

# XRT Timeline to be uploaded on 2013/08/01

Period: 2013/08/01 10:33:00 - 2013/08/06 09:16:00

\* \* \* \* \*

Normal mode

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| XOB #1982: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 1st Quadrant - Al/mesh, Ti/Poly-long - w leak image-33 ms |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
|---|----------------|-------------------------|-------|------|-------|-------|-----|------------------------|--------------------|--------------|-------|------------|----------|--------|
| Term  |                | Pointing (x, y)         |       |      |       |       |     | Comment                |                    |              |       |            |          |        |
| 08/02 16:31:00 - 08/02 16:33:54   |                | Fixed ( -528.4, -528.4) |       |      |       |       |     | #XRT Quadrant Obs. 1/4 |                    |              |       |            |          |        |
| <b>PROG= 03 1-time(s)</b>   |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
| └─ Subr= 1 1-time(s) 12.0sec  |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
| └─ Seqn= 1 1-time(s) 12.0sec  |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band             | open  | Safe | Norm  | 44ms  | Obs | 1x1                    | 1024x1024          | (1536, 1536) | Q=90  | 0          | 0        | 2.0sec |
|   | Open/G-band    | Open/G-band             | open  | Safe | Norm  | 44ms  | Obs | 1x1                    | 1024x1024          | (1536, 1536) | Q=90  | 0          | 0        | 2.0sec |
|   | Open/thick-Be  | Open/thick-Be           | close | Safe | Dark  | 44ms  | Obs | 1x1                    | 1024x1024          | (1536, 1536) | Q=98  | 0          | 0        | 2.0sec |
|   | Open/thick-Be  | Open/thick-Be           | close | Safe | Dark  | 44ms  | Obs | 1x1                    | 1024x1024          | (1536, 1536) | Q=98  | 0          | 0        | 2.0sec |
| └─ Subr= 2 1-time(s) 2.0sec   |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
| └─ Seqn= 6 2-time(s) 2.0sec   |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
|   | Open/Al-mesh   | Open/Ti-poly            | close | Safe | Norm  | 4.00s | Obs | 2x2                    | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|   | Open/Ti-poly   | Open/thick-Al           | close | Safe | Norm  | 8.00s | Obs | 2x2                    | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Subr= 3 2-time(s) 2.0sec   |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
| └─ Seqn= 12 1-time(s) 2.0sec  |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band             | close | Safe | Norm  | 32ms  | Obs | 1x1                    | 2048x2048          | (1024, 1024) | DPCM  | 0          | 0        | 2.0sec |
| └─ Seqn= 7 1-time(s) 2.0sec   |                |                         |       |      |       |       |     |                        |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band             | open  | Safe | Norm  | 12ms  | 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 #1983: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 2nd Quadrant - Al/mesh, Ti/Poly-long - w leak image-33 ms |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
|---|----------------|------------------------|-------|------|-------|-------|-----|---------|--------------------|--------------|-------|------------|----------|--------|
| Term  |                | Pointing (x, y)        |       |      |       |       |     | Comment |                    |              |       |            |          |        |
| 08/02 16:37:00 - 08/02 16:39:54   |                | Fixed ( 528.4, -528.4) |       |      |       |       |     | XRT 2/4 |                    |              |       |            |          |        |
| <b>PROG= 18 1-time(s)</b>   |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
| └─ Subr= 1 1-time(s) 12.0sec  |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
| └─ Seqn= 2 1-time(s) 12.0sec  |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band            | open  | Safe | Norm  | 44ms  | Obs | 1x1     | 1024x1024          | (512, 1536)  | Q=90  | 0          | 0        | 2.0sec |
|   | Open/G-band    | Open/G-band            | open  | Safe | Norm  | 44ms  | Obs | 1x1     | 1024x1024          | (512, 1536)  | Q=90  | 0          | 0        | 2.0sec |
|   | Open/thick-Be  | Open/thick-Be          | close | Safe | Dark  | 44ms  | Obs | 1x1     | 1024x1024          | (512, 1536)  | Q=98  | 0          | 0        | 2.0sec |
|   | Open/thick-Be  | Open/thick-Be          | close | Safe | Dark  | 44ms  | Obs | 1x1     | 1024x1024          | (512, 1536)  | Q=98  | 0          | 0        | 2.0sec |
| └─ Subr= 2 1-time(s) 2.0sec   |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
| └─ Seqn= 6 2-time(s) 2.0sec   |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
|   | Open/Al-mesh   | Open/Ti-poly           | close | Safe | Norm  | 4.00s | Obs | 2x2     | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|   | Open/Ti-poly   | Open/thick-Al          | close | Safe | Norm  | 8.00s | Obs | 2x2     | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Subr= 3 2-time(s) 2.0sec   |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
| └─ Seqn= 12 1-time(s) 2.0sec  |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band            | close | Safe | Norm  | 32ms  | Obs | 1x1     | 2048x2048          | (1024, 1024) | DPCM  | 0          | 0        | 2.0sec |
| └─ Seqn= 7 1-time(s) 2.0sec   |                |                        |       |      |       |       |     |         |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band            | open  | Safe | Norm  | 12ms  | 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 #1984: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 3rd Quadrant - Al/mesh, Ti/Poly-long - w leak image-33 ms |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
|---|----------------|-----------------------|-------|------|-------|-------|-----|---------|--------------------|--------------|-------|------------|----------|--------|
| Term  |                | Pointing (x, y)       |       |      |       |       |     | Comment |                    |              |       |            |          |        |
| 08/02 16:43:00 - 08/02 16:45:54   |                | Fixed ( 528.4, 528.4) |       |      |       |       |     | XRT 3/4 |                    |              |       |            |          |        |
| <b>PROG= 01 1-time(s)</b>   |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
| └─ Subr= 1 1-time(s) 12.0sec  |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
| └─ Seqn= 3 1-time(s) 12.0sec  |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band           | open  | Safe | Norm  | 44ms  | Obs | 1x1     | 1024x1024          | (512, 512)   | Q=90  | 0          | 0        | 2.0sec |
|   | Open/G-band    | Open/G-band           | open  | Safe | Norm  | 44ms  | Obs | 1x1     | 1024x1024          | (512, 512)   | Q=90  | 0          | 0        | 2.0sec |
|   | Open/thick-Be  | Open/thick-Be         | close | Safe | Dark  | 44ms  | Obs | 1x1     | 1024x1024          | (512, 512)   | Q=98  | 0          | 0        | 2.0sec |
|   | Open/thick-Be  | Open/thick-Be         | close | Safe | Dark  | 44ms  | Obs | 1x1     | 1024x1024          | (512, 512)   | Q=98  | 0          | 0        | 2.0sec |
| └─ Subr= 2 1-time(s) 2.0sec   |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
| └─ Seqn= 6 2-time(s) 2.0sec   |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
|   | Open/Al-mesh   | Open/Ti-poly          | close | Safe | Norm  | 4.00s | Obs | 2x2     | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
|   | Open/Ti-poly   | Open/thick-Al         | close | Safe | Norm  | 8.00s | Obs | 2x2     | 2048x2048          | (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| └─ Subr= 3 2-time(s) 2.0sec   |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
| └─ Seqn= 12 1-time(s) 2.0sec  |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band           | close | Safe | Norm  | 32ms  | Obs | 1x1     | 2048x2048          | (1024, 1024) | DPCM  | 0          | 0        | 2.0sec |
| └─ Seqn= 7 1-time(s) 2.0sec   |                |                       |       |      |       |       |     |         |                    |              |       |            |          |        |
|   | Open/G-band    | Open/G-band           | open  | Safe | Norm  | 12ms  | 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 #1985: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 4th Quadrant - Al/mesh, Ti/Poly-long - w leak image-33 ms |             |                        |      |      |      |      |     |         |           |             |      |   |   |        |
|---|-------------|------------------------|------|------|------|------|-----|---------|-----------|-------------|------|---|---|--------|
| Term  |             | Pointing (x, y)        |      |      |      |      |     | Comment |           |             |      |   |   |        |
| 08/02 16:49:00 - 08/02 16:51:54   |             | Fixed ( -528.4, 528.4) |      |      |      |      |     | XRT 4/4 |           |             |      |   |   |        |
| <b>PROG= 04 1-time(s)</b>   |             |                        |      |      |      |      |     |         |           |             |      |   |   |        |
| └─ Subr= 1 1-time(s) 12.0sec  |             |                        |      |      |      |      |     |         |           |             |      |   |   |        |
| └─ Seqn= 4 1-time(s) 12.0sec  |             |                        |      |      |      |      |     |         |           |             |      |   |   |        |
|   | Open/G-band | Open/G-band            | open | Safe | Norm | 44ms | Obs | 1x1     | 1024x1024 | (1536, 512) | Q=90 | 0 | 0 | 2.0sec |
|   | Open/G-band | Open/G-band            | open | Safe | Norm | 44ms | Obs | 1x1     | 1024x1024 | (1536, 512) | Q=90 | 0 | 0 | 2.0sec |

