

Line #	Spacecraft DATE/TIME	S/C Cmd #	HEX ID#	DEC ID #	GRS Deployed Mapping Activities Run Commands	Notes	Cumulative Seconds
1	03-322/14:15:04	cn0825	C37	3127	c01grs_s27b_open_cool5_1.bfl	Executed at Orbit 143, Pixel 192	
2		(GRS cmd id 2766)	DA01	55809	c01grs_is_temp_b_up_n158c.sasf	-158°C 115°K Dn=5247 (0x147F)	imm
3		(GRS cmd id 2774)	DA02	55810	c01grs_is_temp_b_use_seq_28b.sasf	Step down the temperature setpoints for the OS heater	imm
4		(GRS cmd id 2442)	DA03	55811	c01grs_os_temp_a_low_n88_2c.sasf	-88.2°C 184.8°K Dn=2506 (0x9CA)	imm
5		(GRS cmd id 2480)	DA04	55812	c01grs_os_temp_a_up_n88_3c.sasf	-88.3°C 184.7°K Dn=2510 (0x9CE)	imm
6		(GRS cmd id 1041)	DA05	55813	c01grs_activate_sequence_41a.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	imm
7							
8	02-197/17:13:28	cn0414			c01grs_delete_sequences_1.bcf		
9	Orbit 1771, Pixel 156	7/16 10:59	C69	3177	c01grs_delete_s27b_1.sasf		imm
10							
11	02-135/20:26:04	cn0321	C37	3127	c01grs_s27b_boom_deploy_2.bfl	Executed at Orbit xxxx, Pixel xxx	
12		(GRS cmd id 2082)	DA01	55809	c01grs_mr_temp_a_dont_comp.sasf	Stops comparison	0 orb/0 pix
13		(GRS cmd id 2816)	DA02	55810	c01grs_os_temp_a_low_p52_0c.sasf	52°C 325°K Dn=12916 (0x3274)	0 orb/1 pix
14		(GRS cmd id 2817)	DA03	55811	c01grs_os_temp_a_up_p51_8c.sasf	51.8°C 324.8°K Dn=12925 (0x327D)	0 orb/1 pix
15		(GRS cmd id 2839)	DA04	55812	c01grs_mr_temp_a_low_p48c.sasf	48°C 321°K Dn=13029 (0x32E5)	0 orb/1 pix
16		(GRS cmd id 2840)	DA05	55813	c01grs_mr_temp_a_use_seq_29b.sasf		0 orb/1 pix
17		(GRS cmd id 2083)	DA06	55814	c01grs_mr_temp_a_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	0 orb/2 pix
18							
19	02-129/19:05:54	cn0282	C37	3127	c01grs_s27b_boom_deploy_1.bfl	Executed at Orbit 972, Pixel 102	
20		(GRS cmd id 2082)	DA01	55809	c01grs_mr_temp_a_dont_comp.sasf	Stops comparison	0 orb/0 pix
21		(GRS cmd id 2837)	DA02	55810	c01grs_os_temp_a_low_p50_0c.sasf	50°C 323°K Dn=13004 (0x32CC)	0 orb/1 pix
22		(GRS cmd id 2838)	DA03	55811	c01grs_os_temp_a_up_p49_8c.sasf	49.8°C 322.8°K Dn=13013 (0x32D5)	0 orb/1 pix
23		(GRS cmd id 2839)	DA04	55812	c01grs_mr_temp_a_low_p47c.sasf	47°C 320°K Dn=13074 (0x3312)	0 orb/1 pix
24		(GRS cmd id 2840)	DA05	55813	c01grs_mr_temp_a_use_seq_29b.sasf		0 orb/1 pix
25		(GRS cmd id 2083)	DA06	55814	c01grs_mr_temp_a_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	0 orb/2 pix
26							
27	02-075/19:08:55	cn0161	C37	3127	c01grs_s27b_auto_ramp_set_3.bfl	Executed at Orbit 316, Pixel 118	
28		(GRS cmd id 2050)	DA01	55809	c01grs_is_temp_a_dont_comp.sasf	Terminate the comparison	imm
29		(GRS cmd id 2067)	DA02	55810	c01grs_is_temp_a_low_n130c.sasf	-130°C 143°K [Dn=4173] [(0x104D)]	imm
30		(GRS cmd id 2419)	DA03	55811	c01grs_is_temp_a_use_seq_13b.sasf	Set to sequence that will abort, set HV immediately to zero, and disable	imm
31		(GRS cmd id 2097)	DA04	55812	c01grs_el_fast_oor_a_ct_6.sasf		imm
32		(GRS cmd id 2099)	DA05	55813	c01grs_el_fast_upper_1f5c.sasf	[Dn=8028] [(0x1F5C)]	imm
33		(GRS cmd id 2421)	DA06	55814	c01grs_el_fast_use_seq_13b.sasf	Set to sequence that will abort, set HV immediately to zero, and disable	imm
34		(GRS cmd id 2019)	DA07	55815	c01grs_gam_enable_t_n129c.sasf	-129°C 144°K [Dn=4134] [(0x1026)]	imm
35		(GRS cmd id 2051)	DA08	55816	c01grs_is_temp_a_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	20
36		(GRS cmd id 2062)	DA09	55817	c01grs_el_fast_comp_greater.sasf		40
37		(GRS cmd id 1042)	DA0A	55818	c01grs_activate_sequence_42a.sasf	Set HV monitoring to 5 second interval using timer 2	60
38		(GRS cmd id 1122)	DA0B	55819	c01grs_activate_sequence_22b.sasf	Set gain to 0 seq_22_b_gamma_1_nominal	80
39		(GRS cmd id 1128)	DA0C	55820	c01grs_activate_sequence_28b.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	140
40		(GRS cmd id 2014)	DA0D	55821	c01grs_gam_hv_enable.sasf		43340
41		(GRS cmd id 1147)	DA0E	55822	c01grs_activate_sequence_47b.sasf		43360
42							
