XRT Timeline to be uploaded on 2009/06/11

Period: 2009/06/11 10:27:00 - 2009/06/13 10:34:00

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

XOB #16C1: XBP Al/poly (AEC1) Thin-Be (AEC0)-FOV384-90s

Term	Pointing (x, y)	Comment
06/11 10:42:08 - 06/11 17:59:54	Track (357.9, 364.5) @ 06/11 10:37:00	# OP start + 10min, HOP 120, SUNRISE. Track AR 11020.

PROG= 19 Inf.-time(s)

Subr= 1 30-time(s) 120.0sec

Seqn= 16 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	11.3s	Obs	1x1	384x384 (1024, 1024)	DPCM	1	0	2.0sec

Seqn= 86 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
thin-Be/Open	med-Be/Open	close	Safe	Norm	32.0s	Obs	1x1	384x384 (1024, 1024)	DPCM	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 92 1-time(s) 4.0sec

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 #166D: Synoptic Q95 2x2 - Al/poly(181/2048) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(256/4096) + G-band(16)

Term	Pointing (x, y)	Comment
06/11 18:03:00 - 06/11 18:21:30	Fixed (0.0, 0.0)	synoptic at 18:00:00 UT, and then disk center pointing with SUNRISE over 18:45 - 06:57 UT.

PROG= 11 1-time(s)

Subr= 1 1-time(s) 12.0sec

Seqn= 14 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 7 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

Seqn= 21 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	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 92 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 #16C3: XBP C/poly (AEC1) Thin-Be (AEC0) -G-band-Synoptic-Q95-FOV384-3min

Term	Pointing (x, y)	Comment
06/11 19:07:08 - 06/12 05:39:30	Fixed (0.0, 0.0)	synoptic at 18:00:00 UT, and then disk center pointing with SUNRISE over 18:45 - 06:57 UT.
06/12 06:39:02 - 06/12 06:56:54	Fixed (-20.0, 593.0)	# SUNRISE pointing in N.
06/12 07:00:02 - 06/12 07:20:01	Fixed (-20.0, 643.0)	*New SUNRISE pointing.
06/12 08:08:02 - 06/12 10:41:30	Track (510.2, 363.9) @ 06/12 08:04:00	* Track AR.

PROG= 14 Inf.-time(s)

Subr= 1 15-time(s) 180.0sec

Seqn= 75 1-time(s) 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
C-poly/Open	thin-Be/Open	close	Safe	Norm	11.3s	Obs	1x1	384x384 (1024, 1024)	DPCM	1	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	22.6s	Obs	1x1	384x384 (1024, 1024)	DPCM	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 92 1-time(s) 4.0sec

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

Seqn= 14 1-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

XOB #16BA: Synoptic Q95 2x2 - Al/mesh(256/2897) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(181/2048) + G-band(16)

Term	Pointing (x, y)	Comment
06/12 06:29:00 - 06/12 06:35:54	Fixed (0.0, 0.0)	synoptic, shifted 26.0 min

PROG= 01 1-time(s)

Subr= 1 1-time(s) 12.0sec

Seqn= 18 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	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 7 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

Seqn= 68 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/thick-Al	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Seqn= 92 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