|                 |                |                  |               |       |       |     |     |                        |       |            |          |        |
|-----------------|----------------|------------------|---------------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| Open/thick-Be   | Open/thick-Be  | close            | Safe          | Dark  | 44ms  | Obs | 1x1 | 1024x1024 (1536, 512)  | Q=98  | 0          | 0        | 2.0sec |
| Open/thick-Be   | Open/thick-Be  | close            | Safe          | Dark  | 44ms  | Obs | 1x1 | 1024x1024 (1536, 512)  | Q=98  | 0          | 0        | 2.0sec |
| <b>Subr= 2</b>  |                | <b>1-time(s)</b> | <b>2.0sec</b> |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 6</b>  |                | <b>2-time(s)</b> | <b>2.0sec</b> |       |       |     |     |                        |       |            |          |        |
| Open/Al-mesh    | Open/Ti-poly   | close            | Safe          | Norm  | 4.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Ti-poly    | Open/thick-Al  | close            | Safe          | Norm  | 8.00s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Subr= 3</b>  |                | <b>1-time(s)</b> | <b>2.0sec</b> |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 12</b> |                | <b>1-time(s)</b> | <b>2.0sec</b> |       |       |     |     |                        |       |            |          |        |
| Open/G-band     | Open/G-band    | close            | Safe          | Norm  | 32ms  | Obs | 1x1 | 2048x2048 (1024, 1024) | DPCM  | 0          | 0        | 2.0sec |
| <b>Seqn= 7</b>  |                | <b>1-time(s)</b> | <b>2.0sec</b> |       |       |     |     |                        |       |            |          |        |
| Open/G-band     | Open/G-band    | open             | Safe          | Norm  | 12ms  | 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 |        |

| <b>XOB #19A7: AR Standard-A(Filter-Ratio) with PFB, FW1=Open, 384x384 at 1064 1048, 30s cad With G-band and VLS closed</b> |                        |  |                   |  |  |  |  |  |  |  |  |  |
|--|------------------------|--|-------------------|--|--|--|--|--|--|--|--|--|
| Term   | Pointing (x, y)        |  | Comment           |  |  |  |  |  |  |  |  |  |
| 08/02 17:38:30 - 08/02 17:54:54  | Track ( 193.3, -388.1) |  | AR obs NOAA 11806 |  |  |  |  |  |  |  |  |  |
| 08/02 18:08:00 - 08/03 06:29:24  | Track ( 203.5, -387.9) |  | #AR Obs. Cont     |  |  |  |  |  |  |  |  |  |
| 08/03 06:42:30 - 08/03 08:36:00  | Track ( 306.9, -385.2) |  | #AR Obs. Cont.    |  |  |  |  |  |  |  |  |  |

| <b>PROG= 09 Inf.-time(s)</b> |                |                    |                |       |       |     |     |                      |       |            |          |        |
|------------------------------|----------------|--------------------|----------------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| <b>Subr= 2</b>               |                | <b>1-time(s)</b>   | <b>2.0sec</b>  |       |       |     |     |                      |       |            |          |        |
| <b>Seqn= 78</b>              |                | <b>1-time(s)</b>   | <b>2.0sec</b>  |       |       |     |     |                      |       |            |          |        |
| Open/Ti-poly                 | Open/thick-Al  | close              | Safe           | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| Open/G-band                  | Open/G-band    | open               | Safe           | Norm  | 12ms  | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| Open/G-band                  | Open/G-band    | close              | Safe           | Norm  | 32ms  | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
| <b>Seqn= 62</b>              |                | <b>4-time(s)</b>   | <b>2.0sec</b>  |       |       |     |     |                      |       |            |          |        |
| Open/Ti-poly                 | Open/thick-Al  | close              | Safe           | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| Open/thick-Al                | Open/thick-Be  | close              | Safe           | Norm  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| <b>Seqn= 89</b>              |                | <b>100-time(s)</b> | <b>30.0sec</b> |       |       |     |     |                      |       |            |          |        |
| Open/Al-mesh                 | Open/thick-Al  | close              | Safe           | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| Open/Ti-poly                 | Open/thick-Be  | close              | Safe           | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 0        | 2.0sec |
| Open/Al-mesh                 | Open/thick-Al  | close              | Safe           | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |
| Open/Ti-poly                 | Open/thick-Be  | close              | Safe           | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 1        | 2.0sec |
| Open/Al-mesh                 | Open/thick-Al  | close              | Safe           | Norm  | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |
| Open/Ti-poly                 | Open/thick-Be  | close              | Safe           | Norm  | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95  | 3          | 2        | 2.0sec |
| Default Filter               | Thicker Filter | VLS                | mode           | image | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |

| <b>XOB #199E: Synoptic Q95 2x2 - Al/mesh(12/128/723) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Ti-poly(33/362/1443) + G-b</b> |                   |  |                            |  |  |  |  |  |  |  |  |  |
|---|-------------------|--|----------------------------|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)   |  | Comment                    |  |  |  |  |  |  |  |  |  |
| 08/02 17:58:00 - 08/02 18:04:54   | Fixed ( 0.0, 0.0) |  | synoptic, shifted -5.0 min |  |  |  |  |  |  |  |  |  |
| 08/03 06:32:30 - 08/03 06:39:24   | Fixed ( 0.0, 0.0) |  | synoptic, shifted 29.5 min |  |  |  |  |  |  |  |  |  |

| <b>PROG= 16 1-time(s)</b> |                |                  |                |       |       |     |     |                        |       |            |          |        |
|---------------------------|----------------|------------------|----------------|-------|-------|-----|-----|------------------------|-------|------------|----------|--------|
| <b>Subr= 1</b>            |                | <b>1-time(s)</b> | <b>12.0sec</b> |       |       |     |     |                        |       |            |          |        |
| <b>Seqn= 82</b>           |                | <b>1-time(s)</b> | <b>4.0sec</b>  |       |       |     |     |                        |       |            |          |        |
| Open/Al-mesh              | Open/Al-mesh   | close            | Safe           | Norm  | 12ms  | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh              | Open/Al-mesh   | close            | Safe           | Norm  | 125ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Al-mesh              | Open/Al-mesh   | close            | Safe           | Norm  | 707ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 5</b>            |                | <b>1-time(s)</b> | <b>2.0sec</b>  |       |       |     |     |                        |       |            |          |        |
| 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 |
| <b>Seqn= 83</b>           |                | <b>1-time(s)</b> | <b>4.0sec</b>  |       |       |     |     |                        |       |            |          |        |
| 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  | 354ms | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| Open/Ti-poly              | Open/Ti-poly   | close            | Safe           | Norm  | 1.41s | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |
| <b>Seqn= 66</b>           |                | <b>1-time(s)</b> | <b>2.0sec</b>  |       |       |     |     |                        |       |            |          |        |
| Open/G-band               | Open/G-band    | open             | Safe           | Norm  | 8ms   | Obs | 2x2 | 2048x2048 (1024, 1024) | Q=90  | 0          | 0        | 2.0sec |
| Open/G-band               | Open/G-band    | close            | Safe           | Norm  | 32ms  | Obs | 1x1 | 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 |        |

\* \* \* \* \*

**Flare mode**

\* \* \* \* \*

| <b>XOB #199C: Flare Standard Obs. with eruptions mode-A (FW1=Open and VLS-Closed)</b> |                        |  |                   |  |  |  |  |  |  |  |  |  |
|---|------------------------|--|-------------------|--|--|--|--|--|--|--|--|--|
| Term  | Pointing (x, y)        |  | Comment           |  |  |  |  |  |  |  |  |  |
| 08/02 17:38:30 - 08/02 17:54:54   | Track ( 193.3, -388.1) |  | AR obs NOAA 11806 |  |  |  |  |  |  |  |  |  |
| 08/02 18:08:00 - 08/03 06:29:24   | Track ( 203.5, -387.9) |  | #AR Obs. Cont     |  |  |  |  |  |  |  |  |  |
| 08/03 06:42:30 - 08/03 08:36:00   | Track ( 306.9, -385.2) |  | #AR Obs. Cont.    |  |  |  |  |  |  |  |  |  |

