Log CHARA/VEGA 2020-06-10

Observers: Fred (VEGA), Nicolas (Report and Coffee**S**)
Olli (Mt Wilson)

UTC time:
03:00 Starting Observing Night

W1 POP2 B2 W2 POP5 B3 (ref)
V67 (O. Creevey) – HD89221
OPD offset: +150μm (left)

Target HD89221, PI: 'Creevey', Prog: 'V67'.
Cal1 = HD89904
Cal2 = HD95934
LABAO = HD82741; check = HD85795

We have the full AO system set up today (contrary to yesterday).

Olli, 03:05
I have some issues with W1 WFS, trying to fix them now
Olli, 04:11
Ok locked now. I'm experimenting a bit here. Could you see how it looks like to you?
I'm running E1 and W1 with labao servo and zauto. W2 on flat because the blue beacon seems to leak to the wfs

04:19 Alignment of VEGA on the check. The pupils and the number of photons are much better than yesterday.

04:23 Looking for CLIMB fringes. NIRO crash.
04:41 Fringes with CLIMB. Beam 2 still weak in IR.

Seeing of 5-6cm like yesterday. It would be interesting to compare with previous night (same program and stars).

04:52 Still aligning AOs… issues…

HD89904.2020.06.10.04.57
W1 -1040
CLIMB_B2=4.60
20 blocs
Seeing around 6 cm like yesterday but nice CLIMB and VEGA fringes. This dataset should be compared to the one of yesterday: same hour angle, rather same seeing, but with AOs.

HD89221.2019.06.10.05.12
W1 -1060
30 blocs
The TELAO says 4 cm (probably underestimated)
CLIMB and VEGA fringes are nice.
Around blocs 15-17, 27-28, we lost CLIMB tracking.

Fringes difficult to see on CLIMB and VEGA. Bad conditions again?
HD89904.2020.06.10.05.32
W1 -960
CLIMB_B2=4.56
20 blocs
“Tracking pas génial génial”. Fringes are still nice, but a bit of lower quality than for the first cal 1.

HD89221.2019.06.10.05.45
W1 -1040
30 blocs

Weak fringes on CLIMB.
HD95934.2020.06.10.06.10
W1 -1040
20 blocs

D_CMR720.2020.06.10.06.24

E1 POP1 B1 W1 POP2 B2 (ref)
V38 (A. Salsi) – HD160762

OPD offset: +150μm (left)

Target = HD 160762
Cal 1 = HD 167965
Cal 2 = HD 162132

Target is used for check.
06:50 no flux in IR on W1. Issues. Fixed by Olli. Better for VEGA.

HD162132.2020.06.10.07.24
E1 2000
CLIMB_B1=6.14
CLIMB_B2=4.65
30 blocs
Extremely weak for CLIMB and VEGA. At the limit in term of magnitude for CLIMB (K=6.2) and quite difficult for VEGA (V=6.5). At the end of 30 blocs VEGA fringes are not clear. Also, data to be compared with the previous night (without AO). Seeing of 9 cm from TELAO

Check of VEGA alignment.
Fringes on CLIMB are very weak on such bright star ! Olli is checking NIRO alignment.
Olli, 09:52
I wonder if the Niro alignment suffers from having the active labao on
HD160762.2020.06.10.07.52
E1 2140
CLIMB_B1=6.17
20 blocs

07:57 Issues again with NIRO alignment…
HD167965.2020.06.10.08.31

E1 2260
Contrarily to the first reference stars, CLIMB fringes are well tracked and VEGA fringes are clear. Seeing of 9 cm.
Bloc 5-9, CLIMB fringes lost!
35 blocs

8.46: Swing of the scopes around
HD160762.2020.06.10.09.04
E1 2090
CLIMB_B1=6.23
20 blocs

HD167965.2020.06.10.09.18
E1 2300
30 blocs

HD160762.2020.06.10.09.37
E1 1960
CLIMB_B1=6.25
CLIMB waterfall is nice. VEGA fringes clear.
8-11 dead.
25 blocs

HD167965.2020.06.10.09.55
E1 2110
15 blocs
Tracking CLIMB a bit difficult. This is a bit strange. The water is really bad despite AOs…. NIRO alignment needed probably.

D_CMR720.2020.06.10.10.11

W1 POP2 B2 W2 POP5 B3 (ref)
V70 (R. Klement) – HD193237

OPD offset: +150μm (left)

2T with VEGA on
W1 POP2 on beam 2
W2 POP5 on beam 2 (ref)
Target= HD193237
Cal 1= HD191243
Cal 2= HD197392
Target=check

Observations are done at 656nm.

When doing the check, we realize that we were completely misaligned on W1…
10:24 OPLE crash

HD197392.2020.06.10.10.45
E1 -1030
CLIMB_B2=4.68
Nice CLIMB and VEGA fringes

10:55 Swing around
HD193237.2020.06.10.11.14
E1 -980
Nice CLIMB and VEGA fringes

HD191243.2020.06.10.11.30
E1 -1000

10:55 Swing around
HD193237.2020.06.10.11.44
E1 -1020
Nice CLIMB and VEGA fringes

HD191243.2020.06.10.11.58
E1 -1020
Nice CLIMB and VEGA fringes

D_CMR656.2020.06.10.12.08