XRT Timeline to be uploaded on 2013/07/30

Period: 2013/07/30 10:26:00 - 2013/08/03 09:04:00

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

NOT USED

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

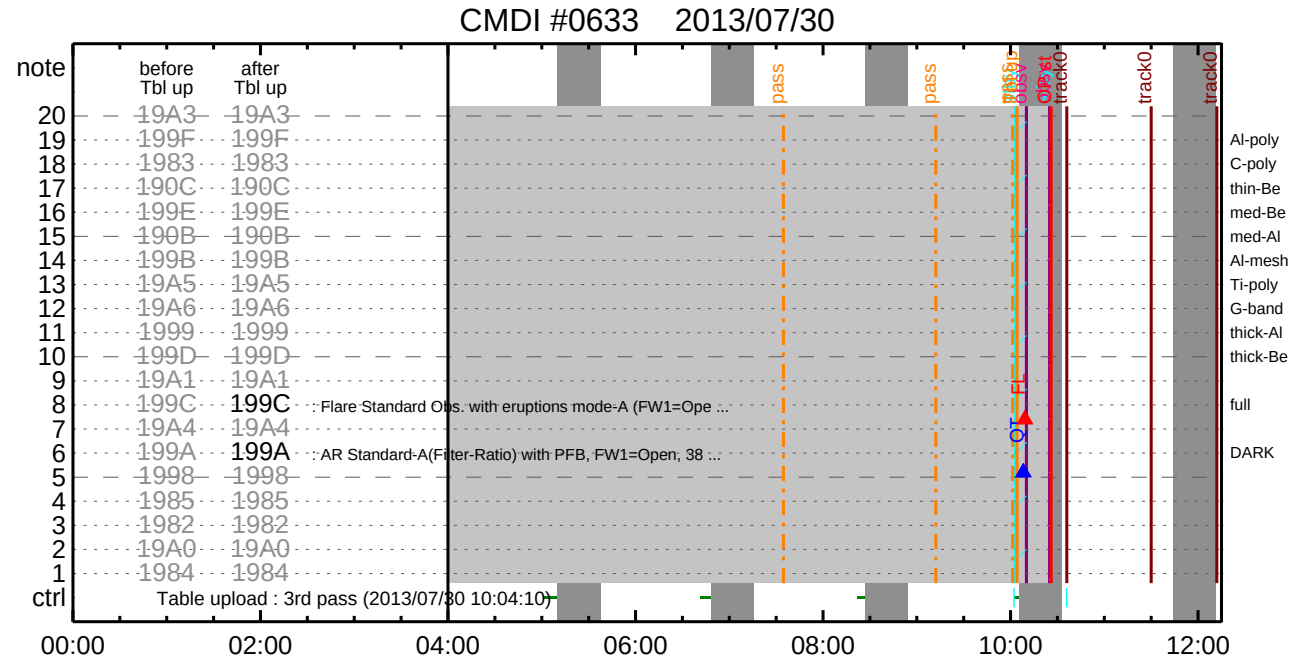
NOT USED

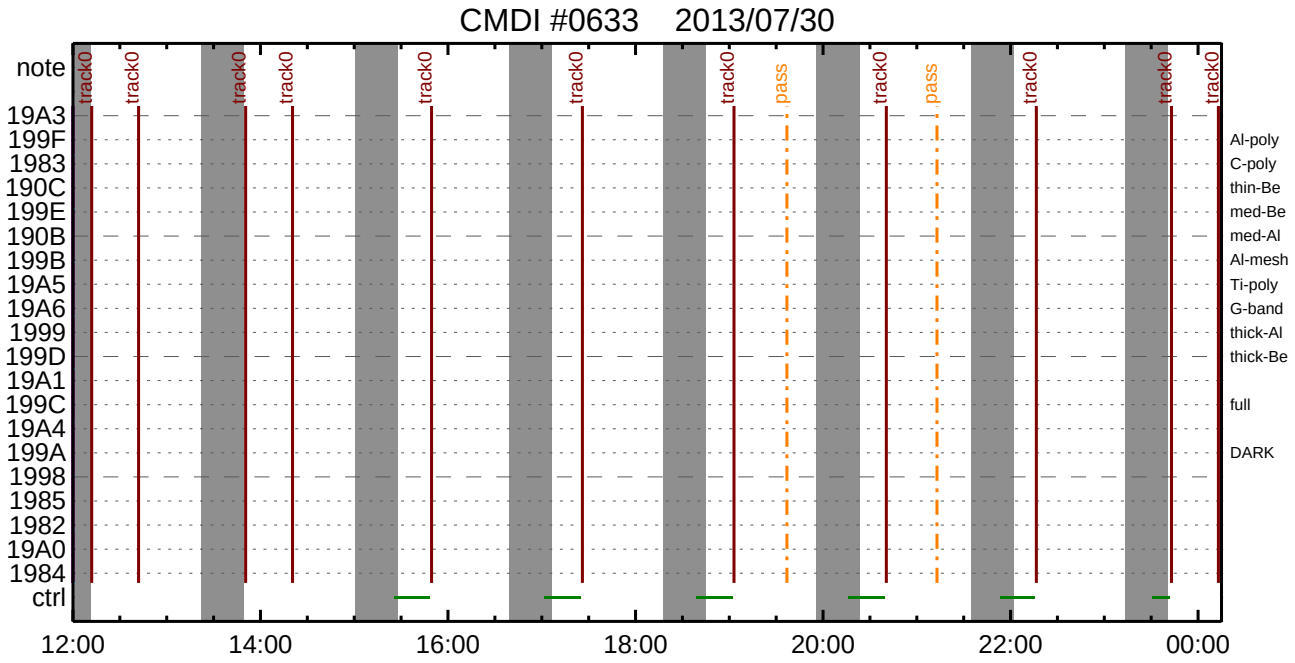
* * * * * **Active Region Search** * * * * *