* * * * * **Flare mode** * * * * *

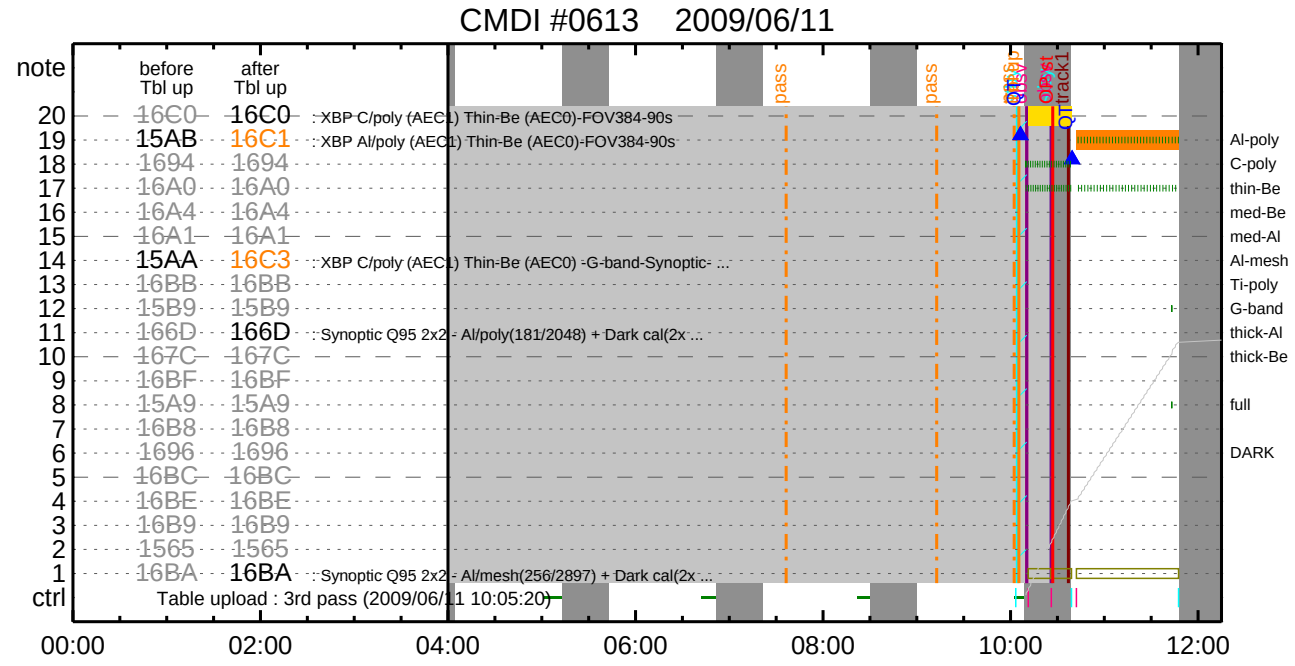
NOT USED

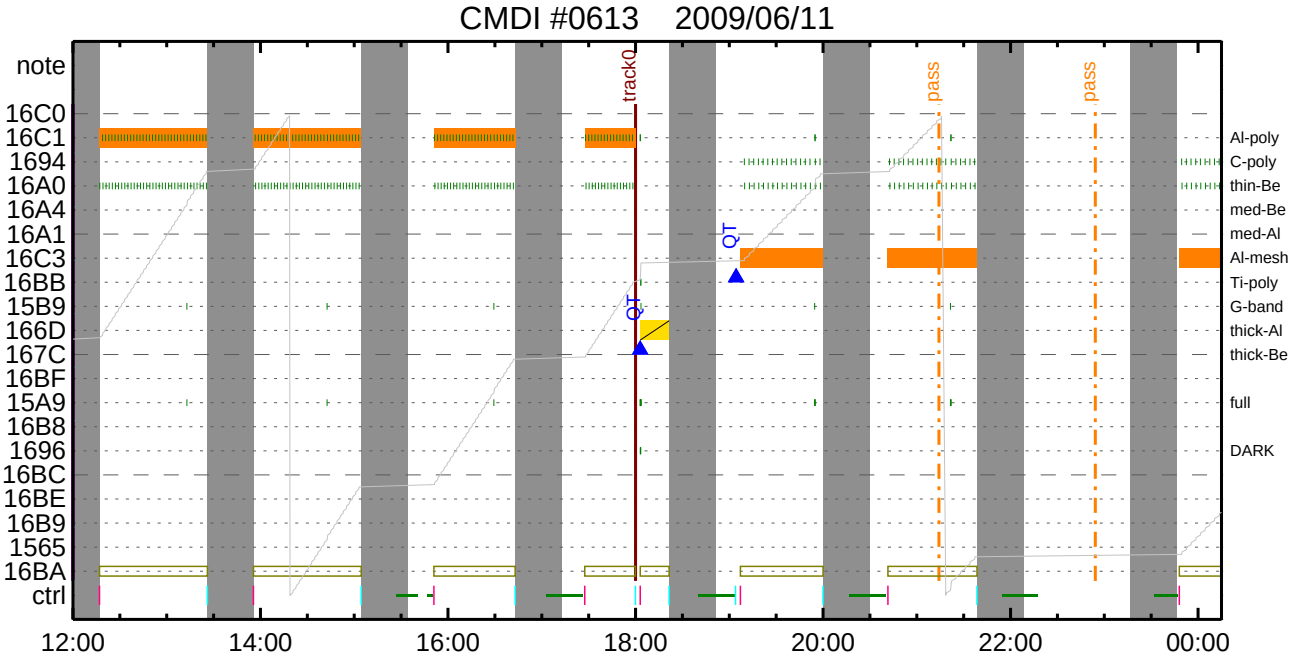
* * * * * **Active Region Search** * * * * *

