

**Checks of reflectivity WHT primary mirror 10 Sept (3 weeks after washing) and 11 Nov (9 weeks later).  
Measurements and report by Neil O'Mahony**

data #	date-time	C#	Location	T/°C	% Reflectivity per waveband of measurement (nm)						
					365	404	464	522	624	760	970
524	10/09/2015 13:56	0	Q2	23.9	90.9	89.6	89.7	89.7	89.2	86.7	92.7
525	10/09/2015 13:57	0	Q2	23.8	90	88.8	88.9	89.2	88.6	86.3	92.3
526	10/09/2015 13:59	0	Q3	23.6	89.6	88.3	88.3	88.8	88.3	85.9	92.2
527	10/09/2015 14:00	0	Q3	23.5	90.3	89.1	89.1	89.4	88.8	86.4	92.5
529	10/09/2015 14:02	0	Q4	23.3	90.8	89.3	89.2	89.5	88.9	86.3	92.4
530	10/09/2015 14:03	0	Q4	23.3	91.4	89.9	89.8	90	89.3	86.6	92.7
531	10/09/2015 14:05	0	Q1	23.3	90.5	88.9	88.9	89.1	88.8	86	92.1
532	10/09/2015 14:05	0	Q1	23.1	89.9	88.2	87.6	89	87.8	85.5	92.1
average over mirror					90.4	89.0	88.9	89.3	88.7	86.2	92.4
Average from last wash					90.3	89.0	89.0	89.4	88.7	86.2	92.2
<b>No significant change.</b>											

**DUST INDEX**

524					5	4.2	3.7	2.8	2.5	1.8	1.8
525					7.1	6.2	5.6	4.1	4	2.8	2.6
526					8.1	7.5	7.3	4.9	4.8	3.7	3
527					6.4	5.7	5.2	3.7	3.6	2.5	2.1
529					5.5	5.2	5.2	3.5	3.4	2.7	2.1
530					4.2	3.8	3.6	2.6	2.5	2	1.8
531					6	6.1	5.8	4.4	3.7	3.2	2.6
532					6.5	6.8	7.8	3.5	5.3	3.8	2.1
Average					6.1	5.7	5.5	3.7	3.7	2.8	2.3
Dust Index after wash 20/8					6.6	6.0	5.6	3.9	3.8	2.7	2.3

**Check 9 weeks later than the preceding:**

data #	date-time	C#	Location	T/°C	% Reflectivity per waveband of measurement (nm)						
					365	404	464	522	624	760	970
540	10/11/2015 15:35	2	WHT M1	20.9	89.7	88.2	88	88.5	87.6	85.2	91.3
541	10/11/2015 15:36	2	WHT M1	20.8	89.6	88.2	87.9	88.5	87.8	85.1	91.5
*542	10/11/2015 15:37	2	WHT M1	20.6	87.9	86.4	84.7	86.9	86.9	83.9	90.1
543	10/11/2015 15:38	2	WHT M1	20.6	88.2	86.9	87.2	87.3	86.8	84.5	90.5
average of 3					89.2	87.8	87.7	88.1	87.4	84.9	91.1
<b>% Reflectivity loss since 10 Sept</b>					<b>1.2</b>	<b>2.1</b>	<b>1.8</b>	<b>2.1</b>	<b>1.9</b>	<b>1.7</b>	<b>1.7</b>

\*unit moved during measurement - omit data from statistics