

Observational log CHARA/VEGA 2015-11-05

Observers: Frédéric, Orlagh, and Nic
Instruments: VEGA & CLIMB(tracking)

Configuration:

Telescope	Beam	PoP
E1	B1	P1
W1	B3	P1
W2	B2	P5
S1	B2	P4
S2	B1	P5

*E2 not available

Beginning of the observation:

01.00 Arrived at the control room. Weather looks good. Humidity decreasing. Seeing average. Night clear.
We stayed on same couple and PoP all night due to conditions.
V45 and V66 can share some observations of HD23630.
Note also that the names of the directories do not correspond to the telescope couples used. All are W1W2 today.

W2-Pop5-B2 W1-Pop1-B3

V01 (Exoplanet hosts), HD 189733, PI: R.Ligi

01.35 Check star: HD 190360 on W2W1.
02:15 Alignment problems with W2.
Laszlo is gone out to the telescope.
02:45 Problem with W2 (quote Nic): *the epoxy on one of the pads that holds the acquisition mirror had broken, so the mirror was not aligned and not well supported. Laszlo was able to shim it back into place temporarily. One of many issues arising from AO install.*
02:50 Changed check star to HR7739 (HD 192685) and aligning. Pupils still similar to other night, couldn't change their positions. Seeing got worse $r_0 < 5$.
03:10 Abandon.

V66 (Be Stars), PI: Meilland

03.20 Problem with cart. Meanwhile we check the target HD 10516. Moving telescope to center star on slit (too low).
03.40 Cart OK. Alignment good but seeing terrible ($r_0=2-4$ cm). Nic proposes to wait 30min-1hr. Searching for fringes anyway. Difficult. Coffee just brewed. Fringes found, but only every few scans. Searching on VEGA. Shall we register?
04.10 Register. [HD10516S1S2.2015.11.05.03.10](#). Note that file names are S1S2 and not W1W2. Seeing ~ 3 cm.
Offset W1: 4060
CLIMB-B1: 7.855 mm, CLIMB-B2: 5.000 mm.
We added 20 blocks. Losing fringes. Data not too good. Sorry Anthony!
04:40 Star HD 23302 ($V=3.7$).
Registering: [HD23302S1S2.2015.11.05.04.51](#). Fringes weak on CLIMB.
We stopped registering at Block 15. Dump data.
Offset W1: 4840
CLIMB-B1: 7.845 mm, CLIMB-B2: 4.99 mm.
05:25 Star HD 23630 ($V=2.8$). W2 reached Az limit, has to stow and re-point.

Offset W1: 4450
CLIMB-B1: 7.815 mm, CLIMB-B2: 4.96 mm.
05:50 Finally recording with nice fringes!! My first decent images of this run.
[HD23630S1S2.2015.11.05.05.24](#)
Spec [D.R2656.2015.11.05.13.47](#)

V45, HD 23630 (Pleiades Be Disk Images), PI: Millour

05:50 Star HD 23630 (V=2.8). [HD23630S1S2.2015.11.05.05.24](#). Use from V66.
06:10 Cal2 HD 23338. [ALCYONECal2W2W1E2.2015.11.05.06.11](#). NOTE that the directory title is 3T but this is only 2T W2W1. Difficulty in finding fringes. Nic had to go to lab and saw that vacuum pump had tripped the breaker about an hour ago! so I guess the vacuum is not a vacuum
07:15 Recording. Added 20 blocks. Block 15 is good!!
Offset W1: 4380
CLIMB-B1: 7.815 mm, CLIMB-B2: 4.96 mm.
07:40 Recording Science HD 23630 [ALCYONEW2W1E2.2015.11.05.07.30](#)
Offset W1: 2540
CLIMB-B1: 7.925 mm, CLIMB-B2: 5.07 mm.
08:00 Recording Science HD 23630 [ALCYONECal2W2W1E2.2015.11.05.07.58](#). Seeing is improving. We are at about 8cm.
Offset W1: 2230, CLIMB-B1: 7.965 mm, CLIMB-B2: 5.11 mm.
Spec [D.R2656.2015.11.05.13.47](#)

