XRT Timeline to be uploaded on 2008/06/26

Period: 2008/06/26 10:26:00 - 2008/07/01 10:16:00

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

XOB #1575: AR multifilter - Al/mesh,Ti/Poly,Al/Poly,Thin-Be FOV384 AEC1 Q95-high cadence(3min)

Term	Pointing (x, y)	Comment
06/26 10:42:00 - 06/26 11:12:00	Track (848.3, -75.5) @ 06/26 10:36:00	# OP start + 10min, cont. tracking AR 10999.

PROG= 12 Inf.-time(s)
Subr= 1 1-time(s) 180.0sec
Seqn= 6 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/Ti-poly	close	Safe	Norm	8.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	11.3s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	8.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	22.6s	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec

XOB #1550: G-Band Alignment with North Pole Q90 2x2(G-band only) 8min Cadence - ROI For Limb Alignment-3

Term	Pointing (x, y)	Comment
06/26 15:42:00 - 06/26 17:26:54	Fixed (0.0, 945.0)	* Alignment offset N.

PROG= 08 1-time(s)
Subr= 1 1-time(s) 360.0sec
Seqn= 58 13-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	2048x1536 (1024, 768)	Q=90	0	0	2.0sec

XOB #1562: Synoptic Q90 2x2 - Al/mesh(256/2048) + Dark cal(512 Q98) + Ti-poly(512/5975) + G-band(16)

Term	Pointing (x, y)	Comment
06/26 17:29:00 - 06/26 17:36:54	Fixed (0.0, 0.0)	synoptic, shifted manually.
06/27 06:28:00 - 06/27 06:35:54	Fixed (0.0, 0.0)	synoptic, shifted 26.0 min
06/27 18:04:30 - 06/27 18:12:24	Fixed (0.0, 0.0)	synoptic, shifted 2.5 min
06/28 05:51:30 - 06/28 05:59:24	Fixed (0.0, 0.0)	synoptic, shifted -10.5 min, and disk-center pointing for possible engineering tests.

PROG= 16 1-time(s)
Subr= 1 1-time(s) 2.0sec
Seqn= 38 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/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	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/Al-mesh	Open/Al-mesh	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec

Seqn= 64 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	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec

Seqn= 46 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=90	0	0	2.0sec

XOB #1551: G-Band Alignment with East limb Q90 2x2 (G-band only) 8min Cadence - ROI for Limb Alignment-3

Term	Pointing (x, y)	Comment
06/26 17:52:00 - 06/26 19:59:00	Fixed (-945.0, 0.0)	# Alignment offset, E.

PROG= 13 1-time(s)
Subr= 1 1-time(s) 360.0sec
Seqn= 30 13-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 #1576: Polar Plume - Al/Mesh, Al/Poly, C/Poly - 512x512 -10min cadence-long exposure

Term	Pointing (x, y)	Comment
06/26 20:42:00 - 06/26 22:40:00	Fixed (0.0, -950.0)	* Multi-satellite S polar plume study.

PROG= 05 Inf.-time(s)
Subr= 1 1-time(s) 600.0sec
Seqn= 88 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
Al-poly/Open	Al-poly/Open	close	Safe	Norm	32.0s	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	36.0sec
C-poly/Open	thin-Be/Open	close	Safe	Norm	45.2s	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	36.0sec

XOB #155F: Axion_Study_no-AEC_Med-Be-12s

Term	Pointing (x, y)	Comment
06/28 00:26:30 - 06/28 05:49:24	Fixed (0.0, 0.0)	* Disk-center pointing for axion search.

PROG= 04 Inf.-time(s)
Subr= 1 1-time(s) 2.0sec
Seqn= 12 25-time(s) 4.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
med-Be/Open	med-Be/Open	close	Safe	Norm	11.3s	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

└ **Seqn= 52 1-time(s) 4.0sec**

└ med-Be/Open	med-Be/Open	close	Safe	Dark	11.3s	Obs	8x8	2048x2048 (1024, 1024)	DPCM	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

