XRT Timeline to be uploaded on 2010/07/08

Period: 2010/07/08 10:27:00 - 2010/07/12 09:39:00

* * * * * **Normal mode** * * * * *

XOB #17E4: Eclipse-AR-Remnant-Al/Mesh-Ti/Poly-Thick-Be-512x512-Q95-18sec cad

Term	Pointing (x, y)	Comment
07/08 10:40:02 - 07/08 10:50:00	Track (852.2, -369.8) @ 07/08 10:37:00	# OP start + 10min, track AR NOAA11084
07/11 17:11:36 - 07/11 18:01:30	Fixed (-670.0, -670.0)	eclipse; AR remnant near SE limb

PROG= 10 Inf.-time(s)

Subr= 1 1-time(s) 24.0sec

Seqn= 64 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/thick-Al	Open/thick-Al	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 2 2-time(s) 18.0sec

Seqn= 63 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	86ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	177ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec

XOB #17E1: AR Dynamics- Ti/Poly(384FOV) AEC2_3 Q95, G-band(512FOV) - 3min cadence-wide-FOV

Term	Pointing (x, y)	Comment
07/08 10:53:06 - 07/08 17:33:24	Track (852.2, -369.8) @ 07/08 10:37:00	# OP start + 10min, track AR NOAA11084
07/08 18:35:06 - 07/08 19:26:30	Fixed (-865.0, 320.0)	HOP165 (AR obs on E limb)

PROG= 06 Inf.-time(s)

Subr= 1 1-time(s) 30.0sec

Seqn= 27 1-time(s) 30.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1064, 1048)	Q=98	0	0	2.0sec

Subr= 2 15-time(s) 180.0sec

Seqn= 58 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	512x384 (1024, 1024)	Q=95	3	0	2.0sec

Seqn= 59 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	512x384 (1024, 1024)	Q=95	2	0	2.0sec

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
07/08 17:36:30 - 07/08 18:32:00	Fixed (0.0, 0.0)	synoptic, shifted -26.5 min
07/09 06:03:00 - 07/09 06:09:54	Fixed (0.0, 0.0)	synoptic
07/09 18:06:30 - 07/09 18:13:24	Fixed (0.0, 0.0)	synoptic, shifted 3.5 min
07/10 06:33:00 - 07/10 06:39:54	Fixed (0.0, 0.0)	synoptic, shifted 30.0 min

PROG= 03 1-time(s)

Subr= 1 1-time(s) 12.0sec

Seqn= 7 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 5 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec

Seqn= 8 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	32ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 4 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

XOB #17A9: Full-disk Full-Res Al/Mesh, Ti/Poly, Thick/Al - 2 loops

Term	Pointing (x, y)	Comment
07/08 20:13:00 - 07/09 00:29:24	Fixed (0.0, 0.0)	SOT flat field obs. for 3 orbits

PROG= 08 1-time(s)

Subr= 1 2-time(s) 300.0sec

Seqn= 13 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/thick-Al	Open/thick-Al	close	Safe	Norm	22.6s	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 12 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 11 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 14 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/Ti-poly	close	Safe	Dark	1.00s	Obs	1x1	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

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

Term	Pointing (x, y)	Comment
07/09 00:32:30 - 07/09 02:39:54	Fixed (0.0, 945.0)	coalignment on N limb

PROG= 11 1-time(s)
Subr= 1 1-time(s) 360.0sec
Seqn= 21 24-time(s) 300.0sec

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

XOB #16AD: G-Band Alignment with East limb Q90 2x2 (G-band only) - 8 min cadence-wNGT

Term	Pointing (x, y)	Comment
07/09 02:43:00 - 07/09 04:49:54	Fixed (-945.0, 0.0)	coalignment on E limb

PROG= 12 1-time(s)
Subr= 1 1-time(s) 360.0sec
Seqn= 22 15-time(s) 480.0sec

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

XOB #17EB: AR multifilter- Ti/Poly(384FOV) AEC2_3 Q95, Al-mesh, Ti-poly AEC1, Thick-Al fixed 32, G-band(512FOV) - 2.5min cadence

Term	Pointing (x, y)	Comment
07/09 04:53:00 - 07/09 05:07:30	Fixed (-865.0, 320.0)	AR obs on E limb
07/09 06:13:00 - 07/09 18:03:24	Fixed (-865.0, 320.0)	AR obs on E limb
07/09 18:16:30 - 07/10 05:45:30	Fixed (-865.0, 320.0)	AR obs on E limb
07/10 06:40:31 - 07/10 07:26:00	Fixed (-865.0, 320.0)	AR obs on E limb

PROG= 02 Inf.-time(s)
Subr= 1 1-time(s) 30.0sec
Seqn= 1 1-time(s) 30.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 70 1-time(s) 40.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	125ms	Obs	1x1	512x512 (1024, 1024)	Q=92	1	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	512x512 (1024, 1024)	Q=92	1	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Norm	32.0s	Obs	1x1	512x512 (1024, 1024)	Q=92	0	0	2.0sec

Subr= 2 15-time(s) 150.0sec
Seqn= 71 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	512x512 (1024, 1024)	Q=95	3	0	2.0sec

Seqn= 72 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	512x512 (1024, 1024)	Q=95	2	0	2.0sec

XOB #17E5: Eclipse-Polar Plume - Al/Mesh, Ti/Poly-512x512 -2min cad

Term	Pointing (x, y)	Comment
07/11 18:28:36 - 07/11 18:46:54	Fixed (200.0, 875.0)	eclipse; polar plume in N/S CH

PROG= 05 Inf.-time(s)
Subr= 2 1-time(s) 2.0sec
Seqn= 1 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1024, 1024)	Q=98	0	0	2.0sec

Subr= 1 30-time(s) 120.0sec
Seqn= 65 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	16.0s	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	36.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	32.0s	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	36.0sec

XOB #17E9: Coronal cavity Al/mesh, Ti/poly, G-band-DPCM 2x2-768X768-FOV -AEC2-2min cadence

Term	Pointing (x, y)	Comment
07/11 18:47:30 - 07/11 19:45:00	Fixed (-829.0, 400.0)	eclipse; coronal cavity

PROG= 17 Inf.-time(s)
Subr= 2 1-time(s) 2.0sec
Seqn= 1 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1024, 1024)	Q=98	0	0	2.0sec

Subr= 1 20-time(s) 120.0sec
Seqn= 67 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	1.00s	Obs	2x2	512x512 (1064, 1048)	DPCM	2	0	2.0sec

Seqn= 68 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	512x512 (1064, 1048)	DPCM	2	0	2.0sec

XOB #17E6: Eclipse-AR loops oscillations - Ti/Poly,Thick/Al, G-band-FOV 384x384 (10sec-cad)

Term	Pointing (x, y)	Comment
07/11 20:39:36 - 07/11 21:18:30	Fixed (-300.0, 850.0)	eclipse; AR loops/polar region

PROG= 16 Inf.-time(s)
Subr= 2 1-time(s) 2.0sec
Seqn= 1 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	512x512 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 69 1-time(s) 2.0sec													
Open/thick-Al	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	512x384 (1024, 1024)	Q=98	3	0	2.0sec
Subr= 1 90-time(s) 10.0sec													
Seqn= 66 1-time(s) 4.0sec													
Open/Ti-poly	Open/thick-Be	close	Safe	Norm	250ms	Obs	1x1	512x384 (1024, 1024)	Q=98	3	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

Flare mode

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

Term	Pointing (x, y)	Comment
07/08 10:40:02 - 07/08 10:50:00	Track (852.2, -369.8) @ 07/08 10:37:00	# OP start + 10min, track AR NOAA11084
07/08 10:53:06 - 07/08 17:33:24	Track (852.2, -369.8) @ 07/08 10:37:00	# OP start + 10min, track AR NOAA11084
07/08 18:35:06 - 07/08 19:26:30	Fixed (-865.0, 320.0)	HOP165 (AR obs on E limb)
07/09 04:53:00 - 07/09 05:07:30	Fixed (-865.0, 320.0)	AR obs on E limb
07/09 06:13:00 - 07/09 18:03:24	Fixed (-865.0, 320.0)	AR obs on E limb
07/09 18:16:30 - 07/10 05:45:30	Fixed (-865.0, 320.0)	AR obs on E limb
07/10 06:40:31 - 07/10 07:26:00	Fixed (-865.0, 320.0)	AR obs on E limb
07/11 17:11:36 - 07/11 18:01:30	Fixed (-670.0, -670.0)	eclipse; AR remnant near SE limb
07/11 18:28:36 - 07/11 18:46:54	Fixed (200.0, 875.0)	eclipse; polar plume in N/S CH
07/11 18:47:30 - 07/11 19:45:00	Fixed (-829.0, 400.0)	eclipse; coronal cavity
07/11 20:39:36 - 07/11 21:18:30	Fixed (-300.0, 850.0)	eclipse; AR loops/polar region

