

# XRT Timeline to be uploaded on 2008/07/01

Period: 2008/07/01 10:16:00 - 2008/07/05 11:07:00

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## Normal mode

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| XOB #1562: Synoptic Q90 2x2 - Al/mesh(256/2048) + Dark cal(512 Q98) + Ti-poly(512/5975) + G-band(16) |                 |       |      |       |  |     |     |                        |       |            |          |        |
|--|-----------------|-------|------|-------|--|-----|-----|------------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y) |       |      |       | Comment  |     |     |                        |       |            |          |        |
| 07/01 17:59:00 - 07/01 18:06:54  | Fixed (         | 0.0,  | 0.0) |       | synoptic, shifted -3.0 min                       |     |     |                        |       |            |          |        |
| 07/02 06:18:00 - 07/02 06:25:54  | Fixed (         | 0.0,  | 0.0) |       | * Axions for XRT, and synoptic from 06:16:00 UT. |     |     |                        |       |            |          |        |
| 07/02 17:56:30 - 07/02 18:04:24  | Fixed (         | 0.0,  | 0.0) |       | synoptic, shifted -5.5 min                       |     |     |                        |       |            |          |        |
| 07/03 05:41:30 - 07/03 05:49:24  | Fixed (         | 0.0,  | 0.0) |       | synoptic, shifted -20.5 min                      |     |     |                        |       |            |          |        |
| <b>PROG= 16 1-time(s)</b>  |                 |       |      |       |  |     |     |                        |       |            |          |        |
| └─ <b>Subr= 1 1-time(s) 2.0sec</b>   |                 |       |      |       |  |     |     |                        |       |            |          |        |
| └─ <b>Seqn= 38 1-time(s) 4.0sec</b>  |                 |       |      |       |  |     |     |                        |       |            |          |        |
| Open/Al-mesh   | Open/Ti-poly    | close | Safe | Norm  | 250ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| Open/Al-mesh   | Open/Ti-poly    | close | Safe | Norm  | 2.00s  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| └─ <b>Seqn= 72 1-time(s) 2.0sec</b>  |                 |       |      |       |  |     |     |                        |       |            |          |        |
| Open/Al-mesh   | Open/Al-mesh    | close | Safe | Dark  | 500ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| └─ <b>Seqn= 64 1-time(s) 4.0sec</b>  |                 |       |      |       |  |     |     |                        |       |            |          |        |
| Open/Ti-poly   | Open/thick-Al   | close | Safe | Norm  | 500ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| Open/Ti-poly   | Open/thick-Al   | close | Safe | Norm  | 5.66s  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| └─ <b>Seqn= 46 1-time(s) 2.0sec</b>  |                 |       |      |       |  |     |     |                        |       |            |          |        |
| Open/G-band  | Open/G-band     | open  | Safe | Norm  | 16ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| Default Filter   | Thicker Filter  | VLS   | mode | image | Exp.   | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

| XOB #156C: Polar Plume - Al/Mesh, Al/Poly, C/Poly - 512x512 |                  |       |         |       |                |     |     |                      |       |            |          |         |
|---|------------------|-------|---------|-------|----------------|-----|-----|----------------------|-------|------------|----------|---------|
| Term  | Pointing (x, y)  |       |         |       | Comment        |     |     |                      |       |            |          |         |
| 07/01 20:32:26 - 07/02 00:00:00                             | Fixed (          | 0.0,  | -950.0) |       | * Polar Plumes |     |     |                      |       |            |          |         |
| 07/02 20:06:56 - 07/02 23:42:00                             | Fixed (          | 0.0,  | -950.0) |       | * Polar Plume  |     |     |                      |       |            |          |         |
| <b>PROG= 09 Inf.-time(s)</b>                                |                  |       |         |       |                |     |     |                      |       |            |          |         |
| └─ <b>Subr= 1 1-time(s) 60.0sec</b>                         |                  |       |         |       |                |     |     |                      |       |            |          |         |
| └─ <b>Seqn= 11 1-time(s) 2.0sec</b>                         |                  |       |         |       |                |     |     |                      |       |            |          |         |
| Open/Al-mesh  | Open/Al-mesh     | close | Safe    | Norm  | 11.3s          | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 0          | 0        | 36.0sec |
| Al-poly/Open  | Al-poly/thick-Al | close | Safe    | Norm  | 22.6s          | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 0          | 0        | 36.0sec |
| C-poly/Open   | C-poly/thick-Al  | close | Safe    | Norm  | 32.0s          | 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 #155F: Axion Study no-AEC Med-Be-12s |                 |       |      |       |  |     |     |                        |       |            |          |        |
|--|-----------------|-------|------|-------|--|-----|-----|------------------------|-------|------------|----------|--------|
| Term                                     | Pointing (x, y) |       |      |       | Comment  |     |     |                        |       |            |          |        |
| 07/02 00:00:30 - 07/02 05:28:30          | Fixed (         | 0.0,  | 0.0) |       | * Axions for XRT, and synoptic from 06:16:00 UT. |     |     |                        |       |            |          |        |
| <b>PROG= 04 Inf.-time(s)</b>             |                 |       |      |       |  |     |     |                        |       |            |          |        |
| └─ <b>Subr= 1 1-time(s) 2.0sec</b>       |                 |       |      |       |  |     |     |                        |       |            |          |        |
| └─ <b>Seqn= 12 25-time(s) 4.0sec</b>     |                 |       |      |       |  |     |     |                        |       |            |          |        |
| med-Be/Open                              | med-Be/Open     | close | Safe | Norm  | 11.3s  | Obs | 8x8 | 2048x2048 (1024, 1024) | DPCM  | 0          | 0        | 2.0sec |
| └─ <b>Subr= 2 1-time(s) 2.0sec</b>       |                 |       |      |       |  |     |     |                        |       |            |          |        |
| └─ <b>Seqn= 52 1-time(s) 4.0sec</b>      |                 |       |      |       |  |     |     |                        |       |            |          |        |
| med-Be/Open                              | med-Be/Open     | close | Safe | Dark  | 11.3s  | Obs | 8x8 | 2048x2048 (1024, 1024) | DPCM  | 0          | 0        | 2.0sec |
| Default Filter                           | Thicker Filter  | VLS   | mode | image | Exp.   | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer | Interval |        |

