

# XRT Timeline to be uploaded on 2009/03/05

Period: 2009/03/05 10:05:00 - 2009/03/10 09:55:00

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## Normal mode

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XOB #165A: Synoptic Q95 2x2 - Al/poly(362/2048) + Dark cal(256 Q98) + Ti-poly(512/4096) + G-band(16)												
Term	Pointing (x, y)		Comment									
03/05 17:58:00 - 03/05 18:04:54	Fixed (	0.0, 0.0)	synoptic, shifted -5.0 min, followed by Axion observations at disk center, and next synoptic a									
03/06 18:02:00 - 03/07 05:28:24	Fixed (	0.0, 0.0)	synoptic, shifted -1.0 min									
PROG= 13 1-time(s)												
└ Subr= 1 1-time(s) 12.0sec												
└─ Seqn= 37 1-time(s) 4.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Norm 354ms 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= 49 1-time(s) 2.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Dark 250ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec												
└─ Seqn= 89 1-time(s) 4.0sec												
└─ Open/Ti-poly Open/Ti-poly close Safe Norm 500ms 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												
└─ Open/G-band Open/G-band open Safe Norm 16ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec												
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval												

XOB #15CF: Axion_Study_no-AEC_Med-Be-12s-2												
Term	Pointing (x, y)		Comment									
03/05 18:07:00 - 03/06 05:59:54	Fixed (	0.0, 0.0)	synoptic, shifted -5.0 min, followed by Axion observations at disk center, and next synoptic a									
PROG= 11 Inf.-time(s)												
└ Subr= 1 1-time(s) 2.0sec												
└─ Seqn= 15 12-time(s) 4.0sec												
└─ med-Be/Open med-Be/Open close Safe Norm 11.3s Obs 8x8 2048x2048 (1024, 1024) DPCM 0 0 20.0sec												
└ Subr= 2 1-time(s) 2.0sec												
└─ Seqn= 61 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												

XOB #165B: Synoptic Q95 2x2 - Al/mesh(256/2048) + Dark cal(256 Q98) + Ti-poly(512/4096) + G-band(16)												
Term	Pointing (x, y)		Comment									
03/06 06:03:00 - 03/06 06:09:54	Fixed (	0.0, 0.0)	synoptic, shifted -5.0 min, followed by Axion observations at disk center, and next synoptic a									
03/07 05:31:30 - 03/10 09:55:00	Fixed (	0.0, 0.0)	synoptic, shifted -31.5 min									
PROG= 14 1-time(s)												
└ Subr= 1 1-time(s) 12.0sec												
└─ Seqn= 68 1-time(s) 4.0sec												
└─ 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 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec												
└─ Seqn= 50 1-time(s) 2.0sec												
└─ Open/Al-mesh Open/Al-mesh close Safe Dark 250ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec												
└─ Seqn= 89 1-time(s) 4.0sec												
└─ Open/Ti-poly Open/Ti-poly close Safe Norm 500ms 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												
└─ Open/G-band Open/G-band open Safe Norm 16ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec												
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval												

XOB #1661: Bright point - multifilter - 512x512 - AEC 4 - Q95-2												
Term	Pointing (x, y)		Comment									
03/06 06:13:00 - 03/06 17:58:54	Track (	166.4, -301.4)	# Track bright patch continuously, for EIS long-duration slot studies.									
PROG= 19 Inf.-time(s)												
└ Subr= 1 1-time(s) 2.0sec												
└─ Seqn= 53 10-time(s) 240.0sec												
└─ Al-poly/Open Al-poly/thick-Al close Safe Norm 16.0s Obs 1x1 512x512 (1024, 1024) Q=95 4 0 2.0sec												
└─ C-poly/Open thin-Be/Open close Safe Norm 16.0s Obs 1x1 512x512 (1024, 1024) Q=95 4 0 2.0sec												
└─ thin-Be/Open med-Be/Open close Safe Norm 32.0s Obs 1x1 512x512 (1024, 1024) Q=95 4 0 2.0sec												
└─ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 16.0s Obs 1x1 512x512 (1024, 1024) Q=95 4 0 2.0sec												
└─ Open/Ti-poly Open/thick-Al close Safe Norm 16.0s Obs 1x1 512x512 (1024, 1024) Q=95 4 0 2.0sec												
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval												