V66 (Be Stars), PI: Meiland

08:15 Star HD 4180. Network crashed. Relaunch.
08:55 Star HD 4180. [HD4180S1S2.2015.11.05.08.34](#). Had to move delay -1m so had to re-align! finally recording 08:55. We have about 20 minutes, might just make it before it goes. Not pretty fringes, but seeing deteriorated quickly. Of course we're at 45 degrees.
Offset W1: 2050, CLIMB-B1: 8.295 mm, CLIMB-B2: 5.44 mm.
09:15 Star HD 5394 (bright). 2nd point on this couple. Easy target.
[HD5394S1S2.2015.11.05.09.11](#)
Offset W1: 2540, CLIMB-B1: 8.295 mm, CLIMB-B2: 5.44 mm.
09:40 Star HD 23630 (bright). 2nd point on this couple. Nice fringes. [ALCYONEW2W1E2.2015.11.05.09.38](#) Take off last block. We said "stop" at block 40 and it actually hadn't finished, but Nic was already moving.
Offset W1: 1320, CLIMB-B1: 8.155 mm, CLIMB-B2: 5.30 mm
10:33 Star HD 23630 (bright). [ALCYONEW2W1E2.2015.11.05.10.33](#)
Spec [D.R2656.2015.11.05.13.47](#)

V45 HD 23630 (Pleiades Be Disk Stars), PI: Millour

09:40 Star HD 23630. Nice fringes. Remove block 40. We said "stop" at block 40 and it actually hadn't finished, but Nic was already moving. [ALCYONEW2W1E2.2015.11.05.09.38](#)
Offset W1: 1320, CLIMB-B1: 8.155 mm, CLIMB-B2: 5.30 mm
10:15 Cal2 HD23338. [ALCYONECal2W2W1E2.2015.11.05.10.14](#) 30 blocks.
Offset W1: 1320, CLIMB-B1: 8.195 mm, CLIMB-B2: 5.33
10:33 Star HD 23630 (bright). [ALCYONEW2W1E2.2015.11.05.10.33](#)
Offset W1: 1140, CLIMB-B1: 8.125 mm, CLIMB-B2: 5.39 mm
10:50 Cal2 HD23338. [ALCYONECal2W2W1E2.2015.11.05.10.53](#) 30 blocks. Pics not too peaky
Offset W1: 1140, CLIMB-B1: 8.275 mm, CLIMB-B2: 5.42
Spec [D.R2656.2015.11.05.13.47](#)

V43 HD 43587 (Seismic), PI: Creevey

11:40 Cal1 HD46487. [HD43587Cal1W2W2.2015.11.05.11.35](#). Ca Pic!
Offset W1: 1672, CLIMB-B1: 8.025 mm, CLIMB-B2: 5.17 mm

11:40 HD 43587. [HD43587W2W2.2015.11.05.11.59](#). Ca Pic aussi!
Offset W1: 1460, CLIMB-B1: 8.095 mm, CLIMB-B2: 5.24 mm
Central control *planted* a few times

12:25 Cal1 HD46487.
[HD43587Cal1W2W2.2015.11.05.12.33](#).
Offset W1: 1320, CLIMB-B1: 8.125 mm, CLIMB-B2: 5.27 mm
Network problems. Frozen but came back.

12:50 HD 43587. [HD43587W2W2.2015.11.05.12.51](#).
Offset W1: 1260, CLIMB-B1: 8.185 mm, CLIMB-B2: 5.33 mm

11:40 Cal1 HD46487. [HD43587Cal1W2W2.2015.11.05.13.19](#). Last cal not too good,
Sun coming out.
Offset W1: 1160, CLIMB-B1: 8.215 mm, CLIMB-B2: 5.36 mm

Spec [D.R2700.2015.11.05.13.42](#)

End of the observation:

14.37 Spectral Calibration
[D.R2700.2015.11.05.13.42](#)
[D.R2656.2015.11.05.13.47](#)
Finished run.

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