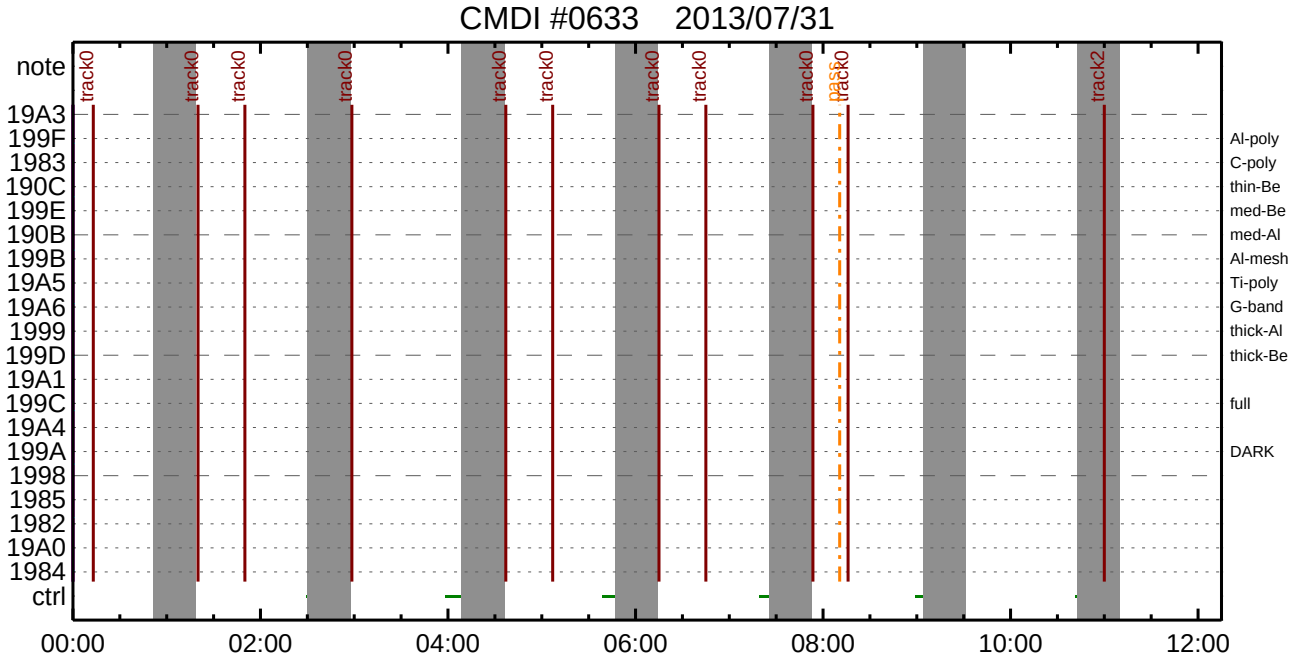
NOT USED

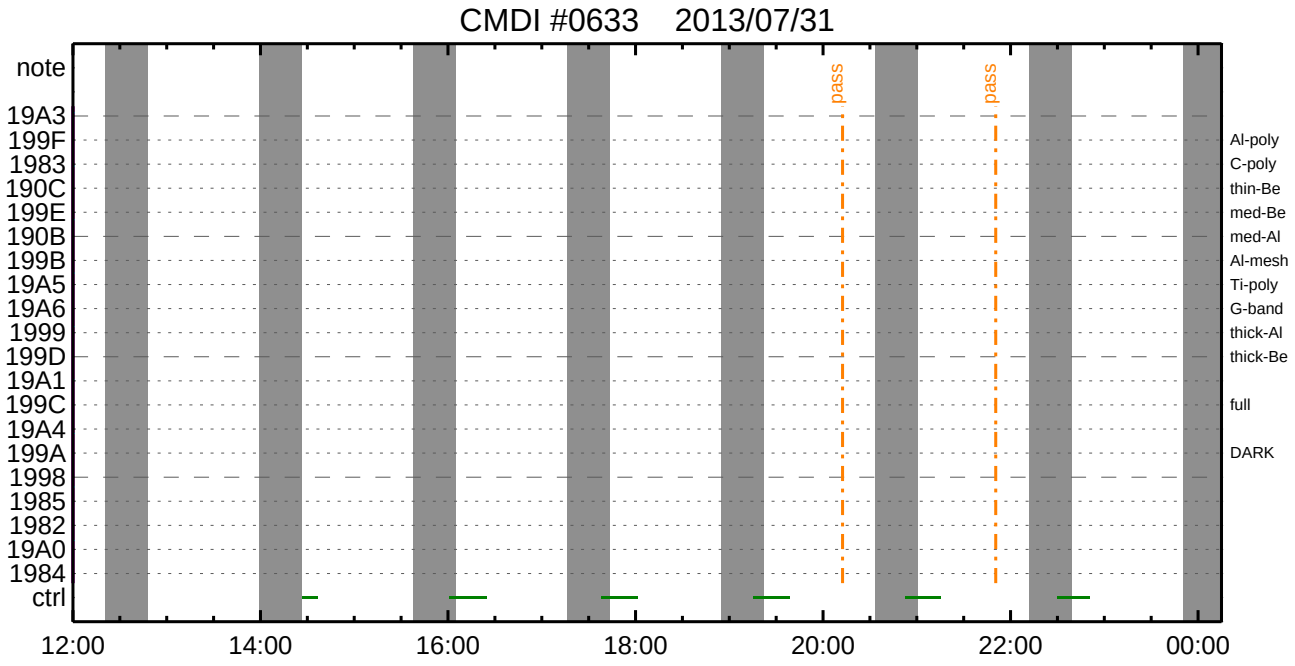
* * * * * **Flare Detection** * * * * *

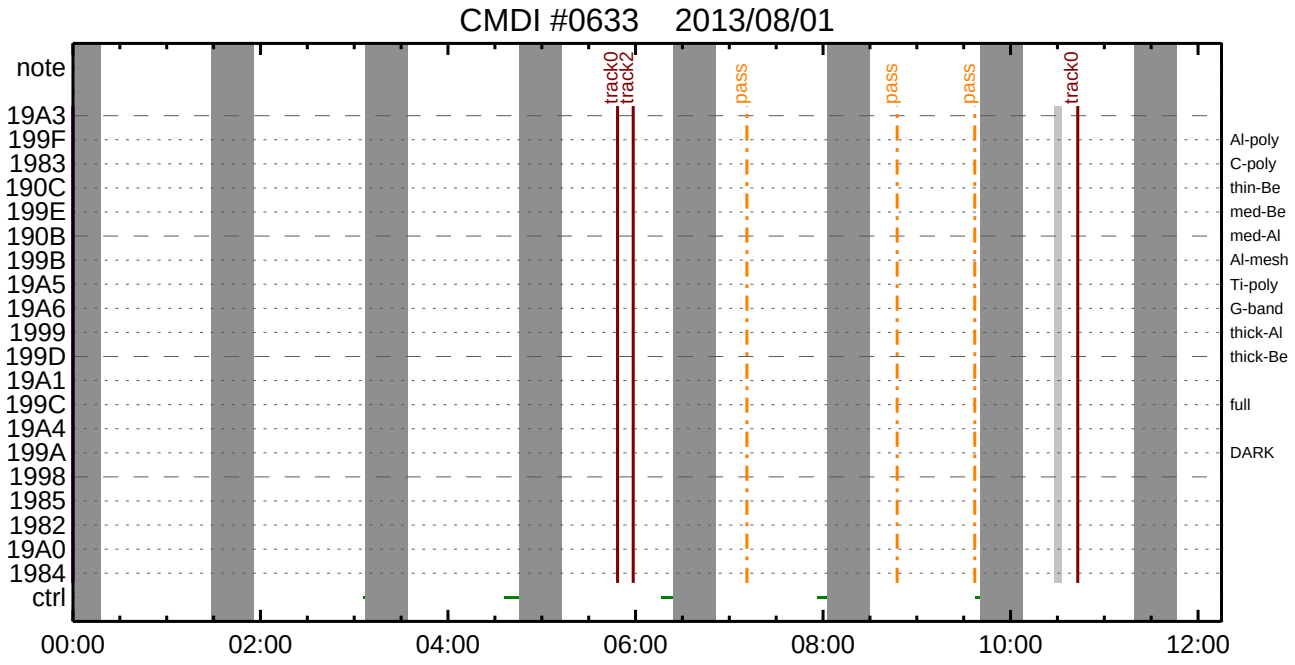
NOT USED

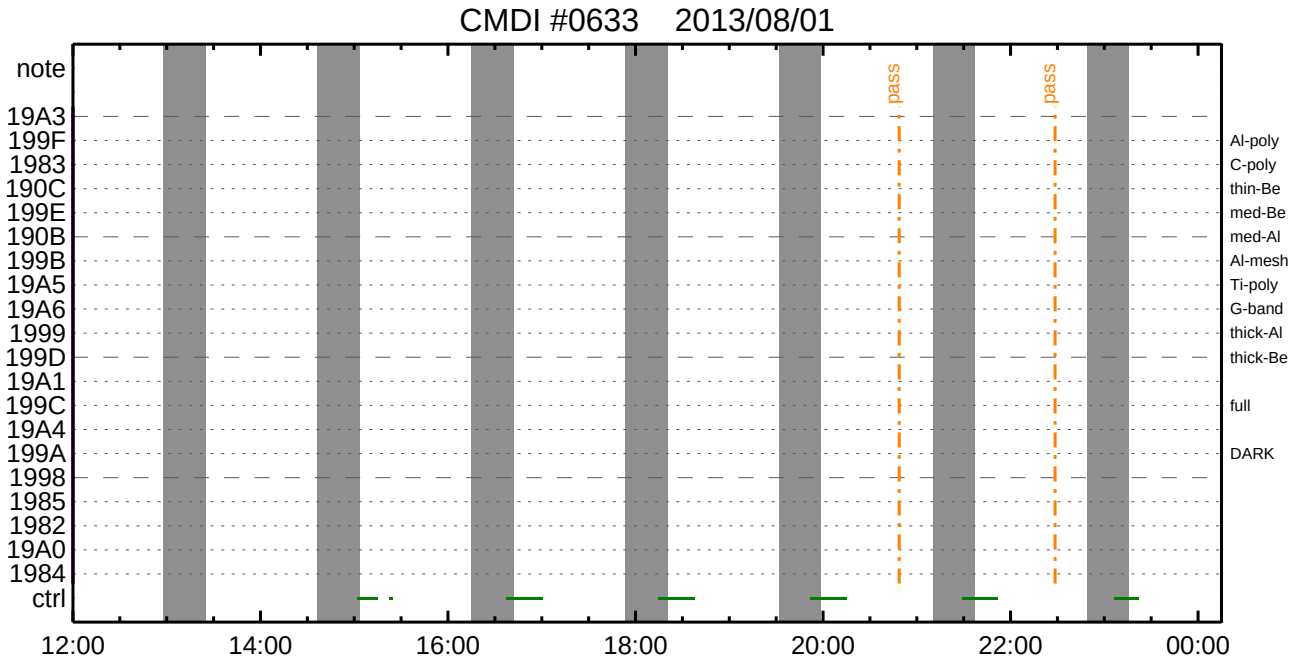

CMDI #0633 2013/07/30
note
before Tbl up
after Tbl up
20 19A3 19A3
19 199F 199F
18 1983 1983
