

Log CHARA-VEGA 2020-08-26

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

E2	W2
POP 2	POP 5

UT 2:30 – we start VEGA. An error message when starting the VEGA cameras; after a reboot it seems OK.

UT 3:00 – we start with E2W2 with W2 as reference and point HD 166182 as a check star. Fringes on CLIMB and immediately on VEGA.

Program V67 (Orlagh) – HD 164507

UT 3:20 – we go to HD 170878 as cal1. Fringes on CLIMB and VEGA. Offset E2 = -3370. CLIMB_B2 = 5.07

HD170878.2020.08.26.03.25

UT 3:35 – we switch to HD 164507 and record 30 blocks. Fringes are more stable than for the cal (target is brighter in K band). Offset E2 = -3030. CLIMB_B2 = 5.09. Tracking by CLIMB is a bit hectic (shifts of the NIRO beams?).

HD164507.2020.08.26.03.41

UT 3:55 – we go back to cal1 (HD 170878). Realignment of NIRO. Recording (20 blocks). Offset E2 = -3030. CLIMB_B2 = 5.08

HD170878.2020.08.26.04.04

UT 4:15 – we go back to HD 164507. Recording (30 blocks). Very nice fringes and good tracking. Offset E2 = -2590. CLIMB_B2 = 5.10.

HD164507.2020.08.26.04.25

UT 4:35 – we swap to HD 171301 (cal 2). 20 blocks. Beautiful fringes. Offset E2 = -2410. CLIMB_B2 = 5.10.

HD171301.2020.08.26.04.45

UT 4:55 – we go back to HD 164507. CD is stuck. Recording (30 blocks). Very nice fringes and good tracking. Offset E2 = -2240. CLIMB_B2 = 5.13.

HD164507.2020.08.26.05.03

UT 5:15 – we go back to cal1 (HD 170878). Realignment of NIRO. Recording (20 blocks).
Offset E2 = -2260. CLIMB_B2 = 5.08

HD170878.2020.08.26.05.25

UT 5:35 – Spectral calibration. Reinit of the CAU neutral density wheel.

D_CMR720.2020.08.26.05.39

E1	E2
POP 1	POP 2

Program V70 (Robert) – P Cygni

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

UT05:50 – E1 is stuck. Norm goes to see what happens in the telescope. Finally he diagnoses an issue with the AZ encoder which cannot be fixed. We switch back to E2W2.

E2	W2
POP 3	POP 5

Program V38 (Anthony) – HD 3360

UT 6:50 – we go to HD 3360. Need to fully realigned the VEGA beams. Nice fringes on CLIMB and VEGA. Offset E2 = -4000. CLIMB_B2 = 5.02 but the LDC are close to the end of their ranges. Record (20 blocks)

HD3360.2020.08.26.07.16

UT 7:25 – we go to cal 1 HD 2054. Fringes not found on CLIMB. Finally weak fringes on CLIMB and VEGA. Tracking is correct despite the faint magnitude in K. Offset E2 = -3870. CLIMB_B2 = 5.04. Record (30 blocks)

HD2054.2020.08.26.07.44

UT 8:00 – we go back to HD 3360. Need to realign VEGA beams. Nice fringes on CLIMB and VEGA. Offset E2 = -3840. CLIMB_B2 = 5.04. Record (20 blocks)

HD3360.2020.08.26.08.03

UT 8:10 – we go to cal 2 HD 3240. Easier to find fringes! Offset E2 = -3700. CLIMB_B2 = 5.05. Record (20 blocks)

HD3240.2020.08.26.08.19

UT 8:30 – we go back to HD 3360. NIRO realignment. Nice fringes on CLIMB and VEGA. Offset E2 = -3650. CLIMB_B2 = 5.04. Record (20 blocks)

HD3360.2020.08.26.08.37

UT 8:45 – we go to cal 2 HD 3240. Nice fringes. Offset E2 = -3560. CLIMB_B2 = 5.05. Record (20 blocks)

HD3240.2020.08.26.08.49

UT 9:00 – we go back to HD 3360. Nice fringes on CLIMB and VEGA. Offset E2 = -3520. CLIMB_B2 = 5.04. Record (20 blocks)

HD3360.2020.08.26.09.01

UT 9:10 – we go to cal 1 HD 2054. Cart does not move.

UT 9:30 – restarting NIRO, then OPLE, and CLIMB.

UT 9:40 – CLIMB issue with the clocks

UT 9:50 – Clocks are returned. Nice fringes on CLIMB and VEGA. Offset E2 = -2780. CLIMB_B2 = 5.10. Record (20 blocks)

HD2054.2020.08.26.09.52

UT 10:00 – we go back to HD 3360. Nice fringes on CLIMB and VEGA. Offset E2 = -2660. CLIMB_B2 = 5.04. Record (20 blocks)

HD3360.2020.08.26.10.08

D_CMR720.2020.08.26.10.19

Program V38 (Anthony) – HD 33959A

UT 10:20 – we go to HD 34578 (cal 1) to check the alignments. Need to unwind the telescopes.

UT 10:40 – Fringes on CLIMB but LDC are not active.

UT 10:50 – Fringes on VEGA. Offset E2 = -4620. CLIMB_B2 = 4.98 but the LDC are close to the end of their ranges. Record (20 blocks)

HD34578.2020.08.26.10.53

UT 11:00 – we go to HD 33959. Offset E2 = -4650. CLIMB_B2 = 5.01. Record (20 blocks)

HD33959.2020.08.26.11.14

UT 11:20 – we go to HD 35520 (cal 2). Fringes on CLIMB and VEGA. Offset E2 = -4590. CLIMB_B2 = 5.01.

HD35520.2020.08.26.11.27

UT 11:35 – we go back to the target HD 33959. Offset E2 = -4530. CLIMB_B2 = 5.01. Record (20 blocks)

HD33959.2020.08.26.11.40

UT 11:50 – we go back to cal 1. Offset E2 = -4510. 20 blocks.

HD34578.2020.08.26.11.52

UT 12:00 – we go back to the target HD 33959. Offset E2 = -4410. CLIMB_B2 = 5.01. Record.

HD33959.2020.08.26.12.05

UT 11:15 – we go to HD 35520 (cal 2). Fringes on CLIMB and VEGA. Offset E2 = -4370. CLIMB_B2 = 5.01.

HD35520.2020.08.26.12.18

UT 12:30 – we go back to the target HD 33959. Offset E2 = -4230. CLIMB_B2 = 5.01. Record.

HD33959.2020.08.26.12.31

UT 12:40 – we go back to cal 1. Offset E2 = -4180. 20 blocks.

HD34578.2020.08.26.12.44

D_CMR720.2020.08.26.12.54