PROG= 01 1-time(s)													
Subr= 1 2-time(s) 2.0sec													
Seqn= 9 15-time(s) 20.0sec													
Open/thick-Al	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Seqn= 2 1-time(s) 4.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 2 8-time(s) 2.0sec													
Seqn= 9 15-time(s) 60.0sec													
Open/thick-Al	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Seqn= 2 1-time(s) 4.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 3 25-time(s) 2.0sec													
Seqn= 9 1-time(s) 600.0sec													
Open/thick-Al	Open/thick-Al	close	Safe	Norm	250ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Seqn= 2 1-time(s) 4.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

Active Region Search

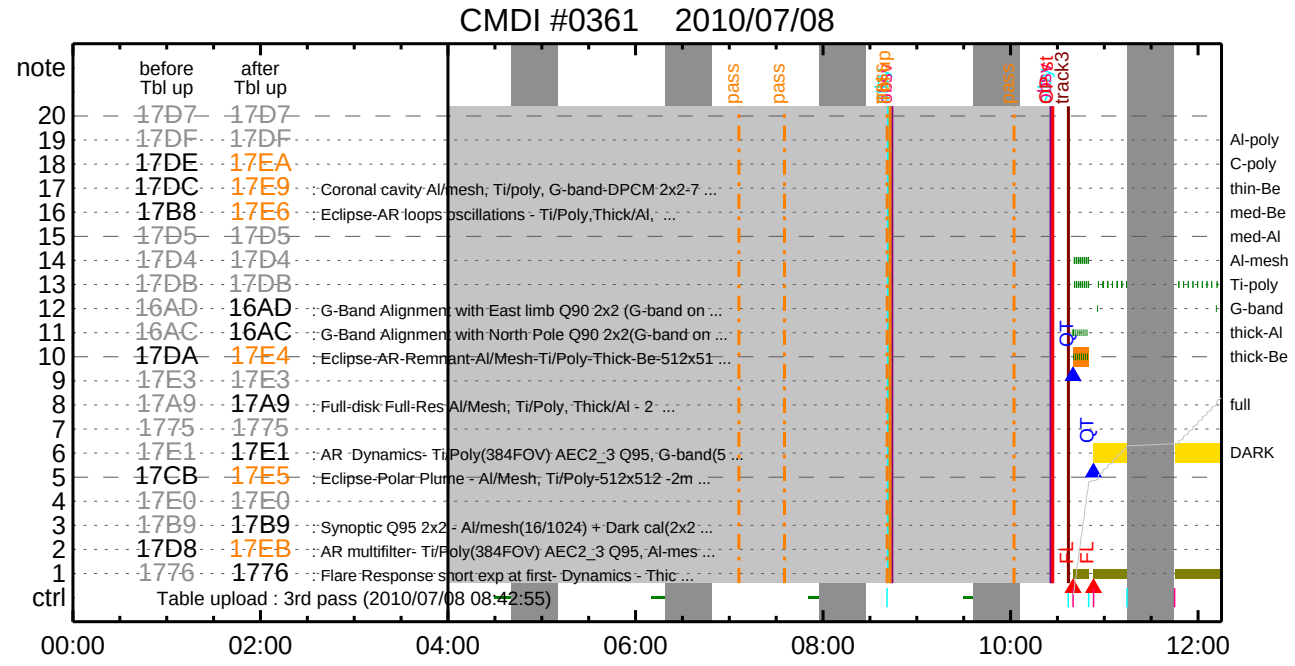
NOT USED

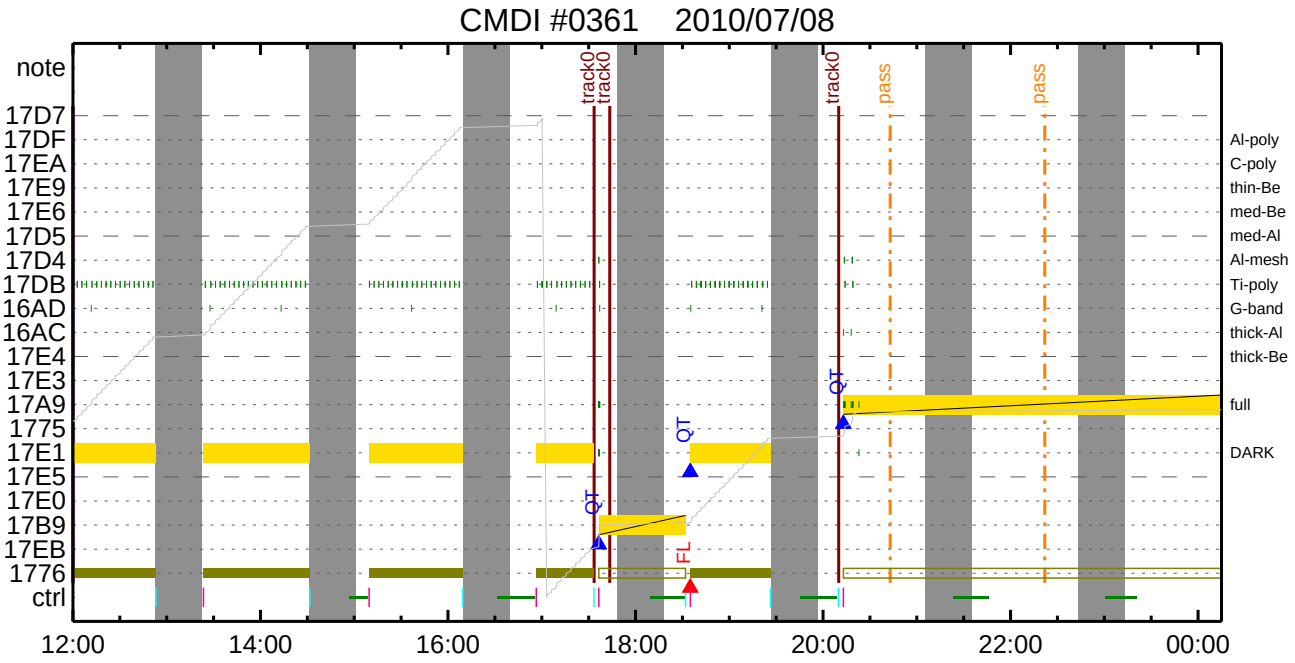
Flare Detection

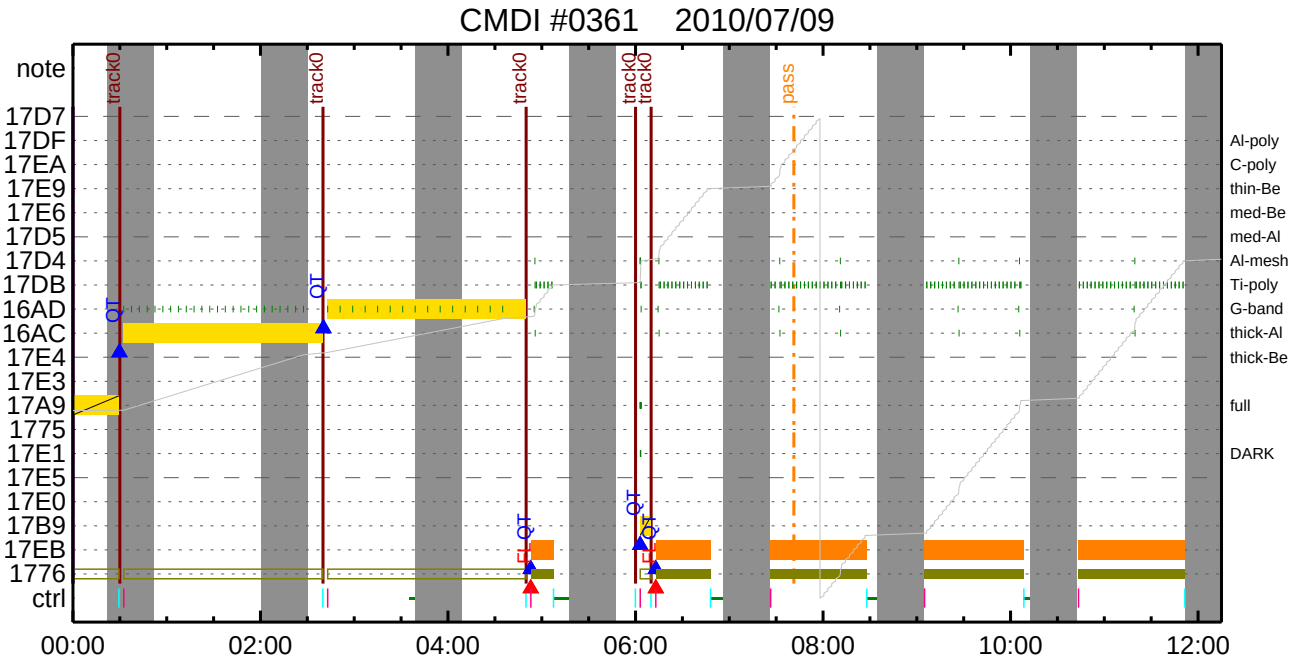
FLD Patrol

Term	Pointing (x, y)	Comment
07/08 10:37:18 - 07/08 17:33:46	Track (852.2, -369.8) @ 07/08 10:37:00	# OP start + 10min, track AR NOAA11084
07/08 18:32:22 - 07/08 20:10:16	Fixed (-865.0, 320.0)	HOP165 (AR obs on E limb)
07/09 04:50:16 - 07/09 06:00:16	Fixed (-865.0, 320.0)	AR obs on E limb
07/09 06:10:16 - 07/09 18:03:46	Fixed (-865.0, 320.0)	AR obs on E limb
07/09 18:13:46 - 07/10 06:30:16	Fixed (-865.0, 320.0)	AR obs on E limb
07/10 06:40:16 - 07/12 09:39:00	Fixed (-865.0, 320.0)	AR obs on E limb

