

After Washing

Neil O'Mahony processed data and wrote this report.

Dome Humidity ~40%, Temperature 3 degC

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SMS Reflectometer data from one month after water washing.

During assessment of damage. No other cleaning in the meantime.

	BDSF (Scattering)		REFLECTAN CE	Surface Roughness s RMS (A)	comment	"TIME"	"DATE"
	Pos 1: Zenith 0° Azim. 0°	Pos 2: Zenith 50° Azim. 180°					
17	6.05E-003	1.26E-003	0.8230	65.3		"12:10:16"	"02-17-2011"
18	5.99E-003	1.25E-003	0.8210	65		"12:10:22"	"02-17-2011"
19	6.67E-003	1.50E-003	0.8340	66.8		"12:10:33"	"02-17-2011"
20	6.67E-003	1.50E-003	0.8340	66.8		"12:10:39"	"02-17-2011"
21	5.44E-003	1.37E-003	0.8310	58.8		"12:10:51"	"02-17-2011"
22	5.44E-003	1.37E-003	0.8300	58.9		"12:10:56"	"02-17-2011"
23	4.85E-003	1.09E-003	0.8440	56.6		"12:11:07"	"02-17-2011"
24	4.86E-003	1.09E-003	0.8480	56.5		"12:11:13"	"02-17-2011"
25	4.22E-003	9.85E-004	0.8570	51.9		"12:11:35"	"02-17-2011"
26	3.96E-003	9.39E-004	0.8520	50.2		"12:11:41"	"02-17-2011"
27	2.85E-002	6.60E-003	0.7790	141.7		"12:11:49"	"02-17-2011"
28	2.87E-002	6.62E-003	0.7790	142.4		"12:11:55"	"02-17-2011"
29	6.21E-003	1.37E-003	0.8320	64.7		"12:12:19"	"02-17-2011"
30	6.20E-003	1.37E-003	0.8320	64.7		"12:12:24"	"02-17-2011"
31	1.15E-001	2.31E-002	0.4970	370.9	damage?	"12:12:35"	"02-17-2011"
32	1.16E-001	2.32E-002	0.4960	372.8	skip these2	"12:12:40"	"02-17-2011"
33	4.19E-003	9.11E-004	0.8400	53.2		"12:12:49"	"02-17-2011"
34	4.19E-003	9.11E-004	0.8350	53.3		"12:12:53"	"02-17-2011"
35	6.17E-003	2.18E-003	0.8470	58.9		"12:13:18"	"02-17-2011"
36	6.18E-003	2.19E-003	0.8450	59		"12:13:23"	"02-17-2011"
37	3.88E-003	1.03E-003	0.8500	48.7		"12:13:34"	"02-17-2011"
38	3.87E-003	1.02E-003	0.8530	48.6		"12:13:41"	"02-17-2011"
39	7.15E-003	2.53E-003	0.8440	63.5		"12:13:50"	"02-17-2011"
40	7.13E-003	2.52E-003	0.8450	63.4		"12:13:54"	"02-17-2011"

avg selectd	0.00757	0.00189	0.834	66.3	
std error %	27.45583	24.30426	0.0061	6.7	← std error of roughness is an abs value
loss in 1mth	2.43097	4.41585			

Check Reflectivity of Reference Mirror immediately afterwards

41	5.39E-003	1.14E-003	0.8530	60.3		"12:14:12"	"02-17-2011"
42	2.61E-003	1.09E-003	0.9120	36.3	Ref Mirror	"12:18:14"	"02-17-2011"
43	2.61E-003	1.09E-003	0.9130	36.3		"12:18:19"	"02-17-2011"
44	1.60E-003	1.37E-003	0.9140	27.8		"12:18:27"	"02-17-2011"
45	1.60E-003	1.38E-003	0.9150	27.8		"12:18:32"	"02-17-2011"
46	3.56E-003	3.53E-003	0.9060	41.8		"12:18:40"	"02-17-2011"
47	3.57E-003	3.53E-003	0.9060	41.8		"12:18:45"	"02-17-2011"
48	6.94E-003	1.80E-003	0.8990	63.5		"12:18:53"	"02-17-2011"
49	6.95E-003	1.81E-003	0.8990	63.6		"12:18:58"	"02-17-2011"
50	3.95E-003	1.75E-003	0.9160	44.4		"12:19:05"	"02-17-2011"
51	3.96E-003	1.75E-003	0.9160	44.4		"12:19:11"	"02-17-2011"
52	9.60E-003	1.71E-003	0.9130	81.9		"12:19:17"	"02-17-2011"
Ref Mirror	4.27E-003	1.83E-003	0.9099	47.49	Reflectivity a little low		
std error	2.40E-003	8.07E-004		16.44			