

Line #	Spacecraft DATE/TIME	S/C Cmd #	HEX ID#	DEC ID #	GRS Deployed Mapping Activities Run Commands	Notes	Cumulative Seconds
1	03-322/14:24:46	cn0829	C42	3138	c01grs_s38b_anneal_to_open2_1.bfl	Executed at Orbit 143, Pixel 222	
2		(GRS cmd id 2820)	E501	58625	c01grs_mr_temp_b_low_p45_0c.sasf	45°C 318°K Dn=13249 (0x33C1)	imm
3		(GRS cmd id 2821)	E502	58626	c01grs_mr_temp_b_up_p44_0c.sasf	44°C 317°K Dn=13293 (0x33ED)	imm
4		(GRS cmd id 2948)	E503	58627	c01grs_os_temp_a_low_p45_0c.sasf	45°C 318°K Dn=13224 (0x33A8)	imm
5		(GRS cmd id 2949)	E504	58628	c01grs_os_temp_a_up_p44_8c.sasf	44.8°C 317.8°K Dn=13233 (0x33B1)	imm
6		(GRS cmd id 2906)	E505	58629	c01grs_is_temp_b_up_p40_0c.sasf	40°C 313°K Dn=13420 (0x346C)	imm
7		(GRS cmd id 2958)	E506	58630	c01grs_is_temp_b_use_seq_39b.sasf	To continue the MR/OS temperature decreases	imm
8		(GRS cmd id 1323)	E507	58631	c01grs_gpa_heater_3_off.sasf		imm
9		(GRS cmd id 1112)	E508	58632	c01grs_activate_sequence_12b.sasf	Initialize gamma subsystem	imm
10							
11	03-230/20:06:32	cn0776			c01grs_delete_sequences_3.bcf		imm
12			C74	3188	c01grs_delete_s38b_1.sasf		imm
13							
14	03-148/12:04:06	cn0716	C42	3138	c01grs_s38b_os_s_a_duty_on_1.bfl	Executed at Orbit 2437, Pixel 207	
15		(GRS cmd id tbd)	E501	58625	c01grs_ceb_timer0_15000_msec.sasf	Counterintuitive - sets up timer for next cycle	imm
16		(GRS cmd id 2406)	E502	58626	c01grs_ceb_a_sp2_use_seq_37b.sasf	Sequence 31b turns on OS Secondary heater	imm
17		(GRS cmd id 1304)	E503	58627	c01grs_ann_pwr_o_os_sec_on.sasf		imm
18		(GRS cmd id 2401)	E504	58628	c01grs_ceb_a_sp2_comp_less.sasf	Instrument 64 will power on (31b) and off (32b)	imm
19							
20	02-198/16:13:10	cn0415			c01grs_delete_sequences_2.bcf		imm
21			C74	3188	c01grs_delete_s38b_1.sasf		imm
22							
23	02-144/17:15:25	cn0344	C42	3138	c01grs_s38b_boom_deploy_3.bfl	Executed at Orbit 1153, Pixel 208	
24		(GRS cmd id 2469)	E501	58625	c01grs_is_temp_b_dont_comp.sasf		0 orb/0 pix
25		(GRS cmd id 1309)	E502	58626	c01grs_ann_pwr_o_mr_sec_off.sasf		0 orb/1 pix
26		(GRS cmd id 1324)	E503	58627	c01grs_op_heater_on.sasf		0 orb/1 pix
27		(GRS cmd id tbd)	E504	58628	c01grs_mr_temp_b_low_p69_0c.sasf	69°C 342°K Dn=12202 (0x2FAA)	0 orb/1 pix
28		(GRS cmd id tbd)	E505	58629	c01grs_mr_temp_b_up_p68_0c.sasf	68°C 341°K Dn=12246 (0x2FD6)	0 orb/1 pix
29		(GRS cmd id tbd)	E506	58630	c01grs_os_temp_a_low_p69_0c.sasf	69°C 342°K Dn=12165 (0x2F85)	0 orb/1 pix
30		(GRS cmd id tbd)	E507	58631	c01grs_os_temp_a_up_p68_8c.sasf	68.8°C 341.8°K Dn=12174 (0x2F8E)	0 orb/1 pix
31		(GRS cmd id tbd)	E508	58632	c01grs_mr_temp_b_low_p55_8c.sasf	55.8°C 328.8°K Dn=12779 (0x31EB)	0 orb/183 pix
32		(GRS cmd id tbd)	E509	58633	c01grs_mr_temp_b_up_p54_8c.sasf	54.8°C 327.8°K Dn=12822 (0x3216)	0 orb/183 pix
33		(GRS cmd id tbd)	E50A	58634	c01grs_os_temp_a_low_p55_8c.sasf	55.8°C 328.8°K Dn=12749 (0x31CD)	0 orb/183 pix
34		(GRS cmd id tbd)	E50B	58635	c01grs_os_temp_a_up_p55_6c.sasf	55.6°C 328.6°K Dn=12757 (0x31D5)	0 orb/183 pix
35							
