

| Line # | Spacecraft DATE/TIME | S/C Cmd # | HEX ID# | DEC ID # | GRS Deployed Mapping Activities Run Commands | Notes | Cumulative Seconds |
|--------|----------------------|-------------------|---------|----------|--|--|--------------------|
| 1 | 03-323/22:39:38 | cn0841 | C3F | 3135 | c01grs_s35b_open_prep3_1.bfl | Executed at Orbit 159, Pixel 337 | |
| 2 | | (GRS cmd id 2488) | E201 | 57857 | c01grs_op_h_mr_a_oor_a_ct_2.sasf | Requires two consecutive out-of-range values | imm |
| 3 | | (GRS cmd id 2438) | E202 | 57858 | c01grs_op_h_mr_a_low_n77c.sasf | -77°C 196°K Dn=2024 (0x7E8) | imm |
| 4 | | (GRS cmd id 2428) | E203 | 57859 | c01grs_op_h_mr_a_up_n78c.sasf | -78°C 195°K Dn=2065 (0x811) | imm |
| 5 | | (GRS cmd id 2458) | E204 | 57860 | c01grs_gpa3_temp_oor_a_ct_2.sasf | Requires two consecutive out-of-range values | imm |
| 6 | | (GRS cmd id 2988) | E205 | 57861 | c01grs_gpa_temp_low_n_22_28_c.sasf | -22.28°C 250.72°K [Dn=5869] [(0x16ED)] | imm |
| 7 | | (GRS cmd id 2989) | E206 | 57862 | c01grs_gpa_temp_up_n_22_30_c.sasf | -22.3°C 250.7°K [Dn=5870] [(0x16EE)] | imm |
| 8 | | (GRS cmd id 2468) | E207 | 57863 | c01grs_is_temp_b_oor_a_ct_3.sasf | Requires three consecutive out-of-range values. | imm |
| 9 | | (GRS cmd id 2485) | E208 | 57864 | c01grs_is_temp_b_up_n128c.sasf | -128°C 145°K Dn=4095 (0xFF) | imm |
| 10 | | (GRS cmd id 2773) | E209 | 57865 | c01grs_is_temp_b_use_seq_41b.sasf | Step down the temperature setpoints for the OS heater | imm |
| 11 | | | | | | | |
| 12 | 02-170/18:04:07 | cn0379 | C3F | 3135 | c01grs_s35b_ceb_htr_off_1.bfl | Executed at Orbit 1443, Pixel 303 | |
| 13 | | (GRS cmd id 1327) | E201 | 57857 | c01grs_ceb_heater_off.sasf | | imm |
| 14 | | (GRS cmd id tbd) | E202 | 57858 | c01grs_ceb_hvbs_use_seq_36b.sasf | Turns CEB heater on | imm |
| 15 | | (GRS cmd id tbd) | E203 | 57859 | c01grs_ceb_hvbs_comp_great.sasf | Counterintuitive - compares Dn value (Dn decreases as T increases) | imm |
| 16 | | | | | | | |
| 17 | 02-144/17:11:45 | cn0343 | C3F | 3135 | c01grs_s35b_boom_deploy_2.bfl | Executed at Orbit 1153, Pixel 196 | |
| 18 | | (GRS cmd id 2469) | E201 | 57857 | c01grs_is_temp_b_dont_comp.sasf | Stops comparison | 0 orb/0 pix |
| 19 | | (GRS cmd id 1308) | E202 | 57858 | c01grs_ann_pwr_o_mr_sec_on.sasf | | 0 orb/1 pix |
| 20 | | (GRS cmd id tbd) | E203 | 57859 | c01grs_mr_temp_b_low_p82_0c.sasf | 82°C 355°K Dn=11634 (0x2D72) | 0 orb/1 pix |
| 21 | | (GRS cmd id tbd) | E204 | 57860 | c01grs_mr_temp_b_up_p81_0c.sasf | 81°C 354°K Dn=11678 (0x2D9E) | 0 orb/1 pix |
| 22 | | (GRS cmd id tbd) | E205 | 57861 | c01grs_os_temp_a_low_p82_0c.sasf | 82°C 355°K Dn=11589 (0x2D45) | 0 orb/1 pix |
