

Night of Nov 23 2016

Fred, Elisson , Olli

UT1h00: arrival and setup. Almost clean sky and humidity around 50%.

V66 Programme S2POP5B1-S1POP4B2

HD 203467

UT1h25: alignment on target HD 203467. Cophasing CLIMB and VEGA. Fringes on CLIMB and VEGA. **HD203467S1S2.2016.11.23.01.19.** We Record, 20 blocks. Good seeing around 8-10 cm. Fringes offset at 2032 microns, CLIMB_B1 = 0.65, CLIMB_B2 = 0.09.

HD 212076

UT1h45: target HD 212076. Fringes on CLIMB and VEGA. We record, 20 blocks. **HD212076S1S2.2016.11.23.01.48.** Seeing around 6-7 cm. Offset = 990 microns, CLIMB_B1 = 0.73, CLIMB_B2 = 0.09.

HD 212571

UT2h11: target HD 212571. Good fringes on CLIMB and VEGA, stable piston. Recording 20 blocks. **HD212571S1S2.2016.11.23.02.12.** Offset = 710 microns, CLIMB_B1 = 0.73, CLIMB_B2 = 0.09.

Spectral calibration: D_R2656_2016.11.23.02.26

V67 Programme S2POP5B1-W2POP5B2 HD 4526

UT2h40: check star HD 15318. slew on Calibrator 1 (HD 2913). Some cirrus on the sky. Difficult to find the fringes on CLIMB and VEGA. We found the fringes...not so much stable. We record, 20 blocks.

HD4526CAL1W2S2.2016.11.02.42. Seeing around 6 cm. Offset = 2500 μm , CLIMB_B1 = 0.30, CLIMB_B2 = 0.19.

UT3h08: slew on the target HD 4526. Recording, 20 blocks. **HD4526W2S2.2016.11.03.09.** Offset = 2650 μm , CLIMB_B1 = 0.30, CLIMB_B2 = 0.19. We see fringe peak at block 8. Good fringes. Seeing is stable in 5-6 cm.

UT3h22: go to Calibrator 2 (HD 6288). Recording, 20 blocks. **HD4526CAL2W2S2.2016.11.03.09. 03.22.** Not stable fringe, we find fast piston effect. A little better at the end. Offset = 2350 μm , CLIMB_B1 = 0.30, CLIMB_B2 = 0.19.

UT3h34: slew on the target. Recording, 20 blocks. **HD4526W2S2.2016.11.03.35.** Offset = 2400 μm ,

CLIMB_B1 = 0.30, CLIMB_B2 = 0.19. Stable fringes on CLIMB and VEGA. We found fringes on VEGA at block 6. Seeing is in 6-7 cm.

UT3h45: go to Calibrator 1. Persistent cirrus on the sky. Recording, 20 blocks.

HD4526CAL1W2S2.2016.11.03.46. Not so much stable fringes on CLIMB. Fringes in VEGA with SNR around 8. Offset = 2000 μm , CLIMB_B1 = 0.30, CLIMB_B2 = 0.19. The seeing is fluctuating around 4-8 cm.

Spectral calibration: D_R2700_2016.11.23.04.04

V66 Programme S2POP5B1-S1POP4B2

HD 203467

UT4h02: slew back on HD 203467. Problems with ople...waiting. Recording with 20 blocks.

HD203467S1S2.2016.11.23.04.10. Good fringes on CLIMB and VEGA. Offset = 2330 μm , CLIMB_B1 = 0.80, CLIMB_B2 = 0.19. Seeing around 7 cm.

HD 212076

UT4h40: HD 212076. Recording, 20 blocks. **HD212076S1S2.2016.11.23.04.42.** Very good fringes on CLIMB and VEGA. Offset = 710 μm , CLIMB_B1 = 0.90, CLIMB_B2 = 0.19. Seeing around 7 cm.

HD 212571

UT5h05: HD 212076. Recording, 20 blocks. **HD212571S1S2.2016.11.23.05.06.** The fringes are not very stable. Offset = 200 μm , CLIMB_B1 = 0.92, CLIMB_B2 = 0.19. Seeing around 5-6 cm.

Spectral calibration: D_R2656_2016.11.23.02.26

V50 Programme S1POP4B1-W1POP1B3 HD 22879

UT5h15: check star HD 21790. Cophased. Alignment on the Calibrator 3 (HD 23363). Recording, 20 blocks. **HD22879CAL3S1W1.2016.11.23.05.20.** Offset = 950 μm , CLIMB_B1 = -0.80, CLIMB_B2 = -0.80. Good seeing around 8-9 cm.

UT5h46: slew on the target HD 22879. Recording, 20 blocks. **HD22879S1W1.2016.11.23.05.47.** Very nice fringes on CLIMB but very faint on VEGA. Offset = 1000 μm , CLIMB_B1 = -0.80, CLIMB_B2 = -0.80. Seeing in 6-8 cm.

