

Log CHARA/VEGA 2020-06-13

Observers: Fred (VEGA), Anthony the Old (Report)
Norm (Mt Wilson)

UTC time:

03:05 Starting Observing Night

E1 POP1 B1 - S1 POP5 B2 - W1 POP1 B3

V01 (R. Ligi) – HD133112

OPD offset: +150 μ m (left)

Target HD133112 (known also as HR5599)

Cal1 = HD124988

Cal2 = HD154445

LABAO = HD132052;

Check1 = HD132052 (Bright but big mR=4.2 D=0.64mas)

Check2 = HD129956 (Small but dim mR=5.6 D=0.23mas)

03:15: Pointing to the Check1.

03:38: NIRO aligned on Check1

03:40: Pupils are good on VEGA.

03:45: Very ugly fringes on CLIMB r0~4cm

03:50: Flux optimized on VEGA. Going to Check2

04:10: Norm says he locked the fringes but where are they?

04:12: That's ugly! CLIMB cannot track on that!!!!

04:13: Maybe we have a peak on VEGA but that's also beurk

04:15: Norm will try to realign NIRO. It seems that with the AOs on we get misaligned beam at each new preset.

04:18: Fred also found that VEGA was misaligned too.

04:20: A bit more flux on CLIMB but still super badly locked fringes. Maybe there's a problem with AOs.

04:40: Norm went to a bright target to do flats for the AOs.

05:08: Norm says he cannot improve the situation. Maybe the seeing is really too bad. r0 is still of the order of 4cm.

05:30: Back to check2 after full realignment. AOs are off

05:37: Still same awful fringes on CLIMB.

06:00: We'll try to go to an easier config and target.

E2 POP1 B1 – E2 POP2 B2 - W1 POP1 B3
V70 (R. Klement) – P Cyg
OPD offset: +150 μ m (left)

Target HD193237
Cal1 = HD191243
Cal2 = HD197392
Check = Target

06:08: Slewing to the target as a check star
06:25: E2 cart stuck. Rehomining
06:39: E2 is back.
06:52: NIRO Aligned.
06:56: Fringes found by CLIMB, a bit shaky but bright at least.

HD193237.2020.06.12.06.59

E1: 3040
CLIMB_B1= 6.02
CLIMB_B2= 4.91
20 blocks
07:00: Nice fringes on VEGA.
07:09: Gong to Cal1.
r₀~6.5cm

HD191243.2020.06.12.07.17

E1: 3020
20 blocks
Shaky and faint fringes on CLIMB. Very weak peak on VEGA.
07:24: Fringes on CLIMB gets weaker. Fred think we are drifting during the observation.
r₀~6.5cm
07:26: Done back to target

07:33: Norm cannot turn off the red LED on E2. He'll do a power cycle of the AOB.

HD193237.2020.06.12.07.43

E1: 2980

20 blocks

07:43: Shaky fringe on CLIMB but nice peak on VEGA.

07:09: Going to Cal1.

$r_0 \sim 6.5\text{cm}$

09:52: Going to CAL2

HD197392.2020.06.12.07.58

E1: 2960

Shaky and faint fringes on CLIMB. Very weak peak on VEGA.

30 blocks

$r_0 \sim 4.5\text{cm}$

08:12: Done back to target

HD193237.2020.06.12.08.15

E1: 2980

20 blocks

Fred think the fringes are nicer than the previous observation of this target.

$r_0 \sim 5\text{cm}$

08:12: Done back to CAL1 which seems better than CAL2.

HD191243.2020.06.12.08.32

E1: 3030

20 blocks

Less shaky and less faint fringes on CLIMB than before. Weak peak on VEGA. Maybe the seeing is getting better.

$r_0 \sim 6\text{cm}$

08:41: Done back to target

HD193237.2020.06.12.08.45

E1: 3030

20 blocks

It seems a bit better again.

$r_0 \sim 5\text{cm}$

08:55: Done back to CAL1

HD191243.2020.06.12.09.00

E1: 3110

20 blocks

Almost nice fringes. Fairly stable and bright on CLIMB and strong peak on VEGA.

$r_0 \sim 6\text{cm}$

D_CMR656.2020.06.12.09.13

S2 POP5 B1 – S1 POP4 B2 - W1 POP1 B3
V70 (R. Klement) – P Cyg

OPD offset: +150 μ m (left)

Target HD193237

Cal1 = HD191243

Cal2 = HD197392

Check = Target

09:32: Periscopes stuck! Restarting server.

09:45: Still no periscope. Norm is going to the lab.

09:54: Fixed

HD193237.2020.06.12.10.07

S2: 1200

CLIMB_B1= 7.91

CLIMB_B2= 4.91

20 blocks

Nice fringes on CLIMB and peak on VEGA.

r₀~3cm

10:16: Done Let's go to CAL1.

10:28: Oups! The star is close to transit. Going to CAL2.

11:03: No fringe on CLIMB. Let's go back to CAL1.

HD191243.2020.06.12.11:30

S2: 1360

20 blocks

Very shaky and weak fringes on CLIMB.

Very faint peak on VEGA

r₀~5cm

HD193237.2020.06.12.11.48

S2: 1370

20 blocks

Ugly fringes on CLIMB (moving a lot). And not that good a peak on VEGA.

HD191243.2020.06.12.12.03

S2: 1490

20 blocks

Less bad than before but still not good.

$r_0 \sim 5\text{cm}$

D_CM656.2020.06.12.12.14