

Line #	Spacecraft DATE/TIME	S/C Cmd #	HEX ID#	DEC ID #	GRS Deployed Mapping Activities Run Commands	Notes	Cumulative Seconds
1	03-323/22:26:34	cn0835	C4D	3149	c01grs_s49b_post_ramp1_1.bfl	Executed at Orbit 159, Pixel 297	
2		(GRS cmd id 2964)	F001	61441	c01grs_os_temp_a_lo_n101_28c.sasf	-101.28°C 171.72°K Dn=3033 (0xBD9)	imm
3		(GRS cmd id 2965)	F002	61442	c01grs_os_temp_a_up_n101_30c.sasf	-101.3°C 171.7°K Dn=3034 (0xBDA)	imm
4		(GRS cmd id 1472)	F003	61443	c01grs_ceb_timer0_1000_msec.sasf	Counterintuitive - sets up timer for next cycle	20
5		(GRS cmd id 2415)	F004	61444	c01grs_ceb_a_sp2_timer0.sasf		20
6		(GRS cmd id 2750)	F005	61445	c01grs_dl_ceb_sp2_100.sasf	Set downlink to once every 100 collections	20
7		(GRS cmd id 2410)	F006	61446	c01grs_ceb_a_sp2_lower_1000.sasf		20
8		(GRS cmd id 2349)	F007	61447	c01grs_os_temp_a_dont_comp.sasf	Terminate the comparison (for OS sec heater control)	20
9		(GRS cmd id 1133)	F008	61448	c01grs_activate_sequence_33b.sasf	Start OS sec heater control using OS_TEMP_A sensor (turns heater off)	40
10		(GRS cmd id 1150)	F009	61449	c01grs_activate_sequence_50b.sasf		60
11							
12	03-024/18:30:14	cn0604	C4D	3149	c01grs_s49b_open_cool5_2.bfl	Executed at Orbit 934, Pixel 185	
13		(GRS cmd id 2469)	F001	61441	c01grs_is_temp_b_dont_comp.sasf	Terminate the comparison	imm
14		(GRS cmd id 2797)	F002	61442	c01grs_gpa_temp_oor_a_ct_0.sasf	Requires zero consecutive out-of-range values	imm
15		(GRS cmd id 2742)	F003	61443	c01grs_gpa3_temp_low_n29_77c.sasf	-29.77°C 243.23°K [Dn=6356] [(0x18D4)]	imm
16		(GRS cmd id 2776)	F004	61444	c01grs_mr_temp_a_oor_a_ct_0.sasf	Requires zero consecutive out-of-range values	imm
17		(GRS cmd id 2805)	F005	61445	c01grs_mr_temp_a_low_n89_95c.sasf	-89.95°C 183.05°K Dn=2552 (0x9F8)	imm
18		(GRS cmd id 2442)	F006	61446	c01grs_os_temp_a_low_n88_2c.sasf	-88.2°C 184.8°K Dn=2506 (0x9CA)	imm
19		(GRS cmd id 2480)	F007	61447	c01grs_os_temp_a_up_n88_3c.sasf	-88.3°C 184.7°K Dn=2510 (0x9CE)	imm
20		(GRS cmd id 2484)	F008	61448	c01grs_os_temp_a_low_n93_2c.sasf	-93.2°C 179.8°K Dn=2708 (0xA94)	3600
21		(GRS cmd id 2482)	F009	61449	c01grs_os_temp_a_up_n93_3c.sasf	-93.3°C 179.7°K Dn=2712 (0xA98)	3600
22		(GRS cmd id 2749)	F00A	61450	c01grs_os_temp_a_low_n98_28c.sasf	-98.28°C 174.72°K Dn=2913 (0xB61)	7200
23		(GRS cmd id 2500)	F00B	61451	c01grs_os_temp_a_up_n98_3c.sasf	-98.3°C 174.7°K Dn=2914 (0xB62)	7200
24		(GRS cmd id tbd)	F00C	61452	c01grs_is_temp_b_up_n173c.sasf	-173°C 100°K Dn=5805 (0x16AD)	7220
25		(GRS cmd id tbd)	F00D	61453	c01grs_is_temp_b_use_seq_50b.sasf	Step down the temperature setpoints for the OS heater	7220
26		(GRS cmd id 2471)	F00E	61454	c01grs_is_temp_b_comp_great.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	7240
27		(GRS cmd id 1041)	F00F	61455	c01grs_activate_sequence_41a.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	7240
28							
29	02-330/19:28:38	cn0555	C4D	3149	c01grs_s49b_open_cool5_1.bfl	Executed at Orbit 218, Pixel 93	
30		(GRS cmd id 2469)	F001	61441	c01grs_is_temp_b_dont_comp.sasf	Terminate the comparison	imm
31		(GRS cmd id 2797)	F002	61442	c01grs_gpa_temp_oor_a_ct_0.sasf	Requires zero consecutive out-of-range values	imm
32		(GRS cmd id 2742)	F003	61443	c01grs_gpa3_temp_low_n29_77c.sasf	-29.77°C 243.23°K [Dn=6356] [(0x18D4)]	imm
33		(GRS cmd id 2776)	F004	61444	c01grs_mr_temp_a_oor_a_ct_0.sasf	Requires zero consecutive out-of-range values	imm
