

XRT Timeline to be uploaded on 2008/07/31

Period: 2008/07/31 10:23:00 - 2008/08/05 10:14:00

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Normal mode

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| XOB #1576: Polar Plume - Al/Mesh, Al/Poly, C/Poly - 512x512 -10min cadence-long exposure | | | | | | | | | | | | |
|---|-------------------------|-------|------|-------|-------|-----|--|----------------------|-------|------------|----------|---------|
| Term | Pointing (x, y) | | | | | | Comment | | | | | |
| 07/31 11:05:30 - 07/31 17:57:24 | Fixed (0.0, 860.0) | | | | | | IBIS for magntoacoustic wave | | | | | |
| 08/01 05:54:50 - 08/01 07:50:00 | Fixed (0.0, 900.0) | | | | | | Polar plumes by Sterling | | | | | |
| 08/01 08:32:20 - 08/01 09:30:00 | Fixed (-275.0, -735.0) | | | | | | PSF study during eclipse | | | | | |
| 08/01 12:20:00 - 08/01 17:41:54 | Fixed (0.0, 900.0) | | | | | | Polar plumes by Sterling & Scattered-light study by Kano | | | | | |
| PROG= 20 Inf.-time(s) | | | | | | | | | | | | |
| └─ Subr= 1 1-time(s) 600.0sec | | | | | | | | | | | | |
| └─ Seqn= 88 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 16.0s | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 32.0s | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |
| C-poly/Open | thin-Be/Open | close | Safe | Norm | 45.2s | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

| XOB #159F: Synoptic Q98 2x2 - Al/poly(512/5795) + Dark cal(512 Q98) + Ti-poly(723/11571) + G-band(16) | | | | | | | | | | | | |
|--|-------------------|-------|------|-------|-------|-----|--------------------------------|------------------------|-------|------------|----------|--------|
| Term | Pointing (x, y) | | | | | | Comment | | | | | |
| 07/31 17:59:30 - 08/01 00:26:24 | Fixed (0.0, 0.0) | | | | | | synoptic, shifted -2.5 min | | | | | |
| 08/01 10:05:00 - 08/01 10:12:54 | Fixed (0.0, 0.0) | | | | | | Coordinated obs. with Koutchmy | | | | | |
| 08/01 17:44:00 - 08/02 00:14:54 | Fixed (0.0, 0.0) | | | | | | synoptic, shifted -18.0 min | | | | | |
| PROG= 08 1-time(s) | | | | | | | | | | | | |
| └─ Subr= 1 1-time(s) 12.0sec | | | | | | | | | | | | |
| └─ Seqn= 39 1-time(s) 4.0sec | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/thick-Al | close | Safe | Norm | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| └─ Seqn= 72 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Dark | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| └─ Seqn= 60 1-time(s) 4.0sec | | | | | | | | | | | | |
| Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 707ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 11.3s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| └─ Seqn= 14 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 16ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

| XOB #15A0: Synoptic Q98 2x2 - Al/mesh(512/5795) + Dark cal(512 Q98) + Ti-poly(723/11571) + G-band(16) | | | | | | | | | | | | |
|--|-------------------|-------|------|-------|-------|-----|-----------------------------|------------------------|-------|------------|----------|--------|
| Term | Pointing (x, y) | | | | | | Comment | | | | | |
| 08/01 05:44:30 - 08/01 05:52:24 | Fixed (0.0, 0.0) | | | | | | synoptic, shifted -17.5 min | | | | | |
| 08/02 06:02:00 - 08/02 06:09:54 | Fixed (0.0, 0.0) | | | | | | synoptic | | | | | |
| PROG= 04 1-time(s) | | | | | | | | | | | | |
| └─ Subr= 1 1-time(s) 12.0sec | | | | | | | | | | | | |
| └─ Seqn= 10 1-time(s) 4.0sec | | | | | | | | | | | | |
| Open/Al-mesh | Open/Ti-poly | close | Safe | Norm | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Al-mesh | Open/Ti-poly | close | Safe | Norm | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| └─ Seqn= 72 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Dark | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| └─ Seqn= 60 1-time(s) 4.0sec | | | | | | | | | | | | |
| Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 707ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 11.3s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| └─ Seqn= 14 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 16ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

| XOB #15A1: Eclipse 1 Aug 2008 - Al/poly full Sun short/long | | | | | | | | | | | | |
|--|-------------------|-------|------|-------|-------|-----|--------------------------------|------------------------|-------|------------|----------|--------|
| Term | Pointing (x, y) | | | | | | Comment | | | | | |
| 08/01 10:15:20 - 08/01 10:24:54 | Fixed (0.0, 0.0) | | | | | | Coordinated obs. with Koutchmy | | | | | |
| PROG= 13 4-time(s) | | | | | | | | | | | | |
| └─ Subr= 1 1-time(s) 20.0sec | | | | | | | | | | | | |
| └─ Seqn= 99 1-time(s) 4.0sec | | | | | | | | | | | | |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Al-poly/Open | Al-poly/thick-Al | close | Safe | Norm | 5.66s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

| XOB #1577: Polar Plume - Al/Mesh, Al/Poly, C/Poly - 512x512 -3min cadence | | | | | | | | | | | | |
|--|---------------------|-------|------|------|-------|-----|--|----------------------|------|---|---|---------|
| Term | Pointing (x, y) | | | | | | Comment | | | | | |
| 08/01 10:27:20 - 08/01 11:53:30 | Fixed (0.0, 900.0) | | | | | | Polar plumes by Sterling & Scattered-light study by Kano | | | | | |
| PROG= 03 Inf.-time(s) | | | | | | | | | | | | |
| └─ Subr= 1 1-time(s) 180.0sec | | | | | | | | | | | | |
| └─ Seqn= 88 1-time(s) 2.0sec | | | | | | | | | | | | |
| Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 16.0s | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |
| Al-poly/Open | Al-poly/Open | close | Safe | Norm | 32.0s | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |
| C-poly/Open | thin-Be/Open | close | Safe | Norm | 45.2s | Obs | 1x1 | 512x512 (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |

XOB #15A2: Polar Plume - Al/Mesh, Al/Poly, C/Poly - 512x512 -3min cadence with scat.-light obs.

| Term | Pointing (x, y) | Comment |
|---------------------------------|---------------------|--|
| 08/01 11:54:00 - 08/01 12:17:34 | Fixed (0.0, 900.0) | Polar plumes by Sterling & Scattered-light study by Kano |

PROG= 15 1-time(s)

| Subr= | 1-time(s) | 120.0sec | | | | | | | | | | | |
|-----------------|---------------|----------|------|------|-------|-----|-----|-----------|--------------|------|---|---|---------|
| Subr= 1 | 1-time(s) | 120.0sec | | | | | | | | | | | |
| └─ Seqn= 63 | 1-time(s) | 120.0sec | | | | | | | | | | | |
| └─ Open/Al-mesh | Open/Ti-poly | close | Safe | Dark | 11.3s | Obs | 2x2 | 2048x1536 | (1024, 1280) | DPCM | 0 | 0 | 15.0sec |
| └─ Open/Al-mesh | Open/Ti-poly | close | Safe | Norm | 11.3s | Obs | 2x2 | 2048x1536 | (1024, 1280) | DPCM | 0 | 0 | 15.0sec |
| └─ Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 11.3s | Obs | 2x2 | 2048x1536 | (1024, 1280) | DPCM | 0 | 0 | 15.0sec |
| └─ Open/Al-mesh | Open/Ti-poly | close | Safe | Norm | 11.3s | Obs | 2x2 | 2048x1536 | (1024, 1280) | DPCM | 0 | 0 | 15.0sec |
| └─ Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 11.3s | Obs | 2x2 | 2048x1536 | (1024, 1280) | DPCM | 0 | 0 | 15.0sec |
| └─ Open/Al-mesh | Open/Ti-poly | close | Safe | Dark | 11.3s | Obs | 2x2 | 2048x1536 | (1024, 1280) | DPCM | 0 | 0 | 15.0sec |
| └─ Subr= 2 | 7-time(s) | 120.0sec | | | | | | | | | | | |
| └─ Seqn= 88 | 1-time(s) | 120.0sec | | | | | | | | | | | |
| └─ Open/Al-mesh | Open/Al-mesh | close | Safe | Norm | 16.0s | Obs | 1x1 | 512x512 | (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |
| └─ Al-poly/Open | Al-poly/Open | close | Safe | Norm | 32.0s | Obs | 1x1 | 512x512 | (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |
| └─ C-poly/Open | thin-Be/Open | close | Safe | Norm | 45.2s | Obs | 1x1 | 512x512 | (1024, 1024) | Q=90 | 0 | 0 | 36.0sec |
| └─ Subr= 3 | 2-time(s) | 120.0sec | | | | | | | | | | | |
| └─ Seqn= 24 | 1-time(s) | 120.0sec | | | | | | | | | | | |
| └─ Open/Al-mesh | Open/Al-mesh | close | Safe | Dark | 16.0s | Obs | 1x1 | 512x512 | (1024, 1024) | DPCM | 0 | 0 | 36.0sec |
| └─ Open/Al-mesh | Open/Al-mesh | close | Safe | Dark | 32.0s | Obs | 1x1 | 512x512 | (1024, 1024) | DPCM | 0 | 0 | 36.0sec |
| └─ Open/Al-mesh | Open/Al-mesh | close | Safe | Dark | 45.2s | Obs | 1x1 | 512x512 | (1024, 1024) | DPCM | 0 | 0 | 36.0sec |