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## Flare mode

\* \* \* \* \*

NOT USED

\* \* \* \* \*

## Active Region Search

\* \* \* \* \*

NOT USED

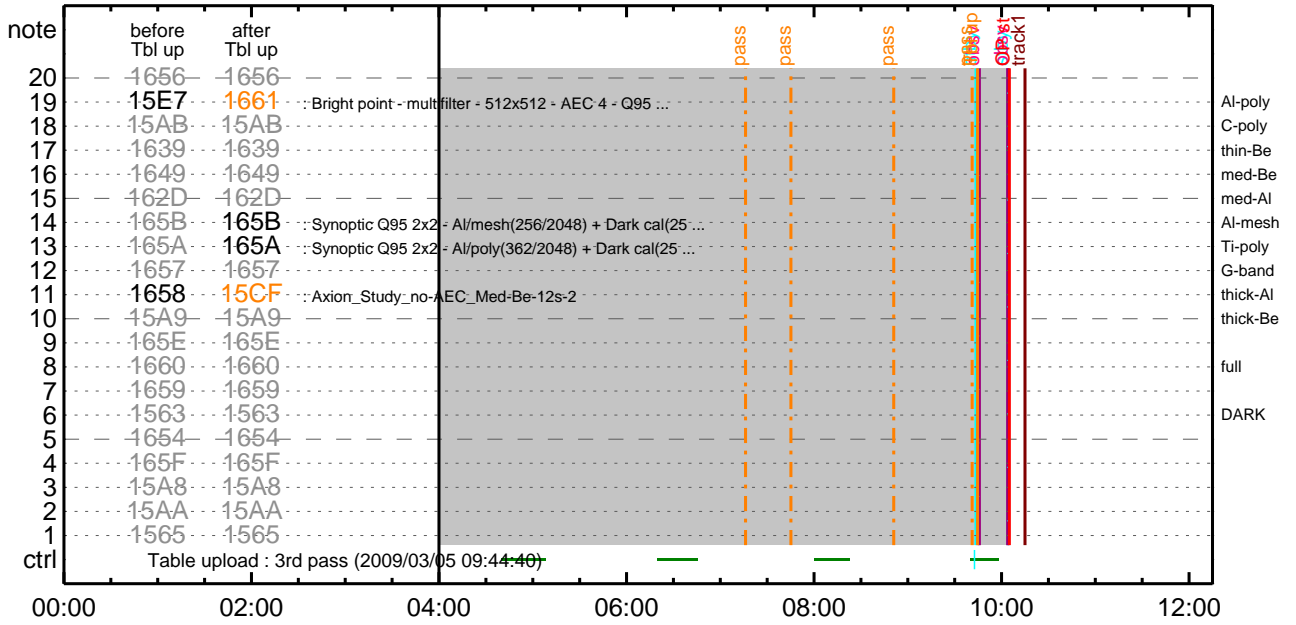
\* \* \* \* \*

## Flare Detection

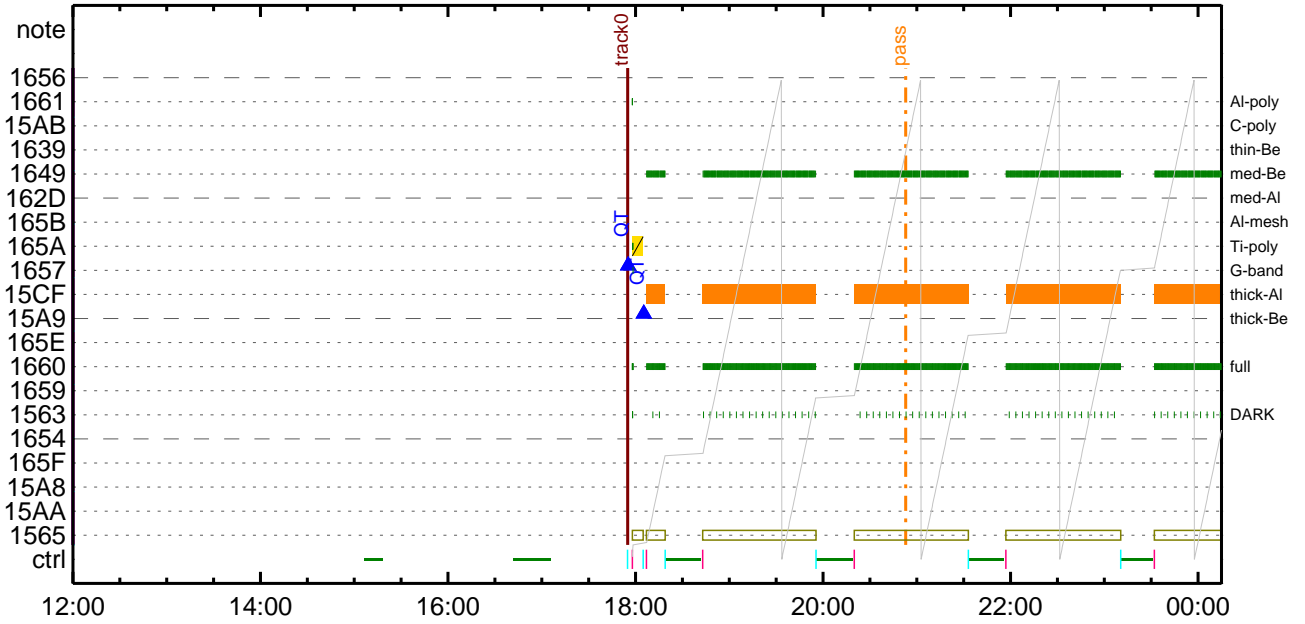
\* \* \* \* \*

NOT USED

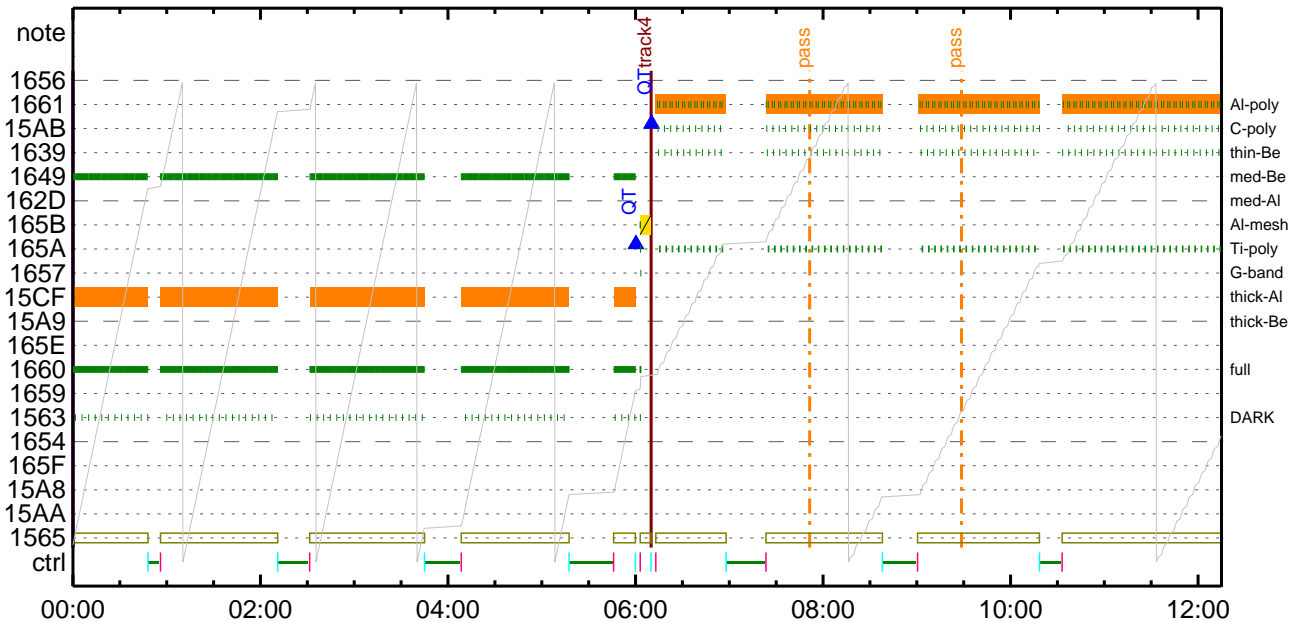
### CMDI #0434 2009/03/05



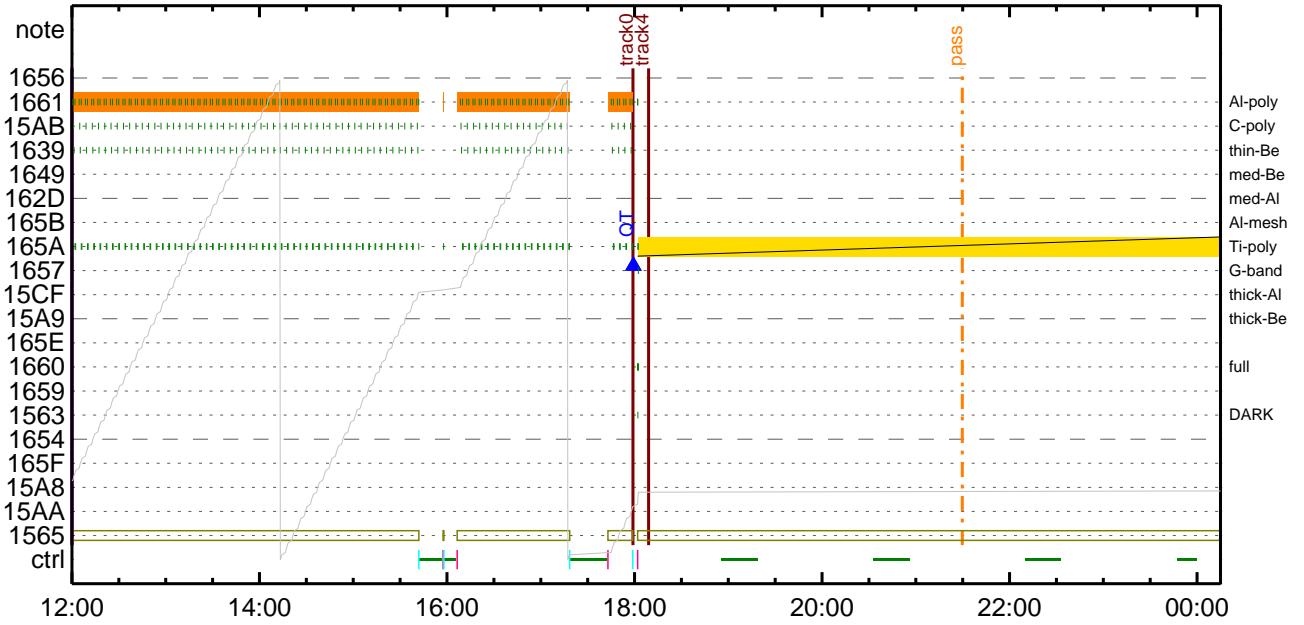
### CMDI #0434 2009/03/05



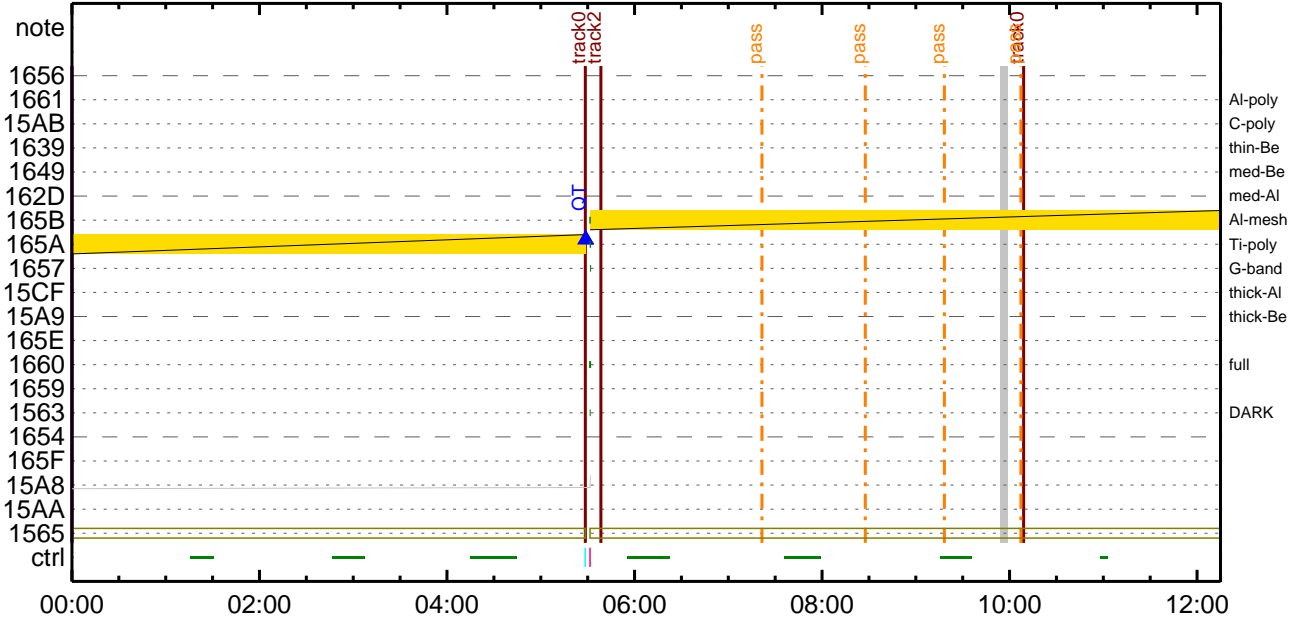
### CMDI #0434 2009/03/06



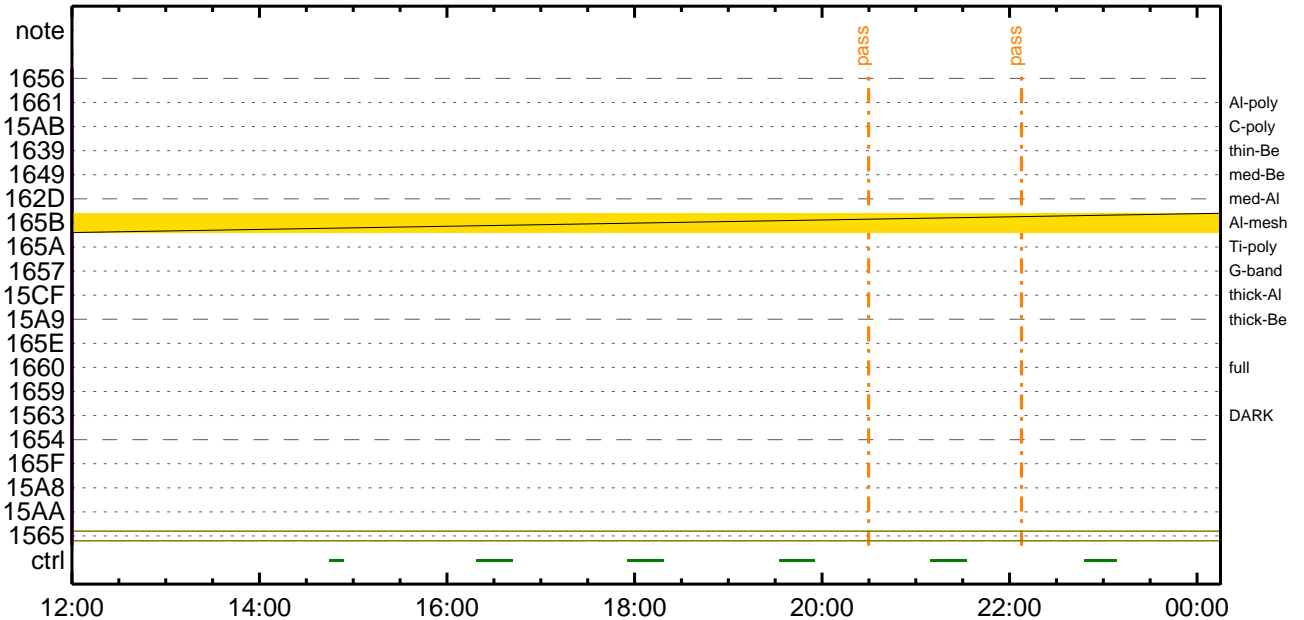
CMDI #0434 2009/03/06



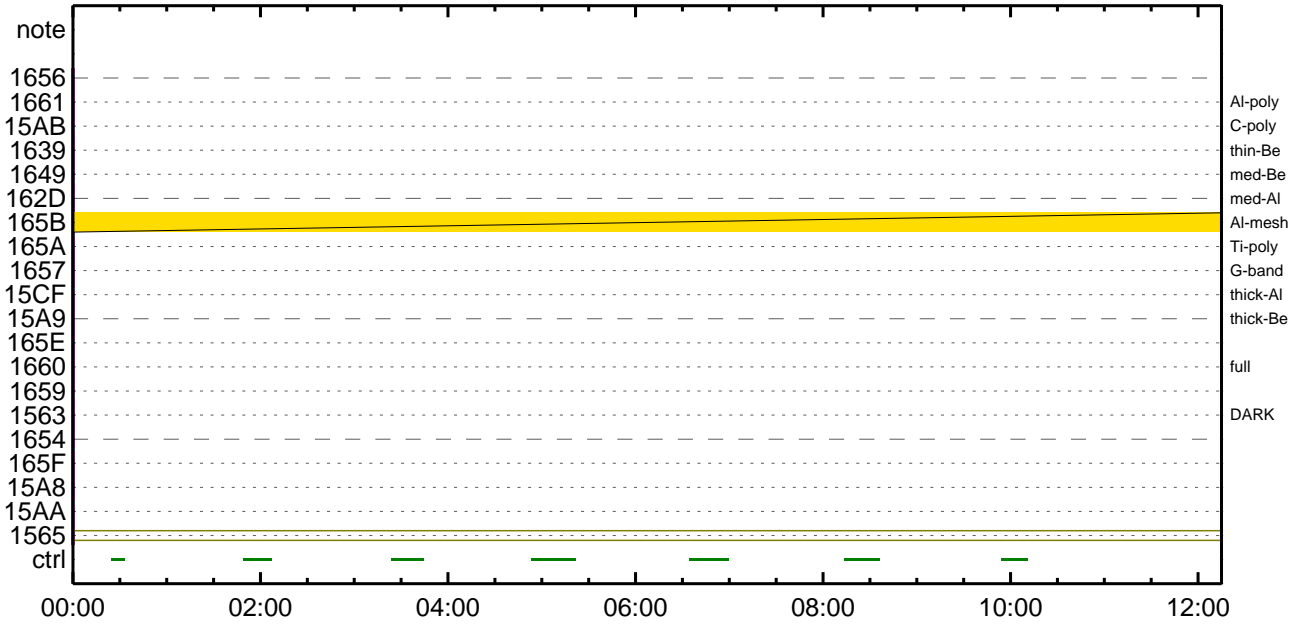
CMDI #0434 2009/03/07



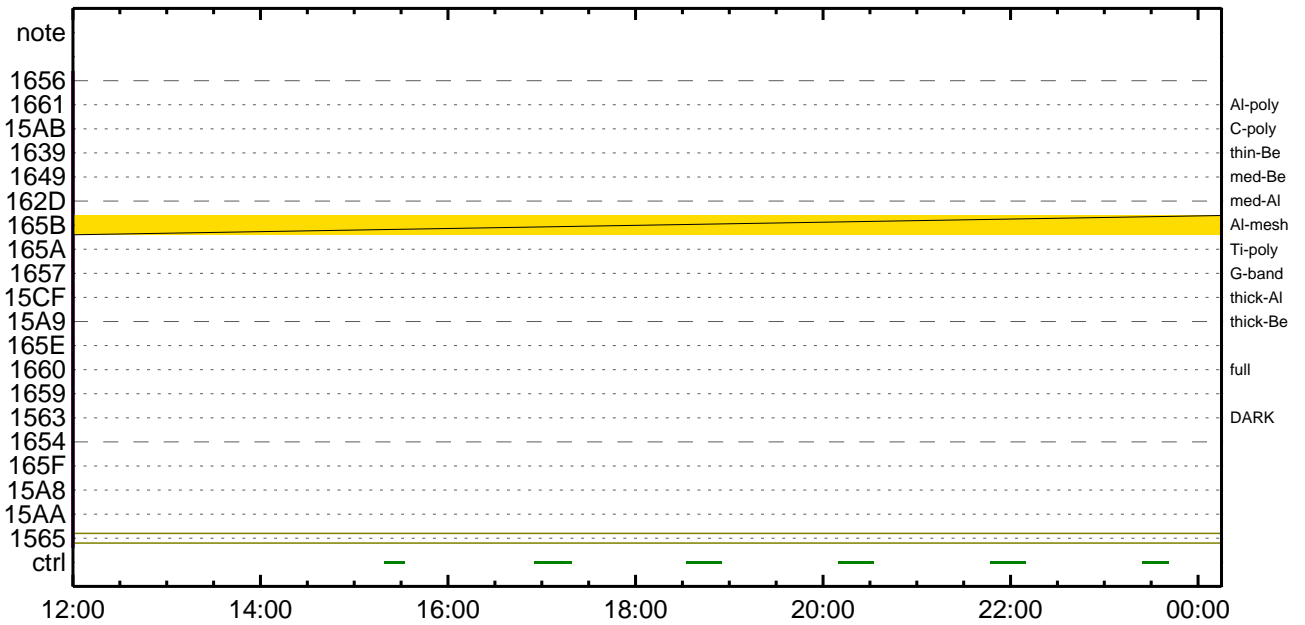
CMDI #0434 2009/03/07



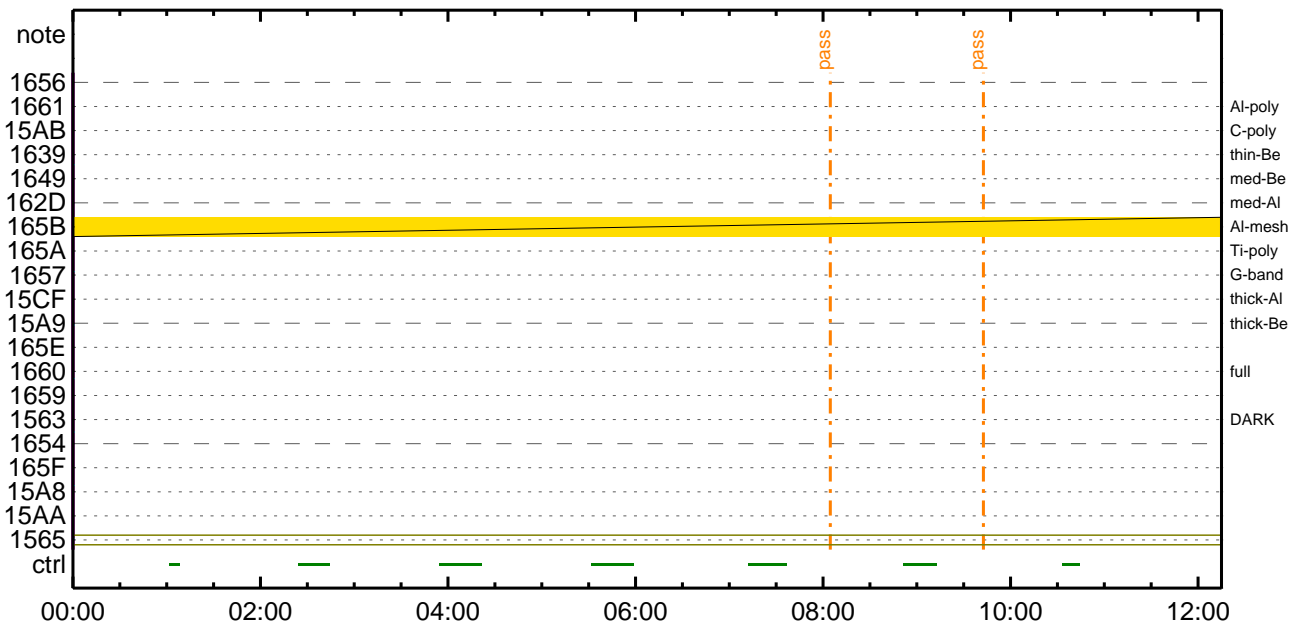
CMDI #0434 2009/03/08



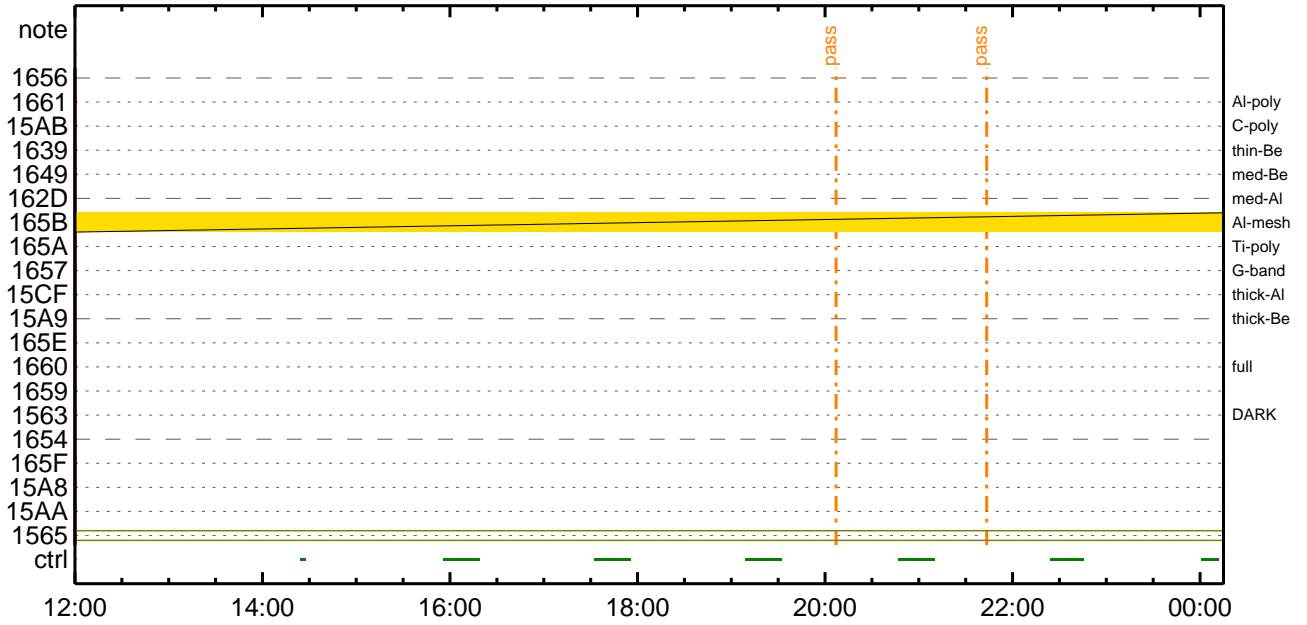
CMDI #0434 2009/03/08



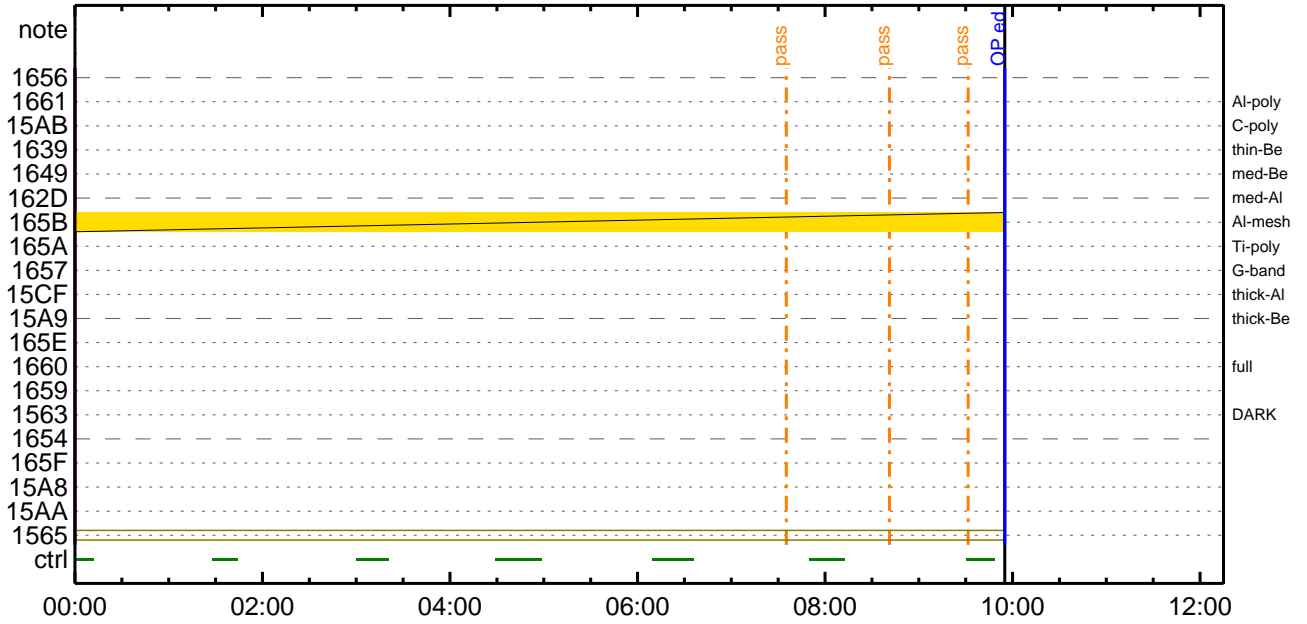
CMDI #0434 2009/03/09



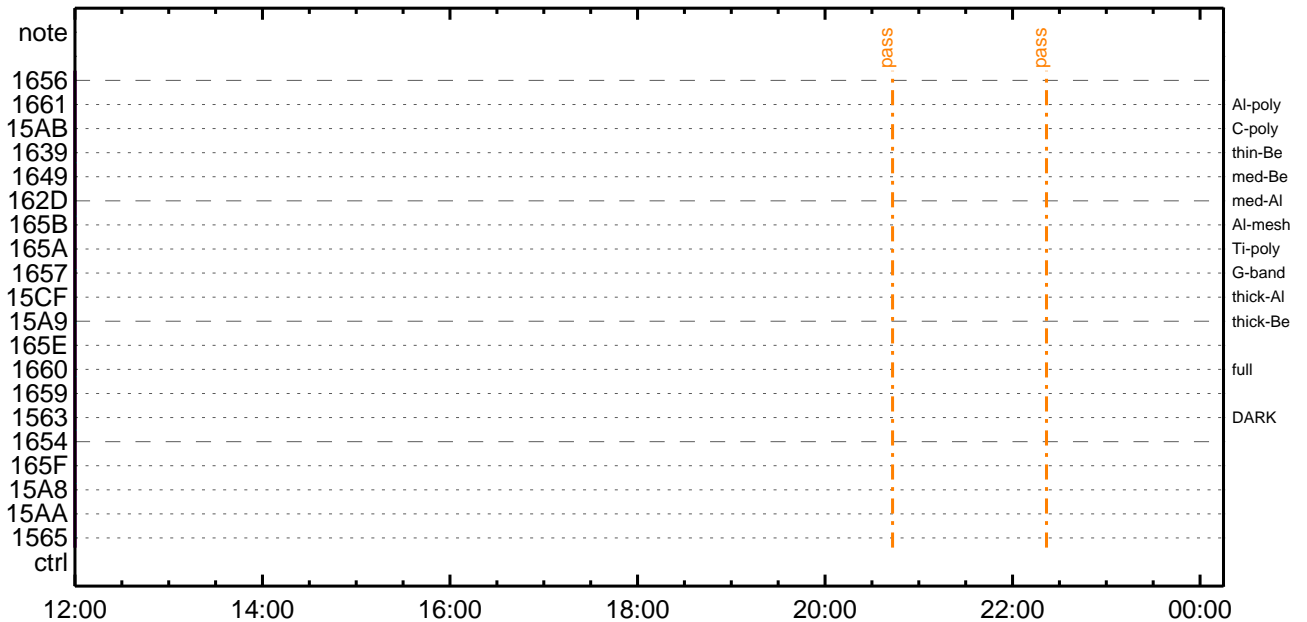
CMDI #0434 2009/03/09



CMDI #0434 2009/03/10



CMDI #0434 2009/03/10