| XOB #1578: QS Ti/Poly Al/Mesh Q90 512x512 no loop |                 |        |       |                  |                  |     |     |                      |       |            |          |         |
|---|-----------------|--------|-------|------------------|------------------|-----|-----|----------------------|-------|------------|----------|---------|
| Term  | Pointing (x, y) |        |       |                  | Comment          |     |     |                      |       |            |          |         |
| 07/02 06:28:26 - 07/02 17:08:00                   | Track (         | -51.1, | 0.5)  | @ 07/02 06:26:00 | # QS brightening |     |     |                      |       |            |          |         |
| 07/03 00:12:56 - 07/03 05:39:24                   | Track (         | 109.9, | -0.5) | @ 07/03 00:00:00 | * QS brightening |     |     |                      |       |            |          |         |
| <b>PROG= 19 Inf.-time(s)</b>                      |                 |        |       |                  |                  |     |     |                      |       |            |          |         |
| └─ <b>Subr= 1 30-time(s) 2.0sec</b>               |                 |        |       |                  |                  |     |     |                      |       |            |          |         |
| └─ <b>Seqn= 68 1-time(s) 60.0sec</b>              |                 |        |       |                  |                  |     |     |                      |       |            |          |         |
| Open/Ti-poly                                      | Open/Ti-poly    | close  | Safe  | Norm             | 22.6s            | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 0          | 0        | 14.0sec |
| └─ <b>Seqn= 71 1-time(s) 60.0sec</b>              |                 |        |       |                  |                  |     |     |                      |       |            |          |         |
| Open/Al-mesh                                      | Open/Ti-poly    | close  | Safe  | Norm             | 8.00s            | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 0          | 0        | 14.0sec |
| └─ <b>Subr= 2 1-time(s) 2.0sec</b>                |                 |        |       |                  |                  |     |     |                      |       |            |          |         |
| └─ <b>Seqn= 35 1-time(s) 60.0sec</b>              |                 |        |       |                  |                  |     |     |                      |       |            |          |         |
| Open/Al-mesh                                      | Open/G-band     | close  | Safe  | Dark             | 8.00s            | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec  |
| Default Filter                                    | Thicker Filter  | VLS    | mode  | image            | Exp.             | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |         |

\* \* \* \* \*

## Flare mode

\* \* \* \* \*

NOT USED

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## Active Region Search

\* \* \* \* \*

NOT USED

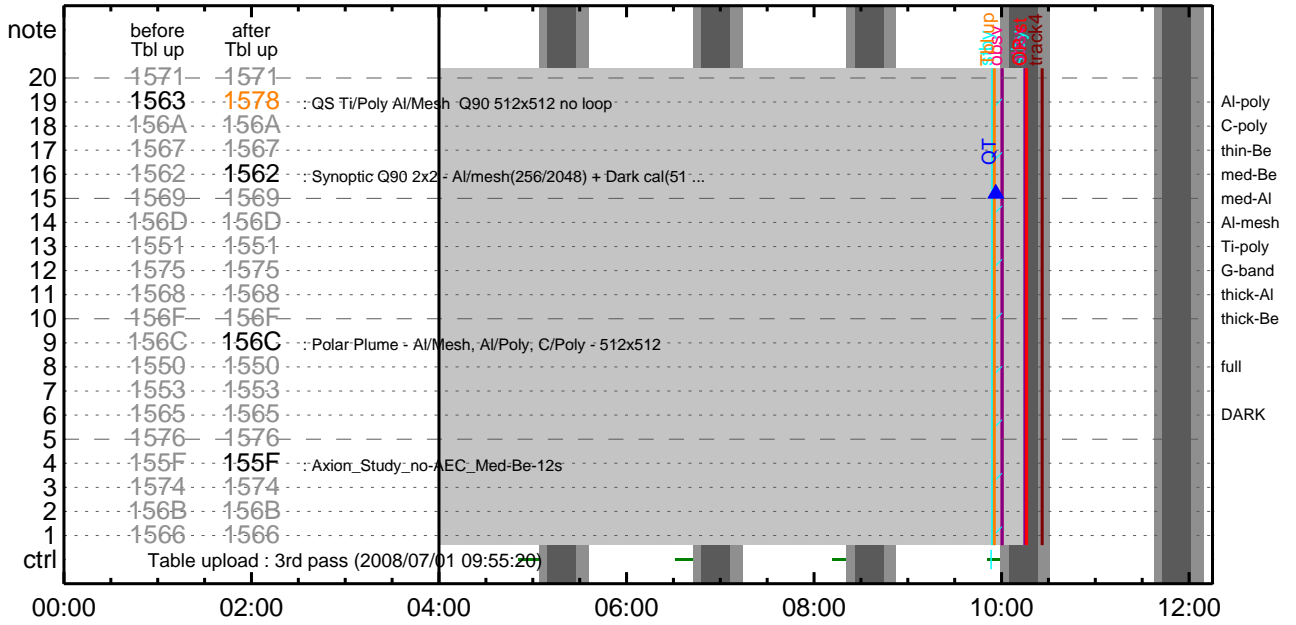
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## Flare Detection

