



Today, **Anthony** takes control of the observations for a while! We are not responsible for the inconvenience that could occur, and we hope that the data will be of good quality nevertheless :-)

## Log CHARA/VEGA 2018-04-29

Observers: Fred (Master), Anthony (Commander), Olli (CHARA)

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(UT Hours)

02:30 Arrival in the control room.

02:31 We received a message from Olli, see below.

### **Major problem : ctrscrut crash**

02:04 on Skype Olli: *"Hello guys, just to let you know that we've had a ctrscrut crash (probably!) and we're rebooting and troubleshooting the issue at the moment with Matt and Nils. It'll take a while to get it all sorted out, I'd say it'll be at least an hour but probably more. Sorry about the delay!"*

03:48 Olli: *"Ok so we're at a stage where I'm going to attempt to get things started"*

04:06 Olli: *"Ok so more trouble... just got an email from Nils that the periscopes I need to change the pops aren't working, we'll have to get those fixed next"*

### **04:30 Problem solved**

Olli: *"It was very bad earlier. Some of the lab hardware is still not fixed. I was very lucky to get a hold of Nils, he fixed some of software issues remotely"*

04:31 We can start the observations.

## Configuration : E1P1B1 - E2P2B2(CLIMB tracking)

OPD offset: 1<sup>st</sup> peak (left) = +150 $\mu$ m

### V73 (Massinissa Hadjara)

#### Science : HD HD 87901

04:40 LABAOs done.

04:53 VEGA alignment OK.

05:00 Olli does not find the fringes on CLIMB.

05:11 Olli restarted the VME because the ctrscrut crashed so it needs a fresh connection.

05:30 Olli get the fringes ! Cophasing OK.

05:35 **HD87901.2018.04.29.04.53**

**E1 = -1880 CLIMB\_B1 = 1.25 CLIMB\_B2 = 1.31**

Central control crashed during record.

Neutral density 0.3

20 blocks.

05:51 **HD87901.2018.04.29.05.46**

**E1 = -1900 CLIMB\_B1 = 1.25 CLIMB\_B2 = 1.31**

Neutral density 0.3

20 blocks.

06:04 Central control crashed during starting sequence.

06:07 Some clouds appear => decreasing in the number of counts.

06:08 **HD87901.2018.04.29.06.08**

**E1 = -1850 CLIMB\_B1 = 1.25 CLIMB\_B2 = 1.31**

Neutral density 0.3

20 blocks.

06:19 **Humidity reaches 81%**. We technically have to stop but Olli wants to record one more data and see the evolution.

06:20 Central control crashed during starting sequence.

06:25 **HD87901.2018.04.29.06.25**

**E1 = -1848 CLIMB\_B1 = 1.26 CLIMB\_B2 = 1.31**

Neutral density 0.3

20 blocks.

06:34 Standby because of the humidity. We wait for the agreement of Olli to restart observations.

=> **The R0 oscillates between 4 and 6 for the 4 previous records.**

06:47 **Calibration : D\_CM656.2018.04.29.06.47**

**Configuration : E1P1B1 - E2P2B2(CLIMB tracking)**

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

**V16 (Karine Perraut)**

**Science : HD 112185**

08:20 **Unfortunately, Anthony takes control of the observations...**

08:24 **Surprisingly, he did a great job !!! What a wonderful student...**

(Fred : let me say it's autocongratulation)

08:25 **HD109387.2018.04.29.08.25**

**E1 = -1140 CLIMB\_B1 = 01.09 CLIMB\_B2 = 1.31**

20 blocks.

08:28 Olli re-aligns NIRO.

08:40 **HD112185.2018.04.29.08.40**

**E1 = -1170 CLIMB\_B1 = 1.10 CLIMB\_B2 = 1.31**

**Central control crashed during the record.**

R0 ~ 4

20 blocks.

08:54 **HD109387.2018.04.29.08.54**

**E1 = -1200 CLIMB\_B1 = 01.06 CLIMB\_B2 = 1.31**

Central control crashed during the record.

20 blocks.

09:12 **Calibration : D\_CM720.2018.04.29.09.12**

**Configuration : E1P2B1 - E2P2B2 - W2P4B3(CLIMB tracking)**

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

**V52 (Nardetto & Salsi)**

**Science : HD 187921**

09:10 LABAOs done.

09:13 Search for fringes with CLIMB.

09:30 VEGA alignment OK.

09:42 We go to target to find fringes with CLIMB.

09:48 Go to cal for cophasing.

09:54 Almost no fringes on cal with CLIMB. The same for VEGA.

**=> We give up. Bad seeing R0 ~ 3**

**Configuration : E1P2B1 - E2P2B2 - W2P4B3(CLIMB tracking)**

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

**V71 (Robert Klement)**

**Science : HD 187982**

10:25 Aligning on check star HD 176437.

10:27 Try to find fringes on CLIMB

10:31 Olli get fringes with CLIMB. They are faint and unstable ..

10:33 Fringes difficult to find with VEGA.

10:50 Tracker crashed when send commands to OPLE.

10:53 Communication with ICS impossible. Rebooting ICS.

10:58 Scanning with the POS buttons of CLIMB.

11:13 Central control crashed.

11:27 Impossible to confirm fringes on VEGA ... but they should be there.

11:28 Seeing still around ~4. Very bad tracking on CLIMB.

11:48 Olli: *"The W2 server died, and the slit closed by itself, leaving the optics exposed. I'll have to close the optics, open the slit and then open the optics again"*

12:16 **HD187983.2018.04.29.12.16**

**E1 = -170 E2 = 1660 CLIMB\_B1 = -0.04 CLIMB\_B2 = 0.28** (not confirmed values)

R0 ~ 4

23 blocks.

**Don't consider this file, probably no E1E2 fringes.**

**=> Notice that the file is named "HD187983..." due to bad HD number entry in CHARA database. But it corresponds to the star HD187982 (we verified with Olli the V and K magnitudes).**