Night 28/07/2012
Observers: Isabelle, Narges& Chris
(CHARA)

CONFIGURATION: E2 E1 + POP2 POP 1
r0 is around 11cm

Vega-Offsets: E1=-950, W2=-1180
Climb_Mirrors: B1=0.35, B2=-0.30

V52 Del Cep HD213306
UT02:10 Start recording on VEGA. HD213306, Cal1 of HD223460.
HD213306CAL1E2E1.2012.10.28.01.46:
Fringes on CLIMB clearly are seen. We get fringes perfectly but we have to shift the fringes on VEGA from right to left. OPD wasn't in the good position. Now fringes are in the good position: Climb_B1=-0.35 offset E1=-0.87

Erreur: pas pris la bonne starlist (R2). On finit cette acqui en arrêtant à 14 blks et on entre la bonne: en R1656

UT02:10 Start recording on VEGA. HD223460.target.
HD213306E2E1.2012.10.28.02.29:
r0 is around 12cm right now. Fringes are very stable and well centered on CLIMB. We record without seeing the peak on VEGA and hoping it would be in the good position. Peak is visible around blk=10, perhaps to near from y- axis but we can't adjust on better position. SNR is around 5.5 at blk=44.
For nicolas: some r0-points are close to 20cm. ☺
We have still very stable and nice fringes. r0 is 11cm at this moment.

- **D_R1656.2010.10.28.03.28**

CONFIGURATION: E2 E1 W2 + POP2 POP 1 POP 5

V01 EXPN HD1367
UT02:10 Start recording on CLIMB. HD7804, Cal2 of HD1367.
HD1367CAL2E2E1W2.2012.10.28.03.33:
r0 is around 9cm. There are quit good fringes on CLIMB. r0 is increasing till 14cm. Rapidly we can see E1E2 fringes clearly. We see fringes 23 after a few minutes integration. The position is 80 micron wrong.
We point check star HD224617. r0 is around 8cm. It's so difficult to see fringes 23 in this star. So we come back to HD7804. We **abort** the file. r0 is around 10cm right now.

UT04:25 Start recording on CLIMB. HD7804, Cal2 of HD1367.
HD1367CAL2E2E1W2.2012.10.28.04.11:

Beam 3 was not well adjusted. Adjustment done. Getting good fringes on CLIMB, very well centered. In this moment we can see fringes on 23 fringes as well. Since r0 is 12cm. Still perfect fringes on CLIMB.
Position of fringes 23 at 50microns of the right position, but we do not adjust better.
After 6 blks, SNR on 12=5.2 and 23 =3.
Peaks are more clear and beautiful than ones we got yesterday. For blk=14 third peak is quit visible. r0 is 14cm. Fringes on CLIMB still very well.

UT05:00 Start recording on CLIMB, HD1367. Target.
HD1367E2E1W2.2012.10.28.04.49:
r0 is around 10cm. Very well fringes on CLIMB as before. E1E2 fringes rapidly found. Fringes on CLIMB well centered and clear.
E2W2 comes at blk=19 in Algol _new.
Fringes on CLIMB still so nice. r0 is around 10cm. We don't see third peak.

UT05:45 Start recording on CLIMB. HD12573, CAL3 of HD1367.
HD1367CAL3E2E1W2.2012.10.28.05.40:
Fringes on CLIMB are so clear and stable. r0 is around 10cm.
E1E2 fringes very quickly are seen at blk=3.
The second peak is visible at blk=14, and also third peak.
At blk=21 beam1 is out. At blk=23 again here.
We will add 3 blk, so 43 instead of 40. r0 is around 12cm. Very well fringes on CLIMB.

- **D_R2720.2010.10.28.06.09**
  Pb with gazelle which was stopping.

- **D_R2720.2010.10.28.06.20**

V01 EXPN HD19994
UT06:28 Start recording on CLIMB. HD19994 Target.
HD19994E2E1W2.2012.10.28.06.26:
Here we have the same CAL of previous observation HD12573.
Fringes on CLIMB are stable and well centered. r0 is around 13cm.
E1E2 fringes are visible at blk=5. r0 is around 12cm.
Still nice fringes on CLIMB. The second peak is slightly visible at blk=40.
r0 is around 12cm.

Still crashes on logobs, not understandable

UT07:14 Start recording on CLIMB. HD21790 CAL1 of HD19994.
HD19994CAL1E2E1W2.2012.10.28.07.11:
r0 is around 11cm.

Fringes on CLIMB are quit stable. E1E2 & E2W2 fringes on VEGA can be seen clearly. r0 is around 12cm.
The third fringes is visible at blk=15.Very nice fringes on VEGA.
r0 is around 10cm. And perfect fringes on VEGA.

