

# XRT Timeline to be uploaded on 2010/07/10

Period: 2010/07/10 08:59:00 - 2010/07/14 10:22:00

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Normal mode

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| XOB #17CB: HOP146 2-filter - Ti/poly 8s, Al/mesh 4s, G-band - 512FOV 15min cadence - Q90-AEC2 |  |  |       |      |       |       |     |     |                      |       |            |          |        |
|---|--|--|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Term  | Pointing (x, y)                                  | Comment                                      |       |      |       |       |     |     |                      |       |            |          |        |
| 07/10 09:42:30 - 07/10 15:46:00   | Track ( 10.8, 148.0) <sup>Ⓢ 07/10 09:09:00</sup> | # OP start + 10min: HOP146 disk coronal hole |       |      |       |       |     |     |                      |       |            |          |        |
| <b>PROG= 19 Inf.-time(s)</b>  |  |  |       |      |       |       |     |     |                      |       |            |          |        |
| ┌ Subr= 1 1-time(s) 2.0sec  |  |  |       |      |       |       |     |     |                      |       |            |          |        |
| └ Seqn= 3 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= 15 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 |        |

| XOB #1792: AR - Ti/Poly(256ms)AEC3, Al-mesh(AEC3),Thick-Al(AEC3), G-band-384x384- 2min cad - 1064 1048 |  |                           |       |      |       |       |     |     |                      |       |            |          |        |
|--|--|---------------------------|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y)                                    | Comment                   |       |      |       |       |     |     |                      |       |            |          |        |
| 07/10 16:33:00 - 07/10 17:24:30  | Track ( -765.8, 235.6) <sup>Ⓢ 07/10 16:00:00</sup> | AR appearing from E-limb. |       |      |       |       |     |     |                      |       |            |          |        |
| 07/10 18:21:30 - 07/11 05:55:24  | Track ( -754.9, 234.4) <sup>Ⓢ 07/10 18:18:30</sup> | cont.                     |       |      |       |       |     |     |                      |       |            |          |        |
| 07/11 06:08:30 - 07/11 16:09:54  | Track ( -694.0, 228.5) <sup>Ⓢ 07/11 06:05:30</sup> | cont.                     |       |      |       |       |     |     |                      |       |            |          |        |
| <b>PROG= 20 Inf.-time(s)</b>   |  |                           |       |      |       |       |     |     |                      |       |            |          |        |
| ┌ Subr= 1 1-time(s) 2.0sec   |  |                           |       |      |       |       |     |     |                      |       |            |          |        |
| └ Seqn= 76 1-time(s) 2.0sec  |  |                           |       |      |       |       |     |     |                      |       |            |          |        |
|  | Open/G-band  | Open/G-band               | open  | Safe | Norm  | 63ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| └ Seqn= 77 1-time(s) 2.0sec  |  |                           |       |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Al-mesh                                       | Open/Ti-poly              | close | Safe | Norm  | 125ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|  | Open/thick-Al                                      | Open/thick-Al             | close | Safe | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| ┌ Subr= 2 20-time(s) 2.0sec  |  |                           |       |      |       |       |     |     |                      |       |            |          |        |
| └ Seqn= 78 1-time(s) 120.0sec  |  |                           |       |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Al-mesh                                       | Open/Ti-poly              | close | Safe | Norm  | 250ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
|  | Open/Ti-poly                                       | Open/thick-Al             | close | Safe | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 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                    |       |      |       |       |     |     |                        |       |            |          |        |
| 07/10 18:11:30 - 07/10 18:18:24   | Fixed ( 0.0, 0.0) | synoptic, shifted 8.5 min  |       |      |       |       |     |     |                        |       |            |          |        |
| 07/11 05:58:30 - 07/11 06:05:24   | Fixed ( 0.0, 0.0) | synoptic, shifted -4.5 min |       |      |       |       |     |     |                        |       |            |          |        |
| 07/11 16:13:00 - 07/11 16:23:00   | Fixed ( 0.0, 0.0) | synoptic, manually shifted |       |      |       |       |     |     |                        |       |            |          |        |
| 07/12 06:08:30 - 07/12 07:01:30   | Fixed ( 0.0, 0.0) | synoptic, shifted 5.5 min  |       |      |       |       |     |     |                        |       |            |          |        |
| <b>PROG= 03 1-time(s)</b>   |                   |                            |       |      |       |       |     |     |                        |       |            |          |        |
| ┌ Subr= 1 1-time(s) 12.0sec   |                   |                            |       |      |       |       |     |     |                        |       |            |          |        |
| └ Seqn= 7 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= 8 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 #17EC: Eclipse-AR-Remnant-Al/Mesh-Ti/Poly-Thick-Be-512x512 |   |   |       |      |       |       |     |     |                      |       |            |          |        |
|--|---|---|-------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| Term   | Pointing (x, y)                                     | Comment                                       |       |      |       |       |     |     |                      |       |            |          |        |
| 07/11 17:08:32 - 07/11 18:01:30                                | Track ( -299.0, -671.9) <sup>Ⓢ 07/11 16:30:00</sup> | Eclipse 1: a small AR multi-thermal structure |       |      |       |       |     |     |                      |       |            |          |        |
| <b>PROG= 13 Inf.-time(s)</b>                                   |   |   |       |      |       |       |     |     |                      |       |            |          |        |
| ┌ Subr= 1 1-time(s) 2.0sec                                     |   |   |       |      |       |       |     |     |                      |       |            |          |        |
| └ Seqn= 75 1-time(s) 2.0sec                                    |   |   |       |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Ti-poly  | Open/thick-Al                                 | close | Safe | Dark  | 16.0s | Obs | 1x1 | 512x512 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|  | Open/G-band   | Open/G-band                                   | open  | Safe | Norm  | 63ms  | Obs | 1x1 | 512x512 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| ┌ Subr= 2 30-time(s) 2.0sec                                    |   |   |       |      |       |       |     |     |                      |       |            |          |        |
| └ Seqn= 73 1-time(s) 2.0sec                                    |   |   |       |      |       |       |     |     |                      |       |            |          |        |
|  | Open/thick-Al                                       | Open/thick-Al                                 | close | Safe | Norm  | 16.0s | Obs | 1x1 | 512x512 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|  | Open/thick-Be                                       | Open/thick-Be                                 | close | Safe | Norm  | 16.0s | Obs | 1x1 | 512x512 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| └ Seqn= 74 2-time(s) 2.0sec                                    |   |   |       |      |       |       |     |     |                      |       |            |          |        |
|  | Open/Al-mesh  | Open/Ti-poly                                  | close | Safe | Norm  | 1.41s | Obs | 1x1 | 512x512 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
|  | Open/Ti-poly  | Open/thick-Al                                 | close | Safe | Norm  | 2.83s | Obs | 1x1 | 512x512 (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 |        |

| <b>XOB #17E5: Eclipse-Polar Plume - Al/Mesh, Ti/Poly-512x512 -2min cad</b> |  |                      |  |         |  |            |   |              |  |  |  |  |
|--|--|----------------------|--|---------|--|------------|---|--------------|--|--|--|--|
| Term   |  | Pointing (x, y)      |  |         |  |            | Comment                                 |              |  |  |  |  |
| 07/11 18:29:00 - 07/11 18:46:54  |  | Fixed ( 0.0, -960.0) |  |         |  |            | Eclipse 2: Southern CH for polar plumes |              |  |  |  |  |
| <b>PROG= 05 Inf.-time(s)</b>   |  |                      |  |         |  |            |   |              |  |  |  |  |
| Subr= 2  |  | 1-time(s)            |  | 2.0sec  |  |            |   |              |  |  |  |  |
| └─ Seqn= 1   |  | 1-time(s)            |  | 2.0sec  |  |            |   |              |  |  |  |  |
| └─ Open/G-band   |  | Open/G-band          |  | open    |  | Safe Norm  |   | 63ms         |  | Obs 1x1 512x512 (1024, 1024) Q=98 0 0 2.0sec |  |  |
| Subr= 1  |  | 10-time(s)           |  | 60.0sec |  |            |   |              |  |  |  |  |
| └─ Seqn= 65  |  | 1-time(s)            |  | 2.0sec  |  |            |   |              |  |  |  |  |
| └─ Open/Al-mesh  |  | Open/Al-mesh         |  | close   |  | Safe Norm  |   | 16.0s        |  | Obs 1x1 512x512 (1024, 1024) Q=98 0 0 2.0sec |  |  |
| └─ Open/Ti-poly  |  | Open/Ti-poly         |  | close   |  | Safe Norm  |   | 32.0s        |  | Obs 1x1 512x512 (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 |  |  |