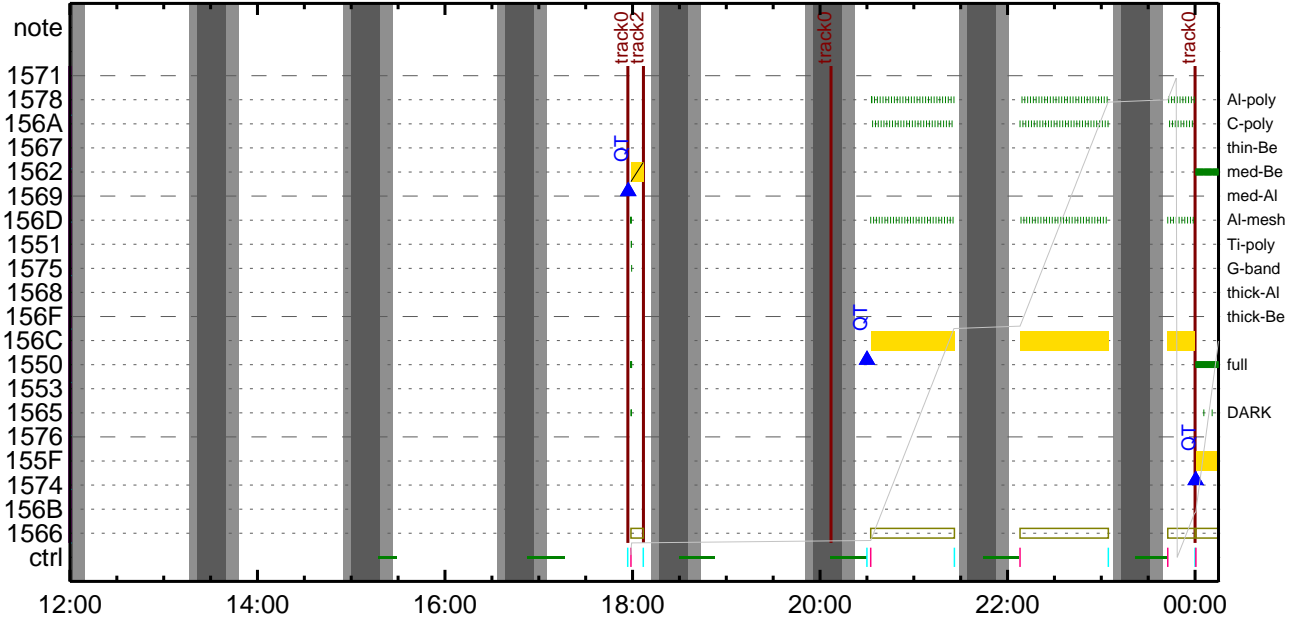
\* \* \* \* \*

NOT USED

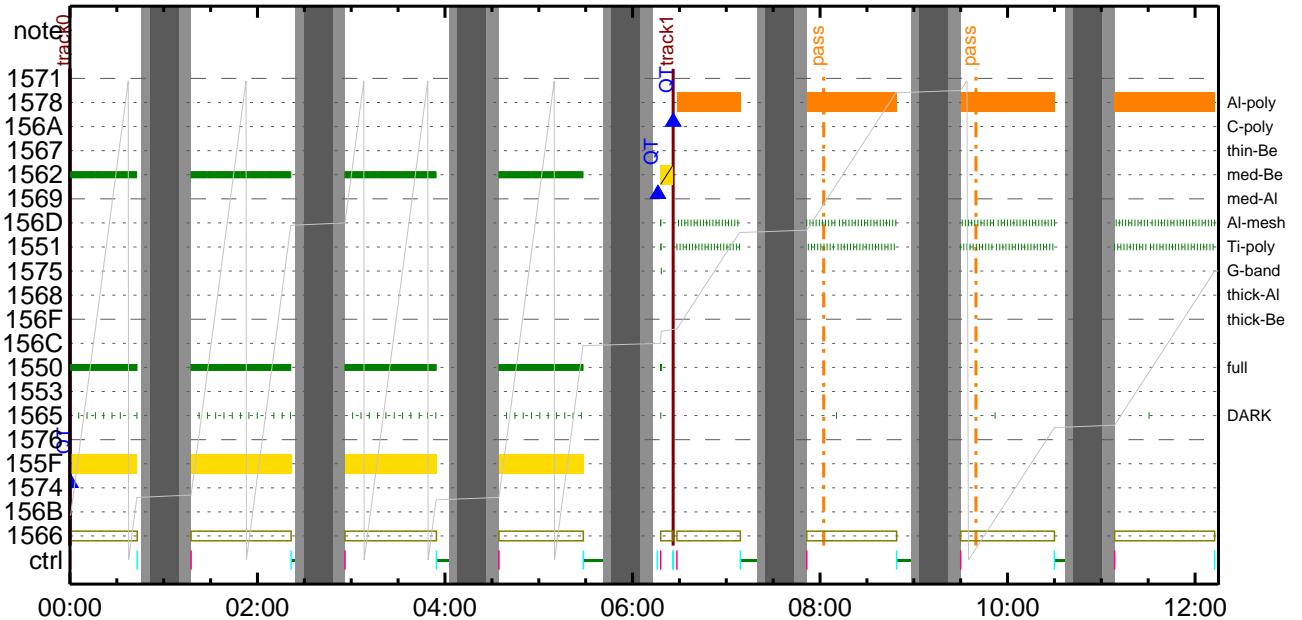
### CMDI #0011 2008/07/01



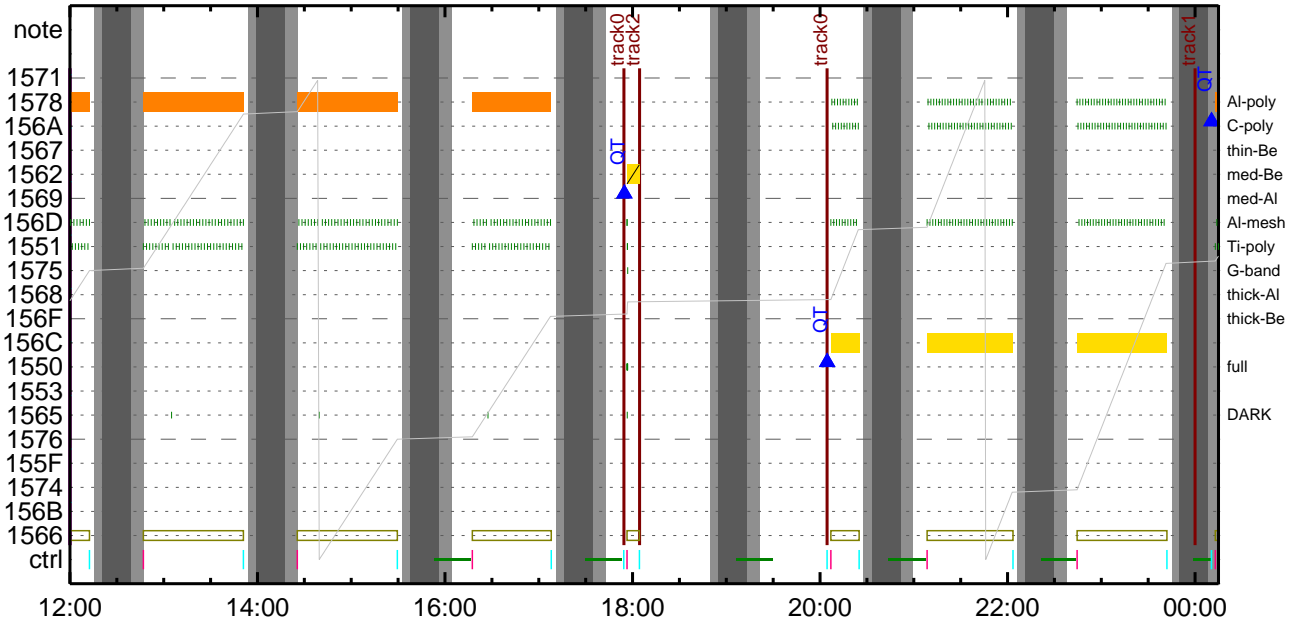
### CMDI #0011 2008/07/01



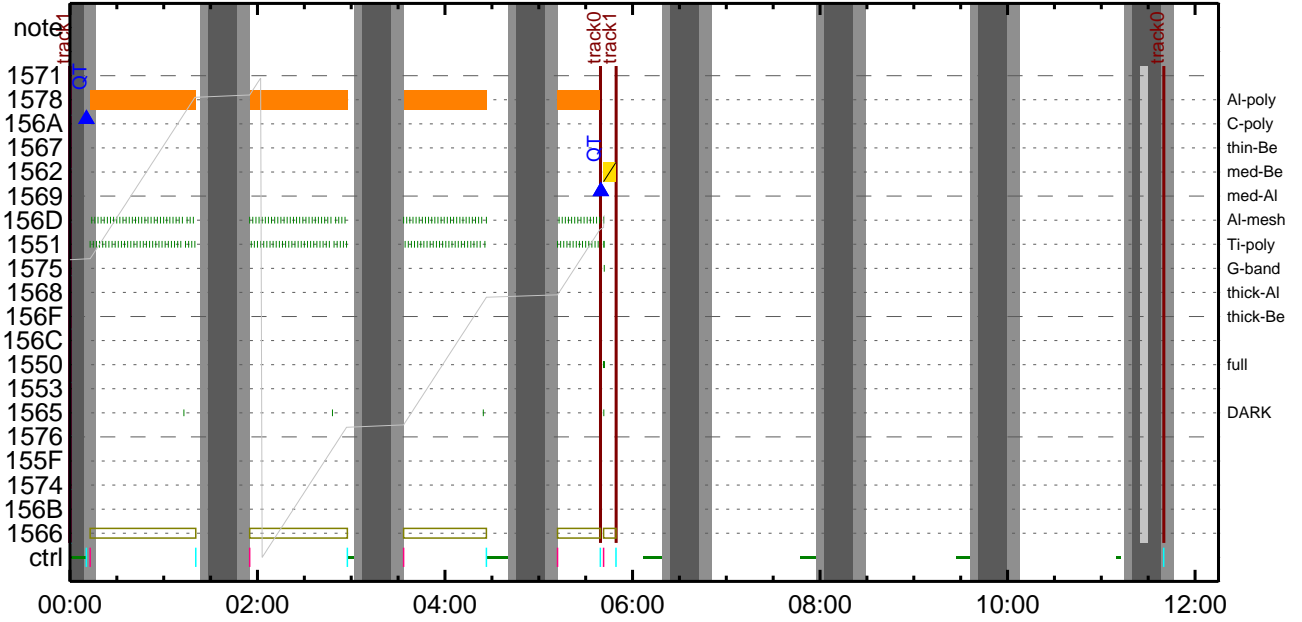
### CMDI #0011 2008/07/02



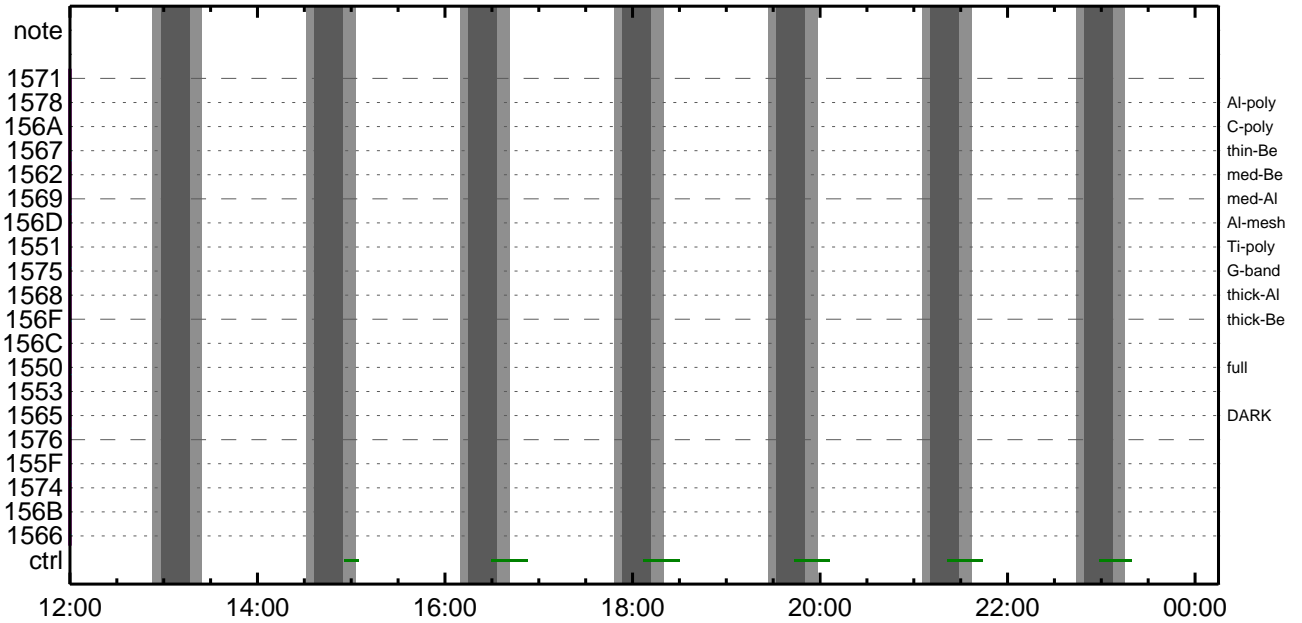
CMDI #0011 2008/07/02



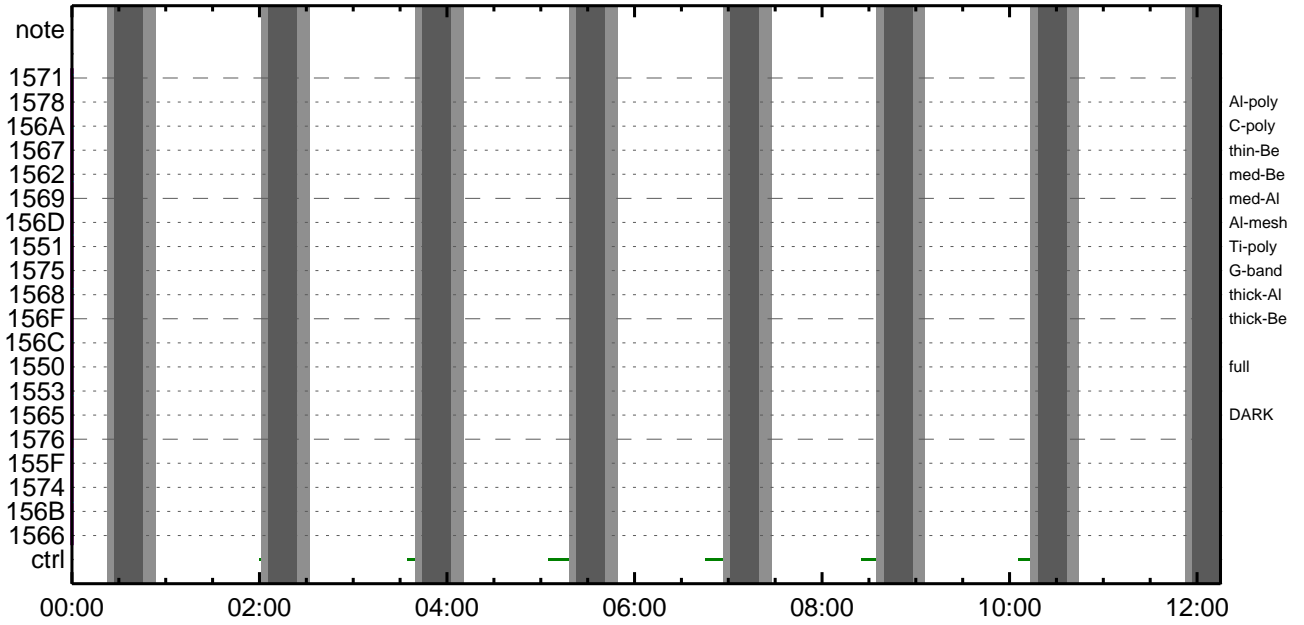
CMDI #0011 2008/07/03



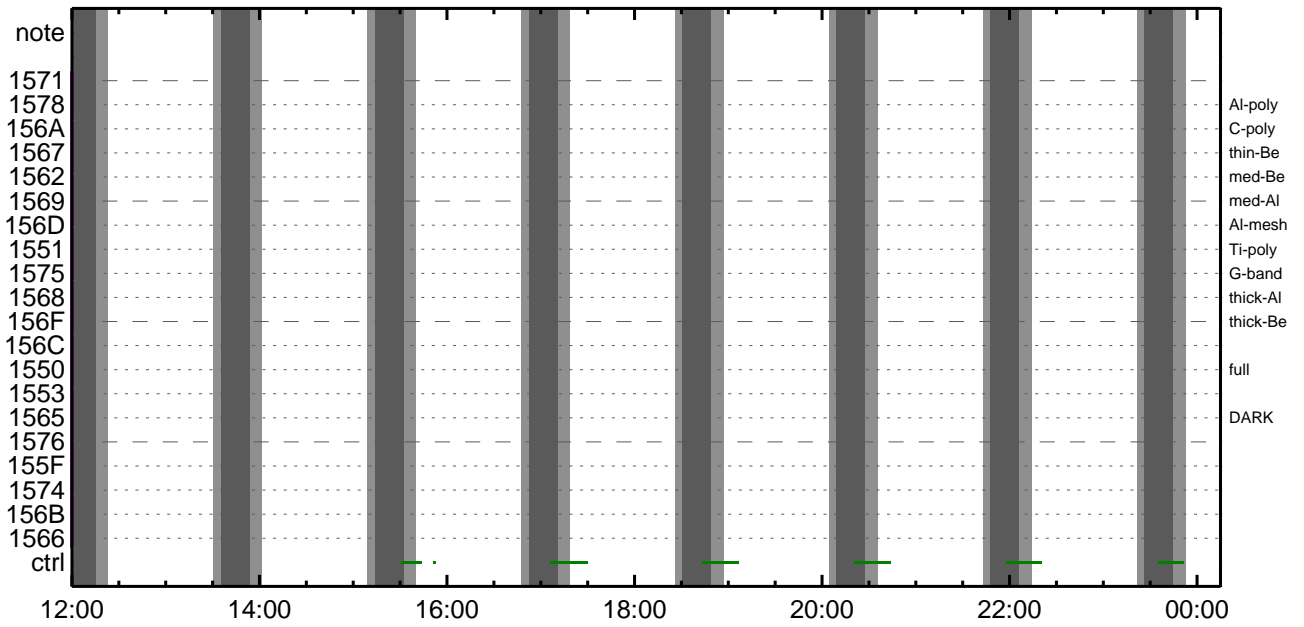
CMDI #0011 2008/07/03