17 190C 190C
16 199E 199E
15 190B 190B
14 199B 199B
13 19A5 19A5
12 19A6 19A6
11 1999 1999
10 199D 199D
9 19A1 19A1
8 199C 199C : Flare Standard Obs. with eruptions mode-A (FW1=Ope ...
7 19A4 19A4
6 199A 199A : AR Standard-A(Filter-Ratio) with PFB, FW1=Open, 38 ...
5 1998 1998
4 1985 1985
3 1982 1982
2 19A0 19A0
1 1984 1984
ctrl Table upload : 3rd pass (2013/07/30 10:04:10)
pass
pass
track0
track0
track0
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

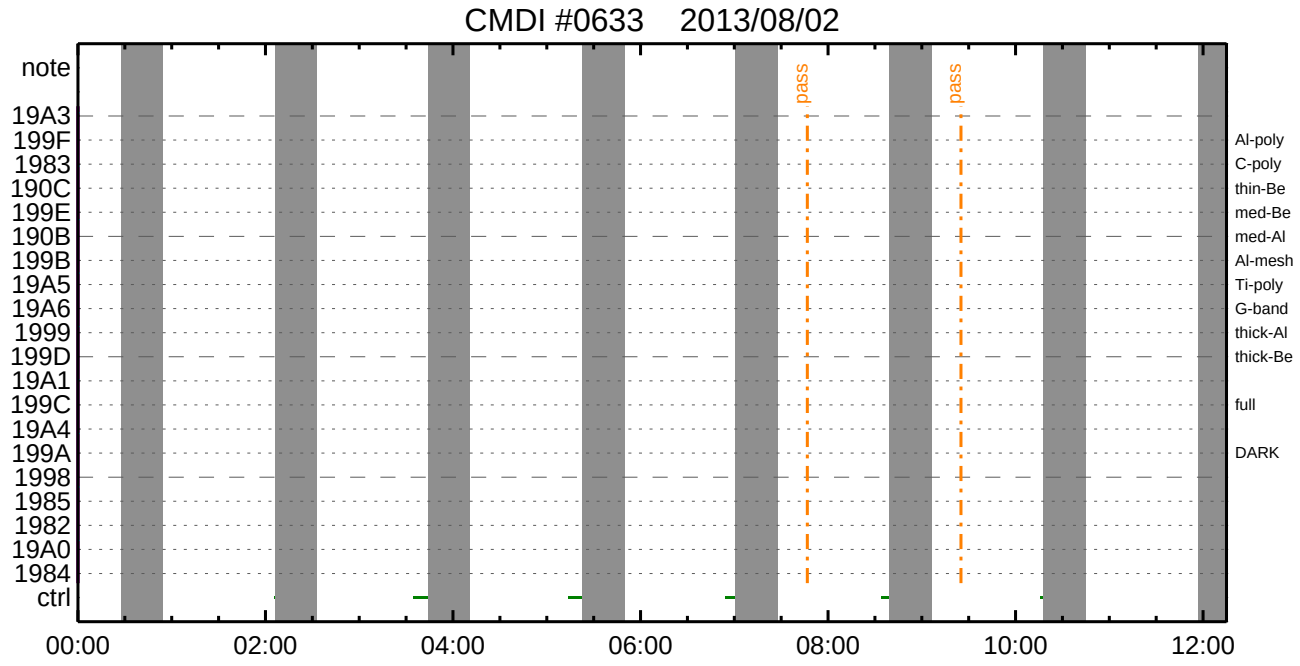

CMDI #0633 2013/07/30
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
ctrl
track0
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