| <b>XOB #17E9: Coronal cavity Al/mesh, Ti/poly, G-band-DPCM 2x2-768X768-FOV -AEC2-1min cadence-NW offset</b> |  |                       |  |         |  |            |                                  |              |  |  |  |  |
|---|--|-----------------------|--|---------|--|------------|----------------------------------|--------------|--|--|--|--|
| Term  |  | Pointing (x, y)       |  |         |  |            | Comment                          |              |  |  |  |  |
| 07/11 18:50:00 - 07/11 19:40:00   |  | Fixed ( 596.0, 674.0) |  |         |  |            | Eclipse 3: HOP114 coronal cavity |              |  |  |  |  |
| <b>PROG= 17 Inf.-time(s)</b>  |  |                       |  |         |  |            |                                  |              |  |  |  |  |
| Subr= 2   |  | 1-time(s)             |  | 2.0sec  |  |            |                                  |              |  |  |  |  |
| └─ Seqn= 81   |  | 1-time(s)             |  | 2.0sec  |  |            |                                  |              |  |  |  |  |
| └─ Open/G-band  |  | Open/G-band           |  | open    |  | Safe Norm  |                                  | 63ms         |  | Obs 1x1 768x768 (1056, 1040) Q=98 0 0 2.0sec |  |  |
| Subr= 1   |  | 40-time(s)            |  | 60.0sec |  |            |                                  |              |  |  |  |  |
| └─ Seqn= 82   |  | 1-time(s)             |  | 2.0sec  |  |            |                                  |              |  |  |  |  |
| └─ Open/Al-mesh   |  | Open/Ti-poly          |  | close   |  | Safe Norm  |                                  | 1.00s        |  | Obs 2x2 768x768 (1056, 1040) DPCM 2 0 2.0sec |  |  |
| └─ Seqn= 84   |  | 1-time(s)             |  | 2.0sec  |  |            |                                  |              |  |  |  |  |
| └─ Open/Ti-poly   |  | Open/thick-Al         |  | close   |  | Safe Norm  |                                  | 4.00s        |  | Obs 2x2 768x768 (1056, 1040) DPCM 2 0 2.0sec |  |  |
| Default Filter  |  | Thicker Filter        |  | VLS     |  | mode image |                                  | Exp. CCD Bin |  | ROI: size (center) Comp. AEC Buffer Interval |  |  |

| <b>XOB #17E6: Eclipse-AR loops oscillations - Ti/Poly,Thick/Al, G-band-FOV 384x384 (10sec-cad)</b> |  |                        |  |         |  |            |                                   |              |  |  |  |  |
|--|--|------------------------|--|---------|--|------------|-----------------------------------|--------------|--|--|--|--|
| Term   |  | Pointing (x, y)        |  |         |  |            | Comment                           |              |  |  |  |  |
| 07/11 20:10:30 - 07/11 21:18:30  |  | Fixed ( -860.0, 330.0) |  |         |  |            | Eclipse 4: AR loops on the e-limb |              |  |  |  |  |
| <b>PROG= 16 Inf.-time(s)</b>   |  |                        |  |         |  |            |                                   |              |  |  |  |  |
| Subr= 2  |  | 1-time(s)              |  | 2.0sec  |  |            |                                   |              |  |  |  |  |
| └─ Seqn= 79  |  | 1-time(s)              |  | 2.0sec  |  |            |                                   |              |  |  |  |  |
| └─ Open/G-band   |  | Open/G-band            |  | open    |  | Safe Norm  |                                   | 63ms         |  | Obs 1x1 384x384 (1128, 1056) DPCM 0 0 2.0sec |  |  |
| └─ Seqn= 83  |  | 1-time(s)              |  | 2.0sec  |  |            |                                   |              |  |  |  |  |
| └─ Open/thick-Al   |  | Open/thick-Be          |  | close   |  | Safe Norm  |                                   | 2.00s        |  | Obs 1x1 384x384 (1128, 1056) DPCM 3 0 2.0sec |  |  |
| Subr= 1  |  | 90-time(s)             |  | 10.0sec |  |            |                                   |              |  |  |  |  |
| └─ Seqn= 80  |  | 1-time(s)              |  | 2.0sec  |  |            |                                   |              |  |  |  |  |
| └─ Open/Ti-poly  |  | Open/thick-Be          |  | close   |  | Safe Norm  |                                   | 250ms        |  | Obs 1x1 384x384 (1128, 1056) Q=98 3 0 2.0sec |  |  |
| Default Filter   |  | Thicker Filter         |  | VLS     |  | mode image |                                   | Exp. CCD Bin |  | ROI: size (center) Comp. AEC Buffer Interval |  |  |

| <b>XOB #17E1: AR Dynamics- Ti/Poly(384FOV) AEC2_3 Q95, G-band(512FOV) - 3min cadence-wide-FOV</b> |  |                       |  |          |  |            |                               |              |  |  |  |  |
|---|--|-----------------------|--|----------|--|------------|-------------------------------|--------------|--|--|--|--|
| Term  |  | Pointing (x, y)       |  |          |  |            | Comment                       |              |  |  |  |  |
| 07/11 22:03:00 - 07/12 02:13:30   |  | Fixed ( 854.0, 317.0) |  |          |  |            | HOP165: AR remnant on NW-limb |              |  |  |  |  |
| <b>PROG= 06 Inf.-time(s)</b>  |  |                       |  |          |  |            |                               |              |  |  |  |  |
| Subr= 1   |  | 1-time(s)             |  | 30.0sec  |  |            |                               |              |  |  |  |  |
| └─ Seqn= 27   |  | 1-time(s)             |  | 30.0sec  |  |            |                               |              |  |  |  |  |
| └─ Open/G-band  |  | Open/G-band           |  | open     |  | Safe Norm  |                               | 63ms         |  | Obs 1x1 512x512 (1064, 1048) Q=98 0 0 2.0sec |  |  |
| Subr= 2   |  | 15-time(s)            |  | 180.0sec |  |            |                               |              |  |  |  |  |
| └─ Seqn= 58   |  | 1-time(s)             |  | 2.0sec   |  |            |                               |              |  |  |  |  |
| └─ Open/Ti-poly   |  | Open/thick-Al         |  | close    |  | Safe Norm  |                               | 250ms        |  | Obs 1x1 512x384 (1024, 1024) Q=95 3 0 2.0sec |  |  |
| └─ Seqn= 59   |  | 1-time(s)             |  | 2.0sec   |  |            |                               |              |  |  |  |  |
| └─ Open/Ti-poly   |  | Open/thick-Al         |  | close    |  | Safe Norm  |                               | 250ms        |  | Obs 1x1 512x384 (1024, 1024) Q=95 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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| <b>XOB #1776: Flare Response short exp at first- Dynamics - Thick-Al - Thick-Be - AEC 1 - 384x384 - Q95</b> |  |  |  |         |  |           |  |       |  |  |  |  |
|---|--|--|--|---------|--|-----------|--|-------|--|--|--|--|
| Term  |  | Pointing (x, y)                                    |  |         |  |           | Comment                                      |       |  |  |  |  |
| 07/10 09:42:30 - 07/10 15:46:00   |  | Track ( 10.8, 148.0) <sup>Ⓜ 07/10 09:09:00</sup>   |  |         |  |           | # OP start + 10min: HOP146 disk coronal hole |       |  |  |  |  |
| 07/10 16:33:00 - 07/10 17:24:30   |  | Track ( -765.8, 235.6) <sup>Ⓜ 07/10 16:00:00</sup> |  |         |  |           | AR appearing from E-limb.                    |       |  |  |  |  |
| 07/10 18:21:30 - 07/11 05:55:24   |  | Track ( -754.9, 234.4) <sup>Ⓜ 07/10 18:18:30</sup> |  |         |  |           | cont.  |       |  |  |  |  |
| 07/11 06:08:30 - 07/11 16:09:54   |  | Track ( -694.0, 228.5) <sup>Ⓜ 07/11 06:05:30</sup> |  |         |  |           | cont.  |       |  |  |  |  |
| 07/11 22:03:00 - 07/12 02:13:30   |  | Fixed ( 854.0, 317.0)                              |  |         |  |           | HOP165: AR remnant on NW-limb                |       |  |  |  |  |
| <b>PROG= 01 1-time(s)</b>   |  |  |  |         |  |           |  |       |  |  |  |  |
| 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 |
| <b>Seqn= 2</b> |                | <b>1-time(s)</b>  |      | <b>4.0sec</b>   |       |     |     |                      |       |            |          |        |
| Open/G-band    | Open/G-band    | open              | Safe | Norm            | 63ms  | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |
| <b>Subr= 3</b> |                | <b>25-time(s)</b> |      | <b>2.0sec</b>   |       |     |     |                      |       |            |          |        |
| <b>Seqn= 9</b> |                | <b>1-time(s)</b>  |      | <b>600.0sec</b> |       |     |     |                      |       |            |          |        |
| 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 |
| <b>Seqn= 2</b> |                | <b>1-time(s)</b>  |      | <b>4.0sec</b>   |       |     |     |                      |       |            |          |        |
| 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 |        |