UT5h58: go to Calibrator 2 (HD 25340). Recording, 20 blocks. **HD22879CAL2S1W1.2016.11.23.06.00.** Not stable fringes on CLIMB but nice on VEGA. Offset = 950 μm , CLIMB_B1 = -0.06, CLIMB_B2 = -0.79. Seeing in 7-8 cm.

UT6h15: target. Recording with 20 blocks. **HD22879S1W1.2016.11.23.06.14.** Bright fringes on CLIMB but we find faint fringes on VEGA. Offset = 960 μm , CLIMB_B1 = -0.06, CLIMB_B2 = -0.79.

UT6h25: calibrator 3. Recording with 20 blocks. **HD22879CAL3S1W1.2016.11.23.06.26**. We find good fringes on CLIMB but faint on VEGA again. Offset = 830 μm , CLIMB_B1 = -0.06, CLIMB_B2 = -0.79. The seeing is around 6-7 cm.

UT6h45: back to Calibrator 2...we are not so much confident on the last point. Recording with 20 blocks. **HD22879CAL2S1W1.2016.11.23.06.46**. Bright and stable fringes on CLIMB and now we find fringes on VEGA! Offset = 850 μm , CLIMB_B1 = -0.06, CLIMB_B2 = -0.79. Good seeing around 8 cm.

Spectral calibration: D_R2700_2016.11.23.06.58

UT8h10: humidity > 80 % so Olli closed the telescopes...awaiting

UT8h42: humidity at around 75% and decreasing, opening the telescopes.

V16 Programme E1POP1B1-E2POP2B2-W1POP2B3 HD 42659

UT9h00: check star HD 41695. We do not find fringes on VEGA.

UT9h10: changing the check star to the Calibrator 3 (HD 37306). The same thing...trying the Calibrator 1 (HD 43955).

UT9h43: no fringes for Calibrator 1. It is not more possible to carry the observations of HD 42659.

V43 Programme S2POP5B1-W2POP5B2-W1POP2B3 HD 52265

UT9h43: check star HD 53244. CLIMB and VEGA are cophased. Offset S2 = 1000 μm , offset W1 = 1760 μm , CLIMB_B1 = 0.15, CLIMB_B2 = 0.07.

UT10h07: we slew on the Calibrator 1 (HD 46487). Recording, 20 blocks. **HD52265CAL1W2S2S1.2016.11.23.09.52**. Offset S2 = 1440 μm , Offset W1 = 1300 μm , CLIMB_B1 = 0.19, CLIMB_B2 = 0.08. Very bright fringes on CLIMB and VEGA. Good seeing around 9-10 cm.

UT10h20: target HD 52265. We record, 20 blocks. **HD52265W2S2S1.2016.11.23.10.25**. Fringes ok on CLIMB and VEGA at all (but we see 2 peaks on VEGA). Offset S2 = 1380 μm , Offset W1 = 1360 μm , CLIMB_B1 = 0.19, CLIMB_B2 = 0.08. Seeing around 7-8 cm despite fluctuations to 5 cm.

UT10h35: slew on Calibrator 2 (HD 49147). Recording, 20 blocks. **HD52265CAL2W2S2S1.2016.11.23.10.37**. Good fringes on CLIMB and VEGA (2 peaks again). Offset S2 = 790 μm , Offset W1 = 1350 μm , CLIMB_B1 = 0.18, CLIMB_B2 = 0.08. Seeing around 6-7 cm.

UT10h50: to the target. Recording, 20 blocks. **HD52265W2S2S1.2016.11.23.10.51** Good fringes too. Offset S2 = 1090 μm , Offset W1 = 1310 μm , CLIMB_B1 = 0.18, CLIMB_B2 = 0.08. Seeing started better around 8-9 cm, there are significant incursions to values 5-6 cm.

UT11h05: to the Calibrator 1 (HD 46487). Recording, 20 blocks. **HD52265CAL1W2S2S1.2016.11.23.11.05**. Good fringes on VEGA but not on CLIMB (worse tracking). Offset S2 = 860 μm , Offset W1 = 1150 μm , CLIMB_B1 = 0.23, CLIMB_B2 = 0.10. Seeing around around 8-9 cm (there are less fluctuations to 5-6 cm).

Spectral calibration: D_R2700.2016.11.23.11.21

V66 Programme W2POP5B2-W1POP2B3 HD 37202

UT11h25: alignment on HD 37202. Recording, 20 blocks. **HD37202W1W2.2016.11.29**. Very bright fringes on CLIMB and VEGA. Offset = 900 μm , CLIMB_B1 = -0.04, CLIMB_B2 = -0.17. Good seeing around 9-10 cm.

Spectral calibration: D_R2656.2016.11.23.11.50

V43 Programme W2POP5B2-W1POP2B3 HD 50890

UT11h50: check with HD 50890. Humidity near 80%, Olli closed the telescopes.

V66 Programme W2POP5B2-W1POP2B3 HD 37202

UT13h00 : decreasing in the humidity level permitted to reopen the telescopes. Not possible more to carry the observation with HD 50890 and we go back to HD 37202. However, no pupil on telescope W2 in reason of a tree...not possible to keep the observations.

End of the night.