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


CMDI #0361 2010/07/08
note
before Tbl up
after Tbl up
20 17D7 17D7
19 17DF 17DF
18 17DE 17EA
17 17DC 17E9 : Coronal cavity Al/mesh, Ti/poly, G-band-DPCM 2x2-7 ...
16 17B8 17E6 : Eclipse-AR loops oscillations - Ti/Poly,Thick/Al, ...
15 17D5 17D5
14 17D4 17D4
13 17DB 17DB
12 16AD 16AD : G-Band Alignment with East limb Q90 2x2 (G-band on ...
11 16AC 16AC : G-Band Alignment with North Pole Q90 2x2(G-band on ...
10 17DA 17E4 : Eclipse-AR-Remnant-Al/Mesh-Ti/Poly-Thick-Be-512x51 ...
9 17E3 17E3
8 17A9 17A9 : Full-disk Full-Res Al/Mesh, Ti/Poly, Thick/Al - 2 ...
7 1775 1775
6 17E1 17E1 : AR Dynamics- Ti/Poly(384FOV) AEC2_3 Q95, G-band(5 ...
5 17CB 17E5 : Eclipse-Polar Plume - Al/Mesh, Ti/Poly-512x512 -2m ...
4 17E0 17E0
3 17B9 17B9 : Synoptic Q95 2x2 - Al/mesh(16/1024) + Dark cal(2x2 ...
