

Line #	Spacecraft DATE/TIME	S/C Cmd #	HEX ID#	DEC ID #	GRS Deployed Mapping Activities Run Commands	Notes	Cumulative Seconds
1	03-029/16:43:04	cn0615	C34	3124	c01grs_s24b_warm_anneal3_4.bfl	Executed at Orbit 994, Pixel 126	imm
2		(GRS cmd id 2082)	D701	55041	c01grs_mr_temp_a_dont_comp.sasf	Terminate the comparison	imm
3		(GRS cmd id 1309)	D702	55042	c01grs_ann_pwr_o_mr_sec_off.sasf		imm
4		(GRS cmd id 1324)	D703	55043	c01grs_op_heater_on.sasf		imm
5		(GRS cmd id 2357)	D704	55044	c01grs_os_temp_a_oor_a_ct_2.sasf	Requires two consecutive out-of-range values.	imm
6		(GRS cmd id 2952)	D705	55045	c01grs_os_temp_a_low_p0_0c.sasf	0°C 273°K Dn=15187 (0x3B53)	imm
7		(GRS cmd id 2953)	D706	55046	c01grs_os_temp_a_up_n0_2c.sasf	-0.2°C 272.8°K Dn=15195 (0x3B5B)	imm
8		(GRS cmd id 2423)	D707	55047	c01grs_os_temp_a_low_p40_0c.sasf	40°C 313°K Dn=13444 (0x3484)	1 orb/0 pix
9		(GRS cmd id 2424)	D708	55048	c01grs_os_temp_a_up_p39_8c.sasf	39.8°C 312.8°K Dn=13453 (0x348D)	1 orb/0 pix
10		(GRS cmd id 2916)	D709	55049	c01grs_os_temp_a_low_p82_0c.sasf	82°C 355°K Dn=11589 (0x2D45)	2 orb/0 pix
11		(GRS cmd id 2917)	D70A	55050	c01grs_os_temp_a_up_p81_8c.sasf	81.8°C 354.8°K Dn=11598 (0x2D4E)	2 orb/0 pix
12		(GRS cmd id 2904)	D70B	55051	c01grs_os_temp_b_low_p50_0c.sasf	50°C 323°K Dn=12935 (0x3287)	2 orb/1 pix
13		(GRS cmd id 2905)	D70C	55052	c01grs_os_temp_b_use_seq_26b.sasf	To continue the MR/OS temperature increases	2 orb/1 pix
14		(GRS cmd id 2028)	D70D	55053	c01grs_os_temp_b_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	2 orb/2 pix
15		(GRS cmd id 1046)	D70E	55054	c01grs_activate_sequence_46a.sasf	Start OS secondary heater control using OS-A sensor (turns heater on)	2 orb/3 pix
16		(GRS cmd id 1041)	D70F	55055	c01grs_activate_sequence_41a.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	2 orb/4 pix
17							
18	02-318/19:29:37	cn0537	C34	3124	c01grs_s24b_warm_anneal3_3.bfl	Executed at Orbit xxxx, Pixel xxx	imm
19		(GRS cmd id 2082)	D701	55041	c01grs_mr_temp_a_dont_comp.sasf	Terminate the comparison	imm
20		(GRS cmd id 1309)	D702	55042	c01grs_ann_pwr_o_mr_sec_off.sasf		imm
21		(GRS cmd id 1324)	D703	55043	c01grs_op_heater_on.sasf		imm
22		(GRS cmd id 2357)	D704	55044	c01grs_os_temp_a_oor_a_ct_2.sasf	Requires two consecutive out-of-range values.	imm
23		(GRS cmd id 2916)	D705	55045	c01grs_os_temp_a_low_p82_0c.sasf	82°C 355°K Dn=11589 (0x2D45)	imm
24		(GRS cmd id 2917)	D706	55046	c01grs_os_temp_a_up_p81_8c.sasf	81.8°C 354.8°K Dn=11598 (0x2D4E)	imm
25		(GRS cmd id 2884)	D707	55047	c01grs_mr_temp_a_low_p50c.sasf	50°C 323°K Dn=12941 (0x328D)	imm
26		(GRS cmd id 2885)	D708	55048	c01grs_mr_temp_a_use_seq_26b.sasf	To start the OS heater control and switch MR heaters	imm
27		(GRS cmd id 2083)	D709	55049	c01grs_mr_temp_a_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	5
28		(GRS cmd id 1046)	D70A	55050	c01grs_activate_sequence_46a.sasf	Start OS secondary heater control using OS-A sensor (turns heater on)	25
29		(GRS cmd id 1041)	D70B	55051	c01grs_activate_sequence_41a.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	85
30							
31	02-143/15:45:05	cn0340	C34	3124	c01grs_s24b_warm_anneal3_2.bfl	Executed at Orbit xxxx, Pixel xxx	imm
32		(GRS cmd id 2082)	D701	55041	c01grs_mr_temp_a_dont_comp.sasf	Terminate the comparison	imm