\* \* \* \* \*

### Active Region Search

\* \* \* \* \*

NOT USED

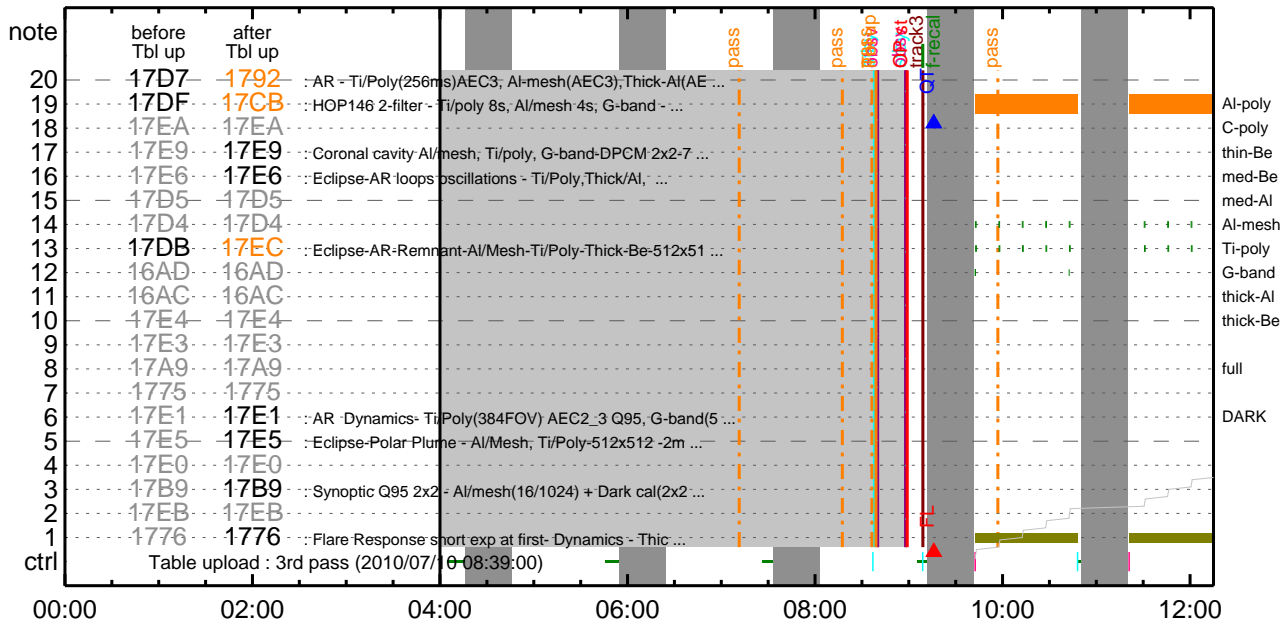
\* \* \* \* \*

### Flare Detection

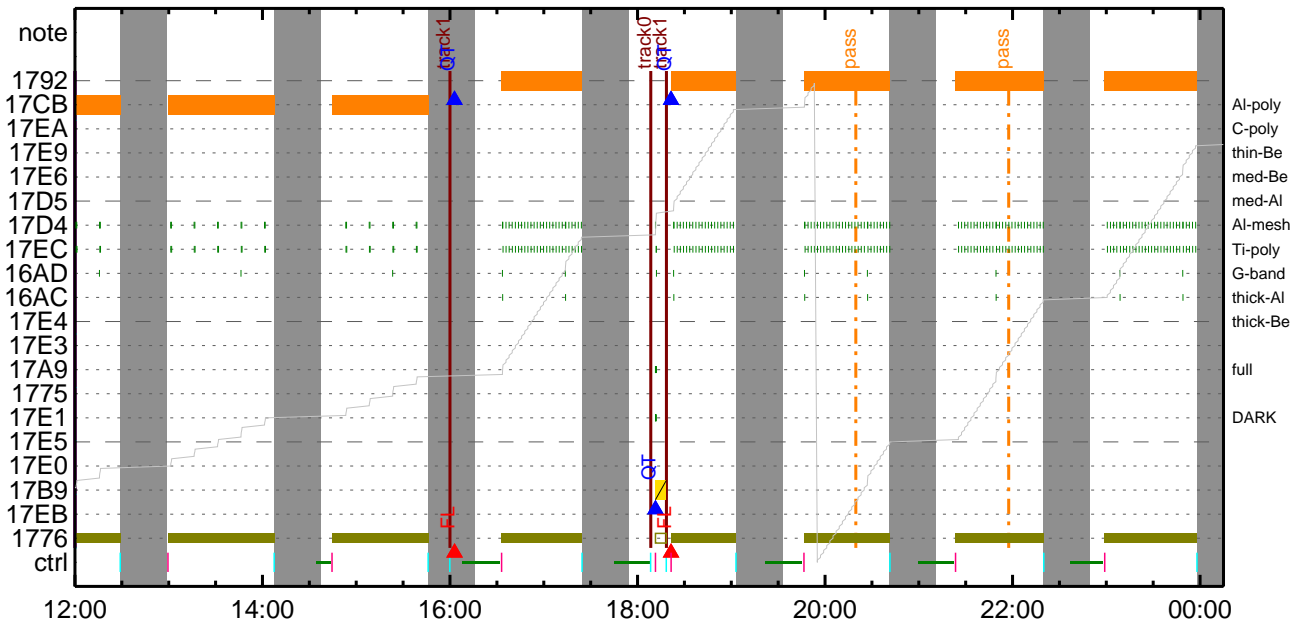
\* \* \* \* \*

| <b>FLD Patrol</b>               |                        |                               |      |       |      |     |  |                    |       |            |          |       |
|---------------------------------|------------------------|-------------------------------|------|-------|------|-----|--|--------------------|-------|------------|----------|-------|
| Term                            |                        | Pointing (x, y)               |      |       |      |     | Comment                                      |                    |       |            |          |       |
| 07/10 09:13:20 - 07/10 18:08:46 | Track ( 10.8, 148.0)   | Ⓢ 07/10 09:09:00              |      |       |      |     | # OP start + 10min: HOP146 disk coronal hole |                    |       |            |          |       |
| 07/10 18:18:48 - 07/11 05:55:46 | Track ( -754.9, 234.4) | Ⓢ 07/10 18:18:30              |      |       |      |     | cont.  |                    |       |            |          |       |
| 07/11 06:05:48 - 07/11 16:10:16 | Track ( -694.0, 228.5) | Ⓢ 07/11 06:05:30              |      |       |      |     | cont.  |                    |       |            |          |       |
| 07/11 22:00:18 - 07/12 06:05:46 | Fixed ( 854.0, 317.0)  | HOP165: AR remnant on NW-limb |      |       |      |     |  |                    |       |            |          |       |
| 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 |       |

