

Log CHARA/VEGA 2016-07-30

Observateurs : Fred, Orlagh, & Olli sur la montagne

UT 3h00 Start VEGA and coffee machine

UT 3h20 Problem SockMan, Restart, OK

Several central control crash during the night

Night Summary

V16 HD 112185 1pt T-C (65 + 40 blocs)

V52 HD 187929 4pts C2-T-C1-T-C2-T-C1-T-C2 (All 20 blocs)

V50 HD 221170 1.5pts C3-T-C1-T (20+30+20+20 blocs, dernier point : ()

V67 HD 185657 2pts C2-T-C2-T (20+20+20+30 blocs)

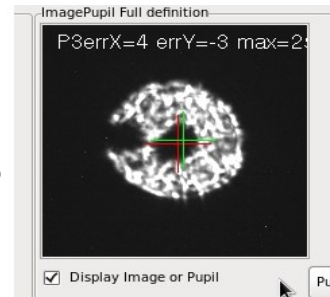
end night summary

Configuration W2B2P2 - W1B3P5

V16 (roAp Karine) HR

UT 3h30 Cophase with HD112185.

UT 3h40 Problem with pupils. Looks like something in the way. Trying to find out. On W2 its cover, so Olli moved it and this helps. For W1, we don't know. See figure at right. Still don't know. We have to observe, no choice.



UT 4h20 Aligning, fringes on target.

Beautiful fringes with CLIMB, now searching for them with VEGA. Didn't find them. Passing directly to CAL. Found fringes on MR. Niro crashed ~ 4h40.

UT 5h20 Observe science. Can't find fringes in MR. After discussing with Karine, we just moved one way 500 mu and we record blindly. [HD112185W2W1.2016.07.30.05.16.](#) offsets W1: 2140 mu CLIMB B1: 0.26 mm B2: 0.23 mm. 65 blocs. r0~8cm. Position peak at 770mu. With the calibrator we saw that they peaks are inversed... attention avec le traitement.

UT 6h00 Cal HD109387 to find where pic is. [HD112185Cal1W2W1.2016.07.30.05.57.](#)

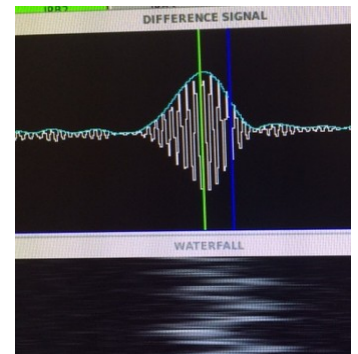
Fringes low contrast and "intermittant". This star has theta~0.6 I think. r0~6cm. 40 blocs.

UT 6h20 [D_R1531.2016.07.30.06.22](#)

Configuration S2B2P5 – S1B1P4

V52 (Nicolas) Cepheids

- UT 6h30** Perfectly cophased with Science. Cal2 HD 181440. 20 blocs. r0~8.0cm
HD187929Cal2S2S1.2016.07.30.06.31. Offset S1: -50, CLIMB-B1: -0.14, B2: -0.30.
- UT 7h10** Target. **HD187929S2S1.2016.07.30.07.12** 20 blocs. oS1: -25. SNR 60@Bloc 10.
r0~10cm
- UT 7h25** Cal1 HD 186689. **HD187929Cal1S2S1.2016.07.30.07.24** 20 blocs. oS1: -100
- UT 7h36** Target. **HD187929S2S1.2016.07.30.07.36** 20 blocs. offsets S1: -55, r0~8cm.
Belles fringes.
- UT 7h47** Cal2 HD 181440 **HD187929Cal2S2S1.2016.07.30.07.47**. 20 blocs. oS1: +150.
Fringes looking a bit weak but SNR 60.
- UT 7h59** Target. **HD187929S2S1.2016.07.30.07.59** 20 blocs. OS1: +50.
- UT 8h10** Cal1 HD 186689. **HD187929Cal1S2S1.2016.07.30.08.11**
20 blocs. oS1: +20
- UT 8h20** Target. **HD187929S2S1.2016.07.30.08.22** 20 blocs.
OS1: +100. SNR~50.
- UT 8h30** Cal2 HD 181440 **HD187929Cal2S2S1.2016.07.30.08.34**.
20 blocs. oS1: +420. Difficulties finding fringes.
Also had to realign Niro.



D_R2700.2016.07.30.09.03

Configuration W2B2P5 – E2B1P2

V50 (PI=Creevey): target=HD221170, cal1=HD220933, cal2=HD221394, cal3=HD221970 (NIRO=check=HD192514)

V50 (Orlagh) Metal-poor

- UT 9h10** Check star HD192514. Too far. Aligned with it, but then went to Cal3 for cophasing and had to align again. Pupils OK, but W1 giving problems for aligning
- UT 9h30** Cal3 HD221970. **HD221170Cal3E2W2.2016.07.30.09.28** 20 blocs. oE2:+1020
cB1:0.39 cB2:-0.21. SNR~18
- UT 10h10** Target HD221170 (V=7.6). **HD221170Cal3E2W2.2016.07.30.10.08** 30 blocs.
oE2:+820
"on fait Cal-1 et apres Olli" :))
- UT 10h25** Cal1 HD220933. **HD221170Cal1E2W2.2016.07.30.10.27** 20 blocs. OE2:+560
not great. R0 getting worse. ~3.0cm
- UT 10:50** Target. Near transit **HD221170Cal3E2W2.2016.07.30.10.44** Don't see fringes on
Vega at all, and on climb not too good either. Problems keeping W2 in position. Did
20 blocs. But abandon now.
- D_R2700.2016.07.30.12.16

Configuration W2B2P5 – E2B1P2

V67 (PI=Huber): target=HD185657, cal2=HD184875

V67 (Huber) K2 giants

UT 11h00 Cal2 HD 184875. Have to cophase a bit still. offset E2:-1180 cB1 0.47 cB2 -0.21
HD185657Cal2W2E2.2016.07.30.11.04. SNR6.5

UT 11h30 Target HD185657 **HD185657W2E2.2016.07.30.11.34.** No problems finding fringes. OE2:-1040

UT 11h50 Cal2 HD 184875. **HD185657Cal2W2E2.2016.07.30.11.47** SNR~6. OE2: -1400

UT 12h00 Target HD185657 **HD185657W2E2.2016.07.30.11.59.** OE2:-1060. "ce n'est pas asi mal" ..fred.... 30 blocs to finish the night.

D_R2700.2016.07.30.12.16

fin