

XRT Timeline to be uploaded on 2011/07/02

Period: 2011/07/02 11:07:00 - 2011/07/07 10:56:00

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Normal mode

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XOB #1891: HOP 186 (short exp) FW1=OPEN Al/mesh (64/2048ms) + Synoptic Q95 2x2 - Al/mesh(16/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048)

| Term | Pointing (x, y) | Comment |
|---------------------------------|-------------------------|---|
| 07/02 11:20:00 - 07/02 12:26:00 | Fixed (0.0, 0.0) | # OP start + 10min, synoptic shifted manually, with HOP 186, prominence mass loading. |
| 07/02 12:57:00 - 07/02 14:04:30 | Fixed (-279.7, 0.0) | |
| 07/02 14:42:30 - 07/02 15:43:00 | Fixed (317.6, 0.0) | |
| 07/02 16:31:00 - 07/02 17:21:30 | Fixed (-911.0, -243.8) | |
| 07/02 18:07:30 - 07/02 19:00:00 | Fixed (-544.3, -282.2) | |
| 07/02 19:44:30 - 07/02 20:38:30 | Fixed (28.2, -291.6) | |
| 07/02 21:21:30 - 07/02 21:51:54 | Fixed (544.3, -282.2) | |
| 07/03 10:20:00 - 07/03 10:26:54 | Fixed (0.0, 0.0) | * Synoptic, shifted manually, with HOP 186. |
| 07/04 10:03:00 - 07/04 10:09:54 | Fixed (0.0, 0.0) | * Synoptic, shifted manually, with HOP 186. |

PROG= 17 1-time(s)

| Subr= 1 1-time(s) 12.0sec | Seqn= 7 1-time(s) 4.0sec | Seqn= 5 1-time(s) 2.0sec | Seqn= 8 1-time(s) 4.0sec | Seqn= 4 1-time(s) 2.0sec | Subr= 2 1-time(s) 2.0sec | Seqn= 72 1-time(s) 2.0sec | | | | |
|--|--|--|--|--|--|--|--------------------|-------|------------|----------|
| Open/Al-mesh close Safe Norm 16ms | Open/Al-mesh close Safe Norm 1.00s | Open/Ti-poly close Safe Dark 500ms | Open/Ti-poly close Safe Norm 32ms | Open/G-band open Safe Norm 16ms | Open/Al-mesh close Safe Norm 63ms | Open/Al-mesh close Safe Norm 2.00s | | | | |
| Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | | | | |
| Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec | Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec | Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 1x1 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | | | | |
| Obs 500ms 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 500ms 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 500ms 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 2.00s 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2.00s 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 2.00s 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 2.00s 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | | | | |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD Bin | ROI: size (center) | Comp. | AEC Buffer | Interval |

XOB #16AC: G-Band Alignment with North Pole Q90 2x2(G-band only) - 5min cadence - Partial Sun-wNGT

| Term | Pointing (x, y) | Comment |
|---------------------------------|---------------------|---------------------------------|
| 07/02 21:55:00 - 07/03 00:24:54 | Fixed (0.0, 945.0) | * Alignment offset pointing, N. |

PROG= 14 1-time(s)

| Subr= 1 1-time(s) 360.0sec | Seqn= 21 24-time(s) 300.0sec |
|---|---|
| Open/G-band open Safe Norm 16ms | Open/G-band open Safe Norm 16ms |
| Obs 2x2 2048x1536 (1024, 768) Q=90 0 0 2.0sec | Obs 2x2 2048x1536 (1024, 768) Q=90 0 0 2.0sec |
| Default Filter | Thicker Filter |
| VLS | mode |
| image | Exp. |
| CCD | Bin |
| ROI: size (center) | Comp. |
| AEC Buffer | Interval |

XOB #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 |
|---------------------------------|-------------------|-----------------------------|
| 07/03 00:28:00 - 07/03 00:34:54 | Fixed (0.0, 0.0) | synoptic, shifted manually. |
| 07/04 00:03:00 - 07/04 00:09:54 | Fixed (0.0, 0.0) | synoptic, shifted manually. |
| 07/05 00:03:00 - 07/05 00:09:54 | Fixed (0.0, 0.0) | synoptic, shifted manually. |

PROG= 19 1-time(s)

| Subr= 1 1-time(s) 12.0sec | Seqn= 7 1-time(s) 4.0sec | Seqn= 5 1-time(s) 2.0sec | Seqn= 8 1-time(s) 4.0sec | Seqn= 4 1-time(s) 2.0sec |
|--|--|--|--|--|
| Open/Al-mesh close Safe Norm 16ms | Open/Al-mesh close Safe Norm 1.00s | Open/Ti-poly close Safe Dark 500ms | Open/Ti-poly close Safe Norm 32ms | Open/G-band open Safe Norm 16ms |
| Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec |
| Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec | Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec | Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec | Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 1x1 2048x2048 (1024, 1024) DPCM 0 0 2.0sec |
| Obs 500ms 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 500ms 2048x2048 (1024, 1024) DPCM 0 0 2.0sec | Obs 2.00s 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2.00s 2048x2048 (1024, 1024) Q=95 0 0 2.0sec | Obs 2.00s 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 #16AD: G-Band Alignment with East limb Q90 2x2 (G-band only) - 8 min cadence-wNGT

| Term | Pointing (x, y) | Comment |
|---------------------------------|----------------------|---------------------------------|
| 07/03 00:38:00 - 07/03 02:34:54 | Fixed (-945.0, 0.0) | * Alignment offset pointing, E. |

PROG= 06 1-time(s)

| Subr= 1 1-time(s) 360.0sec |
|----------------------------|
|----------------------------|

| | | | | | | | | | | | | | | | | | | | | |
|----------------|----------------|----------|------|-------|------|-----|-----|------------------------|-------|------------|----------|--------|--|--|--|--|--|--|--|--|
| Seqn= 22 | 15-time(s) | 480.0sec | | | | | | | | | | | | | | | | | | |
| Open/G-band | Open/G-band | open | Safe | Norm | 16ms | Obs | 2x2 | 1536x2048 (1280, 1024) | Q=90 | 0 | 0 | 2.0sec | | | | | | | | |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | | | | | | | | | |

| XOB #187D: AR Standard-A(Filter-Ratio) with eruption PFB, FW1=Open, 384x384 at 1064 1048, 100s cad | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|
| Term | | Pointing (x, y) | | | | | | | | | | Comment | | | | | | | | | |
| 07/03 02:38:00 - 07/03 09:42:00 | | Track (-136.0, 180.7) @ 07/03 02:35:00 | | | | | | | | | | * AR 11243. | | | | | | | | | |
| 07/04 00:13:00 - 07/04 09:59:54 | | Track (54.1, 178.6) @ 07/04 00:10:00 | | | | | | | | | | # Cont. | | | | | | | | | |
| 07/04 19:43:00 - 07/04 23:31:00 | | Track (224.0, 178.7) @ 07/04 19:40:00 | | | | | | | | | | * AR11243. | | | | | | | | | |
| 07/05 00:17:00 - 07/05 09:17:00 | | Track (262.3, 178.9) @ 07/05 00:10:00 | | | | | | | | | | # AR 11243. | | | | | | | | | |

| PROG= 04 Inf.-time(s) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|----------------|---------------------|------|-------|------|-----|-----|--------------------|-------|------------|----------|---|--|--|--|--|--|--|--|--|--|
| Subr= 1 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Seqn= 19 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| 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 63ms Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec | | | | | | | | | |
| Seqn=100 | | 4-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| 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 | | | | | | | | | |
| Subr= 2 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Seqn= 6 | | 18-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| 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 20.0sec | | | | | | | | | |
| Open/Al-mesh | | Open/Ti-poly close | | | | | | | | | | Safe Norm 500ms Obs 2x2 512x512 (1064, 1048) Q=95 2 1 2.0sec | | | | | | | | | |
| Open/Ti-poly | | Open/thick-Be close | | | | | | | | | | Safe Norm 1.00s Obs 1x1 512x512 (1064, 1048) Q=95 2 1 20.0sec | | | | | | | | | |
| Open/Al-mesh | | Open/Ti-poly close | | | | | | | | | | Safe Norm 500ms Obs 2x2 512x512 (1064, 1048) Q=95 2 2 2.0sec | | | | | | | | | |
| Open/Ti-poly | | Open/thick-Be close | | | | | | | | | | Safe Norm 1.00s Obs 1x1 512x512 (1064, 1048) Q=95 2 2 20.0sec | | | | | | | | | |
| Open/Al-mesh | | Open/thick-Al close | | | | | | | | | | Safe Norm 500ms Obs 1x1 512x512 (1064, 1048) Q=95 3 3 2.0sec | | | | | | | | | |
| Open/Ti-poly | | Open/thick-Be close | | | | | | | | | | Safe Norm 1.00s Obs 1x1 512x512 (1064, 1048) Q=95 3 3 20.0sec | | | | | | | | | |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | | | | | | | | | | |

| XOB #174E: HOP81 2-filter - Ti/poly 8s, Al/mesh 4s, G-band - 384x384 | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------------|--|--|--|--|--|--|--|--|--|-------------------------------------|--|--|--|--|--|--|--|--|--|
| Term | | Pointing (x, y) | | | | | | | | | | Comment | | | | | | | | | |
| 07/03 10:30:00 - 07/03 16:20:00 | | Fixed (-4.0, 859.0) | | | | | | | | | | * HOP 81, polar monitoring, N pole. | | | | | | | | | |
| 07/04 10:13:00 - 07/04 15:19:00 | | Fixed (-4.0, -941.0) | | | | | | | | | | * HOP 81, polar monitoring, S pole. | | | | | | | | | |

| PROG= 13 Inf.-time(s) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|----------------|--------------------|------|-------|------|-----|-----|--------------------|-------|------------|----------|--|--|--|--|--|--|--|--|--|--|
| Subr= 1 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Seqn= 51 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Open/G-band | | Open/G-band open | | | | | | | | | | Safe Norm 63ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec | | | | | | | | | |
| Subr= 2 | | 30-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Seqn= 58 | | 2-time(s) | | | | | | | | | | 30.0sec | | | | | | | | | |
| Open/Al-mesh | | Open/Al-mesh close | | | | | | | | | | Safe Norm 4.00s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec | | | | | | | | | |
| Open/Ti-poly | | Open/Ti-poly close | | | | | | | | | | Safe Norm 8.00s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec | | | | | | | | | |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | | | | | | | | | | |

| XOB #1886: AR Standard-A(Filter-Ratio) with eruption PFB, FW1=Open, 512x512 at 1064 1048, 100s cad | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| Term | | Pointing (x, y) | | | | | | | | | | Comment | | | | | | | | | |
| 07/03 17:07:30 - 07/03 23:59:54 | | Track (-11.5, 179.1) @ 07/03 16:44:00 | | | | | | | | | | AR 11243, including EIS scans during central meridian crossing. | | | | | | | | | |

| PROG= 12 Inf.-time(s) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|----------------|---------------------|------|-------|------|-----|-----|--------------------|-------|------------|----------|---|--|--|--|--|--|--|--|--|--|
| Subr= 1 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Seqn= 19 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| 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 63ms Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec | | | | | | | | | |
| Seqn= 49 | | 4-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Open/Ti-poly | | Open/thick-Al close | | | | | | | | | | Safe Norm 500ms Obs 1x1 512x512 (1064, 1048) Q=95 3 0 2.0sec | | | | | | | | | |
| Open/thick-Al | | Open/thick-Be close | | | | | | | | | | Safe Norm 16.0s Obs 1x1 512x512 (1064, 1048) Q=95 3 0 2.0sec | | | | | | | | | |
| Subr= 2 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Seqn= 6 | | 18-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| 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 20.0sec | | | | | | | | | |
| Open/Al-mesh | | Open/Ti-poly close | | | | | | | | | | Safe Norm 500ms Obs 2x2 512x512 (1064, 1048) Q=95 2 1 2.0sec | | | | | | | | | |
| Open/Ti-poly | | Open/thick-Be close | | | | | | | | | | Safe Norm 1.00s Obs 1x1 512x512 (1064, 1048) Q=95 2 1 20.0sec | | | | | | | | | |
| Open/Al-mesh | | Open/Ti-poly close | | | | | | | | | | Safe Norm 500ms Obs 2x2 512x512 (1064, 1048) Q=95 2 2 2.0sec | | | | | | | | | |
| Open/Ti-poly | | Open/thick-Be close | | | | | | | | | | Safe Norm 1.00s Obs 1x1 512x512 (1064, 1048) Q=95 2 2 20.0sec | | | | | | | | | |
| Open/Al-mesh | | Open/thick-Al close | | | | | | | | | | Safe Norm 500ms Obs 1x1 512x512 (1064, 1048) Q=95 3 3 2.0sec | | | | | | | | | |
| Open/Ti-poly | | Open/thick-Be close | | | | | | | | | | Safe Norm 1.00s Obs 1x1 512x512 (1064, 1048) Q=95 3 3 20.0sec | | | | | | | | | |
| Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | | | | | | | | | | |

| XOB #1880: AR Standard-B(Morphology) with eruption PFB, FW1=Open, Ti/Poly, 384x384 at 1064 1048, 22sec-cad | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Term | | Pointing (x, y) | | | | | | | | | | Comment | | | | | | | | | |
| 07/04 16:07:00 - 07/04 18:35:30 | | Track (190.0, 178.5) @ 07/04 15:43:00 | | | | | | | | | | * HOP 193, joint with SUMER, disk AR target. | | | | | | | | | |

| PROG= 01 Inf.-time(s) | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Subr= 2 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| Seqn= 19 | | 1-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |
| 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 63ms Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec | | | | | | | | | |
| Seqn= 41 | | 4-time(s) | | | | | | | | | | 2.0sec | | | | | | | | | |