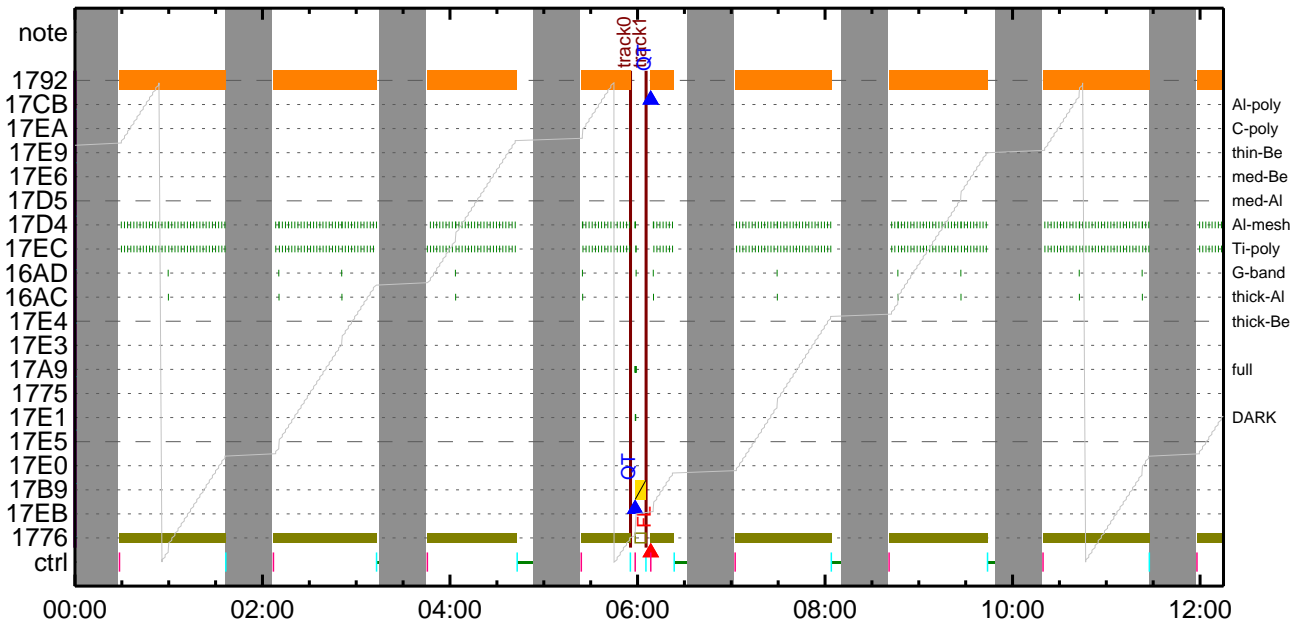
### CMDI #0369 2010/07/10



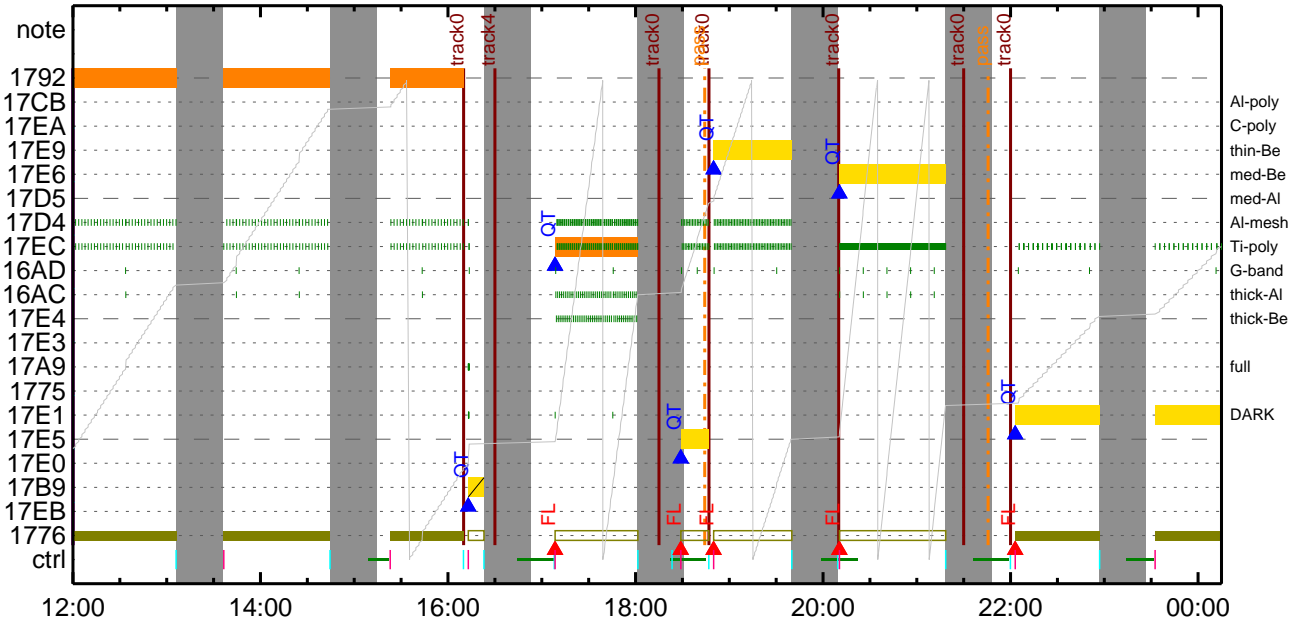
### CMDI #0369 2010/07/10



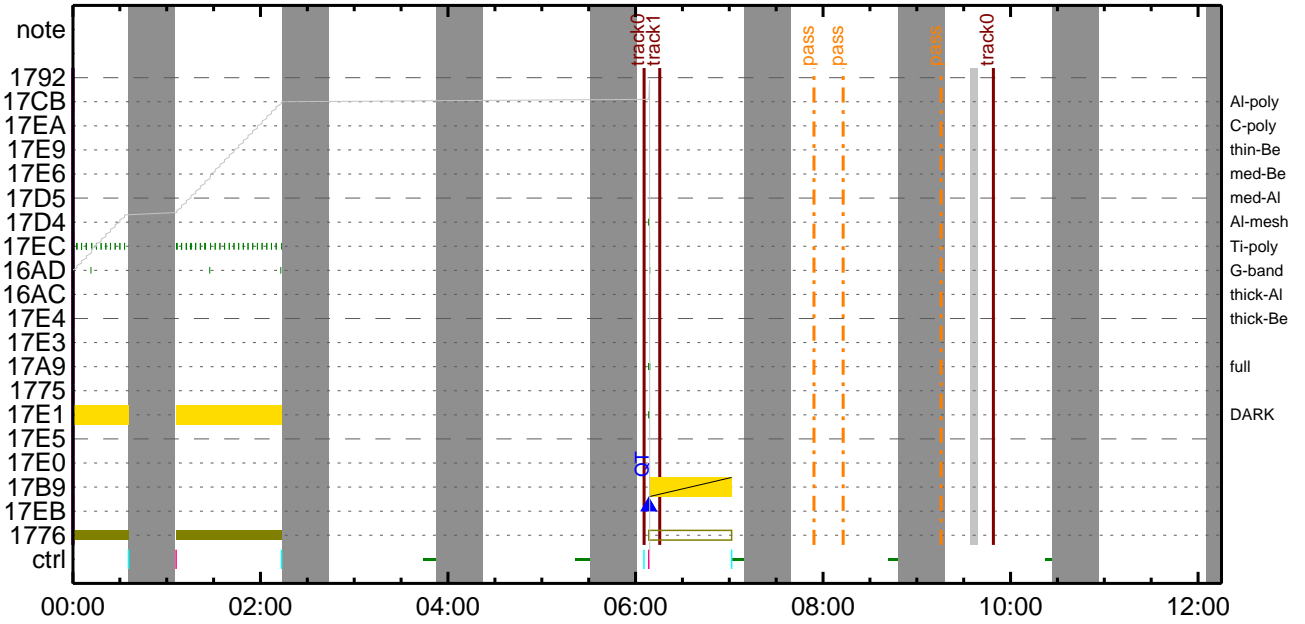
### CMDI #0369 2010/07/11



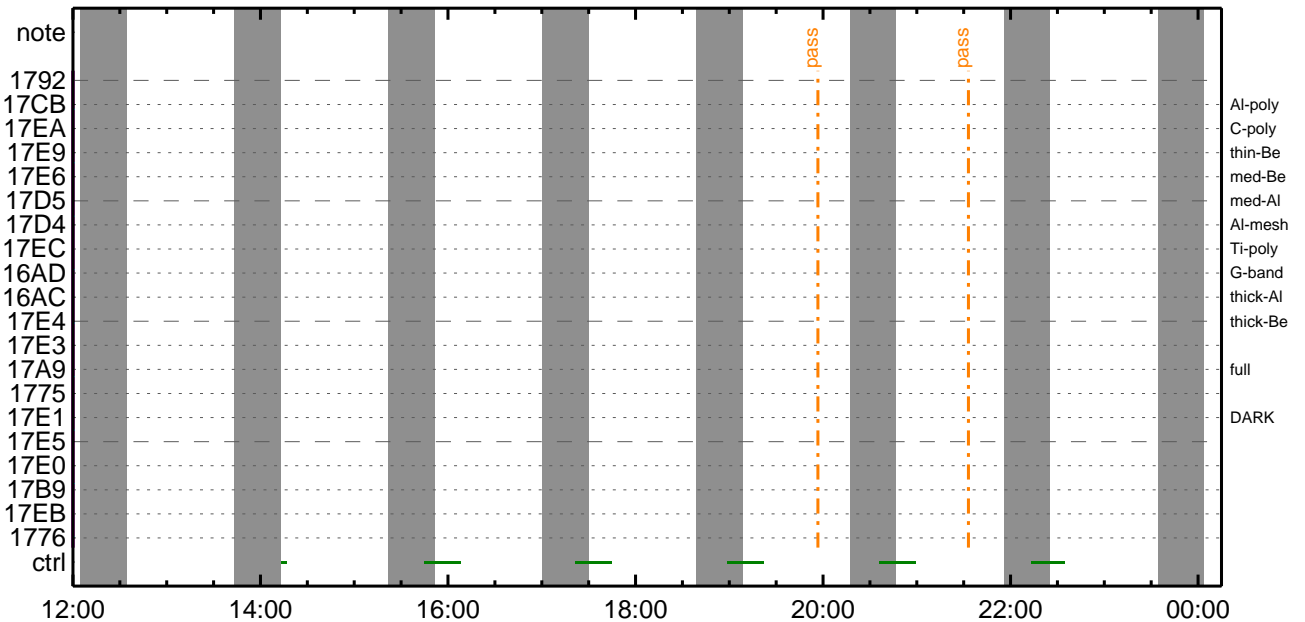
CMDI #0369 2010/07/11



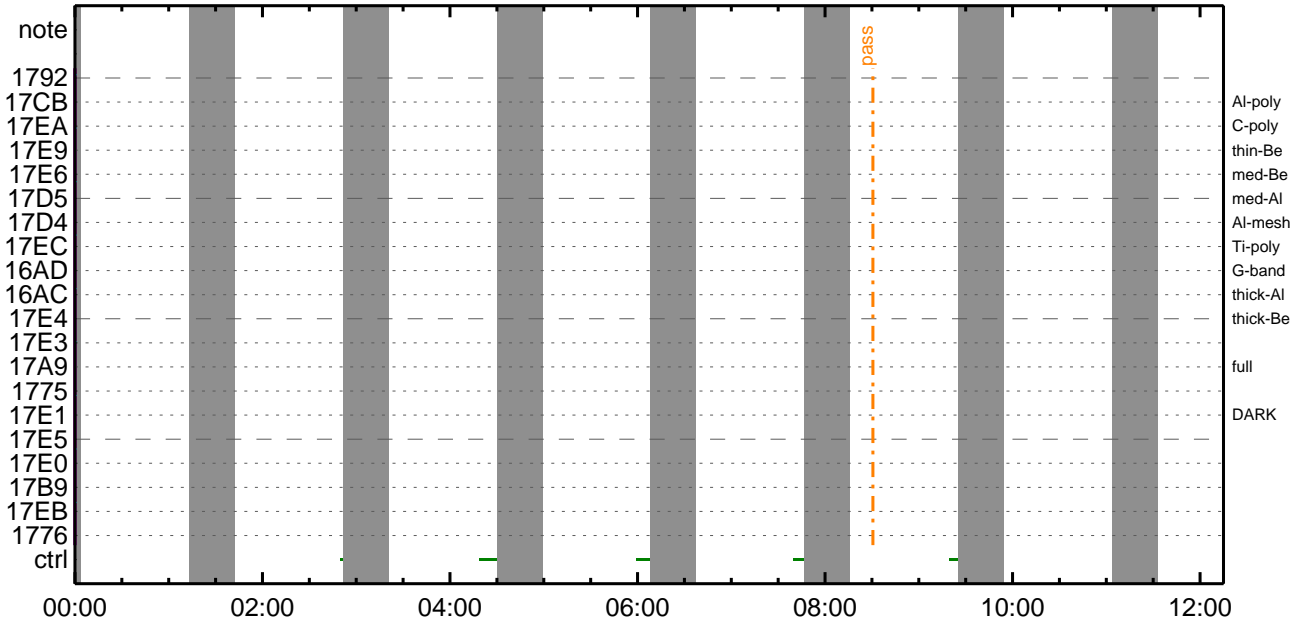
CMDI #0369 2010/07/12



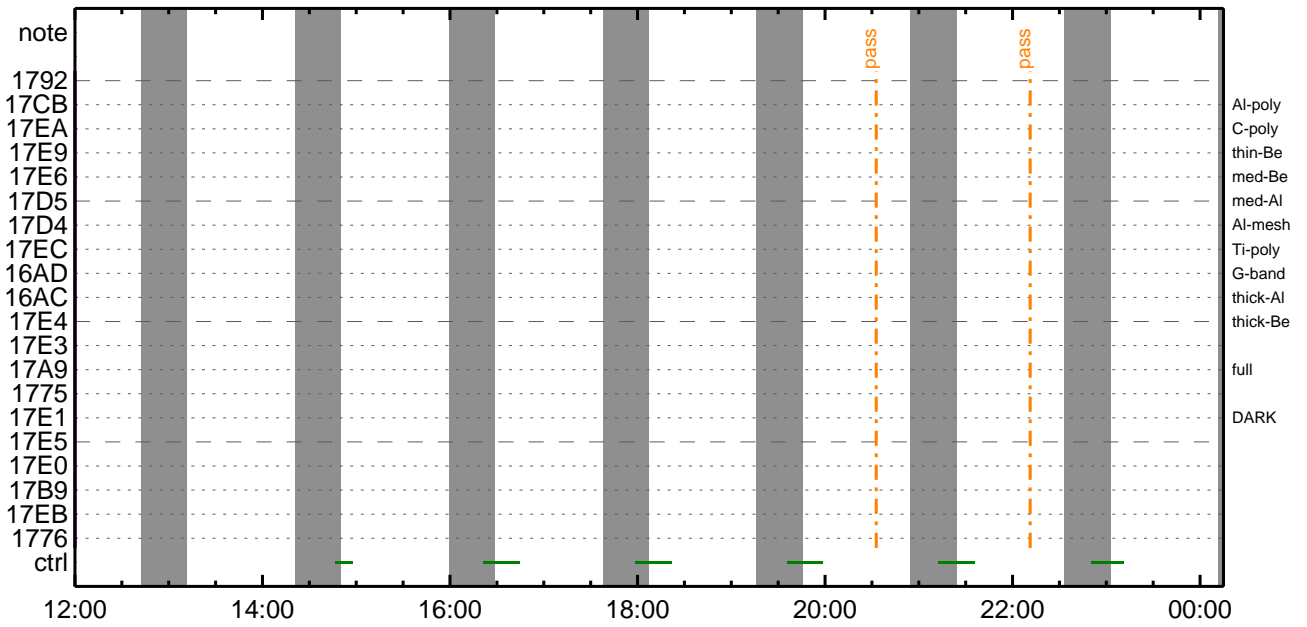
CMDI #0369 2010/07/12



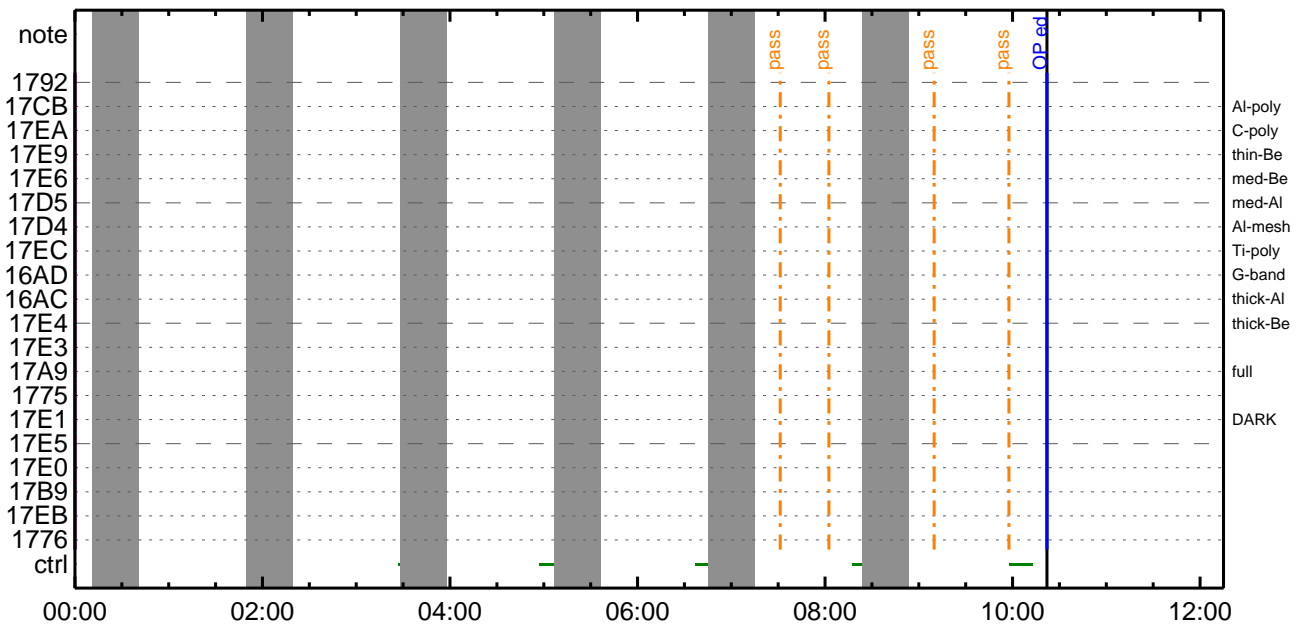
CMDI #0369 2010/07/13



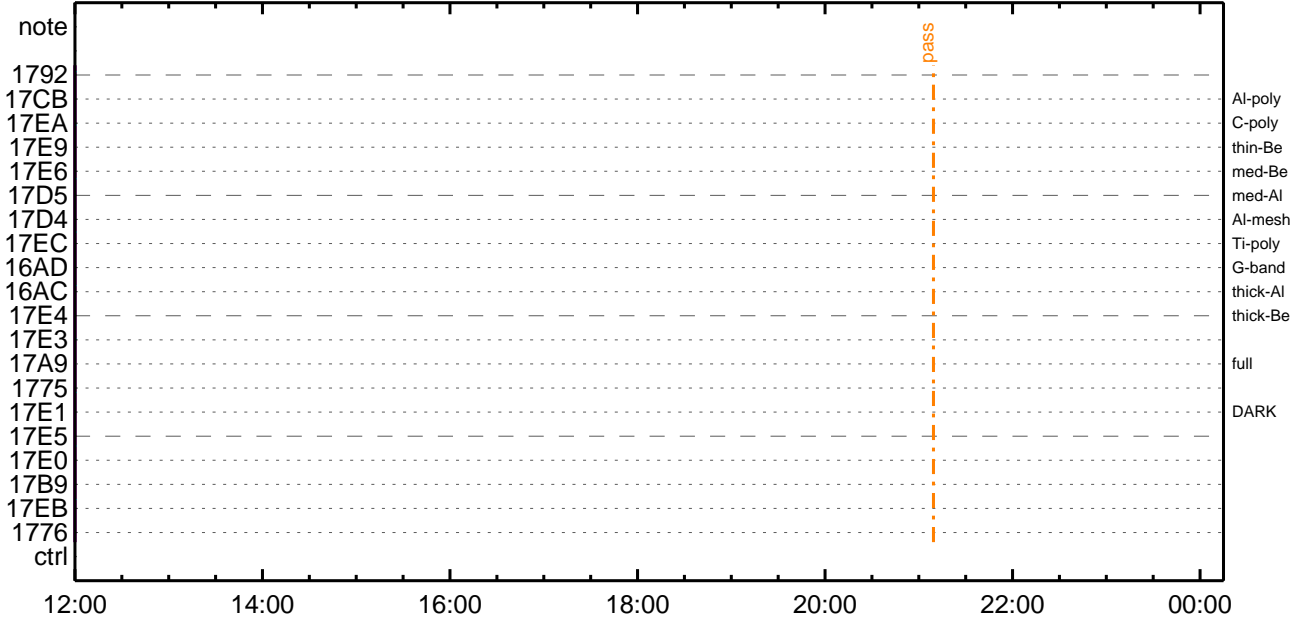
CMDI #0369 2010/07/13



CMDI #0369 2010/07/14



CMDI #0369 2010/07/14









```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥D¥!•İ Daily±;İÑøĒ'Øα¹αēDCBC•x²è *****
0198 . S. DC-BC dcbc-153:DCBC
0199 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200 C.
0201 C.
0202 . C. ;ãLOS¥Á¥S¥Ã¥~¼Â»Ü;ã
0203 C.
0204 . C. ***** LOS *****
0205 C.
```





(a) Spacecraft Operation Procedure (real-commands)

```
main-461 2010-07-10 14:56:58 140 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿øÁø•µ°È»ÍxÁÇøíYçYÁY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈøÈ¼°ÇÓø•ø¿¼í¹çøí;çÁ®, ùø¹øÈøÈøçÁ+¿®ø•øÈøøøøøÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG ____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR ____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 