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

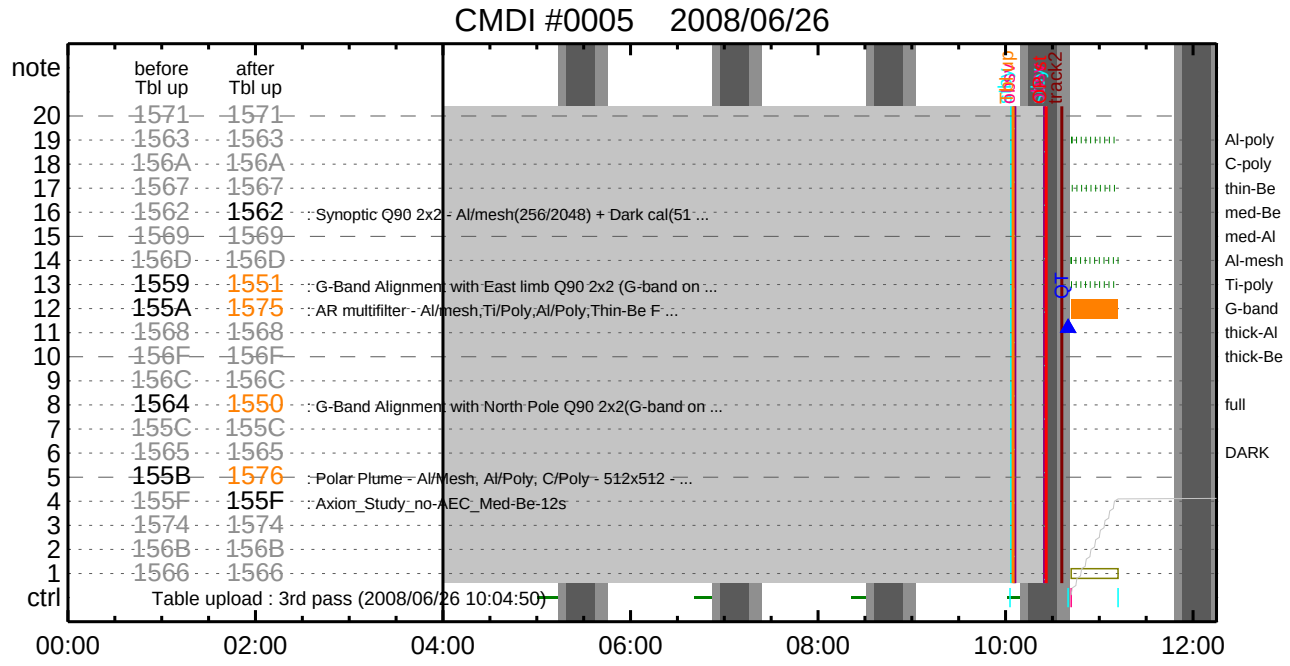
NOT USED

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

NOT USED

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

NOT USED


CMDI #0005 2008/06/26
note
before Tbl up
after Tbl up
20 1571 1571
19 1563 1563
18 156A 156A
17 1567 1567
16 1562 1562 : Synoptic Q90 2x2 - Al/mesh(256/2048) + Dark cal(51 ...
15 1569 1569
14 156D 156D
13 1559 1551 : G-Band Alignment with East limb Q90 2x2 (G-band on ...
12 155A 1575 : AR multifilter - Al/mesh,Ti/Poly,Al/Poly,Thin-Be F ...
11 1568 1568
10 156F 156F
9 156C 156C
8 1564 1550 : G-Band Alignment with North Pole Q90 2x2(G-band on ...
7 155C 155C
6 1565 1565
5 155B 1576 : Polar Plume - Al/Mesh, Al/Poly, C/Poly - 512x512 - ...
4 155F 155F : Axion_Study_no-AEC_Med-Be-12s
