

Log CHARA/VEGA 2016-09-20

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UT02:15: some clouds all around the sky but we start.

Test for Alignment procedure

Test of new alignment procedure with M6 and PERI instead of M10 and Tip/Tilt

UT02:20: slew to Deneb

- Pupil B1 is correctly centered with PERIB1 (step 57) and DOWN for translation to the left and LEFT for translation up.
- Flux B1 is correctly centered on the SLIT with M6 mirror V1 (step 160). Flux in the slit through X motion and vertical motion along the slit with Y- to go up and Y+ to go down.
- By the way, aligning VEGA could be done simultaneously during the NIRO and CLIMB alignment.

V58 program on E1P4B1-W1P4B2-S2P2B3-S1P1B4

CLIMB for 123 and VEGA for 34

For this particular behavior, the observer should first configure CosmicDebris with the 123 telescopes and start the sequence. When the CLIMB windows are opened it is then possible to add the telescope on beam4 in the CD configuration panel and then click on TRACK and on MAN to authorize the VEGA control.

UT03:10: slew to check star kappa Cep. HD 192907

UT03:30: clouds, photometry very low.

UT06:10: back on sky. Slew to HD3360. E1=-4250, B1=+0.15; W1=-4400, B2=-0.56. S1=-1.3 avec VEGA. **GAMCASA2CAL4.2016.09.20.06.25**. 4T recording with CLIMB on E1W1S2 and S2S1 with VEGA but without automatic tracking.

UT07:25: we go on the target gam Cas. But clouds. At 8:10 we start recording for 40 blocks. **GCASA2.2016.09.20.07.26**. Fringes are ok on S1S2 but the others are hard to see. Maybe baselines are too long.

UT08:30: back to calibrator but again clouds. E1 -4050, W1 -4300, S1 -700. Large absorption and thus weak signal. **GCASA2CAL4.2016.09.20.08.34**, started at 9:15 for 30 blocks.

V58 program on W1P4B2-S2P2B3

With respect to the conditions and to the low visibility level we decide to try S2W1 in 2T mode only.

UT09:30: HD3360. **GAMCASA2CAL4.2016.09.20.09.28**. Nice fringes on the calibrator despite the strong photometric fluctuations. Start recording at 9:40. Stars lost at block 5...End at block 25, stars still missing.

UT09:55: HD3360 again but clouds still present. Start recording at 9:58.

GAMCASA2CAL4.2016.09.20.09.54. but stars lost again at block 4. Stop after 20 blocks of dark!

UT10h55: **GAMCASA2CAL4.2016.09.20.10.50**. HD3360 again. Photometry is fluctuating but not so much. Piston is not very good. R0 around 6-7 cm. Fringe ok on VEGA.

UT11:04: gam Cas. **GAMCASA2.2016.09.20.11.04**. Flux is again low. Argh... We start recording with nice CLIMB fringes and fringes are seen on VEGA 2T. but flux is continuously fluctuating. Much better after block 10.

D_R2770.2016.09.20.11.30

