

Reflectivity results following Soap & Water wash of WHT Primary mirror, 25 October 2023
 All measured at AP3 on the "bottom" half of the mirror. Nonuniform result noticeable from these few measurements. In order to compare it with the last measurement (taken 2020), a correction factor was derived from comparison with INT aluminisation in 2023. Without this correction, %R at 970 nm shows an increase. The corrected result instead shows a steady trend in %R loss increasing towards the blue. This has previously been found in ageing coatings.

				Tempr. °C	wavelength of band (nm)						
					365	404	464	522	624	760	970
124	25/10/2023	14:06	WHT Primary	20.22	89.22	87.30	87.00	87.49	88.80	85.56	92.34
125	25/10/2023	14:07	WHT Primary	20.72	88.62	86.68	86.55	87.02	88.57	85.32	92.04
126	25/10/2023	14:07	WHT Primary	21.22	89.74	87.82	87.49	87.92	89.08	85.85	92.34
127	25/10/2023	14:08	WHT Primary	21.59	88.79	86.94	86.76	87.58	88.76	85.60	92.19
Average %R					89.09	87.19	86.95	87.50	88.80	85.58	92.23
10/07/2020 Average after CO2					92.43	90.90	90.45	90.52	89.56	86.58	92.10
average losses					3.34	3.71	3.50	3.01	0.76	1.00	-0.13
correction , new CT7					1.01	1.01	0.99	1.00	1.00	1.01	1.00
corrected vals 2020					93.42	91.40	89.89	90.54	89.86	87.46	92.54
%R minimum loss, w.r.t corrected					3.68	3.58	2.40	2.62	0.78	1.61	0.20

				"Dust Indices"							
				365	404	464	522	624	760	970	
124	25/10/2023	14:06	WHT Primary	20.22	8.9	8.3	7.3	5.8	3.7	3.6	2.2
125	25/10/2023	14:07	WHT Primary	20.72	10.6	9.7	8.7	7.1	4.6	4.2	2.8
126	25/10/2023	14:07	WHT Primary	21.22	6.4	5.8	5.2	4.2	2.7	2.5	1.9
127	25/10/2023	14:08	WHT Primary	21.59	8.6	7.9	7.2	5.2	3.7	3.4	2.1
10/07/2020 Average after CO2				2.5	2.3	2.3	1.7	1.9	1.5	1.7	