2 17D8 17EB : AR multifilter- Ti/Poly(384FOV) AEC2_3 Q95, Al-mes ...
1 1776 1776 : Flare Response short exp at first- Dynamics - Thic ...
ctrl Table upload : 3rd pass (2010/07/08 08:42:55)
pass
pass
track3
QT
QT
FL
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0361 2010/07/08
note
track0
track0
track0
pass
pass
QT
QT
QT
FL
17D7
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0361 2010/07/09
note
track0
track0
track0
track0
track0
pass
QT
QT
FL
QT
FL
QT
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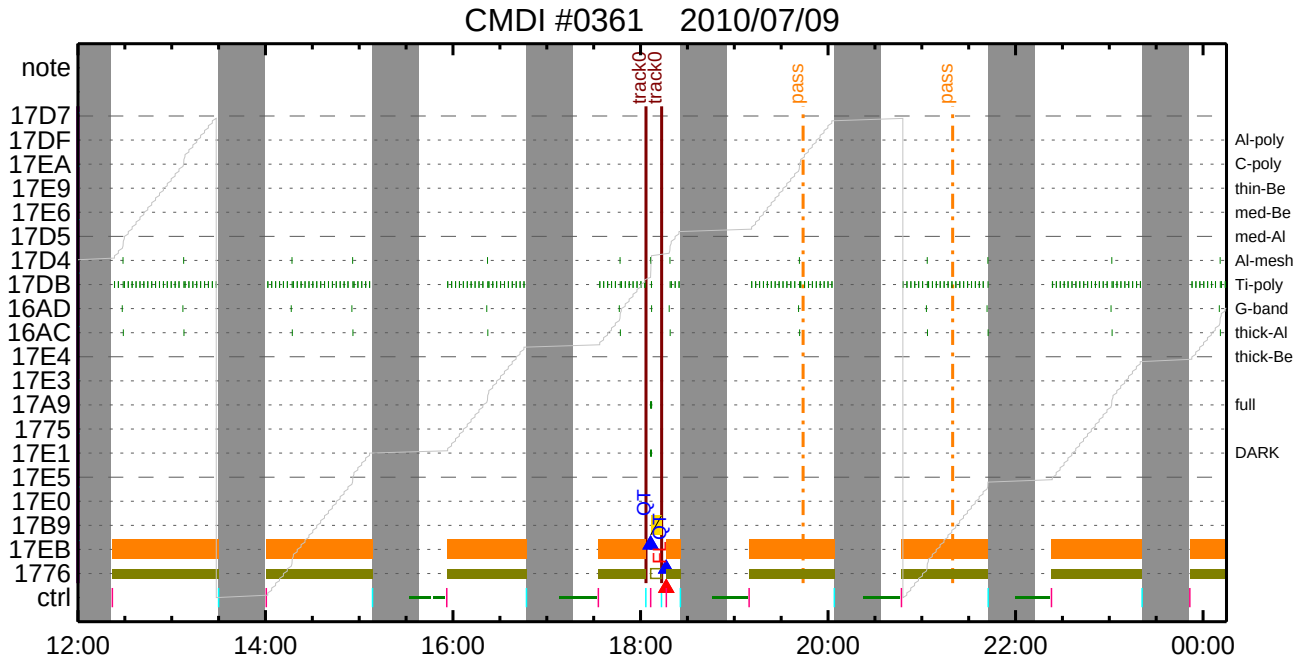
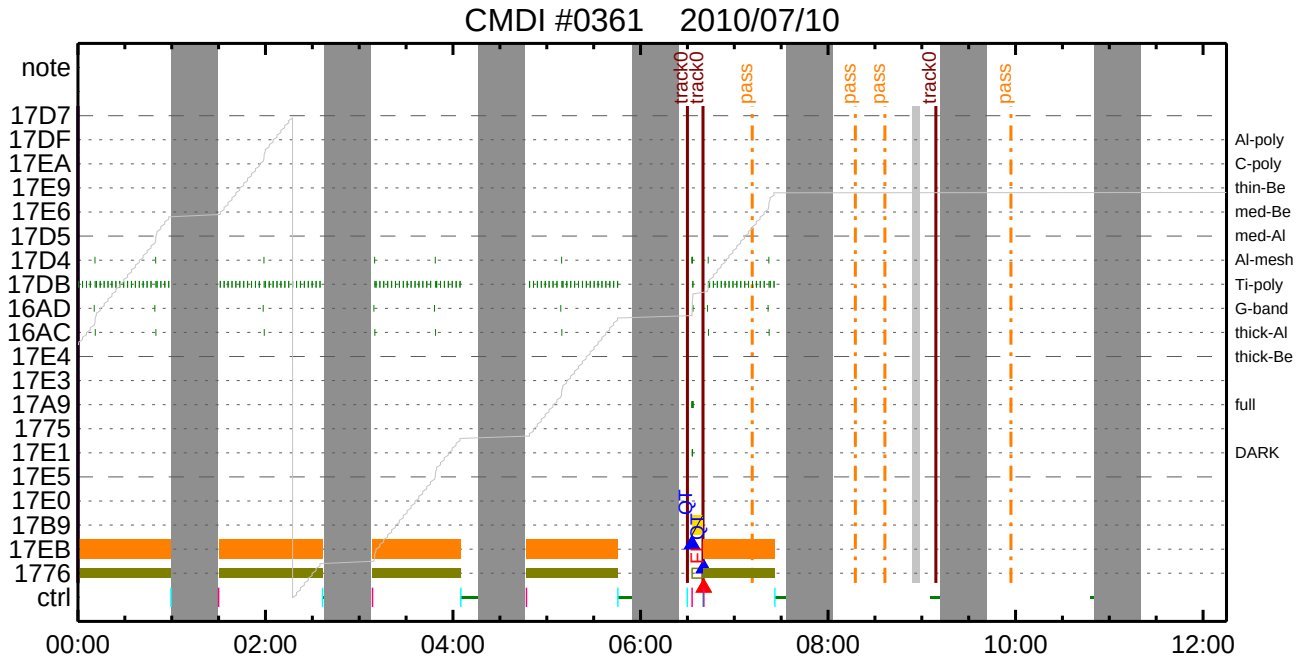
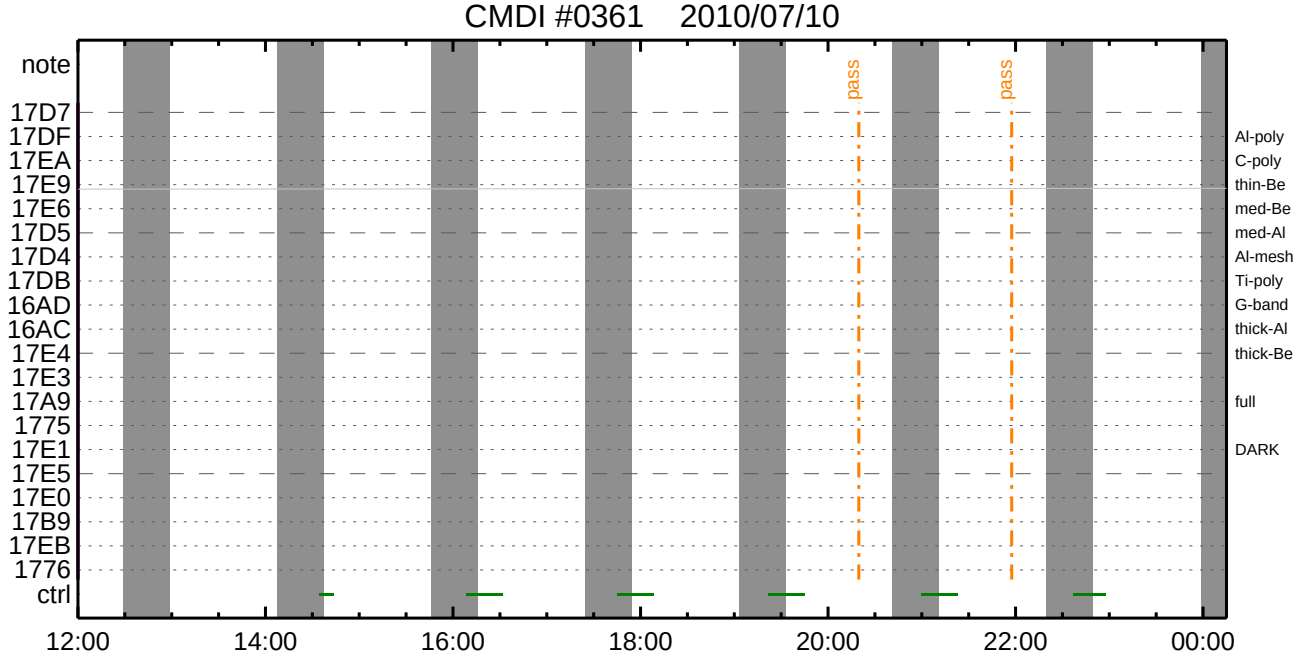
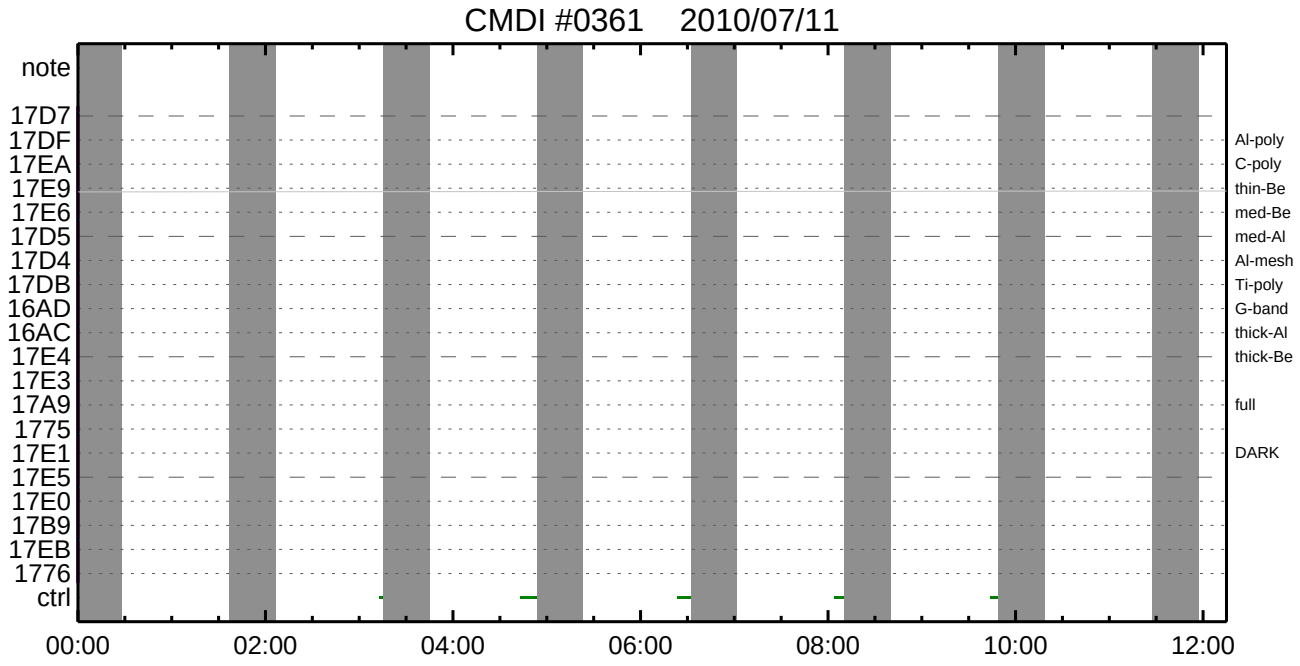
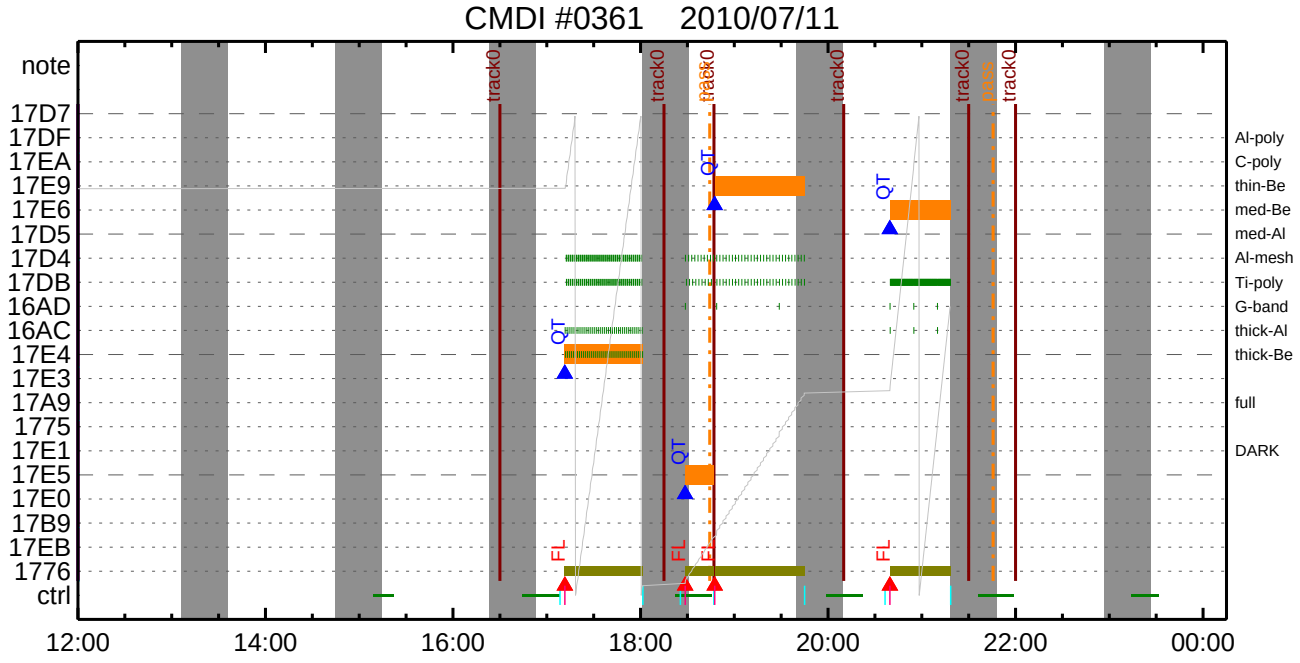
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

