

## Reflectivity report for WHT primary mirror 26-5-2017

No cleaning - measurements and comparison only. Deterioration has been less than 2% in 2 months (in %R and DI measurements).

worst values highlighted in brown, best values in green (highest in %R, lowest in %DI)

Outlying values: if lower than expected for wavelength, highlighted in red. If higher in green

				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
1072	26/05/2017 09:36	1 left	20.7	89.6	88.2	87.8	87.7	87.1	83.7	90.7	6.6	6.4	6.9	5.6	6.7	6.1	6.3	
1073	26/05/2017 09:37	1 left	20.7	89.7	88.3	87.9	87.8	87.1	84.5	90.5	6.7	6.5	6.9	5.7	6.6	5.8	6.0	
1074	26/05/2017 09:38	1 left	20.6	89.2	87.8	87.2	87.5	86.5	83.9	90.2	7.0	6.9	7.5	5.9	7.5	6.5	6.6	
1075	26/05/2017 09:39	1 left	20.7	89.8	88.5	88.0	88.2	87.4	84.7	90.8	6.7	6.4	6.8	5.5	6.1	5.5	5.7	
local average				89.6	88.2	87.7	87.8	87.0	84.2	90.6	6.8	6.6	7.0	5.7	6.7	6.0	6.2	
local range				0.6	0.7	0.8	0.7	0.9	1.0	0.6	0.4	0.5	0.7	0.4	1.4	1.0	0.9	
1076	26/05/2017 09:40	1 top	20.7	89.7	88.4	88.1	88.2	87.3	84.9	90.9	6.9	6.5	6.7	5.2	6.0	5.0	5.2	
1077	26/05/2017 09:40	1 top	20.6	90.0	88.5	88.0	88.1	87.3	84.7	90.8	6.5	6.4	6.8	5.4	6.2	5.4	5.5	
1078	26/05/2017 09:42	1 top	20.6	89.4	88.1	87.8	88.0	87.0	84.7	90.6	6.6	6.3	6.7	5.2	6.2	5.1	5.4	
1079	26/05/2017 09:43	1 top	20.6	89.6	88.1	87.7	87.9	87.1	84.5	90.5	6.8	6.9	7.1	5.7	6.7	5.6	5.9	
local average				89.7	88.3	87.9	88.1	87.2	84.7	90.7	6.7	6.5	6.8	5.4	6.3	5.3	5.5	
local range				0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.6	0.4	0.5	0.7	0.6	0.7	
1080	26/05/2017 09:44	1 right	20.6	90.1	88.6	88.2	88.3	87.4	84.9	90.8	6.1	6.0	6.3	5.1	5.7	5.0	5.2	
1081	26/05/2017 09:45	1 right	20.5	89.9	88.5	88.1	88.2	87.3	84.7	90.6	6.5	6.2	6.5	5.2	6.1	5.1	5.5	
1082	26/05/2017 09:46	1 right	20.4	90.0	88.6	88.2	88.4	87.3	84.9	91.0	6.4	6.0	6.4	5.0	6.0	5.1	5.2	
1083	26/05/2017 09:47	1 right	20.4	89.9	88.3	87.9	88.0	87.3	84.4	90.4	6.3	6.3	6.7	5.3	6.2	5.5	5.6	
local average				90.0	88.5	88.1	88.2	87.3	84.7	90.7	6.3	6.1	6.5	5.2	6.0	5.2	5.4	
local range				0.2	0.3	0.3	0.4	0.1	0.5	0.6	0.4	0.3	0.4	0.3	0.5	0.5	0.4	
1084	26/05/2017 09:48	1 bottom	20.3	89.9	88.5	88.1	88.1	87.3	84.7	90.7	6.8	6.5	6.8	5.4	6.1	5.4	5.5	
1085	26/05/2017 09:49	1 bottom	20.3	89.7	87.9	87.3	87.8	87.0	84.3	90.5	7.1	7.2	7.7	5.9	6.5	5.9	5.9	
1086	26/05/2017 09:50	1 bottom	20.2	89.6	88.2	87.8	87.9	87.1	84.4	90.4	6.5	6.6	6.8	5.5	6.2	5.4	5.6	
1087	26/05/2017 09:51	1 bottom	20.2	89.8	88.3	87.9	88.0	87.2	84.5	90.5	6.4	6.3	6.7	5.2	6.2	5.3	5.4	
local average				89.8	88.2	87.8	88.0	87.2	84.5	90.5	6.7	6.7	7.0	5.5	6.3	5.5	5.6	

local range	0.3	0.6	0.8	0.3	0.3	0.4	0.3	0.7	0.9	1.0	0.7	0.4	0.6	0.5
global average	89.7	88.3	87.9	88.0	87.2	84.5	90.6	6.6	6.5	6.8	5.4	6.3	5.5	5.7
maximum values	90.1	88.6	88.2	88.4	87.4	84.9	91.0	7.1	7.2	7.7	5.9	7.5	6.5	6.6
minimum values	89.2	87.8	87.2	87.5	86.5	83.7	90.2	6.1	6.0	6.3	5.0	5.7	5.0	5.2
ranges - omitting 1 outlier	0.9	0.8	1.0	0.9	0.9	1.0	0.8	1.0	1.2	1.4	0.9	1.8	1.5	1.4
std. deviations	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.4	0.3	0.4	0.4	0.4
Change since 18 apr	0.0	-0.1	-0.1	-0.1	0.0	-0.1	-0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1
<b>15 March 2017</b>														
measurements following last CO2 cleaning														
global average	91.0	89.6	89.2	89.3	88.5	85.8	92.0	5.5	5.1	5.2	4.0	4.4	3.6	3.7
Minima	90.2	88.7	88.2	88.4	87.4	84.8	91.0	4.8	4.4	4.4	3.3	3.6	2.9	2.9
Change in 2 months	-1.2	-1.3	-1.3	-1.3	-1.3	-1.3	-1.4	1.1	1.3	1.6	1.4	1.9	1.9	2.0



