

Log CHARA-VEGA 2020-08-27

Norm (Mount Wilson), Fred & Karine (Calern)

E2	W2
POP 2	POP 5

UT 3:00 – we start with E2W2 with W2 as reference and point HD 166182 as a check star. A very few number of photons on VEGA!

UT 3:15 – we are on the star ... We move to the check star. Hard to optimize the flux on VEGA.

UT 3:30 Network issues. We clearly see the fringes on VEGA but NIRO should be realigned

UT 3:40 NIRO realignment

UT 3:55 Fringes!!!

Program V67 (Orlagh) – HD 164507

UT 3:55 – we go to HD 170878 as cal1. Fringes very stable on CLIMB. VEGA beams highly misaligned. Flux on E2 is changing a lot. Nice fringes. Offset E2 = -2950. CLIMB_B2 = 5.10

HD170878.2020.08.27.04.08

UT 4:15 – we switch to HD 164507. Nice fringes. Offset E2 = -2590. CLIMB_B2 = 5.12. 30 blocks. Blocks 2 and 3 KO (W2 lost). Flux strongly variable (30% on VEGA cameras).

HD164507.2020.08.27.04.24

UT 4:40 – we go to cal2 (HD 171301). Faint fringes on CLIMB but clear on VEGA. Recording (20 blocks). Offset E2 = -2420. CLIMB_B2 = 5.08

HD171301.2020.08.27.04.44

UT 4:55 – we go back to HD 164507. Recording (30 blocks). Very nice fringes and good tracking. Offset E2 = -2250. CLIMB_B2 = 5.10.

HD164507.2020.08.27.04.59

UT 5:10 – we swap to HD 170878 (cal 1). 20 blocks. Beautiful fringes. Offset E2 = -2370. CLIMB_B2 = 5.10. Fringes drifted by about 200 μm from block 16. The last 10 blocks among the 30 ones are KO.

HD170878.2020.08.27.05.14

UT 5:25 – Spectral calibration.

D_CMR720.2020.08.27.05.30

W1	W2
POP 1	POP 5

Program V70 (Robert) – P Cygni

UT05:30 – We start with P Cygni as a check.

UT05:45 – W2 pupil is not good (high elevation)

UT05:55 – Fringes on CLIMB and VEGA. Recording (30 blocks). CLIMB_B2 = 4.64.

HD193237.2020.08.27.05.55

UT06:10 – we go to cal 1 (HD 191243). NIRO realignment. Offset W1 = -1010.

HD191243.2020.08.27.06.28

UT06:40 – We go back to P Cygni. Large flux difference between the 2 telescopes on VEGA. Offset W1 = -1030. 20 blocks.

HD193237.2020.08.27.06.45

UT07:00 – we go to cal 2 (HD 197392). Nice fringes. 20 blocks. Offset W1 = -1090.

HD197392.2020.08.27.07.06

UT07:15 – We go back to P Cygni. Very nice fringes. Offset W1 = -1120. 30 blocks.

HD193237.2020.08.27.07.20

UT07:35 – we go back to cal 1 (HD 191243). Offset W1 = -600. 20 blocks.

HD191243.2020.08.27.07.39

UT07:50 – We go back to P Cygni. Very nice fringes. Offset W1 = -700. 30 blocks.

HD193237.2020.08.27.07.54

UT08:10 – we go to cal 2 (HD 197392). NIRO realignment. 20 blocks. Offset W1 = -790.

HD197392.2020.08.27.08.16

UT08:25 – We go back to P Cygni. Restart NIRO. Beautiful fringes. Offset W1 = -530. 13 blocs OK then no more delay (ASPRO computation 10 min wrong)

HD193237.2020.08.27.08.41

UT08:50 – we go to cal 2 (HD 197392). 20 blocks. Nice fringes. Offset W1 = -700.

HD197392.2020.08.27.08.56

D_CMR656.2020.08.27.09.07

E2	W2
POP 2	POP 5

Program V67 (Orlagh) – HD 5015

UT 9:05 – we go to HD 5015.

UT 9:25 – Restart of OPLE. Fringes on CLIMB and VEGA but tracking is not perfect. Offset E2 = -3000. CLIMB_B2 = 5.03. Fringes lost from block 16 (W2 lost due to issue with dichroic).

HD5015.2020.08.27.09.34

UT 9:50 – WFS crash. Rebooting camera. W2 dichroic still stuck and RH is rising up

UT 10:10 – Nice fringes on CLIMB and VEGA. Record 30 blocks. Offset E2 = -2900.

HD5015.2020.08.27.10.11

UT 10:25 – We switch to cal 2 (HD 3924). Offset E2 = -2730.

UT 10:35 – Reboot of E2 WFS

UT 10:40 – Tracking by CLIMB is really hard for the first blocks (VEGA tracking but the fringes do not move a lot). Offset E2 = -2900. 30 blocks. The last 15 blocks are quite nice.

HD3924.2020.08.27.10.37

UT 10:55 – We go back to HD 5015. Nice fringes on CLIMB. Target very resolved by VEGA but nice fringes on VEGA. Record 30 blocks. Offset E2 = -2710.

HD5015.2020.08.27.10.56

UT 11:10 – Cal 2 (HD 3924). Offset E2 = -2560. 30 Blocks. Tracking hard for the 5 last blocks.

HD3924.2020.08.27.11.16

UT 11:30 – We go back to HD 5015. Nice fringes on CLIMB. Target very resolved by VEGA but fringes on VEGA. Offset E2 = -2530. Record 30 blocks.

HD5015.2020.08.27.11.37

UT 11:50 – We go to cal 1 (HD 10587). Nice fringes. Offset E2 = -2580. 30 Blocks

HD10587.2020.08.27.11.59

UT 12:10 – We go back to HD 5015. Nice fringes on CLIMB. Target very resolved by VEGA but fringes on VEGA. Offset E2 = -2380. Record 30 blocks.

HD5015.2020.08.27.12.20

UT 12:30 – We go back to cal 1 (HD 10587). Nice fringes. Offset E2 = -2450. 30 Blocks

HD10587.2020.08.27.12.39

D_CM720.2020.08.27.12.53