| <b>PROG= 08 1-time(s)</b> |               |                   |                |      |       |     |     |                      |      |   |   |        |
|---------------------------|---------------|-------------------|----------------|------|-------|-----|-----|----------------------|------|---|---|--------|
| <b>Subr= 1</b>            |               | <b>30-time(s)</b> | <b>20.0sec</b> |      |       |     |     |                      |      |   |   |        |
| <b>Seqn= 58</b>           |               | <b>1-time(s)</b>  | <b>2.0sec</b>  |      |       |     |     |                      |      |   |   |        |
| Open/thick-Al             | Open/thick-Al | close             | Safe           | Norm | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| Open/thick-Be             | Open/thick-Be | close             | Safe           | Norm | 2.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=95 | 3 | 0 | 2.0sec |
| <b>Seqn= 64</b>           |               | <b>1-time(s)</b>  | <b>2.0sec</b>  |      |       |     |     |                      |      |   |   |        |
| Open/Al-mesh              | Open/Al-mesh  | close             | Safe           | Norm | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |
| Open/Ti-poly              | Open/Ti-poly  | close             | Safe           | Norm | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=95 | 2 | 0 | 2.0sec |
| <b>Subr= 2</b>            |               | <b>1-time(s)</b>  | <b>2.0sec</b>  |      |       |     |     |                      |      |   |   |        |

|                |               |                |       |          |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
|----------------|---------------|----------------|-------|----------|------|-------|-----|-------|----------------------|------|---|-----|--------|-----|--|--------------------|--|-------|--|------------|--|----------|--|
| └─ Seqn= 79    |               | 1-time(s)      |       | 2.0sec   |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/G-band   | Open/G-band    | open  | Safe     | Norm | 63ms  | Obs | 1x1   | 384x384 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/G-band   | Open/G-band    | close | Safe     | Norm | 32ms  | Obs | 1x1   | 384x384 (1024, 1024) | DPCM | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Dark | 1.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Dark | 1.00s | Obs | 2x2   | 512x512 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| Subr= 3        |               | 30-time(s)     |       | 60.0sec  |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| └─ Seqn= 58    |               | 1-time(s)      |       | 2.0sec   |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Norm | 1.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=95 | 3 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-Be | Open/thick-Be  | close | Safe     | Norm | 2.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=95 | 3 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| └─ Seqn= 60    |               | 1-time(s)      |       | 2.0sec   |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/AI-mesh  | Open/AI-mesh   | close | Safe     | Norm | 125ms | Obs | 2x2   | 512x512 (1024, 1024) | Q=95 | 2 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/Ti-poly  | Open/Ti-poly   | close | Safe     | Norm | 1.00s | Obs | 2x2   | 512x512 (1024, 1024) | Q=95 | 2 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| 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 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/G-band   | Open/G-band    | close | Safe     | Norm | 32ms  | Obs | 1x1   | 384x384 (1024, 1024) | DPCM | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Dark | 1.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Dark | 1.00s | Obs | 2x2   | 512x512 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| Subr= 3        |               | 30-time(s)     |       | 60.0sec  |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| └─ Seqn= 58    |               | 1-time(s)      |       | 2.0sec   |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Norm | 1.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=95 | 3 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-Be | Open/thick-Be  | close | Safe     | Norm | 2.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=95 | 3 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| └─ Seqn= 60    |               | 1-time(s)      |       | 2.0sec   |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/AI-mesh  | Open/AI-mesh   | close | Safe     | Norm | 125ms | Obs | 2x2   | 512x512 (1024, 1024) | Q=95 | 2 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/Ti-poly  | Open/Ti-poly   | close | Safe     | Norm | 1.00s | Obs | 2x2   | 512x512 (1024, 1024) | Q=95 | 2 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| 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 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/G-band   | Open/G-band    | close | Safe     | Norm | 32ms  | Obs | 1x1   | 384x384 (1024, 1024) | DPCM | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Dark | 1.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Dark | 1.00s | Obs | 2x2   | 512x512 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| Subr= 3        |               | 30-time(s)     |       | 60.0sec  |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| └─ Seqn= 58    |               | 1-time(s)      |       | 2.0sec   |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-AI | Open/thick-AI  | close | Safe     | Norm | 1.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=95 | 3 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/thick-Be | Open/thick-Be  | close | Safe     | Norm | 2.00s | Obs | 1x1   | 384x384 (1024, 1024) | Q=95 | 3 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| └─ Seqn= 60    |               | 1-time(s)      |       | 2.0sec   |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/AI-mesh  | Open/AI-mesh   | close | Safe     | Norm | 125ms | Obs | 2x2   | 512x512 (1024, 1024) | Q=95 | 2 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/Ti-poly  | Open/Ti-poly   | close | Safe     | Norm | 1.00s | Obs | 2x2   | 512x512 (1024, 1024) | Q=95 | 2 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| Subr= 4        |               | 24-time(s)     |       | 600.0sec |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| └─ Seqn= 61    |               | 1-time(s)      |       | 2.0sec   |      |       |     |       |                      |      |   |     |        |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/AI-mesh  | Open/thick-AI  | close | Safe     | Norm | 500ms | Obs | 1x1   | 384x384 (1024, 1024) | Q=95 | 1 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/Ti-poly  | Open/thick-Be  | close | Safe     | Norm | 500ms | Obs | 1x1   | 384x384 (1024, 1024) | Q=95 | 1 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/G-band   | Open/G-band    | open  | Safe     | Norm | 63ms  | Obs | 1x1   | 384x384 (1024, 1024) | Q=98 | 0 | 0   | 2.0sec |     |  |                    |  |       |  |            |  |          |  |
| ├─             | Open/AI-mesh  | Open/AI-mesh   | close | Safe     | Dark | 1.00s | 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

