OBSERVING LOG CHARA/VEGA 2018-08-11
Observers: Frédéric et Roxanne en direct de Calern
Norm sur la montagne

UT02h50 : We are ready…and still ash in the air!
Standby.

UT04h00: it seems that there is less ash in the sky. Norm opens the domes.

Configuration W2-POP3-B3 E2-POP2-B2 E1-POP1-B1
V52 Cepheids

UT04h00: we do the LABAO with HD202109.
UT04h12: we go to the first cal HD190993.
UT04h24: the PICO6 doesn't seem to work. Norm goes to the lab to check…and there it works. The box was off.
UT04h26: no flux on the blue camera. We can't access the low-level (*bas niveau*). We align on the red camera anyway.
UT04h38: we look for the fringes. The E2W2 fringes are there straightaway. But the blue camera is still out.
UT04h46: the connexion is back!
UT04h52: we record. 20 blocs. The peak 1 is very bright, peak 2 much fainter. r0 ~9 cm.
E1=-2390, E2=-3130, CLIMB_B1=6.619, CLIMB_B2=4.639.
HD190993.2018.08.11.04.51
UT05h02: we go to the target T Vul/HD198726.
UT05h02: recording. 20 blocs. We see 2 peaks.
E1=-2570, E2=-3270, CLIMB_B1=6.619, CLIMB_B2=4.639. r0 ~9 cm.
HD198726.2018.08.11.05.07

UT05h17: we go to the cal 2 HD196740. 20 blocs. At block 12 we guess the peak 3.
E1=-2370, E2=-3120, CLIMB_B1=6.619, CLIMB_B2=4.639.
HD196740.2018.08.11.05.20
UT05h17: back to the target T Vul/HD198726. 20 blocs.
E1=-2500, E2=-3190, CLIMB_B1=6.619, CLIMB_B2=4.639. r0 ~9 cm.
HD198726.2018.08.11.05.32
UT05h42: back to cal 2 HD196740. 20 blocs.
E1=-2340, E2=-3060, CLIMB_B1=6.639, CLIMB_B2=4.649. r0 ~8 cm.
HD196740.2018.08.11.05.45
UT05h54: back to target. Tracking is not very good, we don't see the fringes on VEGA.
UT06h00: we record anyway. We see the peak 1 but not really the peak 2. There is piston.
20 blocs.
E1=-2350, E2=-3020, CLIMB_B1=6.639, CLIMB_B2=4.649. r0 ~7 cm.
HD198726.2018.08.11.06.00
UT06h10: we go back to cal 2 HD196740. 20 blocs. 2 peaks visible.
E1=-2110, E2=-2900, CLIMB_B1=6.699, CLIMB_B2=4.669. r0 ~7 cm.
HD196740.2018.08.11.06.13

UT06h23: change of POP for W2 to have more delay: we go from **W2-POP3 → W2-POP5**
UT06h27: we go back to cal 1 HD190993.
UT06h43: no fringes on CLIMB…
UT06h50: realigning. The r0 decreases: 5 cm.
UT06h56: we change cal, going to cal 2 HD196740.
UT07h07: well well well… r0 ~4.8 cm.
UT07h10: we go to the object (brighter in K) to find the fringes, but fail. :-(
UT07h35: still no fringes.
UT07h40: Norm: « the seeing has dropped as the breeze came up ». r0 is below 5 cm.
UT07h44: we try the check star HD210027/iota Peg to find the fringes in CLIMB (too much resolved for VEGA).
UT07h53: we find fringes on this check star, not far from last position. Thus we slew to cal 3 HD208057.
UT08h07: it seems that we have fringes on CLIMB!
UT08h15: start recording. It will be difficult to record the target before the end of its observability… 20 blocs. r0 ~6 cm. At block ~12 we see the peak 3.
E1=-1790, E2=-2570, CLIMB_B1=6.619, CLIMB_B2=4.609.
HD208057.2018.08.11.08.15
UT08h25: done. We try to go to the target before the end of observability.
UT08h31: difficulties to find the fringes…
UT08h34: we finally got the fringes but we lost delay. Sorry Nicolas, we've tried…
UT08h35: spectral calibration.
D_CMR720_2018.08.11.08.39

Configuration W2-POP5-B3 E2-POP2-B2 E1-POP1-B1
V65 Hierarchical systems

UT08h42: we start with the LABAO HD181276. The r0 finally increases, ~9 cm! but rapidly decreases.
UT08h54: we go to the check star HD192696. There is a lot of fluctuations in the seeing.
UT09h09: no fringes…
UT09h11: RH seems to increase (72%). Norm: « can't go too high with ash also present »
UT09h14: finally fringes on the check star!!

UT09h16: we go to cal 1 HD177003.
UT09h26: still no fringes. r0~4 cm.
UT09h42: the humidity rises and with the ash we decide to close.
Standby.

Configuration W2-POP5-B3 E2-POP2-B2 E1-POP1-B1
V67 asteroseismic targets

UT10h22: the humidity has dropped so we reopen. We start with the LABAO star HD9270.
UT10h44: done on CLIMB. We align on VEGA.
UT10h54: we go to the target to find the fringes.
UT11h02: we go to cal 2 HD14191.
UT11h11: fringes in CLIMB. But no flux on VEGA…weird.
UT11h17: flux is back. We record! 20 blocs. We see 2 peaks. r0 ~7 cm.
E1=-2270, E2=-3020, CLIMB_B1=6.619, CLIMB_B2=4.619.
HD14191.2018.08.11.11.17
UT11h28: we go to the target HD8723. r0 ~4.5 cm :-S But nice fringes. It seems that we see a faint 3rd peak. 20 blocs.
E1=-2090, E2=-2840, CLIMB_B1=6.619, CLIMB_B2=4.629.
HD8723.2018.08.11.11.34
UT11h43: we go to the cal 1 HD10982.
UT11h50: Fringes on VEGA. At the same time crash of the control so no recording.
UT11h52: it's back. Recording. 20 blocs. r0 ~6 cm.
E1=-2120, E2=-2910, CLIMB_B1=6.619, CLIMB_B2=4.609.
HD10982.2018.08.11.11.53
UT12h02: we lost the tracking at the last block.
UT12h05: we go to the target HD8723. 20 blocs. r0 ~5 cm. Nice fringes.
E1=-2100, E2=-2740, CLIMB_B1=6.639, CLIMB_B2=4.639.
HD8723.2018.08.11.12.09
UT12h19: we go to the cal 2 HD14191.
UT12h19: fringes locked on CLIMB. We record. 20 blocs. Fluctuations on CLIMB, we hardly see the fringes on VEGA.
E1=-2180, E2=-2880, CLIMB_B1=6.639, CLIMB_B2=4.639.
HD14191.2018.08.11.12.26
UT12h30: block 8 we see the fringes now on VEGA. Humidity is rising up.
UT12h36: spectral calibration.
D_CMR720_2018.08.11.12.37

END OF THE NIGHT