

Log CHARA/VEGA 2020-08-29

Observers: Fred, Dinil (VEGA), Olli (Mt Wilson)

Summary: At the middle of the first observation program, CLIMB had some issues with the clock which couldn't be resolved. So we used VEGA for tracking the fringes for the entire night. We spent the night on programs V67 and V38.

- V67: 1 X S2W2 Target: HD164507
 - V38 5 X S2W2 Target: HD 3360
 - V38 3 X S2W2 Target = HD 33959A
 - 3 spectral calibrations [MR@720nm](#)
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UTC TIME:

02:49: Aligning

02:51: Aligning VEGA.

03:00: Found Fringes, Co-phased

S2 Pop 4 B1 – W2 Pop 5 B2 (W2-ref)

V67 (O. Creevey) – HD164507

Target = HD164507

Cal1 = HD170878

Cal2 = HD171301

Align = HD166182

Check = HD166182

Recording

03:09: CAL1 HD170878 **HD170878.2020.08.29.03.09** S2: -1290 micron. Climb B1 7.39mm. Climb B2 4.81mm. 30 blocks. Fringes are weak on VEGA.

03:32: Target HD164507 **HD164507.2020.08.29.03.32** S2: -970 micron. 30 blocks. Climb and Vega fringes are weak. Tracking is bad.

04:05: Lost spots, Slewing to bright star to get it back.

04:33: Olli goes to the lab to fix problems.

D_CM720.2020.08.29.06.25 Spectral calibration @ 720 nm medium res.

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06:22: Switching to Next Program

S2 Pop 2 B2 – W2 Pop 5 B3 (W2-ref)
V38 (A. Salsi) – HD 3360

Target = HD 3360

Cal1 = HD 3240

Cal2 = HD 2054

Align = HD 3240

Check = HD 3240

06:51: No Fringes in W2. Home the W2

07:10: Climb clock is ahead now for 2 minutes. Unable to sync

07:26: Restarted Climb. Problem is not fixed.

07:40: Tracking with Vega

07:52: Target HD3360 **HD3360.2020.08.29.07.52** S2: -1300 micron. Tracking with VEGA. Fringes are moving a lot. Cart movement looks like poor but errors are small. 20 blocks.

08:21: CAL1 HD3240 **HD3240.2020.08.29.08.21** S2: -1220 micron. Tracking with VEGA. 20 blocks.

08:40: Target HD3360 **HD3360.2020.08.29.08.40** S2: -1150 micron. Tracking with VEGA. Tracking is good. 20 blocks.

09:13: CAL2 HD2054 **HD2054.2020.08.29.09.13** S2: -980 micron. We are not sure about fringes. 20 blocks.

09:14: Seeing is not good. Both scopes report about 4 and the AO spots are restless.

09:20: Climb is not up yet. Clock card seems to be off.

09:31: Target HD3360 **HD3360.2020.08.29.09.31** S2: -890 micron. Tracking with VEGA. 20 blocks.

09:48: CAL1 HD3240 **HD3240.2020.08.29.09.48** S2: -860 micron. Tracking with VEGA. Tracking is good. Fringes are good. 20 blocks.

10:04: Target HD3360 **HD3360.2020.08.29.10.04** S2: -800 micron. Tracking with VEGA. 20 blocks.

10:39: CAL1 HD3240 **HD3240.2020.08.29.10.39** S2: -710 micron. Tracking with VEGA. 20 blocks.

10:54: Target HD3360 **HD3360.2020.08.29.10.54** S2: -550 micron. Tracking with VEGA. 20 blocks.

D_CM720.2020.08.29.11.12 Spectral calibration @ 720 nm medium res.

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S2 Pop 2 B2 – W2 Pop 5 B3 (W2-ref)
V38 (A. Salsi) – HD 33959A

Target = HD 33959A

Cal1 = HD 34578

Cal2 = HD 35520

Align = HD 34578

Align = HD 34578

11:45: Target HD33959A **HD33959.2020.08.29.11.45** S2: -1300 micron. Tracking with VEGA. 20 blocks.

12:02: CAL1 HD34578 **HD34578.2020.08.29.12.02** S2: -1740 micron. Tracking with VEGA. 20 blocks.

12:16: Target HD33959A **HD33959.2020.08.29.12.16** S2: -1650 micron. Tracking with VEGA. 20 blocks.

12:35: CAL1 HD34578 **HD34578.2020.08.29.12.35** S2: -1590 micron. Tracking with VEGA. 20 blocks.

12:50: Target HD33959A **HD33959.2020.08.29.12.50** S2: -1520 micron. Tracking with VEGA. 20 blocks.

D_CM720.2020.08.29.13.01 Spectral calibration @ 720 nm medium res.

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