\* \* \* \* \*

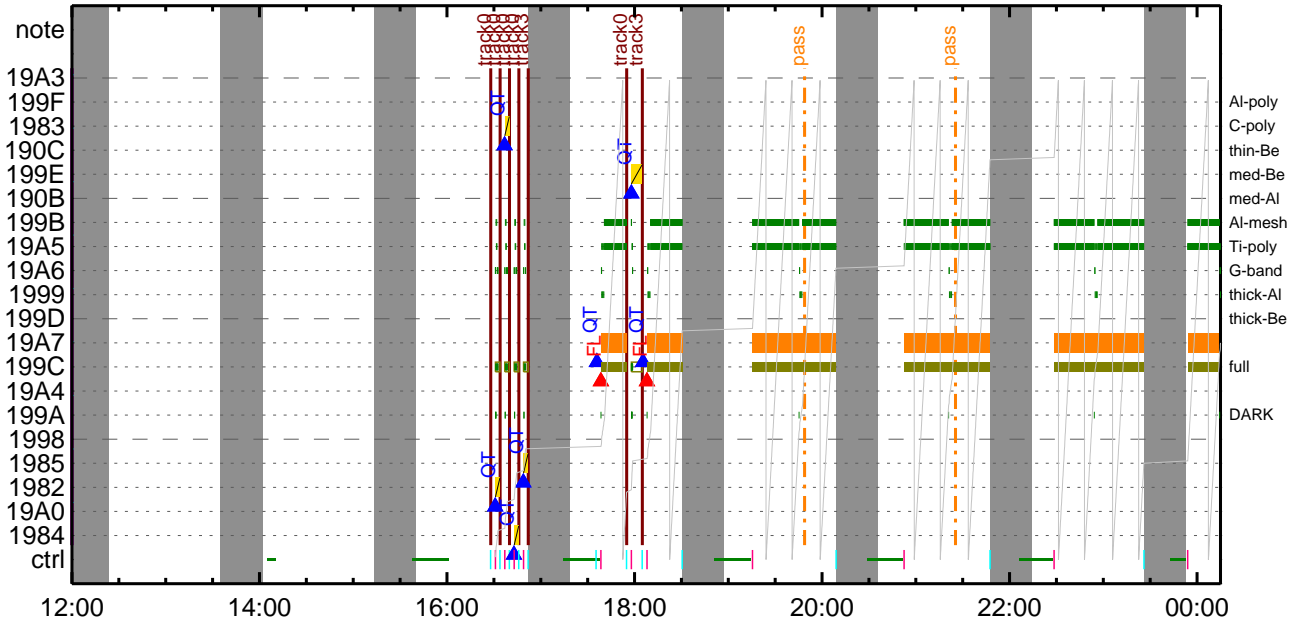
**Flare Detection**

\* \* \* \* \*

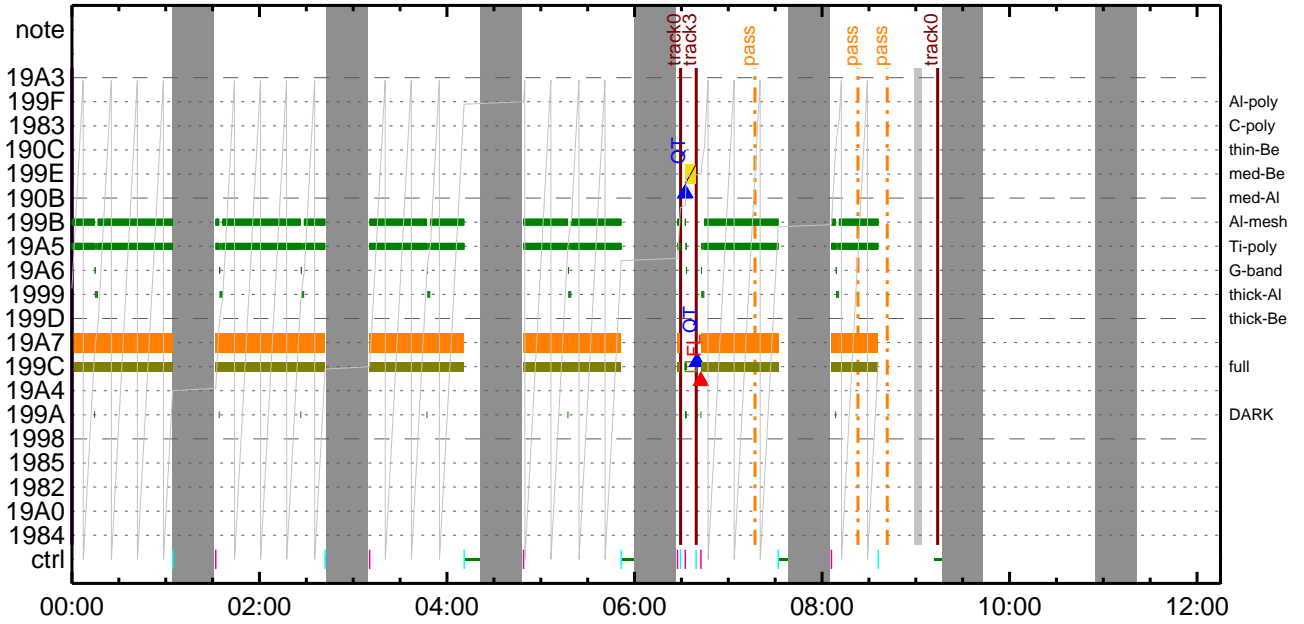
| FLD Patrol                      |               |   |      |      |     |      |     |                   |  |       |  |     |  |     |  |                    |  |       |  |            |  |          |  |
|---------------------------------|---------------|---|------|------|-----|------|-----|-------------------|--|-------|--|-----|--|-----|--|--------------------|--|-------|--|------------|--|----------|--|
| Term                            |               | Pointing (x, y)                         |      |      |     |      |     | Comment           |  |       |  |     |  |     |  |                    |  |       |  |            |  |          |  |
| 08/02 17:35:46 - 08/02 17:55:16 |               | Track ( 193.3, -388.1) @ 08/02 16:52:00 |      |      |     |      |     | AR obs NOAA 11806 |  |       |  |     |  |     |  |                    |  |       |  |            |  |          |  |
| 08/02 18:05:16 - 08/03 06:29:46 |               | Track ( 203.5, -387.9) @ 08/02 18:05:00 |      |      |     |      |     | #AR Obs. Cont     |  |       |  |     |  |     |  |                    |  |       |  |            |  |          |  |
| 08/03 06:39:46 - 08/06 09:16:00 |               | Track ( 306.9, -385.2) @ 08/03 06:39:30 |      |      |     |      |     | #AR Obs. Cont.    |  |       |  |     |  |     |  |                    |  |       |  |            |  |          |  |
| Open/Ti-poly                    | Open/thick-AI | 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 |  |