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|----------------|------------------|-------------------|----------------|------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| | 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 |
| | Open/thick-Al | Open/thick-Be | close | Safe | Norm | 1.00s | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| Subr= 1 | 1-time(s) | 2.0sec | | | | | | | | | | | |
| | Seqn= 13 | 55-time(s) | 22.0sec | | | | | | | | | | |
| | Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 384x384 (1064, 1048) | Q=95 | 3 | 0 | 2.0sec |
| | Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 2x2 | 512x512 (1064, 1048) | Q=95 | 2 | 1 | 2.0sec |
| | Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 2x2 | 512x512 (1064, 1048) | Q=95 | 2 | 2 | 2.0sec |
| | Open/Ti-poly | Open/thick-Al | close | Safe | Norm | 500ms | Obs | 1x1 | 512x512 (1064, 1048) | Q=95 | 3 | 3 | 2.0sec |
| | Default Filter | Thicker Filter | VLS | mode | image | Exp. | CCD | Bin | ROI: size (center) | Comp. | AEC Buffer | Interval | |

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Flare mode

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| XOB #1828: Flare Standard Obs. with eruptions mode-A (FW1=Open) | | | | | | | | | | | | | |
|--|---|------------------|---------------|------|-------|-------|-----|-----|---|-------|------------|----------|--------|
| Term | Pointing (x, y) | | | | | | | | Comment | | | | |
| 07/03 02:38:00 - 07/03 09:42:00 | Track (-136.0, 180.7) @ 07/03 02:35:00 | | | | | | | | * AR 11243. | | | | |
| 07/03 10:30:00 - 07/03 16:20:00 | Fixed (-4.0, 859.0) | | | | | | | | * HOP 81, polar monitoring, N pole. | | | | |
| 07/03 17:07:30 - 07/03 23:59:54 | Track (-11.5, 179.1) @ 07/03 16:44:00 | | | | | | | | AR 11243, including EIS scans during central meridian crossing. | | | | |
| 07/04 00:13:00 - 07/04 09:59:54 | Track (54.1, 178.6) @ 07/04 00:10:00 | | | | | | | | # Cont. | | | | |
| 07/04 10:13:00 - 07/04 15:19:00 | Fixed (-4.0, -941.0) | | | | | | | | * HOP 81, polar monitoring, S pole. | | | | |
| 07/04 16:07:00 - 07/04 18:35:30 | Track (190.0, 178.5) @ 07/04 15:43:00 | | | | | | | | * HOP 193, joint with SUMER, disk AR target. | | | | |
| 07/04 19:43:00 - 07/04 23:31:00 | Track (224.0, 178.7) @ 07/04 19:40:00 | | | | | | | | * AR11243. | | | | |
| 07/05 00:17:00 - 07/05 09:17:00 | Track (262.3, 178.9) @ 07/05 00:10:00 | | | | | | | | # AR 11243. | | | | |
| PROG= 08 | 1-time(s) | | | | | | | | | | | | |
| Subr= 1 | 30-time(s) | 20.0sec | | | | | | | | | | | |
| | Seqn= 87 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | 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 |
| | Seqn= 60 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | 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 |
| Subr= 2 | 1-time(s) | 2.0sec | | | | | | | | | | | |
| | Seqn= 90 | 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/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| | Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Subr= 3 | 30-time(s) | 60.0sec | | | | | | | | | | | |
| | Seqn= 87 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | 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 |
| | Seqn= 88 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | 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 |
| Subr= 2 | 1-time(s) | 2.0sec | | | | | | | | | | | |
| | Seqn= 90 | 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/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| | Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Subr= 3 | 30-time(s) | 60.0sec | | | | | | | | | | | |
| | Seqn= 87 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | 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 |
| | Seqn= 88 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | 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 |
| Subr= 2 | 1-time(s) | 2.0sec | | | | | | | | | | | |
| | Seqn= 90 | 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/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 1x1 | 384x384 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| | Open/thick-Al | Open/thick-Al | close | Safe | Dark | 1.00s | Obs | 2x2 | 512x512 (1024, 1024) | Q=98 | 0 | 0 | 2.0sec |
| Subr= 3 | 30-time(s) | 60.0sec | | | | | | | | | | | |
| | Seqn= 87 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | 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 |
| | Seqn= 88 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | 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 |
| Subr= 4 | 24-time(s) | 600.0sec | | | | | | | | | | | |
| | Seqn= 89 | 1-time(s) | 2.0sec | | | | | | | | | | |
| | Open/Al-mesh | Open/thick-Al | 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/Al-mesh | Open/Al-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

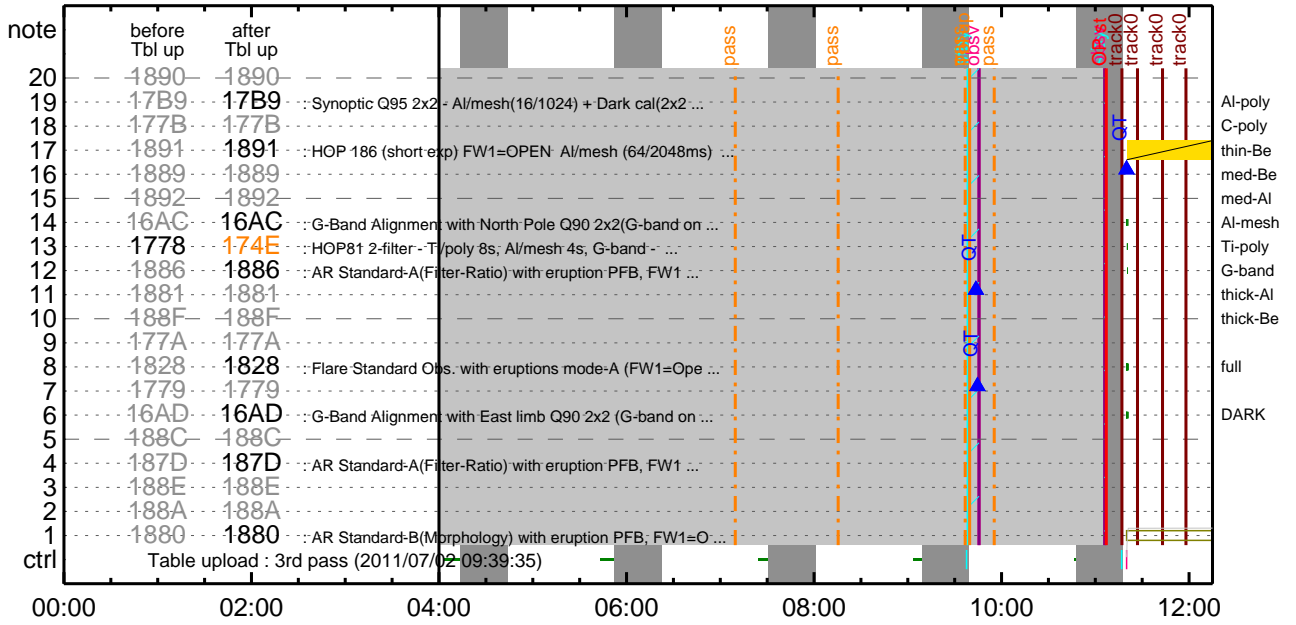
* * * * *

Flare Detection

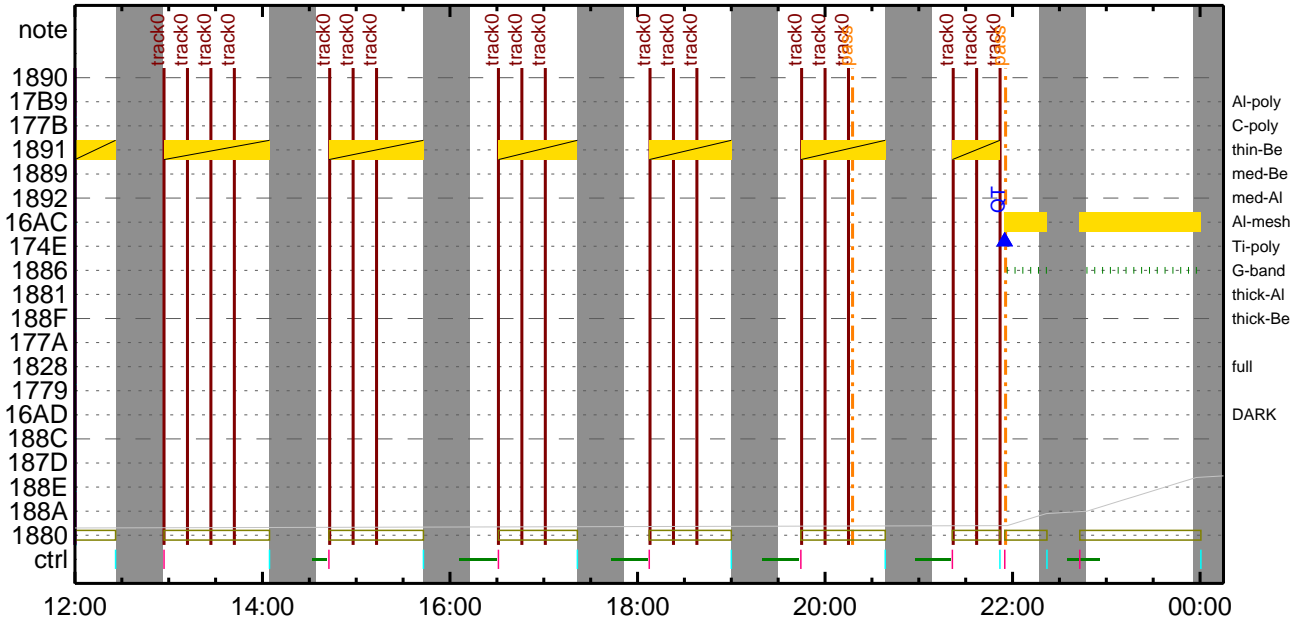
* * * * *

| FLD Patrol | | | | | | | | | | | | |
|---------------------------------|----------------|--|------|-------|------|-----|-----|-------------------------------------|-------|------------|----------|--|
| Term | | Pointing (x, y) | | | | | | Comment | | | | |
| 07/03 02:37:46 - 07/03 10:17:16 | | Track (-136.0, 180.7) ^{@ 07/03 02:35:00} | | | | | | * AR 11243. | | | | |
| 07/03 10:29:46 - 07/04 00:00:16 | | Fixed (-4.0, 859.0) | | | | | | * HOP 81, polar monitoring, N pole. | | | | |
| 07/04 00:12:46 - 07/04 10:00:16 | | Track (54.1, 178.6) ^{@ 07/04 00:10:00} | | | | | | # Cont. | | | | |
| 07/04 10:12:46 - 07/05 00:00:16 | | Fixed (-4.0, -941.0) | | | | | | * HOP 81, polar monitoring, S pole. | | | | |
| 07/05 00:16:46 - 07/07 10:56:00 | | Track (262.3, 178.9) ^{@ 07/05 00:10:00} | | | | | | # AR 11243. | | | | |
| 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 | |