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0096 C.          0300; SET 03EDUMP 03E0 03E1 03E2 03E3 03E4 03E5 03E6 03E7 03E8 03E9 03EA 03EB 03EC
0097 C.
0098 . C. TI 2009-03-05 10:00:00.0
0099 +. TI 2009-03-05 10:00:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.          [HK1_TI_CMD_NUM] EQ 1COUNTUP
0102 C.
0103 +. TI 2009-03-05 10:00:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.          [HK1_TI_CMD_NUM] EQ 1COUNTUP
0106 C.
0107 +. TI 2009-03-05 10:00:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.          [HK1_TI_CMD_NUM] EQ 1COUNTUP
0110 C.
0111 +. TI 2009-03-05 10:04:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.          [HK1_TI_CMD_NUM] EQ 1COUNTUP
0114 C.
0115 C.          03E0 03E1 03E2 03E3 03E4 03E5 03E6 03E7 03E8 03E9 03EA 03EB 03EC
0116 C.          [HK1_TI_CMD_ENA/DIS] EQ ENA
0117 C.          [HK1_TI_CMD_NUM] EQ 4
0118 C.          [HK1_NEXT_EXEC_PIM] EQ DHU
0119 C.          [HK1_NEXT_EXEC_DC] EQ 0xB3
0120 C.
0121 . C. *****
0122 C. TI 2009-03-05 10:04:59.5
0123 C. *****