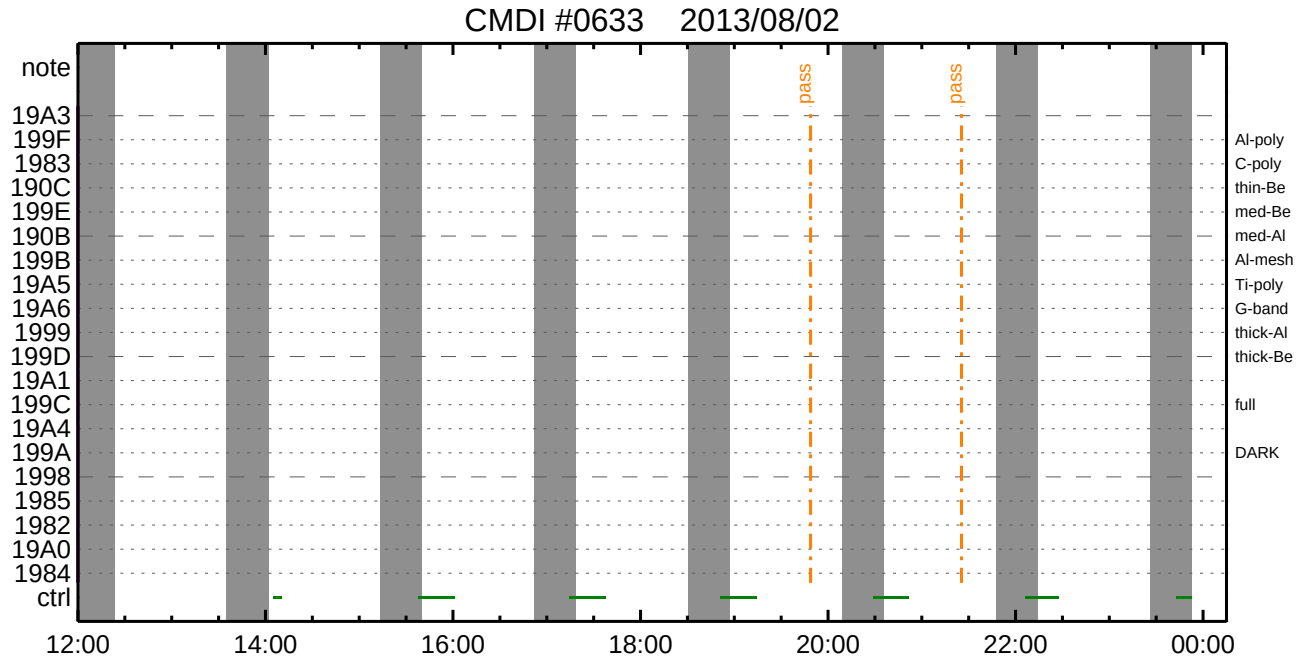

CMDI #0633 2013/07/31
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
ctrl
track0
track2
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00

