

# XRT Timeline to be uploaded on 2008/07/12

Period: 2008/07/12 10:34:00 - 2008/07/17 09:52:00

\* \* \* \* \*

Normal mode

\* \* \* \* \*

| XOB #158F: Star Cal - Context - Q90 - G-band(16ms)+C/Poly(12s) |                |                      |       |      |       |       |   |     |                    |              |       |                     |
|--|----------------|----------------------|-------|------|-------|-------|---|-----|--------------------|--------------|-------|---------------------|
| Term   |                | Pointing (x, y)      |       |      |       |       | Comment   |     |                    |              |       |                     |
| 07/12 10:52:06 - 07/12 10:57:54                                |                | Fixed ( 0.0, -940.0) |       |      |       |       | # OP start + 10min, X-ray star observations by XRT, cont. |     |                    |              |       |                     |
| PROG= 17 1-time(s)   |                |                      |       |      |       |       |   |     |                    |              |       |                     |
| └─ Subr= 1 1-time(s) 8.0sec                                    |                |                      |       |      |       |       |   |     |                    |              |       |                     |
| └─ Seqn= 53 1-time(s) 4.0sec                                   |                |                      |       |      |       |       |   |     |                    |              |       |                     |
|  | Open/G-band    | Open/G-band          | open  | Safe | Norm  | 16ms  | Obs   | 2x2 | 2048x2048          | (1024, 1024) | Q=90  | 0 0 2.0sec          |
| └─ Seqn= 86 1-time(s) 4.0sec                                   |                |                      |       |      |       |       |   |     |                    |              |       |                     |
|  | C-poly/Open    | C-poly/Open          | close | Safe | Norm  | 11.3s | 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 #158B: Star Cal - 63 Gem - C/Poly (23s) + dark - 2x2 - DPCM - ROI_3 |                |                      |       |      |       |       |   |     |                    |            |       |                     |
|---|----------------|----------------------|-------|------|-------|-------|---|-----|--------------------|------------|-------|---------------------|
| Term  |                | Pointing (x, y)      |       |      |       |       | Comment   |     |                    |            |       |                     |
| 07/12 11:00:00 - 07/12 14:29:54   |                | Fixed ( 0.0, -940.0) |       |      |       |       | # OP start + 10min, X-ray star observations by XRT, cont. |     |                    |            |       |                     |
| PROG= 11 Inf.-time(s)   |                |                      |       |      |       |       |   |     |                    |            |       |                     |
| └─ Subr= 1 1-time(s) 780.0sec   |                |                      |       |      |       |       |   |     |                    |            |       |                     |
| └─ Seqn= 22 1-time(s) 25.0sec   |                |                      |       |      |       |       |   |     |                    |            |       |                     |
|   | C-poly/Open    | C-poly/Open          | close | Safe | Dark  | 22.6s | Obs   | 2x2 | 512x256            | (512, 384) | DPCM  | 0 0 5.0sec          |
| └─ Seqn= 69 30-time(s) 25.0sec  |                |                      |       |      |       |       |   |     |                    |            |       |                     |
|   | C-poly/Open    | C-poly/Open          | close | Safe | Norm  | 22.6s | Obs   | 2x2 | 512x256            | (512, 384) | DPCM  | 0 0 5.0sec          |
|   | Default Filter | Thicker Filter       | VLS   | mode | image | Exp.  | CCD   | Bin | ROI: size (center) |            | Comp. | AEC Buffer Interval |

| XOB #152F: G-Band Alignment with North Pole Q90 2x2(G-band only) - 8min cadence |                |                     |      |      |       |      |                      |     |                    |             |       |                     |
|---|----------------|---------------------|------|------|-------|------|----------------------|-----|--------------------|-------------|-------|---------------------|
| Term  |                | Pointing (x, y)     |      |      |       |      | Comment              |     |                    |             |       |                     |
| 07/12 14:45:00 - 07/12 18:04:54   |                | Fixed ( 0.0, 945.0) |      |      |       |      | * Offset alignment N |     |                    |             |       |                     |
| PROG= 06 1-time(s)  |                |                     |      |      |       |      |                      |     |                    |             |       |                     |
| └─ Subr= 1 1-time(s) 360.0sec   |                |                     |      |      |       |      |                      |     |                    |             |       |                     |
| └─ Seqn= 58 13-time(s) 480.0sec   |                |                     |      |      |       |      |                      |     |                    |             |       |                     |
|   | Open/G-band    | Open/G-band         | open | Safe | Norm  | 16ms | Obs                  | 2x2 | 2048x1536          | (1024, 768) | Q=90  | 0 0 2.0sec          |
|   | Default Filter | Thicker Filter      | VLS  | mode | image | Exp. | CCD                  | Bin | ROI: size (center) |             | Comp. | AEC Buffer Interval |

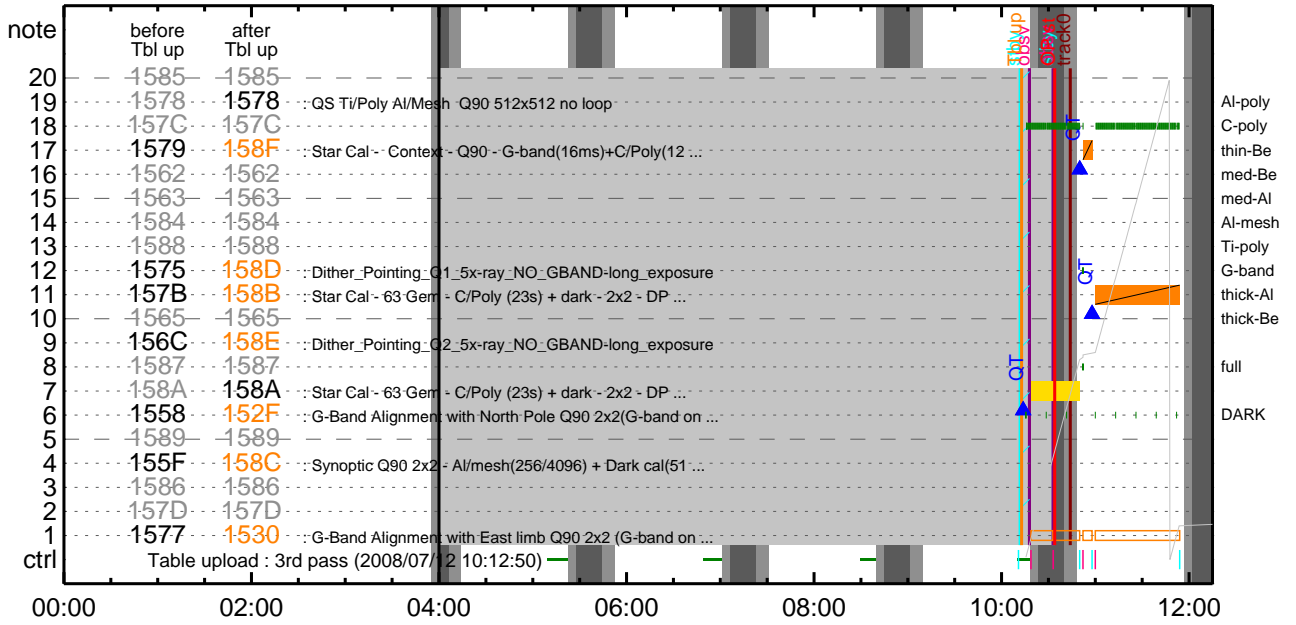
| XOB #158C: Synoptic Q90 2x2 - Al/mesh(256/4096) + Dark cal(512 Q98) + Ti-poly(512/8192) + G-band(16) |                |                   |       |      |       |       |                            |     |                    |              |       |                     |
|--|----------------|-------------------|-------|------|-------|-------|----------------------------|-----|--------------------|--------------|-------|---------------------|
| Term   |                | Pointing (x, y)   |       |      |       |       | Comment                    |     |                    |              |       |                     |
| 07/12 18:07:00 - 07/12 18:14:54  |                | Fixed ( 0.0, 0.0) |       |      |       |       | synoptic, shifted 5.0 min  |     |                    |              |       |                     |
| 07/13 06:35:00 - 07/13 06:42:54  |                | Fixed ( 0.0, 0.0) |       |      |       |       | synoptic, shifted 33.0 min |     |                    |              |       |                     |
| 07/13 18:13:00 - 07/13 18:20:54  |                | Fixed ( 0.0, 0.0) |       |      |       |       | synoptic, shifted 11.0 min |     |                    |              |       |                     |
| 07/14 05:59:30 - 07/14 06:07:24  |                | Fixed ( 0.0, 0.0) |       |      |       |       | synoptic, shifted -2.5 min |     |                    |              |       |                     |
| 07/14 17:54:30 - 07/14 18:02:24  |                | Fixed ( 0.0, 0.0) |       |      |       |       | synoptic, shifted -7.5 min |     |                    |              |       |                     |
| 07/15 06:11:00 - 07/15 06:18:54  |                | Fixed ( 0.0, 0.0) |       |      |       |       | synoptic, shifted 9.0 min  |     |                    |              |       |                     |
| PROG= 04 1-time(s)   |                |                   |       |      |       |       |                            |     |                    |              |       |                     |
| └─ Subr= 1 1-time(s) 12.0sec   |                |                   |       |      |       |       |                            |     |                    |              |       |                     |
| └─ Seqn= 80 1-time(s) 4.0sec   |                |                   |       |      |       |       |                            |     |                    |              |       |                     |
|  | 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  | 4.00s | Obs                        | 2x2 | 2048x2048          | (1024, 1024) | Q=90  | 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= 81 1-time(s) 4.0sec   |                |                   |       |      |       |       |                            |     |                    |              |       |                     |
|  | 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  | 8.00s | Obs                        | 2x2 | 2048x2048          | (1024, 1024) | Q=90  | 0 0 2.0sec          |
| └─ Seqn= 46 1-time(s) 2.0sec   |                |                   |       |      |       |       |                            |     |                    |              |       |                     |
|  | 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 #1530: G-Band Alignment with East limb Q90 2x2 (G-band only) - 8 min cadence |                |                      |      |      |       |      |                       |     |                    |              |       |                     |
|--|----------------|----------------------|------|------|-------|------|-----------------------|-----|--------------------|--------------|-------|---------------------|
| Term   |                | Pointing (x, y)      |      |      |       |      | Comment               |     |                    |              |       |                     |
| 07/12 18:30:00 - 07/13 06:32:54  |                | Fixed ( -945.0, 0.0) |      |      |       |      | # Offset alignment E. |     |                    |              |       |                     |
| PROG= 01 1-time(s)   |                |                      |      |      |       |      |                       |     |                    |              |       |                     |
| └─ Subr= 1 1-time(s) 360.0sec  |                |                      |      |      |       |      |                       |     |                    |              |       |                     |
| └─ Seqn= 30 13-time(s) 480.0sec  |                |                      |      |      |       |      |                       |     |                    |              |       |                     |
|  | Open/G-band    | Open/G-band          | open | Safe | Norm  | 16ms | Obs                   | 2x2 | 1536x2048          | (1280, 1024) | Q=90  | 0 0 2.0sec          |
|  | Default Filter | Thicker Filter       | VLS  | mode | image | Exp. | CCD                   | Bin | ROI: size (center) |              | Comp. | AEC Buffer Interval |