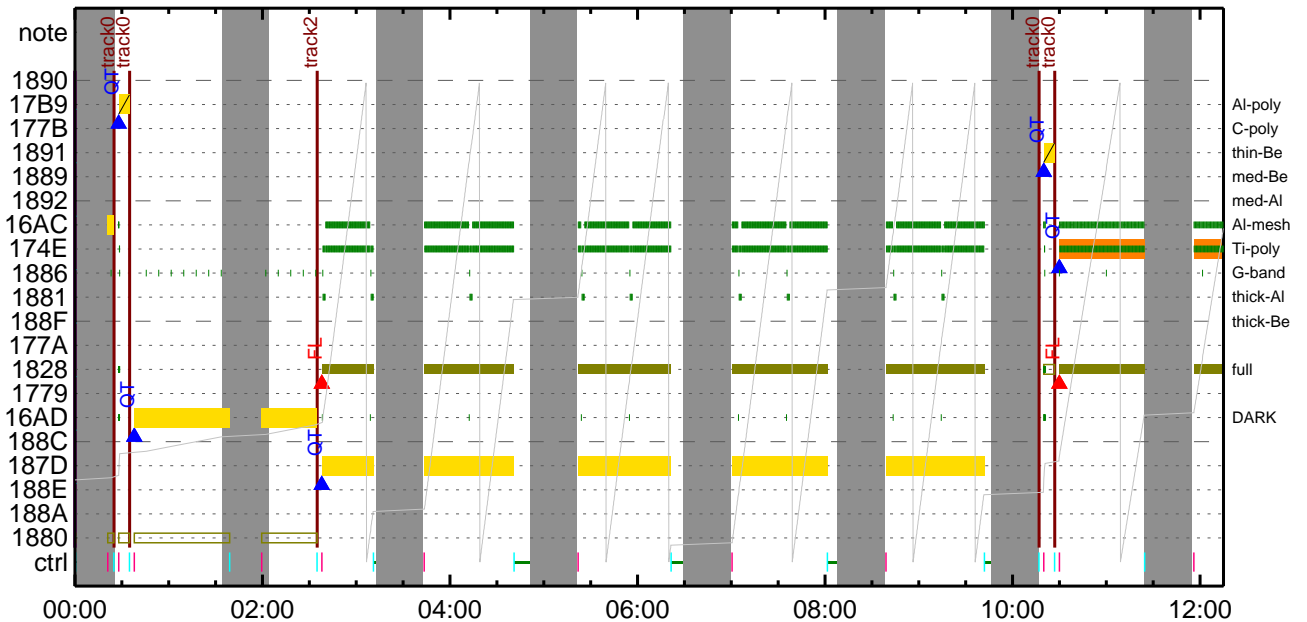
CMDI #0012 2011/07/02



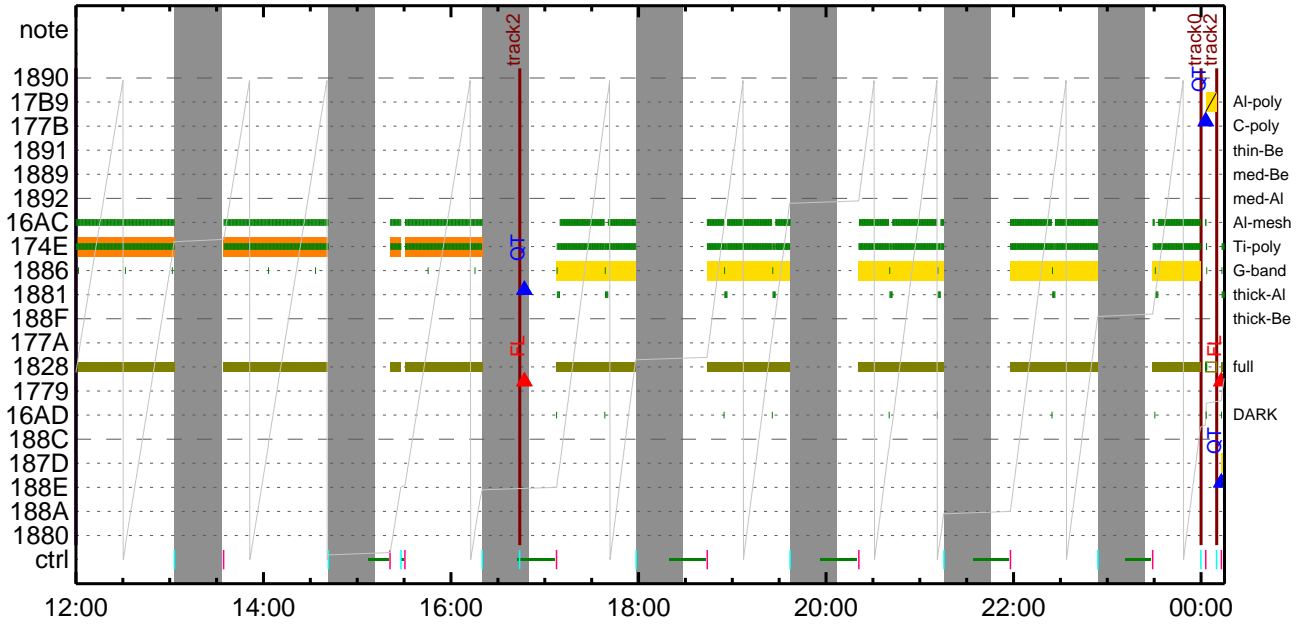
CMDI #0012 2011/07/02



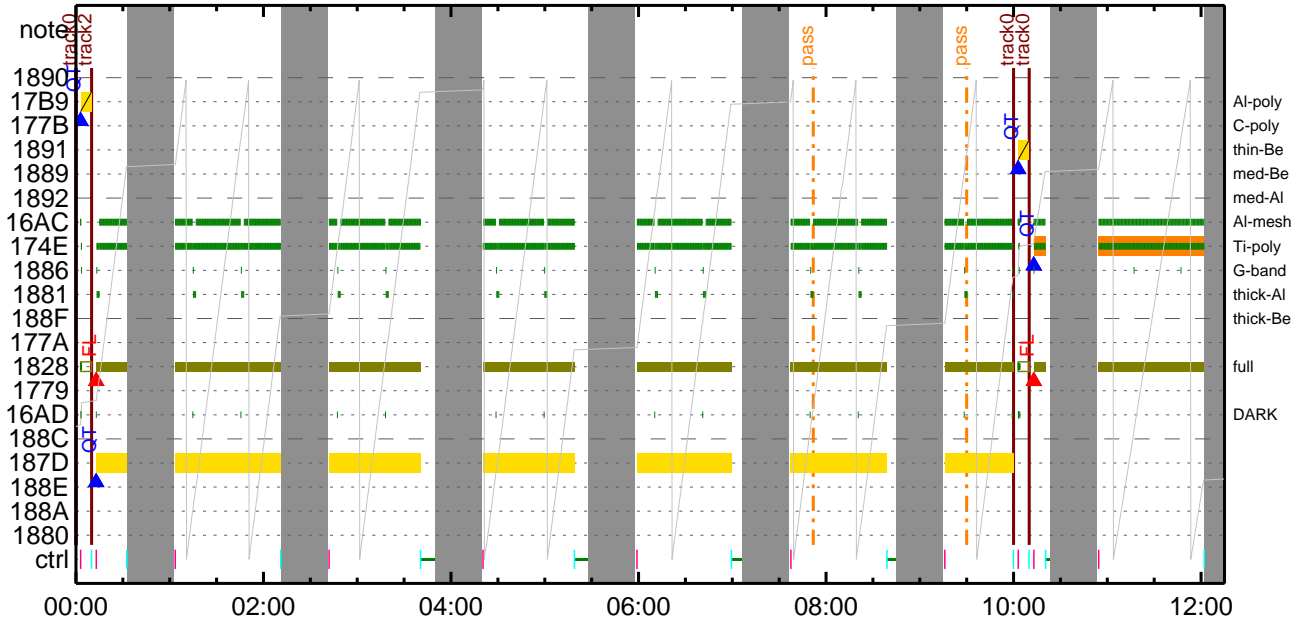
CMDI #0012 2011/07/03



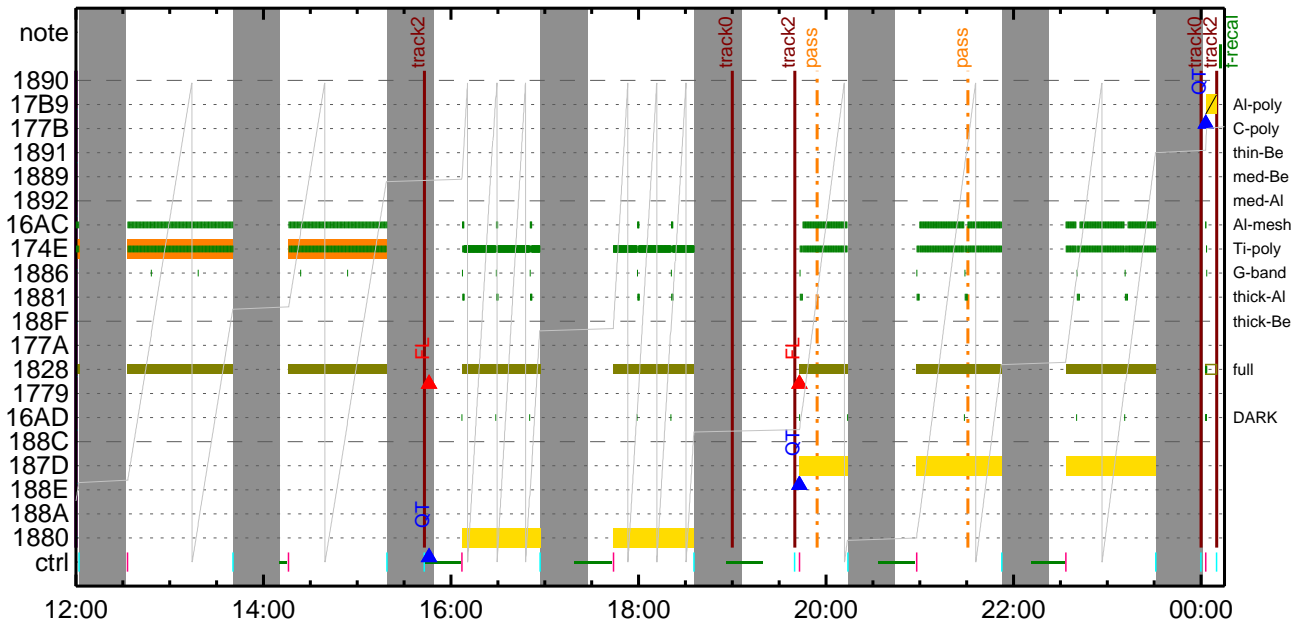
CMDI #0012 2011/07/03



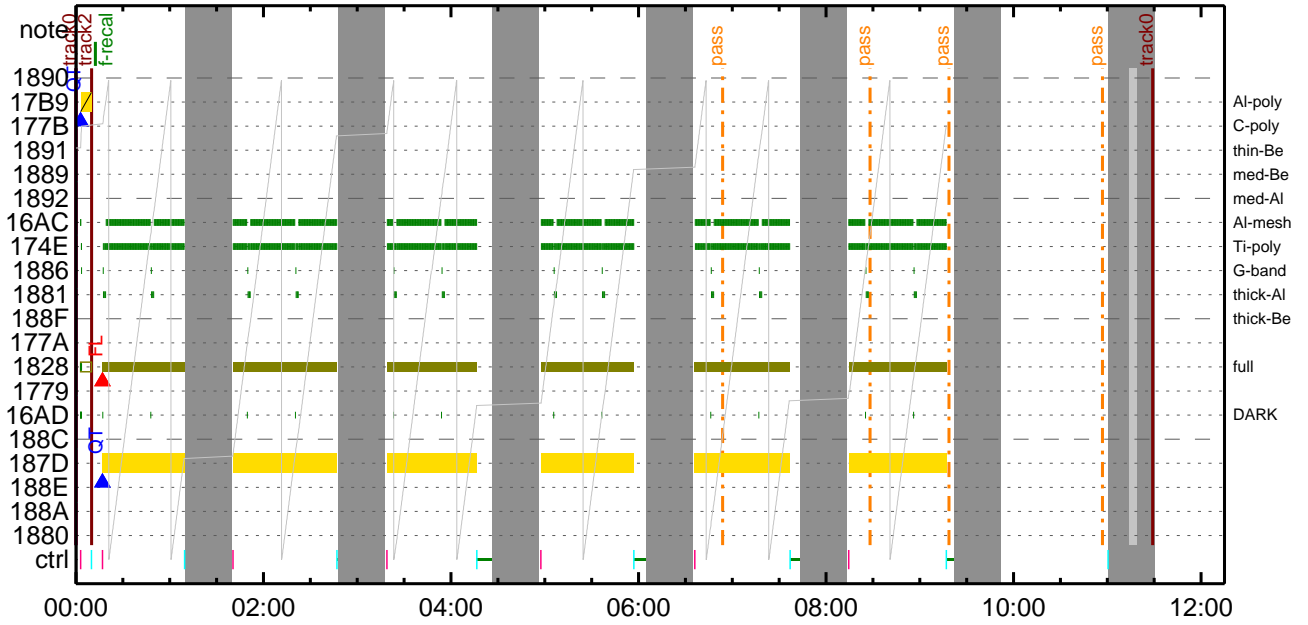
CMDI #0012 2011/07/04



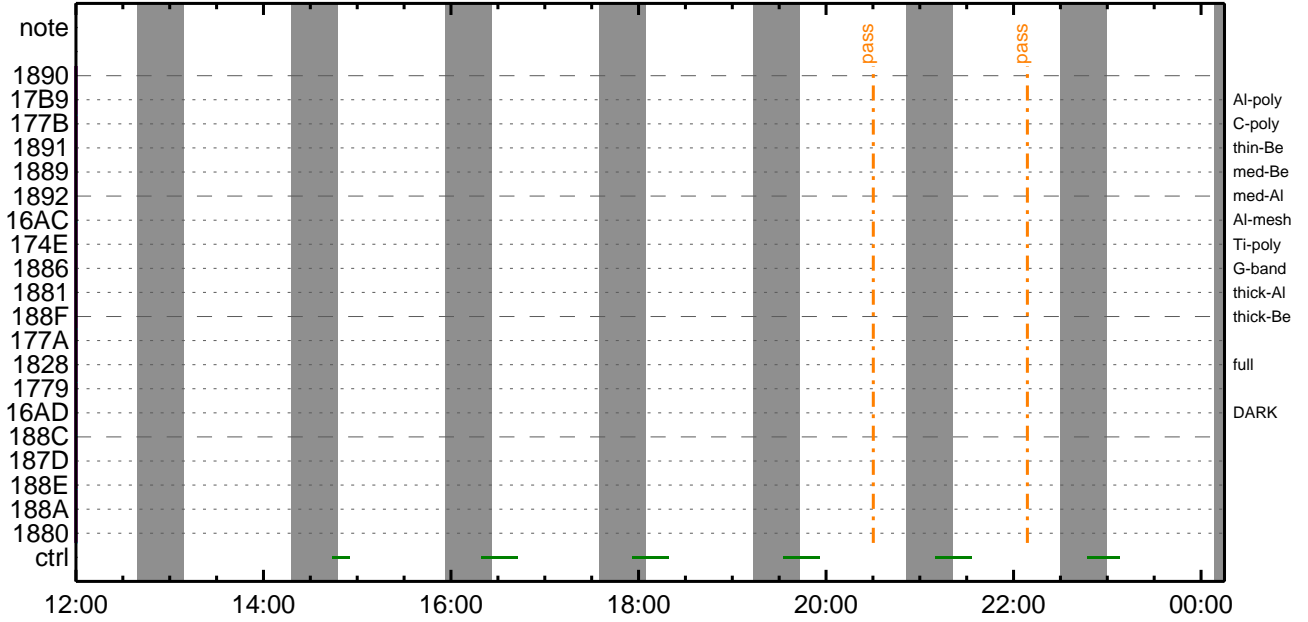
CMDI #0012 2011/07/04



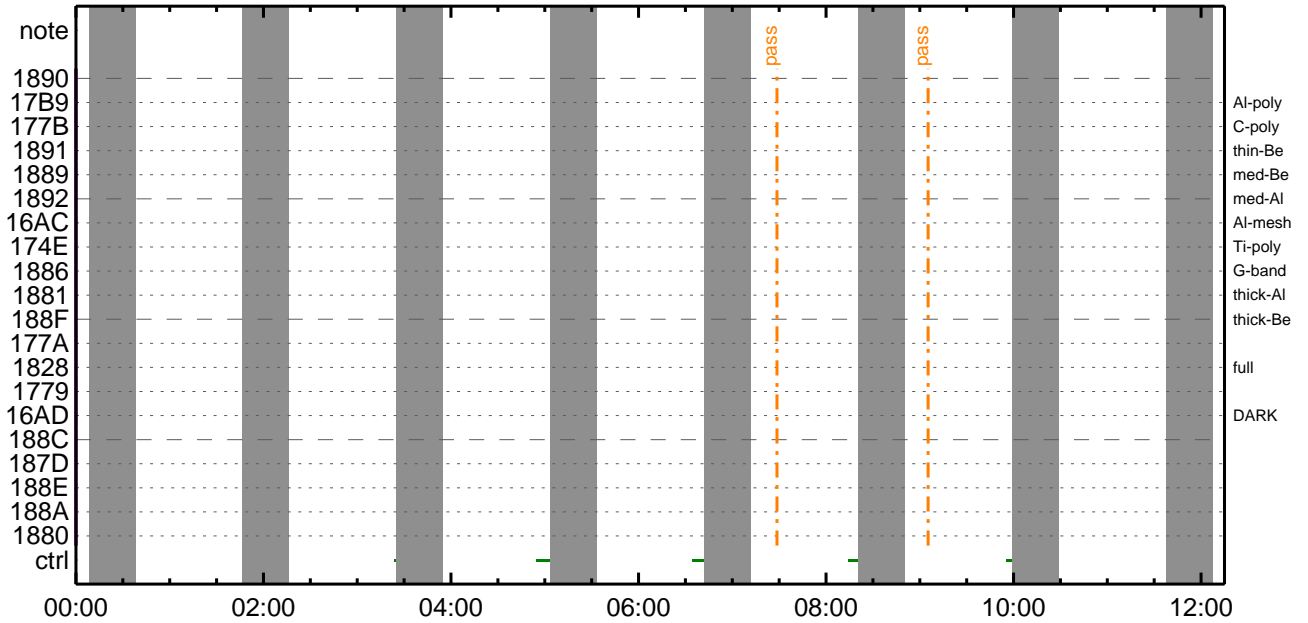
CMDI #0012 2011/07/05



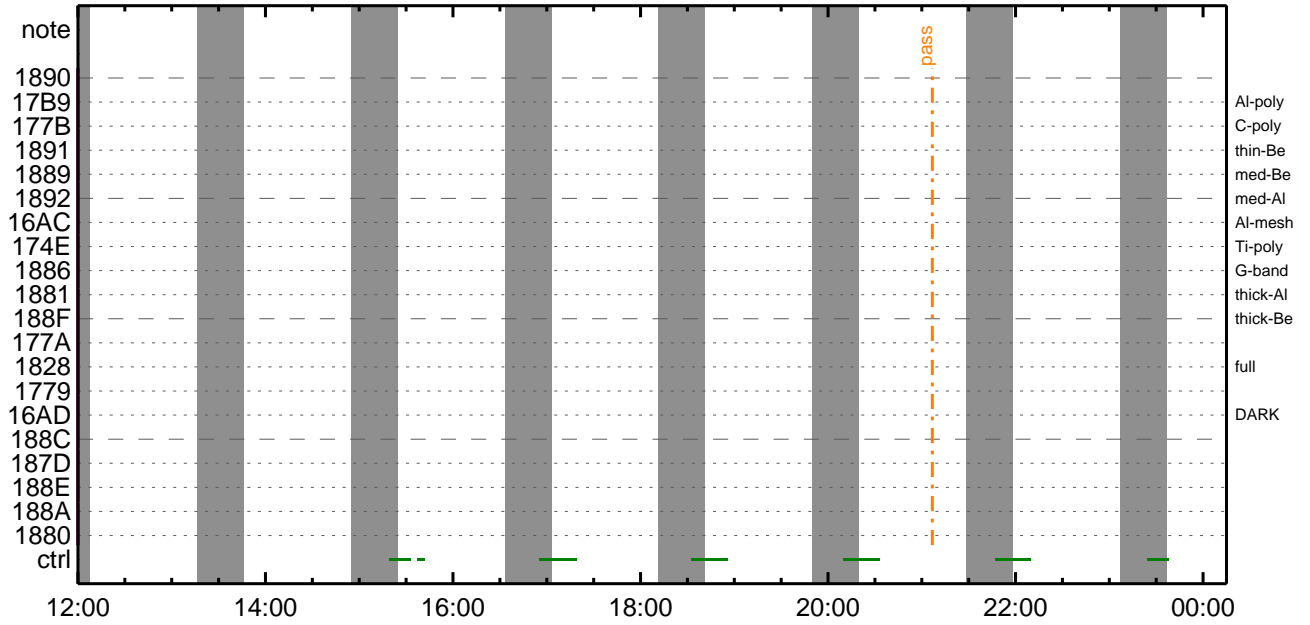
CMDI #0012 2011/07/05



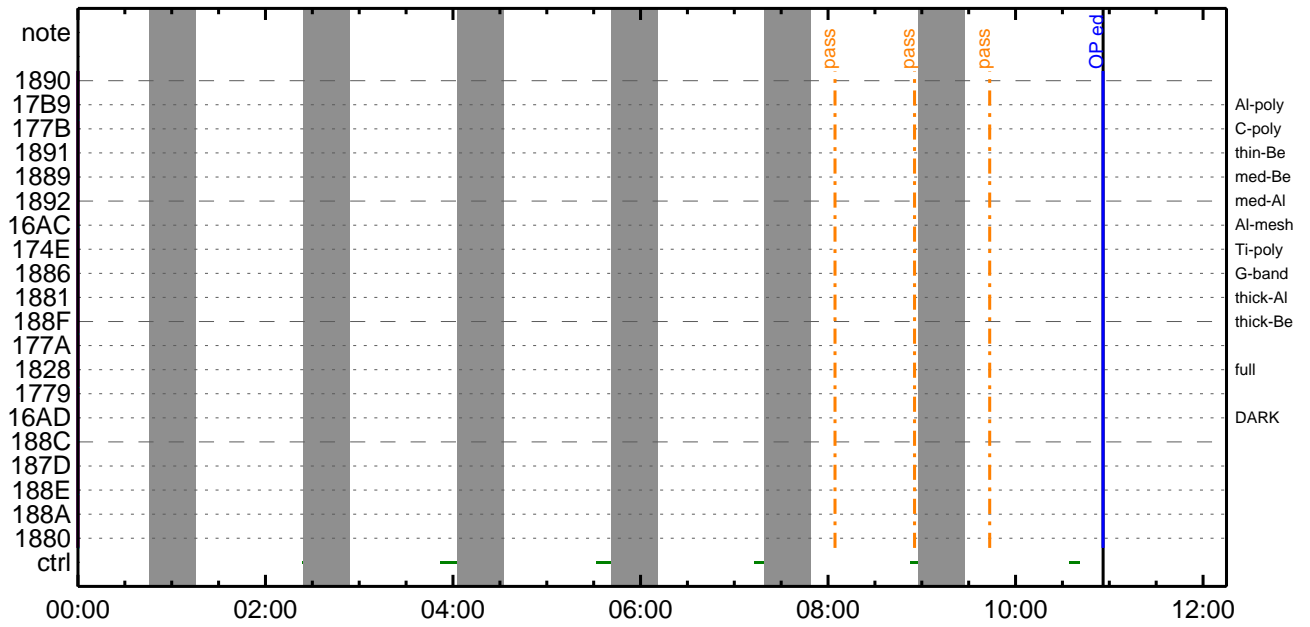
CMDI #0012 2011/07/06



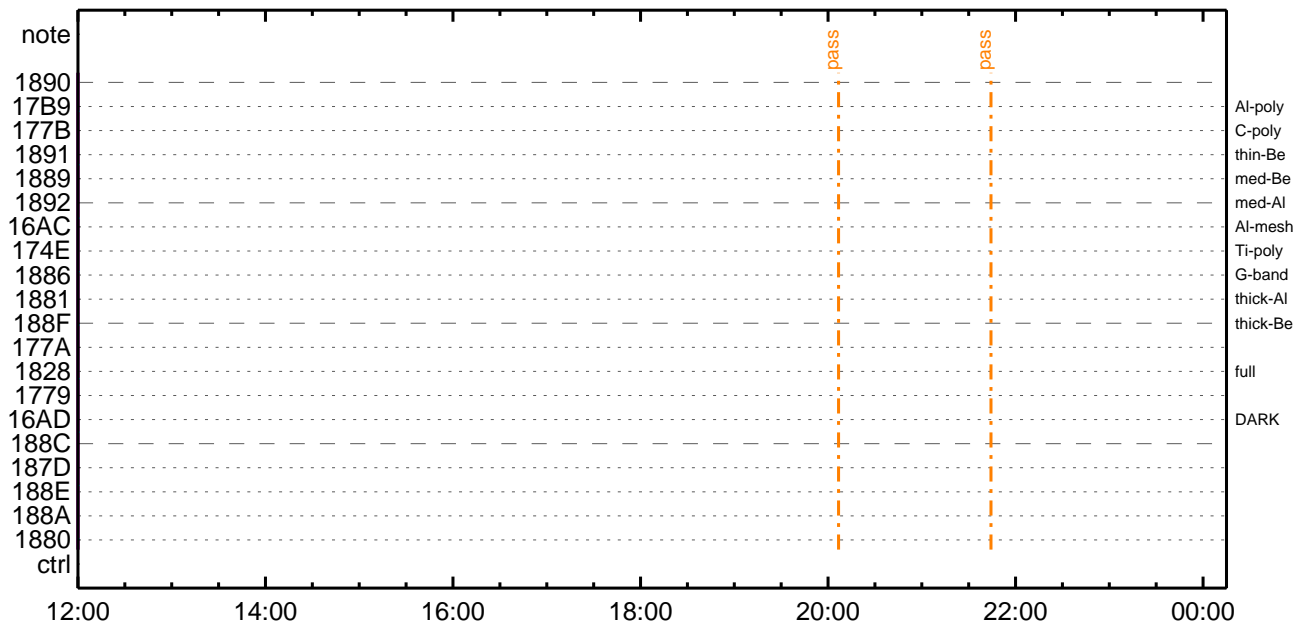
CMDI #0012 2011/07/06



CMDI #0012 2011/07/07



CMDI #0012 2011/07/07



(a) Spacecraft Operation Procedure (real-commands)

```
main-171 2011-07-02 11:40:49 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŠYÁY-¼Ä»Û;ä
0005 C.
0006 C. YÄYŠ;¼Y³YF¶YÉÄ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È□¿□Ä□•µ°Æ»Í×ÁÇ□ÍYÇYÁY×Yí;¼YÉ;ÈÈèµ•íÉ;È□È¼°ÇÖ□•□¿¼l¹Ç□Í;ÇÄ®, ù□¹□È□□ÇÄ+¿®□•□È□□□□È; f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGYí;¼YÉ;|YÄYóYx
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGYí;¼YÉ;ä
0019 . S. OP op-171:OP
0020 ( )
0021 . S. OG og-171:OG
0022 ( )
0023 C.
0024 . C. ;ãNMOG&OPÍ°èYÄYóYx;ä
0025 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C.           ÇÇ[HK1_DMP_TOP_ADRS_1]           EQ           40
0029 C.           ÇÇ[HK1_DMP_TOP_ADRS_0]           EQ           0
0030 C.           ÇÇ[HK1_DMP_BLOCK_NUM]            EQ           127
0031 C.           ÇÇ[HK1_DMP_REPEAT_NUM]          EQ           0
0032 C.           ÇÇ[HK1_DMA_DMP_PIM]             EQ           DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C.           ÇÇ[HK1_PKT_FORM_NO]             EQ           7
0036 C.           ÇÇ[HK1_PKT_GEN_TIME]            EQ           0.25 s
0037 C.           ÇÇ[HK1_S_TLM_BIT_RATE]          EQ           32k
0038 C.           ÇÇ[HK1_X_TLM_BIT_RATE]          EQ           4M
0039 C.           ÇÇ[HK1_DMP_CHK_FLG]             EQ           EXEC
0040 . C. YÄYóYx¼ªªÎ»□ð³ÍÇ§
0041 C.           ÇÇ[HK1_DMP_CHK_FLG]             EQ           NON
0042 . C. RAM ID=NMOG□Í¼È¹Ç•è²ÏOK□ð³ÍÇ§
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C.           ÇÇ[HK1_DMP_TOP_ADRS_1]           EQ           41
0048 C.           ÇÇ[HK1_DMP_TOP_ADRS_0]           EQ           0
0049 C.           ÇÇ[HK1_DMP_BLOCK_NUM]            EQ           127
0050 C.           ÇÇ[HK1_DMP_REPEAT_NUM]          EQ           0
0051 C.           ÇÇ[HK1_DMA_DMP_PIM]             EQ           DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C.           ÇÇ[HK1_PKT_FORM_NO]             EQ           7
0055 C.           ÇÇ[HK1_PKT_GEN_TIME]            EQ           0.25 s
0056 C.           ÇÇ[HK1_S_TLM_BIT_RATE]          EQ           32k
0057 C.           ÇÇ[HK1_X_TLM_BIT_RATE]          EQ           4M
0058 C.           ÇÇ[HK1_DMP_CHK_FLG]             EQ           EXEC
0059 . C. YÄYóYx¼ªªÎ»□ð³ÍÇ§
0060 C.           ÇÇ[HK1_DMP_CHK_FLG]             EQ           NON
0061 . C. RAM ID=NMOG□Í¼È¹Ç•è²ÏOK□ð³ÍÇ§
0062 C.
0063 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C.           ÇÇ[HK1_DMP_TOP_ADRS_1]           EQ           42
0067 C.           ÇÇ[HK1_DMP_TOP_ADRS_0]           EQ           0
0068 C.           ÇÇ[HK1_DMP_BLOCK_NUM]            EQ           65
0069 C.           ÇÇ[HK1_DMP_REPEAT_NUM]          EQ           0
0070 C.           ÇÇ[HK1_DMA_DMP_PIM]             EQ           DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C.           ÇÇ[HK1_PKT_FORM_NO]             EQ           7
0074 C.           ÇÇ[HK1_PKT_GEN_TIME]            EQ           0.25 s
0075 C.           ÇÇ[HK1_S_TLM_BIT_RATE]          EQ           32k
0076 C.           ÇÇ[HK1_X_TLM_BIT_RATE]          EQ           4M
0077 C.           ÇÇ[HK1_DMP_CHK_FLG]             EQ           EXEC
0078 . C. YÄYóYx¼ªªÎ»□ð³ÍÇ§
0079 C.           ÇÇ[HK1_DMP_CHK_FLG]             EQ           NON
0080 . C. RAM ID=NMOG, RAM ID=OP□Í¼È¹Ç•è²ÏOK□ð³ÍÇ§
0081 C.
0082 . C. ***** òÈ²¼□Í¼Ä´ ¶¼°□ÈÈ-□Ä+¿® (¼áµ-YÄYóYx¼¼È¼Ç□ðÄÖÁæ□Çª¼° □¼¼¿¼¼¹Ç□Ç□â) *****