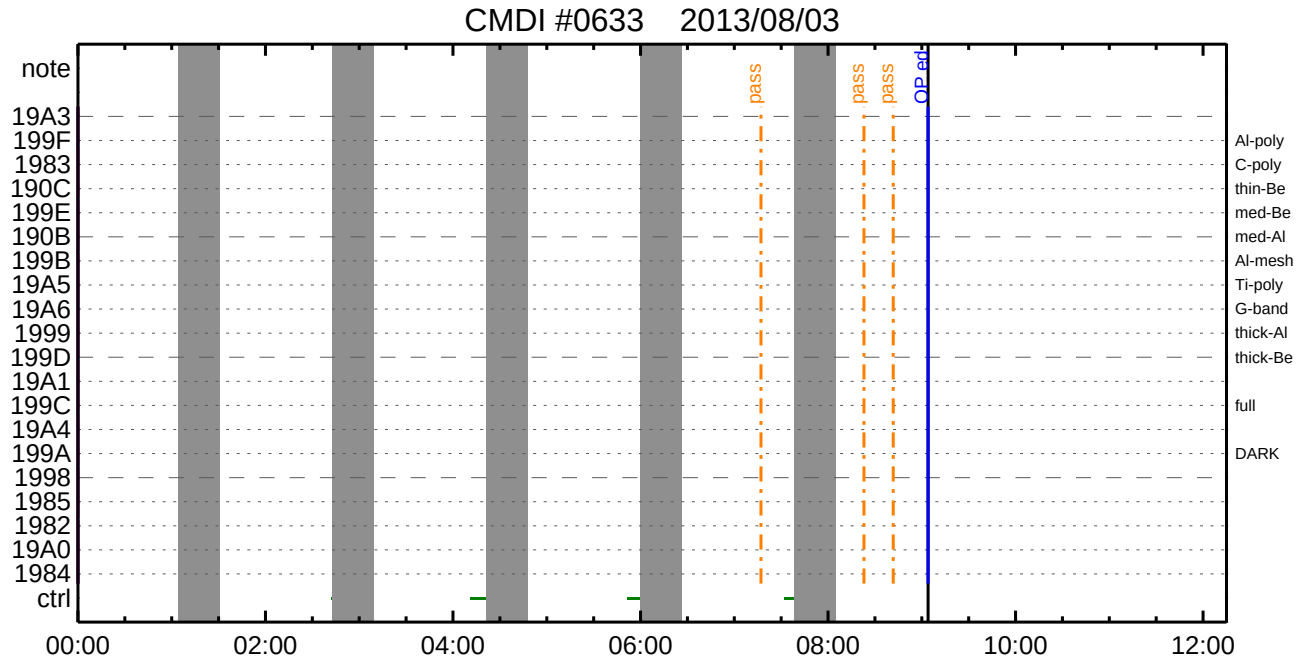

CMDI #0633 2013/07/31
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

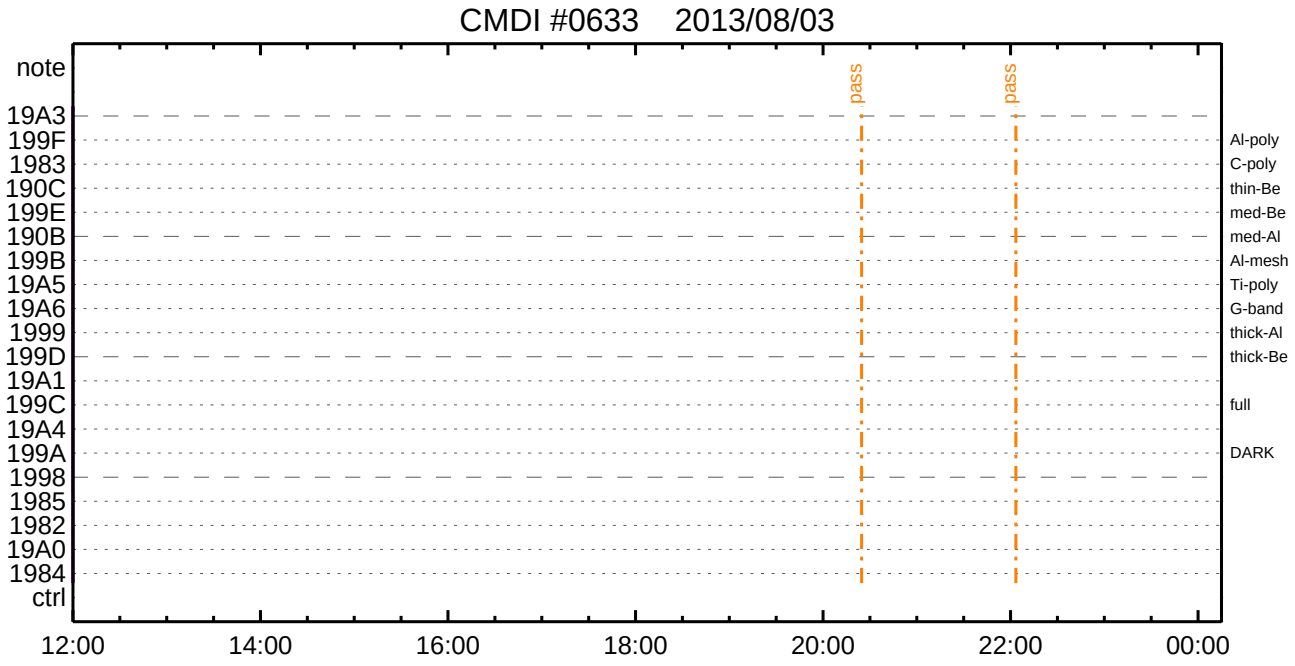

CMDI #0633 2013/08/01
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
ctrl
track0
track2
pass
pass
pass
track0
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0633 2013/08/01
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0633 2013/08/02
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
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
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0633 2013/08/02
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0633 2013/08/03
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
ctrl
pass
pass
pass
OP ed
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0633 2013/08/03
note
19A3
199F
1983
190C
199E
190B
199B
19A5
19A6
1999
199D
19A1
199C
19A4
199A
1998
1985
1982
19A0
1984
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-808 2013-07-30 12:11:44 289 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•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
```