36	02-135/20:32:38	cn0323	C42	3138	c01grs_s38b_boom_deploy_2.bfl	Executed at Orbit xxxx , Pixel xxx	
37		(GRS cmd id 2469)	E501	58625	c01grs_is_temp_b_dont_comp.sasf		0 orb/0 pix
38		(GRS cmd id 1309)	E502	58626	c01grs_ann_pwr_o_mr_sec_off.sasf		0 orb/1 pix
39		(GRS cmd id 1324)	E503	58627	c01grs_op_heater_on.sasf		0 orb/1 pix
40		(GRS cmd id 2818)	E504	58628	c01grs_mr_temp_b_low_p52c.sasf	52°C 325°K Dn=12944 (0x3290)	0 orb/1 pix
41		(GRS cmd id 2819)	E505	58629	c01grs_mr_temp_b_up_p51c.sasf	51°C 324°K Dn=12988 (0x32BC)	0 orb/1 pix
42		(GRS cmd id 2816)	E506	58630	c01grs_os_temp_a_low_p52_0c.sasf	52°C 325°K Dn=12916 (0x3274)	0 orb/1 pix
43		(GRS cmd id 2817)	E507	58631	c01grs_os_temp_a_up_p51_8c.sasf	51.8°C 324.8°K Dn=12925 (0x327D)	0 orb/1 pix
44							
45	02-129/18:57:20	cn0277	C42	3138	c01grs_s38b_boom_deploy_1.bfl	Executed at Orbit 972, Pixel 76	
46		(GRS cmd id 2469)	E501	58625	c01grs_is_temp_b_dont_comp.sasf		0 orb/0 pix
47		(GRS cmd id 1309)	E502	58626	c01grs_ann_pwr_o_mr_sec_off.sasf		0 orb/1 pix
48		(GRS cmd id 1324)	E503	58627	c01grs_op_heater_on.sasf		0 orb/1 pix
49		(GRS cmd id 2831)	E504	58628	c01grs_mr_temp_b_low_p50c.sasf	50°C 323°K Dn=13031 (0x32E7)	0 orb/1 pix
50		(GRS cmd id 2832)	E505	58629	c01grs_mr_temp_b_up_p49c.sasf	49°C 322°K Dn=13075 (0x3313)	0 orb/1 pix
51		(GRS cmd id 2837)	E506	58630	c01grs_os_temp_a_low_p50_0c.sasf	50°C 323°K Dn=13004 (0x32CC)	0 orb/1 pix
52		(GRS cmd id 2838)	E507	58631	c01grs_os_temp_a_up_p49_8c.sasf	49.8°C 322.8°K Dn=13013 (0x32D5)	0 orb/1 pix
53							
54	02-065/18:38:54	cn0146	C42	3138	c01grs_s38b_warm_anneal1_1.bfl	Executed at Orbit 194, Pixel 214	
55		(GRS cmd id 1245)	E501	58625	c01grs_ceb_alt_curr_timer3.sasf		imm

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56		(GRS cmd id 2469)	E502	58626	c01grs_is_temp_b_dont_comp.sasf	Terminate the comparison	imm
57		(GRS cmd id 1114)	E503	58627	c01grs_activate_sequence_14b.sasf	Ramp down gamma high voltage	20
58		(GRS cmd id 1308)	E504	58628	c01grs_ann_pwr_o_mr_sec_on.sasf	MR secondary heater used to assist primary heater to control temp	380
59		(GRS cmd id 2078)	E505	58629	c01grs_mr_temp_b_oor_a_ct_2.sasf	Requires two consecutive out-of-range values.	380
60		(GRS cmd id 2075)	E506	58630	c01grs_mr_temp_b_timer2.sasf	Switch to timer 2 for 20-second intervals.	380
61		(GRS cmd id 2079)	E507	58631	c01grs_mr_temp_b_lower_p63c.sasf	63°C 336°K Dn=12464 (0x30B0)	380
62		(GRS cmd id 2080)	E508	58632	c01grs_mr_temp_b_upper_p61c.sasf	61°C 334°K Dn=12552 (0x3108)	380
63		(GRS cmd id 1145)	E509	58633	c01grs_activate_sequence_45b.sasf	Start heater control (turns MR primary heater on)	400
64		(GRS cmd id 1137)	E50A	58634	c01grs_activate_sequence_37b.sasf	Start second part of Warm Anneal	460
65							
66	n/a	n/a			c00grs_seq_38_b_ann_os_se_off.bfl	Pre-launch load	
67			E501	58625	c01grs_os_temp_b_comp_great.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	imm
68			E502	58626	c01grs_os_temp_b_use_seq_37b.sasf		imm
69			E503	58627	c01grs_ann_pwr_o_os_sec_off.sasf		imm