0124 C.
0125 C. TI_TBL(0x03AB00-0x03AEFF; 1024byte)
0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127 BC          (03 ab 03 01 02)
0128 C.          [HK1_DMP_TOP_ADRS_1] EQ 07
0129 C.          [HK1_DMP_TOP_ADRS_0] EQ 2B
0130 C.          [HK1_DMP_BLOCK_NUM] EQ 3
0131 C.          [HK1_DMP_REPEAT_NUM] EQ 0
0132 C.          [HK1_DMA_DMP_PIM] EQ DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC          (07 0b f8)
0135 C.          [HK1_PKT_FORM_NO] EQ 7
0136 C.          [HK1_PKT_GEN_TIME] EQ 0.25 s
0137 C.          [HK1_S_TLM_BIT_RATE] EQ 32k
0138 C.          [HK1_X_TLM_BIT_RATE] EQ 4M
0139 C.          [HK1_DMP_CHK_FLG] EQ EXEC
0140 C.
0141 . C.          03E0 03E1 03E2 03E3 03E4 03E5 03E6 03E7 03E8 03E9 03EA 03EB 03EC
0142 C.          [HK1_DMP_CHK_FLG] EQ NON
0143 C.
0144 . C. RAM ID=TI_TBL 03E0 03E1 03E2 03E3 03E4 03E5 03E6 03E7 03E8 03E9 03EA 03EB 03EC
0145 C.
0146 . C. DHU 03E0 03E1 03E2 03E3 03E4 03E5 03E6 03E7 03E8 03E9 03EA 03EB 03EC
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC          (02 0a f8)