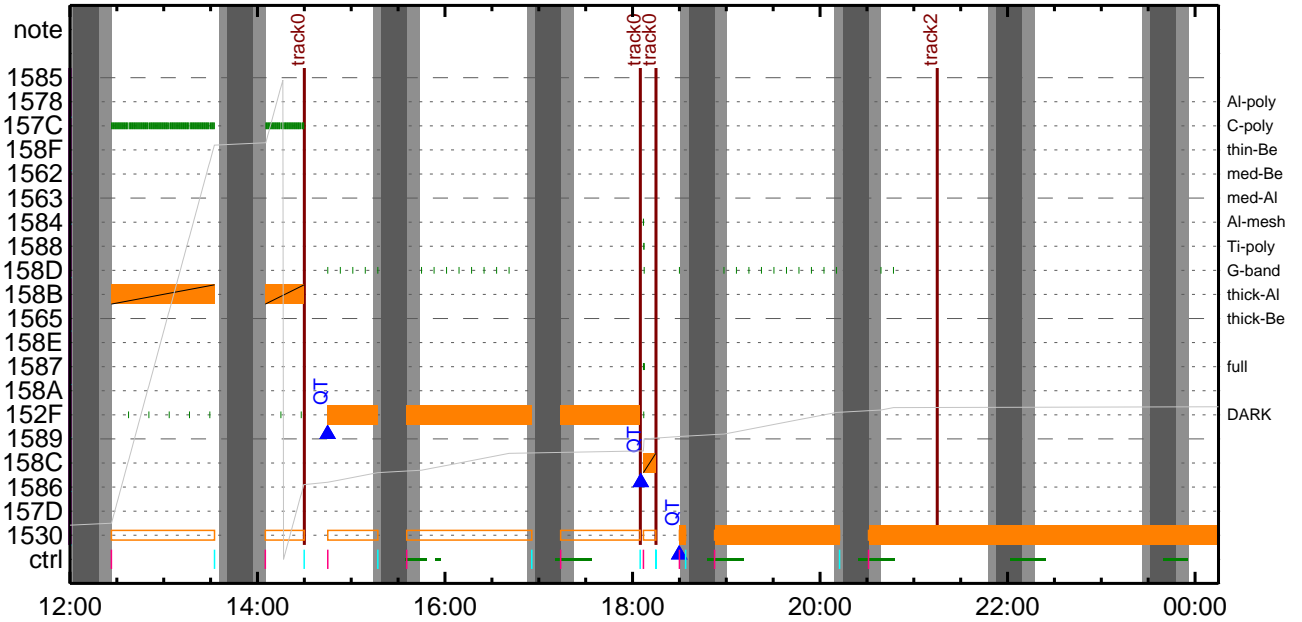
| XOB #1578: QS Ti/Poly Al/Mesh Q90 512x512 no loop |  |                                       |  |  |  |  |             |  |  |  |  |  |
|---|--|---------------------------------------|--|--|--|--|-------------|--|--|--|--|--|
| Term  |  | Pointing (x, y)                       |  |  |  |  | Comment     |  |  |  |  |  |
| 07/13 06:45:20 - 07/13 18:10:54                   |  | Track ( -148.6, 2.0) @ 07/13 06:43:00 |  |  |  |  | # Quiet Sun |  |  |  |  |  |
| 07/13 18:23:20 - 07/14 00:00:00                   |  | Track ( -42.6, 0.5) @ 07/13 18:21:00  |  |  |  |  | # Cont.     |  |  |  |  |  |
| PROG= 19 Inf.-time(s)                             |  |                                       |  |  |  |  |             |  |  |  |  |  |
| └─ Subr= 1 30-time(s) 2.0sec                      |  |                                       |  |  |  |  |             |  |  |  |  |  |
| └─ Seqn= 68 1-time(s) 60.0sec                     |  |                                       |  |  |  |  |             |  |  |  |  |  |