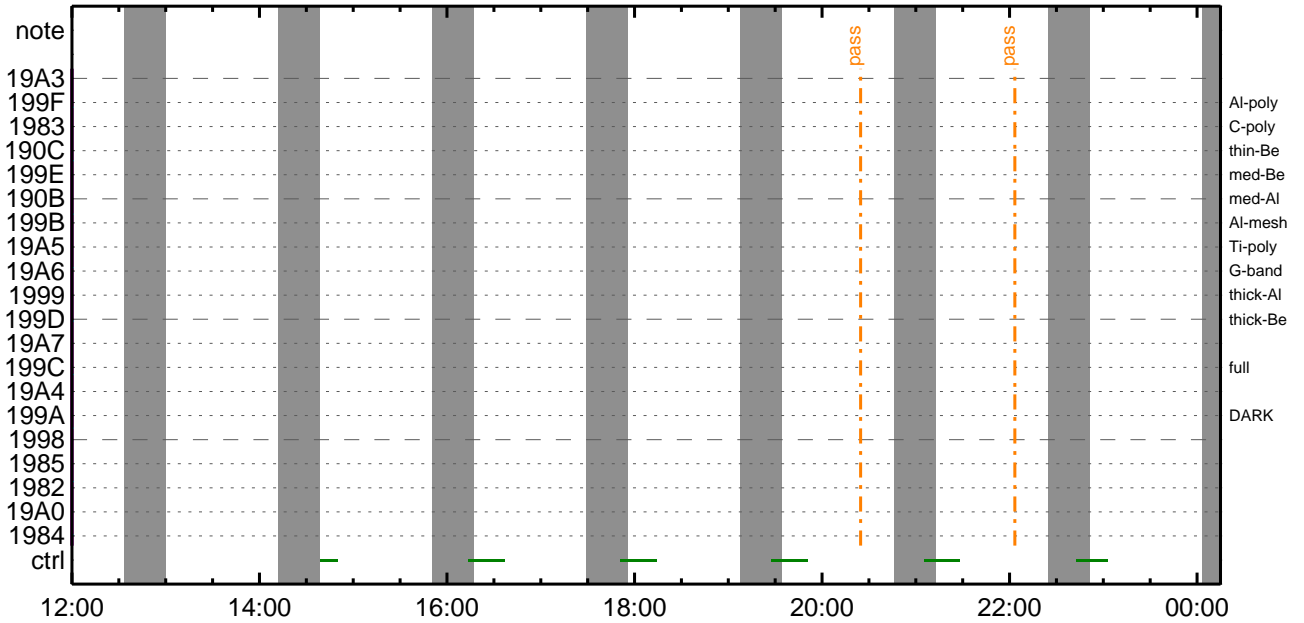
CMDI #0637 2013/08/02



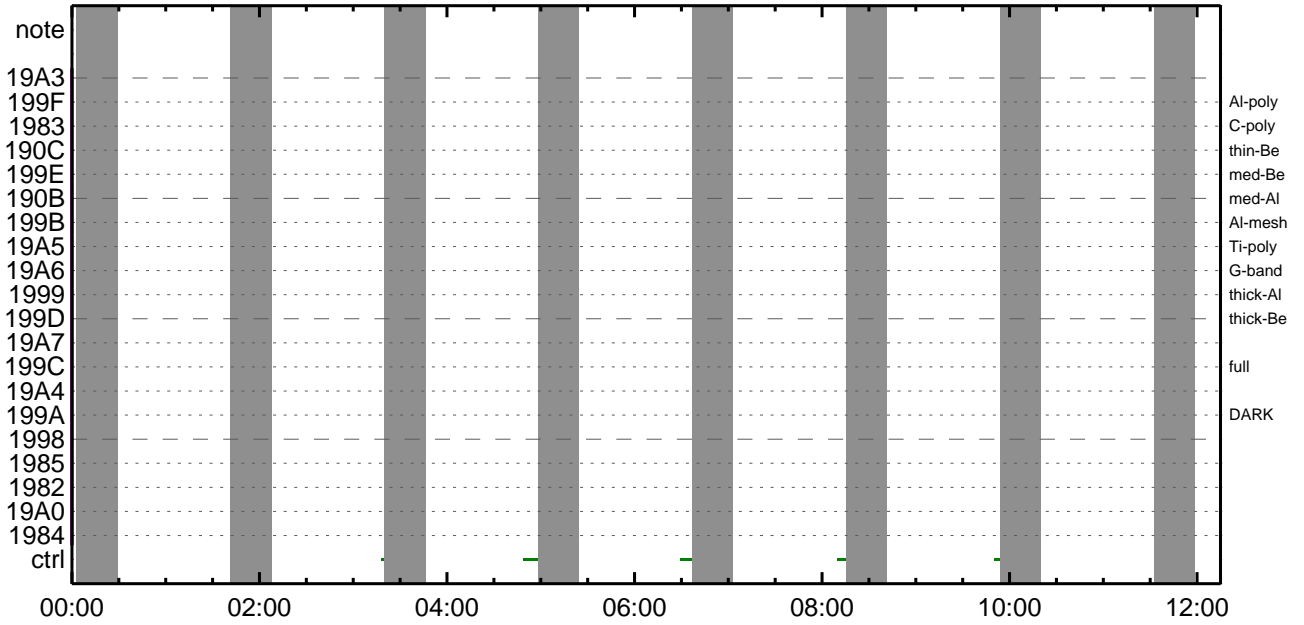
CMDI #0637 2013/08/03



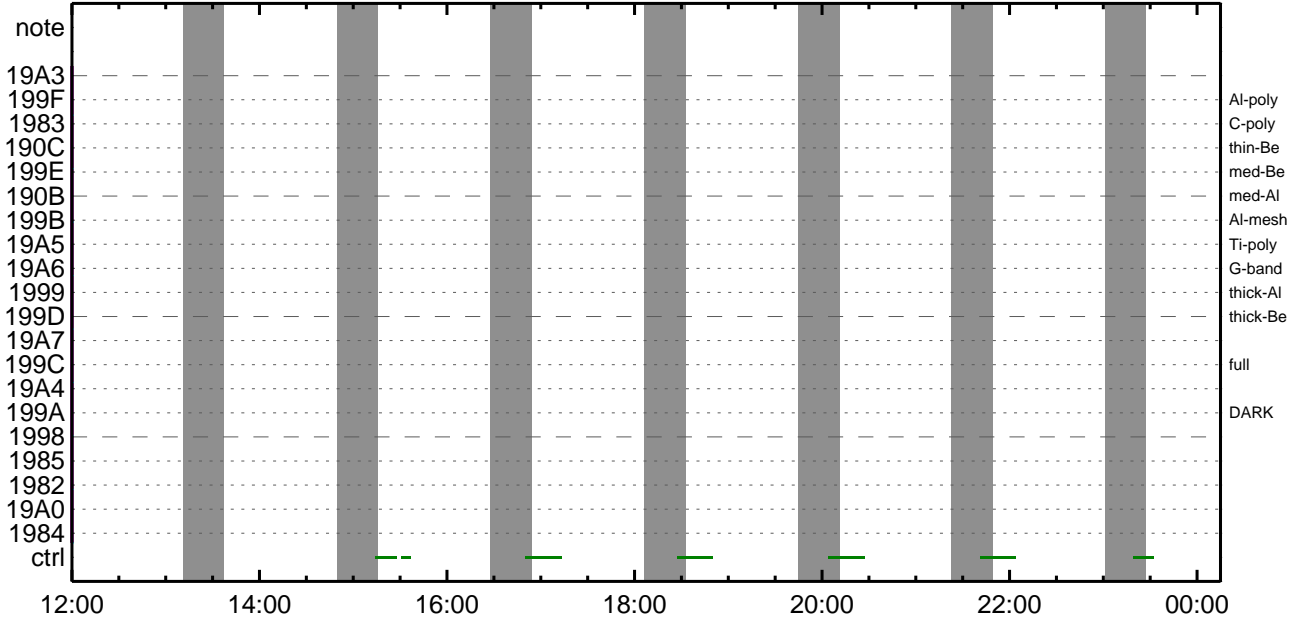
CMDI #0637 2013/08/03



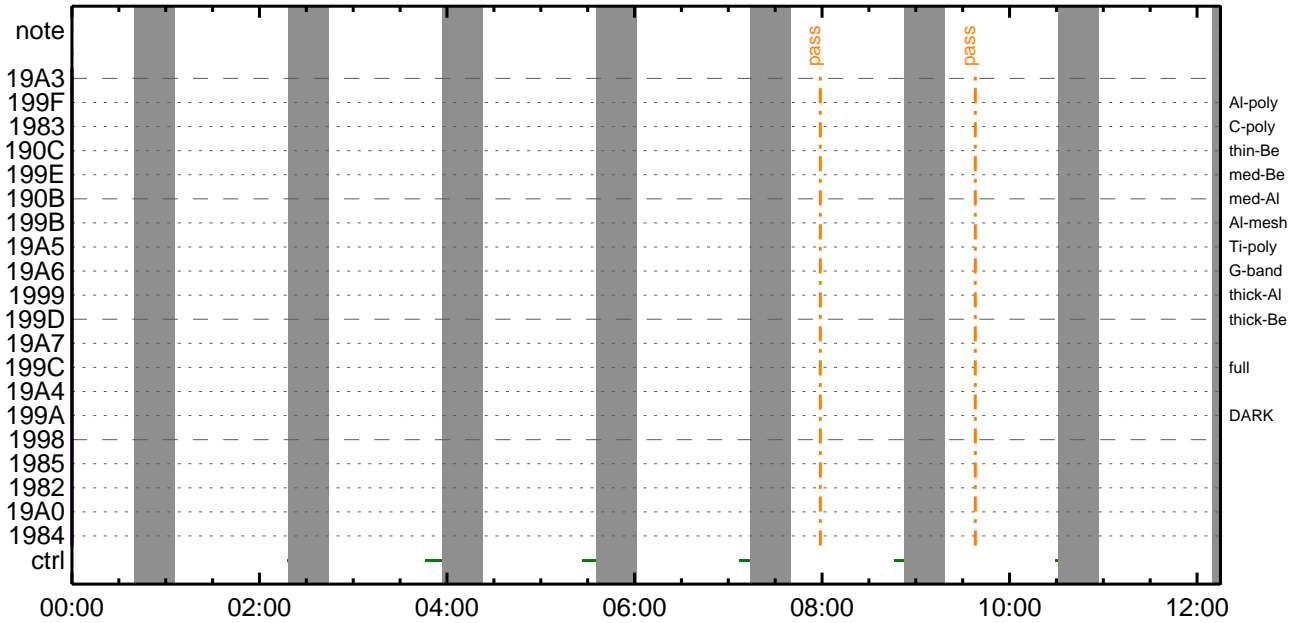
CMDI #0637 2013/08/04



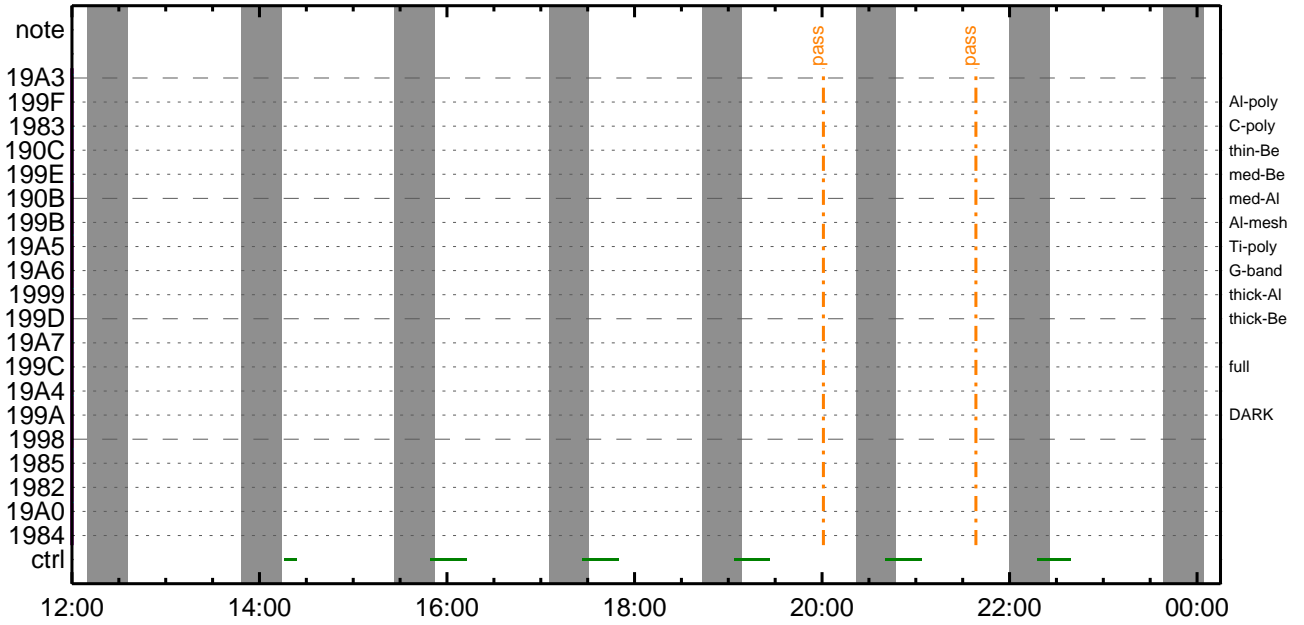
CMDI #0637 2013/08/04



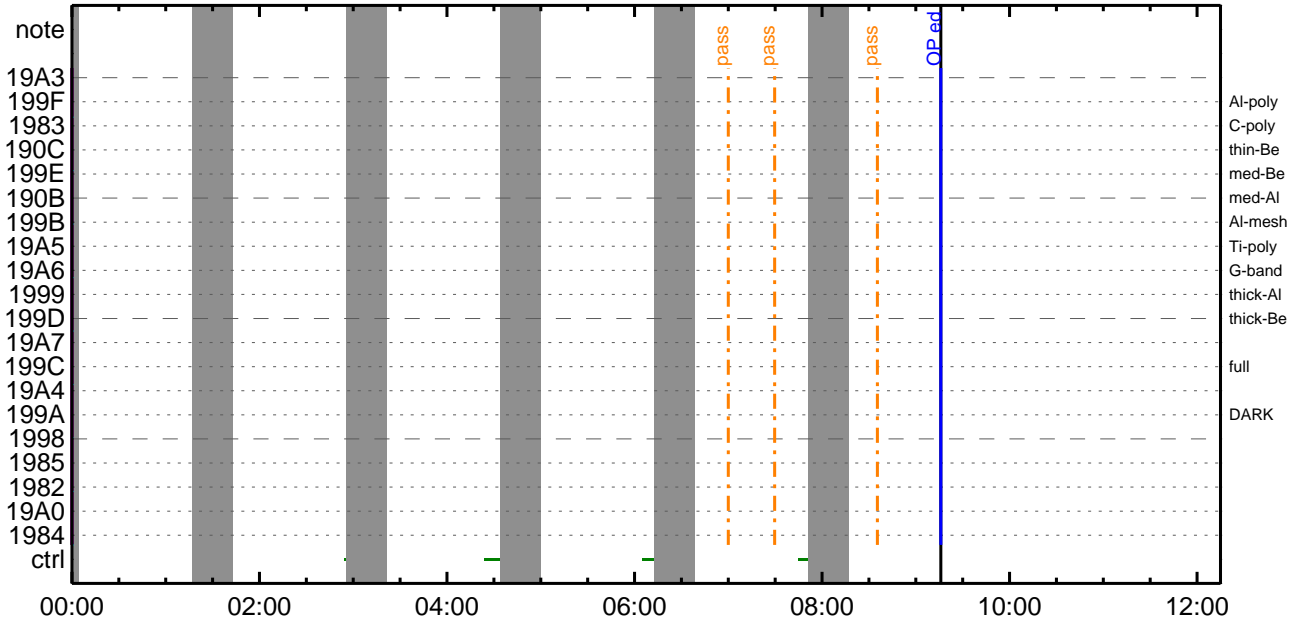
CMDI #0637 2013/08/05



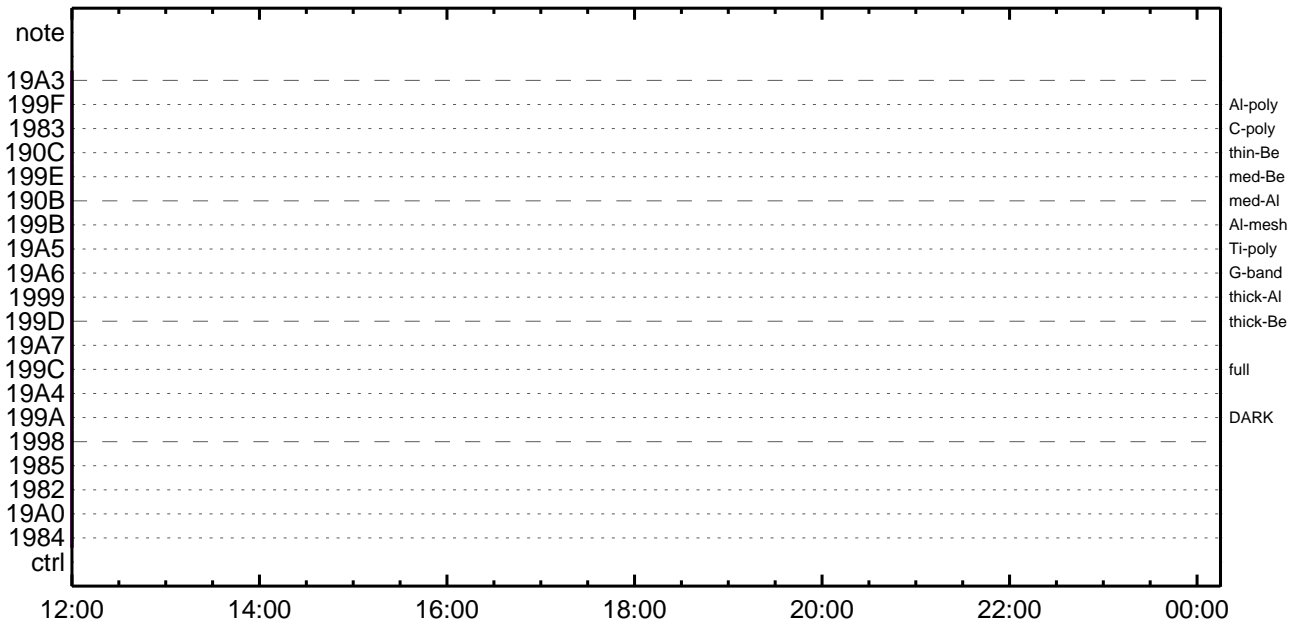
CMDI #0637 2013/08/05



CMDI #0637 2013/08/06



CMDI #0637 2013/08/06

















```
0096 + DC 07-F0 MDP_XRT_ROI_SET
0097 BC (cd 08 80 80 20 20)
0098 + DC 07-F0 MDP_XRT_ROI_SET
0099 BC (cd 09 40 c0 10 10)
0100 + DC 07-F0 MDP_XRT_ROI_SET
0101 BC (cd 0a 40 40 10 10)
0102 + DC 07-F0 MDP_XRT_ROI_SET
0103 BC (cd 0b c0 40 10 10)
0104 + DC 07-F0 MDP_XRT_ROI_SET
0105 BC (cd 0c 80 80 20 08)
0106 + DC 07-F0 MDP_XRT_ROI_SET
0107 BC (cd 0d 80 80 08 20)
0108 + DC 07-F0 MDP_XRT_ROI_SET
0109 BC (cd 0f 80 80 06 06)
0110 + DC 07-F0 MDP_XRT_ROI_SET
0111 BC (cd 10 80 80 08 08)
0112 + DC 07-F0 MDP_XRT_FLD_ENA
0113 BC (d8)