0149 C.          [HK1_PKT_FORM_NO] EQ 2
0150 C.          [HK1_PKT_GEN_TIME] EQ 0.5S
0151 C.          [HK1_S_TLM_BIT_RATE] EQ 32K
0152 C.          [HK1_X_TLM_BIT_RATE] EQ 4M
0153 C.
0154 C. *****
0155 C. SOT TI command set
0156 C. *****
0157 C. Execute, after the success of OP upload.
0158 +. TI 2009-03-05 10:04:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC          (41)
0161 . C.
0162 C.          HK1_TI_CMD_NUM = 1 CNTUP [ ]
0163 C.
0164 C. ***** SOT END *****
0165 . C. Stop EIS observation and temporarily disable EIS mode changes
0166 C.
0167 C.
0168 C. ***** Start EIS operation (TI set) *****
0169 C. Execute, after the success of OP upload.
0170 C. Set EIS TI-commands
0171 +. TI 2009-03-05 10:04:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC          (21 02)
0174 +. TI 2009-03-05 10:04:40.0
0175 DC 07-FC EIS_MODE_CHG_DIS
0176 BC          (22)
0177 . C.          [ ] [HK1_TI_CMD_NUM] EQ 2 COUNTUP
0178 C. ***** End EIS operation (TI set) *****
0179 C.
0180 C.
0181 C.
0182 C. ***** XRT START *****