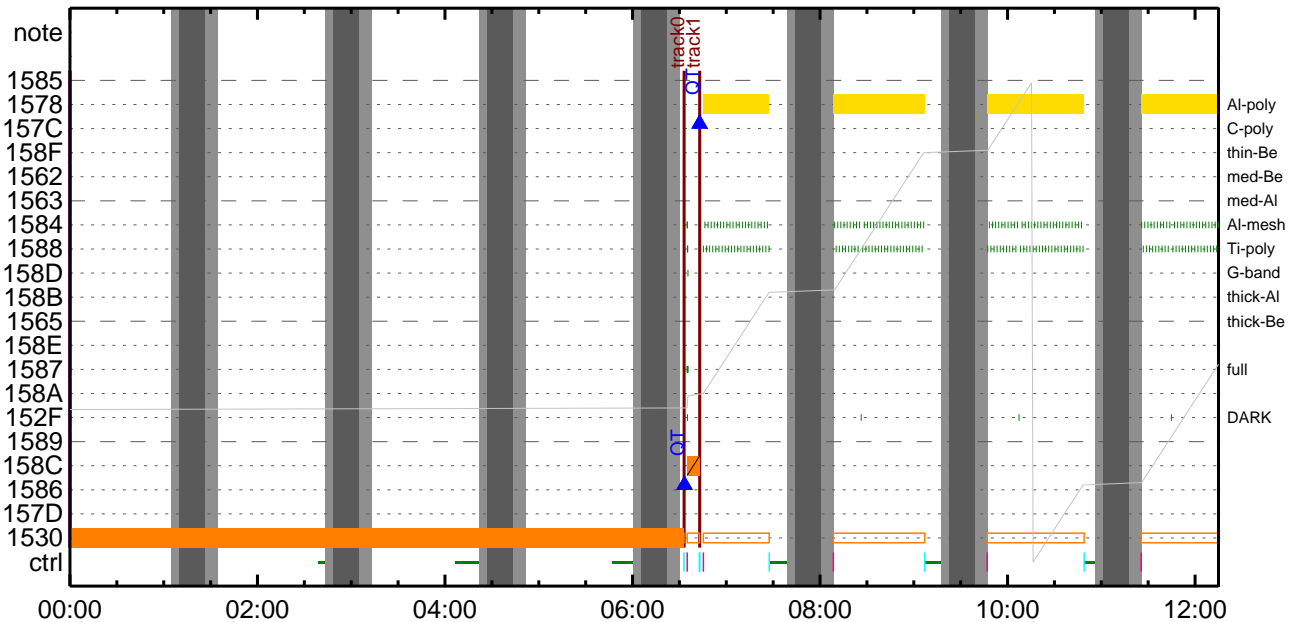
### CMDI #0030 2008/07/12



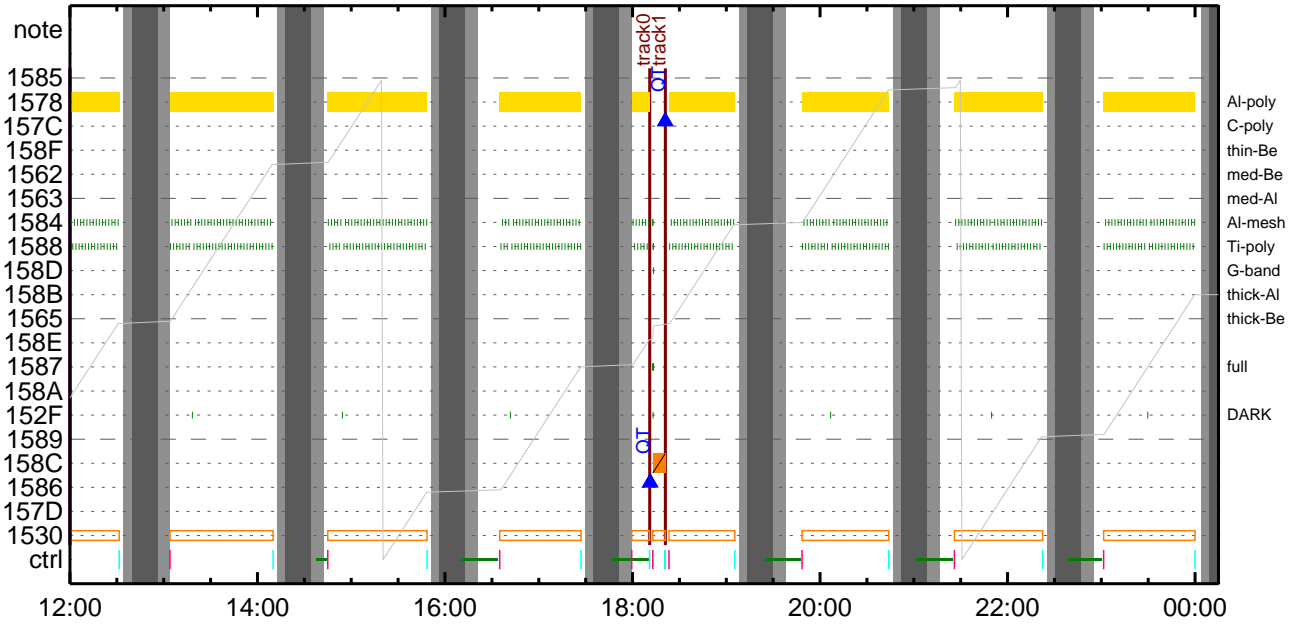
### CMDI #0030 2008/07/12



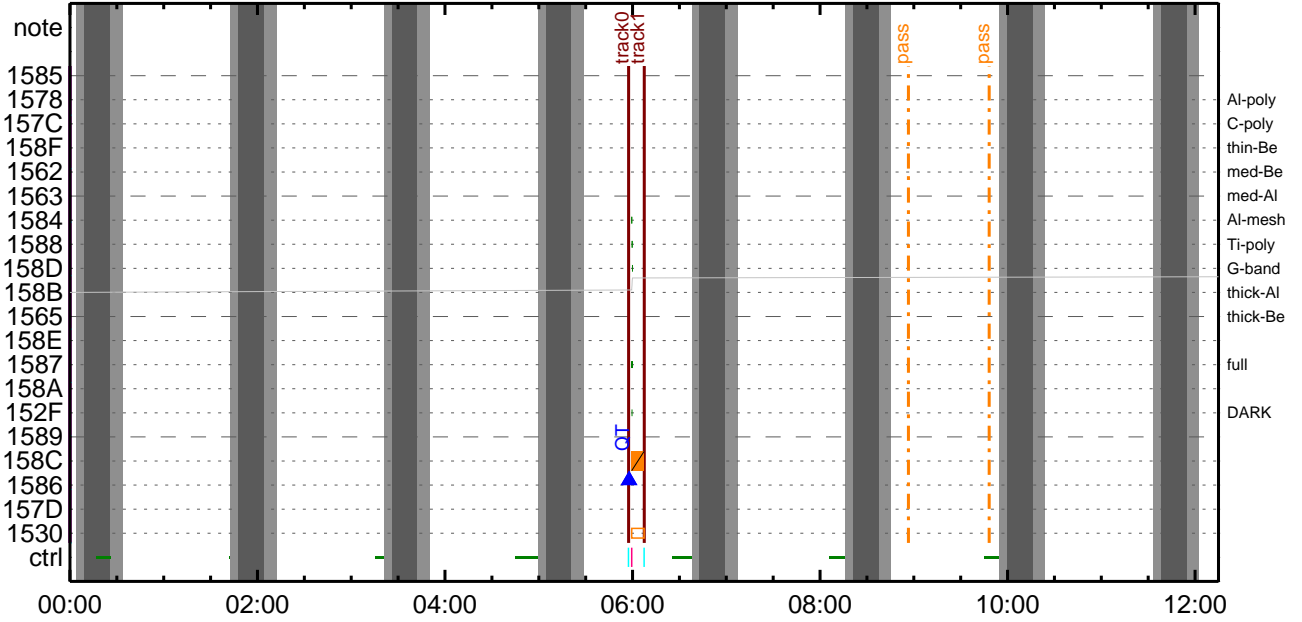
### CMDI #0030 2008/07/13



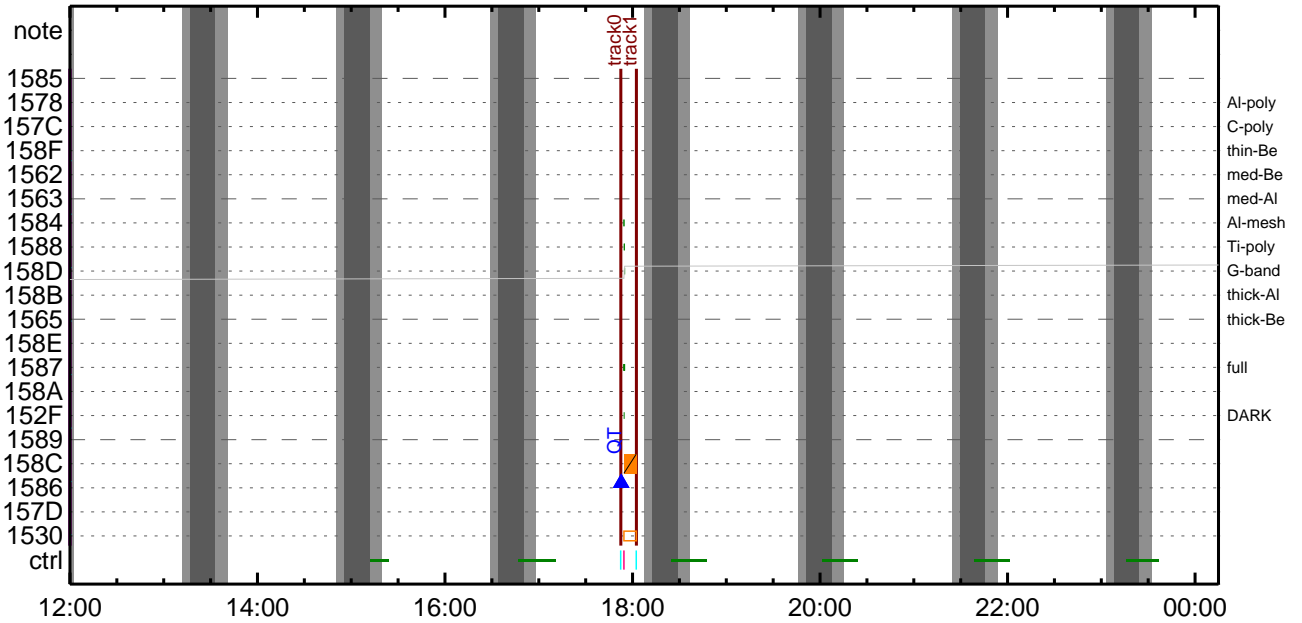
CMDI #0030 2008/07/13



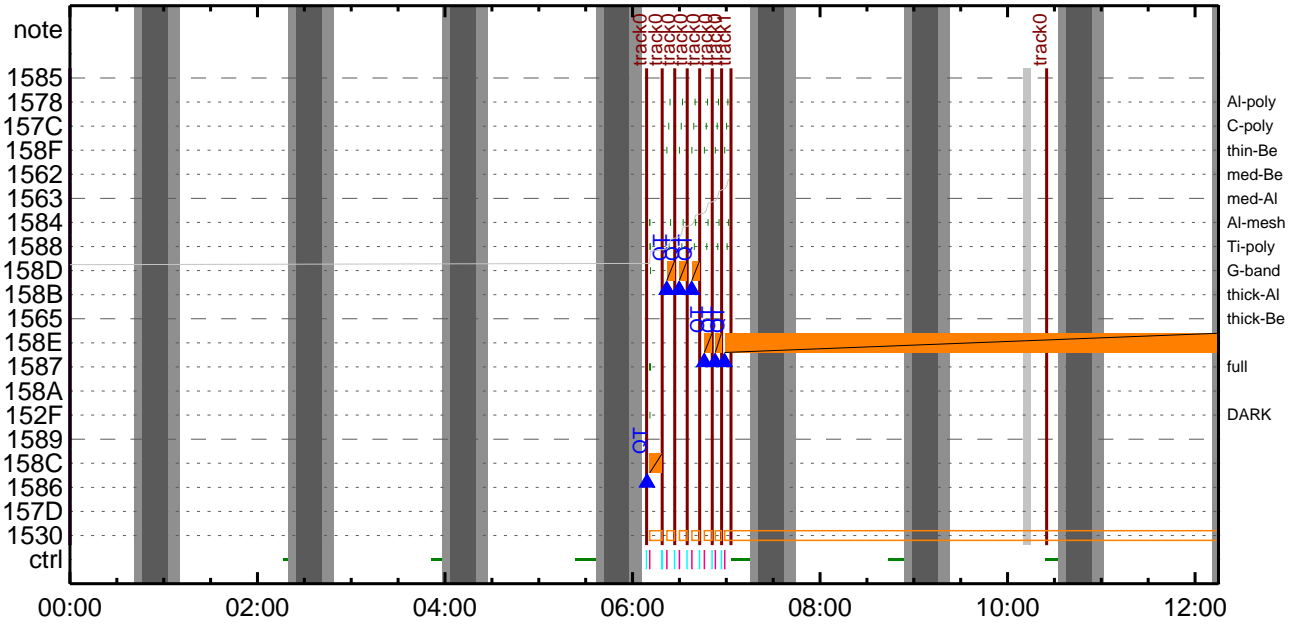
CMDI #0030 2008/07/14



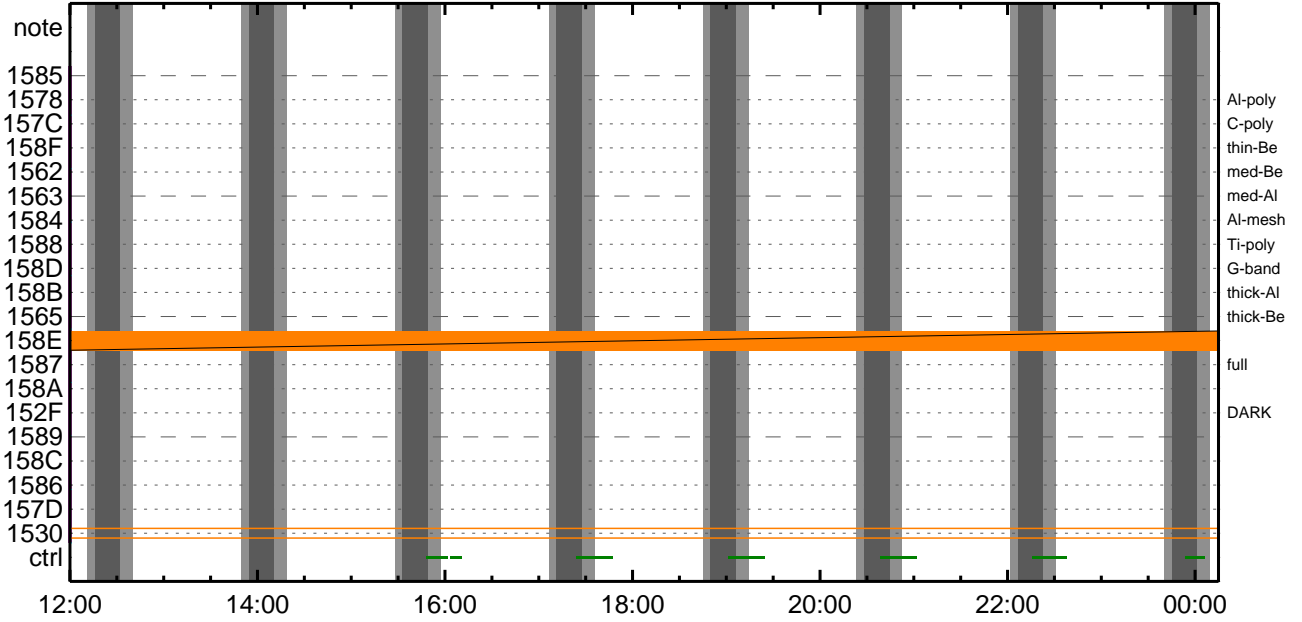
CMDI #0030 2008/07/14



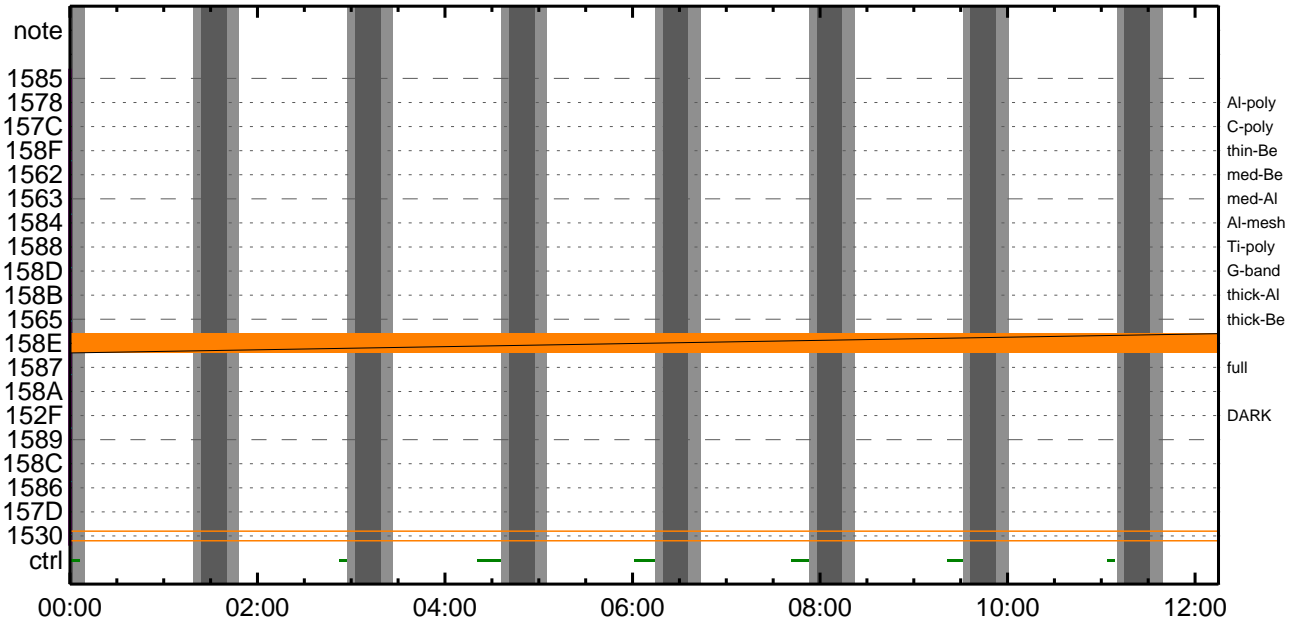
CMDI #0030 2008/07/15



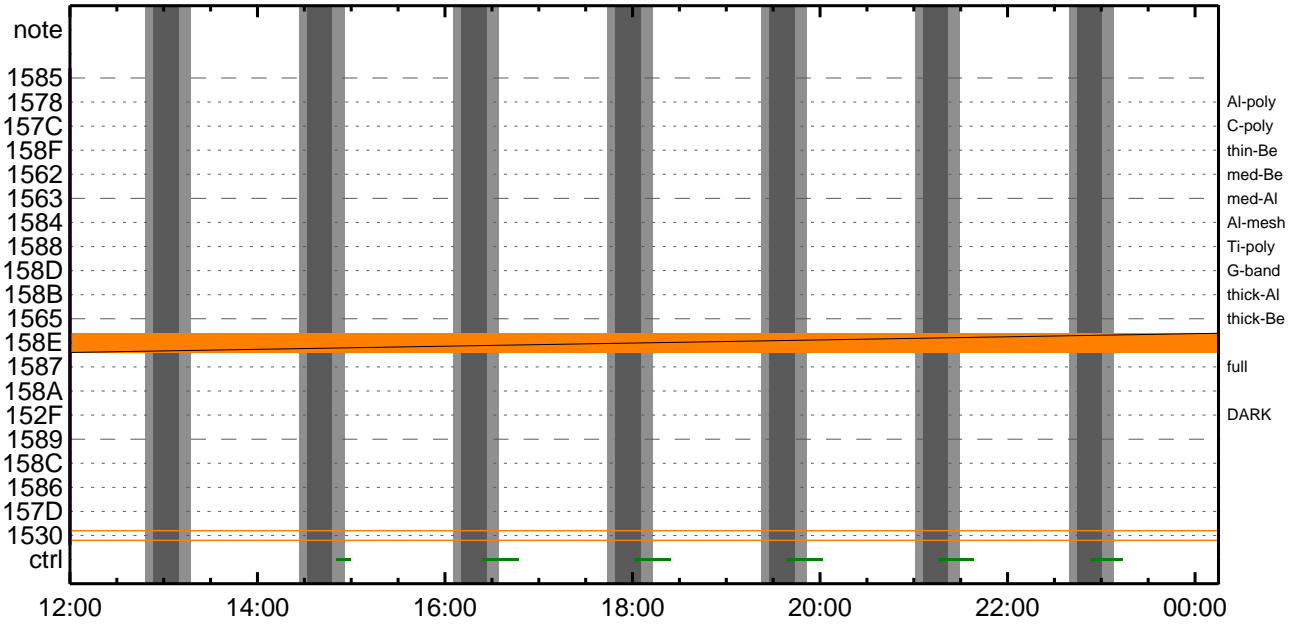
CMDI #0030 2008/07/15



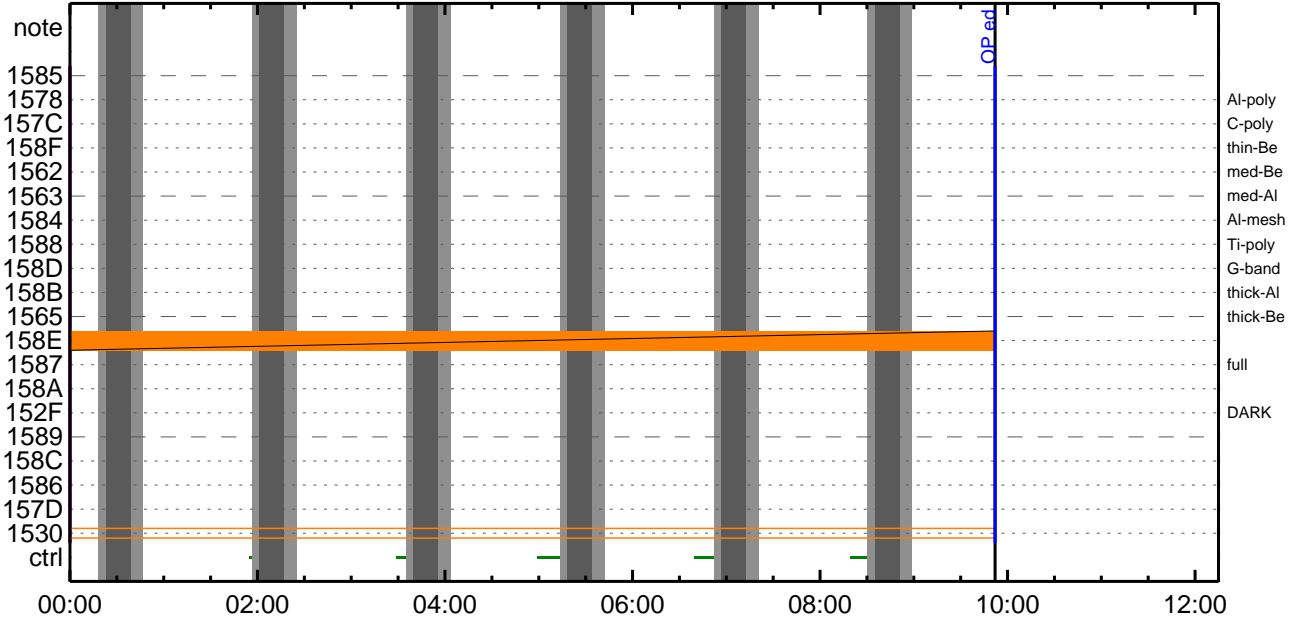
CMDI #0030 2008/07/16



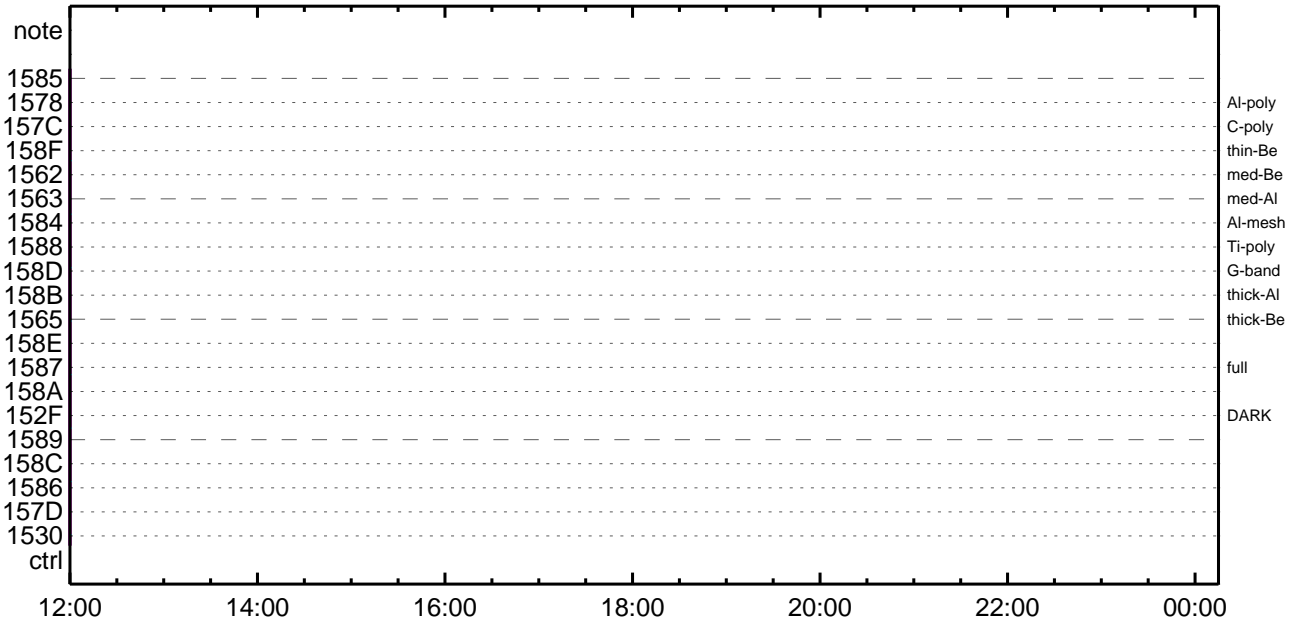
CMDI #0030 2008/07/16



CMDI #0030 2008/07/17



CMDI #0030 2008/07/17









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0194 C.
0195 +. TI 2008-07-12 10:33:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          çç[HK1_TI_CMD_NUM]          EQ      1COUNTUP
0198 C.
0199 C. °Ê²¼αîÄë%îíñαîî¥Ä¥§¥Ä¥-¹àîü
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. TIîî°è¥Ä¥Ö¥×
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. ¥Ä¥Ö¥×½ªî»αò³îç§
0226 C.          çç[HK1_DMP_CHK_FLG]        EQ      NON
0227 C.
0228 C. RAM ID=TI_TBLαîî¾È¹ç•è²îOKαò³îç§
0229 C.
0230 C. DHU¥â;¼¥É;È¼¥½. ¥î;¼¥È;Èαòîãα¹
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 2008-07-12 10:33:16.0
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 2008-07-12 10:33:30.0
0256 DC 07-FC EIS_MODE_MANU
0257 BC      (21 02)
0258 +. TI 2008-07-12 10:33:40.0
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 2008-07-12 10:33:00.0
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 ´ûÄîαî»ö¼ÝαÈÄα¹αèDCBC•x²è *****
0276 C. (¼á°îî¥Ö¥Ä¥È¥¥¥È¥á¥ç¥èèÈ¼αα¼Ä»Ûα¹αè)
0277 S. DC-BC dcbc-402:DCBC
0278 (MDP_known_event)
0279 C.
0280 C.
0281 C. ***** ¥Ð¥¹•î Daily±çîñαè'Øα¹αèDCBC•x²è *****
0282 S. DC-BC dcbc-153:DCBC
0283 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284 C.
0285 C.
0286 C. ;ãLOS¥Ä¥§¥Ä¥-¼Ä»Û;ã
0287 C.
0288 C. ***** LOS *****
0289 C.

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Jul 12, 08 11:52

## XRT\_OGLIST\_0030.chk

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

|            |            |                                   |   |       |    |    |    |    |             |
|------------|------------|-----------------------------------|---|-------|----|----|----|----|-------------|