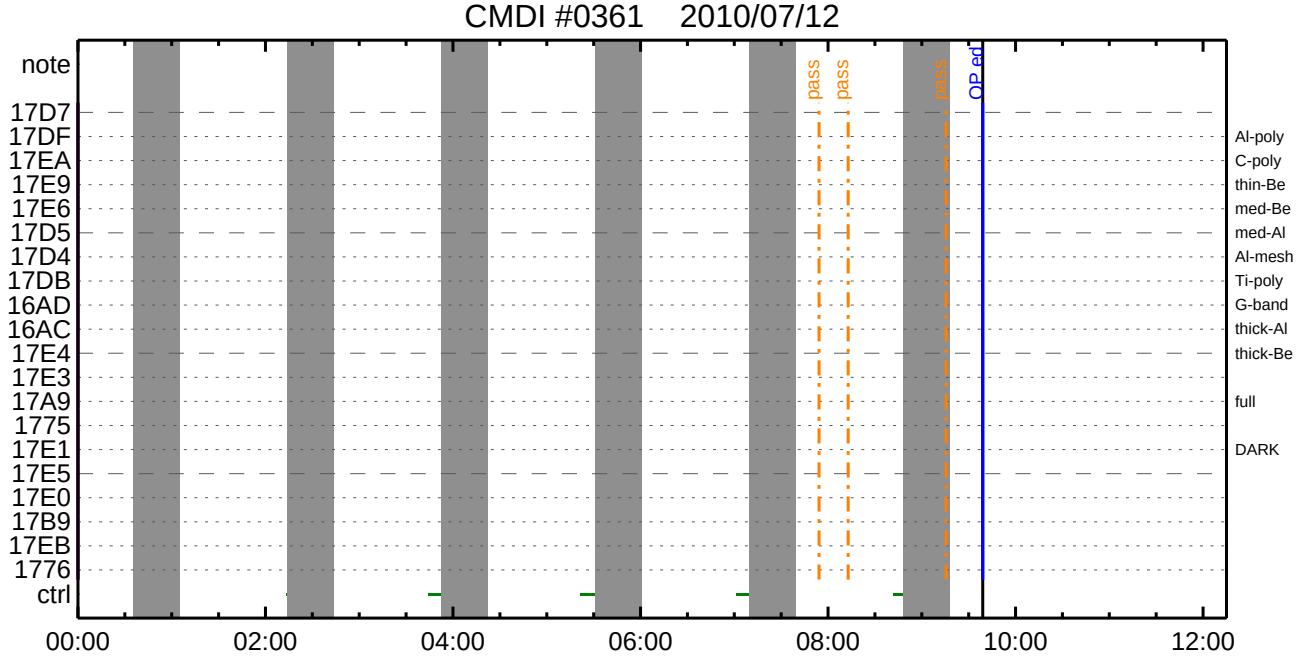

CMDI #0361 2010/07/09
note
17D7
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
track0
track0
pass
pass
QT
QT
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