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Flare mode

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NOT USED

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Active Region Search

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NOT USED

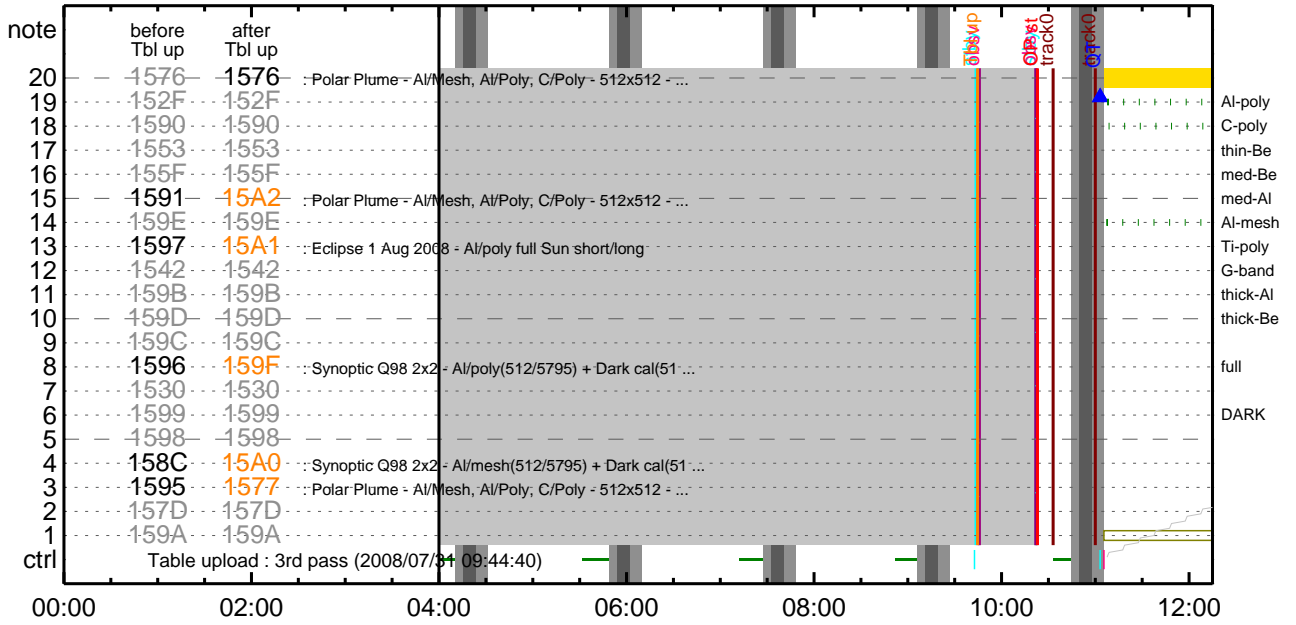
* * * * *

Flare Detection

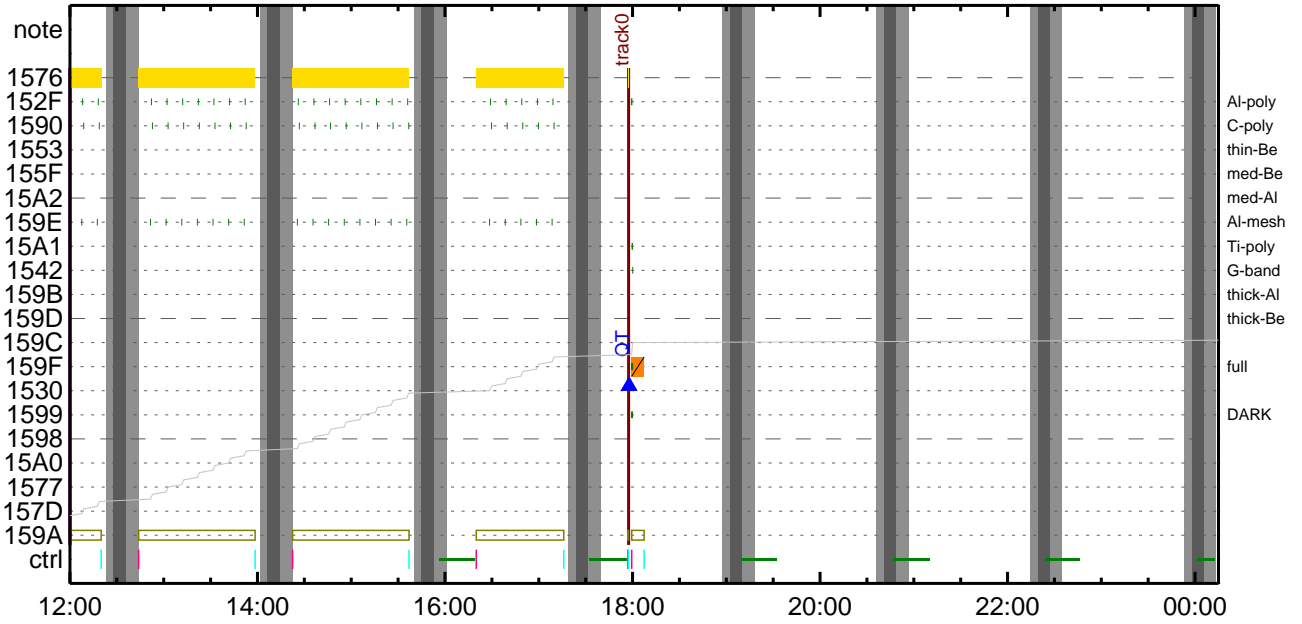
* * * * *

NOT USED

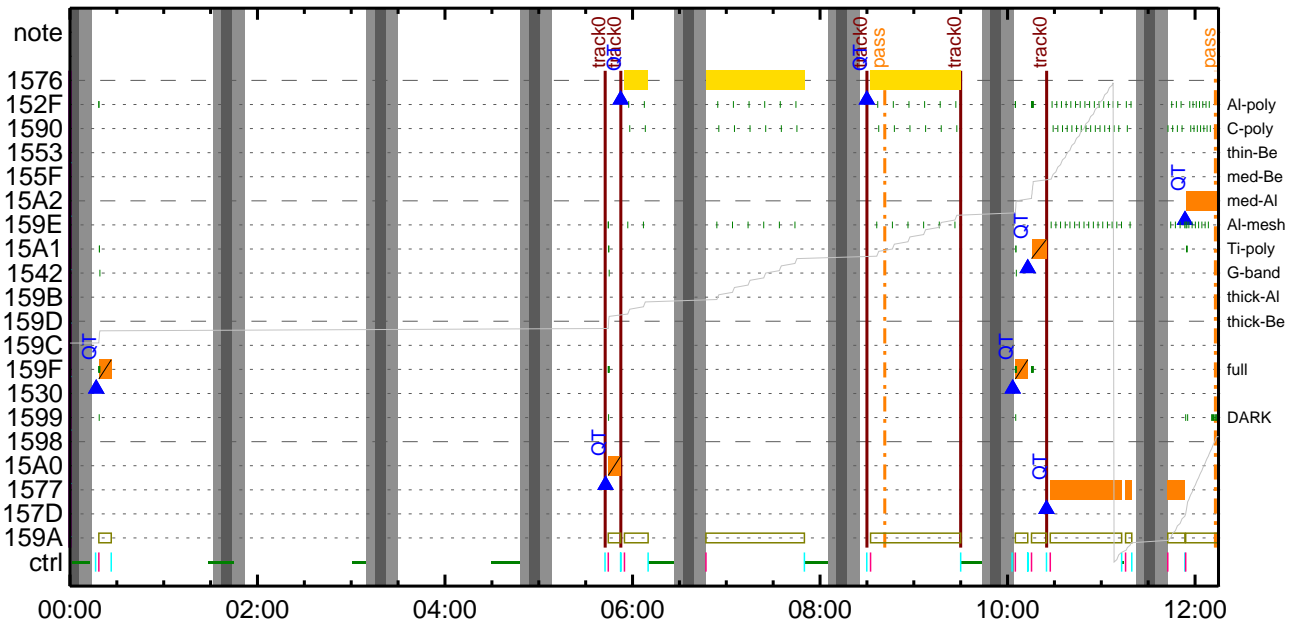
CMDI #0063 2008/07/31



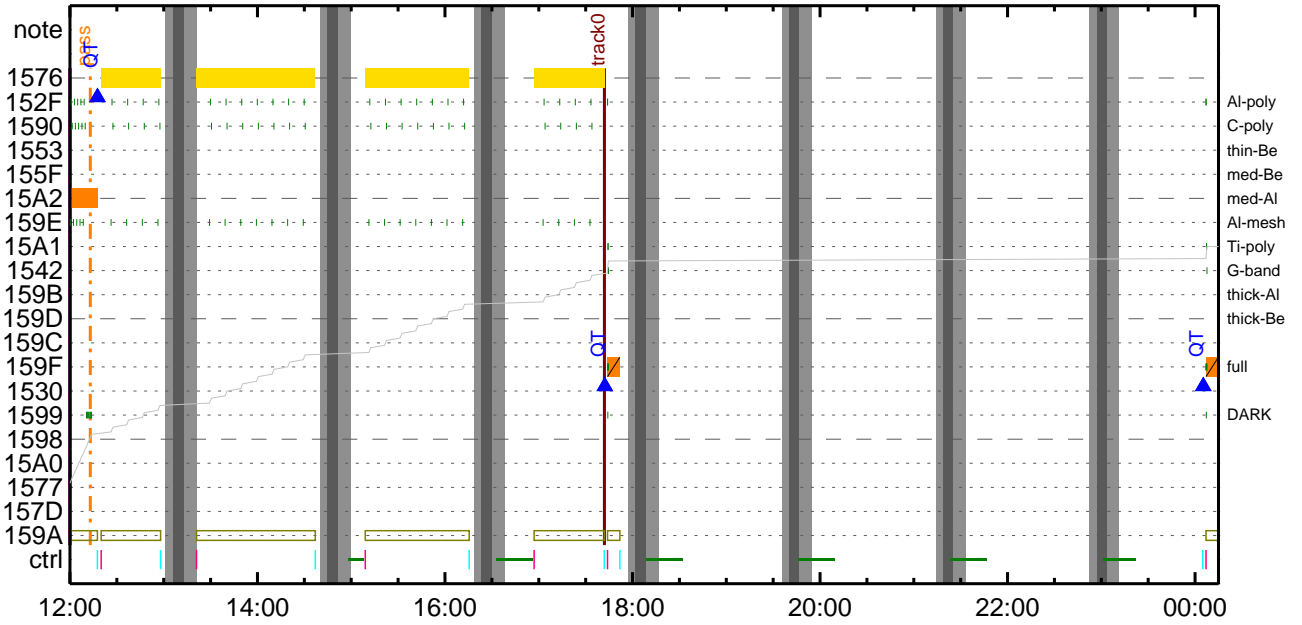
CMDI #0063 2008/07/31



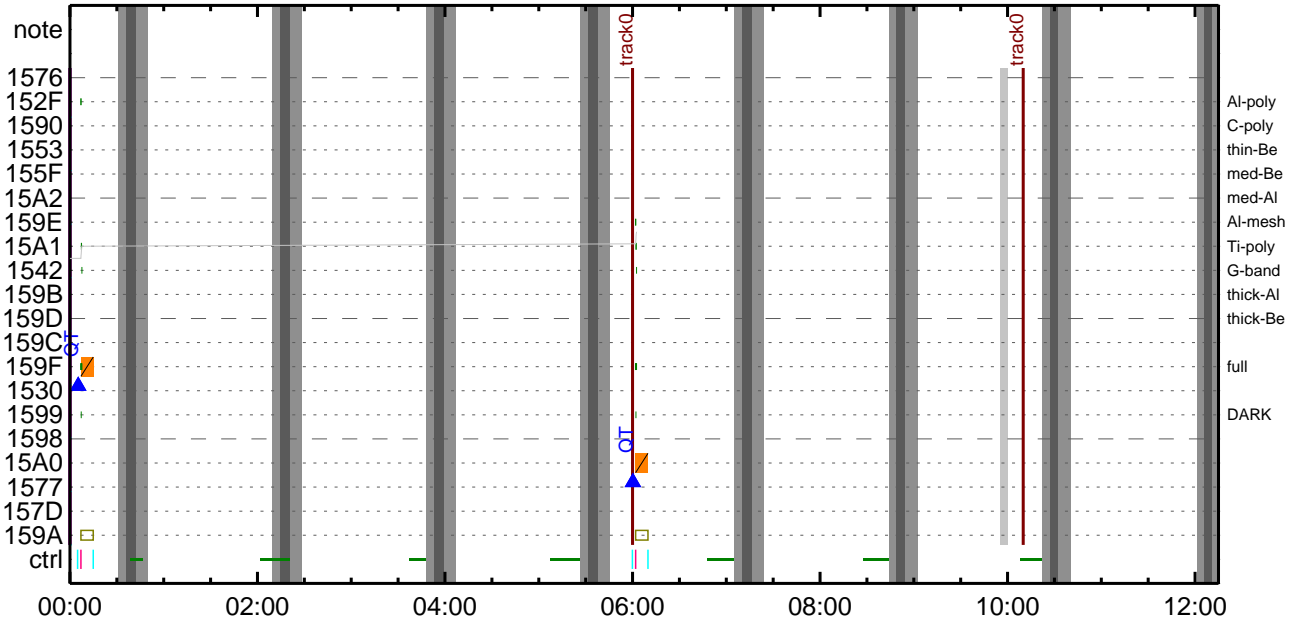
CMDI #0063 2008/08/01



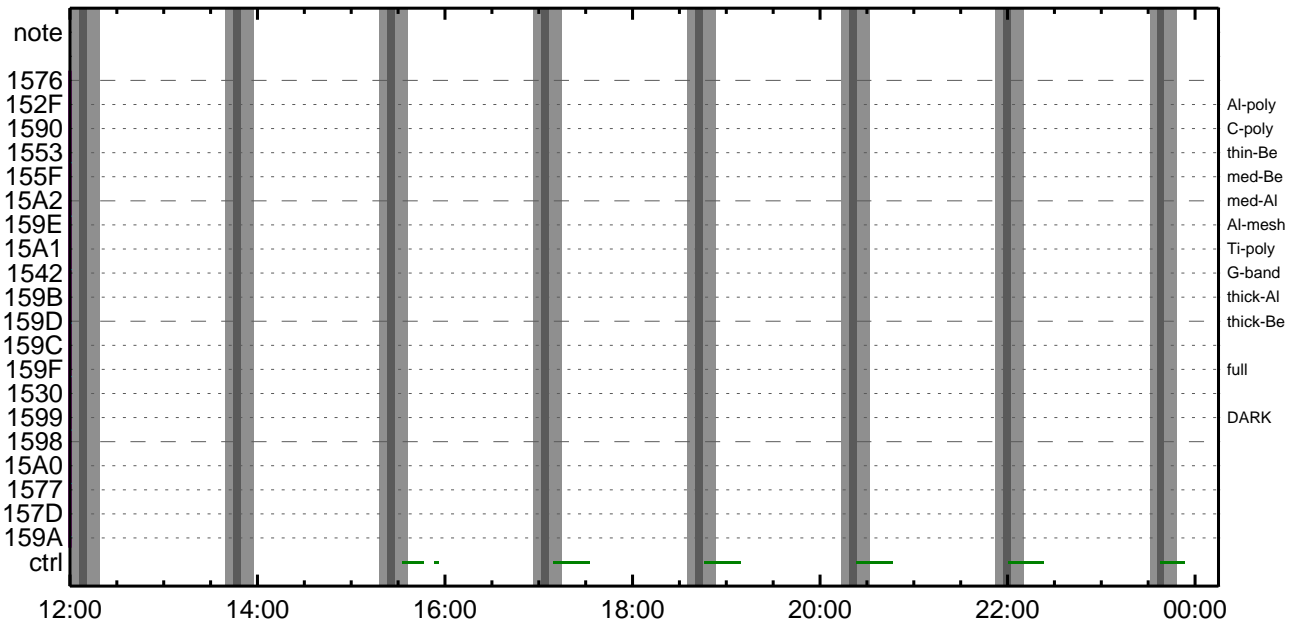
CMDI #0063 2008/08/01



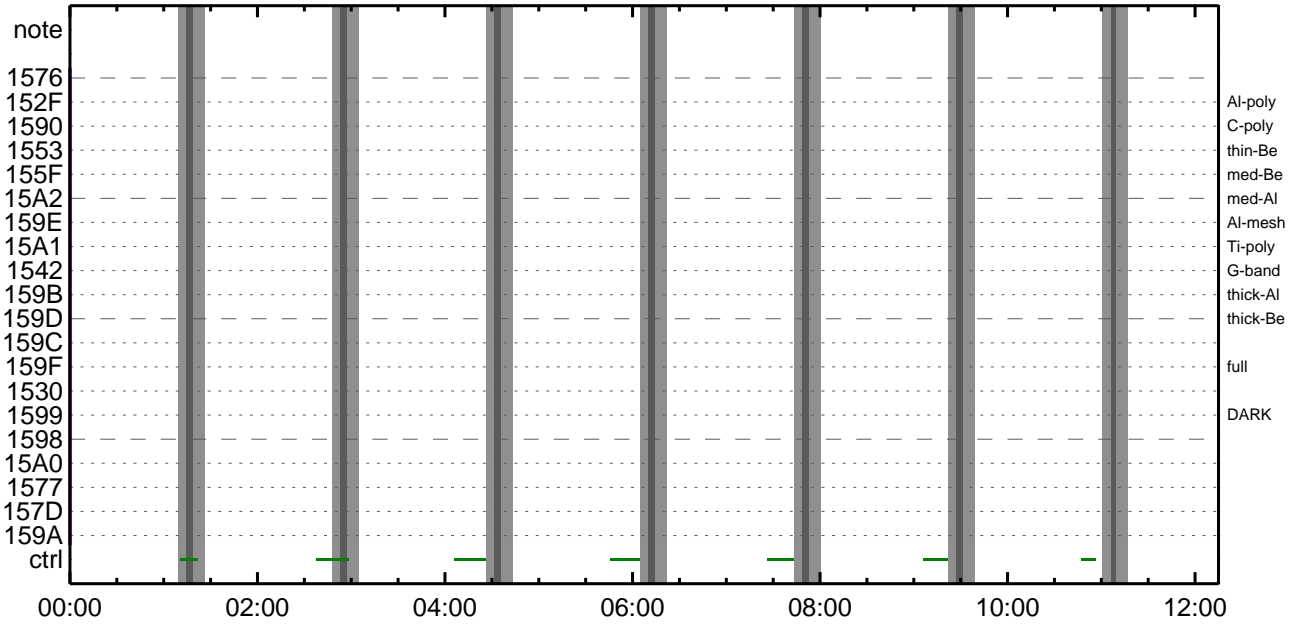
CMDI #0063 2008/08/02



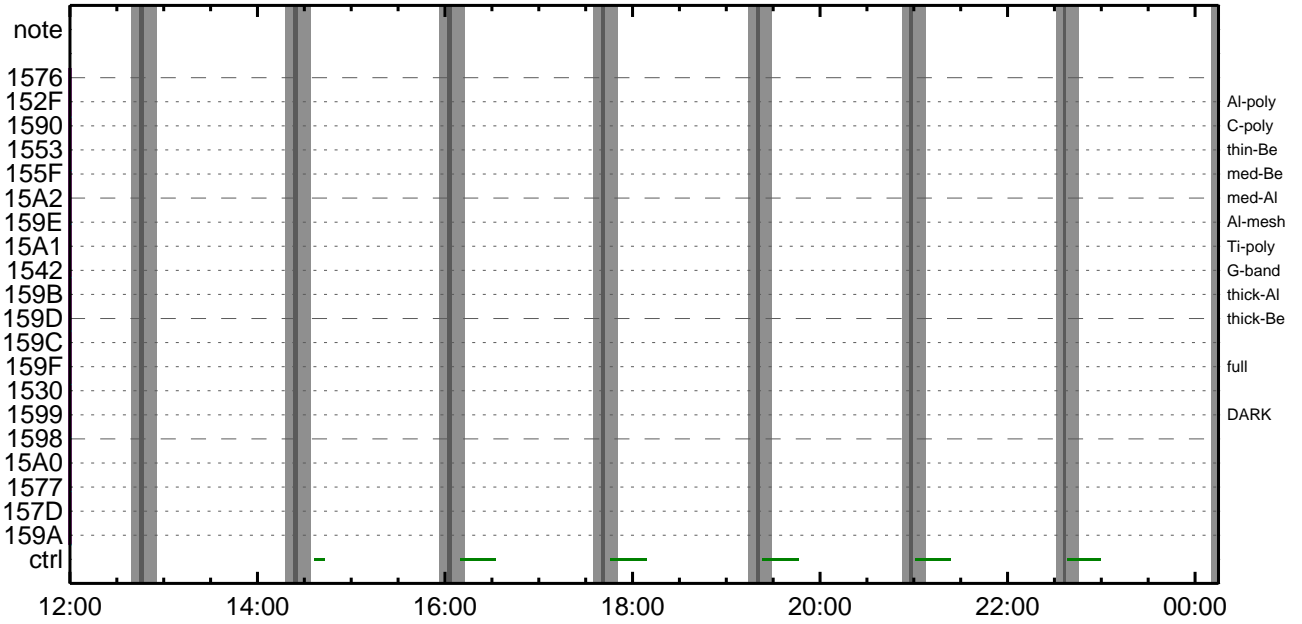
CMDI #0063 2008/08/02



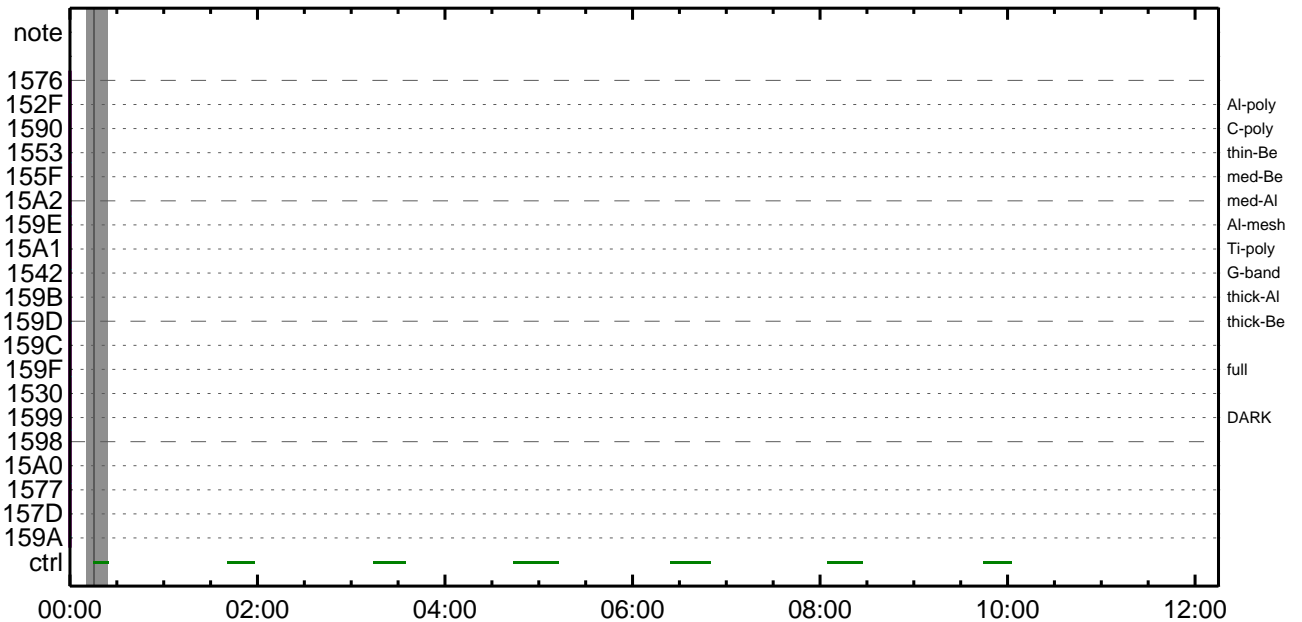
CMDI #0063 2008/08/03



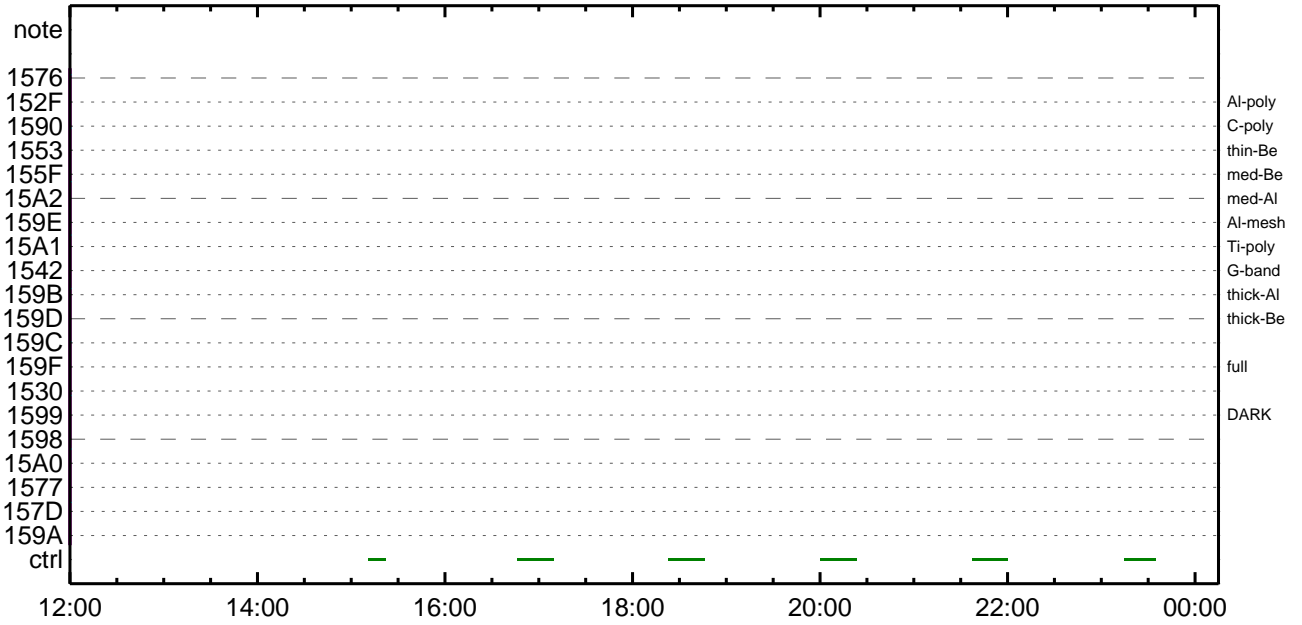
CMDI #0063 2008/08/03