0114 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0115 BC (c8)
0116 + DC 07-F0 MDP_XRT_AEC_RESET
0117 BC (d0)
0118 + DC 07-F0 MDP_XRT_ARS_DIS
0119 BC (d5)
0120 + DC 07-F0 MDP_XRT_FLD_RESET
0121 BC (da)
0122 + DC 07-F0 MDP_XRT_QT_PROG_SET
0123 BC (c4 06)
0124 + DC 07-F0 MDP_XRT_FL_PROG_SET
0125 BC (c5 08)
0126 . C. ----- Success Verify ? OK / NG ____
0127 C.
0128 C.
0129 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0130 C.
0131 +. DC 07-F0 MDP_XRT_MODE_OBSV
0132 BC (c2)
0133 +. TI 2013-08-01 10:32:02.0
0134 DC 07-F0 MDP_XRT_MODE_OBSV
0135 BC (c2)
0136 . C. ----- Success Verify ? OK / NG ____
0137 C.
0138 C. ***** XRT END *****
0139 C.
0140 . C. ***** MDP 'uÃîâî»ö¼ýðËÄð¹ñèDCBC•x²è *****
0141 C. (%á°îÿÓÿÄÿËÿPÿËÿâÿçÿèðË¼ðð¼Ä»Û¹ñè)
0142 . S. DC-BC dcbc-402:DCBC
0143 (MDP_known_event)
0144 C.
0145 C.
0146 . C. ***** ÿÐÿ¹•ï Daily±¿îÑñË´Ø¹ñèDCBC•x²è *****
0147 . S. DC-BC dcbc-153:DCBC
0148 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0149 C.
0150 C.
0151 . C. ;ãLOSÿÁÿSÿËÿËÿ¼Ä»Û;ä
0152 C.
0153 . C. ***** LOS *****
0154 C.
```