| 23 | | (GRS cmd id tbd) | E206 | 57862 | c01grs_os_temp_a_up_p81_8c.sasf | 81.8°C 354.8°K Dn=11598 (0x2D4E) | 0 orb/1 pix |
| 24 | | (GRS cmd id tbd) | E207 | 57863 | c01grs_is_temp_b_low_p25_0c.sasf | 25°C 298°K Dn=14079 (0x36FF) | 0 orb/1 pix |
| 25 | | (GRS cmd id 2477) | E208 | 57864 | c01grs_is_temp_b_use_seq_38b.sasf | | 0 orb/1 pix |
| 26 | | (GRS cmd id 2470) | E209 | 57865 | c01grs_is_temp_b_comp_less.sasf | Counterintuitive - compares Dn value (Dn decreases as T increases) | 0 orb/2 pix |
| 27 | | | | | | | |
| 28 | 02-129/18:36:15 | cn0268 | C3F | 3135 | c01grs_s35b_boom_deploy_1.bfl | Executed at Orbit 972, Pixel 12 | |
| 29 | | (GRS cmd id 2469) | E201 | 57857 | c01grs_is_temp_b_dont_comp.sasf | Stops comparison | 0 orb/0 pix |
| 30 | | (GRS cmd id 1308) | E202 | 57858 | c01grs_ann_pwr_o_mr_sec_on.sasf | | 0 orb/1 pix |
| 31 | | (GRS cmd id 2845) | E203 | 57859 | c01grs_mr_temp_b_low_p65c.sasf | 65°C 338°K Dn=12377 (0x3059) | 0 orb/1 pix |
| 32 | | (GRS cmd id 2846) | E204 | 57860 | c01grs_mr_temp_b_up_p64c.sasf | 64°C 337°K Dn=12421 (0x3085) | 0 orb/1 pix |
| 33 | | (GRS cmd id 2847) | E205 | 57861 | c01grs_os_temp_a_low_p38_0c.sasf | 38°C 311°K Dn=13532 (0x34DC) | 0 orb/1 pix |
| 34 | | (GRS cmd id 2848) | E206 | 57862 | c01grs_os_temp_a_up_p37_8c.sasf | 37.8°C 310.8°K Dn=13541 (0x34E5) | 0 orb/1 pix |
| 35 | | (GRS cmd id 2849) | E207 | 57863 | c01grs_mr_temp_a_low_p38c.sasf | 38°C 311°K Dn=13471 (0x349F) | 0 orb/1 pix |
| 36 | | (GRS cmd id 2850) | E208 | 57864 | c01grs_mr_temp_a_use_seq_36b.sasf | | 0 orb/1 pix |
| 37 | | (GRS cmd id 2083) | E209 | 57865 | c01grs_mr_temp_a_comp_less.sasf | Counterintuitive - compares Dn value (Dn decreases as T increases) | 0 orb/2 pix |
| 38 | | | | | | | |
| 39 | 02-064/19:49:39 | cn0144 | C3F | 3135 | c01grs_s35b_os_step1_1.bfl | Executed at Orbit 183, Pixel 15 | |
| 40 | | (GRS cmd id 2464) | E201 | 57857 | c01grs_is_temp_b_low_n153c.sasf | -153°C 120°K [Dn=5058] [0x13C2] | imm |
| 41 | | (GRS cmd id 2477) | E202 | 57858 | c01grs_is_temp_b_use_seq_38b.sasf | Start warm anneal | imm |
| 42 | | (GRS cmd id 2470) | E203 | 57859 | c01grs_is_temp_b_comp_less.sasf | Counterintuitive - compares Dn value (Dn decreases as T increases) | 5 |
| 43 | | (GRS cmd id 1128) | E204 | 57860 | c01grs_activate_sequence_28b.sasf | Dumps fpga_a, fpga_b, analog, parameter, and data counts | 430 |
| 44 | | | | | | | |
| 45 | n/a | n/a | | | c00grs_seq_35_b_ann_os_pr_on.bfl | Pre-launch load | |
| 46 | | | E201 | 57857 | c01grs_os_temp_a_comp_less.sasf | Counterintuitive - compares Dn value (Dn decreases as T increases) | imm |
| 47 | | | E202 | 57858 | c01grs_os_temp_a_use_seq_36b.sasf | | imm |
| 48 | | | E203 | 57859 | c01grs_ann_pwr_o_os_pri_on.sasf | | imm |