

Log CHARA/VEGA 2020-07-21

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

Summary: We are using the BLUE camera and running in A configuration. We spent the night on V01 and V70. We couldn't complete the last program due to technical reason.

- V01 : 2 X E2W2 Target:HD133112
 - V70 : 4 X S2S1 Target = HD193237 (P Cygni) @656 +1 X S2S1 @720 (unexpected wavelength sorry)
 - V70 : 1 X S2S1 Target = Deneb (HD197345) HR656 (60 blocks)
 - V70 : 0.5 X W1W2 Target = HD193237 (P Cygni)
 - 2 spectral calibrations [MR@720nm](#)
 - 2 spectral calibrations [MR@656nm](#)
 - 1 spectral calibrations [HR@656nm](#)
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UTC TIME:

03:43: Aligning

E2 Pop 1 B2 – W2 Pop 5 B3 (W2-ref)
V01 (R. Ligi) – HD133112 (HR5599)

Target = HD133112

Cal1 = HD132953

Cal2 = HD154445

Cal3 = HD124988

Align = HD132052

Check = HD129956

Recording

04:07: CAL1 HD132953. **HD132953.2020.07.21.04.07** E2: -2170 micron. Climb B2 5.09mm. 30 blocks. Tracking is not bad. Difficult to see fringes on vega.

04:30: Target **HD133112.2020.07.21.04.30** E2: -2100 micron. 40 Blocks. Blind record.
Correct fringe peak.

04:57: CAL2 HD154445. **HD154445.2020.07.21.04.57** E2: -2550 micron. 30 blocks.

05:21: Target **HD133112.2020.07.21.05.21** E2: -1810 micron. 40 Blocks.

05:49: CAL2 HD154445. **HD154445.2020.07.21.05.49** E2: -2250 micron. 30 blocks.

D_CMR720.2020.07.21.06.04 Spectral calibration @ 720 nm medium res. (bluecam)

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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 to P Cygni

06:20: S1 pupil has holes at edges

06:30: Target **HD193237.2020.07.21.06.30** S2 +1240 micron. Climb B1 7.90 mm.
Climb B2 4.91 mm. 30 blocks.

06:50: CAL1 HD191243 **HD191243.2020.07.21.06.51** S2: +1140 micron. 30 blocks

07:12: Target **HD193237.2020.07.21.07.12** S2 +1100 micron. 30 blocks.

07:35: CAL2 HD197392 **HD197392.2020.07.21.07.35** S2: +1120 micron. 30 blocks.
[Wavelength@720](#) (sorry for the mistake)

07:55: Target **HD193237.2020.07.21.07.55** S2 +870 micron. 30 blocks. Fringes are moving a lot because of transit. [Wavelength@720](#) (sorry for the mistake)

08:20: CAL2 HD197392 **HD197392.2020.07.21.08.20** S2: +960 micron. 30 blocks.
[Wavelength@720](#) (sorry for the mistake)

D_CMR720.2020.07.21.12.31 Spectral calibration @720 nm medium res. (bluecam)

09:02: Target **HD193237.2020.07.21.09.03** S2 +1080 micron. 40 blocks. First 15 blocks might not have fringes. Maybe tracking issue.

09:30: CAL2 HD197392 **HD197392.2020.07.21.09.30** S2: +1150 micron. 30 blocks.

09:50: Target **HD193237.2020.07.21.09.50** S2 +1300 micron. 30 blocks. Steady waterfall.

10:15: CAL1 HD191243 **HD191243.2020.07.21.10.15** S2: +1400 micron. 30 blocks

D_CMR656.2020.07.21.10.30 Spectral calibration @656 nm medium res. (bluecam)

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S2 Pop 5 B1 - S1 Pop 4 B2 (B2-ref)

[V70 \(R. Klement\) – Deneb](#)

Target = Deneb (HD197345)

Align = Deneb

Check = Deneb

10:32 Slewing to target

10:43: Target **HD197345.2020.07.21.10.43** S2 +970 micron. CLIMB B1 +744 mm 60 blocks.

D_CHR656.2020.07.21.11.12 Spectral calibration @656 nm high res. (bluecam)

W1 Pop 2 B2 - W2 Pop 5 B3 (W2-ref)
V70 (R. Klement) – HD193237 (P Cygni)

Target = HD193237 (P Cygni)

Cal1 = HD191243

Cal2 = HD197392

Align = Target

Check = Target

11:36: Target **HD193237.2020.07.21.11.36** W1:-1000 micron Climb B2: 4.32 mm
30 blocks.

12:01: Labao dichroic in wrong position

12:03: Beacons in wrong position.

12:04: Niro doesn't have any light

12:05: Going for nearest bright star

12:11: Fringes are back

12:13: CAL1 HD191243 **HD191243.2020.07.21.12.13** W1: -960 micron. 30 blocks

D_CM656.2020.07.21.12.27 Spectral calibration @656 nm medium res. (bluecam)

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