

Observational log CHARA/VEGA 2015-12-04

Observers: Frédéric, Ulrike, and Nic
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.
Sky is clear. Seeing is not good (≈ 5 cm or less)

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

01.30 Baseline S2S1 (reference S1).
Pointing to HD191610 and aligning VEGA.
01.50 Technical issue with W1 on B3 (which is needed to align NIRO).
02.21 Problem fixed.
02.41 Technical issue with NIRO. Nic and Judit are working on it. Transparency is very poor.
03.05 Pointing to check star HD213998 for aligning.
03.26 Fringes found for HD213998 at **S2 offset $-625 \mu\text{m}$** .
03.28 Pointing to science target HD212076 (brightest one, mainly for quality control).
03.35 Recording HD212076 **HD212076S1S2.2015.12.04.03.11**, 40 blocks, weak fringe peak visible, CLIMB fringes weak and unstable, clouds, seeing ≈ 6 cm, **Offsets: S2 $-1010 \mu\text{m}$, CLIMB-B1 -0.61 mm, CLIMB-B2 -0.37 mm**, S/N = 4.4
Spec Spectral calibration **D_R2656.2015.12.04.11.09**.

Programme: V67 (Red giants), PIs: D. Huber / O. Creevey

03.56 Baseline W2W1 (reference W2).
04.02 Aligning on science target HD26162. **W1 offset $3680 \mu\text{m}$**
04.06 Cloudy. Stand by ...
04.26 Almost clear. Reopening.
04.30 Pointing to HD26162. Fringes found on CLIMB, but not evident on VEGA.
04.56 Pointing to Cal1 HD26793. Sky is clear.
05.13 Recording Cal1 HD26793 **HD26162CAL1W2W1.2015.12.04.04.55**, 40 blocks, fringe peak uncertain, CLIMB fringes unstable, better for last 20 blocks, seeing ≈ 4 cm, **Offsets: W1 $3490 \mu\text{m}$, CLIMB-B1 -0.40 mm, CLIMB-B2 -0.40 mm**, S/N = 3.1
05.38 Recording HD26162 **HD26162W2W1.2015.12.04.05.30**, 40 blocks, fringe peak not visible, seeing $\approx 5 - 6$ cm, **W1 offset $3030 \mu\text{m}$**
06.09 Recording Cal1 HD26793 **HD26162CAL1W2W1.2015.12.04.05.55**, 40 blocks, fringe peak visible, seeing ≈ 5 cm, **Offsets: W1 $2790 \mu\text{m}$, CLIMB-B1 -0.38 mm, CLIMB-B2 -0.38 mm**, S/N = 3.2
06.31 Recording HD26162 **HD26162W2W1.2015.12.04.06.25**, 40 blocks, fringe peak not visible, seeing ≈ 5 cm, **W1 offset $2520 \mu\text{m}$**

07.10 Recording Cal1 HD26793 [HD26162CAL1W2W1.2015.12.04.06.47](#), 40 blocks, fringe peak visible (noisy) about 70 μm from the right position, seeing ≈ 5 cm, **Offsets: W1 2180 μm , CLIMB-B1 -0.34 mm, CLIMB-B2 -0.34 mm**, S/N = 1.8, clouds during last 3 blocks.
07.41 Recording HD26162 [HD26162W2W1.2015.12.04.07.28](#), 40 blocks, fringe peak not visible, seeing ≈ 5 cm, clouds in the vicinity, **W1 offset 2080 μm**
07.58 Pointing to Cal1 HD26793. Fringes on CLIMB but not on VEGA.
08.22 Lost delay. Recovering. Realigning.
08.43 Recording Cal1 HD26793 [HD26162CAL1W2W1.2015.12.04.07.58](#), 40 blocks, fringes assumed to be there on VEGA, fringes weak and unstable on CLIMB, seeing ≈ 4 cm, no clouds, **Offsets: W1 1880 μm , CLIMB-B1 -0.41 mm, CLIMB-B2 -0.41 mm**, S/N ≈ 3 , last block is bad (already moving to next target).
09.10 Recording HD26162 [HD26162W2W1.2015.12.04.09.07](#), 40 blocks, fringe peak not visible, seeing $\approx 4 - 5$ cm, **W1 offset 1940 μm**
09.30 Thin clouds appearing. Transparency too low to align. Stand by ...
09.41 Pointing to Cal1 HD26793. Possible fringes found on CLIMB.
09.50 Recording Cal1 HD26793 [HD26162CAL1W2W1.2015.12.04.09.28](#), 20 blocks, seeing ≈ 6 cm, thin clouds, **Offsets: W1 1930 μm** , last few blocks may be bad (because out of delay).
Spec Spectral calibration [D_R2700.2015.12.04.11.02](#).

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

10.00 Baseline W1W2 (reference W2).
10.19 Recording HD37202 [HD37202W1W2.2015.12.04.10.01](#), 40 blocks, fringe peak visible, seeing ≈ 6 cm, observing through clouds, **Offsets: W1 1800 μm , CLIMB-B1 -0.31 mm, CLIMB-B2 -0.31 mm**
Spec Spectral calibration [D_R2656.2015.12.04.11.09](#).

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

10.36 Baseline S2S1 (reference S1).
10.37 Aligning on Cal2 HD88960.
10.58 Cloudy. Stand by ...
11.07 Doing spectral calibrations.
12.10 Opening up again (still thin clouds).
12.31 Recording Cal2 HD88960 [HD85503CAL2S1S2.2015.12.04.12.09](#), 29 blocks, fringes visible but weak, thin clouds, **Offsets: S2 960 μm , CLIMB-B1 -0.56 mm, CLIMB-B2 -0.31 mm**, S/N ≈ 5
13.00 Recording HD85503 [HD85503S1S2.2015.12.04.12.43](#), 30 blocks, fringe peak visible, signal fluctuating a lot, observing through clouds, seeing $\approx 4 - 5$ cm, **S2 offset 1650 μm** , S/N ≈ 4
13.13 Pointing to Cal2 HD88960.
13.23 Cloudy. Standby ...
13.39 Situation is not improving. Twilight approaching. Shutting down.
Spec Spectral calibration [D_R2700.2015.12.04.11.02](#).

End of the observation:

13.40 Finished observing night, run, and year.

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