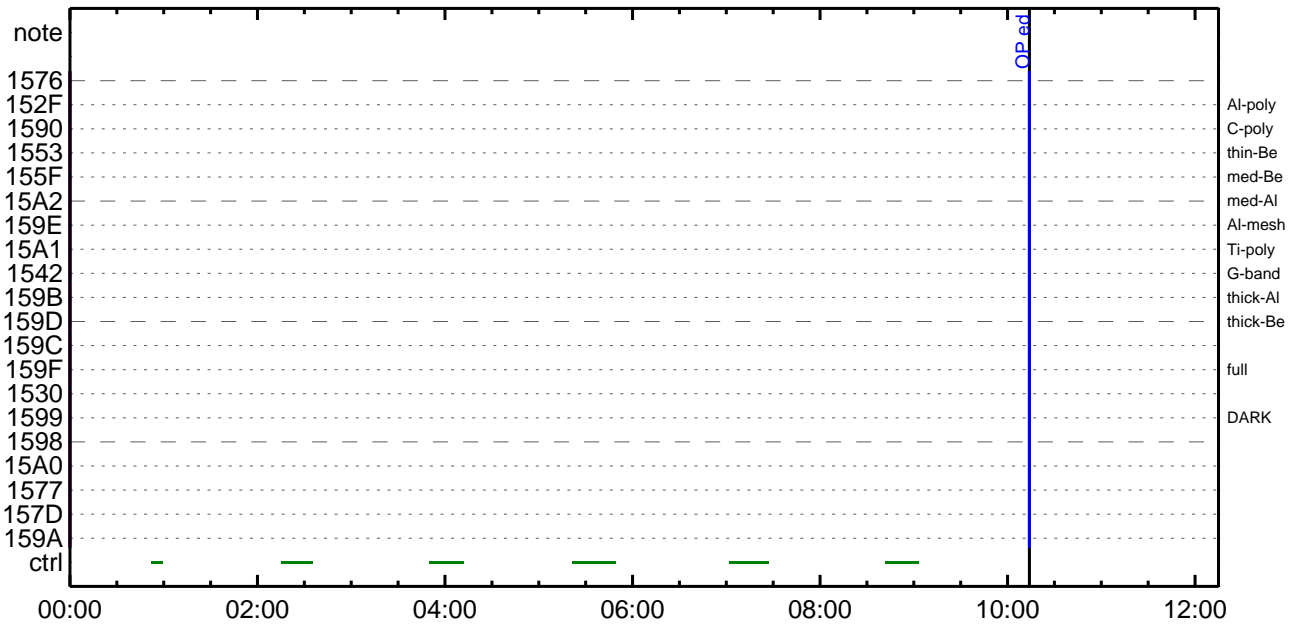
CMDI #0063 2008/08/04



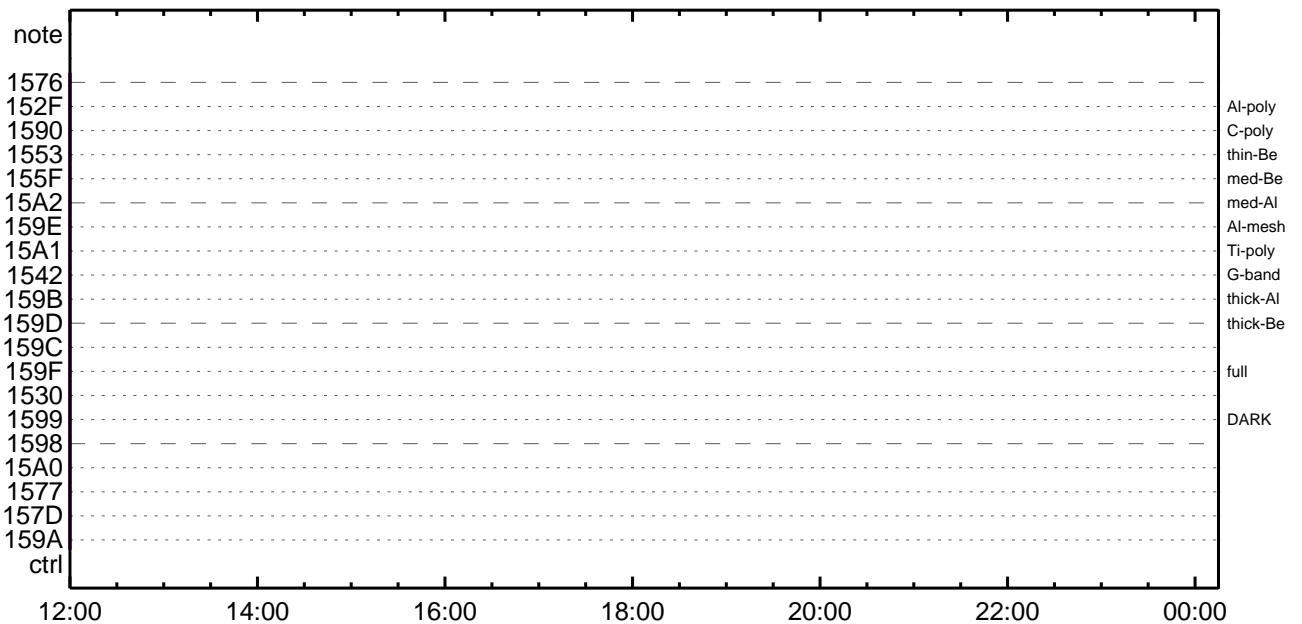
CMDI #0063 2008/08/04



CMDI #0063 2008/08/05



CMDI #0063 2008/08/05



(a) Spacecraft Operation Procedure (real-commands)

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main-039 2008-07-31 12:17:43 289 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÄYÿYÄY-¼Ä»Û;ã
0005 C.
0006 C. YÄYÿ;¼Y³YÿYÿÉÄ+ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Äí;ÈççðÄð•µ°È»Í×ÄÇçÍYÇYÄY×YÍ;¼YÿÈ;ÈÈÈ¼µ•ííÈ;ÈðÈ¼°ÇÖð•çç¼í¹ççÍ;çÄ®, ùñ¹ðÈððçÄ+ç®ð•ðÈðð³ðÈ;ç
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÄ+ççµ;ON
0016 C. *****
0017 C. ç" °ÄÄ, Í×ÈYðäLÒSððççÍ»p´Öðð¹íí, ð•; çÈÖÍ×ðÈXÄÖONÄ¹¹ÖðÈð¹ðÈðð³ðÈ;ç
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çç[HK1_XPA_ON/OFF] EQ ON
0025 C. çç[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç[HK1_XMOD_ON/OFF] EQ ON