| 2008/07/12 | 10:44:00.0 | AOCS_Ore-point_Start_1_OG [0x097] |   |       |    |    |    |    |             |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 | 53 | 8d | 00 | 00          |
| 2008/07/12 | 10:50:00.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 10:50:02.0 | XRT_QT_PROG_SET_423_OG [0x1a7]    |   |       |    |    |    |    |             |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 |    |    |    |    | c4 11       |
| 2008/07/12 | 10:51:40.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] |   |       |    |    |    |    |             |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 |    |    |    |    | 22 ff aa 00 |
| 2008/07/12 | 10:52:00.0 | XRT_ARS_DIS_422_OG [0x1a6]        |   |       |    |    |    |    |             |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 |    |    |    |    | d5          |
| 2008/07/12 | 10:52:02.0 | XRT_FLD_DIS_445_OG [0x1bd]        |   |       |    |    |    |    |             |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 |    |    |    |    | d9          |
| 2008/07/12 | 10:52:04.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    |   |       |    |    |    |    |             |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 |    |    |    |    | c9          |
| 2008/07/12 | 10:52:06.0 | XRT_CTRL_AUTO_403_OG [0x193]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 |    |    |    |    | c0          |
| 2008/07/12 | 10:57:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 10:57:56.0 | XRT_QT_PROG_SET_409_OG [0x199]    |   |       |    |    |    |    |             |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 |    |    |    |    | c4 0b       |
| 2008/07/12 | 10:59:34.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] |   |       |    |    |    |    |             |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 |    |    |    |    | 22 ff aa 00 |
| 2008/07/12 | 10:59:54.0 | XRT_ARS_DIS_422_OG [0x1a6]        |   |       |    |    |    |    |             |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 |    |    |    |    | d5          |
| 2008/07/12 | 10:59:56.0 | XRT_FLD_DIS_445_OG [0x1bd]        |   |       |    |    |    |    |             |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 |    |    |    |    | d9          |
| 2008/07/12 | 10:59:58.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    |   |       |    |    |    |    |             |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 |    |    |    |    | c9          |