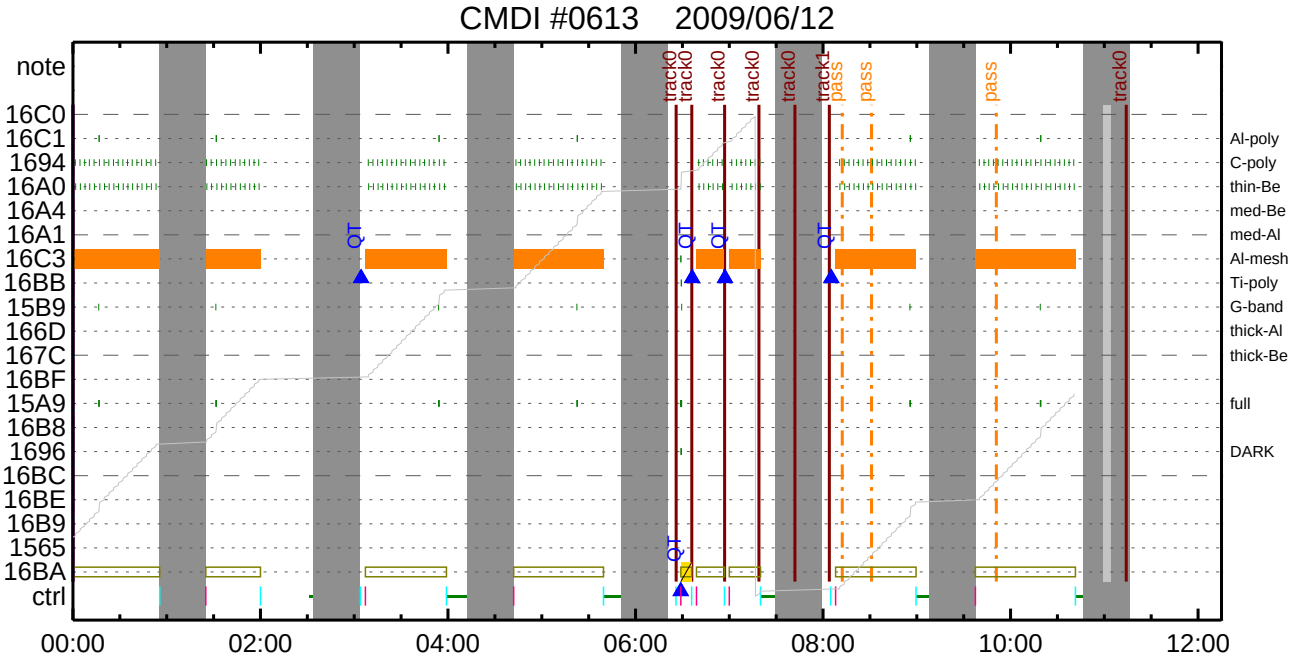
NOT USED

* * * * * **Flare Detection** * * * * *

NOT USED


CMDI #0613 2009/06/11
note
before Tbl up
after Tbl up
20 16C0 16C0 : XBP C/poly (AEC1) Thin-Be (AEC0)-FOV384-90s
19 15AB 16C1 : XBP Al/poly (AEC1) Thin-Be (AEC0)-FOV384-90s
18 1694 1694
17 16A0 16A0
16 16A4 16A4
15 16A1 16A1
14 15AA 16C3 : XBP C/poly (AEC1) Thin-Be (AEC0) -G-band-Synoptic- ...
13 16BB 16BB
12 15B9 15B9
11 166D 166D : Synoptic Q95 2x2 - Al/poly(181/2048) + Dark cal(2x ...
10 167C 167C
9 16BF 16BF
8 15A9 15A9
7 16B8 16B8
6 1696 1696
5 16BC 16BC
4 16BE 16BE
3 16B9 16B9
2 1565 1565
1 16BA 16BA : Synoptic Q95 2x2 - Al/mesh(256/2897) + Dark cal(2x ...
ctrl Table upload : 3rd pass (2009/06/11 10:05:20)
pass
pass
QT
track1