3 1574 1574
2 156B 156B
1 1566 1566
ctrl Table upload : 3rd pass (2008/06/26 10:04:50)
track0
track0
track2
QT
00:00
02:00
04:00
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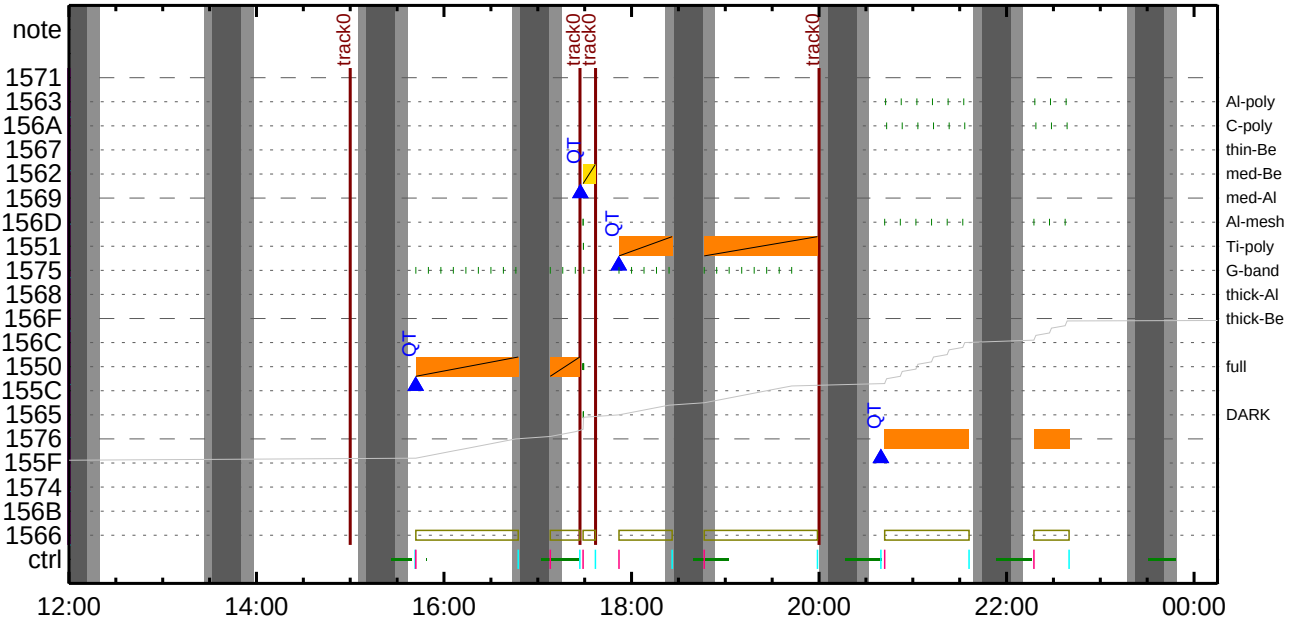
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0005 2008/06/26
note
1571
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156F
156C
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155C
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156B
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track0
track0
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QT
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18:00
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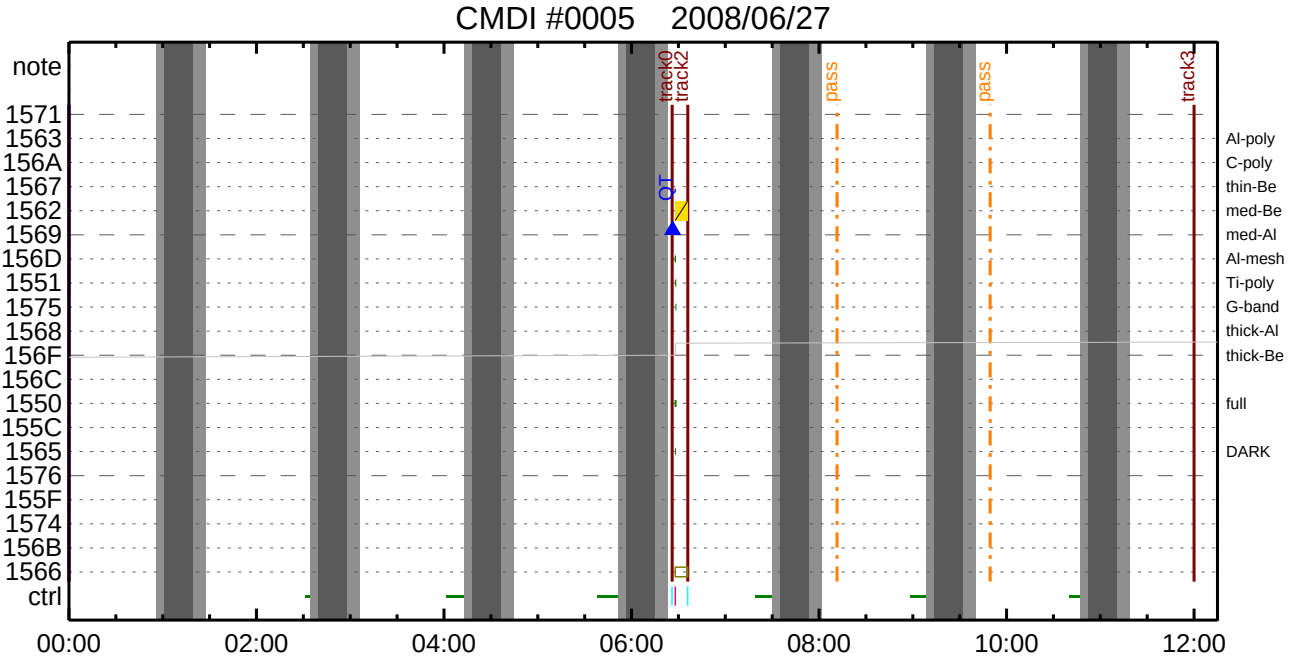