0027 C. çç[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XYDÿYÿÉYÿÍYÄY-¾ÖÄÖð-°ÄÄÈð•ççç; ç°È²¼ðí°ÄÄ, ¼È¼ççð¼Ä¹Öð¹çç;ç
0030 C.
0031 . C. *****
0032 C. DR PT1 Äí¼í°ÄÄ,
0033 C. *****
0034 C. ç" RESTART;ÈPT1;Èð•ççç¼í¹ççÍ; ç°È²¼ðí°ÄÄ¹Öð»ð°; çDCBC-150ççÈÈçç;ç
0035 C.
0036 . C. ;ãPT1°ÄÄ, ³«»Í;ã
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ö, ;¼Ú)
0043 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ö, ;¼Ú)
0044 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö, ;¼Ú)
0045 C.
0046 . C. ;ãYçYÿYÿÈÄÙÄØ;ÈÄ•Ä°²öÈð;È, äðí°ÄÄ, °È³«;ã
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ö, ;¼Ú)
0050 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ö, ;¼Ú)
0051 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö, ;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°ÄÄ, ç-¼«È°ÄÄ»ðççç;ã; ç°È²¼ð¼Ä¹Ö¹çç;ç
0055 C. YçYÿYÿÈÄÙÄØðÄÄ•Ä°²öÈð-ççäçç¼í¹ççÍ°í»ð¹çççççÄÖðÄ;ç
0056 C.
0057 . C. *****
0058 C. DR PT2 Äí¼í°ÄÄ,
0059 C. *****
0060 C. ç" RESTART;ÈPT2;Èð•ççç¼í¹ççÍ; ç°È²¼ðí°ÄÄ¹Öð»ð°; çDCBC-151ççÈÈçç;ç
0061 C.
0062 . C. ;ãPT2°ÄÄ, ³«»Í;ã
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ö, ;¼Ú)
0069 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ö, ;¼Ú)
0070 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö, ;¼Ú)
0071 C.
0072 . C. ;ãYçYÿYÿÈÄÙÄØ;ÈÄ•Ä°²öÈð;È, äðí°ÄÄ, °È³«;ã
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ö, ;¼Ú)
0076 C. çç[HK1_REP_STA/STP] EQ START (¼Ä¹Ö, ;¼Ú)
0077 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö, ;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°ÄÄ, Ää»ÿ;çXÄ+ççµ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°ÄÄ, Ää»ÿ;ã
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç[HK1_REP_STA/STP] EQ STOP
0087 C. çç[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÄ+ççµ;OFF;ã
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç[HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç[HK1_XPA_ON/OFF] EQ OFF

