

Log CHARA/VEGA 2020-08-28

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

Summary: We spent the night on programs V67 , V70, V27 and V38.

- V67: 4 X E2W2 Target: HD 164507
 - V70 : 4 X S2S1 Target: HD 193237 (P Cygni)
 - V27 : 1 X S2S1 Target = HD 31964 HR656 (60 blocks) @AH=-4h40 + 2 X S2S1 MR@656nm
 - V38 : 1 X E2W2 Target = HD 35468
 - 2 spectral calibrations [MR@720nm](#)
 - 2 spectral calibrations [MR@656nm](#)
 - 1 spectral calibrations [HR@656nm](#)
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UTC TIME:

02:54: Locked on Check star

02:57: Aligning Vega

03:02: Aligned

E2 Pop 2 B2 – W2 Pop 5 B3 (W2-ref)

V67 (O. Creevey) – HD164507

Target = HD164507

Cal1 = HD170878

Cal2 = HD171301

Align = HD166182

Check = HD166182

Recording

03:12: CAL1 HD170878 **HD170878.2020.08.28.03.12** E2: -3450 micron. Climb B2
5.07mm. 20 blocks.

03:31: Target HD164507 **HD164507.2020.08.28.03.31** E2: -3020 micron. 30 Blocks.
Good Tracking. Good Fringes on Vega.

03:49: CAL1 HD170878 **HD170878.2020.08.28.03.50** E2: -3090 micron. 20 blocks.
Good Fringes. Stable.

04:07: Target HD164507 **HD164507.2020.08.28.04.07** E2: -2650 micron. 30 blocks

04:29: CAL1 HD170878 **HD170878.2020.08.28.04.30** E2: -3690 micron. 20 blocks.

04:46: Target HD164507 **HD164507.2020.08.28.04.46** E2: -2290 micron. 30 blocks

05:06: CAL2 HD171301. **HD171301.2020.08.28.05.06** E2: -2280 micron. 20 blocks.

05:29: Target HD164507 **HD164507.2020.08.28.05.29** E2: -1880 micron. 18 blocks.
Pretty good fringes on Vega. Good SNR. We lost fringes in the last block (out of delay).

05:52: CAL2 HD171301. **HD171301.2020.08.28.05.52** E2: -2000 micron. 20 blocks.

D_CMR720.2020.08.28.06.05 Spectral calibration @ 720 nm medium res.

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S2 Pop 5 B1 - S1 Pop 4 B2 (B2-ref)
V70 (R. Klement) – HD193237 (P Cygni)

Target = HD193237 (P Cygni)

Cal1 = HD191243

Cal2 = HD197392

Align = Target

Check = Target

06:07: Slewing

06:31: Target **HD193237.2020.08.28.06.31** S2 +1150 micron. Climb B1 7.90 mm.
Climb B2 4.91 mm. 33 blocks. Very good fringes. We lost fringes on blocks 20-22.

06:56: CAL1 HD191243 **HD191243.2020.08.28.06.56** S2: +1290 micron. 30 blocks.
Fringes are weak on CLIMB.

07:15: Target **HD193237.2020.08.28.07.15** S2 +1330 micron. 30 blocks.

07:44: CAL2 HD197392 **HD197392.2020.08.28.07.44** S2: +1360 micron. 30 blocks.
Tracking is good.

08:02: Target **HD193237.2020.08.28.08.02** S2 +1430 micron. 30 blocks.

08:32 CLIMB servo is not working.

08:37: CAL1 HD191243 **HD191243.2020.08.28.08.37** S2: +1400 micron. 30 blocks.

08:55: Target **HD193237.2020.08.28.08.55** S2 +1400 micron. 30 blocks. Good Fringes

D_CMR656.2020.08.28.09.09 Spectral calibration @656 nm medium res.

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S2 Pop 5 B1 - S1 Pop 4 B2 (B2-ref)
V27 (D. Mourard) – HD 31964 (eps Aur)

Target = HD 31964

Cal1 = HD 32630

Align = Target

Check = Target

09:26: Target **HD31964.2020.08.28.09.26** S2 +780 micron. Climb B1 7.56 mm. Climb B2 4.91 mm. 60 blocks. High resolution@AH=-4h40.

D_CHR656.2020.08.28.09.53 Spectral calibration @656 nm high res.

10:08: Problems with Climb, Restarting.

10:12 CAL1 HD32630 **HD32630.2020.08.28.10.12** S2: +1280 micron. CLIMB B1 7.90 mm. CLIMB B2 4.91mm. 20 blocks. Very bright fringes.

10:36: Vega Fringes are not moving, Climb clocks again.

10:39: Target **HD31964 .2020.08.28.10.39** S2 +1410 micron. 20 blocks.

11:07 CAL1 HD32630 **HD32630.2020.08.28.11.07** S2: +1430 micron. 20 blocks.

11:24 Target **HD31964 .2020.08.28.11.24** S2 +1480 micron. 20 blocks.

11:38 CAL1 HD32630 **HD32630.2020.08.28.11.38** S2: +1480 micron. 20 blocks.

D_CM656.2020.08.28.11.49 Spectral calibration @ 656 nm medium res.

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E2 Pop 2 B2 – W2 Pop 5 B3 (W2-ref)

V38 (A. Salsi) – HD 35468

Target = HD35468

Cal1 = HD34658

Cal2 = HD37788

Align = HD34658

Check = HD34658

12:21: CAL1 HD34658 **HD34658.2020.08.28.12.21** E2: -4420 micron. Climb B2
5.03mm. 20 blocks.

12:40: Target HD35468 **HD35468.2020.08.28.12.40** E2: -4370 micron. 20 blocks.

12:59: CAL2 HD37788 **HD37788.2020.08.28.12.59** E2: -4310 micron. 8 blocks.

D_CM720.2020.08.28.13.04 Spectral calibration @ 720 nm medium res.

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