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK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note
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156F
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156B
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ctrl
track0
track2
pass
pass
track3
QT
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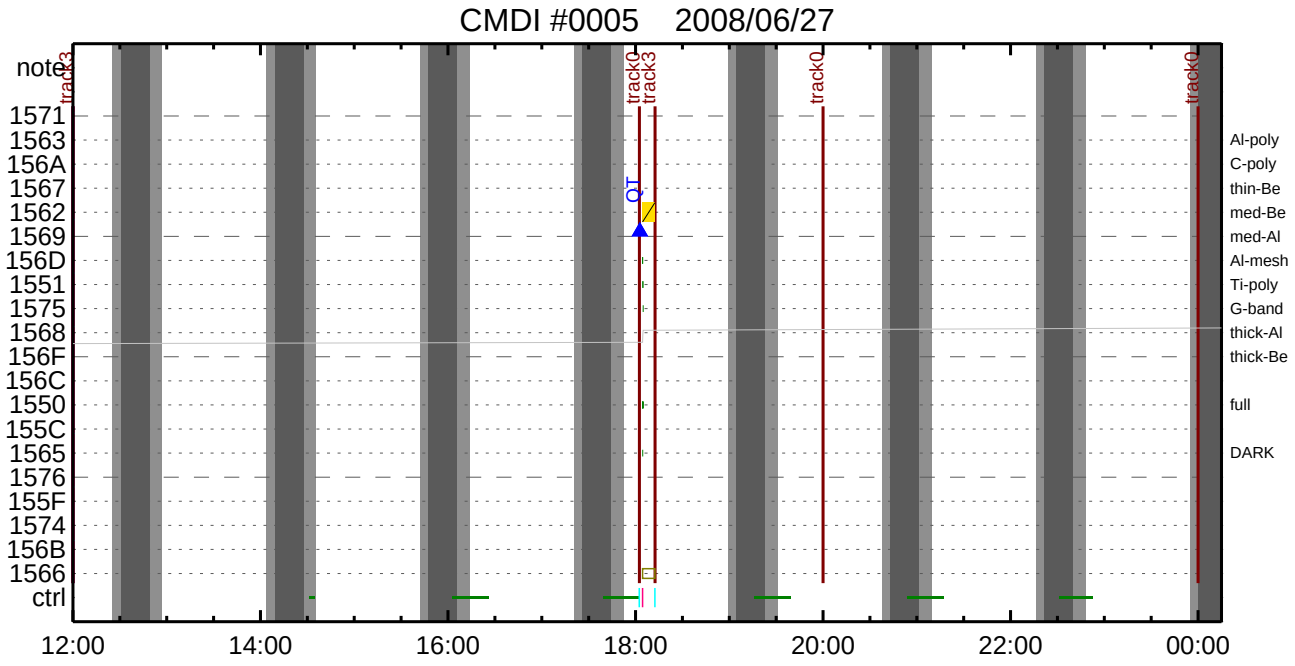
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0005 2008/06/27
note
track3
track0
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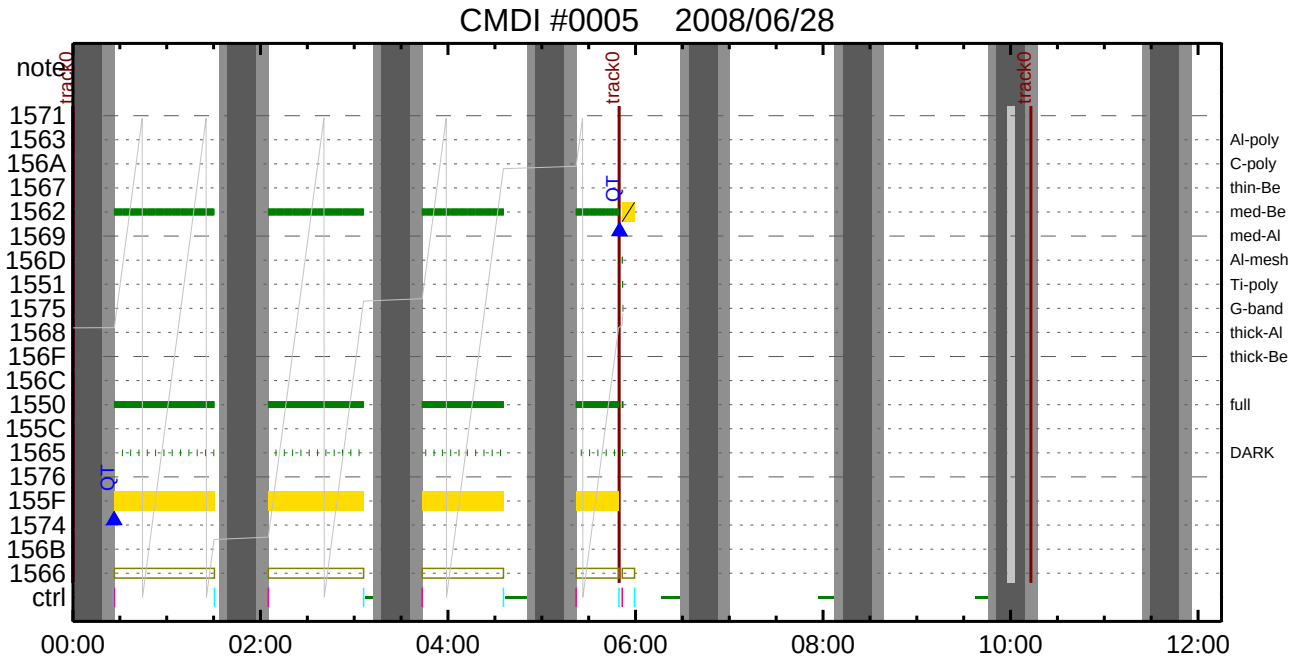
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK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note
track0
track0
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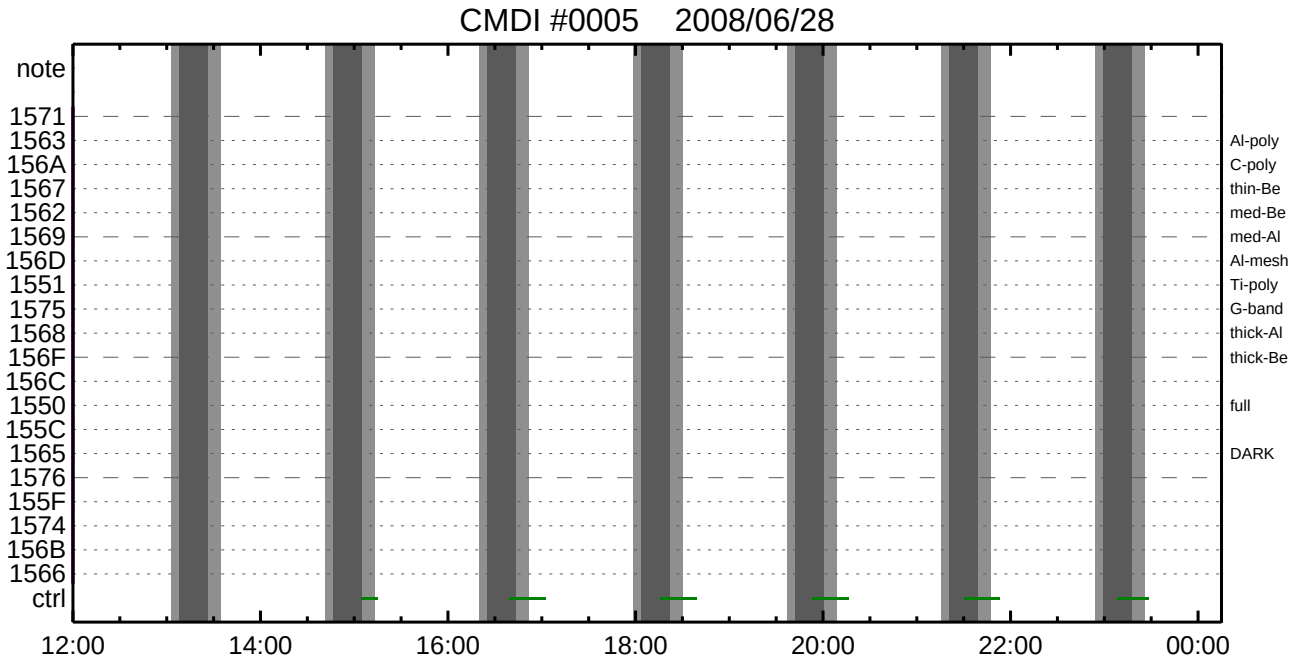