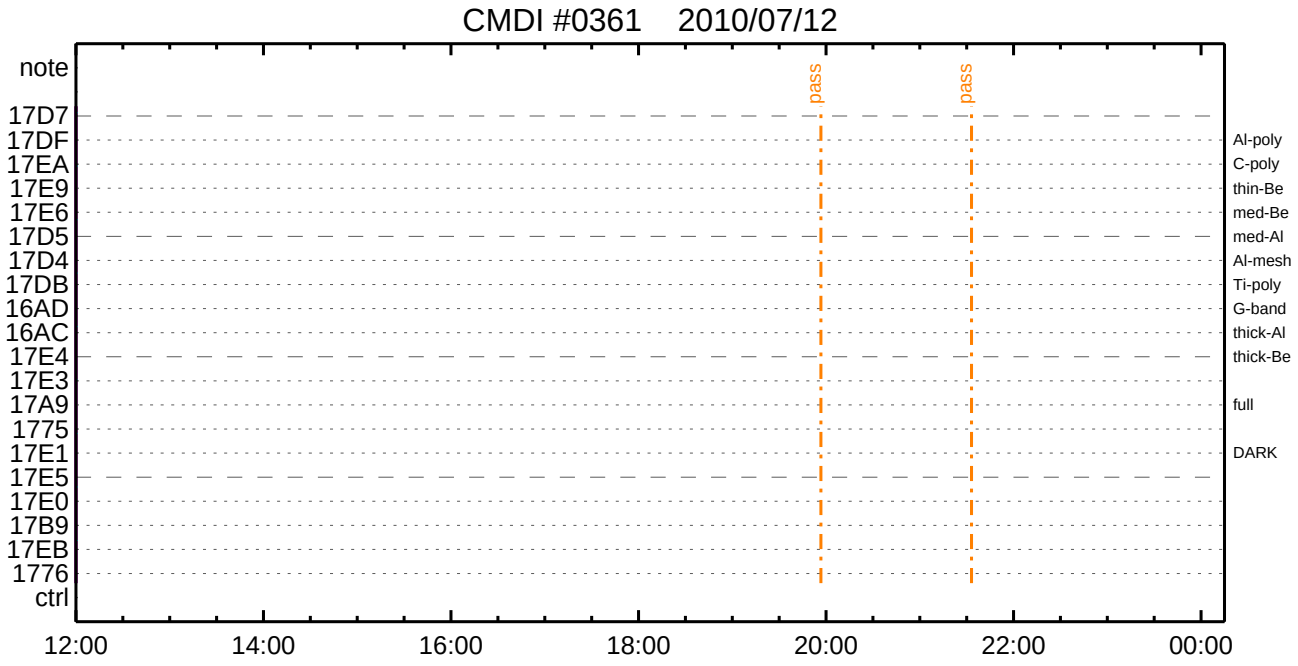

CMDI #0361 2010/07/10
note
17D7
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
track0
track0
pass
pass
pass
track0
pass
QT
QT
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0361 2010/07/10
note
17D7
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0361 2010/07/11
note
17D7
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0361 2010/07/11
note
17D7
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
track0
QT
FL
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0361 2010/07/12
note
17D7
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
pass
OP ed
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0361 2010/07/12
note
17D7
17DF
17EA
17E9
17E6
17D5
17D4
17DB
16AD
16AC
17E4
17E3
17A9
1775
17E1
17E5
17E0
17B9
17EB
1776
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
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20:00
22:00
00:00

```
(a) Spacecraft Operation Procedure (real-commands)

main-454 2010-07-08 13:38:57 289 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ËËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇºÎ»Þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019   +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021   +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023   +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
0037   +. DC 01-29 DHU_S/X_VC4_OFF
0038   +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040   +  DC 06-B3 DR_REP_START
0041   +  DC 01-32 DHU_X_VC4_ON
0042     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0047   +. DC 06-B3 DR_REP_START
0048   +  DC 01-32 DHU_X_VC4_ON
0049     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸å¡¢¢Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÈÀÚÂØ¤äÅ•Äº²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
0063   +. DC 01-29 DHU_S/X_VC4_OFF
0064   +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066   +  DC 06-B3 DR_REP_START
0067   +  DC 01-32 DHU_X_VC4_ON
0068     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Äº²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0073   +. DC 06-B3 DR_REP_START
0074   +  DC 01-32 DHU_X_VC4_ON
0075     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098   . C. ****************************
0099     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0100     C. ****************************
0101     C.
0102   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0103   . S. OP    op-454:OP
0104     ()
0105   . S. OG    og-454:OG
0106     ()
0107     C.
0108   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
0109     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
0110   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111     BC       (20 00 7f 01 02)
0112     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0113     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0114     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0115     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0116     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0117   +. DC 01-22 DHU_MODE_CHNG
0118     BC       (07 0b f8)
0119     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0120     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0121     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0122     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0123     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0124   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0125     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0126   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0127     C.
0128     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
0129   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130     BC       (20 80 7f 01 02)
0131     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0132     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0133     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0134     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0135     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0136   +. DC 01-22 DHU_MODE_CHNG
0137     BC       (07 0b f8)
0138     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0139     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0140     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0141     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0142     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0143   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0144     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0145   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0146     C.
0147     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149     BC       (21 00 41 01 02)
0150     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0151     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0152     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0153     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0154     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0155   +. DC 01-22 DHU_MODE_CHNG
0156     BC       (07 0b f8)
0157     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0158     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0159     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0160     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0161     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0162   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0163     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0164   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0165     C.
0166   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0167     C. DHU¥â¡¼¥É¡Ê¼ý¸¸¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0168   +. DC 01-22 DHU_MODE_CHNG
0169     BC       (02 0a f8)
0170     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     2
0171     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0172     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0173     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0174     C.
0175   . C. ********************************
0176     C. TI-CMD SET (OPOG STOP/COPY/START)
0177     C. ********************************
0178     C.
0179   . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
0180     C.           ¤Þ¤¿¡¢¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
0181     C.
0182   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0183   +. TI 2010-07-08 10:22:00.0
0184     DC 01-B3 DHU_OP_STOP
0185     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0186     C.
0187   +. TI 2010-07-08 10:22:01.0
0188     DC 01-B4 DHU_OP_COPY
0189     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0190     C.
0191   +. TI 2010-07-08 10:22:01.0
0192     DC 01-B5 DHU_OPOG_COPY
0193     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195   +. TI 2010-07-08 10:26:59.5
0196     DC 01-B2 DHU_OP_START
0197     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0198     C.
0199     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
0200     C.                      ¢¢[HK1_TI_CMD_ENA/DIS]          EQ     ENA
0201     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     4
0202     C.                      ¢¢[HK1_NEXT_EXEC_PIM]           EQ     DHU
0203     C.                      ¢¢[HK1_NEXT_EXEC_DC]            EQ     0xB3
0204     C.
0205    . C. ****************************
0206     C. TIÎÎ°è¥À¥ó¥×
0207     C. ****************************
0208     C.
0209     C. TI_TBL(0x03AB00-0x03AEFF¡§ 1024byte)
0210   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211     BC       (03 ab 03 01 02)
0212     C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     07
0213     C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     2B
0214     C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     3
0215     C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0216     C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0217   +. DC 01-22 DHU_MODE_CHNG
0218     BC       (07 0b f8)
0219     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
0220     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0221     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0222     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0223     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0224     C.
0225    . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0226     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0227     C.
0228    . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0229     C.
0230    . C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0231   +. DC 01-22 DHU_MODE_CHNG
0232     BC       (02 0a f8)
0233     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     2
0234     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0235     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0236     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0237     C.
0238     C. ********************************
0239     C.  SOT TI command set
0240     C. ********************************
0241     C. Execute, after the success of OP upload.
0242   +. TI 2010-07-08 10:26:16.0
0243     DC 07-F0 MDP_SOT_MODE_STBY
0244     BC       (41)
0245    . C. ------------------------------------
0246     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0247     C. ------------------------------------
0248     C. ************ SOT END ***********
0249    . C. Stop EIS observation and temporarily disable EIS mode changes
0250     C.
0251     C.
0252     C. ********** Start EIS operation (TI set) **********
0253     C. Execute, after the success of OP upload.
0254     C. Set EIS TI-commands
0255   +. TI 2010-07-08 10:26:30.0
0256     DC 07-FC EIS_MODE_MANU
0257     BC       (21 02)
0258   +. TI 2010-07-08 10:26:40.0
0259     DC 07-FC EIS_MODE_CHG_DIS
0260     BC       (22)
0261    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0262     C. ************ End EIS operation (TI set) ***********
0263     C.
0264     C.
0265     C.
0266     C. ************ XRT START ***********
0267     C. Execute, after the success of OP upload.
0268   +. TI 2010-07-08 10:26:00.0
0269     DC 07-F0 MDP_XRT_MODE_STBY
0270     BC       (c3)
0271    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
0272     C.
0273     C. ************ XRT END ***********
0274     C.
0275    . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0276     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0277    . S. DC-BC dcbc-402:DCBC
0278     (MDP_known_event)
0279     C.
0280     C.
0281    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0282    . S. DC-BC dcbc-153:DCBC
0283     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284     C.
0285     C.
0286    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0287     C.
0288    . C. ********** LOS **********
0289     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-455 2010-07-08 13:38:57 82 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ***** AOCS Commands (Tracking Curve Upload) ******
0015     C. Upload the Orbit Element and the Target Attitude
0016     C. RAM-ID:TARGET_ATT
0017   . S. RAM   ram-150:TARGET_ATT
0018     ()
0019     C.
0020     C.
0021     C. Set the dump memory area of TARGET_ATT
0022  +. DC 02-48 AOCU_DUMP_SET
0023     BC       (07 00 00 00 18 00)
0024     C.
0025     C.    <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026     C.
0027     C.
0028     C. Change the TLMFormatNo for the AOCS Dump Format
0029  +. DC 01-22 DHU_MODE_CHNG
0030     BC       (04 0b f8)
0031     C.
0032     C. Wait for AOCSDUMP to end
0033     C.
0034   . C. Check the dump memory
0035     C.
0036     C.                                      Result = OK [ ]
0037     C.
0038  +. DC 01-22 DHU_MODE_CHNG
0039     BC       (02 0a f8)
0040     C.
0041     C.                          <A_***>[TLM STS] FMT = 2 [ ]
0042     C.
0043  +. DC 02-8E AOCU_ORB_UPD
0044   . C.
0045   . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0046  +. DC 07-FC EIS_MODE_MANU
0047     BC       (21 02)
0048   . C. Verify EIS in MANUAL mode
0049   . C. Estimated OBSTBL upload time is 27s
0050     C. ********************************
0051     C. EIS START OBSTBL LOAD
0052     C. ********************************
0053   . S. RAM   ram-821:EIS_OBSTBL
0054     ()
0055  +. DC 07-FC EIS_DUMP_OBSTBL
0056     BC       (07 07 07 00 00 70 00)
0057     C.
0058     C. Execute, after the success of OBSTBL upload.
0059     C. Set EIS TI-commands
0060  +. TI 2010-07-08 10:26:50.0
0061     DC 07-FC EIS_MODE_CHG_ENA
0062     BC       (20)
0063   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0064     C. ********************************
0065     C. EIS END OBSTBL LOAD
0066     C. ********************************
0067     C.
0068   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0069     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0070   . S. DC-BC dcbc-402:DCBC
0071     (MDP_known_event)
0072     C.
0073     C.
0074   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0075   . S. DC-BC dcbc-153:DCBC
0076     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0077     C.
0078     C.
0079   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0080     C.
0081   . C. *********** LOS ***********
0082     C.
```

```
(a) Spacecraft Operation Procedure (real-commands)

main-456 2010-07-08 13:38:57 224 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇÎ»þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
0018     C.
0019   +. DC 03-B4 TCIA_XPA_ON/HI
0020     M. WAIT_SEC   1
0021   +  DC 03-84 TCIA_XMOD_ON
0022     M. WAIT_SEC   1
0023   +  DC 03-95 TCIA_XMOD_QPSK
0024     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
0037   +. DC 01-29 DHU_S/X_VC4_OFF
0038   +  DC 06-C8 DR_PT1_REP_SEL
0039     BC       (01 00)
0040   +  DC 06-B3 DR_REP_START
0041   +  DC 01-32 DHU_X_VC4_ON
0042     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0047   +. DC 06-B3 DR_REP_START
0048   +  DC 01-32 DHU_X_VC4_ON
0049     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÈÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
0063   +. DC 01-29 DHU_S/X_VC4_OFF
0064   +  DC 06-C8 DR_PT2_REP_SEL
0065     BC       (02 00)
0066   +  DC 06-B3 DR_REP_START
0067   +  DC 01-32 DHU_X_VC4_ON
0068     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0073   +. DC 06-B3 DR_REP_START
0074   +  DC 01-32 DHU_X_VC4_ON
0075     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098     C.
0099     C. ************ XRT START ************
0100     C.
0101  +. DC 07-F0 MDP_XRT_CTRL_MANU
0102     BC       (c1)
0103  +  DC 07-F0 MDP_XRT_MODE_STBY
0104     BC       (c3)
0105   . C. ----------- Success Verify ?              OK / NG____
0106     C.
0107     C. XRT Obs. Table Upload
0108   . S. RAM   ram-291:MDP_OBS_X
0109     ()
0110     C.
0111  +. DC 07-F0 MDP_DUMP_XRTTBL
0112     BC       (84 07 00 00 00 3a d4)
0113   . C. ----------- Comparison Check ?                      OK / ERR ____
0114     C.
0115     C.
0116  +. DC 07-F0 MDP_XRT_ROI_SET
0117     BC       (cd 01 b1 b1 04 04)
0118  +  DC 07-F0 MDP_XRT_ROI_SET
0119     BC       (cd 02 b1 b1 08 08)