34		(GRS cmd id 2805)	F005	61445	c01grs_mr_temp_a_low_n89_95c.sasf	-89.95°C 183.05°K Dn=2552 (0x9F8)	imm
35		(GRS cmd id 2442)	F006	61446	c01grs_os_temp_a_low_n88_2c.sasf	-88.2°C 184.8°K Dn=2506 (0x9CA)	imm
36		(GRS cmd id 2480)	F007	61447	c01grs_os_temp_a_up_n88_3c.sasf	-88.3°C 184.7°K Dn=2510 (0x9CE)	imm
37		(GRS cmd id 2484)	F008	61448	c01grs_os_temp_a_low_n93_2c.sasf	-93.2°C 179.8°K Dn=2708 (0xA94)	3600
38		(GRS cmd id 2482)	F009	61449	c01grs_os_temp_a_up_n93_3c.sasf	-93.3°C 179.7°K Dn=2712 (0xA98)	3600
39		(GRS cmd id 2749)	F00A	61450	c01grs_os_temp_a_low_n98_28c.sasf	-98.28°C 174.72°K Dn=2913 (0xB61)	7200
40		(GRS cmd id 2500)	F00B	61451	c01grs_os_temp_a_up_n98_3c.sasf	-98.3°C 174.7°K Dn=2914 (0xB62)	7200
41		(GRS cmd id 1041)	F00C	61452	c01grs_activate_sequence_41a.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	7220
42							
43	02-198/16:13:10	cn0415			c01grs_delete_sequences_2.bcf		imm
44			C7F	3199	c01grs_delete_s49b_1.sasf		imm
45							
46	02-144/17:33:49	cn0347	C4D	3149	c01grs_s49b_boom_deploy_2.bfl	Executed at Orbit 1153, Pixel 263	
47		(GRS cmd id 2469)	F001	61441	c01grs_is_temp_b_dont_comp.sasf		0 orb/0 pix
48		(GRS cmd id tbd)	F002	61442	c01grs_mr_temp_b_low_p21_0c.sasf	21°C 294°K Dn=14290 (0x37D2)	0 orb/1 pix
49		(GRS cmd id tbd)	F003	61443	c01grs_mr_temp_b_up_p20_0c.sasf	20°C 293°K Dn=14333 (0x37FD)	0 orb/1 pix
50		(GRS cmd id tbd)	F004	61444	c01grs_os_temp_a_low_p21_0c.sasf	21°C 294°K Dn=14275 (0x37C3)	0 orb/1 pix
51		(GRS cmd id tbd)	F005	61445	c01grs_os_temp_a_up_p20_8c.sasf	20.8°C 293.8°K Dn=14284 (0x37CC)	0 orb/1 pix
52		(GRS cmd id 2867)	F006	61446	c01grs_is_temp_b_up_p19c.sasf	19°C 292°K Dn=14342 (0x3806)	0 orb/1 pix
53		(GRS cmd id 2868)	F007	61447	c01grs_is_temp_b_use_seq_50b.sasf		0 orb/1 pix
54		(GRS cmd id 2471)	F008	61448	c01grs_is_temp_b_comp_great.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	0 orb/2 pix
55							

Line #	Spacecraft DATE/TIME	S/C Cmd #	HEX ID#	DEC ID #	GRS Deployed Mapping Activities Run Commands	Notes	Cumulative Seconds
56	02-129/19:14:43	cn0285	C4D	3149	c01grs_s49b_boom_deploy_1.bfl	Executed at Orbit 972, Pixel 129	
57		(GRS cmd id 2469)	F001	61441	c01grs_is_temp_b_dont_comp.sasf		0 orb/0 pix
58		(GRS cmd id 2863)	F002	61442	c01grs_mr_temp_b_low_p19c.sasf	19°C 292°K Dn=14377 (0x3829)	0 orb/1 pix
59		(GRS cmd id 2864)	F003	61443	c01grs_mr_temp_b_up_p18c.sasf	18°C 291°K Dn=14420 (0x3854)	0 orb/1 pix
60		(GRS cmd id 2865)	F004	61444	c01grs_os_temp_a_low_p19_0c.sasf	19°C 292°K Dn=14363 (0x381B)	0 orb/1 pix
61		(GRS cmd id 2866)	F005	61445	c01grs_os_temp_a_up_p18_8c.sasf	18.8°C 291.8°K Dn=14371 (0x3823)	0 orb/1 pix
62		(GRS cmd id 2867)	F006	61446	c01grs_is_temp_b_up_p19c.sasf	19°C 292°K Dn=14342 (0x3806)	0 orb/1 pix
63		(GRS cmd id 2868)	F007	61447	c01grs_is_temp_b_use_seq_50b.sasf		0 orb/1 pix
64		(GRS cmd id 2471)	F008	61448	c01grs_is_temp_b_comp_great.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	0 orb/2 pix
65							
66	01-199/16:00:12	cn0022	C4D	3149	c01grs_seq_49_b_os_sec_a_on.bfl	Load sequence to EEPROM	
67					Load sequence 49b to EEPROM:		
68		(GRS cmd id tbd)	F001	61441	c01grs_os_temp_a_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	imm
69		(GRS cmd id tbd)	F002	61442	c01grs_os_temp_a_use_seq_48b.sasf	Activates sequence to compare greater than.	imm
70		(GRS cmd id tbd)	F003	61443	c01grs_ann_pwr_o_os_sec_on.sasf	Turns outer stage secondary heater on.	imm