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0005 2008/06/28
note
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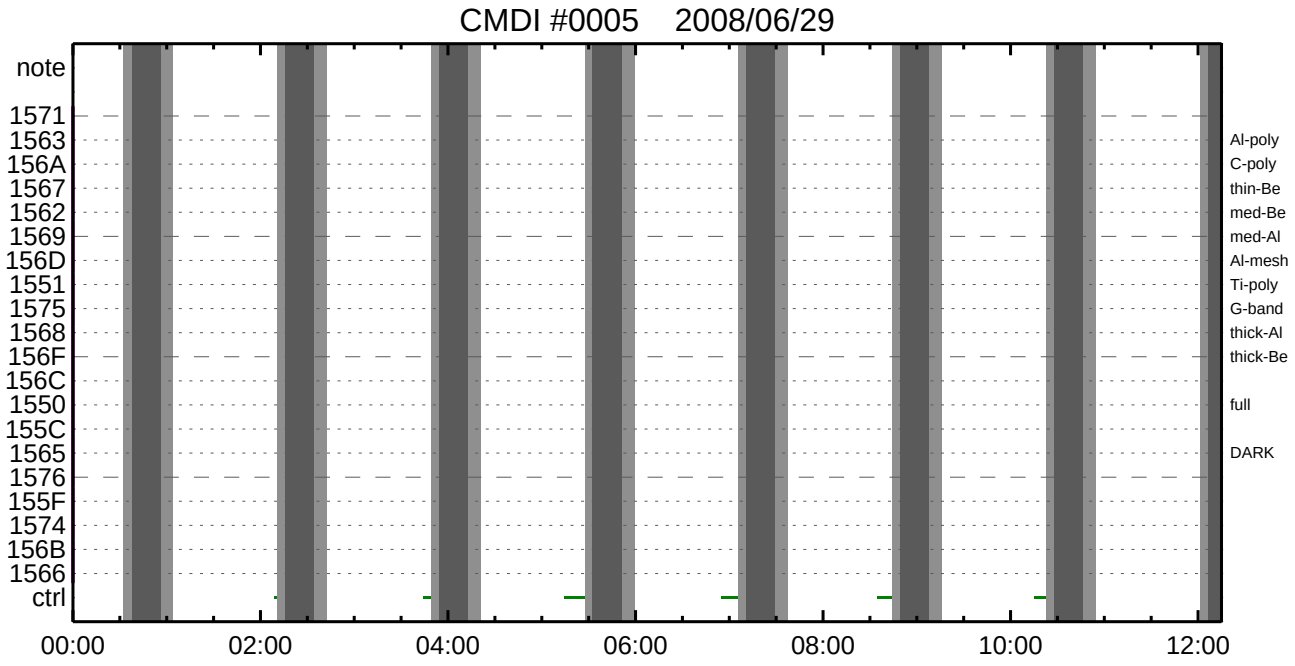
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0005 2008/06/29
note
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ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
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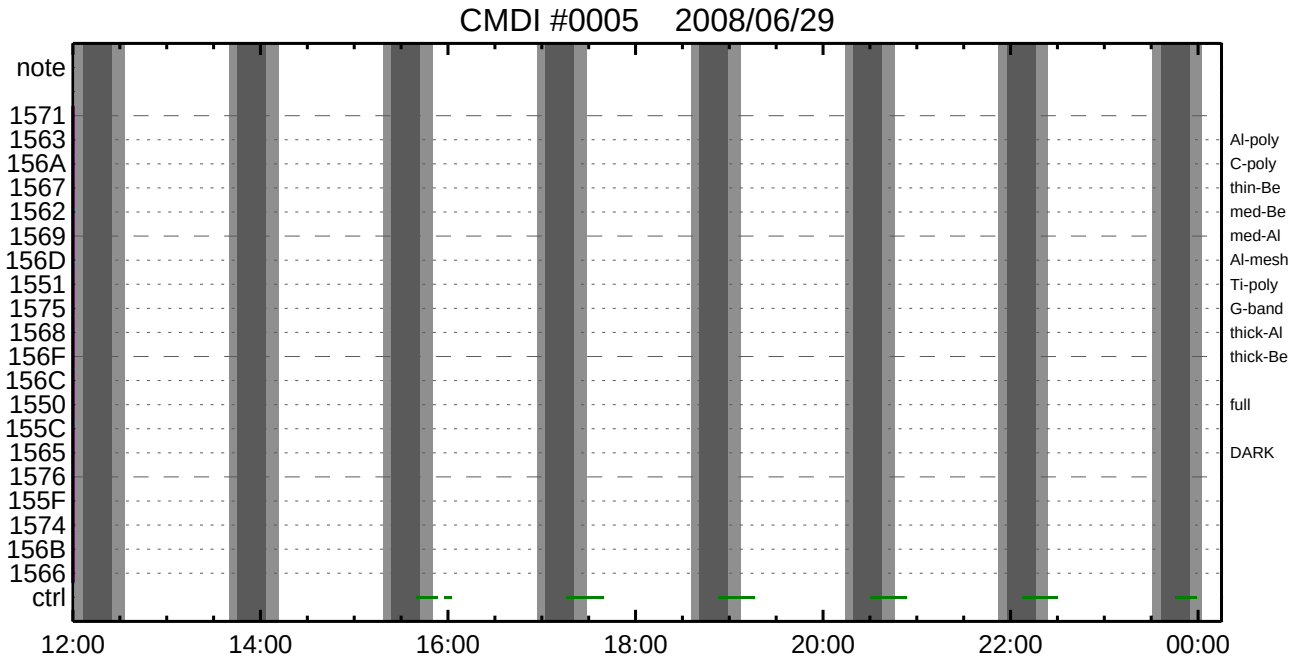
CMDI #0005 2008/06/29
note
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ctrl
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C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
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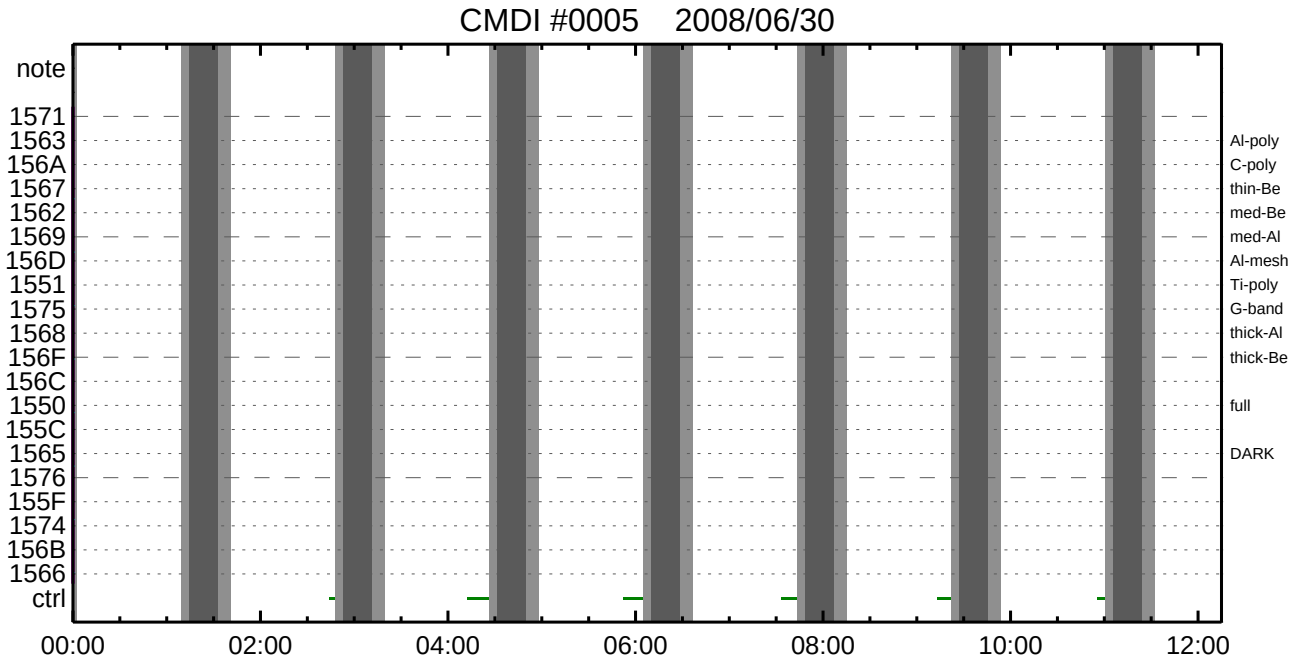
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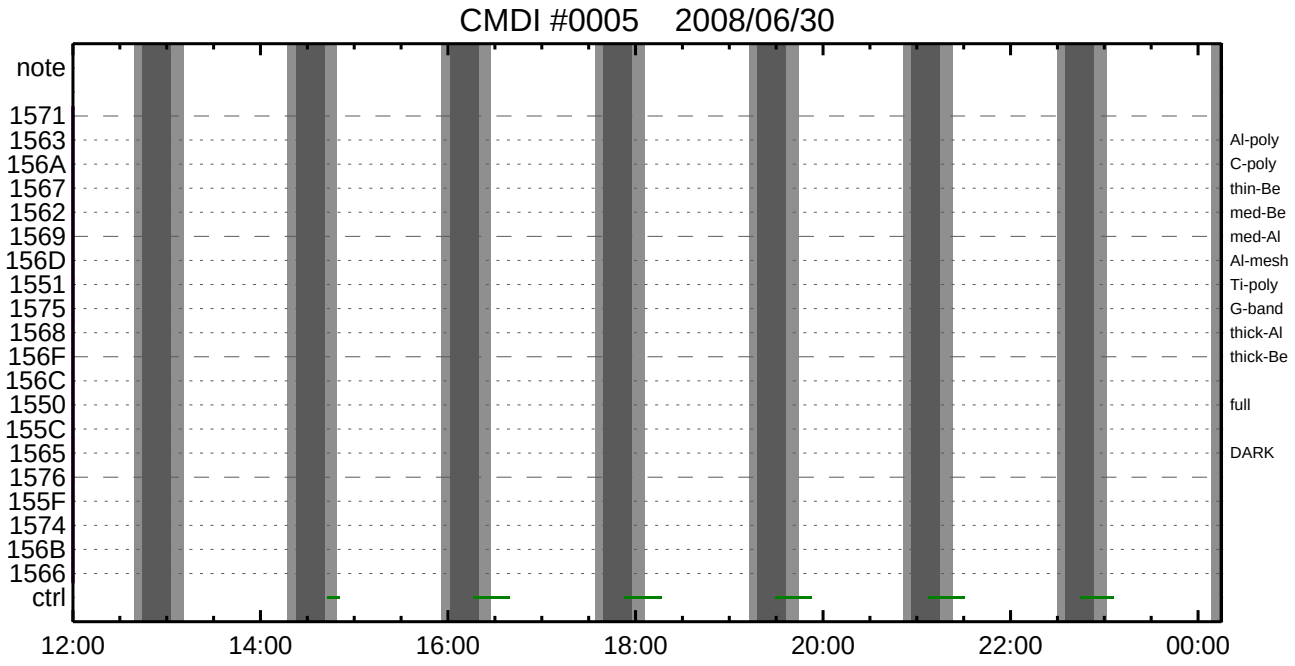