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 #0613 2009/06/11
note
16C0
16C1
1694
16A0
16A4
16A1
16C3
16BB
15B9
166D
167C
16BF
15A9
16B8
1696
16BC
16BE
16B9
1565
16BA
ctrl
track0
pass
pass
QT
QT
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 #0613 2009/06/12
note
16C0
16C1
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16A0
16A4
16A1
16C3
16BB
15B9
166D
167C
16BF
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16B8
1696
16BC
16BE
16B9
1565
16BA
ctrl
track0
track0
track0
track0
track0
track1
pass
pass
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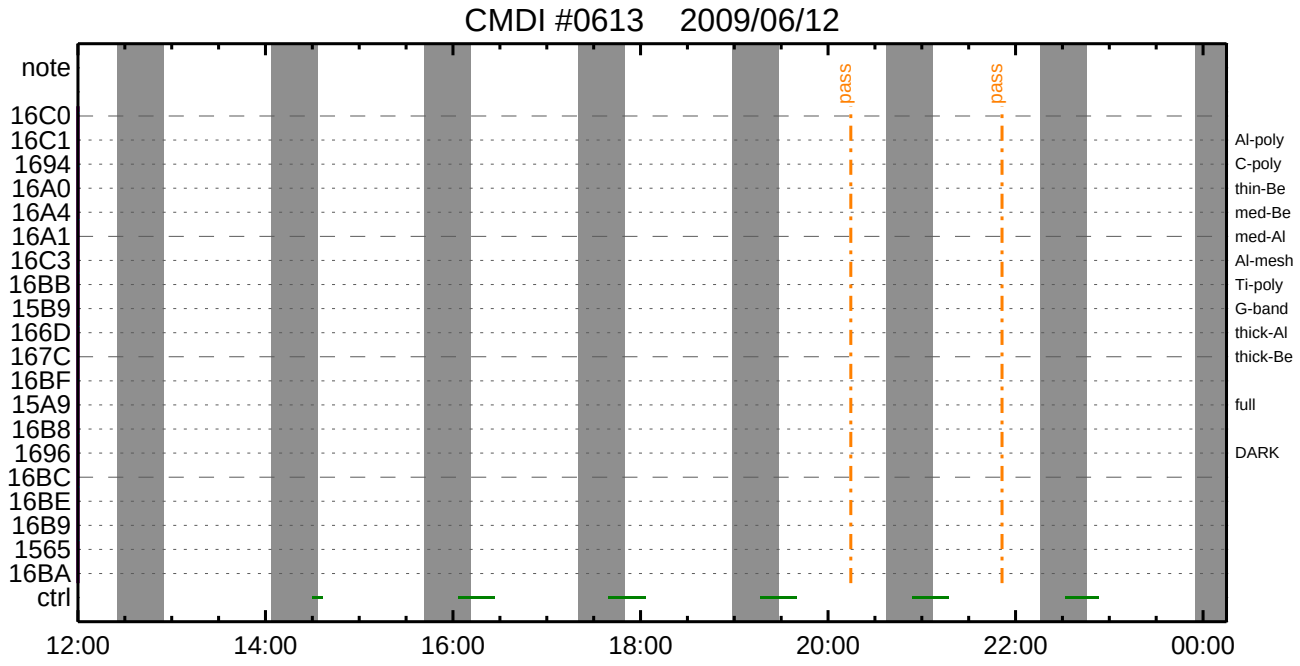
track0
QT
QT
QT
QT
QT
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0613 2009/06/12
note
16C0
16C1
1694
16A0
16A4
16A1
16C3
16BB
15B9
166D
167C
16BF
15A9
16B8
1696
16BC
16BE
16B9