06 80 80 08 08)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 85 83 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 08 80 80 20 20)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 09 80 80 20 08)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 0a 80 80 08 20)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0b 84 82 0c 0c)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0c 8d 84 06 06)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0d 85 83 08 08)
0056 + DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 0e 80 80 08 06)
0058 + DC 07-F0 MDP_XRT_ROI_SET
0059 BC (cd 0f 80 80 06 06)
0060 + DC 07-F0 MDP_XRT_AEC_RESET
0061 BC (d0)
0062 . C. ----- Success Verify ? OK / NG ____
0063 C.
0064 C.
0065 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0066 C.
0067 +. DC 07-F0 MDP_XRT_MODE_OBSV
0068 BC (c2)
0069 +. TI 2010-07-10 08:58:02.0
0070 DC 07-F0 MDP_XRT_MODE_OBSV
0071 BC (c2)
0072 . C. ----- Success Verify ? OK / NG ____
0073 C.
0074 C. ***** XRT END *****
0075 . C. *****
0076 C. SOT table upload
0077 C. *****
0078 . C. < Stop FG table >
0079 +. DC 07-F0 MDP_FG_CTRL_MANU
0080 BC (51)
0081 . C. -----
0082 C. MDP_FG_CTRL_MODE = MANU [ ]
0083 C. -----
0084 C.
0085 . C. <Upload FG Observation Table>
0086 . S. RAM ram-269:MDP_OBS_F