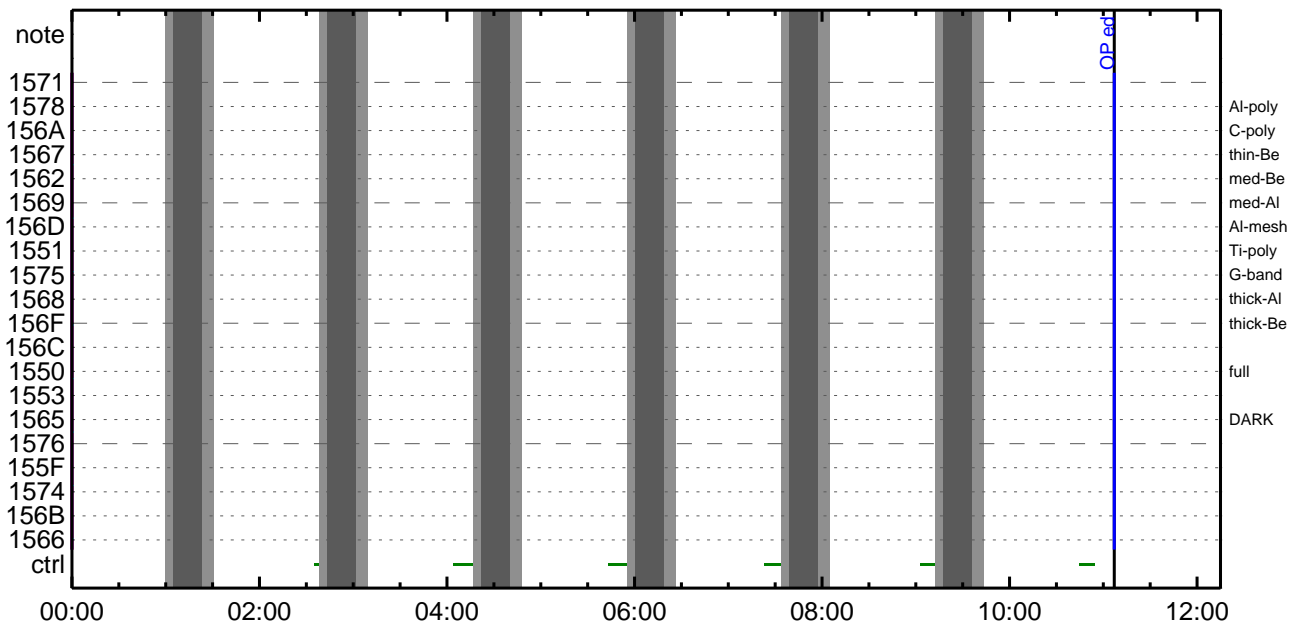
CMDI #0011 2008/07/04



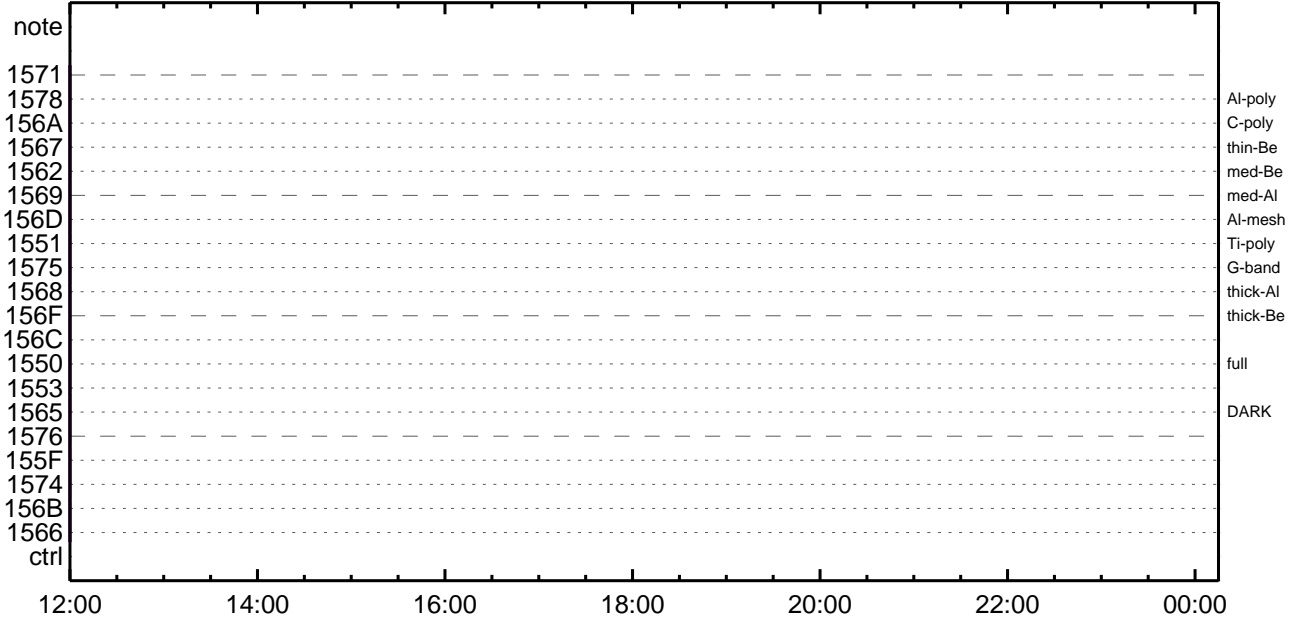
CMDI #0011 2008/07/04



CMDI #0011 2008/07/05



CMDI #0011 2008/07/05





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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-957:OP
0104 ( )
0105 S. OG og-957:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYôYx;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. YAYôYx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î½E¹ç•è²îOKò³îÇ§
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. YAYôYx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î½E¹ç•è²îOKò³îÇ§
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. YAYôYx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î½E¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** °E²¼òî½A´¶A°EÉ-ò°A÷¿@ (¼âµ-YAYôYx½E½çòðÃÔæòÇ¼ª°²òE¼i¹çòçòâ) *****
0167 C. DHUYâ;4YE;E½Y½;Yi;4YE;Eòðîã¹
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 UPLOAD²-Á÷¿@NG²î½i¹ç;ç°E²¼òîTI-CMDÁ÷¿@²î½A¹Ôª°²E²ò³òE;f
0180 C. ²²ò¿;çSET²E²DUMP²î½±°iYNY¹²ç¹Ôª|²³òE;f
0181 C.
0182 C. TIY³Y½YôYÉòðÃDî¿(UT)
0183 +. TI 2008-07-01 10:11:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2008-07-01 10:11:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2008-07-01 10:11:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

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(a) Spacecraft Operation Procedure (real-commands)