0183 C. Execute, after the success of OP upload.
0184 +. TI 2009-03-05 10:04:00.0
0185 DC 07-F0 MDP_XRT_MODE_STBY
0186 BC          (c3)
0187 . C.          [ ] [HK1_TI_CMD_NUM] EQ 1COUNTUP
0188 C.
0189 C. ***** XRT END *****
0190 C.
0191 . C. ***** MDP 03E0 03E1 03E2 03E3 03E4 03E5 03E6 03E7 03E8 03E9 03EA 03EB 03EC *****
0192 C.          (03E0 03E1 03E2 03E3 03E4 03E5 03E6 03E7 03E8 03E9 03EA 03EB 03EC)
0193 . S. DC-BC dcbc-402:DCBC

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0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥ÐŸ!•İ Daily±;İÑøĒ'Øσ¹αēDCBC•x²è *****
0198 . S. DC-BC dcbc-153:DCBC
0199 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200 C.
0201 C.
0202 . C. ;ãLOS¥Á¥S¥Ã¥~¼Â»Ü;ã
0203 C.
0204 . C. ***** LOS *****
0205 C.
```



0096 C.  
0097 C.  
0098 . C. \*\*\*\*\* AOCS Commands (Tracking Curve Upload) \*\*\*\*\*  
0099 C. Upload the Orbit Element and the Target Attitude  
0100 C. RAM-ID:TARGET\_ATT  
0101 . S. RAM ram-150:TARGET\_ATT  
0102 ( )  
0103 C.  
0104 C.  