| 2008/07/12 | 11:00:00.0 | XRT_CTRL_AUTO_403_OG [0x193]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 |    |    |    |    | c0          |
| 2008/07/12 | 11:54:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 12:18:30.0 | XRT_Custom_421_OG [0x1a5]         |   |       |    |    |    |    |             |
| 2008/07/12 | 12:26:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 |    |    |    |    | c0          |
| 2008/07/12 | 13:32:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 13:57:00.0 | XRT_Custom_421_OG [0x1a5]         |   |       |    |    |    |    |             |
| 2008/07/12 | 14:05:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 |    |    |    |    | c0          |
| 2008/07/12 | 14:29:54.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 14:30:00.0 | AOCS_Ore-point_Start_2_OG [0x098] |   |       |    |    |    |    |             |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 |    |    |    | ac 00 00 00 |
| 2008/07/12 | 14:44:32.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |    |    |    |    |             |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 |    |    |    |    | 22 fe 97 00 |
| 2008/07/12 | 14:44:52.0 | XRT_QT_PROG_SET_431_OG [0x1af]    |   |       |    |    |    |    |             |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 |    |    |    |    | c4 06       |
| 2008/07/12 | 14:44:54.0 | XRT_FLD_DIS_419_OG [0x1a3]        |   |       |    |    |    |    |             |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 |    |    |    |    | d9          |
| 2008/07/12 | 14:44:56.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    |   |       |    |    |    |    |             |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 |    |    |    |    | c9          |
| 2008/07/12 | 14:44:58.0 | XRT_ARS_DIS_418_OG [0x1a2]        |   |       |    |    |    |    |             |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 |    |    |    |    | d5          |
| 2008/07/12 | 14:45:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 |    |    |    |    | c0          |
| 2008/07/12 | 15:17:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 15:35:30.0 | XRT_Custom_421_OG [0x1a5]         |   |       |    |    |    |    |             |
| 2008/07/12 | 15:35:30.5 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 |    |    |    |    | c0          |