33		(GRS cmd id 1309)	D702	55042	c01grs_ann_pwr_o_mr_sec_off.sasf		imm
34		(GRS cmd id 1324)	D703	55043	c01grs_op_heater_on.sasf		imm
35		(GRS cmd id 2357)	D704	55044	c01grs_os_temp_a_oor_a_ct_2.sasf	Requires two consecutive out-of-range values.	imm
36		(GRS cmd id tbd)	D705	55045	c01grs_os_temp_a_low_p82_0c.sasf	82°C 355°K Dn=11589 (0x2D45)	imm
37		(GRS cmd id tbd)	D706	55046	c01grs_os_temp_a_up_p81_8c.sasf	81.8°C 354.8°K Dn=11598 (0x2D4E)	imm
38		(GRS cmd id tbd)	D707	55047	c01grs_is_temp_b_low_p25_0c.sasf	25°C 298°K Dn=14079 (0x36FF)	5
39		(GRS cmd id 2774)	D708	55048	c01grs_is_temp_b_use_seq_28b.sasf		5
40		(GRS cmd id 2470)	D709	55049	c01grs_is_temp_b_comp_less.sasf	Counterintuitive - compares Dn value (Dn decreases as T increases)	10
41		(GRS cmd id 1046)	D70A	55050	c01grs_activate_sequence_46a.sasf	Start OS secondary heater control using OS-A sensor (turns heater on)	15
42		(GRS cmd id 1041)	D70B	55051	c01grs_activate_sequence_41a.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	75
43							
44	02-116/12:43:33	cn0242	C34	3124	c01grs_s24b_warm_anneal3_1.bfl	Executed at Orbit xxxx, Pixel xxx	imm
45		(GRS cmd id 2082)	D701	55041	c01grs_mr_temp_a_dont_comp.sasf	Terminate the comparison	imm
46		(GRS cmd id 1309)	D702	55042	c01grs_ann_pwr_o_mr_sec_off.sasf		imm
47		(GRS cmd id 1324)	D703	55043	c01grs_op_heater_on.sasf		imm
48		(GRS cmd id 2357)	D704	55044	c01grs_os_temp_a_oor_a_ct_2.sasf	Requires two consecutive out-of-range values.	imm
49		(GRS cmd id 2408)	D705	55045	c01grs_os_temp_a_low_p75c.sasf	75°C 348°K Dn=11900 (0x2E7C)	imm
50		(GRS cmd id 2409)	D706	55046	c01grs_os_temp_a_up_p74_8c.sasf	74.8°C 347.8°K Dn=11908 (0x2E84)	imm
51		(GRS cmd id 1046)	D707	55047	c01grs_activate_sequence_46a.sasf	Sequence 46a turns on OS sec heater, control using OS sensor A	5
52		(GRS cmd id 1125)	D708	55048	c01grs_activate_sequence_25b.sasf	Start GPA warm temperature check	65
53							
54	02-064/19:28:48	cn0142	C34	3124	c01grs_s24b_gamma_shutdown_1.bfl	Executed at Orbit 182, Pixel 312	imm
55		(GRS cmd id 2450)	D701	55041	c01grs_gpa_temp_dont_comp.sasf	Terminate the comparison	imm

Line #	Spacecraft DATE/TIME	S/C Cmd #	HEX ID#	DEC ID #	GRS Deployed Mapping Activities		Cumulative Seconds
					Run Commands	Notes	
56		(GRS cmd id 2004)	D702	55042	c01grs_gam_instr_collect_off.sasf		imm
57		(GRS cmd id 2002)	D703	55043	c01grs_gam_instr_power_off.sasf	(GRS Instr. 2)	20
58		(GRS cmd id 1128)	D704	55044	c01grs_activate_sequence_28b.sasf	Dumps fpga_a, fpga_b, analog, parameter, and data counts	80
59							
60	n/a		n/a		c00grs_seq_24_b_gamma_3_nom.bfl	Pre-launch load	imm
61			D701	55041	c01grs_gam_gain_92.sasf		imm
62			D702	55042	c01grs_gam_lld_6.sasf		imm
63			D703	55043	c01grs_gam_l1_13.sasf		imm
64			D704	55044	c01grs_gam_l2_20.sasf		imm
65			D705	55045	c01grs_gam_l3_30.sasf		imm
66			D706	55046	c01grs_gam_uld_205.sasf		imm
67			D707	55047	c01grs_pulser_all_on.sasf		imm
68			D708	55048	c01grs_pulser_trans_enable.sasf		imm
69			D709	55049	c01grs_pulser_combine_off.sasf		imm
70			D70A	55050	set pulser bin BIN1 to 200		imm
71			D70B	55051	set pulser bin BIN2 to 5600		imm
72			D70C	55052	set pulser bin BIN3 to 15200		imm
73			D70D	55053	c01grs_activate_sequence_10a.sasf		imm