0105 C. Set the dump memory area of TARGET\_ATT  
0106 +. DC 02-48 AOCU\_DUMP\_SET  
0107 BC (07 00 00 00 18 00)  
0108 C.  
0109 C. <A\_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]  
0110 C.  
0111 C.  
0112 C. Change the TLMFormatNo for the AOCS Dump Format  
0113 +. DC 01-22 DHU\_MODE\_CHNG  
0114 BC (04 0b f8)  
0115 C.  
0116 C. Wait for 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 19s  
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 2009-03-05 10:04:50.0  
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 'ûÃîãî»ò¼ÝðËÄð¹æDCBC•x²è \*\*\*\*\*  
0153 C. (%ã°îÿÓÿÄÿËÿPÿËÿâÿçÿÈÿ¼¼¼¼»Û¹æè)  
0154 . S. DC-BC dcbc-402:DCBC  
0155 (MDP\_known\_event)  
0156 C.  
0157 C.  
0158 . C. \*\*\*\*\* ÿÐÿ¹•Ï Daily±çÏÑæ´Ø¹æDCBC•x²è \*\*\*\*\*  
0159 . S. DC-BC dcbc-153:DCBC  
0160 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0161 C.  
0162 C.  
0163 . C. ;ãLO\$ÿÁÿ\$ÿÅÿ-¼Ä»Û;ã  
0164 C.  
0165 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0166 C.

(a) Spacecraft Operation Procedure (real-commands)

