

# XRT Timeline to be uploaded on 2010/06/08

Period: 2010/06/08 11:15:00 - 2010/06/12 10:41:00

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Normal mode

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| XOB #17CE: Axion_Study_no-AEC_Thick-Be-20s-2 |  |                                       |                |       |      |  |       |     |     |                        |       |                     |
|--|--|---------------------------------------|----------------|-------|------|--|-------|-----|-----|------------------------|-------|---------------------|
| Term   |  | Pointing (x, y)                       |                |       |      | Comment                                      |       |     |     |                        |       |                     |
| 06/08 11:28:00 - 06/08 17:13:30              |  | Track ( -115.7, 1.0) @ 06/08 11:25:00 |                |       |      | # OP start + 10min QS deep exposure with AIA |       |     |     |                        |       |                     |
| 06/08 18:11:30 - 06/09 05:43:24              |  | Track ( -54.0, 0.4) @ 06/08 18:08:30  |                |       |      | #Cont QS deep exposure                       |       |     |     |                        |       |                     |
| 06/09 05:56:30 - 06/09 11:16:30              |  | Track ( -54.3, -0.5) @ 06/09 05:53:30 |                |       |      | #Cont QS                                     |       |     |     |                        |       |                     |
| <b>PROG= 18 Inf.-time(s)</b>                 |  |                                       |                |       |      |  |       |     |     |                        |       |                     |
| └─ Subr= 1 1-time(s) 2.0sec                  |  |                                       |                |       |      |  |       |     |     |                        |       |                     |
| └─ Seqn= 15 1-time(s) 30.0sec                |  |                                       |                |       |      |  |       |     |     |                        |       |                     |
|  |  | Open/thick-Be                         | Open/thick-Be  | close | Safe | Norm   | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | DPCM  | 0 0 2.0sec          |
| └─ Seqn= 20 30-time(s) 65.0sec               |  |                                       |                |       |      |  |       |     |     |                        |       |                     |
|  |  | Open/thick-Be                         | Open/thick-Be  | close | Safe | Norm   | 22.6s | Obs | 4x4 | 2048x2048 (1024, 1024) | DPCM  | 0 0 2.0sec          |
| └─ Subr= 2 1-time(s) 2.0sec                  |  |                                       |                |       |      |  |       |     |     |                        |       |                     |
| └─ Seqn= 27 1-time(s) 4.0sec                 |  |                                       |                |       |      |  |       |     |     |                        |       |                     |
|  |  | Open/thick-Be                         | Open/thick-Be  | close | Safe | Dark   | 22.6s | Obs | 2x2 | 2048x2048 (1024, 1024) | DPCM  | 0 0 2.0sec          |
|  |  | Open/thick-Be                         | Open/thick-Be  | close | Safe | Dark   | 22.6s | Obs | 4x4 | 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 #17B9: Synoptic Q95 2x2 - Al/mesh(16/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(33/2048) + G-band(16) |  |                   |                |       |      |                             |       |     |     |                        |       |                     |
|---|--|-------------------|----------------|-------|------|-----------------------------|-------|-----|-----|------------------------|-------|---------------------|
| Term  |  | Pointing (x, y)   |                |       |      | Comment                     |       |     |     |                        |       |                     |
| 06/08 18:06:04 - 06/08 18:08:24   |  | Fixed ( 0.0, 0.0) |                |       |      | synoptic, shifted -1.5 min  |       |     |     |                        |       |                     |
| 06/09 05:46:30 - 06/09 05:53:24   |  | Fixed ( 0.0, 0.0) |                |       |      | synoptic, shifted -16.5 min |       |     |     |                        |       |                     |
| 06/09 17:39:00 - 06/09 17:45:54   |  | Fixed ( 0.0, 0.0) |                |       |      | synoptic, shifted -24.0 min |       |     |     |                        |       |                     |
| 06/10 07:33:00 - 06/10 07:39:54   |  | Fixed ( 0.0, 0.0) |                |       |      | synoptic manually           |       |     |     |                        |       |                     |
| <b>PROG= 15 1-time(s)</b>   |  |                   |                |       |      |                             |       |     |     |                        |       |                     |
| └─ Subr= 1 1-time(s) 12.0sec  |  |                   |                |       |      |                             |       |     |     |                        |       |                     |
| └─ Seqn= 80 1-time(s) 4.0sec  |  |                   |                |       |      |                             |       |     |     |                        |       |                     |
|   |  | Open/Al-mesh      | Open/Al-mesh   | close | Safe | Norm                        | 16ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   |  | Open/Al-mesh      | Open/Al-mesh   | close | Safe | Norm                        | 1.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0 0 2.0sec          |
| └─ Seqn= 5 1-time(s) 2.0sec   |  |                   |                |       |      |                             |       |     |     |                        |       |                     |
|   |  | Open/Ti-poly      | Open/thick-Al  | close | Safe | Dark                        | 500ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=98  | 0 0 2.0sec          |
|   |  | Open/Ti-poly      | Open/thick-Al  | close | Safe | Dark                        | 500ms | Obs | 4x4 | 2048x2048 (1024, 1024) | Q=98  | 0 0 2.0sec          |
|   |  | Open/Ti-poly      | Open/thick-Al  | close | Safe | Dark                        | 500ms | Obs | 8x8 | 2048x2048 (1024, 1024) | Q=98  | 0 0 2.0sec          |
|   |  | Open/Ti-poly      | Open/thick-Al  | close | Safe | Dark                        | 500ms | Obs | 1x1 | 2048x512 (1024, 1024)  | DPCM  | 0 0 2.0sec          |
|   |  | Open/Ti-poly      | Open/thick-Al  | close | Safe | Dark                        | 500ms | Obs | 1x1 | 512x2048 (1024, 1024)  | DPCM  | 0 0 2.0sec          |
| └─ Seqn= 81 1-time(s) 4.0sec  |  |                   |                |       |      |                             |       |     |     |                        |       |                     |
|   |  | Open/Ti-poly      | Open/Ti-poly   | close | Safe | Norm                        | 32ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   |  | Open/Ti-poly      | Open/Ti-poly   | close | Safe | Norm                        | 2.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0 0 2.0sec          |
| └─ Seqn= 4 1-time(s) 2.0sec   |  |                   |                |       |      |                             |       |     |     |                        |       |                     |
|   |  | Open/G-band       | Open/G-band    | open  | Safe | Norm                        | 16ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0 0 2.0sec          |
|   |  | Default Filter    | Thicker Filter | VLS   | mode | image                       | Exp.  | CCD | Bin | ROI: size (center)     | Comp. | AEC Buffer Interval |

| XOB #17CD: Polar crown -Ti/Poly (16s) 784x384 |  |  |                |       |      |                       |       |     |     |                      |       |                     |
|---|--|--|----------------|-------|------|-----------------------|-------|-----|-----|----------------------|-------|---------------------|
| Term  |  | Pointing (x, y)                        |                |       |      | Comment               |       |     |     |                      |       |                     |
| 06/09 11:50:06 - 06/09 17:35:54               |  | Track ( 384.2, 673.5) @ 06/09 11:30:00 |                |       |      | On disk filament Obs. |       |     |     |                      |       |                     |
| <b>PROG= 10 Inf.-time(s)</b>                  |  |  |                |       |      |                       |       |     |     |                      |       |                     |
| └─ Subr= 1 8-time(s) 300.0sec                 |  |  |                |       |      |                       |       |     |     |                      |       |                     |
| └─ Seqn= 29 1-time(s) 120.0sec                |  |  |                |       |      |                       |       |     |     |                      |       |                     |
|   |  | Open/Ti-poly                           | Open/Ti-poly   | close | Safe | Norm                  | 22.6s | Obs | 1x1 | 768x384 (1024, 1024) | Q=95  | 0 0 600.0sec        |
| └─ Subr= 2 1-time(s) 2.0sec                   |  |  |                |       |      |                       |       |     |     |                      |       |                     |
| └─ Seqn= 64 1-time(s) 2.0sec                  |  |  |                |       |      |                       |       |     |     |                      |       |                     |
|   |  | Open/G-band                            | Open/G-band    | open  | Safe | Norm                  | 63ms  | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 0 0 2.0sec          |
| └─ Seqn= 30 1-time(s) 2.0sec                  |  |  |                |       |      |                       |       |     |     |                      |       |                     |
|   |  | Open/thick-Al                          | Open/thick-Al  | close | Safe | Norm                  | 22.6s | Obs | 1x1 | 768x384 (1024, 1024) | Q=95  | 0 0 30.0sec         |
|   |  | Default Filter                         | Thicker Filter | VLS   | mode | image                 | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer Interval |

