

OBSERVING LOG CHARA/VEGA 2018-08-13

Observers: Frédéric et Roxanne en direct de Calern
Olli sur la montagne

UT02h45: We are ready. The data reduction from last night has not finished yet but we don't know why (no error message...).

UT03h05: Opening.

Configuration S1-POP4-B2 S2-POP5-B1 V73 Winds supergiant

UT03h10: We go to the LABAO star HD183913.

UT03h14: we go to the first target HD193237.

UT03h24: start recording.

HD193237.2018.08.13.02.56

Apparently the UT is not on time. Abort and we do it again.

HD193237.2018.08.13.03.28

40 blocs. CLIMB fringes are well stable, and we see a very bright fringe on VEGA. $r_0 \sim 11$ cm.

S2=-100, CLIMB_B1=7.289, CLIMB_B2=4.659.

The light is flickering in the GI2T, there might be a storm coming to Calern.

UT03h46: we go to the second target HD190603.

UT03h49: recording. 40 blocs. Nice fringes. $r_0 \sim 10$ cm.

HD190603.2018.08.13.03.49

S2=+50, CLIMB_B1=7.309.

UT04h08: we go to HD198478.

UT04h11: central control crashed.

UT04h13: recording for 40 blocs. $r_0 \sim 11$ cm. Nice fringes.

S2=+70, CLIMB_B1=7.279.

HD198478.2018.08.13.04.12

UT04h30: we go to the last target HD204172.

UT04h33: recording for 40 blocs. $r_0 \sim 12$ cm. Nice fringes.

S2=-110, CLIMB_B1=7.299. $r_0 \sim 10$ cm at the end.

HD204172.2018.08.13.04.33

UT04h50: spectral calibration.

[D_CMR656_2018.08.13.04.52](#)

Configuration S1-POP4-B2 S2-POP5-B1 V74 Chiavassa/Creevey

UT04h54: we start with the LABAO star HD177724.

UT04h56: we go to the check star HD192425. Nice fringe.

UT05h04: we go to cal 1 HD190993. 20 blocs. Nice fringes. $r_0 \sim 12$ cm.

S2=+170, CLIMB_B1=7.319.

HD190993.2018.08.13.05.07

UT05h17: we go to the target HD190658. 20 blocs.

S2=+260, CLIMB_B1=7.319.

HD190658.2018.08.13.05.19

UT05h28: we go to the cal 2 HD189090.

S2=+240, CLIMB_B1=7.319. $r_0 \sim 13$ cm. 20 blocs.

HD189090.2018.08.13.05.30

UT05h40: we go back to the target HD190658.

S2=+250, CLIMB_B1=7.319.

HD190658.2018.08.13.05.42

UT05h50: back to cal 2 HD190993. Lost connexion with MtW ? Back a few min after.

UT05h56: recording. 20 blocs. r0 ~13 cm. Very nice, very stable.

S2=+100, CLIMB_B1=7.319.

HD190993.2018.08.13.05.56

UT06h04: back to the target HD190658. 20 blocs. Still good conditions.

S2=+250, CLIMB_B1=7.319.

HD190658.2018.08.13.06.06

UT06h16: we finish with the cal 2 HD189090.

S2=+210, CLIMB_B1=7.319. 20 blocs.

HD189090.2018.08.13.06.18

UT06h29: spectral calibration.

D_CMR720_2018.08.13.06.30

Configuration S1-POP4-B2 E1-POP1-B1 - with LDC on V01 Host stars

UT06h33: we go to the LABAO star HD196867. We keep the LDC for now; let's see if we can use them.

UT06h42: we go to the cal 2 HD196740 to align.

UT06h45: aligned on VEGA.

UT06h57: fringes on CLIMB. And VEGA fringes are almost at the right position!

UT06h59: recording. 30 blocs.

E1=+350, CLIMB_B1=7.389. Nice fringe, move a little. r0 ~9 cm (but we changed the config...)

The fringes move a little bit less from bloc 24, r0 ~11 cm.

HD196740.2018.08.13.06.59

UT07h14: we go to the target HD209458.

UT07h18: fringes on CLIMB! 77 photons on VEGA. And we think that we see something!!

UT07h19: recording. The tracking is not bad! r0 ~8 cm. We don't see anything on VEGA...

E1=+360, CLIMB_B1=7.389. 40 blocs.