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ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
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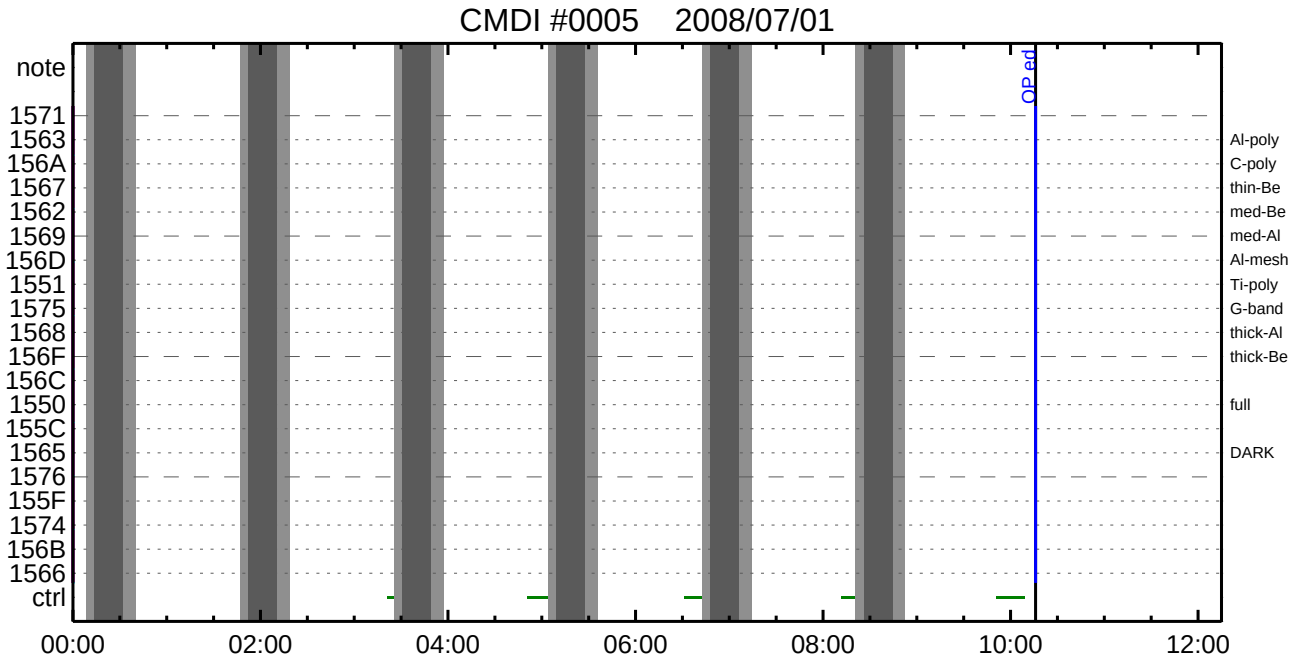
CMDI #0005 2008/07/01
note
OP end
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ctrl
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C-poly
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med-Be
med-Al
Al-mesh
Ti-poly
G-band
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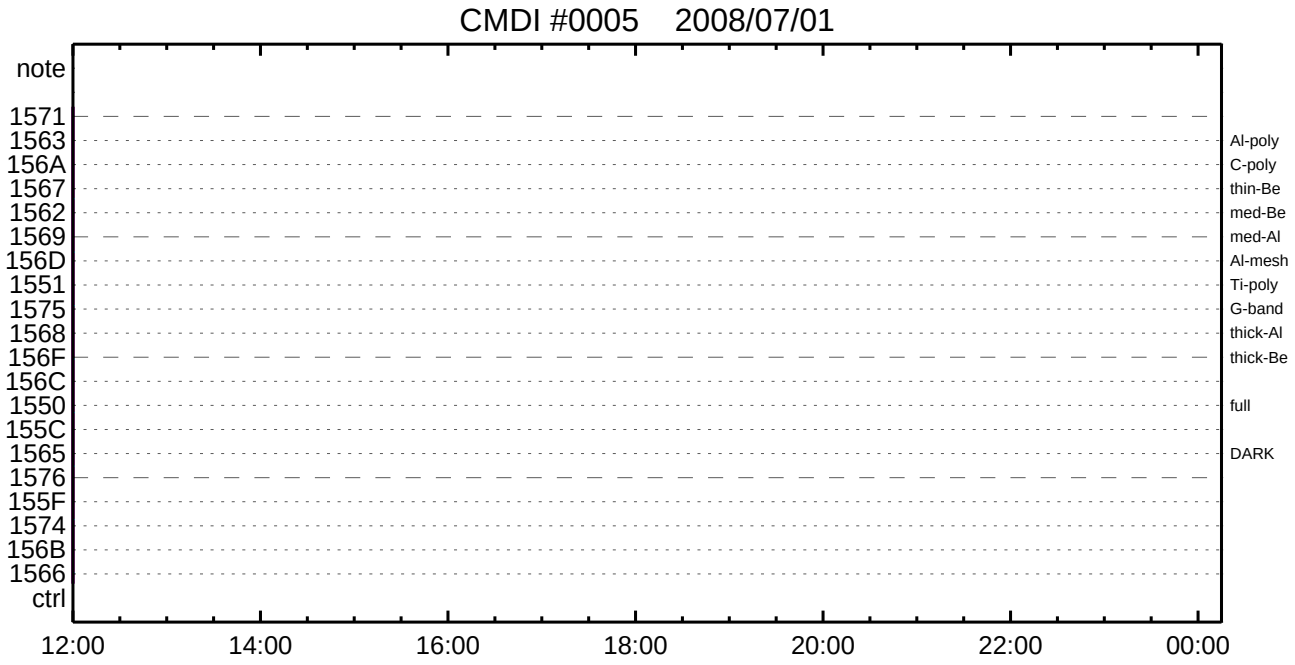
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note
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C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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```
(a) Spacecraft Operation Procedure (real-commands)