| XOB #16AC: G-Band Alignment with North Pole Q90 2x2(G-band only) - 5min cadence - Partial Sun-wNGT |  |                     |                |      |      |                               |      |     |     |                       |       |                     |
|--|--|---------------------|----------------|------|------|-------------------------------|------|-----|-----|-----------------------|-------|---------------------|
| Term   |  | Pointing (x, y)     |                |      |      | Comment                       |      |     |     |                       |       |                     |
| 06/09 17:49:00 - 06/09 19:29:00  |  | Fixed ( 0.0, 945.0) |                |      |      | #Coalignment study North pole |      |     |     |                       |       |                     |
| <b>PROG= 16 1-time(s)</b>  |  |                     |                |      |      |                               |      |     |     |                       |       |                     |
| └─ Subr= 1 1-time(s) 360.0sec  |  |                     |                |      |      |                               |      |     |     |                       |       |                     |
| └─ Seqn= 3 24-time(s) 300.0sec   |  |                     |                |      |      |                               |      |     |     |                       |       |                     |
|  |  | 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 #16AD: G-Band Alignment with East limb Q90 2x2 (G-band only) - 8 min cadence-wNGT |  |                      |  |  |  |                       |  |  |  |  |  |  |
|---|--|----------------------|--|--|--|-----------------------|--|--|--|--|--|--|
| Term  |  | Pointing (x, y)      |  |  |  | Comment               |  |  |  |  |  |  |
| 06/09 20:14:06 - 06/09 21:07:30   |  | Fixed ( -945.0, 0.0) |  |  |  | Coalignment East limb |  |  |  |  |  |  |
| <b>PROG= 20 1-time(s)</b>   |  |                      |  |  |  |                       |  |  |  |  |  |  |
| └─ Subr= 1 1-time(s) 360.0sec   |  |                      |  |  |  |                       |  |  |  |  |  |  |
| └─ Seqn= 28 15-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 #17CB: HOP146 2-filter - Ti/poly 8s, Al/mesh 4s, G-band - 512FOV 15min cadence - Q90-AEC2**

| Term                            | Pointing (x, y)                        | Comment                               |
|---------------------------------|--|---------------------------------------|
| 06/09 21:51:06 - 06/10 02:02:30 | Track ( 150.0, 300.0) @ 06/09 21:46:00 | HOP 146 Solar wind sources, tracking. |
| 06/10 02:38:06 - 06/10 06:49:30 | Fixed ( 0.0, -870.0)                   | HOP 146 SW South CH boundary          |
| 06/10 07:43:00 - 06/10 10:00:00 | Fixed ( 50.0, -900.0)                  | # CH boundary obs for S-pole          |

**PROG= 07 Inf.-time(s)**

|                |                |           |          |       |       |     |     |                      |       |            |          |        |
|----------------|----------------|-----------|----------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 1        |                | 1-time(s) | 2.0sec   |       |       |     |     |                      |       |            |          |        |
| Seqn= 64       |                | 1-time(s) | 2.0sec   |       |       |     |     |                      |       |            |          |        |
| Open/G-band    | Open/G-band    | open      | Safe     | Norm  | 63ms  | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| Subr= 2        |                | 4-time(s) | 900.0sec |       |       |     |     |                      |       |            |          |        |
| Seqn= 83       |                | 2-time(s) | 30.0sec  |       |       |     |     |                      |       |            |          |        |
| Open/Al-mesh   | Open/Al-mesh   | close     | Safe     | Norm  | 4.00s | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 2          | 0        | 2.0sec |
| Open/Ti-poly   | Open/Ti-poly   | close     | Safe     | Norm  | 8.00s | Obs | 1x1 | 512x512 (1024, 1024) | Q=90  | 2          | 0        | 2.0sec |
| Default Filter | Thicker Filter | VLS       | mode     | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

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**Flare mode**

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**XOB #1776: Flare Response short exp at first- Dynamics - Thick-Al - Thick-Be - AEC 1 - 384x384 - Q95**

| Term                            | Pointing (x, y)                        | Comment                                      |
|---------------------------------|--|--|
| 06/08 11:28:00 - 06/08 17:13:30 | Track ( -115.7, 1.0) @ 06/08 11:25:00  | # OP start + 10min QS deep exposure with AIA |
| 06/08 18:11:30 - 06/09 05:43:24 | Track ( -54.0, 0.4) @ 06/08 18:08:30   | #Cont QS deep exposure                       |
| 06/09 05:56:30 - 06/09 11:16:30 | Track ( 54.3, -0.5) @ 06/09 05:53:30   | #Cont QS                                     |
| 06/09 11:50:06 - 06/09 17:35:54 | Track ( 384.2, 673.5) @ 06/09 11:30:00 | On disk filament Obs.                        |
| 06/09 21:51:06 - 06/10 02:02:30 | Track ( 150.0, 300.0) @ 06/09 21:46:00 | HOP 146 Solar wind sources, tracking.        |
| 06/10 02:38:06 - 06/10 06:49:30 | Fixed ( 0.0, -870.0)                   | HOP 146 SW South CH boundary                 |
| 06/10 07:43:00 - 06/10 10:00:00 | Fixed ( 50.0, -900.0)                  | # CH boundary obs for S-pole                 |

**PROG= 13 1-time(s)**

|                |                |            |          |       |       |     |     |                      |       |            |          |        |
|----------------|----------------|------------|----------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Subr= 1        |                | 2-time(s)  | 2.0sec   |       |       |     |     |                      |       |            |          |        |
| Seqn= 9        |                | 15-time(s) | 20.0sec  |       |       |     |     |                      |       |            |          |        |
| Open/thick-Al  | Open/thick-Al  | close      | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 1          | 0        | 2.0sec |
| Open/thick-Be  | Open/thick-Be  | close      | Safe     | Norm  | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 1          | 0        | 2.0sec |
| Seqn= 2        |                | 1-time(s)  | 4.0sec   |       |       |     |     |                      |       |            |          |        |
| Open/G-band    | Open/G-band    | open       | Safe     | Norm  | 63ms  | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Subr= 2        |                | 8-time(s)  | 2.0sec   |       |       |     |     |                      |       |            |          |        |
| Seqn= 9        |                | 15-time(s) | 60.0sec  |       |       |     |     |                      |       |            |          |        |
| Open/thick-Al  | Open/thick-Al  | close      | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 1          | 0        | 2.0sec |
| Open/thick-Be  | Open/thick-Be  | close      | Safe     | Norm  | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 1          | 0        | 2.0sec |
| Seqn= 2        |                | 1-time(s)  | 4.0sec   |       |       |     |     |                      |       |            |          |        |
| Open/G-band    | Open/G-band    | open       | Safe     | Norm  | 63ms  | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Subr= 3        |                | 25-time(s) | 2.0sec   |       |       |     |     |                      |       |            |          |        |
| Seqn= 9        |                | 1-time(s)  | 600.0sec |       |       |     |     |                      |       |            |          |        |
| Open/thick-Al  | Open/thick-Al  | close      | Safe     | Norm  | 250ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 1          | 0        | 2.0sec |
| Open/thick-Be  | Open/thick-Be  | close      | Safe     | Norm  | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 1          | 0        | 2.0sec |
| Seqn= 2        |                | 1-time(s)  | 4.0sec   |       |       |     |     |                      |       |            |          |        |
| Open/G-band    | Open/G-band    | open       | Safe     | Norm  | 63ms  | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| Default Filter | Thicker Filter | VLS        | mode     | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

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**Active Region Search**

\* \* \* \* \*

NOT USED

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**Flare Detection**

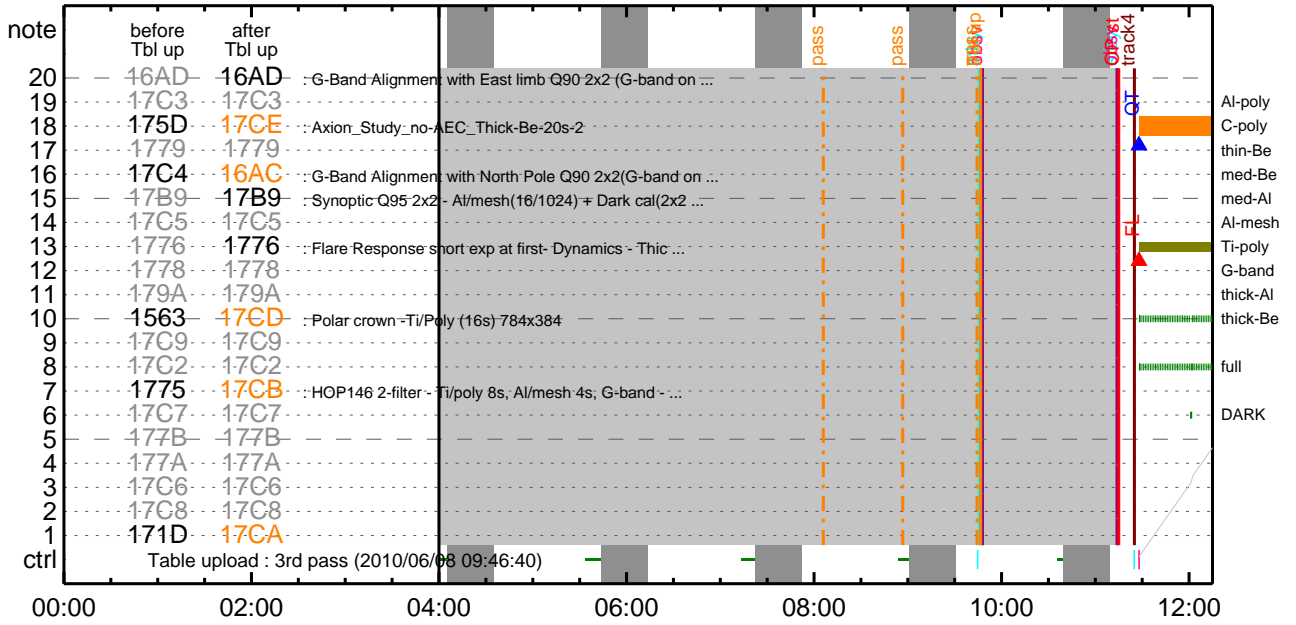
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**FLD Patrol**