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main-959 2008-07-01 12:41:31 140 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Ü;ã
0005 C.
0006 C. YÀYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èò¿òÄò•µ°È»Í×ÁÇòíYçYÁY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈòÈ¼°ÇÒò•ò¿¼í¹çòí;çÀ®, ùò¹òÈòÈòÇÁ+¿®ò•òÈòòò³òÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG ____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR ____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 06 80 80 20 20)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 80 80 08 08)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 0f 80 80 06 06)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 10 80 80 04 04)
0048 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0049 BC (c4 10)
0050 + DC 07-F0 MDP_XRT_FLD_DIS
0051 BC (d9)
0052 + DC 07-F0 MDP_XRT_FLRCTRL_DIS
0053 BC (c9)
0054 + DC 07-F0 MDP_XRT_ARS_DIS
0055 BC (d5)
0056 . C. ----- Success Verify ? OK / NG ____
0057 C.
0058 C.
0059 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0060 C.
0061 +. DC 07-F0 MDP_XRT_MODE_OBSV
0062 BC (c2)
0063 +. TI 2008-07-01 10:15:02.0
0064 DC 07-F0 MDP_XRT_MODE_OBSV
0065 BC (c2)
0066 . C. ----- Success Verify ? OK / NG ____
0067 C.
0068 C. ***** XRT END *****
0069 . C. *****
0070 C. SOT table upload
0071 C. *****
0072 . C. < Stop FG table >
0073 +. DC 07-F0 MDP_FG_CTRL_MANU
0074 BC (51)
0075 . C. -----
0076 C. MDP_FG_CTRL_MODE = MANU [ ]
0077 C. -----
0078 C.
0079 . C. <Upload FG Observation Table>
0080 . S. RAM ram-269:MDP_OBS_F
0081 ( )
0082 C.
0083 . C. < Dump RAMID=MDP_OBS_F >
0084 +. DC 07-F0 MDP_DUMP_FGTBL
0085 BC (82 07 00 00 00 38 b8)
0086 C. -----
0087 C. MDP_OBS_F verify = OK/NG [ ]
0088 C. -----
0089 C.
0090 . C. < Upload DPL table >
0091 C.
0092 C. YçYÁY×Yí;¼YÉòíÁ°òÈÈSTS_CHKòðOFFòÈò¹òÈ
0093 C.
0094 . S. RAM ram-271:MDP_DPL
0095 ( )

