

## UT 2020-03-04, Norm, Fred, Denis

### V67/Creevey S2B1P5-S1B2P4

- UT1h45: arrival at GI2T, opening everything
- Target1=HD27371, Target2=HD27697, Cal1=HD28355, Cal2=HD29488
- HD27371 for alignment. With the new control system of CHARA we are remotely in totally blind mode. Fringes found by VEGA during NIRO alignment. Telescope TT and AO on. New beacon alignment.
- Full AO with blue beacon, labao servo and auto zwo for tracking.
- [HD27371.2020.03.04.02.51](#). r0 around 7cm. S2=+2240, BC1=7.92, BC2=4.91. Offset +150 $\mu$ m. Piston is reasonable, fringes are nice on VEGA. For blocks 7 to 9 we lost S1.
- UT02h57: Switch to cal1. New NIRO alignment necessary. Almost 25mn of delay as stars were lost regularly during the alignment process. [HD28355.2020.03.04.03.22](#). S2=+2260. R0 around 8cm. Fringes ok on VEGA, jumping quite a lot on CLIMB.
- UT3:31: Target2. S2WFS died. S2=+2280. [HD27697.2020.03.04.03.47](#). TT reports poor r0 now (2-3cm) but fringes ok on VEGA (strange) and rapid jumps on CLIMB.
- UT3h56: cal2. Alignment of the AOs is still longer than usual but a little bit faster now. New NIRO alignment also necessary. Finally, [HD29488.2020.03.04.04.08](#). S2=+2250, r0 reported as 2cm (around 4 to 5 according to W2), transient fringes on CLIMB, integration ok on VEGA.
- UT4h17: Done, ready for Target1=HD27371. [HD27371.2020.03.04.04.22](#). S2=2180. High jumps on CLIMB.
- UT4h:31 Done, ready for Cal1=HD28355. [HD28355.2020.03.04.04.35](#). S2=+2140. It is necessary to realign the beacons at each slew, as they are still drifting with temp.
- UT04h44 Done, target2. [HD27697.2020.03.04.04.49](#). S2=+2120. r0 reported as very low but fringes ok on VEGA and fringes more stable on CLIMB.
- UT4h58 Target1 immediately as we may be short if we go first to the cal. S2=+2000. Efficiency of the observation is now much more improved. [HD27371.2020.03.04.05.02](#). Fringes are more stable on CLIMB, good integration on VEGA.
- UT5h11 Cal2. S2=2050. Nice fringes on VEGA, fringes a little bit fainter on CLIMB (maybe NIRO alignment). [HD29488.2020.03.04.05.15](#).
- [D\\_CM720.2020.03.04.05.28](#). Neutral Filter of the collimator was not correctly initialized, it was necessary to put it on ND1 position to get the correct flux on the detector whereas on OPEN position no flux of the spectral lamp was seen.

### V72/Klement E1B1P1-E2B2P2

- UT5h24 we start the new program on bet CMi. Target= HD58715, Cal1=HD58923, Cal2=HD58187.
- Strong difficulties with the DMs so LABTT only... Many server crashes and reboots. More than 1 hour needed.
- UT6h28 we can start recording fringes on the target directly for 40 blocks. Nice waterfall on CLIMB. Nice fringes on VEGA. E1=+2050, BC1=6.09, BC2=4.91. [HD58715.2020.03.04.06.28](#). r0 around 8cm apparently.
- UT6h45 ready to go to cal1. E1=+2030, [HD58923.2020.03.04.06.50](#). r0 around 8cm, LABAO-TT only. CLIMB tracking not really nice (faint fringes). Peak ok on VEGA but with some extensions.

- UT06h59 back to target. E1=+1990. Nice tracking on CLIMB, good fringes on VEGA. [HD58715.2020.03.04.07.02](#). 40 blocks
- UT7h19 cal2 now. Many OPLE/CLIMB comm issues. Difficulties for the fringes. We restart OPLE. No fringes. Metrology is fine. So we finally decide to go back to cal1. Well the issue was with the LDC which was not restarted after the new OPLE start. E1=+2100 [HD58923.2020.03.04.08.00](#). r0 around 8cm
- UT8h09 target. [HD58715.2020.03.04.08.11](#). E1=+2080. 40 blocks. Nice sequence.
- UT8h28: cal2 finally to close the sequence. [HD58187.2020.03.04.08.31](#). E1=+2030. Correct fringes on CLIMB, nice peak on VEGA. r0 in progress to 10cm (as reported).
- [D\\_CM656.2020.03.04.08.42](#)