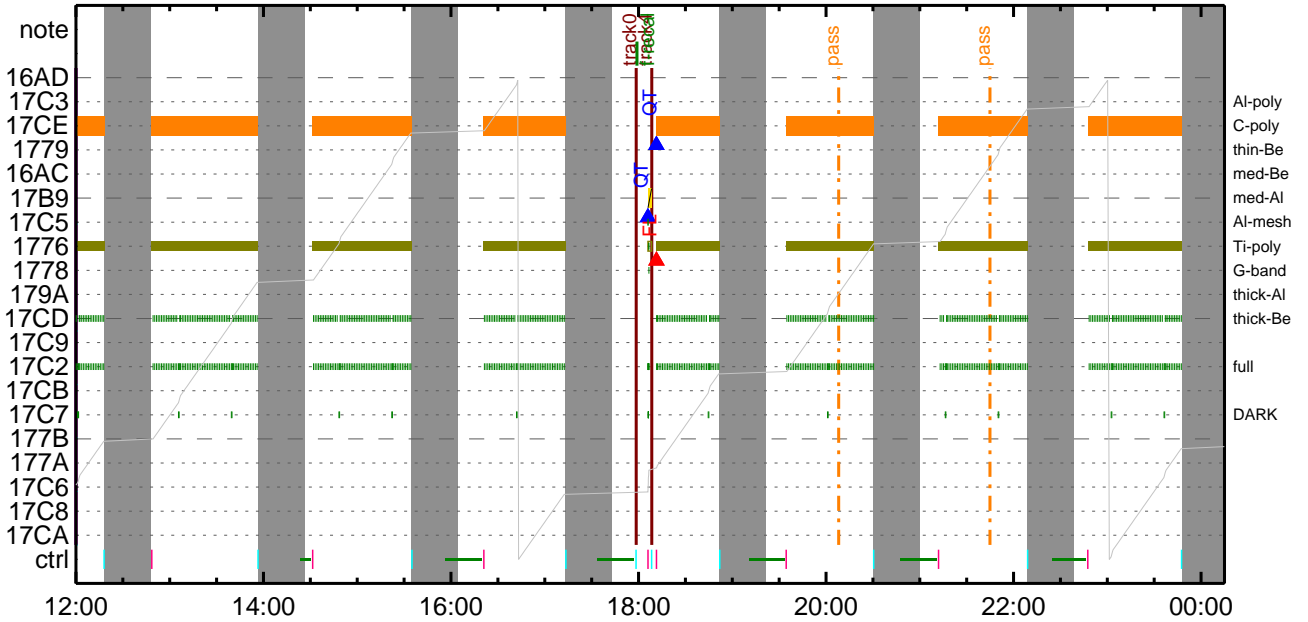
| Term                            | Pointing (x, y)                        | Comment                                      |
|---------------------------------|--|--|
| 06/08 11:25:16 - 06/08 18:03:20 | Track ( -115.7, 1.0) @ 06/08 11:25:00  | # OP start + 10min QS deep exposure with AIA |
| 06/08 18:08:46 - 06/09 05:43:46 | Track ( -54.0, 0.4) @ 06/08 18:08:30   | #Cont QS deep exposure                       |
| 06/09 05:53:46 - 06/09 17:36:16 | Track ( 54.3, -0.5) @ 06/09 05:53:30   | #Cont QS                                     |
| 06/09 21:48:22 - 06/10 07:30:16 | Track ( 150.0, 300.0) @ 06/09 21:46:00 | HOP 146 Solar wind sources, tracking.        |
| 06/10 07:40:16 - 06/12 10:41:00 | Fixed ( 50.0, -900.0)                  | # CH boundary obs for S-pole                 |

|                |                |       |      |       |      |     |     |                    |       |            |          |
|----------------|----------------|-------|------|-------|------|-----|-----|--------------------|-------|------------|----------|
| Open/Ti-poly   | Open/thick-Al  | close | Safe | Norm  | 8ms  | Obs | 8x8 |                    | Q=50  |            | 30sec    |
| Default Filter | Thicker Filter | VLS   | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |

