

Observers: Simon, Frantz

Configuration: E2/V2/POP2 E1/V1/POP1 + CLIMB

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Initial setup - alignment of VEGA  
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UTC03:51: finished the alignment procedure (used the first target: HD 177724). Small tweaks to yesterday's configuration.

UTC03:53: Chris reports a problem with niro cam. Needs time to check.

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Program: V64 HD 177724 (A. Meilland)  
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UTC03:59: Chris solved the problem. Got the fringes on CLIMB. Also have fringes in the right place on VEGA. For cophasing, took the values previously used for this config: B1: -0.8, B2: -0.1

UTC04:01: HD 177724E2E1.2014.08.23.03.27 (HD 177724) 90 blocks. Good looking fringes on CLIMB with stable piston. Strong signal on VEGA as well. No seeing plot, but values for beam 1 hover at ~ 8 cm.

UTC04:41: D\_R1656.2014.08.23.04.42 Spectral calibration.

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Program: V62 HD 209409 (P. Stee)  
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Configuration: E2/V2/POP2 S2/V1/POP5 + W2/V3/POP5 + CLIMB

UTC04:56: On the check star (HD 213998) but can't use delay line on this yet (star not "quite" observable with CLIMB yet).

UTC05:11: The star is now observable. Getting fringes on CLIMB.

UTC05:25: Chris had trouble moving the carts on the delay lines, and still doesn't quite know why. Decided to go ahead and change check star: HD 212061, at a more favorable position.

UTC05:53: Spent quite a bit of time finding the fringes on VEGA. The S2-E2 baseline was quite problematic. B1: -0.6, B2; -0.17  
Can now move the the calibrator: HD 210419.

UTC06:05: HD209409CAL1E2S2W2.2014.08.23.05.27 (calibrator HD 210419) 20 blocks. Fringes are hard to see in the VEGA FT. E2W2 fringes come out rather easily. E2S2 fringes are barely visible.

UTC06:15: HD209409E2S2W2.2014.08.23.06.15 (science target HD 209409) 20 blocks. Fringe signal on VEGA comes out rather nice.

UTC06:33: HD209409CAL1E2S2W2.2014.08.23.06.29 (calibrator HD 210419) 20 blocks.

UTC06:47: HD209409E2S2W2.2014.08.23.06.42 (science target HD 209409) 20 blocks.

UTC07:04: HD209409CAL1E2S2W2.2014.08.23.06.59 (calibrator HD 210419) 20 blocks.

UTC07:15: D\_R2656.2014.08.23.07.13 Spectral calibration.

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Program: V57 HD (O. Chesneau)  
targets: HD 224014 & HD 217476  
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Configuration: E1/V1/POP1 E2/V2/POP2 + W2/V3/POP5 + CLIMB

UTC07:23: The cal (HD 3360) is still rising. It's been acquired by the three telescopes but several more minutes are required before the delay lines can catch it. This star is quite bright, and should make a good calibrator. We're waiting for it.

UTC07:45: HD224014CAL1.2014.08.23.07.21 (calibrator HD 3360)  
20 blocks. Very nice fringe signal on VEGA.  
B1: -0.4, B2: -0.1 (same as yesterday for this config)

UTC08:02: HD224014.2014.08.23.07.55 (science target HD 224014)  
20 blocks. Took a little bit longer to get the fringes with CLIMB.  
On the VEGA FT, E2-E1 comes out loud and clear.  
but E2-W2 not so much. Resolved?

UTC08:13: HD224014CAL1.2014.08.23.08.15 (calibrator HD 3360)  
20 blocks. Very nice fringe signal again on VEGA.

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UTC08:33: HD217476CAL1.2014.08.23.08.27 (calibrator HD 209419 for HD221747)  
20 blocks.  
E2-E1 signal loud and clear! E2-W2 not so obvious...  
Is this a good cal? Maybe resolved?

UTC08:42: HD217476.2014.08.23.08.43 (science target HD 217476)  
20 blocks.  
Looks like the fringes on CLIMB are lost?  
Starting from block 6, the E2-W2 are back on CLIMB  
Added an extra 10 blocks to compensate for the loss.

UTC09:02: Started doing a spectral calibration before realizing that we are missing a last visit to the calibrator.  
Aborted, and suppressed.

UTC09:07: HD217476CAL1.2014.08.23.09.03 (calibrator HD 209419 for HD221747)

UTC09:18: Now we can proceed and actually do the spectral calibration.  
D\_R2700.2014.08.23.09.17 Spectral calibration.  
Need to edit the logobs to correct our earlier mistake.

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Program: V60 HD (N. Nardetto)  
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Configuration: E1/V1/POP1 E2/V2/POP2 + W2/V3/POP5 + CLIMB

UTC09:30: HD6976CAL2E2E1W2.2014.08.23.09.25 (cal. HD 12573 for HD 6976)  
30 blocks.  
E2-W2 fringe signal looks clear.  
E2-E1 corrected the position of the fringe peak, bringing it closer to the central spike). New OPD values are  
B1: -0.35, B2: -0.1 Third fringe peak becomes visible as well.

UTC09:54: HD6976E2E1W2.2014.08.23.09.50 (science target HD 6976)  
30 blocks.

UTC10:14: HD6976CAL2E2E1W2.2014.08.23.10.09 (cal. HD 12573 for HD 6976)  
30 blocks.  
Fringe signal looks good.

UTC10:30: Frozen GUIs. Had to kill windows, kill associated processes

and restart them (opletab, telescopegtk, tiptiltgtk).

UTC10:45: All is back to normal.

We've even recovered our display of the seeing!

UTC10:45: HD22798CAL1E2E1W2.2014.08.23.10.29 (cal. HD 23363 for HD 22798)  
30 blocks. Seeing:  $r_0 \sim 10$  cm.  
Fringe signal looks good on the E2-W2 and E2-E1 baselines.

UTC11:04: HD22798E2E1W2.2014.08.23.11.01 (science target HD 22798)  
30 blocks. Seeing more or less the same.  
Fringe signal on E2-E1 looks good.

UTC11:19: HD22798CAL1E2E1W2.2014.08.23.11.19 (cal. HD 23363 for HD 22798)  
30 blocks. Seeing overall looks better than the two previous  
nights.

UTC11:36: HD23526E2E1W2.2014.08.23.11.38 (science target HD 23526)  
30 blocks. Note: Frozen display of the CLIMB fringes, but  
the signal is present in the VEGA FT, and Chris says CLIMB  
is tracking all right, so we carry on...  
In order to try and squeeze another calibrator toward the  
very end of the night, we changed from 30 to 20 blocks.

UTC11:55: HD23526CAL1E2E1W2.2014.08.23.11.53 (cal. HD 23363 for HD 23526)  
20 blocks (cf earlier comments)

UTC12:08: HD23526E2E1W2.2014.08.23.12.05 (science target HD 23526)  
20 blocks (cf earlier comments)  
Note: All of the non-VEGA gtk GUIs freeze more or less  
completely... because we don't have much time left, we don't  
really try to fix anything.

UTC12:22: Final sprint before the finish line!  
HD23526CAL1E2E1W2.2014.08.23.12.20 (cal. HD 23363 for HD 23526)  
20 blocks (cf earlier comments)

UTC12:33: Spectral calibration  
D\_R2700.2014.08.23.12.33 Spectral calibration.

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End of the observing for today.  
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