0083 C. DHUÿä;¼YÉ;È¼Y¼, Yí;¼YÉ;È□òÍá□¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C.           ÇÇ[HK1_PKT_FORM_NO]             EQ           2
0087 C.           ÇÇ[HK1_PKT_GEN_TIME]            EQ           0.5S
0088 C.           ÇÇ[HK1_S_TLM_BIT_RATE]          EQ           32K
0089 C.           ÇÇ[HK1_X_TLM_BIT_RATE]          EQ           4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE |§ OPOG UPLOAD□-Ä+¿®NG□Í¼¹Ç; Ç°È²¼□Í¼TI-CMDÄ+¿®□Í¼Ä¹Ö□•□È□□□□È; f
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0096 C.                0300; SET0EDUMP0I00iYNY10C100|030E; E
0097 C.
0098 C. TIY3YBY0Y0E000ADi (UT)
0099 +. TI 2011-07-02 11:02:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                00[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0102 C.
0103 +. TI 2011-07-02 11:02:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                00[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0106 C.
0107 +. TI 2011-07-02 11:02:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                00[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0110 C.
0111 +. TI 2011-07-02 11:06:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                00[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0114 C.
0115 C.                0E2%0IA0%IIN0IYAY$YAY-1aIU
0116 C.                00[HK1_TI_CMD_ENA/DIS]            EQ        ENA
0117 C.                00[HK1_TI_CMD_NUM]              EQ        4
0118 C.                00[HK1_NEXT_EXEC_PIM]           EQ        DHU
0119 C.                00[HK1_NEXT_EXEC_DC]            EQ        0xB3
0120 C.
0121 C. *****
0122 C. TI0I0EYAY0Yx
0123 C. *****
0124 C.
0125 C. TI_TBL(0x03AB00-0x03AEFF; $ 1024byte)
0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127 BC (03 ab 03 01 02)
0128 C.                00[HK1_DMP_TOP_ADRS_1]            EQ        07
0129 C.                00[HK1_DMP_TOP_ADRS_0]            EQ        2B
0130 C.                00[HK1_DMP_BLOCK_NUM]             EQ        3
0131 C.                00[HK1_DMP_REPEAT_NUM]            EQ        0
0132 C.                00[HK1_DMA_DMP_PIM]              EQ        DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC (07 0b f8)
0135 C.                00[HK1_PKT_FORM_NO]              EQ        7
0136 C.                00[HK1_PKT_GEN_TIME]              EQ        0.25 s
0137 C.                00[HK1_S_TLM_BIT_RATE]            EQ        32k
0138 C.                00[HK1_X_TLM_BIT_RATE]           EQ        4M
0139 C.                00[HK1_DMP_CHK_FLG]              EQ        EXEC
0140 C.
0141 C.                YAY0Yx%I0000I0C$
0142 C.                00[HK1_DMP_CHK_FLG]              EQ        NON
0143 C.
0144 C. RAM ID=TI_TBL0I0E1000e2IOK0000I0C$
0145 C.
0146 C. DHUY0;Y0E;E%Y%Y;Yi;Y0E;E000IA01
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC (02 0a f8)
0149 C.                00[HK1_PKT_FORM_NO]              EQ        2
0150 C.                00[HK1_PKT_GEN_TIME]              EQ        0.5S
0151 C.                00[HK1_S_TLM_BIT_RATE]            EQ        32K
0152 C.                00[HK1_X_TLM_BIT_RATE]           EQ        4M
0153 C.
0154 C. *****
0155 C. SOT TI command set
0156 C. *****
0157 C. Execute, after the success of OP upload.
0158 +. TI 2011-07-02 11:06:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC (41)
0161 C. -----
0162 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0163 C. -----
0164 C. ***** SOT END *****
0165 C. Stop EIS observation and temporarily disable EIS mode changes
0166 C.
0167 C.
0168 C. ***** Start EIS operation (TI set) *****
0169 C. Execute, after the success of OP upload.
0170 C. Set EIS TI-commands
0171 +. TI 2011-07-02 11:06:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC (21 02)
0174 +. TI 2011-07-02 11:06:40.0
0175 DC 07-FC EIS_MODE_CHG_DIS
0176 BC (22)
0177 C.                [ ] [HK1_TI_CMD_NUM]            EQ        2 COUNTUP
0178 C. ***** End EIS operation (TI set) *****
0179 C.
0180 C.
0181 C.
0182 C. ***** XRT START *****
0183 C. Execute, after the success of OP upload.
0184 +. TI 2011-07-02 11:06:00.0
0185 DC 07-F0 MDP_XRT_MODE_STBY
0186 BC (c3)