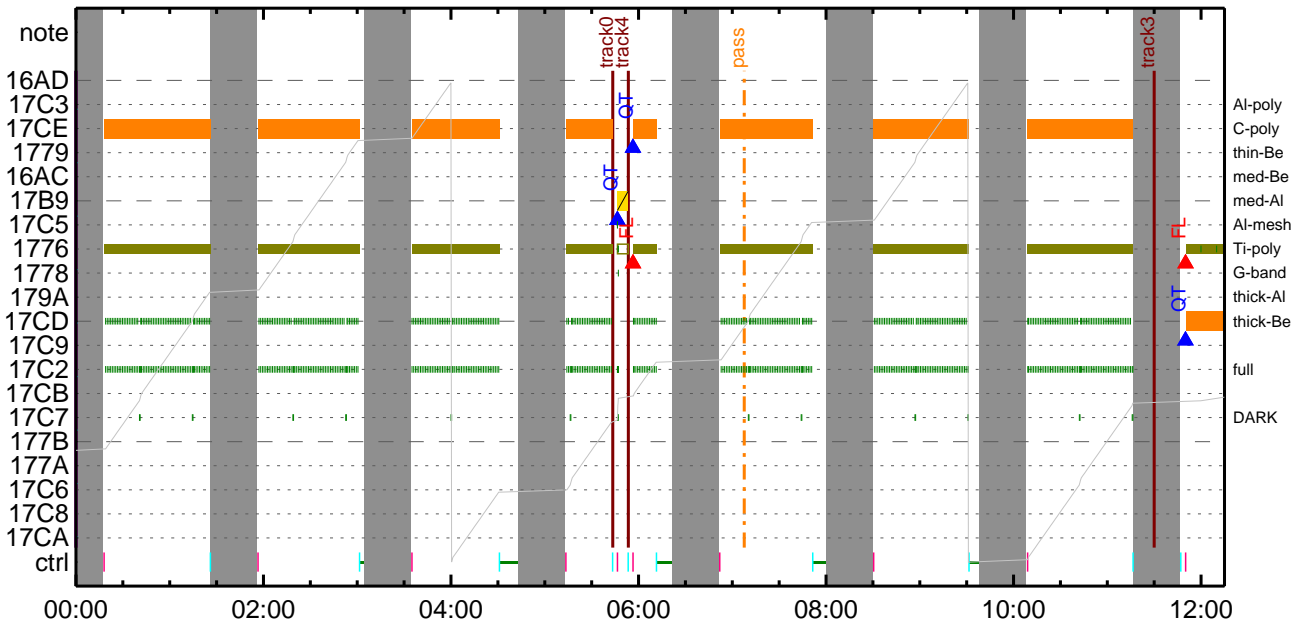
### CMDI #0298 2010/06/08



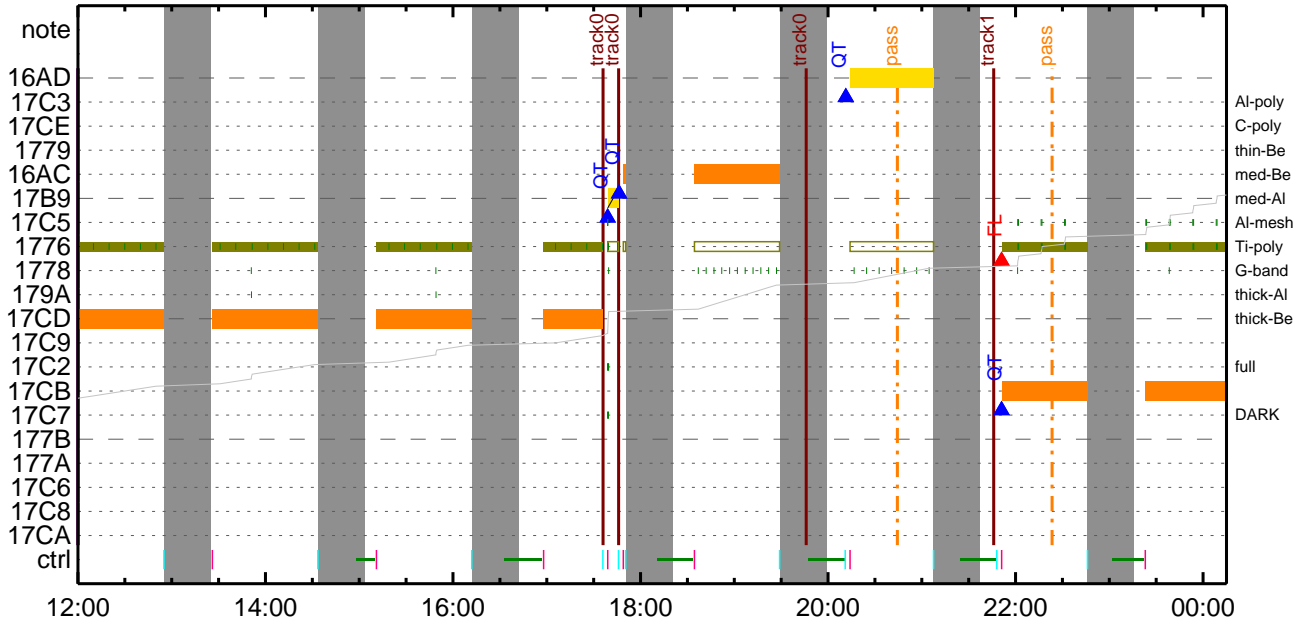
### CMDI #0298 2010/06/08



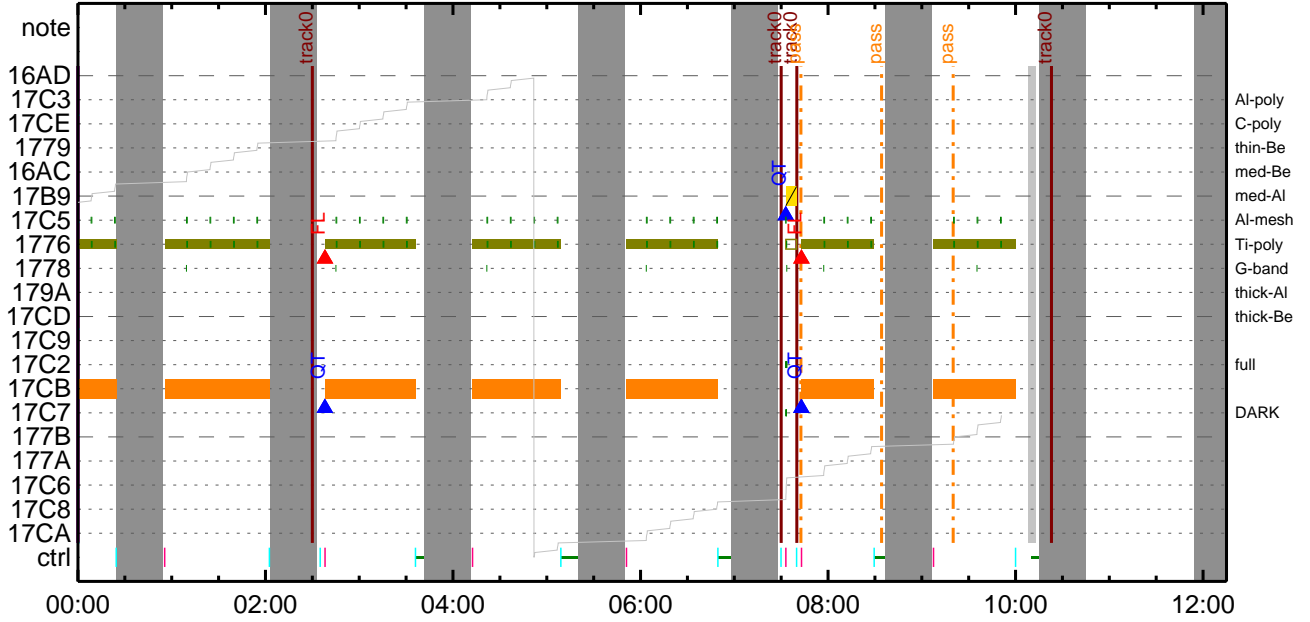
### CMDI #0298 2010/06/09



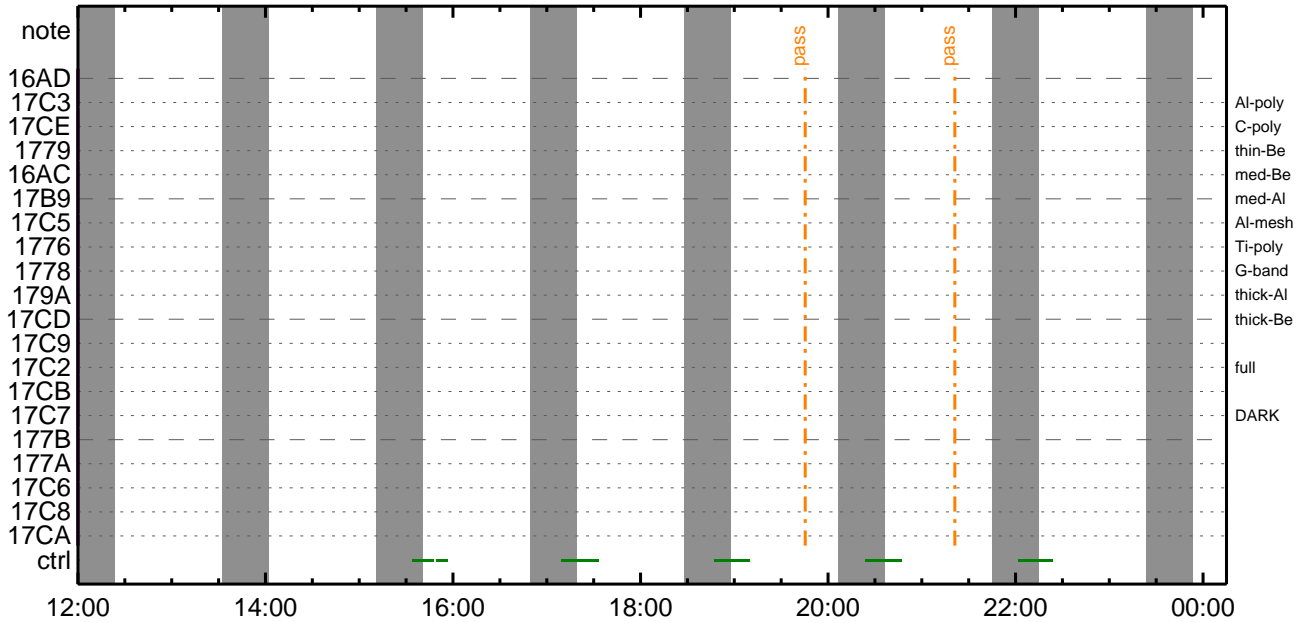
CMDI #0298 2010/06/09



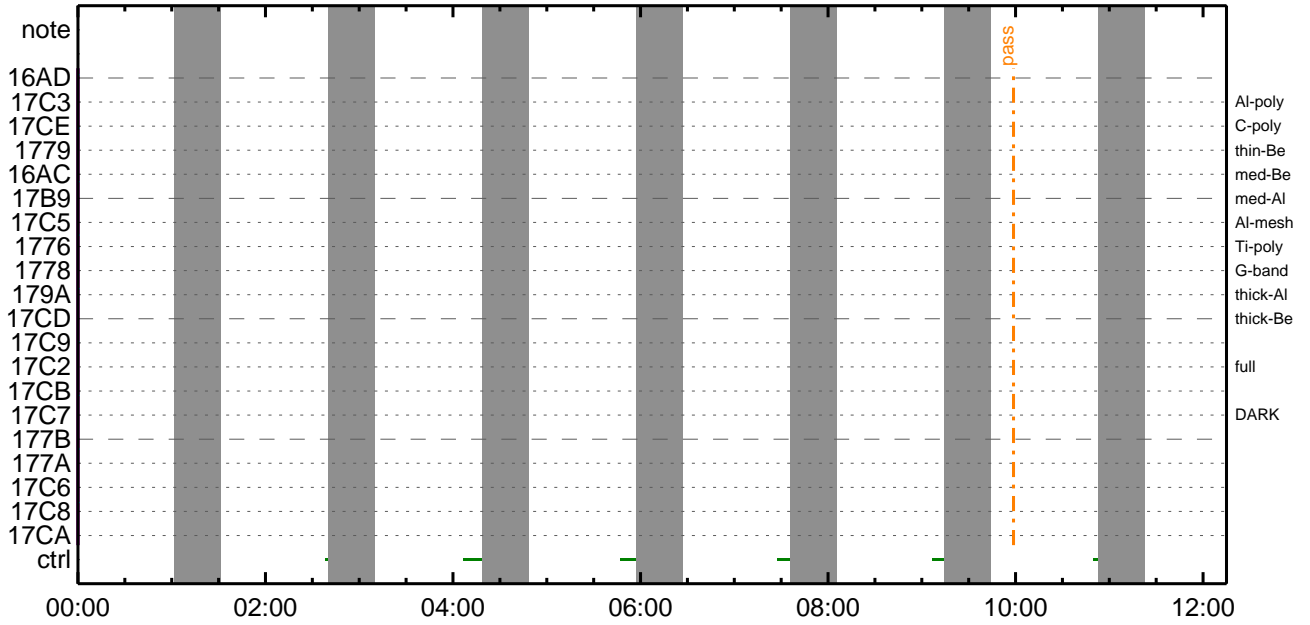
CMDI #0298 2010/06/10



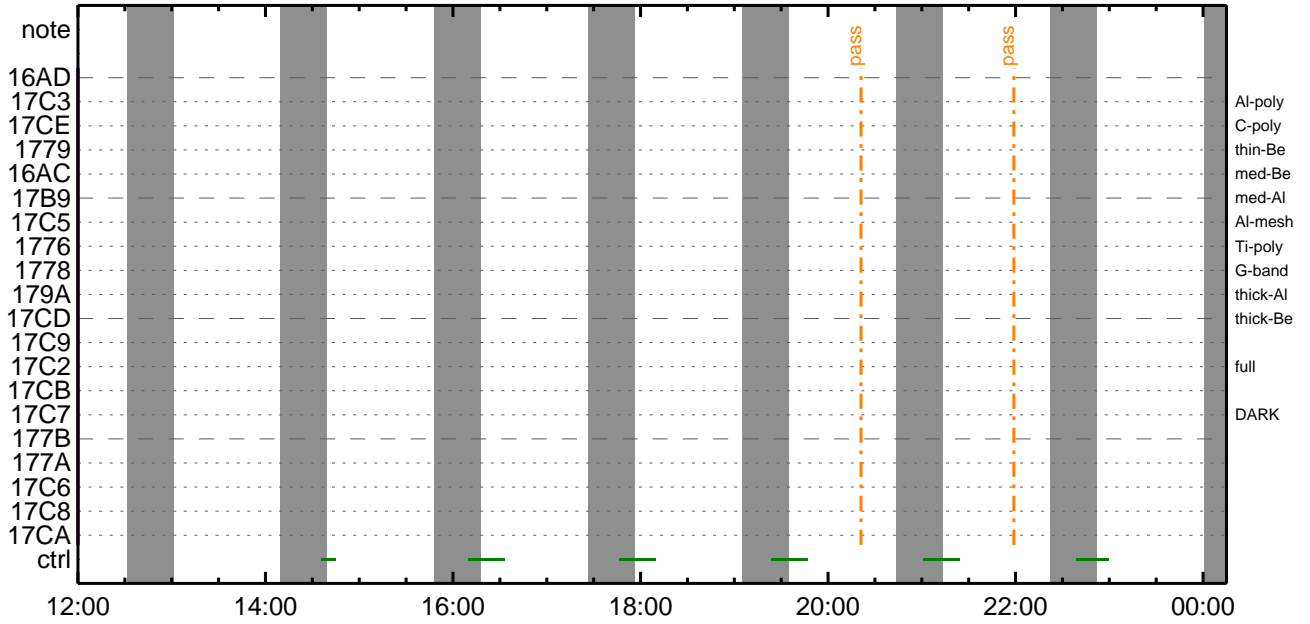
CMDI #0298 2010/06/10



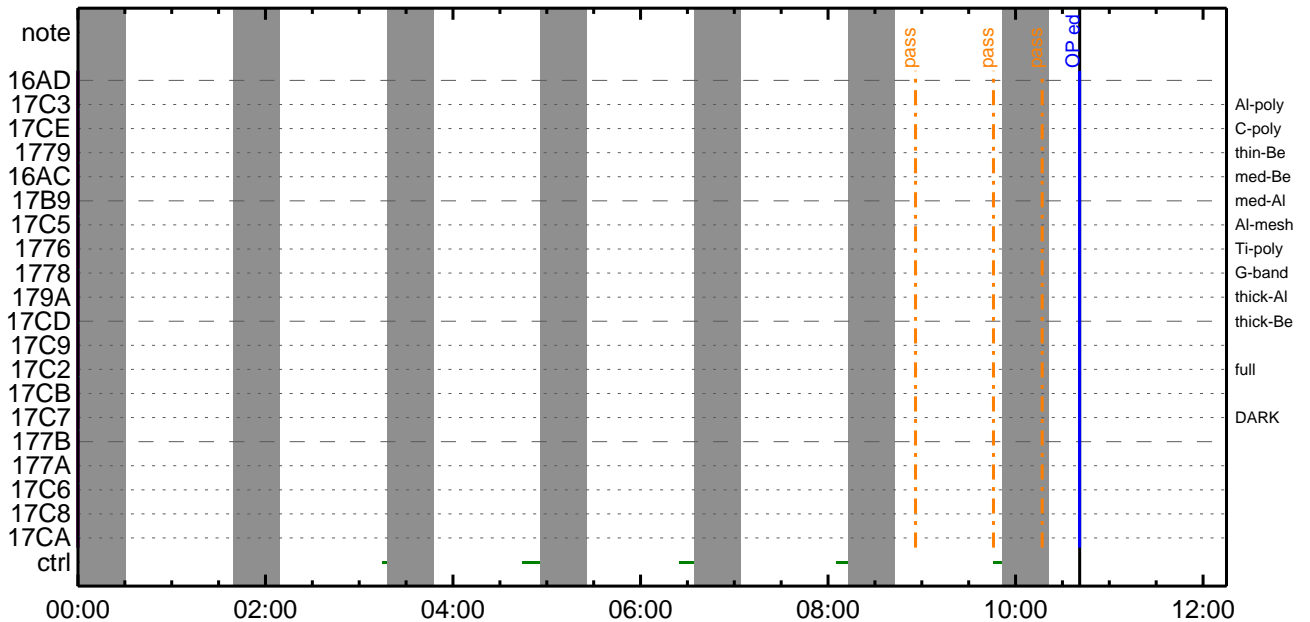
CMDI #0298 2010/06/11



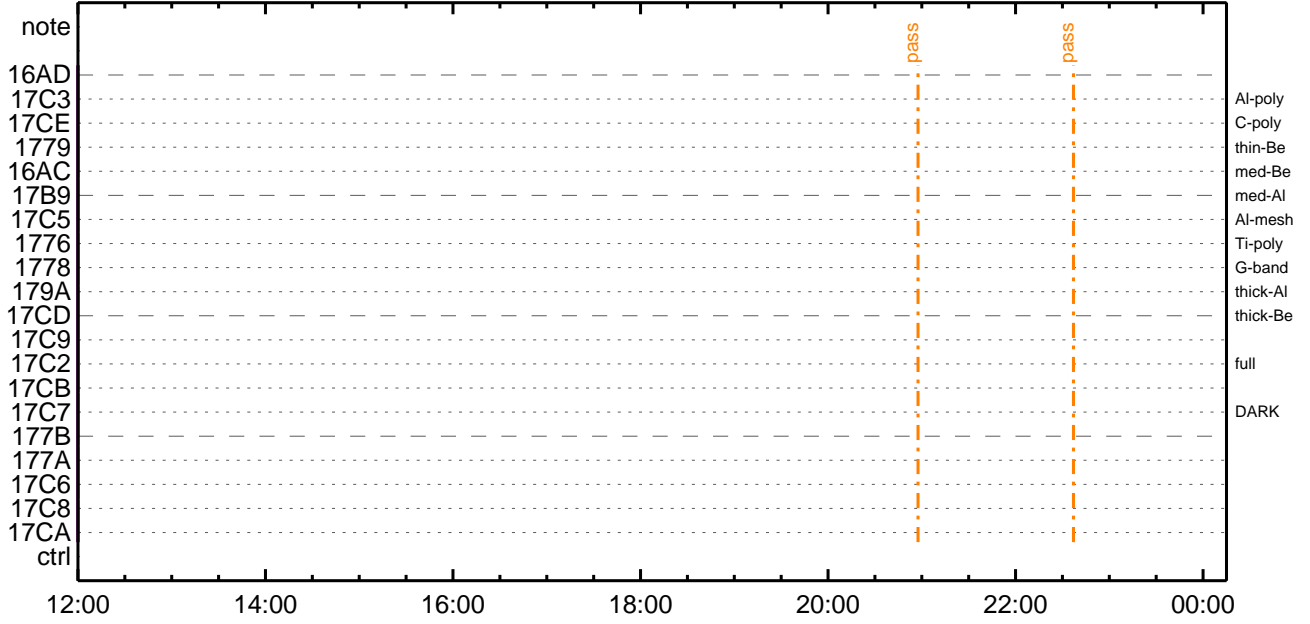
CMDI #0298 2010/06/11



CMDI #0298 2010/06/12



CMDI #0298 2010/06/12





0096 C.  
0097 C.  
0098 C. \*\*\*\*\*  
0099 C. OP/OGY1;4YE;|YAYOX  
0100 C. \*\*\*\*\*  
0101 C.  
0102 C. ;aOP/OGY1;4YE;a  
0103 S. OP op-398:OP  
0104 (  
0105 S. OG og-398:OG  
0106 (  
0107 C.  
0108 C. ;aNMOG&OPf^°eYAYOX;a  
0109 C. NMOG(0x200000-0x207FFF;s 32 kbyte)  
0110 +. DC 01-23 DHU\_DMA\_DMP\_PRM\_SET  
0111 BC (20 00 7f 01 02)  
0112 C. ;[HK1\_DMP\_TOP\_ADRS\_1] EQ 40  
0113 C. ;[HK1\_DMP\_TOP\_ADRS\_0] EQ 0  
0114 C. ;[HK1\_DMP\_BLOCK\_NUM] EQ 127  
0115 C. ;[HK1\_DMP\_REPEAT\_NUM] EQ 0  
0116 C. ;[HK1\_DMA\_DMP\_PIM] EQ DHU  
0117 +. DC 01-22 DHU\_MODE\_CHNG  
0118 BC (07 0b f8)  
0119 C. ;[HK1\_PKT\_FORM\_NO] EQ 7  
0120 C. ;[HK1\_PKT\_GEN\_TIME] EQ 0.25 s  
0121 C. ;[HK1\_S\_TLM\_BIT\_RATE] EQ 32k  
0122 C. ;[HK1\_X\_TLM\_BIT\_RATE] EQ 4M  
0123 C. ;[HK1\_DMP\_CHK\_FLG] EQ EXEC  
0124 C. YAYOXx1/2^I»oð^ICs  
0125 C. ;[HK1\_DMP\_CHK\_FLG] EQ NON  
0126 C. RAM ID=NMOGqf^E^1ç•e^IOKqð^ICs  
0127 C.  
0128 C. NMOG(0x208000-0x20FFFF;s 32 kbyte)  
0129 +. DC 01-23 DHU\_DMA\_DMP\_PRM\_SET  
0130 BC (20 80 7f 01 02)  
0131 C. ;[HK1\_DMP\_TOP\_ADRS\_1] EQ 41  
0132 C. ;[HK1\_DMP\_TOP\_ADRS\_0] EQ 0  
0133 C. ;[HK1\_DMP\_BLOCK\_NUM] EQ 127  
0134 C. ;[HK1\_DMP\_REPEAT\_NUM] EQ 0  
0135 C. ;[HK1\_DMA\_DMP\_PIM] EQ DHU  
0136 +. DC 01-22 DHU\_MODE\_CHNG  
0137 BC (07 0b f8)  
0138 C. ;[HK1\_PKT\_FORM\_NO] EQ 7  
0139 C. ;[HK1\_PKT\_GEN\_TIME] EQ 0.25 s  
0140 C. ;[HK1\_S\_TLM\_BIT\_RATE] EQ 32k  
0141 C. ;[HK1\_X\_TLM\_BIT\_RATE] EQ 4M  
0142 C. ;[HK1\_DMP\_CHK\_FLG] EQ EXEC  
0143 C. YAYOXx1/2^I»oð^ICs  
0144 C. ;[HK1\_DMP\_CHK\_FLG] EQ NON  
0145 C. RAM ID=NMOGqf^E^1ç•e^IOKqð^ICs  
0146 C.  
0147 C. NMOG(0x210000-0x2100FF;s 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)  