- **D_R2720.2012.10.28.07.40**

V38 SB of ABO stars HD37128
UT07:48
HD37128CAL2E2E1W2.2012.10.28.07.46:
Aborted the file.

UT08:00
HD37128CAL2E2E1W2.2012.10.28.07.52:
Still there is a problem with detector. Detector state in AlgolNew is
Aborted the file.

UT08:02
HD37128CAL2E2E1W2.2012.10.28.08.02:
r0 is around 14cm but still problem with detector.
Aborted the file.

UT08:14
HD37128CAL2E2E1W2.2012.10.28.08.17:
Aborted the file.

UT08:29 We don't need to record CLIMB. HD34503 CAL2 of HD37128.
HD37128CAL2E2E1W2.2012.10.28.08.31:
There was a problem with file. So Isabelle corrected it and now we start again.
So we directly record VEGA.
r0 is around 13cm. We have very nice fringes on CLIMB and well centered.
2 peaks are visible clearly. r0 is around 13cm. The third peak is not visible yet.
Still good fringes on CLIMB.

UT09:00 We don't need to record CLIMB. HD37128 Target.
HD37128E2E1W2.2012.10.28.09.02:
Density is 1:00 for AlgolR and Algolnew.
Average photon is ~1600 in Algolnew and 1900 on AlgolR
On Blk=23 saut de franges climb soudain. Asservissement ok.
r0 is 13cm.fringes on CLIMB are stable.
Peak 1 and 2 rapidly visible.

UT09:00 We don't need to record CLIMB. HD34503 CAL2 of HD37128.
HD37128CAL2E2E1W2.2012.10.28.09.31:
Density =0.3 on AlgolR. NIRO crashed at blk=1. Normal tracking at blk=6

Fringes are stable.
We see E1E2 fringes on blk=13.
E1W2 fringes are visible. r0 is around 11cm.

UT9:55 We don't need to record CLIMB.HD37128 Target.
HD37128E2E1W2.2012.10.28.10.00:
Density is 1:00 for AlgolR and Algolnew.
r0 is around 8cm.
The first peak apears rapidly in the first blk. The second one came at blk=3
Fringes on CLIMB are stable and clear.
r0 is around 10cm. We have so clear peaks.
And fringes on CLIMB are so stable and nice.
We take only 30 blk instead of 40.
The third peak is not visible.

UT10:20 We don't need to record CLIMB.HD37077 CAL1 of HD37128.
HD37128CAL1E2E1W2.2012.10.28.10.21:
r0 is around 11cm.
Nice fringes on CLIMB.
We have average number of photons around 600 for AlgolR and new.
At blk=3 we can see peak one and peak 2.
Clear peaks. r0 is around 10cm.
At blk=15 we see third peak.
Still we have nice fringes on CLIMB. r0 is around 10cm.
We have very clear and good peaks.

- **D_R2720.2012.10.28.10.51**

CONFIGURATION: S1S2 + POP4 POP 4
Adjusting on HD62345 a check star
r0 is around 13cm.
r0 is around 17cm.

CLIMB_B1= -0.2
Offset:-5.1mm

V12 YSOs HD31648
HD31648CAL1S1S2.2012.10.28.11.07:
r0 is around 18cm. Nice and quit stable fringes on CLIMB.
Peak is visible at blk=2. Peak is so clear and bright.
r0 is around 16cm.
SNR(17 after 20 blks)is good so we take only 30 blks in strad of 40.
r0 is around 17cm. Fringes on CLIMB are still nice and stable. Peak is so clear.
We forgot to record on CLIMB data.

UT12:10 Start recording on CLIMB.HD31648 Target.
HD31648S1S2.2012.10.28.12.05:
Fringes on CLIMB are quit stable. r0 is around
We have around 120 photons in Algolnew and 50 in AlgolR.
Peak with SNR=2.4 at blk=40 is visible but so faint.
r0 is around 15cm. good and stable fringes on CLIMB.
at blk=56 SNR is 2.8 we add 30 blks.
Peak is getting more clear.
SNR=3.7 at the end. r0 is around 14cm.

UT13:06 Start recording on CLIMB. HD46553 CAL2 of HD31648
HD31648CAL2S1S2.2012.10.28.13.06:
Nice and stable fringes on CLIMB. peak is visible in blk=1.
We have so clear peaks.
r0 is around 13cm.
We go to blk=25 instead of 40.

- **D_R2656.2012.10.28.13.23**

End at 13:30!!!!:)))
We really like to continue!!!! but sun troubled …☹