0087 ( )
0088 C.
0089 . C. < Dump RAMID=MDP_OBS_F >
0090 +. DC 07-F0 MDP_DUMP_FGTBL
0091 BC (82 07 00 00 00 38 b8)
0092 C. -----
0093 C. MDP_OBS_F verify = OK/NG [ ]
0094 C. -----
0095 C.
```

```

0096 . C. < Stop SP table >
0097 +. DC 07-F0 MDP_SP_CTRL_MANU
0098 BC (61)
0099 C. -----
0100 C. MDP_SP_CTRL_MODE = MANU [ ]
0101 C. -----
0102 C.
0103 . C. <Upload SP Observation Table>
0104 . S. RAM ram-281:MDP_OBS_S
0105 ( )
0106 C.
0107 . C. < Dump RAMID=MDP_OBS_S >
0108 +. DC 07-F0 MDP_DUMP_SPTBL
0109 BC (83 07 00 00 00 38 b8)
0110 C. -----
0111 C. MDP_OBS_S verify = OK/NG [ ]
0112 C. -----
0113 C.
0114 C. *****
0115 C. SOT TI command set
0116 C. *****
0117 C. Execute, after the success of TBL upload.
0118 +. TI 2010-07-10 08:58:18.0
0119 DC 07-F0 MDP_SOT_MODE_OBSV
0120 BC (40)
0121 . C. -----
0122 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0123 C. -----
0124 C.
0125 C.
0126 . C. ***** MDP `uãîñî»ö%ýñëãðñ¹ñëDCBC•x²è *****
0127 C. (%á°îÿóÿãÿëÿþÿÿÿáÿçÿëñë%¼ñ¼â»Ûñ¹ñë)
0128 . S. DC-BC dcbc-402:DCBC
0129 (MDP_known_event)
0130 C.
0131 C.
0132 . C. ***** ÿDÿ¹•Ï Daily±¿îññë´øñ¹ñëDCBC•x²è *****
0133 . S. DC-BC dcbc-153:DCBC
0134 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0135 C.
0136 C.
0137 . C. ¡ãLOSÿÁÿ$ÿÃÿ-¼â»Û;ã
0138 C.
0139 . C. ***** LOS *****
0140 C.