0148 +. DC 01-23 DHU\_DMA\_DMP\_PRM\_SET  
0149 BC (21 00 41 01 02)  
0150 C. ;[HK1\_DMP\_TOP\_ADRS\_1] EQ 42  
0151 C. ;[HK1\_DMP\_TOP\_ADRS\_0] EQ 0  
0152 C. ;[HK1\_DMP\_BLOCK\_NUM] EQ 65  
0153 C. ;[HK1\_DMP\_REPEAT\_NUM] EQ 0  
0154 C. ;[HK1\_DMA\_DMP\_PIM] EQ DHU  
0155 +. DC 01-22 DHU\_MODE\_CHNG  
0156 BC (07 0b f8)  
0157 C. ;[HK1\_PKT\_FORM\_NO] EQ 7  
0158 C. ;[HK1\_PKT\_GEN\_TIME] EQ 0.25 s  
0159 C. ;[HK1\_S\_TLM\_BIT\_RATE] EQ 32k  
0160 C. ;[HK1\_X\_TLM\_BIT\_RATE] EQ 4M  
0161 C. ;[HK1\_DMP\_CHK\_FLG] EQ EXEC  
0162 C. YAYOXx1/2^I»oð^ICs  
0163 C. ;[HK1\_DMP\_CHK\_FLG] EQ NON  
0164 C. RAM ID=NMOG, RAM ID=OPqf^E^1ç•e^IOKqð^ICs  
0165 C.  
0166 C. \*\*\*\*\* oE^2/4qI^A^¶IA^oEE^-oA÷:z@ (%amu-YAYOXx1/2e^çqðA^O^æqç^a^"oE%i^1çqçqâ) \*\*\*\*\*  
0167 C. DHUYâ;4YE;E^1/2^Y;1;4YE;EoðIâ^1  
0168 +. DC 01-22 DHU\_MODE\_CHNG  
0169 BC (02 0a f8)  
0170 C. ;[HK1\_PKT\_FORM\_NO] EQ 2  
0171 C. ;[HK1\_PKT\_GEN\_TIME] EQ 0.5S  
0172 C. ;[HK1\_S\_TLM\_BIT\_RATE] EQ 32K  
0173 C. ;[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 ;s OPOG UPLOADq-A÷:z@NGuI^1ç;ç°E^2/4qI^TI-CMDA÷:z@qI^A^1Oq•qEoqð^qE;f  
0180 C. qBqz;çSETqEDUMPqI^E±°iYNY^1qç^1Oq|q^3qE;f  
0181 C.  
0182 C. TIY^3YB^YOX^EoðA^I^ç(UT)  
0183 +. TI 2010-06-08 11:10:00.0  
0184 DC 01-B3 DHU\_OP\_STOP  
0185 C. ;[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP  
0186 C.  
0187 +. TI 2010-06-08 11:10:01.0  
0188 DC 01-B4 DHU\_OP\_COPY  
0189 C. ;[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP  
0190 C.  
0191 +. TI 2010-06-08 11:10:01.0  
0192 DC 01-B5 DHU\_OPOG\_COPY  
0193 C. ;[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP





(a) Spacecraft Operation Procedure (real-commands)

```
main-399 2010-06-08 13:31:26 134 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÁYB;¼Y³YFÝÖYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È□¿□Á□•µ°Æ»Í×ÁÇ□íY¿Y×Yí;¼YÉ;ÈÈ%µ•íÉ;È□È¼°ÇÔ□•□¿¼í¹Ç□í;çÁ®, ù□¹□È□B□ÇÁ+¿®□•□È□□□³□È;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0015 C. Upload the Orbit Element and the Target Attitude
0016 C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 ( )
0019 C.
0020 C.
0021 C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023 BC (07 00 00 00 18 00)
0024 C.
0025 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCs Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCSDUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 . C. ***** AOCs Commands (Orbital Element Update) *****