0187 C.                [ ] [HK1_TI_CMD_NUM]            EQ        1COUNTUP
0188 C.
0189 C. ***** XRT END *****
0190 C.
0191 C. ***** MDP 0AI0I000Y0E000000EDCBC0x20 *****
0192 C. (%00I0Y0Y0E0Y0E0Y0E0Y0E0E%0000A00000)
0193 C. DC-BC dcbc-402:DCBC

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```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥ÐŸ!•İ Daily±;İÑøĒ'Øσ¹αēDCBC•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;ä
0203 C.
0204 . C. ***** LOS *****
0205 C.
```



```
0096 C.
0097 C.
0098 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ( )
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOcu_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCs Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCS DUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOcu_ORB_UPD
0128 . C.
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_MANU
0131 BC (21 02)
0132 . C. Verify EIS in MANUAL mode
0133 . C. Estimated OBSTBL upload time is 1m11s
0134 C. *****
0135 C. EIS START OBSTBL LOAD
0136 C. *****
0137 . S. RAM ram-820:EIS_OBSTBL
0138 ( )
0139 +. DC 07-FC EIS_DUMP_OBSTBL
0140 BC (07 07 07 00 00 70 00)
0141 C.
0142 C. Execute, after the success of OBSTBL upload.
0143 C. Set EIS TI-commands
0144 +. TI 2011-07-02 11:06:50.0
0145 DC 07-FC EIS_MODE_CHG_ENA
0146 BC (20)
0147 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0148 C. *****
0149 C. EIS END OBSTBL LOAD
0150 C. *****
0151 C.
0152 . C. ***** MDP 'uAiI'öYpEAĐa¹eDCBC•x²è *****
0153 C. (%ã°iYÖYÁYÉYÏYÉYáYçYèE%¼a¼Á»Û¹aè)
0154 . S. DC-BC dcbc-402:DCBC
0155 (MDP_known_event)
0156 C.
0157 C.
0158 . C. ***** YDÿ¹•I Daily±zÍÑE'Øa¹eDCBC•x²è *****
0159 . S. DC-BC dcbc-153:DCBC
0160 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0161 C.
0162 C.
0163 . C. ;ãLOS¥Á¥S¥Á¥¹¼Á»Ü;ä
0164 C.
0165 . C. ***** LOS *****
0166 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-173 2011-07-02 11:40:49 149 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿òÁø•µ°È»Í×ÁÇøÍYçYÁY×Yí;¼YÉ;ÈÈèµ•íÉ;ÈÈÈ¼°ÇÔø•ø¿¼í¹çøÍ;çÀ®, ùø¹øèøøøÇÁ+¿®ø•øÈøøøøøÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop FG table >
0018 +. DC 07-F0 MDP_FG_CTRL_MANU
0019 BC (51)
0020 . C. -----
0021 C. MDP_FG_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload FG Observation Table>
0025 . S. RAM ram-261:MDP_OBS_F
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_F >
0029 +. DC 07-F0 MDP_DUMP_FGTBL
0030 BC (82 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_F verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 . C. < Resume FG table (auto mode) >
0036 +. DC 07-F0 MDP_FG_CTRL_AUTO
0037 BC (50)
0038 . C. -----
0039 C. MDP_FG_CTRL_MODE = AUTO [ ]
0040 C. -----
0041 C.
0042 C. *****
0043 C. SOT TI command set
0044 C. *****
0045 C. Execute, after the success of TBL upload.
0046 +. TI 2011-07-02 11:06:18.0
0047 DC 07-F0 MDP_SOT_MODE_OBSV
0048 BC (40)
0049 . C. -----
0050 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0051 C. -----
0052 C.
0053 C. Only when FG_CTRL_AUTO is used in RT.
0054 +. TI 2011-07-02 11:06:20.0
0055 DC 07-F0 MDP_FG_CTRL_AUTO
0056 BC (50)
0057 . C. -----
0058 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0059 C. -----
0060 C. ***** SOT END *****
0061 C.
0062 C. ***** XRT START *****
0063 C.
0064 +. DC 07-F0 MDP_XRT_CTRL_MANU
0065 BC (c1)
0066 + DC 07-F0 MDP_XRT_MODE_STBY
0067 BC (c3)
0068 . C. ----- Success Verify ? OK / NG_____
0069 C.
0070 C. XRT Obs. Table Upload
0071 . S. RAM ram-291:MDP_OBS_X
0072 ( )
0073 C.
0074 +. DC 07-F0 MDP_DUMP_XRTTBL
0075 BC (84 07 00 00 00 3a d4)
0076 . C. ----- Comparison Check ? OK / ERR _____
0077 C.
0078 C.
0079 +. DC 07-F0 MDP_XRT_ROI_SET
0080 BC (cd 01 b1 b1 04 04)
0081 + DC 07-F0 MDP_XRT_ROI_SET
0082 BC (cd 02 b1 b1 08 08)
0083 + DC 07-F0 MDP_XRT_ROI_SET
0084 BC (cd 03 b1 b1 08 08)
0085 + DC 07-F0 MDP_XRT_ROI_SET
0086 BC (cd 04 b1 b1 06 06)
0087 + DC 07-F0 MDP_XRT_ROI_SET
0088 BC (cd 05 85 83 08 08)
0089 + DC 07-F0 MDP_XRT_ROI_SET
0090 BC (cd 06 85 83 06 06)
0091 + DC 07-F0 MDP_XRT_ROI_SET
0092 BC (cd 07 85 83 08 08)
0093 + DC 07-F0 MDP_XRT_ROI_SET
0094 BC (cd 08 80 80 20 20)
0095 + DC 07-F0 MDP_XRT_ROI_SET
```