main-947 2008-06-26 13:34:17 289 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
```

```
    C.
    C.
  . C. *****************************
    C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
    C. *****************************
    C.
  . C. ¡ãOP/OG¥í¡¼¥É¡ä
  . S. OP    op-947:OP
    ()
  . S. OG    og-947:OG
    ()
    C.
  . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
    C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
 +. DC 01-23 DHU_DMA_DMP_PRM_SET
    BC       (20 00 7f 01 02)
    C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
    C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
    C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
    C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
    C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
 +. DC 01-22 DHU_MODE_CHNG
    BC       (07 0b f8)
    C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
    C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
    C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
    C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
    C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
  . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
    C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
  . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
    C.
    C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
 +. DC 01-23 DHU_DMA_DMP_PRM_SET
    BC       (20 80 7f 01 02)
    C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
    C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
    C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
    C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
    C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
 +. DC 01-22 DHU_MODE_CHNG
    BC       (07 0b f8)
    C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
    C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
    C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
    C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
    C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
  . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
    C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
  . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
    C.
    C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
 +. DC 01-23 DHU_DMA_DMP_PRM_SET
    BC       (21 00 41 01 02)
    C.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
    C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
    C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
    C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
    C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
 +. DC 01-22 DHU_MODE_CHNG
    BC       (07 0b f8)
    C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
    C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
    C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
    C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
    C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
  . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
    C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
  . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
    C.
  . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Çâ) *****
    C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤ÒÌá¤¹
 +. DC 01-22 DHU_MODE_CHNG
    BC       (02 0a f8)
    C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     2
    C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
    C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
    C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
    C.
  . C. **********************************
    C. TI-CMD SET (OPOG STOP/COPY/START)
    C. **********************************
    C.
  . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
    C.          ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
    C.
  . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
 +. TI 2008-06-26 10:21:00.0
    DC 01-B3 DHU_OP_STOP
    C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
    C.
 +. TI 2008-06-26 10:21:01.0
    DC 01-B4 DHU_OP_COPY
    C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
    C.
 +. TI 2008-06-26 10:21:01.0
    DC 01-B5 DHU_OPOG_COPY
    C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195   +. TI 2008-06-26 10:25:59.5
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 2008-06-26 10:25:16.0
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 2008-06-26 10:25:30.0
0256     DC 07-FC EIS_MODE_MANU
0257     BC       (21 02)
0258   +. TI 2008-06-26 10:25:40.0
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 2008-06-26 10:25:00.0
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-948 2008-06-26 13:34:17 166 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•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. ***** 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 35s
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 2008-06-26 10:25:50.0
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-949 2008-06-26 13:34:17 114 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 60 20 18)
0044  +  DC 07-F0 MDP_XRT_ROI_SET
0045     BC       (cd 08 80 80 20 20)
0046  +  DC 07-F0 MDP_XRT_ROI_SET
0047     BC       (cd 09 a0 80 18 20)
0048  +  DC 07-F0 MDP_XRT_ROI_SET
0049     BC       (cd 0a 80 80 08 08)
0050  +  DC 07-F0 MDP_XRT_ROI_SET
0051     BC       (cd 0f 80 80 06 06)
0052  +  DC 07-F0 MDP_XRT_ROI_SET
0053     BC       (cd 10 80 80 04 04)
0054   . C. ---------- Success Verify ?           OK / NG ____
0055     C.
0056     C.
0057   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0058     C.
0059  +. DC 07-F0 MDP_XRT_MODE_OBSV
0060     BC       (c2)
0061  +. TI 2008-06-26 10:25:02.0
0062     DC 07-F0 MDP_XRT_MODE_OBSV
0063     BC       (c2)
0064   . C. ---------- Success Verify ?           OK / NG ____
0065     C.
0066     C. ************ XRT END ************
0067   . C. ********************************
0068     C.  SOT table upload
0069     C. ********************************
0070   . C. < Stop FG table >
0071  +. DC 07-F0 MDP_FG_CTRL_MANU
0072     BC       (51)
0073   . C. ------------------------------------
0074     C.  MDP_FG_CTRL_MODE      = MANU    [ ]
0075     C. ------------------------------------
0076     C.
0077   . C. <Upload FG Observation Table>
0078   . S. RAM   ram-267:MDP_OBS_F
0079     ()
0080     C.
0081   . C. < Dump RAMID=MDP_OBS_F >
0082  +. DC 07-F0 MDP_DUMP_FGTBL
0083     BC       (82 07 00 00 00 38 b8)
0084     C. ------------------------------------
0085     C.  MDP_OBS_F verify = OK/NG        [ ]
0086     C. ------------------------------------
0087     C.
0088     C. ********************************
0089     C.  SOT TI command set
0090     C. ********************************
0091     C. Execute, after the success of TBL upload.
0092  +. TI 2008-06-26 10:25:18.0
0093     DC 07-F0 MDP_SOT_MODE_OBSV
0094     BC       (40)
0095   . C. ------------------------------------
```

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0096     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0097     C. ------------------------------------
0098     C.
0099     C.
0100   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0101     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0102   . S. DC-BC dcbc-402:DCBC
0103     (MDP_known_event)
0104     C.
0105     C.
0106   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0107   . S. DC-BC dcbc-153:DCBC
0108     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0109     C.
0110     C.
0111   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0112     C.
0113   . C. ********** LOS **********
0114     C.
```