```
     C.
     C.
   . C. ****************************
     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
     C. ****************************
     C.
   . C. ¡ãOP/OG¥í¡¼¥É¡ä
   . S. OP    op-808:OP
     ()
   . S. OG    og-808: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¤Ç¤â) *****
     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 2013-07-30 10:21:00.0
     DC 01-B3 DHU_OP_STOP
     C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
     C.
  +. TI 2013-07-30 10:21:01.0
     DC 01-B4 DHU_OP_COPY
     C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
     C.
  +. TI 2013-07-30 10:21:01.0
     DC 01-B5 DHU_OPOG_COPY
     C.                     ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195   +. TI 2013-07-30 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 2013-07-30 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 2013-07-30 10:25:30.0
0256     DC 07-FC EIS_MODE_MANU
0257     BC       (21 02)
0258   +. TI 2013-07-30 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 2013-07-30 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-809 2013-07-30 12:11:44 175 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¥ÊÀÚÂØ¡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¥ÊÀÚÂØ¤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¥ÊÀÚÂØ¡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. ***** AOCS Commands (Orbital Element Update) *****
0130     C. Update the orbital element
0131   +. DC 02-50 AOCU_ORB_PRPGT_START
0132     BC       (16)
0133   +  DC 02-8E AOCU_ORB_UPD
0134     C.
0135     C.       <A_ORB>[ORBIT] EPC = 6125000.1 +- 1.0 (s) [ ]
0136     C.
0137   . C.
0138   . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139   +. DC 07-FC EIS_MODE_MANU
0140     BC       (21 02)
0141   . C. Verify EIS in MANUAL mode
0142   . C. Estimated OBSTBL upload time is 45s
0143     C. ********************************
0144     C. EIS START OBSTBL LOAD
0145     C. ********************************
0146   . S. RAM   ram-820:EIS_OBSTBL
0147     ()
0148   +. DC 07-FC EIS_DUMP_OBSTBL
0149     BC       (07 07 07 00 00 70 00)
0150     C.
0151     C. Execute, after the success of OBSTBL upload.
0152     C. Set EIS TI-commands
0153   +. TI 2013-07-30 10:25:50.0
0154     DC 07-FC EIS_MODE_CHG_ENA
0155     BC       (20)
0156   . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0157     C. ********************************
0158     C. EIS END OBSTBL LOAD
0159     C. ********************************
0160     C.
0161   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0162     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0163   . S. DC-BC dcbc-402:DCBC
0164     (MDP_known_event)
0165     C.
0166     C.
0167   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0168   . S. DC-BC dcbc-153:DCBC
0169     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0170     C.
0171     C.
0172   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0173     C.
0174   . C. ********** LOS **********
0175     C.
```

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

main-810 2013-07-30 12:11:44 164 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.  SOT table upload
0016     C. ********************************
0017    . C. < Stop FG table >
0018    +. DC 07-F0 MDP_FG_CTRL_MANU
0019     BC       (51)
0020    . C. ------------------------------------
0021     C.  MDP_FG_CTRL_MODE      = MANU    [ ]
0022     C. ------------------------------------
0023     C.
0024    . C. <Upload FG Observation Table>
0025    . S. RAM   ram-267:MDP_OBS_F
0026     ()
0027     C.
0028    . C. < Dump RAMID=MDP_OBS_F >
0029    +. DC 07-F0 MDP_DUMP_FGTBL
0030     BC       (82 07 00 00 00 38 b8)
0031     C. ------------------------------------
0032     C.  MDP_OBS_F verify = OK/NG        [ ]
0033     C. ------------------------------------
0034     C.
0035    . C. < Stop SP table >
0036    +. DC 07-F0 MDP_SP_CTRL_MANU
0037     BC       (61)
0038     C. ------------------------------------
0039     C.  MDP_SP_CTRL_MODE      = MANU    [ ]
0040     C. ------------------------------------
0041     C.
0042    . C. <Upload SP Observation Table>
0043    . S. RAM   ram-283:MDP_OBS_S
0044     ()
0045     C.
0046    . C. < Dump RAMID=MDP_OBS_S >
0047    +. DC 07-F0 MDP_DUMP_SPTBL
0048     BC       (83 07 00 00 00 38 b8)
0049     C. ------------------------------------
0050     C.  MDP_OBS_S verify = OK/NG        [ ]
0051     C. ------------------------------------
0052     C.
0053    . C. < Upload DPL table >
0054     C.
0055     C. ¥¢¥Ã¥×¥í¡¼¥É¤ÎÁ°¤ËSTS_CHK¤òOFF¤Ë¤¹¤ë
0056     C.
0057    . S. RAM   ram-271:MDP_DPL
0058     ()
0059     C.
0060    . C. < Dump RAMID=MDP_DPL >
0061    +. DC 07-F0 MDP_DUMP_FGTBL
0062     BC       (82 07 00 38 b8 00 40)
0063     C. ------------------------------------
0064     C.  MDP_DPL verify          = OK    [ ]
0065     C. ------------------------------------
0066     C.
0067     C. STS_CHK¤òON¤Ë¤¹¤ë
0068     C.
0069    . C. < Update MDP DSC PAR1 >
0070    +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0071     BC       (4c)
0072     C.  MDP_CMD_CODE          = F04C0700[ ]
0073     C.  MDP_CMD_CNT        (count-up 1) [ ]
0074     C. ------------------------------------
0075     C.
0076    . C.
0077     C. ********************************
0078     C.  SOT TI command set
0079     C. ********************************
0080     C. Execute, after the success of TBL upload.
0081    +. TI 2013-07-30 10:25:18.0
0082     DC 07-F0 MDP_SOT_MODE_OBSV
0083     BC       (40)
0084    . C. ------------------------------------
0085     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0086     C. ------------------------------------
0087     C.
0088     C.
0089     C. ************ XRT START ************
0090     C.
0091    +. DC 07-F0 MDP_XRT_CTRL_MANU
0092     BC       (c1)
0093    +  DC 07-F0 MDP_XRT_MODE_STBY
0094     BC       (c3)
0095    . C. ----------- Success Verify ?             OK / NG____
```

```
0096     C.
0097     C. XRT Obs. Table Upload
0098   . S. RAM   ram-291:MDP_OBS_X
0099     ()
0100     C.
0101  +. DC 07-F0 MDP_DUMP_XRTTBL
0102     BC       (84 07 00 00 00 3a d4)
0103   . C. ----------- Comparison Check ?                        OK / ERR ____
0104     C.
0105     C.
0106  +. DC 07-F0 MDP_XRT_ROI_SET
0107     BC       (cd 01 b1 b1 04 04)
0108  +  DC 07-F0 MDP_XRT_ROI_SET
0109     BC       (cd 02 b1 b1 08 08)
0110  +  DC 07-F0 MDP_XRT_ROI_SET
0111     BC       (cd 03 b1 b1 08 08)
0112  +  DC 07-F0 MDP_XRT_ROI_SET
0113     BC       (cd 04 b1 b1 06 06)
0114  +  DC 07-F0 MDP_XRT_ROI_SET
0115     BC       (cd 05 85 83 06 06)
0116  +  DC 07-F0 MDP_XRT_ROI_SET
0117     BC       (cd 06 85 83 06 06)
0118  +  DC 07-F0 MDP_XRT_ROI_SET
0119     BC       (cd 0f 80 80 06 06)
0120  +  DC 07-F0 MDP_XRT_ROI_SET
0121     BC       (cd 10 80 80 08 08)
0122  +  DC 07-F0 MDP_XRT_FLD_ENA
0123     BC       (d8)
0124  +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0125     BC       (c8)
0126  +  DC 07-F0 MDP_XRT_AEC_RESET
0127     BC       (d0)
0128  +  DC 07-F0 MDP_XRT_ARS_DIS
0129     BC       (d5)
0130  +  DC 07-F0 MDP_XRT_FLD_RESET
0131     BC       (da)
0132  +  DC 07-F0 MDP_XRT_QT_PROG_SET
0133     BC       (c4 06)
0134  +  DC 07-F0 MDP_XRT_FL_PROG_SET
0135     BC       (c5 08)
0136   . C. ---------- Success Verify ?            OK / NG ____
0137     C.
0138     C.
0139   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0140     C.
0141  +. DC 07-F0 MDP_XRT_MODE_OBSV
0142     BC       (c2)
0143  +. TI 2013-07-30 10:25:02.0
0144     DC 07-F0 MDP_XRT_MODE_OBSV
0145     BC       (c2)
0146   . C. ---------- Success Verify ?            OK / NG ____
0147     C.
0148     C. ************ XRT END ***********
0149     C.
0150   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0151     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0152   . S. DC-BC dcbc-402:DCBC
0153     (MDP_known_event)
0154     C.
0155     C.
0156   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0157   . S. DC-BC dcbc-153:DCBC
0158     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0159     C.
0160     C.
0161   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0162     C.
0163   . C. *********** LOS ***********
0164     C.
```