0096 BC (cd 09 80 80 20 08)
0097 + DC 07-F0 MDP_XRT_ROI_SET
0098 BC (cd 0a 80 80 08 20)
0099 + DC 07-F0 MDP_XRT_ROI_SET
0100 BC (cd 0b 80 60 20 18)
0101 + DC 07-F0 MDP_XRT_ROI_SET
0102 BC (cd 0c a0 80 18 20)
0103 + DC 07-F0 MDP_XRT_ROI_SET
0104 BC (cd 0f 80 80 06 06)
0105 + DC 07-F0 MDP_XRT_ROI_SET
0106 BC (cd 10 80 80 08 08)
0107 + DC 07-F0 MDP_XRT_FLD_ENA
0108 BC (d8)
0109 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0110 BC (c8)
0111 + DC 07-F0 MDP_XRT_AEC_RESET
0112 BC (d0)
0113 + DC 07-F0 MDP_XRT_ARS_DIS
0114 BC (d5)
0115 + DC 07-F0 MDP_XRT_FLD_RESET
0116 BC (da)
0117 + DC 07-F0 MDP_XRT_QT_PROG_SET
0118 BC (c4 0c)
0119 + DC 07-F0 MDP_XRT_QT_PROG_SET
0120 BC (c4 08)
0121 . C. ----- Success Verify ? OK / NG ____
0122 C.
0123 C.
0124 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0125 C.
0126 + DC 07-F0 MDP_XRT_MODE_OBSV
0127 BC (c2)
0128 + TI 2011-07-02 11:06:02.0
0129 DC 07-F0 MDP_XRT_MODE_OBSV
0130 BC (c2)
0131 . C. ----- Success Verify ? OK / NG ____
0132 C.
0133 C. ***** XRT END *****
0134 C.
0135 . C. ***** MDP `úÃîï»ö¼ÝðĒĀĐñ¹ñēDCBC•x²è *****
0136 C. (%á°îÿÓŸĀŸĒŸŸĒŸŸĀŸçŸēñĒ¼ññ¼Ā»Ūñ¹ñē)
0137 . S. DC-BC dcbc-402:DCBC
0138 (MDP_known_event)
0139 C.
0140 C.
0141 . C. ***** ŸĐŸ¹•Ī Daily±¿ĪññĒ`Øñ¹ñēDCBC•x²è *****
0142 . S. DC-BC dcbc-153:DCBC
0143 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0144 C.
0145 C.
0146 . C. ;ãLOSŸĀŸŸŸĀŸ~¼Ā»Ū;ã
0147 C.
0148 . C. ***** LOS *****
0149 C.

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*** OP Sequence for XRT ***

| | | | | | | | | | |
|------------|------------|------------------------------------|---|-------|-------------------|--|--|--|--|
| 2011/07/02 | 11:16:54.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/02 | 11:16:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | | | |
| 2011/07/02 | 11:17:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | | | |
| 2011/07/02 | 11:17:16.0 | XRT_FLD_DIS_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | | |
| 2011/07/02 | 11:17:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | | |
| 2011/07/02 | 11:17:20.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2011/07/02 | 11:19:58.0 | XRT_QT_PROG_SET_446_OG [0x1be] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11 | | | | |
| 2011/07/02 | 11:20:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/02 | 11:27:00.0 | AOCS_Ore-point_Start_2_OG [0x098] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 4d f3 | | | | |
| 2011/07/02 | 11:43:00.0 | AOCS_Ore-point_Start_3_OG [0x099] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 3c 41 | | | | |
| 2011/07/02 | 11:58:00.0 | AOCS_Ore-point_Start_4_OG [0x09a] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 2a 8f | | | | |
| 2011/07/02 | 12:26:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/02 | 12:26:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/02 | 12:26:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/02 | 12:29:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/02 | 12:56:00.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/02 | 12:57:00.0 | AOCS_Ore-point_Start_5_OG [0x09b] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 18 dd | | | | |
| 2011/07/02 | 12:57:00.5 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/02 | 13:12:00.0 | AOCS_Ore-point_Start_6_OG [0x09c] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 07 2b | | | | |
| 2011/07/02 | 13:27:00.0 | AOCS_Ore-point_Start_7_OG [0x09d] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 f5 79 | | | | |
| 2011/07/02 | 13:42:00.0 | AOCS_Ore-point_Start_8_OG [0x09e] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 e3 c7 | | | | |
| 2011/07/02 | 14:04:30.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/02 | 14:04:32.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/02 | 14:04:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/02 | 14:07:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/02 | 14:41:30.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/02 | 14:42:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/02 | 14:43:00.0 | AOCS_Ore-point_Start_9_OG [0x09f] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 d2 15 | | | | |
| 2011/07/02 | 14:58:00.0 | AOCS_Ore-point_Start_10_OG [0x0a0] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 c0 63 | | | | |
| 2011/07/02 | 15:13:00.0 | AOCS_Ore-point_Start_11_OG [0x0a1] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 ae b1 | | | | |
| 2011/07/02 | 15:43:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/02 | 15:43:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/02 | 15:43:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/02 | 15:46:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/02 | 16:30:00.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/02 | 16:31:00.0 | AOCS_Ore-point_Start_12_OG [0x0a2] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 15 a9 50 fd | | | | |
| 2011/07/02 | 16:31:00.5 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/02 | 16:46:00.0 | AOCS_Ore-point_Start_13_OG [0x0a3] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 18 41 40 ac | | | | |
| 2011/07/02 | 17:01:00.0 | AOCS_Ore-point_Start_14_OG [0x0a4] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 19 16 30 62 | | | | |
| 2011/07/02 | 17:21:30.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/02 | 17:21:32.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/02 | 17:21:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/02 | 17:24:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/02 | 18:06:30.5 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/02 | 18:07:30.5 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/02 | 18:08:00.0 | AOCS_Ore-point_Start_15_OG [0x0a5] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 19 91 1f c6 | | | | |
| 2011/07/02 | 18:23:00.0 | AOCS_Ore-point_Start_16_OG [0x0a6] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 19 db 0e d0 | | | | |
| 2011/07/02 | 18:38:00.0 | AOCS_Ore-point_Start_17_OG [0x0a7] | | | | | | | |

