

2019-06-14 VEGA observation

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Arrival at UT 3:15, good conditions

V38, Salsi E2POP3V1 – W2POP5V2 – W1POP1V3 (W1=-300, right – E2=+150, left)

03:40: we go on sky. LABAO alignment on HD146051. LABAOs are too blurry for doing good flat except W2. Often the case for the first star of the night. ALGOLR do not start correctly but fixed with a restart. r0 around 6cm at the beginning.

04h00: calibrator HD145607. Looking for fringes with VEGA as CLASSIC is used for AO engineering in the first part of the night. Hard time to find the fringes. SO we try on a check star HD141513. Immediately there on W1 at 0.6 as expected. After a scan we found them at the expected position on E2 also. E2=3.1, W1=0.6. The seeing is really changing very fast, so fringes are not of good quality. We try again on the calibrator. **HD145607.2019.06.14.05.06**. Blind acquisition after checking W2W1 fringes 1.0 and W2E2 fringes 3.0. No tracking. W2W1 peak is close to the spike (error +90 μ m). E2W2 fringes really not obvious. r0 5-6cm. After 40 blocks W2W1 is close to the spike, E2W2 is maybe a little bit far on the left. To be checked but overall poor quality.

UT05h24: we try on the target. Adjustment of the pupils first. **HD145570.2019.06.14.05.33**. r0 around 6.5 cm. Fringes are ok on VEGA. No active tracking however but fringes are very stable however. 40 blocks recorded. Seeing is better, fringes are ok. 2=3.18, W1=0.75.

05h50: cal1 again. Blind cophasing, acquisition, and tracking! **HD145607.2019.06.14.06.03**. r0 6/7cm. 40 blocks again. End of delay on E2. Stop at block 23 but probably fringes lost on E2 from block 15...

06h10: POP1 on E2. New target. cal1=HD152614, used also for LABAO. W1 fringes ok at 0.2. E2 fringes are more difficult to find. r0 close to 5 now. We finally give up.

D_CMR720.2019.06.14.09.06

V67, Creevey W2POP5V2 – W1POP1V3 (W1=+150, left)

UT07h10: LABAO HD192577, check=HD184006. Fringes ok at 1.15 but poor quality on the check... Go to the cal. Recording. **HD187235.2019.06.14.07.44**. r0 now around 4.5cm. However after more than ten blocks the fringes are seen but not at the right position. At 08h45, winds are at 30kph. AO team ended their activity so we prepare again CLIMB and LDC. But very close to closing conditions...

UT09h15: we try again with CLIMB. But no at the end because of pollen, humidity and wind.

UT11h15: after concertation and considering the strong winds we decided to close.