Aug 01, 13 14:24

XRT\_OGLIST\_0637.chk

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

|            |            |   |   |       |    |    |    |    |       |
|------------|------------|---|---|-------|----|----|----|----|-------|
| 2013/08/01 | 10:43:00.0 | AOCS_ORe-point_Start_1_OG [0x097]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 04 | 00 | 00 | 00 | 00    |
| 2013/08/01 | 13:26:00.0 | AOCS_ORe-point_Start_2_OG [0x098]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | 4e | c0    |
| 2013/08/01 | 13:41:00.0 | AOCS_ORe-point_Start_3_OG [0x099]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | 3d | 0e    |
| 2013/08/01 | 13:56:00.0 | AOCS_ORe-point_Start_4_OG [0x09a]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | 2b | 64    |
| 2013/08/01 | 14:11:00.0 | AOCS_ORe-point_Start_5_OG [0x09b]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | 19 | b2    |
| 2013/08/01 | 15:25:30.0 | AOCS_ORe-point_Start_6_OG [0x09c]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | 08 | 00    |
| 2013/08/01 | 15:40:30.0 | AOCS_ORe-point_Start_7_OG [0x09d]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | f6 | 4e    |
| 2013/08/01 | 15:55:30.0 | AOCS_ORe-point_Start_8_OG [0x09e]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | e4 | 9c    |
| 2013/08/01 | 17:02:00.0 | AOCS_ORe-point_Start_9_OG [0x09f]       |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | d2 | f2    |
| 2013/08/01 | 17:17:00.0 | AOCS_ORe-point_Start_10_OG [0x0a0]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | c1 | 40    |
| 2013/08/01 | 17:32:00.0 | AOCS_ORe-point_Start_11_OG [0x0a1]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 03 | be | af | 8e    |
| 2013/08/01 | 18:39:00.0 | AOCS_ORe-point_Start_12_OG [0x0a2]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 15 | 99 | 51 | 26    |
| 2013/08/01 | 18:54:00.0 | AOCS_ORe-point_Start_13_OG [0x0a3]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 1e | 66 | 41 | 0e    |
| 2013/08/01 | 19:09:00.0 | AOCS_ORe-point_Start_14_OG [0x0a4]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 20 | 18 | 30 | 9b    |
| 2013/08/01 | 20:16:00.0 | AOCS_ORe-point_Start_15_OG [0x0a5]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 20 | fd | 20 | 00    |
| 2013/08/01 | 20:31:00.0 | AOCS_ORe-point_Start_16_OG [0x0a6]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 21 | 81 | 0f | 02    |
| 2013/08/01 | 20:46:00.0 | AOCS_ORe-point_Start_17_OG [0x0a7]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 21 | b2 | fd | b3    |
| 2013/08/01 | 21:52:30.0 | AOCS_ORe-point_Start_18_OG [0x0a8]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 21 | 81 | f2 | 67    |
| 2013/08/01 | 22:07:30.0 | AOCS_ORe-point_Start_19_OG [0x0a9]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 20 | fd | e1 | 69    |
| 2013/08/01 | 22:22:30.0 | AOCS_ORe-point_Start_20_OG [0x0aa]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 20 | 18 | d0 | cd    |
| 2013/08/01 | 23:23:30.0 | AOCS_ORe-point_Start_21_OG [0x0ab]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 1e | 66 | c0 | 5b    |
| 2013/08/01 | 23:38:30.0 | AOCS_ORe-point_Start_22_OG [0x0ac]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 15 | 99 | ae | da    |
| 2013/08/02 | 00:10:00.5 | AOCS_ORe-point_Start_23_OG [0x0ad]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 03 | 00 | 00 | 00 | 00    |
| 2013/08/02 | 10:37:00.0 | XRT_CTRL_MANU_400_OG [0x190]            |   |       |    |    |    |    |       |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 |    |    |    |    | c1    |
| 2013/08/02 | 10:37:02.0 | XRT_TCIB_XRT_S_HTR_A_DIS_437_OG [0x1b5] |   |       |    |    |    |    |       |
|            |            | TCIB_XRT_S_HTR_A_DIS                    | 0 | 04-C0 |    |    |    |    |       |
| 2013/08/02 | 16:27:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]            |   |       |    |    |    |    |       |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 |    |    |    |    | c1    |
| 2013/08/02 | 16:28:00.0 | AOCS_ORe-point_Start_24_OG [0x0ae]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 2e | f9 | 2e | f9    |
| 2013/08/02 | 16:30:32.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]       |   |       |    |    |    |    |       |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 | ff | aa |    | 00    |
| 2013/08/02 | 16:30:52.0 | XRT_QT_PROG_SET_449_OG [0x1c1]          |   |       |    |    |    |    |       |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 |    |    |    |    | c4 03 |
| 2013/08/02 | 16:30:54.0 | XRT_FLD_DIS_404_OG [0x194]              |   |       |    |    |    |    |       |
|            |            | MDP_XRT_FLD_DIS                         | 1 | 07-F0 |    |    |    |    | d9    |
| 2013/08/02 | 16:30:56.0 | XRT_FLRCTRL_DIS_405_OG [0x195]          |   |       |    |    |    |    |       |
|            |            | MDP_XRT_FLRCTRL_DIS                     | 1 | 07-F0 |    |    |    |    | c9    |
| 2013/08/02 | 16:30:58.0 | XRT_ARS_DIS_423_OG [0x1a7]              |   |       |    |    |    |    |       |
|            |            | MDP_XRT_ARS_DIS                         | 1 | 07-F0 |    |    |    |    | d5    |
| 2013/08/02 | 16:31:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |    |    |    |    |       |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 |    |    |    |    | c0    |
| 2013/08/02 | 16:33:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]            |   |       |    |    |    |    |       |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 |    |    |    |    | c1    |
| 2013/08/02 | 16:34:00.0 | AOCS_ORe-point_Start_25_OG [0x0af]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | 2e | f9 | d1 | 07    |
| 2013/08/02 | 16:36:32.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]       |   |       |    |    |    |    |       |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 | ff | aa |    | 00    |
| 2013/08/02 | 16:36:52.0 | XRT_QT_PROG_SET_447_OG [0x1bf]          |   |       |    |    |    |    |       |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 |    |    |    |    | c4 12 |
| 2013/08/02 | 16:36:54.0 | XRT_FLD_DIS_404_OG [0x194]              |   |       |    |    |    |    |       |
|            |            | MDP_XRT_FLD_DIS                         | 1 | 07-F0 |    |    |    |    | d9    |
| 2013/08/02 | 16:36:56.0 | XRT_FLRCTRL_DIS_405_OG [0x195]          |   |       |    |    |    |    |       |
|            |            | MDP_XRT_FLRCTRL_DIS                     | 1 | 07-F0 |    |    |    |    | c9    |
| 2013/08/02 | 16:36:58.0 | XRT_ARS_DIS_423_OG [0x1a7]              |   |       |    |    |    |    |       |
|            |            | MDP_XRT_ARS_DIS                         | 1 | 07-F0 |    |    |    |    | d5    |
| 2013/08/02 | 16:37:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |   |       |    |    |    |    |       |
|            |            | MDP_XRT_CTRL_AUTO                       | 1 | 07-F0 |    |    |    |    | c0    |
| 2013/08/02 | 16:39:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]            |   |       |    |    |    |    |       |
|            |            | MDP_XRT_CTRL_MANU                       | 1 | 07-F0 |    |    |    |    | c1    |
| 2013/08/02 | 16:40:00.0 | AOCS_ORe-point_Start_26_OG [0x0b0]      |   |       |    |    |    |    |       |
|            |            | AOCU_NM                                 | 5 | 02-76 | 00 | d1 | 07 | d1 | 07    |
| 2013/08/02 | 16:42:32.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]       |   |       |    |    |    |    |       |
|            |            | XRT_FOCUS_POSITION                      | 4 | 07-F8 | 22 | ff | aa |    | 00    |
| 2013/08/02 | 16:42:52.0 | XRT_QT_PROG_SET_426_OG [0x1aa]          |   |       |    |    |    |    |       |
|            |            | MDP_XRT_QT_PROG_SET                     | 2 | 07-F0 |    |    |    |    | c4 01 |
| 2013/08/02 | 16:42:54.0 | XRT_FLD_DIS_404_OG [0x194]              |   |       |    |    |    |    |       |