1565
16BA
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
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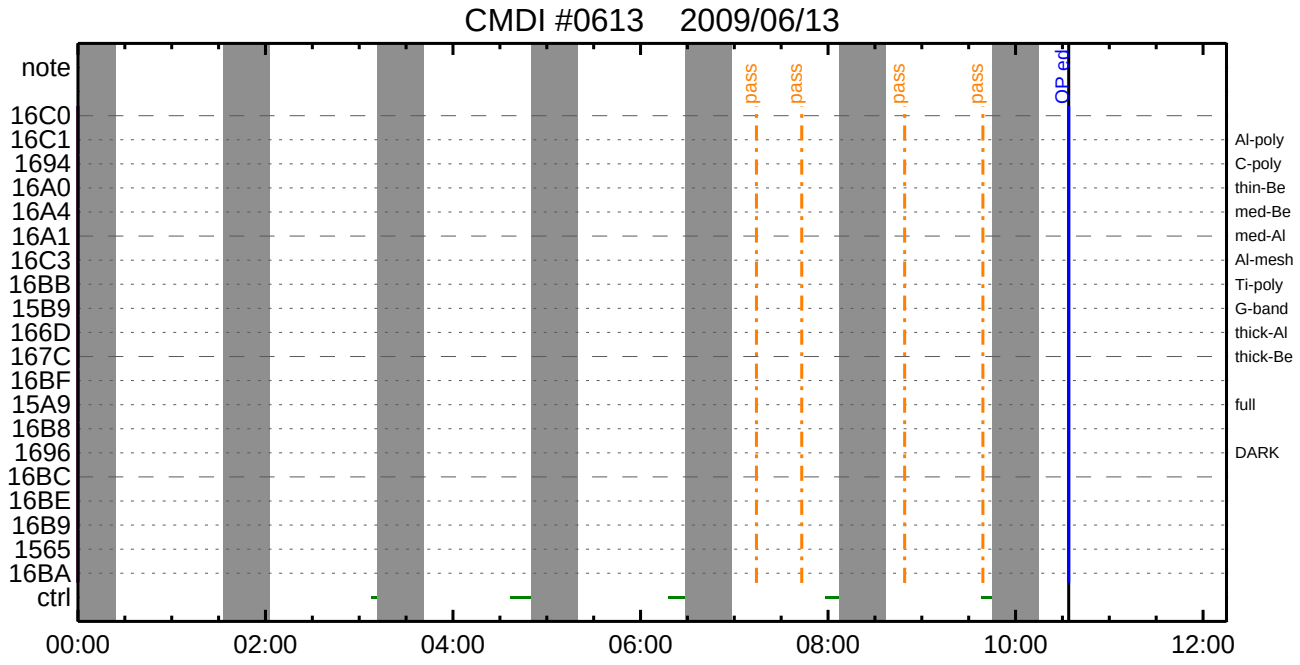
CMDI #0613 2009/06/13
note
16C0
16C1
1694
16A0
16A4
16A1
16C3
16BB
15B9
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167C
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ctrl
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Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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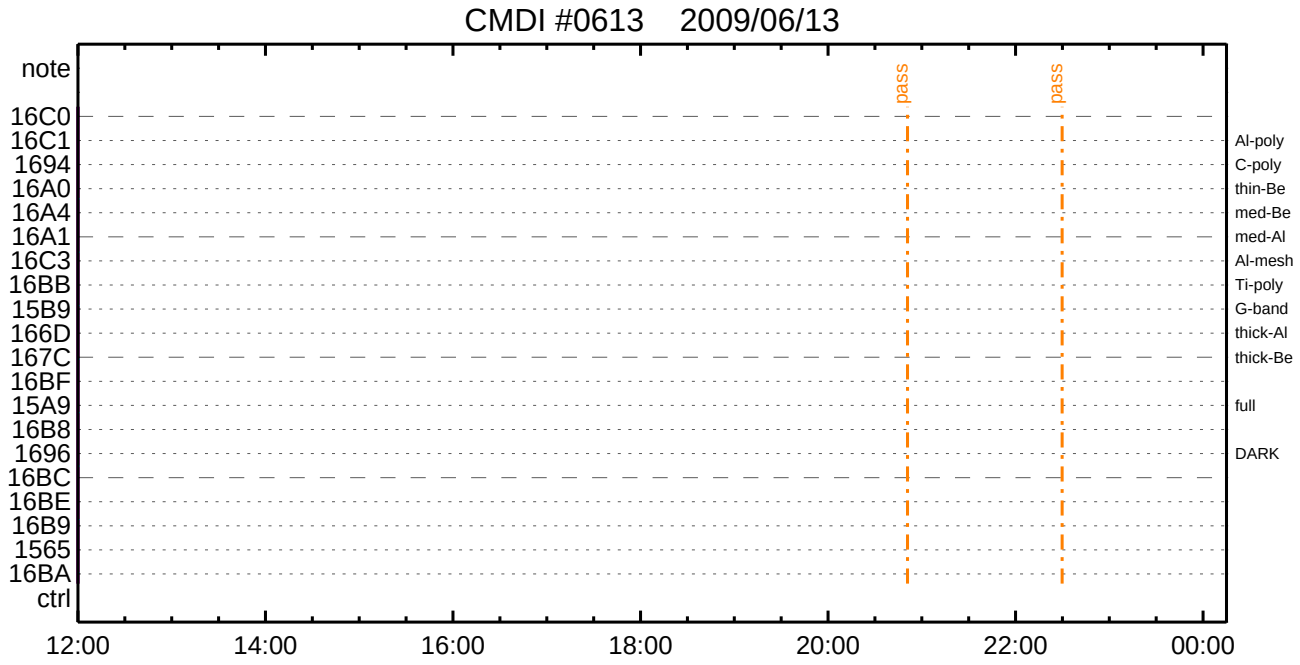
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0613 2009/06/13
note
16C0
16C1
1694
16A0
16A4
16A1
16C3
16BB
15B9
166D
167C
16BF
15A9
16B8
1696
16BC
16BE
16B9
1565
16BA
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

