

5 Sept. 2018 Report on WHT primary mirror reflectivity and visual appearance following inspection and measurements at AP3.

Mirror was inspected following appearance of high cloud on morning of 5 Sept. Inspection showed no new rainfall on mirror. Note CT7 date corrected.

Mirror washing has been proposed following first autumn rains, so inspection will be carried out approximately fortnightly.

7 CT7 measurements were taken with telescope horizontal (AP3), near the bottom of the mirror. Clear and stained areas were deliberately sampled.

No significant change since CO2 cleaning, 9 days ago.

	Tempr. °C	Reflectivity (%R) wavelength of band (nm)							"Dust Indices" (DI)						
		365	404	464	522	624	760	970	365	404	464	522	624	760	970
1448 05/09/2018 10:18 1 stain	22.6	74.9	74.3	73.9	73.6	72.8	70.8	74.2	28.9	29.9	35.1	30.2	26.8	22.4	37.5
1449 05/09/2018 10:19 1 typical, R	22.8	86.1	84.5	84.3	84.4	84.1	81.7	87.7	13.7	13.7	14.7	12.2	13.4	11.9	12.3
1450 05/09/2018 10:20 1 R clear	23.1	88.3	86.7	86.6	86.5	86.3	83.8	90.2	10.6	10.3	10.5	8.8	8.9	7.7	7.4
1451 05/09/2018 10:22 1 R	23.6	88.0	86.6	86.3	86.8	86.1	84.0	90.7	12.3	11.8	11.6	9.1	9.8	7.9	7.2
1452 05/09/2018 10:24 1 low?	23.9	86.6	85.5	85.3	85.6	84.9	83.0	89.1	13.5	12.9	13.3	10.3	11.9	9.7	9.5
1453 05/09/2018 10:25 1 baffle, L	24.3	86.7	85.5	85.4	85.7	85.1	83.0	89.2	12.5	12.1	12.3	9.5	10.8	8.8	8.8
1454 05/09/2018 10:26 1 L, high	24.7	88.0	86.5	86.6	86.2	86.5	83.8	90.2	11.9	11.4	11.3	9.6	9.1	7.8	7.4
average, omit stain		87.3	85.9	85.8	85.9	85.5	83.2	89.5	12.4	12.0	12.3	9.9	10.7	9.0	8.8
compared with previous average		0.1	0.0	-0.1	-0.2	0.0	-0.1	0.1	0.0	0.3	0.4	0.5	0.3	0.4	0.2