| 2008/07/12 | 16:55:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 17:14:00.0 | XRT_Custom_421_OG [0x1a5]         |   |       |    |    |    |    |             |
| 2008/07/12 | 17:14:00.5 | XRT_CTRL_AUTO_432_OG [0x1b0]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 |    |    |    |    | c0          |
| 2008/07/12 | 18:04:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 18:04:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] |   |       |    |    |    |    |             |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 |    |    |    |    | 22 ff aa 00 |
| 2008/07/12 | 18:05:00.0 | AOCS_Ore-point_Start_3_OG [0x099] |   |       |    |    |    |    |             |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 |    |    |    | 00 00 00 00 |
| 2008/07/12 | 18:05:16.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |    |    |    |    |             |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 |    |    |    |    | c4 04       |
| 2008/07/12 | 18:05:18.0 | XRT_FLD_DIS_419_OG [0x1a3]        |   |       |    |    |    |    |             |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 |    |    |    |    | d9          |
| 2008/07/12 | 18:05:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    |   |       |    |    |    |    |             |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 |    |    |    |    | c9          |
| 2008/07/12 | 18:05:22.0 | XRT_ARS_DIS_427_OG [0x1ab]        |   |       |    |    |    |    |             |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 |    |    |    |    | d5          |
| 2008/07/12 | 18:07:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 |    |    |    |    | c0          |
| 2008/07/12 | 18:14:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 18:14:54.5 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |    |    |    |    |             |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 |    |    |    |    | c1          |
| 2008/07/12 | 18:15:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] |   |       |    |    |    |    |             |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 |    |    |    | 00 00 54 00 |
| 2008/07/12 | 18:29:32.5 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |    |    |    |    |             |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 |    |    |    |    | 22 fe 97 00 |
| 2008/07/12 | 18:29:52.5 | XRT_QT_PROG_SET_400_OG [0x190]    |   |       |    |    |    |    |             |

