

Log CHARA/VEGA 2020-08-30

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

Summary: Problems with the CLIMB remains the same. So we used Vega to track fringes for the entire day. We spent the night on programs V70, V67 and V38.

- V70: 3 X W1W2 Target = HD193237 (P Cygni)
 - V67: 3 X E2W2 Target = HD 5015
 - V38: 3 X E2W2 Target = HD 3360
 - V38: 5 X E2W2 Target = HD 35468
 - 3 spectral calibrations [MR@720nm](#)
 - 1 spectral calibration [MR@656nm](#)
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UTC TIME:

02:56: Trying to have better pupil on W1.

02:57: Aligning.

03:11: 4th step in Climb is still lost.

03:26: Trying to find Fringes with Climb.

03:32: Scanning with Vega.

03:37: Found fringes with Vega.

Tracking with Vega

W1 Pop 1 B2 - W2 Pop 5 B3 (W2-ref)

V70 (R. Klement) – HD193237 (P Cygni)

Target = HD193237 (P Cygni)

Cal1 = HD193369

Cal2 = HD195050

Align = Target

Check = Target

03:39: Target **HD193237.2020.08.30.03.39** W1: -2250 micron. Seeing is around ~8-9. Tracking is good. 30 blocks.

04:02: CAL1 HD193369 **HD193369 .2020.08.30.04.02** W1: -2050 micron. Tracking and fringes are good. 20 blocks.

04:18: Target **HD193237.2020.08.30.04.18** W1: -1960 micron. Tracking and fringes are good. 30 blocks.

04:38: CAL2 HD195050 **HD195050.2020.08.30.04.38** W1: -1830 micron. 20 blocks.

04:55: Target **HD193237.2020.08.30.04.55**. W1: -1640 micron. 30 blocks.

05:18: CAL1 HD193369 **HD193369 .2020.08.30.05.18** W1: -1470 micron. Fringes are weak. 20 blocks. Fringes are moving a lot.

D_CM656.2020.08.30.05.32 Spectral calibration @ 656 nm medium res.

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S2 Pop 4 B1 – W2 Pop 5 B2 (W2-ref)

V67 (O. Creevey) – HD164507

Target = HD 5015

Cal1 = HD 3240

Cal2 = HD 223128

Align = HD 3240

Check = HD 3240

05:58: Looking for fringes

06:04: CAL1 HD3240 **HD3240.2020.08.30.06.04**. E2: -4170 micron. 20 blocks.

06:20: Target **HD5015.2020.08.30.06.20**. E2: -3960 micron. Fringes are ok. 30 blocks.

06:42: CAL2 HD223128 **HD223128.2020.08.30.06.42**. E2: -3630 micron. Fringes are pretty good. 20 blocks.

06:59: Target **HD5015.2020.08.30.06.59**. E2: -3860 micron. 30 blocks.

07:18: CAL1 HD3240 **HD3240.2020.08.30.07.18**. E2: -4000 micron. Beautiful Fringes. Fringes are very well tracked. 20 blocks.

07:33: Target **HD5015.2020.08.30.07.33**. E2: -3820 micron. 30 blocks. Good Fringes.

07:58: CAL2 HD223128 **HD223128.2020.08.30.07.58**. E2: -3450 micron. Fringes are good. 20 blocks.

D_CM720.2020.08.30.08.10 Spectral calibration @ 720 nm medium res.

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E2 Pop 2 B2 – W2 Pop 5 B3 (W2-ref)

V38 (A. Salsi) – HD3360

Target = HD 3360

Cal1 = HD 3240

Cal2 = HD 2054

Align = HD 3240

Check = HD 3240

08:27: Tracker cannot talk to OPLE. Olli says something is wrong.

08:29: Restarting the OPLE server.

08:37: CAL1 HD3240 **HD3240.2020.08.30.08.37.** E2: -2440 micron. Nice fringes.
Tracking is good. 20 blocks

08:52: Target HD3360 **HD3360.2020.08.30.08.52** E2: -2320 micron. Fringes are bright
and good. Blocks 5 - 8 and 20 - 22 are bad. 23 blocks.

09:15: CAL2 HD2054 **HD2054.2020.08.30.09.15.** E2: -3300 micron. 20 blocks.
Fringes are transient.

09:29: Target HD3360 **HD3360.2020.08.30.09.29.** E2: -3290 micron. Beautiful fringes
. Tracking is good. 20 blocks

09:42: CAL1 HD3240 **HD3240.2020.08.30.09.42.** E2: -3200 micron. Fringes are
beautiful. 20 blocks

09:55: Target HD3360 **HD3360.2020.08.30.09.55.** E2: -3120 micron. 20 blocks

09:15: CAL2 HD2054 **HD2054.2020.08.30.10.09.** E2: -3040 micron. 20 blocks.

D_CM720.2020.08.30.10.19 Spectral calibration @ 720 nm medium res.

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E2 Pop 2 B2 – W2 Pop 5 B3 (W2-ref)

V38 (A. Salsi) – HD3360

Target = HD 35468

Cal1 = HD 38899

Cal2 = HD 34658

Align = HD 35468

Check = HD 35468

10:31: Target HD35468 **HD35468.2020.08.30.10.31.** E2: -4870 micron. Density=0.6.
Fringes are moving a bit but are beautiful. 20 blocks

10:59: CAL1 HD38899 **HD38899.2020.08.30.10.59.** E2: -4930 micron. Nice fringes.
Tracking is good. 20 blocks

11:15: Target HD35468 **HD35468.2020.08.30.11.15.** E2: -4900 micron. 20 blocks

11:31: CAL2 HD34658 **HD34658.2020.08.30.11.31.** E2: -4800 micron. 20 blocks

11:45: Target HD35468 **HD35468.2020.08.30.11.45.** E2: -4820 micron. 20 blocks

12:02: CAL1 HD38899 **HD38899.2020.08.30.12.02.** E2: -4840 micron. 20 blocks

12:16: Target HD35468 **HD35468.2020.08.30.12.16.** E2: -4750 micron. 20 blocks

12:29: CAL2 HD34658 **HD34658.2020.08.30.12.29.** E2: -4650 micron. 20 blocks

12:43: Target HD35468 **HD35468.2020.08.30.12.43.** E2: -4580 micron. 20 blocks

12:55: CAL1 HD38899 **HD38899.2020.08.30.12.55.** E2: -4480 micron. 20 blocks

D_CM720.2020.08.30.13.05 Spectral calibration @ 720 nm medium res.

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