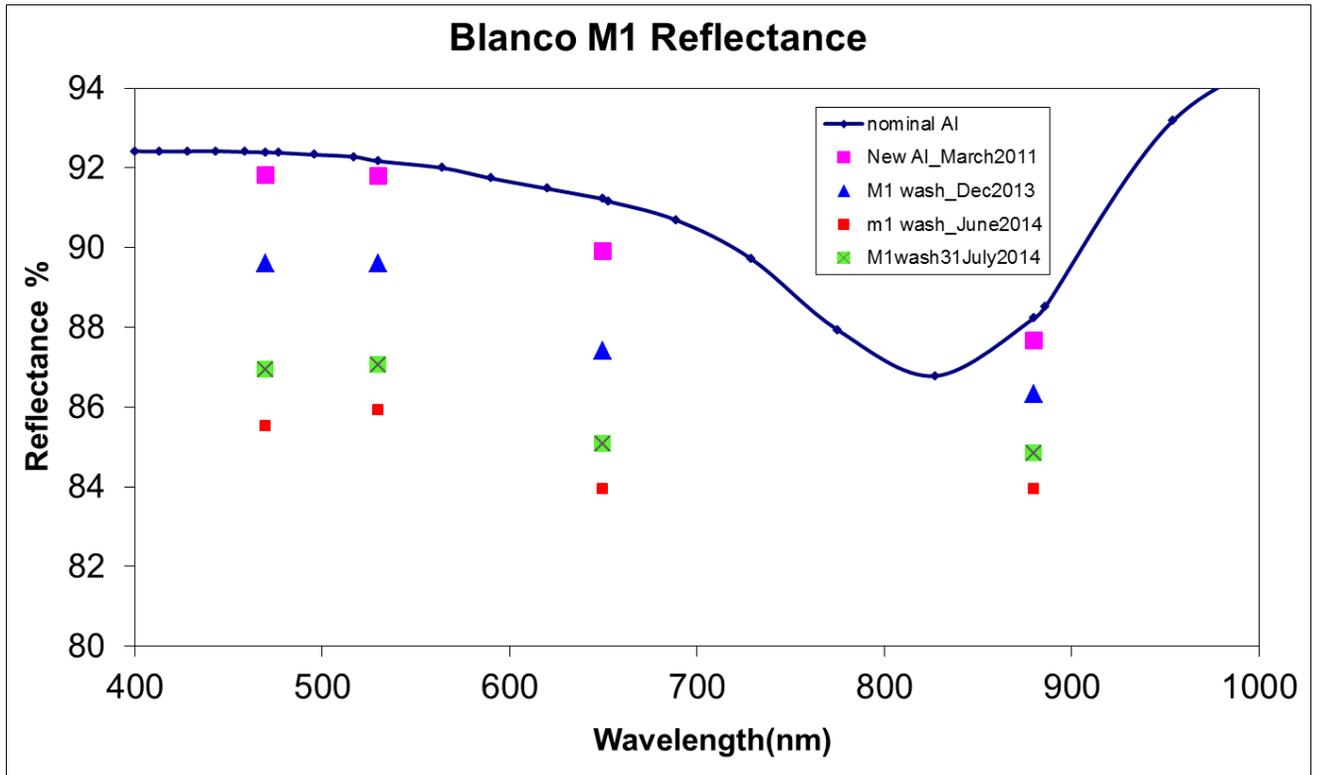


## Blanco M1& M2 Reflectance and Scattering update 31072014.

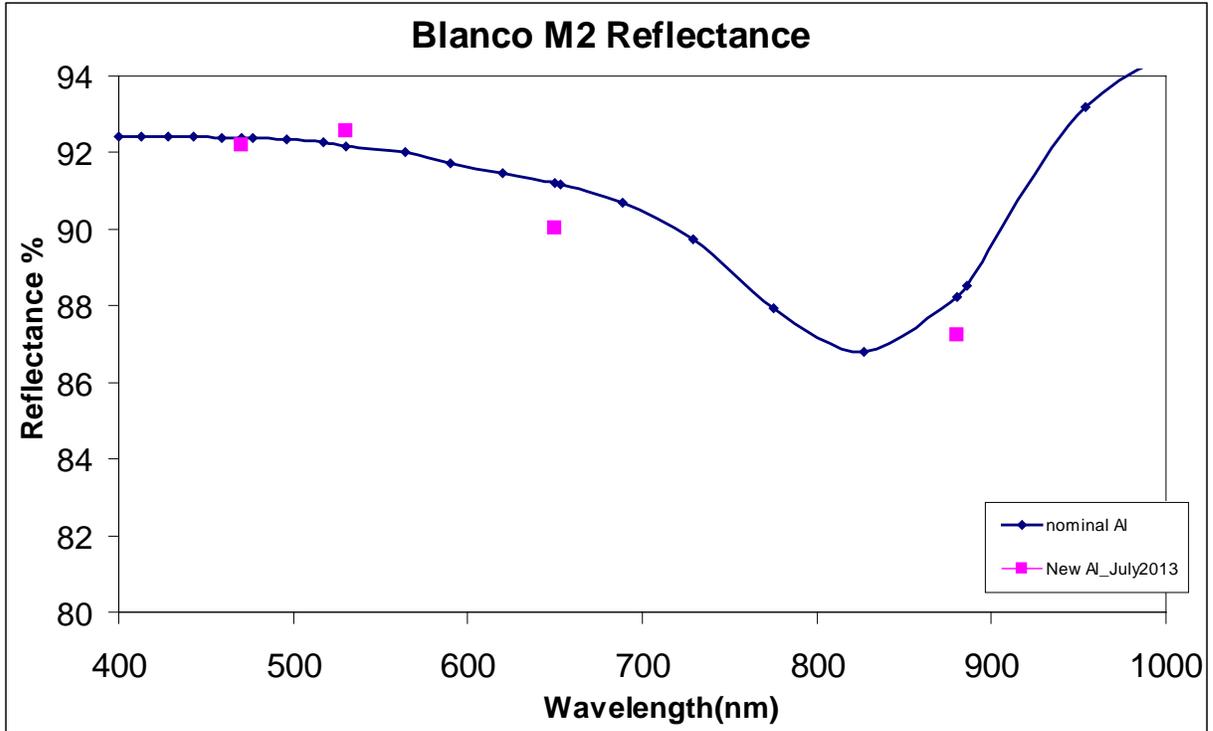


Date and Action	Reflectance Before %				Reflectance After %				TIS bef.% (@650nm)	TIS after% (@650nm)
	470nm	530nm	650nm	880nm	470nm	530nm	650nm	880nm		
New AI Mar2011	-----	-----	-----	-----	91.82	91.80	89.90	87.68	-----	0.20
M1washDec2013	86.37	84.60	82.35	80.40	89.60	89.61	87.41	86.33	3.64	0.86
M1washJune2014	83.33	84.42	82.91	82.01	85.52	85.92	83.94	83.95	5.22	2.59
M1wash31072014	80.03	86.81	87.14	83.97	86.93	87.05	85.07	84.83	3.24	2.39
Note: TIS is Total Integrated Scattering.										
Delta R	1.48 %				6.90	0.24	-2.07	0.86		
Delta S	0.85 %									

Note:

1)After 6 months w/o washing M1(Dec2013-June2014), loss of R was high and S was high. The main mirror was washed again after two months (3June-31July). Reflectance is increasing and Scattering is decreasing. From now on we will stick to the 3months period schedule and maximize R and minimize S. It will never get back to its original value because the surface has received drops of water (+dirt) probably from ice on the LN2 cooling lines.

2)Also after more or less normalizing the washing routine, variation of reflectance from before to after washing, has lowered from ~10% to ~2% (see plot next page).



Date and Action	Reflectance Before %				Reflectance After %				TIS bef.% (@650nm)	TIS after% (@650nm)
	470nm	530nm	650nm	880nm	470nm	530nm	650nm	880nm		
New Al July2013	-----	-----	-----	-----	92.21	92.57	90.04	87.25	-----	0.26

Note: TIS is Total Integrated Scattering.

