Log CHARA/VEGA 2019-08-20

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

UTC time:
02:40 Starting Observing Night

~~E2 POP2 B1 W2 POP5 B2 W1 POP1 B3 (ref)~~
E2 POP2 B1 W2 POP5 B2 (ref) W1 POP1 B3

V65 (D. Mourard) – V1143 Cyg

OPD offset: +150μm (left) -300μm (right)

First target is HD185912
Cal1 = HD177003
LABAO = HD181276 ; check = HD192696
E2 pupils is nice.
03:10 aligned VEGA and CLIMB
The flux on W1 is twice lower than other telescopes…
Seeing is good: around 12 cm.

Norm: I'm getting no fringes +- 1cm
Norm: OPLE server is not behaving, as it did at end of night
I will go to lab and check computer, clocks are stopped on NIRO
Technical Mail of Matt:
Good evening,
We are having some trouble with NIRO tonight. The NIRO time and sidereal time clocks are frozen in the CLIMB server. Norm says that this began happening near the end of last night but a reboot would fix the problem. Tonight it started up this way and a reboot does not help. I recall there being a bios setting that had to be correct for the clock card to work properly, but I do not remember exactly what it was. Any help would be appreciated.
Answer of Lazlo:
I spoke with Norm and hopefully things are good now.
The three LEDs (2 green, 1 yellow) has to be blinking on the clock receivers. The fast green shows that the 1kHz signal is present. The slow green is the same for the 1Hz signal. The yellow is blinking when a particular interrupt routine assigned to IRQ11 is running fine. When the interrupt is requested the yellow comes on when the interrupt routine has finished it goes off. IRQ11 has to be assigned to Legacy as opposed to PnP in the BIOS. It has been set to Legacy but sometimes, for some unknown reason, the assignment gets ignored. So assign IRQ11 to PnP then again to Legacy in the BIOS. Save it with F10 and let it boot. This should fix it.

04:04 The problem seems to be fixed.
04:40 The problem is really fixed.
04:46: trying to cophase CLIMB and VEGA. *It looks like we cannot talk to ople with CLIMB Gui. Actually, Norm use B2 as a ref because W2 was not tracking, but we did not see it. We believed B3 was the ref. The new config is thus B2 as a ref.*

HD177003.2019.08.20.05.13

E2 = -1880µm

W1= 1250 µm
CLIMB_B1=7.64
CLIMB_B2=4.85
30 blocks
Excellent conditions! Nice fringes CLIMB and VEGA. Seeing of 10 cm.

HD185912.2019.08.20.05.30

E2 = -2000µm

W1= -1340µm
Fringes VEGA 1-2 seen, not the others.

HD177003.2019.08.20.05.47

E2 = -1830µm

W1= -1200µm
Nice fringes

HD185912.2019.08.20.06.05

E2 = -1860µm

W1= -1260µm
CLIMB tracking is not very good.

HD177003.2019.08.20.06.21

E2 = -1710µm

W1= -1140µm
CLIMB_B1=7.70
CLIMB_B2=4.88
Nice fringes

Change of POP

E2 POP2 B1 W2 POP5 B2 (ref) W1 POP2 B3

HD177003.2019.08.20.06.53

E2 = -1610µm

W1= -1400µm
CLIMB_B1=7.67
CLIMB_B2=4.85
Nice fringes

HD185912.2019.08.20.07.12

E2 = -1700µm

W1= -1490µm
Nice 2-3 fringes. 1-2 are not seen.

HD177003.2019.08.20.07.28

E2 = -1490µm

W1= -1330µm

HD185912.2019.08.20.07.44

E2 = -1580µm

W1= -1440µm
2-3 is seen and perhaps 1-3

HD177003.2019.08.20.08.01

E2 = -1370µm

W1= -1290µm

Block 28 we lost fringes (no delay). We stop at block 29. Nice fringes. Excellent conditions.

D_CMR720.2019.08.19.08.16

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

target = HD182694
cal1=HD184171
cal2=HD183534
LABAO=HD184006
check CLIMB = target
check VEGA = cal 1

08:40 NIRO issues

HD184171.2019.08.20.08.51
W1 -720
CLIMB B1 = 7.46
CLIMB B2 = 4.65
Nice fringes

HD182694.2019.08.20.09.02
W1 -950

To cal 2
CLIMB issues, we are not able to move the fringes from the Gui. OPLE issues. NIRO issues. The fringes are found on CLIMB finally but weak. CLIMB waterfall is horrible. The seeing

is good, buit the star in low in elevation. Problems with CLIMB, difficult to say.

HD183534.2019.08.20.09.41
W1 -1670

HD182694.2019.08.20.09.52
W1 -860
CLIMB B1 = 7.50
CLIMB B2 = 4.68

HD184171.2019.08.20.10.05
W1 -660
CLIMB B1 = 7.54
CLIMB B2 = 4.76
Nice fringes

HD182694.2019.08.20.10.16
W1 -860
CLIMB B1 = 7.52
CLIMB B2 = 4.70

HD183534.2019.08.20.10.28
W1 -1070
CLIMB B1 = 7.58
CLIMB B2 = 4.66

D_CMR720.2019.08.20.10.38

S2 POP2 B1 W2 POP5 B2 (ref) W1 POP2 B3
V38 (A. Salsi)
OPD offset: +150μm (left) -300μm (right)

Target=HD886
cal 1 = HD1439
cal 2 = HD560
labao=check=target

HD560.2019.08.20.11.13
S2 -660 um
W1 -880 um
CLIMB B1 = 7.46
CLIMB B2 = 4.84

HD886.2019.08.20.11.25
S2 -600um
W1 -900 um

HD1439.2019.08.20.11.43
S2 -520 um
W1 -1100 um
CLIMB tracking is tricky. VEGA fringes are weak.

HD886.2019.08.20.11.56
S2 -410um
W1 -830um
CLIMB B1 = 7.48
CLIMB B2 = 4.85

Restart OPLE
HD560.2019.08.20.12.19
S2 -310 um
W1 -800 um
CLIMB B1 = 7.50
CLIMB B2 = 4.87

HD886.2019.08.20.12.33
S2 -250um
W1 -850um

HD560.2019.08.20.12.46
S2 -380 um
W1 -740um
CLIMB B1 = 7.52
CLIMB B2 = 4.88
Very high seeing at the end of the night.

D_CMR720.2019.08.20.12.56