

VEGA Observing report 2020-12-17

Norm, Fred&Denis

UT00h45 arrival in the room, contact with Norm. ok

V67-HD198809, Creevey, W1P2B2-W2P5B3

- UT01h15: align on HD197989
- UT01h25: slew to cal1, HD190993. Locked at 1h30. **HD190993.2020.12.17.01.35**. Offset -290, B2=4.60. Tracking medium to good (1/3 of the CLIMB window). Nice peak and good SNR. Flux variation (loss up to half of the flux).
- UT01h44: slew to the target **HD198809.2020.12.17.01.51**. Offset=-550, B2=4.61. HA=+2h55. 30 blocks. Nice tracking on CLIMB. R0 10cm following AO estimations. Fringes on VEGA, clearly low contrast but fine. R0 around 15cm!
- UT2h04. Cal2. **HD196504.2020.12.17.02.10**. Offset=-320, B2=4.60. Nice conditions of seeing and tracking. Nice fringes.
- UT2h19. Target **HD198809.2020.12.17.02.24**. Offset=-420. R0=17cm, HA=3h30.
- UT02h37. Cal1. **HD190993.2020.12.17.02.42**. LDC W1 out of stroke. Offset=-20 μ m, B2=4.54. r0=19cm. Nice fringes.
- UT2h51, target. NIRO alignment. **HD198809.2020.12.17.02.59**. Offset=-230, B2=4.58, LDC W1 out of stroke again. R0 close to 20cm now. HA=4h05. Nice fringes. R0=21cm.
- UT3h12: goto cal2. **HD196504.2020.12.17.03.19**. Offset=-70, B2=4.54 (LDC out of stroke). Less flux (almost 20%) more and more clouds apparently, r0 20cm. Nice fringes.
- UT3h28: target. **HD198809.2020.12.17.03.31**. Offset=-150. HA=4h35. R0=20cm. Nice data.
- UT3h45. Cal2 but really limit in delay. W2 cart put to front and thus NIRO alignment. Hard time to find the fringes but finally out of delay. R0=21cm.
- Spectral calibration **D_CMR720.2020.12.17.04.00**

V66, Wysocki, W1P2B2-W2P5B3

- UT3h57, γ Cas first, Neutral density 0.3, 40 blocks. **HD5394.2020.12.17.04.08**. Offset=-2350, B2=4.66. HA=1h10. R0=20cm. Excellent fringes. 11 blocks (29 and 39 included) with all shutters closed (preparation by Norm for the next program). So 50 blocks at the end.
- UT4h31: ϕ Per now. 40 blocks. **HD10516.2020.12.17.04.36**. Offset=-2070, B2=4.66. HA=0h50. R0 around 12cm. Fringes at 1/6 of the CLIMB window. Fringes excellent on VEGA.
- UT4h54: ζ Tau but long slew to the East then realignment is necessary. 40 blocks. Then issue with the periscope (server finally restarted). **HD37202.2020.12.17.05.26**. Offset=-3690, B2=4.73, HA=-2h15
- Spectral calibration **D_CMR656.2020.12.17.05.45**

V67-HD22879, Creevey, S2P5B1-E2P2B2

- UT5h43: start of this new program with the check star HD26912. Clouds are coming as a milky layer. Only stars of mag 1 or 2 are visible. 150 photons with E2+S2 only on this magnitude 4.2. Standby on this star at 6h30. R0 around 5cm now, very weak fringes on CLIMB, they do not appear on VEGA.
- UT9h00-10h00: scopes are closed as clouds are thicker and thicker.