0046 C. Update the orbital element
0047 +. DC 02-50 AOCU_ORB_PRPGT_START
0048 BC (16)
0049 +. DC 02-8E AOCU_ORB_UPD
0050 C.
0051 C. <A_ORB>[ORBIT] EPC = 7603983.7 +- 1.0 (s) [ ]
0052 C.
0053 . C.
0054 . C. *****
0055 C. SOT table upload
0056 C. *****
0057 . C. < Upload DPL table >
0058 +. DC 07-F0 MDP_FG_CTRL_MANU
0059 BC (51)
0060 C. -----
0061 C. MDP_FG_CTRL_MODE = MANU [ ]
0062 C. -----
0063 C.
0064 C. Y¿YÁY×Yí;¼YÉ□íÁ°□ÈSTS_CHK□□OFF□È□¹□È
0065 C.
0066 . S. RAM ram-271:MDP_DPL
0067 ( )
0068 C.
0069 . C. < Dump RAMID=MDP_DPL >
0070 +. DC 07-F0 MDP_DUMP_FGTBL
0071 BC (82 07 00 38 b8 00 40)
0072 C. -----
0073 C. MDP_DPL verify = OK [ ]
0074 C. -----
0075 C.
0076 C. STS_CHK□□ON□È□¹□È
0077 C.
0078 . C. < Update MDP DSC PAR1 >
0079 +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0080 BC (4c)
0081 C. MDP_CMD_CODE = F04C0700[ ]
0082 C. MDP_CMD_CNT (count-up 1) [ ]
0083 C. -----
0084 C.
0085 . C.
0086 C. *****
0087 C. SOT TI command set
0088 C. *****
0089 C. Execute, after the success of TBL upload.
0090 +. TI 2010-06-08 11:14:18.0
0091 DC 07-F0 MDP_SOT_MODE_OBSV
0092 BC (40)
0093 C. -----
0094 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0095 C. -----
```

```
0096 C.
0097 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0098 +. DC 07-FC EIS_MODE_MANU
0099 BC (21 02)
0100 . C. Verify EIS in MANUAL mode
0101 . C. Estimated OBSTBL upload time is 43s
0102 C. *****
0103 C. EIS START OBSTBL LOAD
0104 C. *****
0105 . S. RAM ram-820:EIS_OBSTBL
0106 ( )
0107 +. DC 07-FC EIS_DUMP_OBSTBL
0108 BC (07 07 07 00 00 70 00)
0109 C.
0110 C. Execute, after the success of OBSTBL upload.
0111 C. Set EIS TI-commands
0112 +. TI 2010-06-08 11:14:50.0
0113 DC 07-FC EIS_MODE_CHG_ENA
0114 BC (20)
0115 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0116 C. *****
0117 C. EIS END OBSTBL LOAD
0118 C. *****
0119 C.
0120 . C. ***** MDP `úÃîñî»ò¼ÝðÊÃð¹ñèDCBC•x²è *****
0121 C. (¼á°îÝÓÝÃÝÈÝÞÝËÝáÝçÝèñÊ¼ñ¼Ã»Û¹ñè)
0122 . S. DC-BC dcbc-402:DCBC
0123 (MDP_known_event)
0124 C.
0125 C.
0126 . C. ***** ¥DÝ¹•Ï Daily±¿ÍññÈ´Ø¹ñèDCBC•x²è *****
0127 . S. DC-BC dcbc-153:DCBC
0128 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0129 C.
0130 C.
0131 . C. ¡ãLOS¥Á¥$¥Ã¥¬¼Ã»Û¡ä
0132 C.
0133 . C. ***** LOS *****
0134 C.
```



