMB\_B2 = 1.25**  
20 blocks.

11:36 **HD171384.2018.04.25.11.35**

E1 = 20 W2 = -1840 **CLIMB\_B1 = 1.05 CLIMB\_B2 = 1.10**  
13 blocks. Clouds from block 12 ...

11:40 **Clouds.**

12:01 Still waiting for flux ...

12:16 End of observations.

12:17 Calibration : D\_CM720.2018.04.25.12.08