

Log CHARA/VEGA 2020-07-20

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, V67 & V38.

- V01 : 1 X E2W2 Target:HD133112
 - V67 : 5 X E2W2 Target = HD187217
 - V38 : 3 X E2W2 Target = HD11415
 - 3 spectral calibrations [MR@720nm](#)
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UTC TIME:

03:38: Aligning

03:43: Vega aligned, Looking for fringes

04:16: Fringes not found. Looking at another star HD136202.

04:25: Found Fringes on Vega, Co-phased

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

04:37: CAL1 HD132953. **HD132953.2020.07.20.04.37** E2: -2010 micron. Climb B2 5.11mm. 30 blocks. Climb fringes are weak. Fringes are moving. Weak fringe peak on VEGA. Windy conditions.

05:03: Target **HD133112.2020.07.20.05.03** E2: -1950 micron. 40 Blocks.

05:30: CAL2 HD154445. **HD154445.2020.07.20.05.30** E2: -2350 micron. Climb B2 5.07mm. 30 blocks.

D_CMR720.2020.07.20.05.46 Spectral calibration @ 720 nm medium res. (bluecam)

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E2 Pop 1 B2 – W2 Pop 5 B3 (W2-ref)

V67 (O. Creevey) – HD187217

Target = HD187217

Cal1 = HD178207

Cal2 = HD184171

Align = Cal2

Check = Cal2

05:57: Aligning

Recording

05:58: CAL2 HD184171. **HD184171.2020.07.20.05.58** E2: -2610 micron. Climb B2 4.87mm. 20 blocks. Good Tracking. Good fringes on Vega. Good waterfall.

06:22: Target **HD187217.2020.07.20.06.22** E2: -2520 micron. 30 blocks. Tracking is good. Fringes are moving.

06:44: CAL1 HD178207. **HD178207.2020.07.20.06.44** E2: -2320 micron. 30 blocks.

07:05: Target **HD187217.2020.07.20.07.07** E2: -2400 micron. 30 blocks. Tracking is good. Fringes are weak.

07:35: CAL1 HD178207. **HD178207.2020.07.20.07.34** E2: -2110 micron. 20 blocks.

07:58: Target **HD187217.2020.07.20.07.58** E2: -2130 micron. 30 blocks. Tracking is good. Fringes are weak.

08:24: CAL1 HD178207. **HD178207.2020.07.20.08.24** E2: -2070 micron. Climb B2 5.02mm. 20 blocks. Tracking is fine. Good signal to ratio.

08:43: Target **HD187217.2020.07.20.08.43** E2: -2090 micron. 30 blocks.

09:16: CAL2 HD184171. **HD184171.2020.07.20.09.16** E2: -1940 micron. Climb B2 5.06mm. 20 blocks.

09:36: Target **HD187217.2020.07.20.09.36** E2: -1800 micron. 30 blocks.

09:59: CAL2 HD184171. **HD184171.2020.07.20.09.59** E2: -1780 micron. Climb B2 5.06mm. 20 blocks.

D_CM720.2020.07.20.10.10 Spectral calibration @ 720 nm medium res. (bluecam)

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E2 Pop 3 B1 – W2 Pop 5 B3 (W2-ref)

V38 (A. Salsi) – HD11415

Target = HD11415

Cal1 = HD12301

Cal2 = HD10221

Cal3 = HD6210

Align = Target

Check = Target

10:27: Fringes found

10:32: Issues with NIRO

Recording

10:41: Target **HD11415.2020.07.20.10.41** E2: -380 micron. Climb B2: 5.02 mm. 20 blocks.

10:57: CAL1 HD12301. **HD12301.2020.07.20.10.56** E2: -480 micron. 20 blocks

11:11: Target **HD11415.2020.07.20.11.11** E2: -560 micron. 22 blocks. Tracking is good. We lost fringes in 11 and 12 blocks. Added two more blocks.

11:31: CAL2 HD10221. **HD10221.2020.07.20.11.31** E2: -300 micron. 30 blocks. Fringes moving a lot.

11:50: Target **HD11415.2020.07.20.11.50** E2: -370 micron. 20 blocks.

12:04: CAL1 HD12301. **HD12301.2020.07.20.12.04** E2: -410 micron. 20 blocks

12:19: Target **HD11415.2020.07.20.12.19** E2: -410 micron. 20 blocks. Last block lost fringes.

D_CM720.2020.07.20.12.29 Spectral calibration @ 720 nm medium res. (bluecam)

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