

## Log CHARA/VEGA 2020-06-17

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

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**Summary :** We are using the BLUE camera. There were problems with S1, so we had to change strategy. We could not find fringes on VEGA with 1st program, so abandon V01 for tonight. Spent the rest of the night on V70 Pcygni E1E2, W1W2

- V70 : 3.5 X E1E2
  - V70 : 1 X E1E2 Densite 0.3
  - V70 : 1 X E1E2 Densite 0.6
  - V70 : 3.5 X W1W2
  - 2 spectral calibrations [MR@656nm](#)
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**UTC TIME :**

**03:00**

Problems with S1. We need to change strategy.

**E2 Pop 1 B2 – W1 Pop 4 B3 (B3-ref)**  
**V01 (R. Ligi) – HD133112 (HR5599)**

**Target = HD133112**

**Cal1 = HD132953**

**Cal2 = HD154445**

**Cal3 = HD124988**

**Align = HD132052** (low V2 so use different star for check)

**Check = HD129956**

**04:30:** aligning and check.

No luck. We could not find fringes on VEGA. Abandon program. We will go to P Cygni on E1E2 which was partially done 2 nights ago to check that the camera is working ok.

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**E2 Pop 2 B2 – E1 Pop 1 B1 (B2-ref)**  
**V70 (R. Klement) – HD193237 (P Cygni)**

**Target = HD193237 (P Cygni)**

**Cal1 = HD191243**

**Cal2 = HD197392**

**Align = Target**

**Check = Target**

**05:40:** Slew to P Cygni for check and align. WE HAVE FRINGES !!!

Recording. **HD193237.2020.07.17.06.08** E1 : +2940 micron; Climb B1 6.02 mm B2 4.97 mm. 20 blocks.

**06:20 :** CAL1 HD191243. **HD191243.2020.07.17.06.33** E1 +2980 micron. 20 blocks.

**06:45:** Target **HD193237.2020.07.17.06.50** E1:+2960 micron. 20 blocks.

**06:20 :** CAL2 HD197392. **HD197392.2020.07.17.07.05** E1 +2900 micron. 20 blocks.

**07:15:** Target **HD193237.2020.07.17.07.22** E1:+3030 micron. 20 blocks.

**07:30:** Target **HD193237.2020.07.17.07.33** E1:+3060 micron. 20 blocks. density 0.3.

**07:44:** Target **HD193237.2020.07.17.07.44** E1:+3090 micron. 20 blocks. Density 0.6.

**07:55 :** CAL2 HD197392. **HD197392.2020.07.17.08.03** E1 +3000 micron. 20 blocks.

Close to transit, had to rotate telescopes. Took a while to get back target and fringes.

**08:45:** Target **HD193237.2020.07.17.08.51** E1:+3120 micron. 20 blocks.

**09:05 :** CAL1 HD191243. **HD191243.2020.07.17.09.11** E1 +2980 micron. 20 blocks.

**D\_CM656.2020.07.17.09.21.** Spectral calibration @ 656 nm medium res. (bluecam)

**W2 Pop 5 B2 – W1 Pop 4 B3 (B2-ref)**  
**V70 (R. Klement) – HD193237 (P Cygni)**

**Target = HD193237 (P Cygni)**

**Cal1 = HD191243**

**Cal2 = HD197392**

**Align = Target**

**Check = Target**

09.30 : Go to target for alignment and check.

**09:45:** Target **HD193237.2020.07.17.09.46** W1:+170 micron. Climb-B1 : 7.37nm  
Climb-B2 : 4.62 nm. 20 blocks.

**10:02 :** CAL1 HD191243. **HD191243.2020.07.17.10.03** W1 :+250 micron. 20 blocks.

**10:17:** Target **HD193237.2020.07.17.10.18** W1:+210 micron. 20 blocks.

Could not find fringes on climb. Problem between climb + ople.

**10:50 :** CAL2 HD197392. **HD197392.2020.07.17.10.57.** W1: -660 micron. 20 blocks.

LDCs were not on, even though they appeared to be on. Slow connection.

**11:10:** Target **HD193237.2020.07.17.11.33** W1:+280 micron. 20 blocks.

**11:45 :** CAL1 HD191243. **HD191243.2020.07.17.11.52** W1 :+360 micron. 20 blocks.

**12:10:** Target **HD193237.2020.07.17.12.07** W1:+320 micron. 20 blocks.

**12:20 :** CAL2 HD197392. **HD197392.2020.07.17.12.22.** W1: +270 micron. 20  
blocks.

**D\_CM656.2020.07.17.12.32.** Spectral calibration @ 656 nm medium res. (bluecam)

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