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

main-650 2009-06-11 14:16:16 289 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¤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•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-650:OP
0104     ()
0105   . S. OG    og-650: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¥¿¼Ç¹Ô¤¦¤³¤È¡£
0181     C.
0182   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0183   +. TI 2009-06-11 10:22:00.0
0184     DC 01-B3 DHU_OP_STOP
0185     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0186     C.
0187   +. TI 2009-06-11 10:22:01.0
0188     DC 01-B4 DHU_OP_COPY
0189     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0190     C.
0191   +. TI 2009-06-11 10:22:01.0
0192     DC 01-B5 DHU_OPOG_COPY
0193     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

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0194     C.
0195   +. TI 2009-06-11 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 2009-06-11 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 2009-06-11 10:26:30.0
0256     DC 07-FC EIS_MODE_MANU
0257     BC       (21 02)
0258   +. TI 2009-06-11 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 2009-06-11 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.
```

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(a) Spacecraft Operation Procedure (real-commands)

main-651 2009-06-11 14:16:18 166 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. 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•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. ***** 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 AOCSDUMP 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 29s
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 2009-06-11 10:26:50.0
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 ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0153     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0154    . S. DC-BC dcbc-402:DCBC
0155     (MDP_known_event)
0156     C.
0157     C.
0158    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0159    . S. DC-BC dcbc-153:DCBC
0160     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0161     C.
0162     C.
0163    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0164     C.
0165    . C. *********** LOS ***********
0166     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-652 2009-06-11 14:16:20 139 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¤¼ºÇÔ¤•¤¿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. ************ XRT START ************
0016     C.
0017   +. DC 07-F0 MDP_XRT_CTRL_MANU
0018     BC       (c1)
0019   +  DC 07-F0 MDP_XRT_MODE_STBY
0020     BC       (c3)
0021   . C. ----------- Success Verify ?              OK / NG____
0022     C.
0023     C. XRT Obs. Table Upload
0024   . S. RAM   ram-291:MDP_OBS_X
0025     ()
0026     C.
0027   +. DC 07-F0 MDP_DUMP_XRTTBL
0028     BC       (84 07 00 00 00 3a d4)
0029   . C. ----------- Comparison Check ?                        OK / ERR ____
0030     C.
0031     C.
0032   +. DC 07-F0 MDP_XRT_ROI_SET
0033     BC       (cd 01 b1 b1 04 04)
0034   +  DC 07-F0 MDP_XRT_ROI_SET
0035     BC       (cd 02 b1 b1 08 08)
0036   +  DC 07-F0 MDP_XRT_ROI_SET
0037     BC       (cd 03 b1 b1 08 08)
0038   +  DC 07-F0 MDP_XRT_ROI_SET
0039     BC       (cd 04 b1 b1 06 06)
0040   +  DC 07-F0 MDP_XRT_ROI_SET
0041     BC       (cd 06 80 80 06 06)