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

2013/07/30  10:35:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2013/07/30  10:36:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 00 00 00 00 00
2013/07/30  10:37:01.0  XRT_TCIB_XRT_S_HTR_A_ENA_432_OG [0x1b0]
                                TCIB_XRT_S_HTR_A_ENA 0 04-BC
2013/07/30  11:30:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 54 00 00 00
2013/07/30  12:12:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 4e d9 00 b4
2013/07/30  12:42:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                AOCU_NM              5 02-76 00 45 f3 00 b4
2013/07/30  13:50:30.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM              5 02-76 00 3d 0e 00 b4
2013/07/30  14:20:30.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                AOCU_NM              5 02-76 00 34 31 00 b4
2013/07/30  15:49:30.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                AOCU_NM              5 02-76 00 2b 4b 00 b4
2013/07/30  17:26:00.0  AOCS_ORe-point_Start_8_OG [0x09e]
                                AOCU_NM              5 02-76 00 22 66 00 b4
2013/07/30  19:03:00.0  AOCS_ORe-point_Start_9_OG [0x09f]
                                AOCU_NM              5 02-76 00 19 81 00 b4
2013/07/30  20:40:30.0  AOCS_ORe-point_Start_10_OG [0x0a0]
                                AOCU_NM              5 02-76 00 10 9b 00 b4
2013/07/30  22:16:30.0  AOCS_ORe-point_Start_11_OG [0x0a1]
                                AOCU_NM              5 02-76 00 07 be 00 b4
2013/07/30  23:43:00.0  AOCS_ORe-point_Start_12_OG [0x0a2]
                                AOCU_NM              5 02-76 00 ff bf 00 b4
2013/07/31  00:13:00.0  AOCS_ORe-point_Start_13_OG [0x0a3]
                                AOCU_NM              5 02-76 00 f6 da 00 b4
2013/07/31  01:20:00.0  AOCS_ORe-point_Start_14_OG [0x0a4]
                                AOCU_NM              5 02-76 00 ed f4 00 b4
2013/07/31  01:50:00.0  AOCS_ORe-point_Start_15_OG [0x0a5]
                                AOCU_NM              5 02-76 00 e5 0f 00 b4
2013/07/31  02:58:30.0  AOCS_ORe-point_Start_16_OG [0x0a6]
                                AOCU_NM              5 02-76 00 dc 32 00 b4
2013/07/31  04:37:00.0  AOCS_ORe-point_Start_17_OG [0x0a7]
                                AOCU_NM              5 02-76 00 d3 4c 00 b4
2013/07/31  05:07:00.0  AOCS_ORe-point_Start_18_OG [0x0a8]
                                AOCU_NM              5 02-76 00 ca 67 00 b4
2013/07/31  06:15:00.0  AOCS_ORe-point_Start_19_OG [0x0a9]
                                AOCU_NM              5 02-76 00 c1 82 00 b4
2013/07/31  06:45:00.0  AOCS_ORe-point_Start_20_OG [0x0aa]
                                AOCU_NM              5 02-76 00 b8 9c 00 b4
2013/07/31  07:53:30.0  AOCS_ORe-point_Start_21_OG [0x0ab]
                                AOCU_NM              5 02-76 00 af bf 00 b4
2013/07/31  08:16:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 00 00 00 00 00
2013/07/31  11:00:00.0  AOCS_ORe-point_Start_22_OG [0x0ac]
                                AOCU_NM              5 02-76 02 00 00 00 00
2013/08/01  05:48:30.5  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 00 00 00 00 00
2013/08/01  05:58:30.0  AOCS_ORe-point_Start_22_OG [0x0ac]
                                AOCU_NM              5 02-76 02 00 00 00 00
2013/08/01  10:43:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 00 00 00 00 00
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