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

|            |            |                                      |   |       |                |  |  |
|------------|------------|--------------------------------------|---|-------|----------------|--|--|
| 2010/06/08 | 11:24:54.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 11:24:56.0 | XRT_FOCUS_POSITION_401_OG [0x191]    |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2010/06/08 | 11:25:00.0 | AOCS_Ore-point_Start_1_OG [0x097]    |   |       |                |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 04 00 00 00 00 |  |  |
| 2010/06/08 | 11:25:16.0 | XRT_FLD_ENA_402_OG [0x192]           |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8             |  |  |
| 2010/06/08 | 11:25:18.0 | XRT_FLD_RESET_403_OG [0x193]         |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |
| 2010/06/08 | 11:25:20.0 | XRT_FLRCTRL_ENA_418_OG [0x1a2]       |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8             |  |  |
| 2010/06/08 | 11:25:22.0 | XRT_ARS_DIS_405_OG [0x195]           |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |
| 2010/06/08 | 11:27:56.0 | XRT_QT_PROG_SET_406_OG [0x196]       |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 12          |  |  |
| 2010/06/08 | 11:27:58.0 | XRT_FL_PROG_SET_442_OG [0x1ba]       |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 0d          |  |  |
| 2010/06/08 | 11:28:00.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 12:18:00.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 12:47:30.0 | XRT_Custom_410_OG [0x19a]            |   |       |                |  |  |
| 2010/06/08 | 12:48:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 13:56:30.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 14:30:30.5 | XRT_Custom_410_OG [0x19a]            |   |       |                |  |  |
| 2010/06/08 | 14:31:30.5 | XRT_CTRL_AUTO_411_OG [0x19b]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 15:35:00.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 16:20:00.0 | XRT_Custom_410_OG [0x19a]            |   |       |                |  |  |
| 2010/06/08 | 16:21:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 17:13:30.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 17:58:24.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 17:58:30.0 | AOCS_Ore-point_Start_2_OG [0x098]    |   |       |                |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 00 00 00 00 |  |  |
| 2010/06/08 | 17:59:00.0 | XRT_FOCUS_RECALIBRATE_427_OG [0x1ab] |   |       |                |  |  |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 00          |  |  |
| 2010/06/08 | 18:03:00.0 | XRT_FOCUS_POSITION_412_OG [0x19c]    |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 ff aa 00    |  |  |
| 2010/06/08 | 18:03:20.0 | XRT_FLD_DIS_413_OG [0x19d]           |   |       |                |  |  |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9             |  |  |
| 2010/06/08 | 18:03:22.0 | XRT_FLRCTRL_DIS_414_OG [0x19e]       |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9             |  |  |
| 2010/06/08 | 18:03:24.0 | XRT_ARS_DIS_415_OG [0x19f]           |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |
| 2010/06/08 | 18:06:02.0 | XRT_QT_PROG_SET_438_OG [0x1b6]       |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 0f          |  |  |
| 2010/06/08 | 18:06:04.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 18:08:24.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 18:08:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]    |   |       |                |  |  |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 fe 97 00    |  |  |
| 2010/06/08 | 18:08:30.0 | AOCS_Ore-point_Start_1_OG [0x097]    |   |       |                |  |  |
|            |            | AOCU_NM                              | 5 | 02-76 | 04 00 00 00 00 |  |  |
| 2010/06/08 | 18:08:46.0 | XRT_FLD_ENA_402_OG [0x192]           |   |       |                |  |  |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8             |  |  |
| 2010/06/08 | 18:08:48.0 | XRT_FLD_RESET_403_OG [0x193]         |   |       |                |  |  |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da             |  |  |
| 2010/06/08 | 18:08:50.0 | XRT_FLRCTRL_ENA_418_OG [0x1a2]       |   |       |                |  |  |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8             |  |  |
| 2010/06/08 | 18:08:52.0 | XRT_ARS_DIS_405_OG [0x195]           |   |       |                |  |  |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5             |  |  |
| 2010/06/08 | 18:11:26.0 | XRT_QT_PROG_SET_406_OG [0x196]       |   |       |                |  |  |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 12          |  |  |
| 2010/06/08 | 18:11:28.0 | XRT_FL_PROG_SET_442_OG [0x1ba]       |   |       |                |  |  |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 0d          |  |  |
| 2010/06/08 | 18:11:30.0 | XRT_CTRL_AUTO_408_OG [0x198]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 18:52:00.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 19:33:30.0 | XRT_Custom_410_OG [0x19a]            |   |       |                |  |  |
| 2010/06/08 | 19:34:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 20:30:30.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 21:11:00.0 | XRT_Custom_410_OG [0x19a]            |   |       |                |  |  |
| 2010/06/08 | 21:12:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 22:09:00.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1             |  |  |
| 2010/06/08 | 22:46:30.0 | XRT_Custom_410_OG [0x19a]            |   |       |                |  |  |
| 2010/06/08 | 22:47:30.5 | XRT_CTRL_AUTO_411_OG [0x19b]         |   |       |                |  |  |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0             |  |  |
| 2010/06/08 | 23:47:30.0 | XRT_CTRL_MANU_409_OG [0x199]         |   |       |                |  |  |

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|            |            |                                   |                     |   |       |                |  |  |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|--|--|--|--|
| 2010/06/09 | 00:17:00.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 00:18:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |                |  |  |  |  |
| 2010/06/09 | 01:26:00.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 01:55:30.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 01:56:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |                |  |  |  |  |
| 2010/06/09 | 03:01:30.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 03:34:00.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 03:35:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |                |  |  |  |  |
| 2010/06/09 | 04:31:00.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 05:12:30.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 05:13:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |                |  |  |  |  |
| 2010/06/09 | 05:43:24.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 05:43:26.0 | XRT_FOCUS_POSITION_412_OG [0x19c] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 05:43:30.0 | AOCs_OrE-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2010/06/09 | 05:43:46.0 | XRT_FLD_DIS_413_OG [0x19d]        | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2010/06/09 | 05:43:48.0 | XRT_FLRCTRL_DIS_414_OG [0x19e]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |  |  |  |
| 2010/06/09 | 05:43:50.0 | XRT_ARS_DIS_415_OG [0x19f]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |  |  |  |
| 2010/06/09 | 05:46:28.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2010/06/09 | 05:46:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0f          |  |  |  |  |
| 2010/06/09 | 05:53:24.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 05:53:26.0 | XRT_FOCUS_POSITION_401_OG [0x191] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 05:53:30.0 | AOCs_OrE-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2010/06/09 | 05:53:46.0 | XRT_FLD_ENA_402_OG [0x192]        | AOCU_NM             | 5 | 02-76 | 04 00 00 00 00 |  |  |  |  |
| 2010/06/09 | 05:53:48.0 | XRT_FLD_RESET_403_OG [0x193]      | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |  |
| 2010/06/09 | 05:53:50.0 | XRT_FLRCTRL_ENA_418_OG [0x1a2]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2010/06/09 | 05:53:52.0 | XRT_ARS_DIS_405_OG [0x195]        | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |  |
| 2010/06/09 | 05:56:26.0 | XRT_QT_PROG_SET_406_OG [0x196]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2010/06/09 | 05:56:28.0 | XRT_FL_PROG_SET_442_OG [0x1ba]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 12          |  |  |  |  |
| 2010/06/09 | 05:56:30.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d          |  |  |  |  |
| 2010/06/09 | 06:11:30.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 06:51:00.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 06:52:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |                |  |  |  |  |
| 2010/06/09 | 07:51:30.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 08:29:30.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 08:30:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |                |  |  |  |  |
| 2010/06/09 | 09:31:30.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 10:08:00.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 10:09:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |                |  |  |  |  |
| 2010/06/09 | 11:16:30.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2010/06/09 | 11:30:00.0 | AOCs_OrE-point_Start_3_OG [0x099] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 11:47:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | AOCU_NM             | 5 | 02-76 | 03 00 00 00 00 |  |  |  |  |
| 2010/06/09 | 11:47:02.0 | XRT_FOCUS_POSITION_401_OG [0x191] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2010/06/09 | 11:47:22.0 | XRT_FLD_ENA_402_OG [0x192]        | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2010/06/09 | 11:47:24.0 | XRT_FLD_RESET_403_OG [0x193]      | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |  |
| 2010/06/09 | 11:47:26.0 | XRT_FLRCTRL_ENA_418_OG [0x1a2]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2010/06/09 | 11:47:28.0 | XRT_ARS_DIS_405_OG [0x195]        | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |  |
| 2010/06/09 | 11:50:02.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2010/06/09 | 11:50:04.0 | XRT_FL_PROG_SET_442_OG [0x1ba]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0a          |  |  |  |  |
| 2010/06/09 | 11:50:06.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d          |  |  |  |  |
| 2010/06/09 | 12:55:00.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |