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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;ã
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-039:OP
0104 ( )
0105 S. OG og-039:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPîî°è¥ÅYôYx;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. ¥ÅYôYx½ªî»òð³îç§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOGîî¼î¹ç.ë²îOKòð³îç§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. ¥ÅYôYx½ªî»òð³îç§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOGîî¼î¹ç.ë²îOKòð³îç§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. ¥ÅYôYx½ªî»òð³îç§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OPîî¼î¹ç.ë²îOKòð³îç§
0165 C.
0166 C. ***** òê²¼òî¼î¹ç.ë²îOKòð³îç§ *****
0167 C. DHU¥â;4YE;ê¼Y½, ¥î;4YE;êòîîã¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOADò-Á÷ç@NGòî¼î¹ç;ç°ê²¼òî¼î¹ç@î¼î¹çòð³îç§;§
0180 C. òð³îç§;çSETòEDUMPAîî¼î¹ç.ë²îOKòð³îç§
0181 C.
0182 C. TIY³¥P¥ôYêòð³îç§ (UT)
0183 +. TI 2008-07-31 10:18:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2008-07-31 10:18:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2008-07-31 10:18:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

```



```
0194 C.
0195 +. TI 2008-07-31 10:22:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          çç[HK1_TI_CMD_NUM]                      EQ      1COUNTUP
0198 C.
0199 C. °Ê²¼õİÄë%İİññİŷĂŷ§ŷĂŷ-¹àİÜ
0200 C.          çç[HK1_TI_CMD_ENA/DIS]                    EQ      ENA
0201 C.          çç[HK1_TI_CMD_NUM]                        EQ      4
0202 C.          çç[HK1_NEXT_EXEC_PIM]                     EQ      DHU
0203 C.          çç[HK1_NEXT_EXEC_DC]                       EQ      0xB3
0204 C.
0205 C. *****
0206 C. TIİİ°èŷĂŷÓŷ×
0207 C. *****
0208 C.
0209 C. TI_TBL(0x03AB00-0x03AEFF;$ 1024byte)
0210 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211 BC      (03 ab 03 01 02)
0212 C.          çç[HK1_DMP_TOP_ADRS_1]                    EQ      07
0213 C.          çç[HK1_DMP_TOP_ADRS_0]                    EQ      2B
0214 C.          çç[HK1_DMP_BLOCK_NUM]                     EQ      3
0215 C.          çç[HK1_DMP_REPEAT_NUM]                   EQ      0
0216 C.          çç[HK1_DMA_DMP_PIM]                       EQ      DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC      (07 0b f8)
0219 C.          çç[HK1_PKT_FORM_NO]                       EQ      7
0220 C.          çç[HK1_PKT_GEN_TIME]                       EQ      0.25 s
0221 C.          çç[HK1_S_TLM_BIT_RATE]                   EQ      32k
0222 C.          çç[HK1_X_TLM_BIT_RATE]                   EQ      4M
0223 C.          çç[HK1_DMP_CHK_FLG]                       EQ      EXEC
0224 C.
0225 C. ŷĂŷÓŷ×½ªİ»ò³İÇ§
0226 C.          çç[HK1_DMP_CHK_FLG]                       EQ      NON
0227 C.
0228 C. RAM ID=TI_TBLñİ½È¹ç•è²İOKò³İÇ§
0229 C.
0230 C. DHUŷã;¼ŷÉ;È¼ŷ¼.ŷİ;¼ŷÈ;Èòòİãñ¹
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC      (02 0a f8)
0233 C.          çç[HK1_PKT_FORM_NO]                       EQ      2
0234 C.          çç[HK1_PKT_GEN_TIME]                       EQ      0.5S
0235 C.          çç[HK1_S_TLM_BIT_RATE]                   EQ      32K
0236 C.          çç[HK1_X_TLM_BIT_RATE]                   EQ      4M
0237 C.
0238 C. *****
0239 C. SOT TI command set
0240 C. *****
0241 C. Execute, after the success of OP upload.
0242 +. TI 2008-07-31 10:22:16.0
0243 DC 07-F0 MDP_SOT_MODE_STBY
0244 BC      (41)
0245 C. -----
0246 C.   HK1_TI_CMD_NUM           = 1 CNTUP [ ]
0247 C. -----
0248 C. ***** SOT END *****
0249 C. Stop EIS observation and temporarily disable EIS mode changes
0250 C.
0251 C.
0252 C. ***** Start EIS operation (TI set) *****
0253 C. Execute, after the success of OP upload.
0254 C. Set EIS TI-commands
0255 +. TI 2008-07-31 10:22:30.0
0256 DC 07-FC EIS_MODE_MANU
0257 BC      (21 02)
0258 +. TI 2008-07-31 10:22:40.0
0259 DC 07-FC EIS_MODE_CHG_DIS
0260 BC      (22)
0261 C.          [ ] [HK1_TI_CMD_NUM]                      EQ      2 COUNTUP
0262 C. ***** End EIS operation (TI set) *****
0263 C.
0264 C.
0265 C.
0266 C. ***** XRT START *****
0267 C. Execute, after the success of OP upload.
0268 +. TI 2008-07-31 10:22:00.0
0269 DC 07-F0 MDP_XRT_MODE_STBY
0270 BC      (c3)
0271 C.          [ ] [HK1_TI_CMD_NUM]                      EQ      1COUNTUP
0272 C.
0273 C. ***** XRT END *****
0274 C.
0275 C. ***** MDP ´ûĂİñİ»ö¼ŷñÈĂĐñ¹ñèDCBC•x²è *****
0276 C. (¼ã°İŷÓŷĂŷÈŷŷŷÈŷáŷçŷèè¼õõ¼Ă»Űñ¹è)
0277 S. DC-BC dcbc-402:DCBC
0278 (MDP_known_event)
0279 C.
0280 C.
0281 C. ***** ŷĐŷ¹•İ Daily±çİññÈ'Øñ¹ñèDCBC•x²è *****
0282 S. DC-BC dcbc-153:DCBC
0283 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284 C.
0285 C.
0286 C. ;ãLOSŷĂŷ§ŷĂŷ-¼Ă»Ű;ã
0287 C.
0288 C. ***** LOS *****
0289 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-040 2008-07-31 12:17:43 82 33 SOLAR-B MAIN //
0001 . C.
0002 . C. ***** AOS *****
0003 . C.
0004 . C. ;ãAOSYÁY$YÁY-¼Ä»Û;ã
0005 . C.
0006 . C. YÀYB;¼Y³YFYOYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 . C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 . C. Áí;È□¿□Á□•μ°È»Í×ÁÇ□ÍYçYÁY×YÍ;¼YÉ;ÈÈ%μ•ÍÉ;È□È¼°ÇÖ□•□¿¼Í¹ç□Í;çÀ®, ù□¹□È□□□ÇÁ+¿®□•□È□□□³□È;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 . C.
0013 . C.
0014 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0015 . C. Upload the Orbit Element and the Target Attitude
0016 . C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 . ( )
0019 . C.
0020 . C.
0021 . C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023 . BC (07 00 00 00 18 00)
0024 . C.
0025 . C. <A_ST$1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 . C.
0027 . C.
0028 . C. Change the TLMFormatNo for the AOCS Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 . BC (04 0b f8)
0031 . C.
0032 . C. Wait for AOCSDUMP to end
0033 . C.
0034 . C. Check the dump memory
0035 . C.
0036 . C. Result = OK [ ]
0037 . C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 . BC (02 0a f8)
0040 . C.
0041 . C. <A_***>[TLM STS] FMT = 2 [ ]
0042 . C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0046 +. DC 07-FC EIS_MODE_MANU
0047 . BC (21 02)
0048 . C. Verify EIS in MANUAL mode
0049 . C. Estimated OBSTBL upload time is 4s
0050 . C. *****
0051 . C. EIS START OBSTBL LOAD
0052 . C. *****
0053 . S. RAM ram-821:EIS_OBSTBL
0054 . ( )
0055 +. DC 07-FC EIS_DUMP_OBSTBL
0056 . BC (07 07 07 00 00 70 00)
0057 . C.
0058 . C. Execute, after the success of OBSTBL upload.
0059 . C. Set EIS TI-commands
0060 +. TI 2008-07-31 10:22:50.0
0061 . DC 07-FC EIS_MODE_CHG_ENA
0062 . BC (20)
0063 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0064 . C. *****
0065 . C. EIS END OBSTBL LOAD
0066 . C. *****
0067 . C.
0068 . C. ***** MDP `ûÁî□î»ô¼Y□ÈÄ□¹□ÈDCBC•x²È *****
0069 . C. (¼á°ÍYÓYÁYÉYBYPYÉYfáYçYÈ□È¼°ÇÁ»Û□¹□È)
0070 . S. DC-BC dcbc-402:DCBC
0071 . (MDP_known_event)
0072 . C.
0073 . C.
0074 . C. ***** YBY¹.Ï Daily±;jÍÑ□È`Ø□¹□ÈDCBC•x²È *****
0075 . S. DC-BC dcbc-153:DCBC
0076 . (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0077 . C.
0078 . C.
0079 . C. ;ãLOSÁY$YÁY-¼Ä»Û;ã
0080 . C.
0081 . C. ***** LOS *****
0082 . C.
```



