

Log CHARA/VEGA 2020-06-15

Observers: Fred (VEGA), Anthony the young (Report, coffee, wine and good music), Olli (Mt Wilson)

UTC time:

03:00 Starting Observing Night

E2 POP1 B2 W2 POP5 B3 (ref)

V38 (A. Salsi) – HD89021

OPD offset: +150 μ m (left)

Target HD89021, PI: 'Salsi', Prog: 'V38'.

Cal1 = HD90470

Cal2 = HD90840

Check = HD85795

03:09 Olli is trying to troubleshoot some wfs issues

03:22 VEGA is ready

03:41 Slewing to the check star

03:55 aligning VEGA

04:25 Fringes found with VEGA. Waiting for CLIMB ...

04:31 Fringes found on CLIMB but weak.

HD90470.2020.06.15.04.32

E2 -1660

CLIMB_B2=5.09

20 blocs

⇒ Fringes were jumping a bit

⇒ Seeing is around 5 cms but we think it is better than that

HD89021.2020.06.15.04.47

E2 -1410

CLIMB_B2=5.09

20 blocs

HD90840.2020.06.15.05.06

E2 -1500

CLIMB_B2=5.09
20 blocs

HD89021.2020.06.15.05.19

E2 -1340
CLIMB_B2=5.09
20 blocs

- ⇒ Peak well visible, stable fringes
- ⇒ Seeing is better and better but AO is still indicating R0 = 2.6 cms ...

HD90470.2020.06.15.05.32

E2 -1400
CLIMB_B2=5.09
20 blocs

HD89021.2020.06.15.05.46

E2 -1220
CLIMB_B2=5.09
20 blocs

- ⇒ Good fringes, sharp peak

HD90840.2020.06.15.06.00

E2 -1270
CLIMB_B2=5.09
20 blocs

D_CM720.2020.06.15.06.10

E2 POP1 B2 W2 POP5 B3 (ref)
V01 (R. Ligi) – HD133112
OPD offset: +150 μ m (left)

Target: HD133112, Pl: 'Ligi', Prog: V01
Cal1: HD124988
Cal2: HD154445
Align: HD132052; Check: HD129956

06:17 Aligning NIRO and VEGA.

06:25 Seeing is very good, we get fringes very fast even with $v2 = 0.3$.

HD124988.2020.06.15.06.42

E2 -2150
CLIMB_B2=5.13
20 blocs

HD133112.2020.06.15.06.57

E2 -2180
CLIMB_B2=5.13
40 blocs

⇒ Conditions are very good, the fringes are easy to find and stable.

⇒ SNR is around 11.

⇒ Still bad R0 indicated but we it definitely should be higher.

07:17 SNR is around 24 now, the conditions are excellent !

HD154445.2020.06.15.07.22

E2 -2460
CLIMB_B2=5.13
20 blocs

HD133112.2020.06.15.07.42

E2 -2100

CLIMB_B2=5.13

40 blocs

⇒ We lost fringes at the last bloc ...

HD154445.2020.06.15.08.07

E2 -3260

CLIMB_B2=5.13

30 blocs

⇒ SNR is around 23 !

⇒ Fringes are a bit weak and jumpy on CLIMB

D_CM720.2020.06.15.08.22

E2 POP2 B2 W2 POP4 B3 (ref)

V67 (O. Creevey) – HD5015

OPD offset: +150 μ m (left)

Target: HD5015, PI: 'Creevey', Prog: V67

Cal1: HD223128

Cal2: HD3924

Align: target; Check: target

08:40 E2 LDC out of range

08:43 Problem solved quickly

HD3924.2020.06.15.08.52

E2 -2330

CLIMB_B2=4.97

30 blocs

⇒ Fringes are weak on CLIMB but peaks are well visible with VEGA with a SNR around 9-10

HD5015.2020.06.15.09.14

E2 -2440

CLIMB_B2=4.97

30 blocs

⇒ Still excellent SNR, reaching 30 now !

HD223128.2020.06.15.09.37

E2 -2690

CLIMB_B2=4.97

30 blocs

HD5015.2020.06.15.09.55

E2 -2510

CLIMB_B2=4.97

30 blocs

10:32 Olli does not find fringes on CLIMB. He has to realign on the target.

10:57 Somehow one of the beams has completely disappeared. Olli needs to go to the lab to see where it is.

11:40 Olli finally finds the spot. He has now to realign

11:45 Fringes are still difficult to find ...

12:07 The situation will not evolve, day is almost here, so we end the night.

D_CM720.2020.06.15.12.12