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```
0096 C.
0097 . C. < Dump RAMID=MDP_DPL >
0098 +. DC 07-F0 MDP_DUMP_FGTBL
0099 BC (82 07 00 38 b8 00 40)
0100 C. -----
0101 C. MDP_DPL verify = OK [ ]
0102 C. -----
0103 C.
0104 C. STS_CHK=ON=
0105 C.
0106 . C. < Update MDP DSC PAR1 >
0107 +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0108 BC (4c)
0109 C. MDP_CMD_CODE = F04C0700[ ]
0110 C. MDP_CMD_CNT (count-up 1) [ ]
0111 C. -----
0112 C.
0113 C.
0114 . C. *****
0115 C. SOT TI command set
0116 C. *****
0117 C. Execute, after the success of TBL upload.
0118 +. TI 2008-07-01 10:15:18.0
0119 DC 07-F0 MDP_SOT_MODE_OBSV
0120 BC (40)
0121 . C. -----
0122 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0123 C. -----
0124 C.
0125 C.
0126 . C. ***** MDP 'uãîï»ö%ýãËâð¹ãèDCBC•x²è *****
0127 C. (%á°îÿÓÿÃÿÈÿßÿËÿáÿçÿèãË¼ã¼Ã»Û¹ãè)
0128 . S. DC-BC dcbc-402:DCBC
0129 (MDP_known_event)
0130 C.
0131 C.
0132 . C. ***** ¥Dÿ!•Ï Daily±¿ÍÑãË´Ø¹ãèDCBC•x²è *****
0133 . S. DC-BC dcbc-153:DCBC
0134 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0135 C.
0136 C.
0137 . C. ¡ãLOSÿÁÿ$ÿÃÿ~¼Ã»Û;ã
0138 C.
0139 . C. ***** LOS *****
0140 C.
```

Jul 01, 08 12:41

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\*\*\* OP Sequence for XRT \*\*\*

|            |            |                                   |   |       |    |    |    |    |    |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|----|
| 2008/07/01 | 10:26:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 | 00 | 00 | 00 | 00 |
| 2008/07/01 | 17:56:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/01 | 17:56:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2008/07/01 | 17:57:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2008/07/01 | 17:57:16.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 10 |    |    |    |
| 2008/07/01 | 17:57:18.0 | XRT_FLD_DIS_419_OG [0x1a3]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/01 | 17:57:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/01 | 17:57:22.0 | XRT_ARS_DIS_427_OG [0x1ab]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/01 | 17:59:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/01 | 18:06:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/01 | 18:07:00.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
| 2008/07/01 | 20:07:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 54 | 72 | 00 | 00 |
| 2008/07/01 | 20:30:00.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/01 | 20:30:02.0 | XRT_QT_PROG_SET_407_OG [0x197]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 09 |    |    |    |
| 2008/07/01 | 20:32:00.0 | XRT_FOCUS_POSITION_441_OG [0x1b9] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2008/07/01 | 20:32:20.0 | XRT_ARS_DIS_422_OG [0x1a6]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/01 | 20:32:22.0 | XRT_FLD_DIS_445_OG [0x1bd]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/01 | 20:32:24.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/01 | 20:32:26.0 | XRT_CTRL_AUTO_403_OG [0x193]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/01 | 21:26:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/01 | 22:07:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2008/07/01 | 22:08:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/01 | 23:04:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/01 | 23:41:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |    |    |    |    |    |
| 2008/07/01 | 23:42:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/02 | 00:00:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |    |    |    |    |    |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2008/07/02 | 00:00:00.5 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/02 | 00:00:02.5 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2008/07/02 | 00:00:22.5 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 04 |    |    |    |
| 2008/07/02 | 00:00:24.5 | XRT_FLD_DIS_419_OG [0x1a3]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/02 | 00:00:26.5 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/02 | 00:00:28.5 | XRT_ARS_DIS_422_OG [0x1a6]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/02 | 00:00:30.5 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/02 | 00:43:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/02 | 01:09:30.0 | XRT_Custom_421_OG [0x1a5]         |   |       |    |    |    |    |    |
| 2008/07/02 | 01:17:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/02 | 02:21:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/02 | 02:48:00.0 | XRT_Custom_421_OG [0x1a5]         |   |       |    |    |    |    |    |
| 2008/07/02 | 02:56:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/02 | 03:54:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/02 | 04:26:30.0 | XRT_Custom_421_OG [0x1a5]         |   |       |    |    |    |    |    |
| 2008/07/02 | 04:34:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/02 | 05:28:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/02 | 06:15:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/02 | 06:15:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2008/07/02 | 06:16:16.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 | 10 |    |    |    |
| 2008/07/02 | 06:16:18.0 | XRT_FLD_DIS_419_OG [0x1a3]        |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/02 | 06:16:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9 |    |    |    |    |

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|            |            |                                   |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|--|--|--|
| 2008/07/02 | 06:16:22.0 | XRT_ARS_DIS_427_OG [0x1ab]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/07/02 | 06:18:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 06:25:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 06:26:00.0 | AOCS_ORe-point_Start_5_OG [0x09b] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |  |  |  |  |
| 2008/07/02 | 06:26:00.5 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 06:26:02.5 | XRT_QT_PROG_SET_438_OG [0x1b6]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 13          |  |  |  |  |
| 2008/07/02 | 06:28:00.5 | XRT_FOCUS_POSITION_441_OG [0x1b9] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2008/07/02 | 06:28:20.5 | XRT_ARS_DIS_422_OG [0x1a6]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/07/02 | 06:28:22.5 | XRT_FLD_DIS_445_OG [0x1bd]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/07/02 | 06:28:24.5 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/07/02 | 06:28:26.5 | XRT_CTRL_AUTO_403_OG [0x193]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 07:09:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 07:43:30.0 | XRT_Custom_421_OG [0x1a5]         |   |       |                |  |  |  |  |
| 2008/07/02 | 07:51:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 08:49:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 09:22:00.0 | XRT_Custom_421_OG [0x1a5]         |   |       |                |  |  |  |  |
| 2008/07/02 | 09:30:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 10:30:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 11:00:30.0 | XRT_Custom_421_OG [0x1a5]         |   |       |                |  |  |  |  |
| 2008/07/02 | 11:08:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 12:12:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 12:39:00.0 | XRT_Custom_421_OG [0x1a5]         |   |       |                |  |  |  |  |
| 2008/07/02 | 12:47:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 13:51:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 14:17:30.0 | XRT_Custom_421_OG [0x1a5]         |   |       |                |  |  |  |  |
| 2008/07/02 | 14:25:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 15:29:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 16:16:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |
| 2008/07/02 | 16:17:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 17:08:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 17:54:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 17:54:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2008/07/02 | 17:54:30.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2008/07/02 | 17:54:46.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 10          |  |  |  |  |
| 2008/07/02 | 17:54:48.0 | XRT_FLD_DIS_419_OG [0x1a3]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/07/02 | 17:54:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/07/02 | 17:54:52.0 | XRT_ARS_DIS_427_OG [0x1ab]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/07/02 | 17:56:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 18:04:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 18:04:30.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 00 00 00 00 |  |  |  |  |
| 2008/07/02 | 20:04:30.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 54 72 00 00 |  |  |  |  |
| 2008/07/02 | 20:04:30.5 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 20:04:32.5 | XRT_QT_PROG_SET_407_OG [0x197]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 09          |  |  |  |  |
| 2008/07/02 | 20:06:30.5 | XRT_FOCUS_POSITION_441_OG [0x1b9] |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2008/07/02 | 20:06:50.5 | XRT_ARS_DIS_422_OG [0x1a6]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |  |  |  |
| 2008/07/02 | 20:06:52.5 | XRT_FLD_DIS_445_OG [0x1bd]        |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |  |  |  |
| 2008/07/02 | 20:06:54.5 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |  |  |  |
| 2008/07/02 | 20:06:56.5 | XRT_CTRL_AUTO_403_OG [0x193]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |  |  |  |
| 2008/07/02 | 20:25:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |  |  |  |
| 2008/07/02 | 21:07:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |  |  |  |  |

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|            |            |   |   |       |                |
|------------|------------|---|---|-------|----------------|
| 2008/07/02 | 21:08:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2008/07/02 | 22:03:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/02 | 22:43:30.0 | XRT_Custom_430_OG [0x1ae]                               |   |       |                |
| 2008/07/02 | 22:44:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2008/07/02 | 23:42:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/03 | 00:00:00.0 | AOCS_ORe-point_Start_5_OG [0x09b]<br>AOCU_NM            | 5 | 02-76 | 01 00 00 00 00 |
| 2008/07/03 | 00:10:30.0 | XRT_CTRL_MANU_428_OG [0x1ac]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/03 | 00:10:32.0 | XRT_QT_PROG_SET_438_OG [0x1b6]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 13          |
| 2008/07/03 | 00:12:30.0 | XRT_FOCUS_POSITION_441_OG [0x1b9]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00    |
| 2008/07/03 | 00:12:50.0 | XRT_ARS_DIS_422_OG [0x1a6]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2008/07/03 | 00:12:52.0 | XRT_FLD_DIS_445_OG [0x1bd]<br>MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2008/07/03 | 00:12:54.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]<br>MDP_XRT_FLRCTRL_DIS   | 1 | 07-F0 | c9             |
| 2008/07/03 | 00:12:56.0 | XRT_CTRL_AUTO_403_OG [0x193]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2008/07/03 | 01:20:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/03 | 01:47:00.0 | XRT_Custom_421_OG [0x1a5]                               |   |       |                |
| 2008/07/03 | 01:55:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2008/07/03 | 02:57:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/03 | 03:25:30.0 | XRT_Custom_421_OG [0x1a5]                               |   |       |                |
| 2008/07/03 | 03:33:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2008/07/03 | 04:26:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/03 | 05:04:00.0 | XRT_Custom_421_OG [0x1a5]                               |   |       |                |
| 2008/07/03 | 05:12:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2008/07/03 | 05:39:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/03 | 05:39:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]<br>XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00    |
| 2008/07/03 | 05:39:30.0 | AOCS_ORe-point_Start_2_OG [0x098]<br>AOCU_NM            | 5 | 02-76 | 00 00 00 00 00 |
| 2008/07/03 | 05:39:46.0 | XRT_QT_PROG_SET_420_OG [0x1a4]<br>MDP_XRT_QT_PROG_SET   | 2 | 07-F0 | c4 10          |
| 2008/07/03 | 05:39:48.0 | XRT_FLD_DIS_419_OG [0x1a3]<br>MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2008/07/03 | 05:39:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]<br>MDP_XRT_FLRCTRL_DIS   | 1 | 07-F0 | c9             |
| 2008/07/03 | 05:39:52.0 | XRT_ARS_DIS_427_OG [0x1ab]<br>MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2008/07/03 | 05:41:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc]<br>MDP_XRT_CTRL_AUTO       | 1 | 07-F0 | c0             |
| 2008/07/03 | 05:49:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/03 | 05:49:30.0 | AOCS_ORe-point_Start_5_OG [0x09b]<br>AOCU_NM            | 5 | 02-76 | 01 00 00 00 00 |
| 2008/07/03 | 11:39:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]<br>MDP_XRT_CTRL_MANU       | 1 | 07-F0 | c1             |
| 2008/07/03 | 11:40:00.0 | AOCS_ORe-point_Start_2_OG [0x098]<br>AOCU_NM            | 5 | 02-76 | 00 00 00 00 00 |