```

0096 C.
0097 C.
0098 . C. *****
0099 C. SOT table upload
0100 C. *****
0101 . C. < Stop FG table >
0102 +. DC 07-F0 MDP_FG_CTRL_MANU
0103 BC (51)
0104 . C. -----
0105 C. MDP_FG_CTRL_MODE = MANU [ ]
0106 C. -----
0107 C.
0108 . C. <Upload FG Observation Table>
0109 . S. RAM ram-264:MDP_OBS_F
0110 ( )
0111 C.
0112 . C. < Dump RAMID=MDP_OBS_F >
0113 +. DC 07-F0 MDP_DUMP_FGTBL
0114 BC (82 07 00 00 00 38 b8)
0115 C. -----
0116 C. MDP_OBS_F verify = OK/NG [ ]
0117 C. -----
0118 C.
0119 . C. < Stop SP table >
0120 +. DC 07-F0 MDP_SP_CTRL_MANU
0121 BC (61)
0122 C. -----
0123 C. MDP_SP_CTRL_MODE = MANU [ ]
0124 C. -----
0125 C.
0126 . C. <Upload SP Observation Table>
0127 . S. RAM ram-286:MDP_OBS_S
0128 ( )
0129 C.
0130 . C. < Dump RAMID=MDP_OBS_S >
0131 +. DC 07-F0 MDP_DUMP_SPTBL
0132 BC (83 07 00 00 00 38 b8)
0133 C. -----
0134 C. MDP_OBS_S verify = OK/NG [ ]
0135 C. -----
0136 C.
0137 C. *****
0138 C. SOT TI command set
0139 C. *****
0140 C. Execute, after the success of TBL upload.
0141 +. TI 2008-07-31 10:22:18.0
0142 DC 07-F0 MDP_SOT_MODE_OBSV
0143 BC (40)
0144 . C. -----
0145 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0146 C. -----
0147 C.
0148 C.
0149 C. ***** XRT START *****
0150 C.
0151 +. DC 07-F0 MDP_XRT_CTRL_MANU
0152 BC (c1)
0153 + DC 07-F0 MDP_XRT_MODE_STBY
0154 BC (c3)
0155 . C. ----- Success Verify ? OK / NG____
0156 C.
0157 C. XRT Obs. Table Upload
0158 . S. RAM ram-291:MDP_OBS_X
0159 ( )
0160 C.
0161 +. DC 07-F0 MDP_DUMP_XRTTBL
0162 BC (84 07 00 00 00 3a d4)
0163 . C. ----- Comparison Check ? OK / ERR ____
0164 C.
0165 C.
0166 +. DC 07-F0 MDP_XRT_ROI_SET
0167 BC (cd 01 b1 b1 04 04)
0168 + DC 07-F0 MDP_XRT_ROI_SET
0169 BC (cd 02 b1 b1 08 08)
0170 + DC 07-F0 MDP_XRT_ROI_SET
0171 BC (cd 03 b1 b1 08 08)
0172 + DC 07-F0 MDP_XRT_ROI_SET
0173 BC (cd 04 b1 b1 06 06)
0174 + DC 07-F0 MDP_XRT_ROI_SET
0175 BC (cd 06 80 80 08 08)
0176 + DC 07-F0 MDP_XRT_ROI_SET
0177 BC (cd 07 80 80 20 20)
0178 + DC 07-F0 MDP_XRT_ROI_SET
0179 BC (cd 08 80 a0 20 18)
0180 + DC 07-F0 MDP_XRT_ROI_SET
0181 BC (cd 0f 80 80 06 06)
0182 + DC 07-F0 MDP_XRT_ROI_SET
0183 BC (cd 10 80 80 04 04)
0184 . C. ----- Success Verify ? OK / NG ____
0185 C.
0186 C.
0187 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0188 C.
0189 +. DC 07-F0 MDP_XRT_MODE_OBSV
0190 BC (c2)
0191 +. TI 2008-07-31 10:22:02.0
0192 DC 07-F0 MDP_XRT_MODE_OBSV
0193 BC (c2)