43							
44	02-074/19:43:02	cn0156	C37	3127	c01grs_s27b_auto_ramp_set_2.bfl	Executed at Orbit 304, Pixel 172	
45		(GRS cmd id 2050)	DA01	55809	c01grs_is_temp_a_dont_comp.sasf	Terminate the comparison	imm
46		(GRS cmd id 2067)	DA02	55810	c01grs_is_temp_a_low_n130c.sasf	-130°C 143°K [Dn=4173] [(0x104D)]	imm
47		(GRS cmd id 2419)	DA03	55811	c01grs_is_temp_a_use_seq_13b.sasf	Set to sequence that will abort, set HV immediately to zero, and disable	imm
48		(GRS cmd id 2097)	DA04	55812	c01grs_el_fast_oor_a_ct_6.sasf		imm
49		(GRS cmd id 2099)	DA05	55813	c01grs_el_fast_upper_1f5c.sasf	[Dn=8028] [(0x1F5C)]	imm
50		(GRS cmd id 2421)	DA06	55814	c01grs_el_fast_use_seq_13b.sasf	Set to sequence that will abort, set HV immediately to zero, and disable	imm
51		(GRS cmd id 2019)	DA07	55815	c01grs_gam_enable_t_n129c.sasf	-129°C 144°K [Dn=4134] [(0x1026)]	imm
52		(GRS cmd id 2051)	DA08	55816	c01grs_is_temp_a_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	20
53		(GRS cmd id 2062)	DA09	55817	c01grs_el_fast_comp_greater.sasf		40
54		(GRS cmd id 1042)	DA0A	55818	c01grs_activate_sequence_42a.sasf	Set HV monitoring to 5 second interval using timer 2	60
55		(GRS cmd id 2014)	DA0B	55819	c01grs_gam_hv_enable.sasf		80
56		(GRS cmd id 1122)	DA0C	55820	c01grs_activate_sequence_22b.sasf	Set gain to 0 seq_22_b_gamma_1_nominal	100

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56		(GRS cmd id 1128)	DA0D	55821	c01grs_activate_sequence_28b.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	160
57		(GRS cmd id 1147)	DA0E	55822	c01grs_activate_sequence_47b.sasf		520
58							
59	02-043/03:35:46	cn0123	C37	3127	c01grs_s27b_auto_ramp_set_1.bfl	Executed at Orbit 4, Pixel 8017	
60		(GRS cmd id 2050)	DA01	55809	c01grs_is_temp_a_dont_comp.sasf	Terminate the comparison	imm
61		(GRS cmd id 1042)	DA02	55810	c01grs_activate_sequence_42a.sasf	Set HV monitoring to 5 second interval using timer 2	imm
62		(GRS cmd id 2419)	DA03	55811	c01grs_is_temp_a_use_seq_13b.sasf	Set to sequence that will abort, set HV immediately to zero, and disable	imm
63		(GRS cmd id 2421)	DA04	55812	c01grs_el_fast_use_seq_13b.sasf	Set to sequence that will abort, set HV immediately to zero, and disable	imm
64		(GRS cmd id 2097)	DA05	55813	c01grs_el_fast_oor_a_ct_6.sasf		imm
65		(GRS cmd id 2067)	DA06	55814	c01grs_is_temp_a_low_n130c.sasf	[Dn 4173] [0x104D]	imm
66		(GRS cmd id 2099)	DA07	55815	c01grs_el_fast_upper_1f5c.sasf	(8028 dec)	imm
67		(GRS cmd id 2019)	DA08	55816	c01grs_gam_enable_t_n129c.sasf	[Dn 4134] [0x1026]	imm
68		(GRS cmd id 2051)	DA09	55817	c01grs_is_temp_a_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	20
69		(GRS cmd id 2062)	DA0A	55818	c01grs_el_fast_comp_greater.sasf		40
70		(GRS cmd id 2014)	DA0B	55819	c01grs_gam_hv_enable.sasf		60
71		(GRS cmd id 1128)	DA0C	55820	c01grs_activate_sequence_28b.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	80
72		(GRS cmd id 1147)	DA0D	55821	c01grs_activate_sequence_47b.sasf		380
73							
74	n/a	n/a			c00grs_seq_27_b_gam_hk1_dl.bfl	Pre-launch load	
75			DA01	55809	set downlink rate - Gamma Electric Slow - 60		imm
76			DA02	55810	set downlink rate - Gamma +12V Rail Voltage - 60		imm
77			DA03	55811	set downlink rate - Gamma +12V Rail Current - 60		imm
78			DA04	55812	set downlink rate - Gamma -12V Rail Voltage - 60		imm
79			DA05	55813	set downlink rate - Gamma -12V Rail Current - 60		imm
80			DA06	55814	set downlink rate - Gamma +5V Digital Rail Voltage - 60		imm
81			DA07	55815	set downlink rate - Gamma +5V Digital Rail Current - 60		imm
82			DA08	55816	set downlink rate - Gamma +12V HVBS Rail Current - 60		imm
83			DA09	55817	set downlink rate - Gamma -12V HVBS Rail Current - 60		imm
84			DA0A	55818	set downlink rate - Gamma +12V Pulse Amp Current - 60		imm
85			DA0B	55819	set downlink rate - Gamma -12V Pulse Amp Current - 60		imm
86			DA0C	55820	set downlink rate - Gamma VDD Direct Monitor - 60		imm