

## Log CHARA/VEGA 2019-10-04

Observers: Fred (VEGA), Anthony (Slave), Olli (Mt Wilson)

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### UTC Time :

**01:48** Checking the coffee's machine. Nothing's wrong, ready to be used for all the observing run.

**S2 POP5 B1 S1 POP4 B2 (ref)**  
**V70 (R. Klément)**  
**OPD offset : +750  $\mu$ m**

**Target = Deneb**

**No cal**

**LABAO = HD194093 ; check = HD192685**

**02:30** No light on VEGA ... No light on W1 too.

**03:59** Swapping the deformable mirror for a flat one on S1.

**04:37** AOs are done, ready for aligning, but still no light on VEGA ...

**05:03** Problem solved, re-aligning

**05:09** OPLE crash

**HD197345.2019.10.04.05.21 => 40 blocks**

S2 = 4780

CLIMB\_B1 = 7.19

CLIMB\_B2 = 4.58

AH = 1h50

**D\_CHR656.2019.10.04.05.40**

**E2 POP1 B1 W2 POP5 B2 (ref)**  
**V01 (R. Ligi)**  
**OPD offset : +150  $\mu$ m**

**Target = HD189733**

**Cal1 = HD190993 ; cal2 = HD196740**

**LABAO = HD186791; check = HD187811**

**HD190993.2019.10.04.06.18**

E2 = 70

CLIMB\_B1 = 7.69

CLIMB\_B2 = 4.83

R0 = 7 cm

**HD189733.2019.10.04.06.30**

E2 = 270

CLIMB\_B1 = 7.69  
CLIMB\_B2 = 4.83

HD196740.2019.10.04.06.51

E2 = 70  
CLIMB\_B1 = 7.69  
CLIMB\_B2 = 4.83

HD189733.2019.10.04.07.02

E2 = 550  
CLIMB\_B1 = 7.69  
CLIMB\_B2 = 4.83  
Climb tracking is not very good  
Peak well identifiable from block n°25

HD190993.2019.10.04.07.22

E2 = 630  
CLIMB\_B1 = 7.69  
CLIMB\_B2 = 4.83  
R0 = 4 cm

HD189733.2019.10.04.07.34

E2 = 830  
CLIMB\_B1 = 7.69  
CLIMB\_B2 = 4.83

07:51 Humidity level raised above 80%, we must close the telescopes.

D\_CM720.2019.10.04.07.52

**S2 POP5 B1 S1 POP4 B2 (ref)**  
**V27 (D. Mourard)**  
**OPD offset : +750  $\mu$ m**

11:21 Humidity strongly decreased, we can re-observe.

11:29 Aligning VEGA.

HD31964.2019.10.04.11.35

S2 = 1430  
CLIMB\_B1 = 7.29  
CLIMB\_B2 = 4.62

D\_CHR656.2019.10.04.12.03

HD31964.2019.10.04.12.08

S2 = 1320

CLIMB\_B1 = 7.24  
CLIMB\_B2 = 4.62

D\_CHR770.2019.10.04.12.36

HD31964.2019.10.04.12.47

S2 = 1450  
CLIMB\_B1 = 7.29  
CLIMB\_B2 = 4.62

D\_CHR589.2019.10.04.13.14

**13:15** End of the night.