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|------------|------------|------------------------------------|---------------------|---|-------|----------------|--|--|--|--|
| 2013/08/02 | 16:42:56.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |  |  |  |
|            |            |                                    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |  |  |  |
| 2013/08/02 | 16:42:58.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/08/02 | 16:43:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/02 | 16:45:54.0 | XRT_CTRL_MANU_439_OG [0x1b7]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/02 | 16:46:00.0 | AOCS_ORe-point_Start_27_OG [0x0b1] | AOCU_NM             | 5 | 02-76 | 00 d1 07 2e f9 |  |  |  |  |
| 2013/08/02 | 16:48:32.0 | XRT_FOCUS_POSITION_442_OG [0x1ba]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2013/08/02 | 16:48:52.0 | XRT_QT_PROG_SET_414_OG [0x19e]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04          |  |  |  |  |
| 2013/08/02 | 16:48:54.0 | XRT_FLD_DIS_404_OG [0x194]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |  |  |  |
| 2013/08/02 | 16:48:56.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |  |  |  |
| 2013/08/02 | 16:48:58.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/08/02 | 16:49:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/02 | 16:51:54.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/02 | 16:51:56.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/02 | 16:51:58.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/02 | 16:52:00.0 | AOCS_ORe-point_Start_23_OG [0x0ad] | AOCU_NM             | 5 | 02-76 | 03 00 00 00 00 |  |  |  |  |
| 2013/08/02 | 16:55:08.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/02 | 17:35:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/02 | 17:35:26.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2013/08/02 | 17:35:46.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |  |
| 2013/08/02 | 17:35:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |  |
| 2013/08/02 | 17:35:50.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |  |  |
| 2013/08/02 | 17:35:52.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/08/02 | 17:35:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/02 | 17:35:56.0 | XRT_QT_PROG_SET_429_OG [0x1ad]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 09          |  |  |  |  |
| 2013/08/02 | 17:38:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08          |  |  |  |  |
| 2013/08/02 | 17:38:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/02 | 17:54:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/02 | 17:54:56.0 | XRT_FOCUS_POSITION_403_OG [0x193]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2013/08/02 | 17:55:00.0 | AOCS_ORe-point_Start_28_OG [0x0b2] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2013/08/02 | 17:55:16.0 | XRT_FLD_DIS_434_OG [0x1b2]         | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |  |  |  |  |
| 2013/08/02 | 17:57:54.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |  |  |  |  |
| 2013/08/02 | 17:57:56.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/08/02 | 17:57:58.0 | XRT_QT_PROG_SET_445_OG [0x1bd]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 10          |  |  |  |  |
| 2013/08/02 | 17:58:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/02 | 18:04:54.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/02 | 18:04:56.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |  |  |  |  |
| 2013/08/02 | 18:05:00.0 | AOCS_ORe-point_Start_23_OG [0x0ad] | AOCU_NM             | 5 | 02-76 | 03 00 00 00 00 |  |  |  |  |
| 2013/08/02 | 18:05:16.0 | XRT_FLD_ENA_411_OG [0x19b]         | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |  |  |  |  |
| 2013/08/02 | 18:05:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |  |  |  |  |
| 2013/08/02 | 18:05:20.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |  |  |  |  |
| 2013/08/02 | 18:05:22.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |  |  |  |  |
| 2013/08/02 | 18:05:24.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/02 | 18:05:26.0 | XRT_QT_PROG_SET_429_OG [0x1ad]     | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 09          |  |  |  |  |
| 2013/08/02 | 18:07:58.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08          |  |  |  |  |
| 2013/08/02 | 18:08:00.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/02 | 18:30:30.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |  |  |  |  |



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|------------|------------|------------------------------------|---|-------|----------------|--|--|--|--|
| 2013/08/02 | 18:30:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/02 | 18:30:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/02 | 18:33:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/02 | 19:14:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/08/02 | 19:15:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/02 | 20:09:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/02 | 20:09:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/02 | 20:09:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/02 | 20:12:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/02 | 20:51:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/08/02 | 20:52:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/02 | 21:47:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/02 | 21:47:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/02 | 21:47:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/02 | 21:50:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/02 | 22:27:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/08/02 | 22:28:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/02 | 23:26:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/02 | 23:26:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/02 | 23:26:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/02 | 23:29:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/02 | 23:53:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/08/02 | 23:54:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/03 | 01:04:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/03 | 01:04:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/03 | 01:04:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/03 | 01:07:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/03 | 01:31:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/08/03 | 01:32:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/03 | 02:42:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/03 | 02:42:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/03 | 02:42:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/03 | 02:45:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/03 | 03:09:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/08/03 | 03:10:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/03 | 04:11:00.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/03 | 04:11:02.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/03 | 04:11:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/03 | 04:14:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/03 | 04:48:00.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/08/03 | 04:49:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/03 | 05:51:30.0 | XRT_CTRL_MANU_400_OG [0x190]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/03 | 05:51:32.0 | XRT_FLD_RESET_415_OG [0x19f]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_FLD_RESET                  | 1 | 07-F0 | da             |  |  |  |  |
| 2013/08/03 | 05:51:34.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STRT                | 1 | 07-F0 | e8             |  |  |  |  |
| 2013/08/03 | 05:54:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     |   |       |                |  |  |  |  |
|            |            | MDP_XRT_PREFLR_STOP                | 1 | 07-F0 | e9             |  |  |  |  |
| 2013/08/03 | 06:26:30.0 | XRT_Custom_430_OG [0x1ae]          |   |       |                |  |  |  |  |
| 2013/08/03 | 06:27:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_AUTO                  | 1 | 07-F0 | c0             |  |  |  |  |
| 2013/08/03 | 06:29:24.0 | XRT_CTRL_MANU_402_OG [0x192]       |   |       |                |  |  |  |  |
|            |            | MDP_XRT_CTRL_MANU                  | 1 | 07-F0 | c1             |  |  |  |  |
| 2013/08/03 | 06:29:26.0 | XRT_FOCUS_POSITION_403_OG [0x193]  |   |       |                |  |  |  |  |
|            |            | XRT_FOCUS_POSITION                 | 4 | 07-F8 | 22 ff aa 00    |  |  |  |  |
| 2013/08/03 | 06:29:30.0 | AOCS_ORe-point_Start_28_OG [0x0b2] |   |       |                |  |  |  |  |
|            |            | AOCU_NM                            | 5 | 02-76 | 00 00 00 00 00 |  |  |  |  |
| 2013/08/03 | 06:29:46.0 | XRT_FLD_DIS_434_OG [0x1b2]         |   |       |                |  |  |  |  |

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|            |            |                                    |                           |   |       |                |
|------------|------------|------------------------------------|---------------------------|---|-------|----------------|
| 2013/08/03 | 06:32:24.0 | XRT_FLRCTRL_DIS_405_OG [0x195]     | MDP_XRT_FLD_DIS           | 1 | 07-F0 | d9             |
| 2013/08/03 | 06:32:26.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_FLRCTRL_DIS       | 1 | 07-F0 | c9             |
| 2013/08/03 | 06:32:28.0 | XRT_QT_PROG_SET_445_OG [0x1bd]     | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2013/08/03 | 06:32:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 10          |
| 2013/08/03 | 06:39:24.0 | XRT_CTRL_MANU_402_OG [0x192]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/08/03 | 06:39:26.0 | XRT_FOCUS_POSITION_410_OG [0x19a]  | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/08/03 | 06:39:30.0 | AOCS_ORe-point_Start_23_OG [0x0ad] | XRT_FOCUS_POSITION        | 4 | 07-F8 | 22 fe 97 00    |
| 2013/08/03 | 06:39:46.0 | XRT_FLD_ENA_411_OG [0x19b]         | AOCU_NM                   | 5 | 02-76 | 03 00 00 00 00 |
| 2013/08/03 | 06:39:48.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]     | MDP_XRT_FLD_ENA           | 1 | 07-F0 | d8             |
| 2013/08/03 | 06:39:50.0 | XRT_AEC_RESET_413_OG [0x19d]       | MDP_XRT_FLRCTRL_ENA       | 1 | 07-F0 | c8             |
| 2013/08/03 | 06:39:52.0 | XRT_ARS_DIS_423_OG [0x1a7]         | MDP_XRT_AEC_RESET         | 1 | 07-F0 | d0             |
| 2013/08/03 | 06:39:54.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_ARS_DIS           | 1 | 07-F0 | d5             |
| 2013/08/03 | 06:39:56.0 | XRT_QT_PROG_SET_429_OG [0x1ad]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/08/03 | 06:42:28.0 | XRT_FL_PROG_SET_431_OG [0x1af]     | MDP_XRT_QT_PROG_SET       | 2 | 07-F0 | c4 09          |
| 2013/08/03 | 06:42:30.0 | XRT_CTRL_AUTO_408_OG [0x198]       | MDP_XRT_FL_PROG_SET       | 2 | 07-F0 | c5 08          |
| 2013/08/03 | 07:32:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/08/03 | 07:32:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/08/03 | 07:32:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/08/03 | 07:35:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2013/08/03 | 08:05:00.0 | XRT_Custom_430_OG [0x1ae]          | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
| 2013/08/03 | 08:06:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]       | XRT_Custom_430_OG [0x1ae] |   |       |                |
| 2013/08/03 | 08:36:00.0 | XRT_CTRL_MANU_400_OG [0x190]       | MDP_XRT_CTRL_AUTO         | 1 | 07-F0 | c0             |
| 2013/08/03 | 08:36:02.0 | XRT_FLD_RESET_415_OG [0x19f]       | MDP_XRT_CTRL_MANU         | 1 | 07-F0 | c1             |
| 2013/08/03 | 08:36:04.0 | XRT_PREFLR_STRT_418_OG [0x1a2]     | MDP_XRT_FLD_RESET         | 1 | 07-F0 | da             |
| 2013/08/03 | 08:39:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]     | MDP_XRT_PREFLR_STRT       | 1 | 07-F0 | e8             |
| 2013/08/03 | 09:14:00.0 | AOCS_ORe-point_Start_28_OG [0x0b2] | MDP_XRT_PREFLR_STOP       | 1 | 07-F0 | e9             |
|            |            | AOCU_NM                            |                           | 5 | 02-76 | 00 00 00 00 00 |