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|            |            |                                    |                     |   |       |       |          |
|------------|------------|------------------------------------|---------------------|---|-------|-------|----------|
| 2008/07/12 | 18:29:54.5 | XRT_FLD_DIS_419_OG [0x1a3]         | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4    | 01       |
|            |            |                                    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9    |          |
| 2008/07/12 | 18:29:56.5 | XRT_FLRCTRL_DIS_447_OG [0x1bf]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9    |          |
| 2008/07/12 | 18:29:58.5 | XRT_ARS_DIS_418_OG [0x1a2]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5    |          |
| 2008/07/12 | 18:30:00.5 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/12 | 18:34:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/12 | 18:52:30.0 | XRT_Custom_421_OG [0x1a5]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/12 | 18:52:30.5 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/12 | 20:12:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/12 | 20:31:00.0 | XRT_Custom_421_OG [0x1a5]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/12 | 20:31:00.5 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/12 | 21:15:00.0 | AOCS_Or-e-point_Start_5_OG [0x09b] | AOCU_NM             | 5 | 02-76 | 02 02 | a7 00 00 |
| 2008/07/13 | 06:32:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 06:32:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff | aa 00    |
| 2008/07/13 | 06:33:00.0 | AOCS_Or-e-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 00 00 | 00 00 00 |
| 2008/07/13 | 06:33:16.0 | XRT_QT_PROG_SET_446_OG [0x1be]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4    | 04       |
| 2008/07/13 | 06:33:18.0 | XRT_FLD_DIS_419_OG [0x1a3]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9    |          |
| 2008/07/13 | 06:33:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9    |          |
| 2008/07/13 | 06:33:22.0 | XRT_ARS_DIS_427_OG [0x1ab]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5    |          |
| 2008/07/13 | 06:35:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 06:42:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 06:42:54.5 | XRT_CTRL_MANU_428_OG [0x1ac]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 06:42:56.5 | XRT_QT_PROG_SET_438_OG [0x1b6]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4    | 13       |
| 2008/07/13 | 06:43:00.0 | AOCS_Or-e-point_Start_6_OG [0x09c] | AOCU_NM             | 5 | 02-76 | 01 00 | 00 00 00 |
| 2008/07/13 | 06:44:54.5 | XRT_FOCUS_POSITION_441_OG [0x1b9]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe | 97 00    |
| 2008/07/13 | 06:45:14.5 | XRT_ARS_DIS_422_OG [0x1a6]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5    |          |
| 2008/07/13 | 06:45:16.5 | XRT_FLD_DIS_445_OG [0x1bd]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9    |          |
| 2008/07/13 | 06:45:18.5 | XRT_FLRCTRL_DIS_416_OG [0x1a0]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9    |          |
| 2008/07/13 | 06:45:20.5 | XRT_CTRL_AUTO_403_OG [0x193]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 07:27:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 08:00:30.0 | XRT_Custom_421_OG [0x1a5]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 08:08:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 09:07:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 09:39:00.0 | XRT_Custom_421_OG [0x1a5]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 09:47:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 10:49:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 11:17:30.0 | XRT_Custom_421_OG [0x1a5]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 11:25:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 12:31:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 12:56:00.0 | XRT_Custom_421_OG [0x1a5]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 13:04:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 14:10:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 14:44:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 14:45:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 15:48:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 16:34:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 16:35:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 17:27:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 17:51:30.0 | XRT_Custom_421_OG [0x1a5]          | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 17:59:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0    |          |
| 2008/07/13 | 18:10:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1    |          |
| 2008/07/13 | 18:10:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]  |                     |   |       |       |          |

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|            |            |                                   |                     |   |       |    |    |    |    |
|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|----|
| 2008/07/13 | 18:11:00.0 | AOCS_ORe-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |
|            |            |                                   | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2008/07/13 | 18:11:16.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 |    |    |
| 2008/07/13 | 18:11:18.0 | XRT_FLD_DIS_419_OG [0x1a3]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |    |
| 2008/07/13 | 18:11:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |    |
| 2008/07/13 | 18:11:22.0 | XRT_ARS_DIS_427_OG [0x1ab]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2008/07/13 | 18:13:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2008/07/13 | 18:20:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/13 | 18:20:54.5 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/13 | 18:20:56.5 | XRT_QT_PROG_SET_438_OG [0x1b6]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 13 |    |    |
| 2008/07/13 | 18:21:00.0 | AOCS_ORe-point_Start_6_OG [0x09c] | AOCU_NM             | 5 | 02-76 | 01 | 00 | 00 | 00 |
| 2008/07/13 | 18:22:54.5 | XRT_FOCUS_POSITION_441_OG [0x1b9] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00 |
| 2008/07/13 | 18:23:14.5 | XRT_ARS_DIS_422_OG [0x1a6]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2008/07/13 | 18:23:16.5 | XRT_FLD_DIS_445_OG [0x1bd]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |    |
| 2008/07/13 | 18:23:18.5 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |    |
| 2008/07/13 | 18:23:20.5 | XRT_CTRL_AUTO_403_OG [0x193]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2008/07/13 | 19:05:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/13 | 19:47:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |    |
| 2008/07/13 | 19:48:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2008/07/13 | 20:44:00.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/13 | 21:25:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |    |
| 2008/07/13 | 21:26:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2008/07/13 | 22:22:30.0 | XRT_CTRL_MANU_435_OG [0x1b3]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/13 | 23:00:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |    |    |    |    |
| 2008/07/13 | 23:01:30.0 | XRT_CTRL_AUTO_432_OG [0x1b0]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2008/07/14 | 00:00:00.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/14 | 05:57:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/14 | 05:57:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2008/07/14 | 05:57:30.0 | AOCS_ORe-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2008/07/14 | 05:57:46.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 |    |    |
| 2008/07/14 | 05:57:48.0 | XRT_FLD_DIS_419_OG [0x1a3]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |    |
| 2008/07/14 | 05:57:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |    |
| 2008/07/14 | 05:57:52.0 | XRT_ARS_DIS_427_OG [0x1ab]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2008/07/14 | 05:59:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2008/07/14 | 06:07:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/14 | 06:07:30.0 | AOCS_ORe-point_Start_6_OG [0x09c] | AOCU_NM             | 5 | 02-76 | 01 | 00 | 00 | 00 |
| 2008/07/14 | 17:52:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/14 | 17:52:26.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2008/07/14 | 17:52:30.0 | AOCS_ORe-point_Start_3_OG [0x099] | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 |
| 2008/07/14 | 17:52:46.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 |    |    |
| 2008/07/14 | 17:52:48.0 | XRT_FLD_DIS_419_OG [0x1a3]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |    |
| 2008/07/14 | 17:52:50.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |    |
| 2008/07/14 | 17:52:52.0 | XRT_ARS_DIS_427_OG [0x1ab]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |    |
| 2008/07/14 | 17:54:30.0 | XRT_CTRL_AUTO_444_OG [0x1bc]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |    |
| 2008/07/14 | 18:02:24.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/14 | 18:02:30.0 | AOCS_ORe-point_Start_6_OG [0x09c] | AOCU_NM             | 5 | 02-76 | 01 | 00 | 00 | 00 |
| 2008/07/15 | 06:08:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |    |
| 2008/07/15 | 06:08:56.0 | XRT_FOCUS_POSITION_442_OG [0x1ba] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00 |
| 2008/07/15 | 06:09:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |                     |   |       |    |    |    |    |