0042   +  DC 07-F0 MDP_XRT_ROI_SET
0043     BC       (cd 07 80 80 20 20)
0044   +  DC 07-F0 MDP_XRT_ROI_SET
0045     BC       (cd 0f 80 80 06 06)
0046   +  DC 07-F0 MDP_XRT_ROI_SET
0047     BC       (cd 10 80 80 10 10)
0048   +. DC 07-F0 MDP_XRT_QT_PROG_SET
0049     BC       (c4 14)
0050   +  DC 07-F0 MDP_XRT_ARS_DIS
0051     BC       (d5)
0052   +  DC 07-F0 MDP_XRT_FLD_DIS
0053     BC       (d9)
0054   +  DC 07-F0 MDP_XRT_FLRCTRL_DIS
0055     BC       (c9)
0056   . C. ---------- Success Verify ?            OK / NG ____
0057     C.
0058     C.
0059   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0060     C.
0061   +. DC 07-F0 MDP_XRT_MODE_OBSV
0062     BC       (c2)
0063   +  DC 07-F0 MDP_XRT_CTRL_AUTO
0064     BC       (c0)
0065   +. TI 2009-06-11 10:26:02.0
0066     DC 07-F0 MDP_XRT_MODE_OBSV
0067     BC       (c2)
0068   +. TI 2009-06-11 10:26:04.0
0069     DC 07-F0 MDP_XRT_CTRL_AUTO
0070     BC       (c0)
0071   . C. ---------- Success Verify ?            OK / NG ____
0072     C.
0073     C. ************ XRT END ***********
0074   . C. *********************************
0075     C.  SOT table upload
0076     C. *********************************
0077   . C. < Stop FG table >
0078   +. DC 07-F0 MDP_FG_CTRL_MANU
0079     BC       (51)
0080   . C. -------------------------------------
0081     C.  MDP_FG_CTRL_MODE      = MANU    [ ]
0082     C. -------------------------------------
0083     C.
0084   . C. <Upload FG Observation Table>
0085   . S. RAM   ram-263:MDP_OBS_F
0086     ()
0087     C.
0088   . C. < Dump RAMID=MDP_OBS_F >
0089   +. DC 07-F0 MDP_DUMP_FGTBL
0090     BC       (82 07 00 00 00 38 b8)
0091     C. -------------------------------------
0092     C.  MDP_OBS_F verify = OK/NG        [ ]
0093     C. -------------------------------------
0094     C.
0095   . C. < Stop SP table >
```

```
0096  +. DC 07-F0 MDP_SP_CTRL_MANU
0097     BC       (61)
0098     C. ------------------------------------
0099     C.  MDP_SP_CTRL_MODE      = MANU    [ ]
0100     C. ------------------------------------
0101     C.
0102   . C. <Upload SP Observation Table>
0103   . S. RAM   ram-283:MDP_OBS_S
0104     ()
0105     C.
0106   . C. < Dump RAMID=MDP_OBS_S >
0107  +. DC 07-F0 MDP_DUMP_SPTBL
0108     BC       (83 07 00 00 00 38 b8)
0109     C. ------------------------------------
0110     C.  MDP_OBS_S verify = OK/NG        [ ]
0111     C. ------------------------------------
0112     C.
0113     C. ********************************
0114     C.  SOT TI command set
0115     C. ********************************
0116     C. Execute, after the success of TBL upload.
0117  +. TI 2009-06-11 10:26:18.0
0118     DC 07-F0 MDP_SOT_MODE_OBSV
0119     BC       (40)
0120   . C. ------------------------------------
0121     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0122     C. ------------------------------------
0123     C.
0124     C.
0125   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0126     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0127   . S. DC-BC dcbc-402:DCBC
0128     (MDP_known_event)
0129     C.
0130     C.
0131   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0132   . S. DC-BC dcbc-153:DCBC
0133     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0134     C.
0135     C.
0136   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0137     C.
0138   . C. ********** LOS **********
0139     C.
```

