Log CHARA/VEGA 2018-04-28

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

(UT Hours)

02:27 Arrival in the control room.
02:32 Olli has already a Zoot crash and problems with servers.
02:41 VEGA is ready.

> **02:47 Major problem : Olli can not start tiptilts ...**

03:53 Olli: "*Ok so I've consulted Norm and Matt about these problems, and gone through all the suggestions they provided. I still can't get a signal rate from the scopes, nor scope status of the slits/covers. Something unusual is going on. Chris is on vacation and it's very unlikely I can get a hold of anyone else. I will try to go through the steps again to get everything going, but this seems like a possible fault that I might not be able to fix*"

> **04:35 Problem solved**

04:40 Olli: "*It was a relatively simple fix, but a highly unusual one. I'll have to warn you, everything still isn't as it seems. There might be more problems later tonight related to this*"

Configuration : E2P3B2 - W2P5B2(CLIMB tracking)

OPD offset: 1st peak (left) = +150μm

V01 (Roxanne Ligi)

Science : HD 97658

05:00 Aligning VEGA on check star (HD 95608).
05:10 New problem with tiptilts.

05:20 LABAOs done.
05:21 Aligning VEGA
05:24 Another tiptilts failure.

05:44 **HD96738.2018.04.28.05.44**
E2 = -600 CLIMB_B1 = 0.81 CLIMB_B2 = -0.05
R0 ~ 38 (Oh, really?!)
20 blocks.

05:56 **HD97658.2018.04.28.05.56**
E2 = -560 CLIMB_B1 = 0.81 CLIMB_B2 = -0.05
20 blocks.

06:09 **HD96738.2018.04.28.06.09**
E2 = -810 CLIMB_B1 = 0.81 CLIMB_B2 = -0.01
20 blocks.

06.20 **HD97658.2018.04.28.06.20**
E2 = -800 CLIMB_B1 = 0.81 CLIMB_B2 = -0.01
20 blocks.

06:34 **HD96738.2018.04.28.06.34**
E2 = -1050 CLIMB_B1 = 0.81 CLIMB_B2 = -0.02
20 blocks.

06:45 **Calibration : D_CMR720.2018.04.28.06.45**

Configuration : S2P1B1 - E2P5B2 - W2P5B3 - W1P1B4(CLIMB tracking)

OPD offsets: 1st peak (left) = +300µm - 2nd peak (1st right) = -150µm - 3rd peak (2nd right) = -450µm

V65 (Denis Mourard)

Science : HD 185912

07:05 LABAOs done.
07:06 Aligning VEGA.
07:33 We have the fringes.
07:40 Cophasing OK.

08:01 **HD177003.2018.04.28.08.01**
S2 = 3960 E2 = 1680 W1 = 1710 CLIMB_B1 = 0.06 CLIMB_B2 = 0.09
20 blocks.

08:12 Central control crashed
08:13 NIRO crashed …

08.39 **HD185912.2018.04.28.08.39**
S2 = 3920 E2 = 1470 W1 = 1660 CLIMB_B1 = 0.06 CLIMB_B2 = 0.09
=> Transient fringes, bad CLIMB tracking
VEGA tracking really difficult …
Central control crashed during the record.
40 blocks.

09:14 **HD177003.2018.04.28.09.14**
S2 = 3810 E2 = 1270 W1 = 1440 CLIMB_B1 = 0.04 CLIMB_B2 = 0.09
20 blocks.
Good quality, nice fringes, easy to track.

09:25 **Calibration : D_CMR720.2018.04.28.09.25**

Configuration : S2P2B1 - E2P4B2 - W2P5B3 - W1P1B4(CLIMB tracking)

OPD offsets: 1st peak (left) = +300µm - 2nd peak (1st right) = -150µm - 3rd peak (2nd right) = -450µm

V52 (Nicolas Nardetto & Anthony Salsi)

Science : HD 180583

09:38 LABAOs done.
09:47 Aligning VEGA.

10:14 **HD185872.2018.04.28.10.14**
S2 = 4110 E2 = 1500 W1 = 1440 CLIMB_B1 = 0.11 CLIMB_B2 = 0.10
20 blocks.

10:42 **HD180583.2018.04.28.10.31**
S2 = 3750 E2 = 1510 W1 = 1310 CLIMB_B1 = 0.11 CLIMB_B2 = 0.10
40 blocks.

10:56 **HD185872.2018.04.28.10.56**
S2 = 3770 E2 = 1500 W1 = 1440 CLIMB_B1 = 0.11 CLIMB_B2 = 0.10
20 blocks.

11.07 **Calibration : D_CMR720.2018.04.28.11.07**

Configuration : S2P2B1 - E2P4B2 - W2P5B3 - W1P1B4(CLIMB tracking)

OPD offsets: 1st peak (left) = +300μm - 2nd peak (1st right) = -150μm - 3rd peak (2nd right) = -450μm

V65 (Denis Mourard)

Science : HD 185912

11:11 LABAOs done.
11:13 VEGA alignment.

11:25 **HD177003.2018.04.28.11.25**
S2 = 3520 E2 = 770 W1 = 730 CLIMB_B1 = 0.11 CLIMB_B2 = 0.13
Bad tracking.
20 blocks.

12:08 **HD185912.2018.04.28.12.08**
S2 = 3700 E2 = 670 W1 = 640 CLIMB_B1 = 0.11 CLIMB_B2 = 0.11
=> CLIMB does not find S2 fringes, Olli continues to scan, recording with B1 shutter closed
40 blocks.

12.29 **Calibration : D_CMR720.2018.04.28.12.29**