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

2008/06/26  10:36:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM               5 02-76 02 00 00 00 00
2008/06/26  10:40:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  10:40:02.0  XRT_QT_PROG_SET_429_OG [0x1ad]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 0c
2008/06/26  10:41:32.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                XRT_FOCUS_POSITION    4 07-F8 22 fe 97 00
2008/06/26  10:41:52.0  XRT_AEC_RESET_413_OG [0x19d]
                                MDP_XRT_AEC_RESET     1 07-F0 d0
2008/06/26  10:41:54.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2008/06/26  10:41:56.0  XRT_FLD_DIS_445_OG [0x1bd]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2008/06/26  10:41:58.0  XRT_FLRCTRL_DIS_416_OG [0x1a0]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2008/06/26  10:42:00.0  XRT_CTRL_AUTO_403_OG [0x193]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2008/06/26  11:12:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  15:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM               5 02-76 00 ac 00 00 00
2008/06/26  15:41:30.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  15:41:32.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2008/06/26  15:41:52.0  XRT_QT_PROG_SET_412_OG [0x19c]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 08
2008/06/26  15:41:54.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2008/06/26  15:41:56.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2008/06/26  15:41:58.0  XRT_ARS_DIS_418_OG [0x1a2]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2008/06/26  15:42:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2008/06/26  16:47:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  17:00:00.0  XRT_Custom_421_OG [0x1a5]
2008/06/26  17:08:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2008/06/26  17:26:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  17:26:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2008/06/26  17:27:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM               5 02-76 00 00 00 00 00
2008/06/26  17:27:16.0  XRT_QT_PROG_SET_420_OG [0x1a4]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 10
2008/06/26  17:27:18.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2008/06/26  17:27:20.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2008/06/26  17:27:22.0  XRT_ARS_DIS_427_OG [0x1ab]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2008/06/26  17:29:00.0  XRT_CTRL_AUTO_444_OG [0x1bc]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2008/06/26  17:36:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  17:37:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                AOCU_NM               5 02-76 00 00 00 54 00
2008/06/26  17:51:30.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                XRT_FOCUS_POSITION    4 07-F8 22 ff aa 00
2008/06/26  17:51:50.0  XRT_QT_PROG_SET_436_OG [0x1b4]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 0d
2008/06/26  17:51:54.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS       1 07-F0 d9
2008/06/26  17:51:56.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS   1 07-F0 c9
2008/06/26  17:51:58.0  XRT_ARS_DIS_418_OG [0x1a2]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2008/06/26  17:52:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2008/06/26  18:26:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  18:38:30.0  XRT_Custom_421_OG [0x1a5]
2008/06/26  18:46:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                MDP_XRT_CTRL_AUTO     1 07-F0 c0
2008/06/26  19:59:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  20:00:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM               5 02-76 00 54 72 00 00
2008/06/26  20:39:34.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU     1 07-F0 c1
2008/06/26  20:39:36.0  XRT_QT_PROG_SET_443_OG [0x1bb]
                                MDP_XRT_QT_PROG_SET   2 07-F0 c4 05
2008/06/26  20:41:34.0  XRT_FOCUS_POSITION_441_OG [0x1b9]
                                XRT_FOCUS_POSITION    4 07-F8 22 fe 97 00
2008/06/26  20:41:54.0  XRT_ARS_DIS_422_OG [0x1a6]
                                MDP_XRT_ARS_DIS       1 07-F0 d5
2008/06/26  20:41:56.0  XRT_FLD_DIS_445_OG [0x1bd]
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                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2008/06/26  20:41:58.0  XRT_FLRCTRL_DIS_416_OG [0x1a0]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2008/06/26  20:42:00.0  XRT_CTRL_AUTO_403_OG [0x193]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/26  21:36:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/26  22:16:30.0  XRT_Custom_430_OG [0x1ae]
2008/06/26  22:17:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/26  22:40:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/27  06:25:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/27  06:25:56.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2008/06/27  06:26:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2008/06/27  06:26:16.0  XRT_QT_PROG_SET_420_OG [0x1a4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2008/06/27  06:26:18.0  XRT_FLD_DIS_419_OG [0x1a3]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2008/06/27  06:26:20.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2008/06/27  06:26:22.0  XRT_ARS_DIS_427_OG [0x1ab]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2008/06/27  06:28:00.0  XRT_CTRL_AUTO_444_OG [0x1bc]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/27  06:35:54.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/27  06:36:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                        AOCU_NM              5 02-76 02 00 00 00 00
2008/06/27  12:00:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                        AOCU_NM              5 02-76 03 00 00 00 00
2008/06/27  18:02:24.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/27  18:02:26.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2008/06/27  18:02:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2008/06/27  18:02:46.0  XRT_QT_PROG_SET_420_OG [0x1a4]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2008/06/27  18:02:48.0  XRT_FLD_DIS_419_OG [0x1a3]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2008/06/27  18:02:50.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2008/06/27  18:02:52.0  XRT_ARS_DIS_427_OG [0x1ab]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2008/06/27  18:04:30.0  XRT_CTRL_AUTO_444_OG [0x1bc]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/27  18:12:24.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/27  18:12:30.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                        AOCU_NM              5 02-76 03 00 00 00 00
2008/06/27  20:00:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 00 54 72 00 00
2008/06/28  00:00:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2008/06/28  00:26:00.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/28  00:26:02.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2008/06/28  00:26:22.0  XRT_QT_PROG_SET_446_OG [0x1be]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 04
2008/06/28  00:26:24.0  XRT_FLD_DIS_419_OG [0x1a3]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2008/06/28  00:26:26.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2008/06/28  00:26:28.0  XRT_ARS_DIS_422_OG [0x1a6]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2008/06/28  00:26:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/28  01:30:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/28  01:57:00.0  XRT_Custom_421_OG [0x1a5]
2008/06/28  02:05:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/28  03:06:00.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/28  03:35:30.0  XRT_Custom_421_OG [0x1a5]
2008/06/28  03:43:30.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/28  04:35:30.0  XRT_CTRL_MANU_435_OG [0x1b3]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/28  05:14:00.0  XRT_Custom_421_OG [0x1a5]
2008/06/28  05:22:00.0  XRT_CTRL_AUTO_432_OG [0x1b0]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/28  05:49:24.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/28  05:49:26.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2008/06/28  05:49:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 00 00 00 00
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2008/06/28  05:49:46.0  XRT_QT_PROG_SET_420_OG [0x1a4]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2008/06/28  05:49:48.0  XRT_FLD_DIS_419_OG [0x1a3]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2008/06/28  05:49:50.0  XRT_FLRCTRL_DIS_447_OG [0x1bf]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2008/06/28  05:49:52.0  XRT_ARS_DIS_427_OG [0x1ab]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2008/06/28  05:51:30.0  XRT_CTRL_AUTO_444_OG [0x1bc]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2008/06/28  05:59:24.0  XRT_CTRL_MANU_428_OG [0x1ac]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2008/06/28  10:13:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 00 00 00 00
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