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|            |            |                                   |                     |   |       |             |    |  |  |
|------------|------------|-----------------------------------|---------------------|---|-------|-------------|----|--|--|
| 2010/06/09 | 13:25:00.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 13:26:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |             |    |  |  |
| 2010/06/09 | 14:33:30.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |    |  |  |
| 2010/06/09 | 15:10:00.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 15:11:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |             |    |  |  |
| 2010/06/09 | 16:12:00.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |    |  |  |
| 2010/06/09 | 16:57:00.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 16:58:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |             |    |  |  |
| 2010/06/09 | 17:35:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |    |  |  |
| 2010/06/09 | 17:35:56.0 | XRT_FOCUS_POSITION_412_OG [0x19c] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 17:36:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa    | 00 |  |  |
| 2010/06/09 | 17:36:16.0 | XRT_FLD_DIS_413_OG [0x19d]        | AOCU_NM             | 5 | 02-76 | 00 00 00 00 | 00 |  |  |
| 2010/06/09 | 17:36:18.0 | XRT_FLRCTRL_DIS_414_OG [0x19e]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9          |    |  |  |
| 2010/06/09 | 17:36:20.0 | XRT_ARS_DIS_415_OG [0x19f]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9          |    |  |  |
| 2010/06/09 | 17:38:58.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5          |    |  |  |
| 2010/06/09 | 17:39:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0f       |    |  |  |
| 2010/06/09 | 17:45:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |    |  |  |
| 2010/06/09 | 17:45:56.0 | XRT_FOCUS_POSITION_407_OG [0x197] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 17:46:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97    | 00 |  |  |
| 2010/06/09 | 17:46:16.0 | XRT_QT_PROG_SET_420_OG [0x1a4]    | AOCU_NM             | 5 | 02-76 | 00 ac 00 00 | 00 |  |  |
| 2010/06/09 | 17:46:18.0 | XRT_ARS_DIS_415_OG [0x19f]        | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 10       |    |  |  |
| 2010/06/09 | 17:48:56.0 | XRT_FLD_DIS_426_OG [0x1aa]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5          |    |  |  |
| 2010/06/09 | 17:48:58.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9          |    |  |  |
| 2010/06/09 | 17:49:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9          |    |  |  |
| 2010/06/09 | 17:50:30.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |    |  |  |
| 2010/06/09 | 18:33:30.0 | XRT_Custom_410_OG [0x19a]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 18:34:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |                     |   |       |             |    |  |  |
| 2010/06/09 | 19:29:00.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |    |  |  |
| 2010/06/09 | 19:46:00.0 | AOCS_Ore-point_Start_5_OG [0x09b] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 20:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | AOCU_NM             | 5 | 02-76 | 00 00 00 54 | 00 |  |  |
| 2010/06/09 | 20:11:02.0 | XRT_FOCUS_POSITION_407_OG [0x197] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 20:11:22.0 | XRT_QT_PROG_SET_424_OG [0x1a8]    | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97    | 00 |  |  |
| 2010/06/09 | 20:11:24.0 | XRT_ARS_DIS_415_OG [0x19f]        | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 14       |    |  |  |
| 2010/06/09 | 20:14:02.0 | XRT_FLD_DIS_426_OG [0x1aa]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5          |    |  |  |
| 2010/06/09 | 20:14:04.0 | XRT_FLRCTRL_DIS_416_OG [0x1a0]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9          |    |  |  |
| 2010/06/09 | 20:14:06.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9          |    |  |  |
| 2010/06/09 | 21:07:30.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |    |  |  |
| 2010/06/09 | 21:46:00.0 | AOCS_Ore-point_Start_6_OG [0x09c] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 21:48:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | AOCU_NM             | 5 | 02-76 | 01 00 00 00 | 00 |  |  |
| 2010/06/09 | 21:48:02.0 | XRT_FOCUS_POSITION_401_OG [0x191] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |
| 2010/06/09 | 21:48:22.0 | XRT_FLD_ENA_402_OG [0x192]        | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97    | 00 |  |  |
| 2010/06/09 | 21:48:24.0 | XRT_FLD_RESET_403_OG [0x193]      | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8          |    |  |  |
| 2010/06/09 | 21:48:26.0 | XRT_FLRCTRL_ENA_418_OG [0x1a2]    | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da          |    |  |  |
| 2010/06/09 | 21:48:28.0 | XRT_ARS_DIS_405_OG [0x195]        | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8          |    |  |  |
| 2010/06/09 | 21:51:02.0 | XRT_QT_PROG_SET_446_OG [0x1be]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5          |    |  |  |
| 2010/06/09 | 21:51:04.0 | XRT_FL_PROG_SET_442_OG [0x1ba]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 07       |    |  |  |
| 2010/06/09 | 21:51:06.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0d       |    |  |  |
| 2010/06/09 | 22:46:00.0 | XRT_CTRL_MANU_409_OG [0x199]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0          |    |  |  |
|            |            |                                   | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1          |    |  |  |

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|            |            |                                   |   |       |                |  |
|------------|------------|-----------------------------------|---|-------|----------------|--|
| 2010/06/09 | 23:22:00.0 | XRT_Custom_410_OG [0x19a]         |   |       |                |  |
| 2010/06/09 | 23:23:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |
| 2010/06/10 | 00:24:30.0 | XRT_CTRL_MANU_409_OG [0x199]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 00:54:30.0 | XRT_Custom_410_OG [0x19a]         |   |       |                |  |
| 2010/06/10 | 00:55:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |
| 2010/06/10 | 02:02:30.0 | XRT_CTRL_MANU_409_OG [0x199]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 02:30:00.0 | AOCS_ORe-point_Start_7_OG [0x09d] |   |       |                |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 4d 58 00 00 |  |
| 2010/06/10 | 02:35:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 02:35:02.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |
| 2010/06/10 | 02:35:22.0 | XRT_FLD_ENA_402_OG [0x192]        |   |       |                |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |
| 2010/06/10 | 02:35:24.0 | XRT_FLD_RESET_403_OG [0x193]      |   |       |                |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |
| 2010/06/10 | 02:35:26.0 | XRT_FLRCTRL_ENA_418_OG [0x1a2]    |   |       |                |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |
| 2010/06/10 | 02:35:28.0 | XRT_ARS_DIS_405_OG [0x195]        |   |       |                |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |
| 2010/06/10 | 02:38:02.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 07          |  |
| 2010/06/10 | 02:38:04.0 | XRT_FL_PROG_SET_442_OG [0x1ba]    |   |       |                |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0d          |  |
| 2010/06/10 | 02:38:06.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |
| 2010/06/10 | 03:36:00.0 | XRT_CTRL_MANU_409_OG [0x199]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 04:11:30.0 | XRT_Custom_410_OG [0x19a]         |   |       |                |  |
| 2010/06/10 | 04:12:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |
| 2010/06/10 | 05:09:00.0 | XRT_CTRL_MANU_409_OG [0x199]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 05:50:00.0 | XRT_Custom_410_OG [0x19a]         |   |       |                |  |
| 2010/06/10 | 05:51:00.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |
| 2010/06/10 | 06:49:30.0 | XRT_CTRL_MANU_409_OG [0x199]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 07:29:54.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 07:29:56.0 | XRT_FOCUS_POSITION_412_OG [0x19c] |   |       |                |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |  |
| 2010/06/10 | 07:30:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |
| 2010/06/10 | 07:30:16.0 | XRT_FLD_DIS_413_OG [0x19d]        |   |       |                |  |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |  |
| 2010/06/10 | 07:30:18.0 | XRT_FLRCTRL_DIS_414_OG [0x19e]    |   |       |                |  |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |  |
| 2010/06/10 | 07:30:20.0 | XRT_ARS_DIS_415_OG [0x19f]        |   |       |                |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |
| 2010/06/10 | 07:32:58.0 | XRT_QT_PROG_SET_438_OG [0x1b6]    |   |       |                |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0f          |  |
| 2010/06/10 | 07:33:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |
| 2010/06/10 | 07:39:54.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 07:39:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |  |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |  |
| 2010/06/10 | 07:40:00.0 | AOCS_ORe-point_Start_8_OG [0x09e] |   |       |                |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 50 00 fb 8e |  |
| 2010/06/10 | 07:40:16.0 | XRT_FLD_ENA_402_OG [0x192]        |   |       |                |  |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |  |
| 2010/06/10 | 07:40:18.0 | XRT_FLD_RESET_403_OG [0x193]      |   |       |                |  |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |  |
| 2010/06/10 | 07:40:20.0 | XRT_FLRCTRL_ENA_418_OG [0x1a2]    |   |       |                |  |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |  |
| 2010/06/10 | 07:40:22.0 | XRT_ARS_DIS_405_OG [0x195]        |   |       |                |  |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |  |
| 2010/06/10 | 07:42:56.0 | XRT_QT_PROG_SET_446_OG [0x1be]    |   |       |                |  |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 07          |  |
| 2010/06/10 | 07:42:58.0 | XRT_FL_PROG_SET_442_OG [0x1ba]    |   |       |                |  |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0d          |  |
| 2010/06/10 | 07:43:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |
| 2010/06/10 | 08:29:30.0 | XRT_CTRL_MANU_409_OG [0x199]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 09:06:30.0 | XRT_Custom_410_OG [0x19a]         |   |       |                |  |
| 2010/06/10 | 09:07:30.0 | XRT_CTRL_AUTO_411_OG [0x19b]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |  |
| 2010/06/10 | 10:00:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |  |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |  |
| 2010/06/10 | 10:23:00.0 | AOCS_ORe-point_Start_2_OG [0x098] |   |       |                |  |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |  |