0120  +  DC 07-F0 MDP_XRT_ROI_SET
0121     BC       (cd 03 b1 b1 08 08)
0122  +  DC 07-F0 MDP_XRT_ROI_SET
0123     BC       (cd 04 b1 b1 06 06)
0124  +  DC 07-F0 MDP_XRT_ROI_SET
0125     BC       (cd 06 80 80 08 08)
0126  +  DC 07-F0 MDP_XRT_ROI_SET
0127     BC       (cd 07 85 83 08 08)
0128  +  DC 07-F0 MDP_XRT_ROI_SET
0129     BC       (cd 08 80 80 08 06)
0130  +  DC 07-F0 MDP_XRT_ROI_SET
0131     BC       (cd 09 80 80 20 20)
0132  +  DC 07-F0 MDP_XRT_ROI_SET
0133     BC       (cd 0a 80 80 20 08)
0134  +  DC 07-F0 MDP_XRT_ROI_SET
0135     BC       (cd 0b 80 80 08 20)
0136  +  DC 07-F0 MDP_XRT_ROI_SET
0137     BC       (cd 0c 80 60 20 18)
0138  +  DC 07-F0 MDP_XRT_ROI_SET
0139     BC       (cd 0d a0 80 18 20)
0140  +  DC 07-F0 MDP_XRT_ROI_SET
0141     BC       (cd 0e 80 80 0c 0c)
0142  +  DC 07-F0 MDP_XRT_ROI_SET
0143     BC       (cd 0f 80 80 06 06)
0144  +  DC 07-F0 MDP_XRT_AEC_RESET
0145     BC       (d0)
0146   . C. ---------- Success Verify ?           OK / NG ____
0147     C.
0148     C.
0149   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0150     C.
0151  +. DC 07-F0 MDP_XRT_MODE_OBSV
0152     BC       (c2)
0153  +. TI 2010-07-08 10:26:02.0
0154     DC 07-F0 MDP_XRT_MODE_OBSV
0155     BC       (c2)
0156   . C. ---------- Success Verify ?           OK / NG ____
0157     C.
0158     C. ************ XRT END ***********
0159   . C. ********************************
0160     C.  SOT table upload
0161     C. ********************************
0162   . C. < Stop FG table >
0163  +. DC 07-F0 MDP_FG_CTRL_MANU
0164     BC       (51)
0165   . C. ------------------------------------
0166     C.  MDP_FG_CTRL_MODE      = MANU    [ ]
0167     C. ------------------------------------
0168     C.
0169   . C. <Upload FG Observation Table>
0170   . S. RAM   ram-268:MDP_OBS_F
0171     ()
0172     C.
0173   . C. < Dump RAMID=MDP_OBS_F >
0174  +. DC 07-F0 MDP_DUMP_FGTBL
0175     BC       (82 07 00 00 00 38 b8)
0176     C. ------------------------------------
0177     C.  MDP_OBS_F verify = OK/NG        [ ]
0178     C. ------------------------------------
0179     C.
0180   . C. < Stop SP table >
0181  +. DC 07-F0 MDP_SP_CTRL_MANU
0182     BC       (61)
0183     C. ------------------------------------
0184     C.  MDP_SP_CTRL_MODE      = MANU    [ ]
0185     C. ------------------------------------
0186     C.
0187   . C. <Upload SP Observation Table>
0188   . S. RAM   ram-289:MDP_OBS_S
0189     ()
0190     C.
0191   . C. < Dump RAMID=MDP_OBS_S >
0192  +. DC 07-F0 MDP_DUMP_SPTBL
0193     BC       (83 07 00 00 00 38 b8)
```

```
0194     C. ------------------------------------
0195     C.  MDP_OBS_S verify = OK/NG        [ ]
0196     C. ------------------------------------
0197     C.
0198     C. ********************************
0199     C.  SOT TI command set
0200     C. ********************************
0201     C. Execute, after the success of TBL upload.
0202  +. TI 2010-07-08 10:26:18.0
0203     DC 07-F0 MDP_SOT_MODE_OBSV
0204     BC       (40)
0205   . C. ------------------------------------
0206     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0207     C. ------------------------------------
0208     C.
0209     C.
0210   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0211     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0212   . S. DC-BC dcbc-402:DCBC
0213     (MDP_known_event)
0214     C.
0215     C.
0216   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0217   . S. DC-BC dcbc-153:DCBC
0218     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0219     C.
0220     C.
0221   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0222     C.
0223   . C. ********** LOS **********
0224     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-457 2010-07-08 13:38:57 29 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007  +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011  +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014     C.
0015   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0016     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0017   . S. DC-BC dcbc-402:DCBC
0018     (MDP_known_event)
0019     C.
0020     C.
0021   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0022   . S. DC-BC dcbc-153:DCBC
0023     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0024     C.
0025     C.
0026   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0027     C.
0028   . C. *********** LOS ***********
0029     C.
```

```
*** OP Sequence for XRT ***

2010/07/08  10:36:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  10:36:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/08  10:37:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 03 00 00 00 00
2010/07/08  10:37:16.0  XRT_AEC_RESET_410_OG [0x19a]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2010/07/08  10:37:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/08  10:37:20.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/08  10:37:22.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/08  10:37:24.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/08  10:39:58.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2010/07/08  10:40:00.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/08  10:40:02.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/08  10:50:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  10:50:02.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/08  10:50:22.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/08  10:50:24.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/08  10:50:26.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/08  10:50:28.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/08  10:53:02.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 06
2010/07/08  10:53:04.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/08  10:53:06.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/08  11:14:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  11:44:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/08  11:45:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/08  12:53:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  13:22:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/08  13:23:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/08  14:31:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  15:08:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/08  15:09:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/08  16:09:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  16:55:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/08  16:56:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/08  17:33:24.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  17:33:26.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/08  17:33:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2010/07/08  17:33:46.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/08  17:33:48.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/08  17:33:50.0  XRT_ARS_DIS_404_OG [0x194]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/08  17:36:28.0  XRT_QT_PROG_SET_407_OG [0x197]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2010/07/08  17:36:30.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/08  17:43:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 e3 8e 4c e5
2010/07/08  18:32:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  18:32:02.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/08  18:32:22.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/08  18:32:24.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/08  18:32:26.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/08  18:32:28.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/08  18:35:02.0  XRT_QT_PROG_SET_426_OG [0x1aa]
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                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 06
2010/07/08  18:35:04.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/08  18:35:06.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/08  19:26:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  20:09:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/08  20:09:56.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/08  20:10:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2010/07/08  20:10:16.0  XRT_FLD_DIS_402_OG [0x192]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/08  20:10:18.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/08  20:10:20.0  XRT_ARS_DIS_404_OG [0x194]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/08  20:12:58.0  XRT_QT_PROG_SET_441_OG [0x1b9]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 08
2010/07/08  20:13:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  00:29:24.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  00:29:26.0  XRT_FOCUS_POSITION_429_OG [0x1ad]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/09  00:29:46.0  XRT_QT_PROG_SET_415_OG [0x19f]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0b
2010/07/09  00:29:48.0  XRT_ARS_DIS_404_OG [0x194]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/09  00:30:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                    AOCU_NM              5 02-76 00 ac 00 00 00
2010/07/09  00:32:26.0  XRT_FLD_DIS_427_OG [0x1ab]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/09  00:32:28.0  XRT_FLRCTRL_DIS_428_OG [0x1ac]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/09  00:32:30.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  02:39:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  02:39:56.0  XRT_FOCUS_POSITION_429_OG [0x1ad]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/09  02:40:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 00 00 00 54 00
2010/07/09  02:40:16.0  XRT_QT_PROG_SET_405_OG [0x195]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0c
2010/07/09  02:40:18.0  XRT_ARS_DIS_404_OG [0x194]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/09  02:42:56.0  XRT_FLD_DIS_427_OG [0x1ab]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/09  02:42:58.0  XRT_FLRCTRL_DIS_428_OG [0x1ac]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/09  02:43:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  04:49:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  04:49:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/09  04:50:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM              5 02-76 00 e3 8e 4c e5
2010/07/09  04:50:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/09  04:50:18.0  XRT_FLD_RESET_412_OG [0x19c]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/09  04:50:20.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/09  04:50:22.0  XRT_ARS_DIS_420_OG [0x1a4]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/09  04:52:56.0  XRT_QT_PROG_SET_424_OG [0x1a8]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2010/07/09  04:52:58.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/09  04:53:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  05:07:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  05:59:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  05:59:56.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/09  06:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2010/07/09  06:00:16.0  XRT_FLD_DIS_402_OG [0x192]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/09  06:00:18.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/09  06:00:20.0  XRT_ARS_DIS_404_OG [0x194]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/09  06:02:58.0  XRT_QT_PROG_SET_407_OG [0x197]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2010/07/09  06:03:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
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2010/07/09  06:09:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  06:09:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/09  06:10:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 e3 8e 4c e5
2010/07/09  06:10:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/09  06:10:18.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/09  06:10:20.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/09  06:10:22.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/09  06:12:56.0  XRT_QT_PROG_SET_424_OG [0x1a8]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2010/07/09  06:12:58.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/09  06:13:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  06:48:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  07:25:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  07:26:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  08:28:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  09:04:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  09:05:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  10:08:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  10:42:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  10:43:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  11:51:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  12:21:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  12:22:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  13:30:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  13:59:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  14:00:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  15:08:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  15:55:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  15:56:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  16:47:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  17:32:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  17:33:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  18:03:24.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  18:03:26.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/09  18:03:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2010/07/09  18:03:46.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/09  18:03:48.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/09  18:03:50.0  XRT_ARS_DIS_404_OG [0x194]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/09  18:06:28.0  XRT_QT_PROG_SET_407_OG [0x197]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2010/07/09  18:06:30.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  18:13:24.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  18:13:26.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/09  18:13:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 e3 8e 4c e5
2010/07/09  18:13:46.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/09  18:13:48.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/09  18:13:50.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/09  18:13:52.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/09  18:16:26.0  XRT_QT_PROG_SET_424_OG [0x1a8]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2010/07/09  18:16:28.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/09  18:16:30.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  18:25:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
```