```

Jul 10, 10 15:00

XRT\_OGLIST\_0369.chk

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

|            |            |                                      |   |       |    |    |    |    |    |
|------------|------------|--------------------------------------|---|-------|----|----|----|----|----|
| 2010/07/10 | 09:08:54.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 09:08:56.0 | XRT_FOCUS_RECALIBRATE_445_OG [0x1bd] |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_RECAL                      | 2 | 07-F8 | 78 | 00 |    |    |    |
| 2010/07/10 | 09:09:00.0 | AOCS_ORe-point_Start_1_OG [0x097]    |   |       |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 03 | 00 | 00 | 00 | 00 |
| 2010/07/10 | 09:12:56.0 | XRT_FOCUS_POSITION_409_OG [0x199]    |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2010/07/10 | 09:13:16.0 | XRT_AEC_RESET_410_OG [0x19a]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_AEC_RESET                    | 1 | 07-F0 | d0 |    |    |    |    |
| 2010/07/10 | 09:13:18.0 | XRT_FLD_RESET_412_OG [0x19c]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da |    |    |    |    |
| 2010/07/10 | 09:13:20.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8 |    |    |    |    |
| 2010/07/10 | 09:13:22.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8 |    |    |    |    |
| 2010/07/10 | 09:13:24.0 | XRT_ARS_DIS_420_OG [0x1a4]           |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5 |    |    |    |    |
| 2010/07/10 | 09:15:58.0 | XRT_QT_PROG_SET_423_OG [0x1a7]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 | 13 |    |    |    |
| 2010/07/10 | 09:16:00.0 | XRT_FL_PROG_SET_416_OG [0x1a0]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 | 01 |    |    |    |
| 2010/07/10 | 09:41:30.0 | XRT_Custom_418_OG [0x1a2]            |   |       |    |    |    |    |    |
| 2010/07/10 | 09:42:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2010/07/10 | 10:48:00.0 | XRT_CTRL_MANU_408_OG [0x198]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 11:20:00.0 | XRT_Custom_418_OG [0x1a2]            |   |       |    |    |    |    |    |
| 2010/07/10 | 11:21:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2010/07/10 | 12:29:00.0 | XRT_CTRL_MANU_408_OG [0x198]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 12:58:30.0 | XRT_Custom_418_OG [0x1a2]            |   |       |    |    |    |    |    |
| 2010/07/10 | 12:59:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2010/07/10 | 14:07:30.0 | XRT_CTRL_MANU_408_OG [0x198]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 14:43:30.0 | XRT_Custom_418_OG [0x1a2]            |   |       |    |    |    |    |    |
| 2010/07/10 | 14:44:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2010/07/10 | 15:46:00.0 | XRT_CTRL_MANU_408_OG [0x198]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 15:59:54.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 15:59:56.0 | XRT_FOCUS_POSITION_409_OG [0x199]    |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2010/07/10 | 16:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098]    |   |       |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 01 | 00 | 00 | 00 | 00 |
| 2010/07/10 | 16:00:16.0 | XRT_FLD_RESET_412_OG [0x19c]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da |    |    |    |    |
| 2010/07/10 | 16:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8 |    |    |    |    |
| 2010/07/10 | 16:00:20.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_ENA                  | 1 | 07-F0 | c8 |    |    |    |    |
| 2010/07/10 | 16:00:22.0 | XRT_ARS_DIS_431_OG [0x1af]           |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5 |    |    |    |    |
| 2010/07/10 | 16:02:54.0 | XRT_QT_PROG_SET_447_OG [0x1bf]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 | 14 |    |    |    |
| 2010/07/10 | 16:02:56.0 | XRT_FL_PROG_SET_416_OG [0x1a0]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FL_PROG_SET                  | 2 | 07-F0 | c5 | 01 |    |    |    |
| 2010/07/10 | 16:32:00.0 | XRT_Custom_418_OG [0x1a2]            |   |       |    |    |    |    |    |
| 2010/07/10 | 16:33:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2010/07/10 | 17:24:30.0 | XRT_CTRL_MANU_408_OG [0x198]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 18:08:24.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 18:08:26.0 | XRT_FOCUS_POSITION_401_OG [0x191]    |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 | ff | aa | 00 |    |
| 2010/07/10 | 18:08:30.0 | AOCS_ORe-point_Start_3_OG [0x099]    |   |       |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2010/07/10 | 18:08:46.0 | XRT_FLD_DIS_402_OG [0x192]           |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_DIS                      | 1 | 07-F0 | d9 |    |    |    |    |
| 2010/07/10 | 18:08:48.0 | XRT_FLRCTRL_DIS_403_OG [0x193]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLRCTRL_DIS                  | 1 | 07-F0 | c9 |    |    |    |    |
| 2010/07/10 | 18:08:50.0 | XRT_ARS_DIS_404_OG [0x194]           |   |       |    |    |    |    |    |
|            |            | MDP_XRT_ARS_DIS                      | 1 | 07-F0 | d5 |    |    |    |    |
| 2010/07/10 | 18:11:28.0 | XRT_QT_PROG_SET_407_OG [0x197]       |   |       |    |    |    |    |    |
|            |            | MDP_XRT_QT_PROG_SET                  | 2 | 07-F0 | c4 | 03 |    |    |    |
| 2010/07/10 | 18:11:30.0 | XRT_CTRL_AUTO_406_OG [0x196]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_AUTO                    | 1 | 07-F0 | c0 |    |    |    |    |
| 2010/07/10 | 18:18:24.0 | XRT_CTRL_MANU_400_OG [0x190]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_CTRL_MANU                    | 1 | 07-F0 | c1 |    |    |    |    |
| 2010/07/10 | 18:18:26.0 | XRT_FOCUS_POSITION_409_OG [0x199]    |   |       |    |    |    |    |    |
|            |            | XRT_FOCUS_POSITION                   | 4 | 07-F8 | 22 | fe | 97 | 00 |    |
| 2010/07/10 | 18:18:30.0 | AOCS_ORe-point_Start_2_OG [0x098]    |   |       |    |    |    |    |    |
|            |            | AOCU_NM                              | 5 | 02-76 | 01 | 00 | 00 | 00 | 00 |
| 2010/07/10 | 18:18:46.0 | XRT_FLD_RESET_412_OG [0x19c]         |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_RESET                    | 1 | 07-F0 | da |    |    |    |    |
| 2010/07/10 | 18:18:48.0 | XRT_FLD_ENA_411_OG [0x19b]           |   |       |    |    |    |    |    |
|            |            | MDP_XRT_FLD_ENA                      | 1 | 07-F0 | d8 |    |    |    |    |

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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2010/07/10 | 18:18:50.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2010/07/10 | 18:18:52.0 | XRT_ARS_DIS_420_OG [0x1a4]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2010/07/10 | 18:21:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 14          |
| 2010/07/10 | 18:21:28.0 | XRT_FL_PROG_SET_416_OG [0x1a0]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 01          |
| 2010/07/10 | 18:21:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/10 | 19:03:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/10 | 19:45:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/10 | 19:46:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/10 | 20:41:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/10 | 21:22:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/10 | 21:23:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/10 | 22:20:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/10 | 22:58:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/10 | 22:59:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/10 | 23:58:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 00:27:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 00:28:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 01:36:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 02:06:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 02:07:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 03:13:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 03:44:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 03:45:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 04:43:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 05:23:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 05:24:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 05:55:24.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 05:55:26.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2010/07/11 | 05:55:30.0 | AOCS_OrE-point_Start_3_OG [0x099] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2010/07/11 | 05:55:46.0 | XRT_FLD_DIS_402_OG [0x192]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2010/07/11 | 05:55:48.0 | XRT_FLRCTRL_DIS_403_OG [0x193]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2010/07/11 | 05:55:50.0 | XRT_ARS_DIS_404_OG [0x194]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2010/07/11 | 05:58:28.0 | XRT_QT_PROG_SET_407_OG [0x197]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 03          |
| 2010/07/11 | 05:58:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 06:05:24.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 06:05:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2010/07/11 | 06:05:30.0 | AOCS_OrE-point_Start_2_OG [0x098] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 01 00 00 00 00 |
| 2010/07/11 | 06:05:46.0 | XRT_FLD_RESET_412_OG [0x19c]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2010/07/11 | 06:05:48.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2010/07/11 | 06:05:50.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2010/07/11 | 06:05:52.0 | XRT_ARS_DIS_420_OG [0x1a4]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2010/07/11 | 06:08:26.0 | XRT_QT_PROG_SET_447_OG [0x1bf]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 14          |
| 2010/07/11 | 06:08:28.0 | XRT_FL_PROG_SET_416_OG [0x1a0]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 01          |
| 2010/07/11 | 06:08:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 06:23:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 07:01:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 07:02:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 08:04:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 08:40:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 08:41:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 09:44:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |



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|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2010/07/11 | 10:18:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 10:19:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 11:27:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 11:57:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 11:58:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 13:06:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 13:35:30.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 13:36:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 14:44:30.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 15:22:00.0 | XRT_Custom_418_OG [0x1a2]         |   |       |                |
| 2010/07/11 | 15:23:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 16:09:54.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 16:09:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 ff aa 00    |
| 2010/07/11 | 16:10:00.0 | AOCS_ORe-point_Start_3_OG [0x099] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 00 00 00 00 |
| 2010/07/11 | 16:10:16.0 | XRT_FLD_DIS_402_OG [0x192]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2010/07/11 | 16:10:18.0 | XRT_FLRCTRL_DIS_403_OG [0x193]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2010/07/11 | 16:10:20.0 | XRT_ARS_DIS_404_OG [0x194]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2010/07/11 | 16:12:58.0 | XRT_QT_PROG_SET_407_OG [0x197]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 03          |
| 2010/07/11 | 16:13:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 16:23:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 16:30:00.0 | AOCS_ORe-point_Start_4_OG [0x09a] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 04 00 00 00 00 |
| 2010/07/11 | 17:08:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 17:08:02.0 | XRT_FOCUS_POSITION_409_OG [0x199] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2010/07/11 | 17:08:22.0 | XRT_FLD_DIS_402_OG [0x192]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2010/07/11 | 17:08:24.0 | XRT_FLRCTRL_DIS_403_OG [0x193]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2010/07/11 | 17:08:26.0 | XRT_ARS_DIS_446_OG [0x1be]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2010/07/11 | 17:08:28.0 | XRT_QT_PROG_SET_437_OG [0x1b5]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 0d          |
| 2010/07/11 | 17:08:30.0 | XRT_FL_PROG_SET_416_OG [0x1a0]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 01          |
| 2010/07/11 | 17:08:32.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 18:01:30.5 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 18:15:00.0 | AOCS_ORe-point_Start_5_OG [0x09b] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 55 58 00 00 |
| 2010/07/11 | 18:23:24.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 18:23:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2010/07/11 | 18:23:46.0 | XRT_FLD_DIS_402_OG [0x192]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2010/07/11 | 18:23:48.0 | XRT_FLRCTRL_DIS_403_OG [0x193]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2010/07/11 | 18:23:50.0 | XRT_ARS_DIS_449_OG [0x1c1]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2010/07/11 | 18:28:56.0 | XRT_QT_PROG_SET_432_OG [0x1b0]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 05          |
| 2010/07/11 | 18:28:58.0 | XRT_FL_PROG_SET_416_OG [0x1a0]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 01          |
| 2010/07/11 | 18:29:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 18:46:54.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2010/07/11 | 18:46:56.0 | XRT_FOCUS_POSITION_409_OG [0x199] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2010/07/11 | 18:47:00.0 | AOCS_ORe-point_Start_6_OG [0x09c] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 00 c4 19 cb 03 |
| 2010/07/11 | 18:47:16.0 | XRT_FLD_DIS_402_OG [0x192]        |   |       |                |
|            |            | MDP_XRT_FLD_DIS                   | 1 | 07-F0 | d9             |
| 2010/07/11 | 18:47:18.0 | XRT_FLRCTRL_DIS_403_OG [0x193]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_DIS               | 1 | 07-F0 | c9             |
| 2010/07/11 | 18:47:20.0 | XRT_ARS_DIS_430_OG [0x1ae]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2010/07/11 | 18:49:56.0 | XRT_QT_PROG_SET_422_OG [0x1a6]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 11          |
| 2010/07/11 | 18:49:58.0 | XRT_FL_PROG_SET_416_OG [0x1a0]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 01          |
| 2010/07/11 | 18:50:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2010/07/11 | 19:40:00.0 | XRT_CTRL_MANU_408_OG [0x198]      |   |       |                |

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|------------|------------|-----------------------------------|---------------------|---|-------|----|----|----|-------|
| 2010/07/11 | 20:09:24.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/11 | 20:09:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/11 | 20:09:46.0 | XRT_FLD_DIS_402_OG [0x192]        | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00    |
| 2010/07/11 | 20:09:48.0 | XRT_FLRCTRL_DIS_403_OG [0x193]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |       |
| 2010/07/11 | 20:09:50.0 | XRT_ARS_DIS_438_OG [0x1b6]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |       |
| 2010/07/11 | 20:10:00.0 | AOCS_Ore-point_Start_7_OG [0x09d] | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2010/07/11 | 20:10:26.0 | XRT_QT_PROG_SET_439_OG [0x1b7]    | AOCU_NM             | 5 | 02-76 | 00 | e2 | a8 | 4c 72 |
| 2010/07/11 | 20:10:28.0 | XRT_FL_PROG_SET_416_OG [0x1a0]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 10 |    |       |
| 2010/07/11 | 20:10:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 01 |    |       |
| 2010/07/11 | 21:18:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2010/07/11 | 21:30:00.0 | AOCS_Ore-point_Start_8_OG [0x09e] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/11 | 21:59:54.0 | XRT_CTRL_MANU_400_OG [0x190]      | AOCU_NM             | 5 | 02-76 | 00 | 19 | db | 20 b4 |
| 2010/07/11 | 21:59:56.0 | XRT_FOCUS_POSITION_409_OG [0x199] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/11 | 22:00:00.0 | AOCS_Ore-point_Start_9_OG [0x09f] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | fe | 97 | 00    |
| 2010/07/11 | 22:00:16.0 | XRT_FLD_RESET_412_OG [0x19c]      | AOCU_NM             | 5 | 02-76 | 00 | e3 | cf | b4 19 |
| 2010/07/11 | 22:00:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da |    |    |       |
| 2010/07/11 | 22:00:20.0 | XRT_FLRCTRL_ENA_413_OG [0x19d]    | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8 |    |    |       |
| 2010/07/11 | 22:00:22.0 | XRT_ARS_DIS_420_OG [0x1a4]        | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |    |    |       |
| 2010/07/11 | 22:02:56.0 | XRT_QT_PROG_SET_426_OG [0x1aa]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2010/07/11 | 22:02:58.0 | XRT_FL_PROG_SET_416_OG [0x1a0]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 06 |    |       |
| 2010/07/11 | 22:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 01 |    |       |
| 2010/07/11 | 22:57:00.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2010/07/11 | 23:31:30.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/11 | 23:32:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | XRT_CTRL_AUTO       | 1 | 07-F0 | c0 |    |    |       |
| 2010/07/12 | 00:35:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/12 | 01:05:00.0 | XRT_Custom_418_OG [0x1a2]         | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/12 | 01:06:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3]      | XRT_CTRL_AUTO       | 1 | 07-F0 | c0 |    |    |       |
| 2010/07/12 | 02:13:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2010/07/12 | 06:05:24.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/12 | 06:05:26.0 | XRT_FOCUS_POSITION_401_OG [0x191] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
| 2010/07/12 | 06:05:30.0 | AOCS_Ore-point_Start_3_OG [0x099] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 | ff | aa | 00    |
| 2010/07/12 | 06:05:46.0 | XRT_FLD_DIS_402_OG [0x192]        | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 00 |
| 2010/07/12 | 06:05:48.0 | XRT_FLRCTRL_DIS_403_OG [0x193]    | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9 |    |    |       |
| 2010/07/12 | 06:05:50.0 | XRT_ARS_DIS_404_OG [0x194]        | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |    |    |       |
| 2010/07/12 | 06:08:28.0 | XRT_QT_PROG_SET_407_OG [0x197]    | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5 |    |    |       |
| 2010/07/12 | 06:08:30.0 | XRT_CTRL_AUTO_406_OG [0x196]      | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 03 |    |       |
| 2010/07/12 | 06:15:30.0 | AOCS_Ore-point_Start_2_OG [0x098] | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0 |    |    |       |
| 2010/07/12 | 07:01:30.0 | XRT_CTRL_MANU_408_OG [0x198]      | AOCU_NM             | 5 | 02-76 | 01 | 00 | 00 | 00 00 |
| 2010/07/12 | 09:49:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1 |    |    |       |
|            |            |                                   | AOCU_NM             | 5 | 02-76 | 00 | 00 | 00 | 00 00 |