### **V38/Salsi E1B1P1-E2B2P2-W2B3P5**

- check=HD107259, target=HD114330, cal1=HD112846, cal2=HD116831
- UT8h45: locked on check. LABTT and FLAT on TelDM. Computers in telescopes need to be rebooted for solving the cameralink issues. So no way to use the full AO on E1E2 and no DM in W2 for the moment. E1=510 E2=-2180, BC1=6.56, BC2=5.31. LabTT reports r0=10cm.
- UT9h06, slew to cal1. HD112846. Weird issue with the LDC (LDC W2 reported a wrong value). So back to check and then again on cal1. E1=590, E2=-2160, BC1=6.46, BC2=5.30. LabTT reports r0=10cm. [HD112846.2020.03.04.09.26](#). Nice fringes on CLIMB, fringes ok on VEGA.
- UT9h35: ready for target. E1=450, E2=-2270. [HD114330.2020.03.04.09.38](#). Nice fringes everywhere. LabTT reports r0 above 10cm now. Third peak seen on VEGA.
- UH9h47. Cal2 [HD116831.2020.03.04.09.49](#). E1=520, E2=-2180. Again good fringes and r0 reported as 10cm.
- UT9h58 final try on the target. [HD114330.2020.03.04.10.00](#). Nice fringes. E1=320, E2=-2310. Only 8 blocks correctly recorded because of delay.
- Ut9h05 closing on cal2. [HD116831.2020.03.04.10.07](#). E1=440, E2=-2180.
- [D\\_CM720.2020.03.04.10.17](#)
- check=HD147394 (but out of delay at start), target=HD145389, cal1=HD140728, cal2=HD143584,
- UT10h15 we start with the check for AO settings. But difficulty with azimuth position for E1. So we go to the target, finally on cal1. Finally locked on cal1. E1=990, E2=-1250. BC1=6.36, BC2=5.25. [HD140728.2020.03.04.10.57](#). r0 around 12 cm as reported. Nice fringes.
- UT11h06 target. E1=980, E2=-1360. [HD145389.2020.03.04.11.09](#). Nice fringes and good r0.
- UT11h18 cal2. [HD143584.2020.03.04.11.20](#). r0 always nice, even larger than 12cm. E1=1010, E2=-1250. Nice fringes on CLIMB but not very nice on VEGA.
- UT11h29, target again. E1=1060 $\mu$ m and E2=-1270 $\mu$ m. [HD145389.2020.03.04.11.32](#). Nice sequence for a P2-100PI ...
- UT11h40, cal1. E1=1040 $\mu$ m and E2=-1150 $\mu$ m. [HD140728.2020.03.04.11.44](#). r0=12cm and these fringes are better than on cal2 (which is a IV star versus a V for cal1).
- UT11h53, target. E1=1200 $\mu$ m and E2=-1000 $\mu$ m. [HD145389.2020.03.04.11.56](#). Nice fringes well tracked, r0 closer to 10cm now.
- UT12h05, cal1. E1=1070 $\mu$ m and E2=-1110 $\mu$ m. [HD140728.2020.03.04.12.08](#). r0=11cm, good fringes on CLIMB and VEGA. Good sequence.
- target=HD152107, cal1=HD149303, cal2=HD155860
- UT12h17 cal1 as first star and for alignment. [HD149303.2020.03.04.12.28](#), E1=1170, E2=-1200.

- UT12h37 target. [HD152107.2020.03.04.12.39](#). E1=1190, E2=-1180. Nice fringes, r0 around 10cm.
- UT12h48 cal2. OPLE Crash. [HD155860.2020.03.04.12.59](#), E1=1050, E2=-1230. R0 again at 12cm, as reported by LABTT. Nice sequence.
- UT13h08 target again. [HD152107.2020.03.04.13.11](#). E1=1200, E2=-1110.
- UT13h20 cal1 again. [HD149303.2020.03.04.13.23](#), E1=1290, E2=-1040. Nice climb fringes.
- UT13h32 target again. [HD152107.2020.03.04.13.35](#). E1=1310, E2=-1020. Nice fringes again, r0 around 10cm.
- UT13h45 cal2 for finishing this program. [HD155860.2020.03.04.13.47](#), E1=1180, E2=-1050. Everything fine on the fringes for CLIMB and VEGA.