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2010/07/09  19:08:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  19:09:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  20:04:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  20:46:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  20:47:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  21:42:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  22:22:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  22:23:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/09  23:21:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/09  23:50:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/09  23:51:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/10  00:59:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/10  01:29:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/10  01:30:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/10  02:36:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/10  03:07:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/10  03:08:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/10  04:05:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/10  04:46:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/10  04:47:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/10  05:45:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/10  06:29:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/10  06:29:56.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/10  06:30:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2010/07/10  06:30:16.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/10  06:30:18.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/10  06:30:20.0  XRT_ARS_DIS_404_OG [0x194]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/10  06:32:58.0  XRT_QT_PROG_SET_407_OG [0x197]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2010/07/10  06:33:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/10  06:39:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/10  06:39:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/10  06:40:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 e3 8e 4c e5
2010/07/10  06:40:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/10  06:40:18.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/10  06:40:20.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/10  06:40:22.0  XRT_ROI_A_444_OG [0x1bc]
                                MDP_XRT_ROI_SET      6 07-F0 cd 06 80 80 08 08
                                MDP_XRT_ROI_SET      6 07-F0 cd 07 80 80 0c 0c
                                MDP_XRT_ROI_SET      6 07-F0 cd 08 80 80 06 06
                                MDP_XRT_ROI_SET      6 07-F0 cd 0f 80 80 06 06
2010/07/10  06:40:27.0  XRT_QT_PROG_SET_424_OG [0x1a8]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 02
2010/07/10  06:40:29.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/10  06:40:31.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/10  07:26:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/10  09:09:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2010/07/11  16:30:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                AOCU_NM              5 02-76 00 3b 8d 3b 8d
2010/07/11  17:08:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/11  17:08:32.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/11  17:08:52.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/11  17:08:54.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/11  17:08:56.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/11  17:08:58.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/11  17:11:32.0  XRT_QT_PROG_SET_436_OG [0x1b4]
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                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2010/07/11  17:11:34.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/11  17:11:36.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/11  18:01:30.5  XRT_CTRL_MANU_408_OG [0x198]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/11  18:15:00.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                    AOCU_NM              5 02-76 00 b2 36 ee 36
2010/07/11  18:25:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/11  18:25:32.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/11  18:25:52.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/11  18:25:54.0  XRT_FLD_RESET_412_OG [0x19c]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/11  18:25:56.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/11  18:25:58.0  XRT_ARS_DIS_420_OG [0x1a4]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/11  18:28:32.0  XRT_QT_PROG_SET_432_OG [0x1b0]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2010/07/11  18:28:34.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/11  18:28:36.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/11  18:46:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/11  18:46:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/11  18:47:00.0  AOCS_ORe-point_Start_8_OG [0x09e]
                                    AOCU_NM              5 02-76 00 dc 73 49 b2
2010/07/11  18:47:16.0  XRT_AEC_RESET_410_OG [0x19a]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2010/07/11  18:47:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/11  18:47:20.0  XRT_FLD_RESET_412_OG [0x19c]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/11  18:47:22.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/11  18:47:24.0  XRT_ARS_DIS_435_OG [0x1b3]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/11  18:47:26.0  XRT_QT_PROG_SET_422_OG [0x1a6]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2010/07/11  18:47:28.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/11  18:47:30.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/11  19:45:00.5  XRT_CTRL_MANU_408_OG [0x198]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/11  20:10:00.0  AOCS_ORe-point_Start_9_OG [0x09f]
                                    AOCU_NM              5 02-76 00 b4 73 1a a7
2010/07/11  20:36:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/11  20:36:32.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/11  20:36:52.0  XRT_AEC_RESET_410_OG [0x19a]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2010/07/11  20:36:54.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/11  20:36:56.0  XRT_FLD_RESET_412_OG [0x19c]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/11  20:36:58.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/11  20:37:00.0  XRT_ARS_DIS_431_OG [0x1af]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/11  20:39:32.0  XRT_QT_PROG_SET_439_OG [0x1b7]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2010/07/11  20:39:34.0  XRT_FL_PROG_SET_416_OG [0x1a0]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 01
2010/07/11  20:39:36.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/11  21:18:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/11  21:30:00.0  AOCS_ORe-point_Start_10_OG [0x0a0]
                                    AOCU_NM              5 02-76 00 19 db 20 b4
2010/07/11  22:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
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