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| | | | | | | | | | | |
|------------|------------|------------------------------------|---------|---|-------|----|----|----|----|----|
| 2011/07/02 | 19:00:00.0 | XRT_CTRL_MANU_408_OG [0x198] | AOCU_NM | 5 | 02-76 | 00 | 19 | eb | fd | 82 |
| | | MDP_XRT_CTRL_MANU | | 1 | 07-F0 | | | c1 | | |
| 2011/07/02 | 19:00:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | | |
| | | MDP_XRT_FLD_RESET | | 1 | 07-F0 | | | da | | |
| 2011/07/02 | 19:00:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | | 1 | 07-F0 | | | e8 | | |
| 2011/07/02 | 19:03:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | | 1 | 07-F0 | | | e9 | | |
| 2011/07/02 | 19:43:30.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | | |
| 2011/07/02 | 19:44:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | | 1 | 07-F0 | | | c0 | | |
| 2011/07/02 | 19:45:00.0 | AOCS_Ore-point_Start_18_OG [0x0a8] | | | | | | | | |
| | | AOCU_NM | | 5 | 02-76 | 00 | 19 | db | f1 | 30 |
| 2011/07/02 | 20:00:00.0 | AOCS_Ore-point_Start_19_OG [0x0a9] | | | | | | | | |
| | | AOCU_NM | | 5 | 02-76 | 00 | 19 | 91 | e0 | 3a |
| 2011/07/02 | 20:15:00.0 | AOCS_Ore-point_Start_20_OG [0x0aa] | | | | | | | | |
| | | AOCU_NM | | 5 | 02-76 | 00 | 19 | 16 | cf | 9e |
| 2011/07/02 | 20:38:30.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | | 1 | 07-F0 | | | c1 | | |
| 2011/07/02 | 20:38:32.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | | |
| | | MDP_XRT_FLD_RESET | | 1 | 07-F0 | | | da | | |
| 2011/07/02 | 20:38:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | | 1 | 07-F0 | | | e8 | | |
| 2011/07/02 | 20:41:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | | 1 | 07-F0 | | | e9 | | |
| 2011/07/02 | 21:20:30.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | | |
| 2011/07/02 | 21:21:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | | 1 | 07-F0 | | | c0 | | |
| 2011/07/02 | 21:22:00.0 | AOCS_Ore-point_Start_21_OG [0x0ab] | | | | | | | | |
| | | AOCU_NM | | 5 | 02-76 | 00 | 18 | 41 | bf | 54 |
| 2011/07/02 | 21:37:00.0 | AOCS_Ore-point_Start_22_OG [0x0ac] | | | | | | | | |
| | | AOCU_NM | | 5 | 02-76 | 00 | 15 | a9 | af | 03 |
| 2011/07/02 | 21:51:54.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | | 1 | 07-F0 | | | c1 | | |
| 2011/07/02 | 21:51:56.0 | XRT_FOCUS_POSITION_409_OG [0x199] | | | | | | | | |
| | | XRT_FOCUS_POSITION | | 4 | 07-F8 | 22 | fe | 97 | 00 | |
| 2011/07/02 | 21:52:00.0 | AOCS_Ore-point_Start_23_OG [0x0ad] | | | | | | | | |
| | | AOCU_NM | | 5 | 02-76 | 00 | ac | 00 | 00 | 00 |
| 2011/07/02 | 21:52:16.0 | XRT_FLD_DIS_402_OG [0x192] | | | | | | | | |
| | | MDP_XRT_FLD_DIS | | 1 | 07-F0 | | | d9 | | |
| 2011/07/02 | 21:52:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1] | | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | | 1 | 07-F0 | | | c9 | | |
| 2011/07/02 | 21:52:20.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | | |
| | | MDP_XRT_ARS_DIS | | 1 | 07-F0 | | | d5 | | |
| 2011/07/02 | 21:54:58.0 | XRT_QT_PROG_SET_429_OG [0x1ad] | | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | | 2 | 07-F0 | | | c4 | 0e | |
| 2011/07/02 | 21:55:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | | 1 | 07-F0 | | | c0 | | |
| 2011/07/02 | 22:22:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | | 1 | 07-F0 | | | c1 | | |
| 2011/07/02 | 22:22:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | | |
| | | MDP_XRT_FLD_RESET | | 1 | 07-F0 | | | da | | |
| 2011/07/02 | 22:22:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | | 1 | 07-F0 | | | e8 | | |
| 2011/07/02 | 22:25:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | | 1 | 07-F0 | | | e9 | | |
| 2011/07/02 | 22:42:00.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | | |
| 2011/07/02 | 22:43:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | | 1 | 07-F0 | | | c0 | | |
| 2011/07/03 | 00:00:30.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | | 1 | 07-F0 | | | c1 | | |
| 2011/07/03 | 00:00:32.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | | |
| | | MDP_XRT_FLD_RESET | | 1 | 07-F0 | | | da | | |
| 2011/07/03 | 00:00:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | | 1 | 07-F0 | | | e8 | | |
| 2011/07/03 | 00:03:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | | 1 | 07-F0 | | | e9 | | |
| 2011/07/03 | 00:20:00.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | | |
| 2011/07/03 | 00:21:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | | 1 | 07-F0 | | | c0 | | |
| 2011/07/03 | 00:24:54.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | | 1 | 07-F0 | | | c1 | | |
| 2011/07/03 | 00:24:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | | | | | | | | |
| | | XRT_FOCUS_POSITION | | 4 | 07-F8 | 22 | ff | aa | 00 | |
| 2011/07/03 | 00:25:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | | | | | | | | |
| | | AOCU_NM | | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |
| 2011/07/03 | 00:25:16.0 | XRT_FLD_DIS_402_OG [0x192] | | | | | | | | |
| | | MDP_XRT_FLD_DIS | | 1 | 07-F0 | | | d9 | | |
| 2011/07/03 | 00:25:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1] | | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | | 1 | 07-F0 | | | c9 | | |
| 2011/07/03 | 00:25:20.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | | |
| | | MDP_XRT_ARS_DIS | | 1 | 07-F0 | | | d5 | | |
| 2011/07/03 | 00:27:58.0 | XRT_QT_PROG_SET_434_OG [0x1b2] | | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | | 2 | 07-F0 | | | c4 | 13 | |
| 2011/07/03 | 00:28:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | | 1 | 07-F0 | | | c0 | | |
| 2011/07/03 | 00:34:54.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | | |
| | | MDP_XRT_CTRL_MANU | | 1 | 07-F0 | | | c1 | | |
| 2011/07/03 | 00:34:56.0 | XRT_FOCUS_POSITION_409_OG [0x199] | | | | | | | | |
| | | XRT_FOCUS_POSITION | | 4 | 07-F8 | 22 | fe | 97 | 00 | |
| 2011/07/03 | 00:35:00.0 | AOCS_Ore-point_Start_24_OG [0x0ae] | | | | | | | | |
| | | AOCU_NM | | 5 | 02-76 | 00 | 00 | 00 | 54 | 00 |

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|------------|------------|------------------------------------|---|-------|----|----|----|----|----|
| 2011/07/03 | 00:35:16.0 | XRT_FLD_DIS_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | | |
| 2011/07/03 | 00:35:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | | |
| 2011/07/03 | 00:35:20.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2011/07/03 | 00:37:58.0 | XRT_QT_PROG_SET_432_OG [0x1b0] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 06 | | | |
| 2011/07/03 | 00:38:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 01:39:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 01:39:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 01:39:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 01:42:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 01:58:30.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 01:59:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 02:34:54.0 | XRT_CTRL_MANU_439_OG [0x1b7] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 02:35:00.0 | AOCS_OrE-point_Start_25_OG [0x0af] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 02 | 00 | 00 | 00 | 00 |
| 2011/07/03 | 02:37:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 | fe | 97 | 00 | |
| 2011/07/03 | 02:37:46.0 | XRT_FLD_ENA_411_OG [0x19b] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2011/07/03 | 02:37:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2011/07/03 | 02:37:50.0 | XRT_AEC_RESET_443_OG [0x1bb] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2011/07/03 | 02:37:52.0 | XRT_ARS_DIS_431_OG [0x1af] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2011/07/03 | 02:37:54.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 02:37:56.0 | XRT_QT_PROG_SET_403_OG [0x193] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 | 04 | | | |
| 2011/07/03 | 02:37:58.0 | XRT_FL_PROG_SET_414_OG [0x19e] | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 | 08 | | | |
| 2011/07/03 | 02:38:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 03:11:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 03:11:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 03:11:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 03:14:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 03:42:30.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 03:43:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 04:41:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 04:41:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 04:41:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 04:44:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 05:21:00.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 05:22:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 06:21:30.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 06:21:32.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 06:21:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 06:24:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 06:59:30.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 07:00:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 08:01:30.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 08:01:32.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 08:01:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 08:04:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 08:38:00.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 08:39:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 09:42:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 09:42:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 09:42:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |

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|------------|------------|------------------------------------|---|-------|----------------|--|--|--|--|
| 2011/07/03 | 09:45:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 10:16:54.0 | XRT_CTRL_MANU_400_OG [0x190] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 10:16:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | | | |
| 2011/07/03 | 10:17:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | | | |
| 2011/07/03 | 10:17:16.0 | XRT_FLD_DIS_402_OG [0x192] | | | | | | | |
| | | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | | |
| 2011/07/03 | 10:17:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1] | | | | | | | |
| | | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | | |
| 2011/07/03 | 10:17:20.0 | XRT_ARS_DIS_438_OG [0x1b6] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2011/07/03 | 10:19:58.0 | XRT_QT_PROG_SET_446_OG [0x1be] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11 | | | | |
| 2011/07/03 | 10:20:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 10:26:54.0 | XRT_CTRL_MANU_439_OG [0x1b7] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 10:27:00.0 | AOCS_OrE-point_Start_26_OG [0x0b0] | | | | | | | |
| | | AOCU_NM | 5 | 02-76 | 00 b3 a6 00 5a | | | | |
| 2011/07/03 | 10:29:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | | | | | | | |
| | | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | |
| 2011/07/03 | 10:29:46.0 | XRT_FLD_ENA_426_OG [0x1aa] | | | | | | | |
| | | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2011/07/03 | 10:29:48.0 | XRT_FLRCTRL_ENA_435_OG [0x1b3] | | | | | | | |
| | | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2011/07/03 | 10:29:50.0 | XRT_AEC_RESET_443_OG [0x1bb] | | | | | | | |
| | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2011/07/03 | 10:29:52.0 | XRT_ARS_DIS_431_OG [0x1af] | | | | | | | |
| | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2011/07/03 | 10:29:54.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 10:29:56.0 | XRT_QT_PROG_SET_436_OG [0x1b4] | | | | | | | |
| | | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d | | | | |
| 2011/07/03 | 10:29:58.0 | XRT_FL_PROG_SET_414_OG [0x19e] | | | | | | | |
| | | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08 | | | | |
| 2011/07/03 | 10:30:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 11:24:30.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 11:24:32.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 11:24:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 11:27:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 11:55:00.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 11:56:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 13:03:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 13:03:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 13:03:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 13:06:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 13:33:30.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 13:34:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 14:41:30.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 14:41:32.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 14:41:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 14:44:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 15:20:00.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 15:21:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 15:28:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 15:28:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 15:28:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 15:29:30.0 | XRT_Custom_418_OG [0x1a2] | | | | | | | |
| 2011/07/03 | 15:30:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | |
| | | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/03 | 15:31:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 16:20:00.0 | XRT_CTRL_MANU_408_OG [0x198] | | | | | | | |
| | | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/03 | 16:20:02.0 | XRT_FLD_RESET_412_OG [0x19c] | | | | | | | |
| | | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/03 | 16:20:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | | | | | | | |
| | | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/03 | 16:23:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | | | | |
| | | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/03 | 16:43:54.0 | XRT_CTRL_MANU_439_OG [0x1b7] | | | | | | | |