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

2009/06/11  10:37:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM               5 02-76 01 00 00 00 00
2009/06/11  10:39:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  10:39:02.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                XRT_FOCUS_POSITION    4 07-F8 22 fe 97 00
2009/06/11  10:39:22.0  XRT_QT_PROG_SET_401_OG [0x191]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 13
2009/06/11  10:39:24.0  XRT_AEC_RESET_415_OG [0x19f]
                                MDP_XRT_AEC_RESET     1 07-F0 d0
2009/06/11  10:39:26.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2009/06/11  10:39:28.0  XRT_FLD_DIS_445_OG [0x1bd]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2009/06/11  10:39:30.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/06/11  10:42:08.0  XRT_CTRL_AUTO_403_OG [0x193]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/11  11:47:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  12:17:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/11  13:26:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  13:55:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/11  15:04:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  15:50:00.0  XRT_Custom_430_OG [0x1ae]
2009/06/11  15:51:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/11  16:43:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  17:26:30.0  XRT_Custom_430_OG [0x1ae]
2009/06/11  17:27:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/11  17:59:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  17:59:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2009/06/11  18:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM               5 02-76 00 00 00 00 00
2009/06/11  18:00:16.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2009/06/11  18:00:18.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/06/11  18:00:20.0  XRT_ARS_DIS_410_OG [0x19a]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2009/06/11  18:02:58.0  XRT_QT_PROG_SET_421_OG [0x1a5]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 0b
2009/06/11  18:03:00.0  XRT_CTRL_AUTO_440_OG [0x1b8]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/11  18:21:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  19:04:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  19:04:02.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                XRT_FOCUS_POSITION    4 07-F8 22 fe 97 00
2009/06/11  19:04:22.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 0e
2009/06/11  19:04:24.0  XRT_AEC_RESET_415_OG [0x19f]
                                MDP_XRT_AEC_RESET     1 07-F0 d0
2009/06/11  19:04:26.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2009/06/11  19:04:28.0  XRT_FLD_DIS_445_OG [0x1bd]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2009/06/11  19:04:30.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2009/06/11  19:07:08.0  XRT_CTRL_AUTO_403_OG [0x193]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/11  20:00:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  20:40:31.5  XRT_Custom_430_OG [0x1ae]
2009/06/11  20:41:31.5  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/11  21:38:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/11  23:47:00.0  XRT_Custom_430_OG [0x1ae]
2009/06/11  23:48:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/12  00:55:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/12  01:25:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2009/06/12  02:00:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/12  03:04:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2009/06/12  03:04:02.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                XRT_FOCUS_POSITION    4 07-F8 22 fe 97 00
2009/06/12  03:04:22.0  XRT_QT_PROG_SET_426_OG [0x1aa]
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                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2009/06/12  03:04:24.0  XRT_AEC_RESET_415_OG [0x19f]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2009/06/12  03:04:26.0  XRT_ARS_DIS_422_OG [0x1a6]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/12  03:04:28.0  XRT_FLD_DIS_445_OG [0x1bd]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/12  03:04:30.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/12  03:07:08.0  XRT_CTRL_AUTO_403_OG [0x193]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/12  03:59:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  04:42:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/12  05:39:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  06:25:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  06:25:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2009/06/12  06:26:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2009/06/12  06:26:16.0  XRT_FLD_DIS_419_OG [0x1a3]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/12  06:26:18.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/12  06:26:20.0  XRT_ARS_DIS_410_OG [0x19a]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/12  06:28:58.0  XRT_QT_PROG_SET_400_OG [0x190]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 01
2009/06/12  06:29:00.0  XRT_CTRL_AUTO_403_OG [0x193]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/12  06:35:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  06:35:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/12  06:36:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM              5 02-76 00 cb 4c 01 ca
2009/06/12  06:36:16.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2009/06/12  06:36:18.0  XRT_AEC_RESET_415_OG [0x19f]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2009/06/12  06:36:20.0  XRT_ARS_DIS_422_OG [0x1a6]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/12  06:36:22.0  XRT_FLD_DIS_445_OG [0x1bd]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/12  06:36:24.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/12  06:39:02.0  XRT_CTRL_AUTO_403_OG [0x193]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/12  06:56:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  06:56:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/12  06:57:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                    AOCU_NM              5 02-76 00 c6 da 01 ca
2009/06/12  06:57:16.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2009/06/12  06:57:18.0  XRT_AEC_RESET_415_OG [0x19f]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2009/06/12  06:57:20.0  XRT_ARS_DIS_422_OG [0x1a6]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/12  06:57:22.0  XRT_FLD_DIS_445_OG [0x1bd]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/12  06:57:24.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/12  07:00:02.0  XRT_CTRL_AUTO_403_OG [0x193]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/12  07:19:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 00 ba 25 01 ca
2009/06/12  07:20:01.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  07:42:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                    AOCU_NM              5 02-76 00 b2 c1 01 ca
2009/06/12  08:04:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                    AOCU_NM              5 02-76 01 00 00 00 00
2009/06/12  08:04:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  08:04:56.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2009/06/12  08:05:16.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2009/06/12  08:05:18.0  XRT_AEC_RESET_415_OG [0x19f]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2009/06/12  08:05:20.0  XRT_ARS_DIS_422_OG [0x1a6]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2009/06/12  08:05:22.0  XRT_FLD_DIS_445_OG [0x1bd]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2009/06/12  08:05:24.0  XRT_FLRCTRL_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2009/06/12  08:08:02.0  XRT_CTRL_AUTO_403_OG [0x193]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
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2009/06/12  08:59:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  09:37:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2009/06/12  10:41:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2009/06/12  11:14:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
```