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|            |            |                                    |   |       |    |    |    |    |    |
|------------|------------|------------------------------------|---|-------|----|----|----|----|----|
| 2008/07/15 | 06:09:16.0 | XRT_QT_PROG_SET_446_OG [0x1be]     | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
|            |            | MDP_XRT_QT_PROG_SET                | 2 | 07-F0 | c4 |    |    |    | 04 |
| 2008/07/15 | 06:09:18.0 | XRT_FLD_DIS_419_OG [0x1a3]         | 1 | 07-F0 | d9 |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/15 | 06:09:20.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]     | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/15 | 06:09:22.0 | XRT_ARS_DIS_427_OG [0x1ab]         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/15 | 06:11:00.0 | XRT_CTRL_AUTO_444_OG [0x1bc]       | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/15 | 06:18:54.0 | XRT_CTRL_MANU_428_OG [0x1ac]       | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/15 | 06:18:54.5 | XRT_CTRL_MANU_405_OG [0x195]       | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 5 | 02-76 | 00 | 2e | f9 | 2e | f9 |
| 2008/07/15 | 06:19:00.0 | AOCS_ORe-point_Start_7_OG [0x09d]  | 5 | 02-76 | 00 | 2e | f9 | 2e | f9 |
|            |            | AOCU_NM                            | 4 | 07-F8 | 22 | ff | aa |    | 00 |
| 2008/07/15 | 06:21:32.5 | XRT_FOCUS_POSITION_442_OG [0x1ba]  | 4 | 07-F8 | 22 | ff | aa |    | 00 |
|            |            | XRT_FOCUS_POSITION                 | 2 | 07-F0 | c4 |    |    |    | 0c |
| 2008/07/15 | 06:21:52.5 | XRT_QT_PROG_SET_429_OG [0x1ad]     | 2 | 07-F0 | c4 |    |    |    | 0c |
|            |            | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/15 | 06:21:54.5 | XRT_FLD_DIS_419_OG [0x1a3]         | 1 | 07-F0 | d9 |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/15 | 06:21:56.5 | XRT_FLRCTRL_DIS_447_OG [0x1bf]     | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/15 | 06:21:58.5 | XRT_ARS_DIS_418_OG [0x1a2]         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/15 | 06:22:00.5 | XRT_CTRL_AUTO_432_OG [0x1b0]       | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/15 | 06:26:54.0 | XRT_CTRL_MANU_405_OG [0x195]       | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 5 | 02-76 | 00 | 2c | f5 | 30 | 28 |
| 2008/07/15 | 06:27:00.0 | AOCS_ORe-point_Start_8_OG [0x09e]  | 5 | 02-76 | 00 | 2c | f5 | 30 | 28 |
|            |            | AOCU_NM                            | 4 | 07-F8 | 22 | ff | aa |    | 00 |
| 2008/07/15 | 06:29:32.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]  | 4 | 07-F8 | 22 | ff | aa |    | 00 |
|            |            | XRT_FOCUS_POSITION                 | 2 | 07-F0 | c4 |    |    |    | 0c |
| 2008/07/15 | 06:29:52.0 | XRT_QT_PROG_SET_429_OG [0x1ad]     | 2 | 07-F0 | c4 |    |    |    | 0c |
|            |            | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/15 | 06:29:54.0 | XRT_FLD_DIS_419_OG [0x1a3]         | 1 | 07-F0 | d9 |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/15 | 06:29:56.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]     | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/15 | 06:29:58.0 | XRT_ARS_DIS_418_OG [0x1a2]         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/15 | 06:30:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/15 | 06:34:54.0 | XRT_CTRL_MANU_405_OG [0x195]       | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 5 | 02-76 | 00 | 2f | f7 | 31 | 2f |
| 2008/07/15 | 06:35:00.0 | AOCS_ORe-point_Start_9_OG [0x09f]  | 5 | 02-76 | 00 | 2f | f7 | 31 | 2f |
|            |            | AOCU_NM                            | 4 | 07-F8 | 22 | ff | aa |    | 00 |
| 2008/07/15 | 06:37:32.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]  | 4 | 07-F8 | 22 | ff | aa |    | 00 |
|            |            | XRT_FOCUS_POSITION                 | 2 | 07-F0 | c4 |    |    |    | 0c |
| 2008/07/15 | 06:37:52.0 | XRT_QT_PROG_SET_429_OG [0x1ad]     | 2 | 07-F0 | c4 |    |    |    | 0c |
|            |            | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/15 | 06:37:54.0 | XRT_FLD_DIS_419_OG [0x1a3]         | 1 | 07-F0 | d9 |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/15 | 06:37:56.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]     | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/15 | 06:37:58.0 | XRT_ARS_DIS_418_OG [0x1a2]         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/15 | 06:38:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/15 | 06:42:54.0 | XRT_CTRL_MANU_405_OG [0x195]       | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 5 | 02-76 | 00 | 2e | f9 | d1 | 07 |
| 2008/07/15 | 06:43:00.0 | AOCS_ORe-point_Start_10_OG [0x0a0] | 5 | 02-76 | 00 | 2e | f9 | d1 | 07 |
|            |            | AOCU_NM                            | 4 | 07-F8 | 22 | ff | aa |    | 00 |
| 2008/07/15 | 06:45:32.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]  | 4 | 07-F8 | 22 | ff | aa |    | 00 |
|            |            | XRT_FOCUS_POSITION                 | 2 | 07-F0 | c4 |    |    |    | 09 |
| 2008/07/15 | 06:45:52.0 | XRT_QT_PROG_SET_407_OG [0x197]     | 2 | 07-F0 | c4 |    |    |    | 09 |
|            |            | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/15 | 06:45:54.0 | XRT_FLD_DIS_419_OG [0x1a3]         | 1 | 07-F0 | d9 |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/15 | 06:45:56.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]     | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/15 | 06:45:58.0 | XRT_ARS_DIS_418_OG [0x1a2]         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/15 | 06:46:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c1 |    |    |    |    |
| 2008/07/15 | 06:50:54.0 | XRT_CTRL_MANU_417_OG [0x1a1]       | 1 | 07-F0 | c1 |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                  | 5 | 02-76 | 00 | 2d | f3 | d1 | 82 |
| 2008/07/15 | 06:51:00.0 | AOCS_ORe-point_Start_11_OG [0x0a1] | 5 | 02-76 | 00 | 2d | f3 | d1 | 82 |
|            |            | AOCU_NM                            | 4 | 07-F8 | 22 | ff | aa |    | 00 |
| 2008/07/15 | 06:52:32.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]  | 4 | 07-F8 | 22 | ff | aa |    | 00 |
|            |            | XRT_FOCUS_POSITION                 | 2 | 07-F0 | c4 |    |    |    | 09 |
| 2008/07/15 | 06:52:52.0 | XRT_QT_PROG_SET_407_OG [0x197]     | 2 | 07-F0 | c4 |    |    |    | 09 |
|            |            | MDP_XRT_QT_PROG_SET                | 1 | 07-F0 | d9 |    |    |    |    |
| 2008/07/15 | 06:52:54.0 | XRT_FLD_DIS_419_OG [0x1a3]         | 1 | 07-F0 | d9 |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                    | 1 | 07-F0 | c9 |    |    |    |    |
| 2008/07/15 | 06:52:56.0 | XRT_FLRCTRL_DIS_447_OG [0x1bf]     | 1 | 07-F0 | c9 |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS                | 1 | 07-F0 | d5 |    |    |    |    |
| 2008/07/15 | 06:52:58.0 | XRT_ARS_DIS_418_OG [0x1a2]         | 1 | 07-F0 | d5 |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2008/07/15 | 06:53:00.0 | XRT_CTRL_AUTO_432_OG [0x1b0]       | 1 | 07-F0 | c0 |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                  |   |       |    |    |    |    |    |