HD209458.2018.08.13.07.19

The stability of the tracking on CLIMB varies with very good moments. But still nothing on VEGA at 10 blocs. ~50 photons in average.

Bloc 23: something seems to come out of the noise...but very close to aigrette :-S

The tracking is rather good. r0 ~11 cm.

Bloc 26: a peak seems to come out, at the right position.

Bloc 40: this peak persists, even if faint (expected).

UT07h38: we go to cal 5 HD209459. Recording, 30 blocs (20 should be enough by far).

E1=+320, CLIMB_B1=7.419. Very nice fringes. r0 ~10 cm. At bloc 17 the piston is a bit higher.

HD209459.2018.08.13.07.42

Piston a bit higher at the end.

UT07h56: back to the target HD209458.

UT08h00: fringes on CLIMB, but really weak. Recording on VEGA.

E1=+270, CLIMB_B1=7.389. 40 blocs. r0 ~7 cm.

HD209458.2018.08.13.08.00

The guiding is less good but we see the peak on VEGA better! At bloc 20 (or even before).

Fringes move on CLIMB, bloc 31.

UT08h18: back to cal 5 HD209459. Control crashes (it's the 10th time of the night).

UT08h18: difficult to find fringes on CLIMB.

UT08h23: recording. Fringe immediately, 20 blocs. r0 ~9 cm.

E1=+280, CLIMB_B1=7.449. A lot of piston.

HD209459.2018.08.13.08.23

UT08h34: we re-align on a check star. Central control crashes...

UT08h44: back to target. Recording on VEGA.

E1=+280, CLIMB_B1=7.389. 40 blocs. r0 ~9 cm. Tracking not bad.

HD209458.2018.08.13.08.44

Tracking quite good, S/N=4! We see the fringes, bloc 25!
We clearly see the peak at bloc 38. Guiding really not bad.

UT09h02: we go back to cal 5 HD209459. 20 blocs.

E1=+160, CLIMB_B1=7.459.

HD209459.2018.08.13.09.06

UT09h15: and back to target.

UT09h18: fringes on CLIMB. Recording. 40 blocs. Tracking is rather good but with some variations.

E1=+140, CLIMB_B1=7.389. r0 ~10 cm.

HD209458.2018.08.13.09.18

At bloc 35 we see a peak, not very sharp though. CLIMB fringes move a little. r0 ~11 cm.

UT09h36: back to cal 2 HD196740.

UT09h44: E1 acquisition crashed.

UT09h45: recording. 20 blocs. Nice fringes, tracking rather stable.

E1=+-380, CLIMB_B1=7.419. r0 ~9 cm.

HD196740.2018.08.13.09.45

D_CMR720_2018.08.13.09.56

Configuration S1-POP2-B2 W1-POP3-B3 V01 Host stars

UT10h00: we change config but we stay on the same target. We star with the LABAO star HD210007.

UT10h24: difficult to find fringes. W1 might be off a lot.

UT10h49: still no fringes.

UT10h57: still no fringes :-)

UT11h14: no fringes so we change configuration.

Configuration E2-POP2-B2 S2-POP5-B1 - with LDC on V01 Host stars

UT11h15: we go to HD209459, cal 5.

UT11h25: server trouble. Sorted out right away. But tip tilt problems.

UT11h29: we go to the LABAO star HD210027.

UT11h36: nothing works on VEGA...we have to relaunch everything (almost). It's not working smoothly on VEGA interface.

UT11h44: fringes on CLIMB, not sure on VEGA.

UT11h50: we see the fringes on VEGA but not at the right place.

UT11h59: finally cophased! Recording. 20 blocs. Nice fringe.

Piston is rather low.

S2=+130, CLIMB_B1=6.549, CLIMB_B1=4.659. r0 ~11 cm.

HD209459.2018.08.13.11.59

For future ref, the target HR7891 could be a good check star.

UT12h05: go to target HD209458.

UT12h11: recording. 40 blocs.

S2=+190, CLIMB_B1=6.569. r0 ~10 cm.

HD209458.2018.08.13.12.12

Nice peak since bloc 5! Tracking is quite stable. We see well the fringe at bloc 20.

UT12h28: we go the cal 5 HD209459.

S2=-50, CLIMB_B1=6.559. r0 ~11 cm. Nice fringes, well guided.

HD209459.2018.08.13.12.32

D_CMR720_2018.08.13.12.43

☪☪☪ *THE END OF THE NIGHT* ☪☪☪