```
main-453 2009-03-05 11:35:36 108 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁY$;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿¿ãã•µ°È»Í×ÁÇ¿ÍYçYÁY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈÈÈ¼°ÇÓã•¿¿¼í¹çãí;çÁ®, ùã¹ãèãããçÁ+¿®ã•ãÈããã³ãÈ;f
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 20 20)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 80 80 08 08)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 0f 80 80 04 04)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 10 80 80 10 10)
0048 . C. ----- Success Verify ? OK / NG ____
0049 C.
0050 C.
0051 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0052 C.
0053 +. DC 07-F0 MDP_XRT_MODE_OBSV
0054 BC (c2)
0055 +. TI 2009-03-05 10:04:02.0
0056 DC 07-F0 MDP_XRT_MODE_OBSV
0057 BC (c2)
0058 . C. ----- Success Verify ? OK / NG ____
0059 C.
0060 C. ***** XRT END *****
0061 . C. *****
0062 C. SOT table upload
0063 C. *****
0064 . C. < Stop FG table >
0065 +. DC 07-F0 MDP_FG_CTRL_MANU
0066 BC (51)
0067 . C. -----
0068 C. MDP_FG_CTRL_MODE = MANU [ ]
0069 C. -----
0070 C.
0071 . C. <Upload FG Observation Table>
0072 . S. RAM ram-267:MDP_OBS_F
0073 ( )
0074 C.
0075 . C. < Dump RAMID=MDP_OBS_F >
0076 +. DC 07-F0 MDP_DUMP_FGTBL
0077 BC (82 07 00 00 00 38 b8)
0078 C. -----
0079 C. MDP_OBS_F verify = OK/NG [ ]
0080 C. -----
0081 C.
0082 C. *****
0083 C. SOT TI command set
0084 C. *****
0085 C. Execute, after the success of TBL upload.
0086 +. TI 2009-03-05 10:04:18.0
0087 DC 07-F0 MDP_SOT_MODE_OBSV
0088 BC (40)
0089 . C. -----
0090 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0091 C. -----
0092 C.
0093 C.
0094 . C. ***** MDP 'úÁíãí»ö¼YãÉÁã¹ãèDCBC•x²è *****
0095 C. (%ã°íYÓYÁYÈYÈYÈYáYçYèÈ¼ãã¼Á»Û¹ãè)
```

```
0096 . S. DC-BC dcbc-402:DCBC
0097 (MDP_known_event)
0098 C.
0099 C.
0100 . C. ***** ¥D¥1•İ Daily±;İÑñĒ'Øα¹αēDCBC•x²è *****
0101 . S. DC-BC dcbc-153:DCBC
0102 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0103 C.
0104 C.
0105 . C. ;äLOS¥Á¥S¥Ä¥-¼Ä»Û;ä
0106 C.
0107 . C. ***** LOS *****
0108 C.
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Mar 05, 09 11:35

## XRT\_OGLIST\_0434.chk

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\*\*\* OP Sequence for XRT \*\*\*

2009/03/05	10:15:00.0	AOCS_Ore-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	01	00	00	00	00
2009/03/05	17:54:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/05	17:54:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2009/03/05	17:55:00.0	AOCS_Ore-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00	00	00	00	00
2009/03/05	17:55:16.0	XRT_QT_PROG_SET_405_OG [0x195]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	0d			
2009/03/05	17:55:18.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/03/05	17:55:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/03/05	17:55:22.0	XRT_ARS_DIS_410_OG [0x19a]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/03/05	17:58:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/05	18:04:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/05	18:04:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2009/03/05	18:05:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	0b			
2009/03/05	18:05:18.0	XRT_AEC_RESET_415_OG [0x19f]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2009/03/05	18:05:20.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/03/05	18:05:22.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/03/05	18:05:24.0	XRT_FLRCTRL_DIS_449_OG [0x1c1]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/03/05	18:07:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/05	18:19:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/05	18:42:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/05	18:43:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/05	19:55:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/05	20:19:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/05	20:20:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/05	21:33:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/05	21:56:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/05	21:57:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/05	23:10:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/05	23:31:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/05	23:32:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/06	00:48:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/06	00:55:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	00:56:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/06	02:11:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/06	02:30:30.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	02:31:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/06	03:45:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/06	04:07:30.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	04:08:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/06	05:17:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/06	05:45:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	05:46:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/06	05:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/06	05:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2009/03/06	06:00:16.0	XRT_QT_PROG_SET_426_OG [0x1aa]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	0e			
2009/03/06	06:00:18.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/03/06	06:00:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/03/06	06:00:22.0	XRT_ARS_DIS_410_OG [0x19a]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/03/06	06:03:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/03/06	06:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/03/06	06:09:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							

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2009/03/06	06:10:00.0	AOCS_ORe-point_Start_3_OG [0x099]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
		AOCU_NM		5	02-76	04	00	00	00
2009/03/06	06:10:16.0	XRT_QT_PROG_SET_401_OG [0x191]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	13		
2009/03/06	06:10:18.0	XRT_AEC_RESET_415_OG [0x19f]	MDP_XRT_AEC_RESET	1	07-F0	d0			
2009/03/06	06:10:20.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/03/06	06:10:22.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/03/06	06:10:24.0	XRT_FLRCTRL_DIS_406_OG [0x196]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/03/06	06:13:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/06	06:58:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/03/06	07:22:30.5	XRT_Custom_430_OG [0x1ae]							
2009/03/06	07:23:30.5	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/06	08:38:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/03/06	08:59:30.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	09:00:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/06	10:18:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/03/06	10:32:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	10:33:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/06	15:42:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/03/06	15:56:30.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	15:57:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/06	15:58:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/03/06	16:05:30.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	16:06:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/06	17:18:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/03/06	17:42:00.0	XRT_Custom_430_OG [0x1ae]							
2009/03/06	17:43:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/06	17:58:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/03/06	17:58:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
2009/03/06	17:59:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00
2009/03/06	17:59:16.0	XRT_QT_PROG_SET_405_OG [0x195]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0d		
2009/03/06	17:59:18.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/03/06	17:59:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/03/06	17:59:22.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/03/06	18:02:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/06	18:09:00.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	04	00	00	00
2009/03/07	05:28:24.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/03/07	05:28:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
2009/03/07	05:28:30.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00
2009/03/07	05:28:46.0	XRT_QT_PROG_SET_426_OG [0x1aa]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0e		
2009/03/07	05:28:48.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/03/07	05:28:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/03/07	05:28:52.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/03/07	05:31:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/03/07	05:38:30.0	AOCS_ORe-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	02	00	00	00
2009/03/07	10:09:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00