Nuit du 2012.10.27
Observateurs : Narges, Isabelle, Denis
& Chris

CONFIGURATION : E2 E1 W2 + POP2 POP 1 POP 5
Cophasing on HD214680, small corrections of cophasing. R0 around 8cm
Vega-Offsets : E1=-950, W2=-1180
Climb_Mirrors : B1=0.35, B2=-0.30

V49 OU And HD223460

UT02 :35 Start recording on CLIMB. HD214680, Cal3 of HD223460. **HD223460CAL3E2E1W2.2012.10.27.02.00** : 3 nice fringes on VEGA, CLIMB OK

UT03:05 Start recording on CLIMB. HD223460, target.
HD223460E2E1W2.2012.10.27.03.00 : Climb frequency has been changed because of brightness difference between the target and the cal and so the CLIMB data will be certainly badly calibrated. The maximum difference of magnitude between Target and Calibrator should be around 0.5mag max.
NIRO crashed in Block=14
It's normal in Block=24…We added 10 Block…Now we have 50 Block..
Fringes of target are not stable.
NIRO crashed in Black=49…Still we have photons.
We don't need to record CLIMB data in these two observation.
r0 is around 5cm.

UT03 :35 Start recording on CLIMB. HD214680, Cal3 of HD223460.
HD223460CAL3E2E1W2.2012.10.27.03.32 : fringes almost correctly track on CLIMB. But it was better in the first sequence. We rappidly saw fringes which is E1E2. E2W2 is coming but is so faint. We are in Block 10. E1W2 is coming but is so faint. So we have 3 fringes on VEGA right now. The fringes in CLIMB are quit good.
R0 is 5cm right now.

- **The file of calibration : D_R2720.2012.10.27.03.55**

V01 EXPN HD1367

UT04 : 10 Start recording on CLIMB. HD7804, Cal2 of HD1367.
HD1367CAL2E2E1W2.2012.10.27.04.02 : r0 is around 6cm. The fringes are not stable yet. We have really nice fringes on CLIMB since r0 is 5cm. E1E2 fringes on VEGA are coming but so faint. We expected to see better fringes since we have short baseline. E2W2 fringes are coming. We can see E1W2 fringes but not so clear. We still have vey nice fringes on CLIMB.

UT04 : 45 Start recording on CLIMB. HD1367 target.
HD1367E2E1W2.2012.10.27.04.37 : So faint fringes on VEGA in E1E2. The fringes on CLIMB are not so nice and stable. r0 is less than 5cm and around 4cm.

CLIMB fringes are getting more stable and nice.r0 incresed till 5cm. We stoped observation on this target since we couldn't see fringes in VEGA clearly.

UT05 : 24 Start recording on CLIMB. HD12573, Cal3 of HD1367.
HD1367CAL3E2E1W2.2012.10.27.05.18 : For this calibrator, we have good fringes in CLIMB. We can see fringes in E1E2 in VEGA but so faint. r0 is around 5cm right now. The second fringes are coming not so clear. So there were 2 faint fringes on VEGA.

- **The file of calibration : D_R2720.2012.10.27.05.49**

CONFIGURATION : S1 S2 W2 + POP4 POP 4 POP 5
Cophasing on HD6186.
UT06 : 50 This HD6186 is a check star. By the way, Chris has a problem with pointing S1. So he said he needs 20 minutes time to point it. r0 is 6cm right now.
The fringes on CLMIB are clearly seen. Starting cophasing. We are changing OPD to find fringes on VEGA. We found S1S2 fringes, but no success on S2W2. So we will continue just with S1S2.

V27 EPS aur HD31964 S1S2
UT07 : 55 Starting recording on VEGA, HD31964
HD31964S2S1.2010.10.27.07.31 : We are in high specreal resolution, but there are no good fringes on VEGA, since r0 is around 6cm at this moment.
We are still recording but quality is not really good and it seems that we have some absorption with clouds as well. It can be seen some changing on photometry which is not good anymore. The fringes are coming on VEGA but quit faint. Recording was finished.

- **The file of colibration : D_R1656.2012.10.27.08.13**

V47 ksi tau HD21364 S1S2
UT08 : 30 Starting recording on CLIMB, HD21686, Cal1 of HD21364.
HD21364Cal1S2S1 2012.10.27.08.21 : fringes almost correctly track on CLIMB. Starting recording on VEGA. Fringes on CLIMB are not stable. In Waterful window, we can see fringes are not in the center cause of changings of OPD.
S1S2 fringes is coming on VEGA but with Block=14 and not so clear.

UT08 : 48 Starting recording on CLIMB, HD21364 target.
HD21364S2S1.2012.10.27.08.44 :
Fringes correctly track on CLIMB. As soon as recording on VEGA, we could see S2S1 fringes on VEGA. Now we can see that fringes on CLIMB are not stable and we have quit big change in fringes which cause by changings of OPD. It's just because r0 is so in the limt, around 5 cm.The position of the pick is around 300 mircon instead of 100 micron.

UT09 : 05 Starting recording on CLIMB, HD21686, Cal1 of HD21364.
HD21364Cal1S2S1 2012.10.27.09.01 : fringes on CLIMB are better than last observation on Cal. Startcontrol window crashed, so we need to stop manually track and cancel Ht. Fringes on VEGA are clearly seen.

- **The file of colibration : D_R2720.2010.10.27.09.18**

UT09 : 25 New try for cophasing o S2W2, We use ksi tau as check star
Fringes on CLIMB are clearly seen. Strating cophasing and changing OPD to find fringes.
We couldn't succeed to see fringes on VEGA. r0 is around 5cm.
So it is definitely not possible to cophase on S2W2 to-night : if only we integrate after 6-7mn of integration, we could see faint fringes on S2W2 and the peak but Off set is not correct one but there is no way to go to S2W2 so we keep on 2T.

V27 EPS aur HD31964 S1S2
UT10 : 10 Starting recording on VEGA, HD31964
HD31964S2S1.2010.10. 27.10.00:
No photons on the first two Blocks(periscope was up). We will put two Blocks more. It means that we will have 62 Blocks not 60. We have really nice fringes on CLIMB. But it's so difficult to see fringes on VEGA. We can see fringes on VEGA.

V47 ksi tau HD21364 S1S2
UT10 : 50 Starting recording on CLIMB, HD21686, Cal1 of HD21364.
HD21364Cal1S2S1 2012.10.27.10.40 : fringes on CLIMB are quit nice. We are starting recording on VEGA. There are pretty good fringes on VEGA.

UT11 : 05 Starting recording on CLIMB, HD21364 target.
HD21364S2S1.2012.10.27.11.04 : We could find nice fringes on CLIMB, so we have less pistons. r0 is close to 10 cm. Very rapidly we could see S1S2 fringes and these fringes are so clear. Actually, the quality is increasing, better r0 and less piston.

UT11 : 15 Starting recording on CLIMB, HD21686, Cal1 of HD21364.
HD21364Cal1S2S1 2012.10.27.11.22 : fringes on CLIMB are perfect. We are starting recording on VEGA.
UT11 : 23 We are begining recording on VEGA. r0 is 10 cm.

- **The file of colibration : D_R2720.2010.10.27.11.42**

V27 EPS aur HD31964 S1S2
UT11: 53 Starting recording on VEGA, HD31964

HD31964S2S1.2010.10.27.11.49: We can see fringes on CLIMB very well. We have started recording on VEGA, we could see the fringes on VEGA very well.

UT09 : 25 New try for cophasing on S2W2, We use HD62345 as check star
r0 is around 10cm. Fringes on CLIMB were found perfectly.