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Jul 31, 08 12:18

XRT_OGLIST_0063.chk

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*** OP Sequence for XRT ***

| | | | | | | | | | |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|-------|
| 2008/07/31 | 10:33:00.0 | AOCS_ORe-point_Start_1_OG [0x097] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2008/07/31 | 11:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 | b3 | 8e | 00 | 00 |
| 2008/07/31 | 11:03:04.0 | XRT_CTRL_MANU_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/07/31 | 11:03:06.0 | XRT_QT_PROG_SET_440_OG [0x1b8] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | | | | | c4 14 |
| 2008/07/31 | 11:05:04.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe | | | 97 00 |
| 2008/07/31 | 11:05:24.0 | XRT_ARS_DIS_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | | | | | d5 |
| 2008/07/31 | 11:05:26.0 | XRT_FLD_DIS_445_OG [0x1bd] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | | | | | d9 |
| 2008/07/31 | 11:05:28.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | | | | | c9 |
| 2008/07/31 | 11:05:30.0 | XRT_CTRL_AUTO_403_OG [0x193] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | | | | | c0 |
| 2008/07/31 | 12:20:00.0 | XRT_CTRL_MANU_435_OG [0x1b3] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/07/31 | 12:36:00.0 | XRT_Custom_421_OG [0x1a5] | | | | | | | |
| 2008/07/31 | 12:44:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | | | | | c0 |
| 2008/07/31 | 13:58:30.0 | XRT_CTRL_MANU_435_OG [0x1b3] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/07/31 | 14:14:30.0 | XRT_Custom_421_OG [0x1a5] | | | | | | | |
| 2008/07/31 | 14:22:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | | | | | c0 |
| 2008/07/31 | 15:37:00.0 | XRT_CTRL_MANU_435_OG [0x1b3] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/07/31 | 16:19:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | |
| 2008/07/31 | 16:20:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | | | | | c0 |
| 2008/07/31 | 17:16:00.0 | XRT_CTRL_MANU_435_OG [0x1b3] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/07/31 | 17:56:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | |
| 2008/07/31 | 17:57:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | | | | | c0 |
| 2008/07/31 | 17:57:24.0 | XRT_CTRL_MANU_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/07/31 | 17:57:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | ff | | | aa 00 |
| 2008/07/31 | 17:57:30.0 | AOCS_ORe-point_Start_1_OG [0x097] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2008/07/31 | 17:57:46.0 | XRT_QT_PROG_SET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | | | | | c4 08 |
| 2008/07/31 | 17:57:48.0 | XRT_FLD_DIS_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | | | | | d9 |
| 2008/07/31 | 17:57:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | | | | | c9 |
| 2008/07/31 | 17:57:52.0 | XRT_ARS_DIS_427_OG [0x1ab] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | | | | | d5 |
| 2008/07/31 | 17:59:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | | | | | c0 |
| 2008/07/31 | 18:07:24.0 | XRT_CTRL_MANU_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/08/01 | 00:16:24.0 | XRT_CTRL_MANU_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/08/01 | 00:16:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | ff | | | aa 00 |
| 2008/08/01 | 00:16:46.0 | XRT_QT_PROG_SET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | | | | | c4 08 |
| 2008/08/01 | 00:16:48.0 | XRT_FLD_DIS_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | | | | | d9 |
| 2008/08/01 | 00:16:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | | | | | c9 |
| 2008/08/01 | 00:16:52.0 | XRT_ARS_DIS_427_OG [0x1ab] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | | | | | d5 |
| 2008/08/01 | 00:18:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | | | | | c0 |
| 2008/08/01 | 00:26:24.0 | XRT_CTRL_MANU_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/08/01 | 05:42:24.0 | XRT_CTRL_MANU_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/08/01 | 05:42:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | ff | | | aa 00 |
| 2008/08/01 | 05:42:30.0 | AOCS_ORe-point_Start_1_OG [0x097] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2008/08/01 | 05:42:46.0 | XRT_QT_PROG_SET_446_OG [0x1be] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | | | | | c4 04 |
| 2008/08/01 | 05:42:48.0 | XRT_FLD_DIS_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | | | | | d9 |
| 2008/08/01 | 05:42:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | | | | | c9 |
| 2008/08/01 | 05:42:52.0 | XRT_ARS_DIS_427_OG [0x1ab] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | | | | | d5 |
| 2008/08/01 | 05:44:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | | | | | c0 |
| 2008/08/01 | 05:52:24.0 | XRT_CTRL_MANU_428_OG [0x1ac] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | | | | | c1 |
| 2008/08/01 | 05:52:24.5 | XRT_CTRL_MANU_428_OG [0x1ac] | | | | | | | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|----|
| 2008/08/01 | 05:52:26.5 | XRT_QT_PROG_SET_440_OG [0x1b8] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| | | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 14 |
| 2008/08/01 | 05:52:30.0 | AOCS_Ore-point_Start_3_OG [0x099] | | 5 | 02-76 | 00 b0 00 00 00 | |
| | | | AOCU_NM | | | | |
| 2008/08/01 | 05:54:24.5 | XRT_FOCUS_POSITION_441_OG [0x1b9] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | |
| 2008/08/01 | 05:54:44.5 | XRT_ARS_DIS_422_OG [0x1a6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2008/08/01 | 05:54:46.5 | XRT_FLD_DIS_445_OG [0x1bd] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | |
| 2008/08/01 | 05:54:48.5 | XRT_FLRCTRL_DIS_416_OG [0x1a0] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | |
| 2008/08/01 | 05:54:50.5 | XRT_CTRL_AUTO_403_OG [0x193] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2008/08/01 | 06:10:00.0 | XRT_CTRL_MANU_435_OG [0x1b3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 06:39:00.0 | XRT_Custom_421_OG [0x1a5] | | | | | |
| 2008/08/01 | 06:47:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2008/08/01 | 07:50:00.0 | XRT_CTRL_MANU_435_OG [0x1b3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 08:29:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 08:29:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 14 |
| 2008/08/01 | 08:30:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] | | 5 | 02-76 | 00 41 58 18 72 | |
| | | | AOCU_NM | | | | |
| 2008/08/01 | 08:31:54.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | |
| 2008/08/01 | 08:32:14.0 | XRT_ARS_DIS_422_OG [0x1a6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2008/08/01 | 08:32:16.0 | XRT_FLD_DIS_445_OG [0x1bd] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | |
| 2008/08/01 | 08:32:18.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | |
| 2008/08/01 | 08:32:20.0 | XRT_CTRL_AUTO_403_OG [0x193] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2008/08/01 | 09:30:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | | 5 | 02-76 | 00 00 00 00 00 | |
| | | | AOCU_NM | | | | |
| 2008/08/01 | 09:30:00.5 | XRT_CTRL_MANU_435_OG [0x1b3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 10:02:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 10:02:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | |
| 2008/08/01 | 10:03:16.0 | XRT_QT_PROG_SET_412_OG [0x19c] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 08 |
| 2008/08/01 | 10:03:18.0 | XRT_FLD_DIS_419_OG [0x1a3] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | |
| 2008/08/01 | 10:03:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | |
| 2008/08/01 | 10:03:22.0 | XRT_ARS_DIS_427_OG [0x1ab] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2008/08/01 | 10:05:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2008/08/01 | 10:12:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 10:12:54.5 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 10:12:56.5 | XRT_QT_PROG_SET_436_OG [0x1b4] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0d |
| 2008/08/01 | 10:14:54.5 | XRT_FOCUS_POSITION_434_OG [0x1b2] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | |
| 2008/08/01 | 10:15:14.5 | XRT_ARS_DIS_422_OG [0x1a6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2008/08/01 | 10:15:16.5 | XRT_FLD_DIS_445_OG [0x1bd] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | |
| 2008/08/01 | 10:15:18.5 | XRT_FLRCTRL_DIS_416_OG [0x1a0] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | |
| 2008/08/01 | 10:15:20.5 | XRT_CTRL_AUTO_403_OG [0x193] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2008/08/01 | 10:24:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 10:24:56.0 | XRT_QT_PROG_SET_425_OG [0x1a9] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 03 |
| 2008/08/01 | 10:25:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | | 5 | 02-76 | 00 b0 00 00 00 | |
| | | | AOCU_NM | | | | |
| 2008/08/01 | 10:26:54.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | |
| 2008/08/01 | 10:27:14.0 | XRT_ARS_DIS_422_OG [0x1a6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | |
| 2008/08/01 | 10:27:16.0 | XRT_FLD_DIS_445_OG [0x1bd] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | |
| 2008/08/01 | 10:27:18.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | |
| 2008/08/01 | 10:27:20.0 | XRT_CTRL_AUTO_403_OG [0x193] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |
| 2008/08/01 | 11:13:00.0 | XRT_CTRL_MANU_435_OG [0x1b3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | |
| 2008/08/01 | 11:14:30.0 | XRT_Custom_430_OG [0x1ae] | | | | | |
| 2008/08/01 | 11:15:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | |

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| | | | | | | | | | |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|----|
| 2008/08/01 | 11:19:30.0 | XRT_CTRL_MANU_435_OG [0x1b3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/01 | 11:34:30.0 | XRT_Custom_421_OG [0x1a5] | | | | | | | |
| 2008/08/01 | 11:42:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/01 | 11:53:30.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/01 | 11:53:32.0 | XRT_QT_PROG_SET_415_OG [0x19f] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 0f | | |
| 2008/08/01 | 11:54:00.0 | XRT_CTRL_AUTO_403_OG [0x193] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/01 | 12:17:34.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/01 | 12:17:36.0 | XRT_QT_PROG_SET_440_OG [0x1b8] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 14 | | |
| 2008/08/01 | 12:19:34.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2008/08/01 | 12:19:54.0 | XRT_ARS_DIS_422_OG [0x1a6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2008/08/01 | 12:19:56.0 | XRT_FLD_DIS_445_OG [0x1bd] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | |
| 2008/08/01 | 12:19:58.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | |
| 2008/08/01 | 12:20:00.0 | XRT_CTRL_AUTO_403_OG [0x193] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/01 | 12:58:00.0 | XRT_CTRL_MANU_435_OG [0x1b3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/01 | 13:13:00.0 | XRT_Custom_421_OG [0x1a5] | | | | | | | |
| 2008/08/01 | 13:21:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/01 | 14:37:00.0 | XRT_CTRL_MANU_435_OG [0x1b3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/01 | 15:08:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | |
| 2008/08/01 | 15:09:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/01 | 16:15:30.0 | XRT_CTRL_MANU_435_OG [0x1b3] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/01 | 16:56:00.0 | XRT_Custom_430_OG [0x1ae] | | | | | | | |
| 2008/08/01 | 16:57:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/01 | 17:41:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/01 | 17:41:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2008/08/01 | 17:42:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2008/08/01 | 17:42:16.0 | XRT_QT_PROG_SET_412_OG [0x19c] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 08 | | |
| 2008/08/01 | 17:42:18.0 | XRT_FLD_DIS_419_OG [0x1a3] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | |
| 2008/08/01 | 17:42:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | |
| 2008/08/01 | 17:42:22.0 | XRT_ARS_DIS_427_OG [0x1ab] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2008/08/01 | 17:44:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/01 | 17:51:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/02 | 00:04:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/02 | 00:04:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2008/08/02 | 00:05:16.0 | XRT_QT_PROG_SET_412_OG [0x19c] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 08 | | |
| 2008/08/02 | 00:05:18.0 | XRT_FLD_DIS_419_OG [0x1a3] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | |
| 2008/08/02 | 00:05:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | |
| 2008/08/02 | 00:05:22.0 | XRT_ARS_DIS_427_OG [0x1ab] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2008/08/02 | 00:07:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/02 | 00:14:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/02 | 05:59:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/02 | 05:59:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2008/08/02 | 06:00:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2008/08/02 | 06:00:16.0 | XRT_QT_PROG_SET_446_OG [0x1be] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 | | |
| 2008/08/02 | 06:00:18.0 | XRT_FLD_DIS_419_OG [0x1a3] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | |
| 2008/08/02 | 06:00:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | |
| 2008/08/02 | 06:00:22.0 | XRT_ARS_DIS_427_OG [0x1ab] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | |
| 2008/08/02 | 06:02:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | |
| 2008/08/02 | 06:09:54.0 | XRT_CTRL_MANU_428_OG [0x1ac] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | |
| 2008/08/02 | 10:10:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | | | | | | | |

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