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|------------|------------|------------------------------------|---------------------|---|-------|----------------|
| 2011/07/03 | 16:44:00.0 | AOCS_OrE-point_Start_25_OG [0x0af] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| | | | AOCU_NM | 5 | 02-76 | 02 00 00 00 00 |
| 2011/07/03 | 16:46:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2011/07/03 | 16:46:46.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2011/07/03 | 16:46:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2011/07/03 | 16:46:50.0 | XRT_AEC_RESET_443_OG [0x1bb] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2011/07/03 | 16:46:52.0 | XRT_ARS_DIS_431_OG [0x1af] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2011/07/03 | 16:46:54.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/03 | 16:46:56.0 | XRT_QT_PROG_SET_428_OG [0x1ac] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0c |
| 2011/07/03 | 16:46:58.0 | XRT_FL_PROG_SET_414_OG [0x19e] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08 |
| 2011/07/03 | 17:06:30.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/03 | 17:07:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/03 | 17:58:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/03 | 17:58:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/03 | 17:58:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/03 | 18:01:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/03 | 18:43:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/03 | 18:44:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/03 | 19:37:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/03 | 19:37:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/03 | 19:37:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/03 | 19:40:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/03 | 20:20:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/03 | 20:21:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/03 | 21:15:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/03 | 21:15:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/03 | 21:15:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/03 | 21:18:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/03 | 21:57:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/03 | 21:58:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/03 | 22:54:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/03 | 22:54:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/03 | 22:54:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/03 | 22:57:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/03 | 23:28:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/03 | 23:29:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/03 | 23:59:54.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/03 | 23:59:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2011/07/04 | 00:00:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | MDP_XRT_CTRL_MANU | 5 | 02-76 | 00 00 00 00 00 |
| | | | AOCU_NM | 5 | 02-76 | 02 00 00 00 00 |
| 2011/07/04 | 00:00:16.0 | XRT_FLD_DIS_402_OG [0x192] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2011/07/04 | 00:00:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2011/07/04 | 00:00:20.0 | XRT_ARS_DIS_438_OG [0x1b6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2011/07/04 | 00:02:58.0 | XRT_QT_PROG_SET_434_OG [0x1b2] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 13 |
| 2011/07/04 | 00:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 00:09:54.0 | XRT_CTRL_MANU_439_OG [0x1b7] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 00:10:00.0 | AOCS_OrE-point_Start_25_OG [0x0af] | MDP_XRT_CTRL_MANU | 5 | 02-76 | 02 00 00 00 00 |
| | | | AOCU_NM | 5 | 02-76 | 02 00 00 00 00 |
| 2011/07/04 | 00:12:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2011/07/04 | 00:12:46.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2011/07/04 | 00:12:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2011/07/04 | 00:12:50.0 | XRT_AEC_RESET_443_OG [0x1bb] | | | | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2011/07/04 | 00:12:52.0 | XRT_ARS_DIS_431_OG [0x1af] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| | | | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2011/07/04 | 00:12:54.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 00:12:56.0 | XRT_QT_PROG_SET_403_OG [0x193] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04 |
| 2011/07/04 | 00:12:58.0 | XRT_FL_PROG_SET_414_OG [0x19e] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08 |
| 2011/07/04 | 00:13:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 00:32:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 00:32:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 00:32:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 00:35:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 01:02:30.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 01:03:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 02:11:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 02:11:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 02:11:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 02:14:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 02:41:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 02:42:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 03:40:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 03:40:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 03:40:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 03:43:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 04:19:30.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 04:20:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 05:19:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 05:19:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 05:19:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 05:22:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 05:58:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 05:59:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 06:59:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 06:59:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 06:59:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 07:02:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 07:36:30.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 07:37:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 08:39:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 08:39:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 08:39:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 08:42:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 09:15:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 09:16:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 09:59:54.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 09:59:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 |
| 2011/07/04 | 10:00:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 |
| 2011/07/04 | 10:00:16.0 | XRT_FLD_DIS_402_OG [0x192] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 |
| 2011/07/04 | 10:00:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 |
| 2011/07/04 | 10:00:20.0 | XRT_ARS_DIS_438_OG [0x1b6] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2011/07/04 | 10:02:58.0 | XRT_QT_PROG_SET_446_OG [0x1be] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 11 |
| 2011/07/04 | 10:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |

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|------------|------------|------------------------------------|---------------------|---|-------|----------------|
| 2011/07/04 | 10:09:54.0 | XRT_CTRL_MANU_439_OG [0x1b7] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 10:10:00.0 | AOCS_Ore-point_Start_27_OG [0x0b1] | AOCU_NM | 5 | 02-76 | 00 53 a5 00 5a |
| 2011/07/04 | 10:12:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2011/07/04 | 10:12:46.0 | XRT_FLD_ENA_426_OG [0x1aa] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2011/07/04 | 10:12:48.0 | XRT_FLRCTRL_ENA_435_OG [0x1b3] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2011/07/04 | 10:12:50.5 | XRT_AEC_RESET_443_OG [0x1bb] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2011/07/04 | 10:12:52.5 | XRT_ARS_DIS_431_OG [0x1af] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2011/07/04 | 10:12:54.5 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 10:12:56.5 | XRT_QT_PROG_SET_436_OG [0x1b4] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 0d |
| 2011/07/04 | 10:12:58.5 | XRT_FL_PROG_SET_414_OG [0x19e] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08 |
| 2011/07/04 | 10:13:00.5 | XRT_CTRL_AUTO_406_OG [0x196] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 10:20:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 10:20:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 10:20:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 10:23:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 10:53:30.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 10:54:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 12:02:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 12:02:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 12:02:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 12:05:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 12:32:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 12:33:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 13:40:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 13:40:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 13:40:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 13:43:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 14:15:00.5 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 14:16:00.5 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 15:19:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 15:19:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 15:19:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 15:22:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/04 | 15:42:54.0 | XRT_CTRL_MANU_439_OG [0x1b7] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 15:43:00.0 | AOCS_Ore-point_Start_25_OG [0x0af] | AOCU_NM | 5 | 02-76 | 02 00 00 00 00 |
| 2011/07/04 | 15:45:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 |
| 2011/07/04 | 15:45:46.0 | XRT_FLD_ENA_411_OG [0x19b] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 |
| 2011/07/04 | 15:45:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| 2011/07/04 | 15:45:50.0 | XRT_AEC_RESET_443_OG [0x1bb] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2011/07/04 | 15:45:52.0 | XRT_ARS_DIS_431_OG [0x1af] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2011/07/04 | 15:45:54.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 15:45:56.0 | XRT_QT_PROG_SET_440_OG [0x1b8] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 01 |
| 2011/07/04 | 15:45:58.0 | XRT_FL_PROG_SET_414_OG [0x19e] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08 |
| 2011/07/04 | 16:06:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/04 | 16:07:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/04 | 16:57:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/04 | 16:57:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/04 | 16:57:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/04 | 17:00:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | | | | |

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|------------|------------|--------------------------------------|---------------------|---|-------|----------------|--|--|--|--|
| 2011/07/04 | 17:43:00.0 | XRT_Custom_418_OG [0x1a2] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/04 | 17:44:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | | |
| 2011/07/04 | 18:35:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/04 | 18:35:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/04 | 18:35:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/04 | 18:38:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/04 | 19:00:00.0 | AOCS_OrE-point_Start_28_OG [0x0b2] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/04 | 19:39:54.0 | XRT_CTRL_MANU_439_OG [0x1b7] | AOCU_NM | 5 | 02-76 | 00 e4 8c 4e 35 | | | | |
| 2011/07/04 | 19:40:00.0 | AOCS_OrE-point_Start_25_OG [0x0af] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/04 | 19:42:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | AOCU_NM | 5 | 02-76 | 02 00 00 00 00 | | | | |
| 2011/07/04 | 19:42:46.0 | XRT_FLD_ENA_411_OG [0x19b] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | |
| 2011/07/04 | 19:42:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |
| 2011/07/04 | 19:42:50.0 | XRT_AEC_RESET_443_OG [0x1bb] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 | | | | |
| 2011/07/04 | 19:42:52.0 | XRT_ARS_DIS_431_OG [0x1af] | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 | | | | |
| 2011/07/04 | 19:42:54.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2011/07/04 | 19:42:56.0 | XRT_QT_PROG_SET_403_OG [0x193] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/04 | 19:42:58.0 | XRT_FL_PROG_SET_414_OG [0x19e] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04 | | | | |
| 2011/07/04 | 19:43:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08 | | | | |
| 2011/07/04 | 20:14:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/04 | 20:14:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/04 | 20:14:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/04 | 20:17:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/04 | 20:57:00.0 | XRT_Custom_418_OG [0x1a2] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/04 | 20:58:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | | |
| 2011/07/04 | 21:52:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/04 | 21:52:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/04 | 21:52:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/04 | 21:55:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/04 | 22:32:30.0 | XRT_Custom_418_OG [0x1a2] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/04 | 22:33:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | | | | | | | | |
| 2011/07/04 | 23:31:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/04 | 23:31:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/04 | 23:31:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da | | | | |
| 2011/07/04 | 23:34:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 | | | | |
| 2011/07/04 | 23:59:54.0 | XRT_CTRL_MANU_400_OG [0x190] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 | | | | |
| 2011/07/04 | 23:59:56.0 | XRT_FOCUS_POSITION_401_OG [0x191] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/05 | 00:00:00.0 | AOCS_OrE-point_Start_1_OG [0x097] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 ff aa 00 | | | | |
| 2011/07/05 | 00:00:16.0 | XRT_FLD_DIS_402_OG [0x192] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 | | | | |
| 2011/07/05 | 00:00:18.0 | XRT_FLRCTRL_DIS_433_OG [0x1b1] | MDP_XRT_FLD_DIS | 1 | 07-F0 | d9 | | | | |
| 2011/07/05 | 00:00:20.0 | XRT_ARS_DIS_438_OG [0x1b6] | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9 | | | | |
| 2011/07/05 | 00:02:58.0 | XRT_QT_PROG_SET_434_OG [0x1b2] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 | | | | |
| 2011/07/05 | 00:03:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 13 | | | | |
| 2011/07/05 | 00:09:54.0 | XRT_CTRL_MANU_439_OG [0x1b7] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 | | | | |
| 2011/07/05 | 00:10:00.0 | AOCS_OrE-point_Start_25_OG [0x0af] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 | | | | |
| 2011/07/05 | 00:12:26.0 | XRT_FOCUS_RECALIBRATE_430_OG [0x1ae] | AOCU_NM | 5 | 02-76 | 02 00 00 00 00 | | | | |
| 2011/07/05 | 00:16:26.0 | XRT_FOCUS_POSITION_409_OG [0x199] | XRT_FOCUS_RECAL | 2 | 07-F8 | 78 00 | | | | |
| 2011/07/05 | 00:16:46.0 | XRT_FLD_ENA_411_OG [0x19b] | XRT_FOCUS_POSITION | 4 | 07-F8 | 22 fe 97 00 | | | | |
| 2011/07/05 | 00:16:48.0 | XRT_FLRCTRL_ENA_413_OG [0x19d] | MDP_XRT_FLD_ENA | 1 | 07-F0 | d8 | | | | |

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|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2011/07/05 | 00:16:50.0 | XRT_AEC_RESET_443_OG [0x1bb] | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8 |
| | | | MDP_XRT_AEC_RESET | 1 | 07-F0 | d0 |
| 2011/07/05 | 00:16:52.0 | XRT_ARS_DIS_431_OG [0x1af] | MDP_XRT_ARS_DIS | 1 | 07-F0 | d5 |
| 2011/07/05 | 00:16:54.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/05 | 00:16:56.0 | XRT_QT_PROG_SET_403_OG [0x193] | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 04 |
| 2011/07/05 | 00:16:58.0 | XRT_FL_PROG_SET_414_OG [0x19e] | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 08 |
| 2011/07/05 | 00:17:00.0 | XRT_CTRL_AUTO_406_OG [0x196] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/05 | 01:09:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/05 | 01:09:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/05 | 01:09:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/05 | 01:12:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/05 | 01:39:30.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/05 | 01:40:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/05 | 02:47:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/05 | 02:47:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/05 | 02:47:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/05 | 02:50:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/05 | 03:18:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/05 | 03:19:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/05 | 04:16:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/05 | 04:16:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/05 | 04:16:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/05 | 04:19:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/05 | 04:56:30.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/05 | 04:57:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/05 | 05:57:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/05 | 05:57:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/05 | 05:57:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/05 | 06:00:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/05 | 06:35:00.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/05 | 06:36:00.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/05 | 07:37:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/05 | 07:37:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/05 | 07:37:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/05 | 07:40:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/05 | 08:13:30.0 | XRT_Custom_418_OG [0x1a2] | | | | |
| 2011/07/05 | 08:14:30.0 | XRT_CTRL_AUTO_419_OG [0x1a3] | MDP_XRT_CTRL_AUTO | 1 | 07-F0 | c0 |
| 2011/07/05 | 09:17:00.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/05 | 09:17:02.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/05 | 09:17:04.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/05 | 09:20:14.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/05 | 11:00:30.0 | XRT_CTRL_MANU_408_OG [0x198] | MDP_XRT_CTRL_MANU | 1 | 07-F0 | c1 |
| 2011/07/05 | 11:00:32.0 | XRT_FLD_RESET_412_OG [0x19c] | MDP_XRT_FLD_RESET | 1 | 07-F0 | da |
| 2011/07/05 | 11:00:34.0 | XRT_PREFLR_STRT_422_OG [0x1a6] | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8 |
| 2011/07/05 | 11:03:44.0 | XRT_PREFLR_STOP_424_OG [0x1a8] | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9 |
| 2011/07/05 | 11:29:00.0 | AOCS_Ore-point_Start_1_OG [0x097] | AOCU_NM | 5 | 02-76 | 00 00 00 00 00 |