

Observational log CHARA/VEGA 2015-12-03

Observers: Frédéric, Ulrike, and Olli
Instruments: VEGA & CLIMB(tracking)

Configuration:

Telescope	Beam	PoP
S2	B1	P5
E1	B1	P1
(E2)	B1	P2
S1	B2	P4
W2	B2	P5
W1	B3	P1

Beginning of the observation:

00.40 Arrived at the control room. E2 not available.
01.15 Weather: some high clouds.
01.30 Seeing ≈ 7 cm

Programme: V66 (Be survey), PI: A. Meiland

01.38 Baseline S2S1 (reference S1).
Pointing to HD212571 and aligning VEGA. Still some high clouds.
02.09 Recording HD212571 [HD212571S1S2.2015.12.03.01.32](#), 40 blocks, fringe peak visible, seeing $\approx 7 - 8$ cm, **Offsets:** S2 980 μm , CLIMB-B1 -0.59 mm, CLIMB-B2 -0.36 mm
02.30 Pointing to HD191610 and realigning VEGA. Less clouds.
02.59 More clouds.
03.36 No fringes found. End of observability.
03.54 Pointing to HD29488 for alignment (double star of similar brightness, possible to confuse, but ok for aligning). Network is very slow.
04.19 Pointing to science target HD37202. No light on W1 presumably because of a tree around 80-110 degrees Az.
04.42 W1 image appearing from behind the tree. NIRO alignment done.
04.44 Recording HD37202 [HD37202S1S2.2015.12.03.03.53](#), 40 blocks, stable fringes, no clouds, seeing ≈ 7 cm, **Offsets:** S2 2700 μm , CLIMB unchanged, S/N ≈ 30 .
Spec Spectral calibration [D_R2656.2015.12.03.14.21](#).

Programme: V43 (Asteroseismic targets), PI: O. Creevey

05.17 Baseline S2W2 (reference W2).
Pointing to HD38899 for aligning and co-phasing.
05.40 NIRO alignment not possible. Pointing to science target HD43587 for alignment.
06.05 Back to HD38899 for VEGA alignment and co-phasing. **Offsets:** S2 1750 μm , CLIMB-B1 -1.09 mm, CLIMB-B2 -0.36 mm.
06.50 Recording HD43587 [HD43587W2S2.2015.12.03.06.29](#), 40 blocks, fringes visible, seeing ≈ 6 cm, **Offset** S2 1520 μm , S/N ≈ 3 .
07.10 Pointing to Cal1 HD46487. NIRO alignment difficult because of jumping image and weak fringes. Furthermore, NIRO and its server crashed.
07.44 Recording Cal1 HD46487 [HD43587CAL1W2S2.2015.12.03.07.08](#), 40 blocks, faint fringes, seeing ≈ 7 cm, **Offsets:** S2 720 μm , CLIMB-B1 -1.12 mm, S/N ≈ 4
08.23 Recording HD43587 [HD43587W2S2.2015.12.03.08.01](#), 40 blocks, fringes not visible, seeing ≈ 5 cm, **Offset** S2 1050 μm , CLIMB-B1 -1.09 mm, S/N ≈ 2 . Weather: gusts of ≈ 15 km/h

09.15 Recording Cal1 HD46487 [HD43587CAL1W2S2.2015.12.03.08.39](#), 40 blocks, **Offsets: S2 220 μm , CLIMB-B1 -1.12 mm**, S/N \approx 7
09.44 Recording HD43587 [HD43587W2S2.2015.12.03.09.32](#), 40 blocks, fringes not visible, seeing \approx 4 cm, **Offset S2 500 μm** , thin clouds, CLIMB fringes weak and unstable.
10.26 Recording Cal1 HD46487 [HD43587CAL1W2S2.2015.12.03.10.00](#), 40 blocks, **Offsets: S2 -220 μm**
Spec Spectral calibration [D.R2700.2015.12.03.14.15](#).

Programme: V50 (Metal-poor benchmark stars), PI: O. Creevey

10.48 Baseline W2W1 (reference W2). Aligning on HD83809.
11.31 Recording Cal1 HD90994 [HD89962CAL1W2W1.2015.12.03.10.55](#), 20 blocks, clear fringes, S/N \approx 14, **Offsets: W1 3570 μm , CLIMB-B1 -0.40 mm, CLIMB-B2 -0.40 mm**
11.46 Recording HD89962 [HD89962W2W1.2015.12.03.11.39](#), 30 blocks, clear fringes, seeing \approx 7 – 8 cm, a few thin clouds, **W1 offset 3190 μm** , stable CLIMB fringes, S/N \approx 7.
12.03 Recording Cal1 HD90994 [HD89962CAL1W2W1.2015.12.03.11.58](#), 20 blocks, clear fringes, S/N \approx 24, **W1 offset 3150 μm**
12.21 Recording HD89962 [HD89962W2W1.2015.12.03.12.10](#), 40 blocks, fringe peak visible, seeing \approx 6 – 7 cm, **Offsets: W1 2820 μm , CLIMB-B1 -0.39 mm**, S/N \approx 4.
12.43 Recording Cal1 HD90994 [HD89962CAL1W2W1.2015.12.03.12.38](#), 20 blocks, clear fringes, **Offsets: W1 2660 μm , CLIMB-B1 -0.37 mm**
12.56 Recording HD89962 [HD89962W2W1.2015.12.03.12.50](#), 40 blocks, fringes not visible, seeing \approx 5 cm, **Offsets: W1 2400 μm** , S/N 2.3.
13.17 Recording Cal1 HD90994 [HD89962CAL1W2W1.2015.12.03.13.12](#), 20 blocks, clear fringes, **Offsets: W1 2310 μm**
13.30 Recording HD89962 [HD89962W2W1.2015.12.03.13.25](#), 40 blocks, fringes not visible, seeing \approx 5 – 6 cm, some thin clouds, **Offsets: W1 2160 μm** , S/N \approx 2.
Spec Spectral calibration [D.R2700.2015.12.03.14.15](#).

End of the observation:

14.11 Daylight (and clouds). Closing down.
14.21 Spectral calibration:
[D.R2656.2015.12.03.14.21](#)
[D.R2700.2015.12.03.14.15](#)
14.27 Finished run.

Time is in UT+00.00, red.. science target, blue.. calibrator, green.. spectral calibration, gold.. additional information.