

# XRT Timeline to be uploaded on 2008/08/19

Period: 2008/08/19 10:58:00 - 2008/08/23 10:31:00

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## Normal mode

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<b>XOB #15B2: XBP Q90 Al/poly (AEC4) + Ti/poly (AEC4) + Thin-Be (AEC0)-high cadence</b>																							
Term	Pointing (x, y)						Comment																
08/19 11:26:00 - 08/19 17:40:00	Track ( -541.0, -26.2) @ 08/19 11:08:00	# OP start + 10min/ EIS magnetic cancelation study																					
08/19 18:29:30 - 08/20 06:02:54	Track ( -484.4, -30.7) @ 08/19 18:27:30	# Quiet Sun Brightenings																					
08/20 06:15:00 - 08/20 16:39:00	Track ( -388.5, -36.9) @ 08/20 06:13:00	# X-ray Bright Points																					
<b>PROG= 14 Inf.-time(s)</b>																							
└─ Subr= 1 1-time(s) 400.0sec																							
└─ Seqn= 93 10-time(s) 60.0sec																							
└─ Al-poly/Open C-poly/Open close Safe Norm 250ms Obs 1x1 384x384 (1024, 1024) Q=90 4 0 2.0sec																							
└─ Open/Ti-poly Open/thick-Al close Safe Norm 1.00s Obs 1x1 384x384 (1024, 1024) Q=90 4 0 2.0sec																							
└─ Subr= 2 1-time(s) 4.0sec																							
└─ Seqn= 43 1-time(s) 4.0sec																							
└─ thin-Be/Open thin-Be/Open close Safe Norm 64.0s Obs 1x1 384x384 (1024, 1024) Q=90 0 0 2.0sec																							
<table style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 10%;">Default Filter</td> <td style="width: 10%;">Thicker Filter</td> <td style="width: 10%;">VLS</td> <td style="width: 10%;">mode</td> <td style="width: 10%;">image</td> <td style="width: 10%;">Exp.</td> <td style="width: 10%;">CCD</td> <td style="width: 10%;">Bin</td> <td style="width: 10%;">ROI: size (center)</td> <td style="width: 10%;">Comp.</td> <td style="width: 10%;">AEC Buffer</td> <td style="width: 10%;">Interval</td> </tr> </table>												Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval												

<b>XOB #15B3: Synoptic Q95 2x2 - Al/poly(1024/11571) + Dark cal(512 Q98) + Ti-poly(2048/23142) + G-band(16)</b>																							
Term	Pointing (x, y)						Comment																
08/19 18:19:30 - 08/19 18:27:24	Fixed ( 0.0, 0.0)	synoptic, shifted 17.5 min																					
08/20 18:02:00 - 08/20 18:09:54	Fixed ( 0.0, 0.0)	synoptic, at this time and at 06:07:00 (8/21); disk-center pointing for rest of plan.																					
<b>PROG= 20 1-time(s)</b>																							
└─ Subr= 1 1-time(s) 12.0sec																							
└─ Seqn= 6 1-time(s) 4.0sec																							
└─ Al-poly/Open Al-poly/thick-Al close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec																							
└─ Al-poly/Open Al-poly/thick-Al close Safe Norm 11.3s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec																							
└─ Seqn= 72 1-time(s) 2.0sec																							
└─ Open/Al-mesh Open/Al-mesh close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Seqn= 89 1-time(s) 4.0sec																							
└─ Open/Ti-poly Open/thick-Al close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec																							
└─ Open/Ti-poly Open/thick-Al close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 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																							
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Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval												

<b>XOB #15B4: Synoptic Q95 2x2 - Al/mesh(1024/11571) + Dark cal(512 Q98) + Ti-poly(2048/23142) + G-band(16)</b>																							
Term	Pointing (x, y)						Comment																
08/20 06:05:00 - 08/20 06:12:54	Fixed ( 0.0, 0.0)	synoptic, shifted 3.0 min																					
08/21 06:09:00 - 08/21 06:16:54	Fixed ( 0.0, 0.0)	synoptic, at this time and at 06:07:00 (8/21); disk-center pointing for rest of plan.																					
<b>PROG= 03 1-time(s)</b>																							
└─ Subr= 1 1-time(s) 12.0sec																							
└─ Seqn= 23 1-time(s) 4.0sec																							
└─ Open/Al-mesh Open/Ti-poly close Safe Norm 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec																							
└─ Open/Al-mesh Open/Ti-poly close Safe Norm 11.3s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec																							
└─ Seqn= 72 1-time(s) 2.0sec																							
└─ Open/Al-mesh Open/Al-mesh close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Seqn= 89 1-time(s) 4.0sec																							
└─ Open/Ti-poly Open/thick-Al close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec																							
└─ Open/Ti-poly Open/thick-Al close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 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																							
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<b>XOB #15B5: CCD calibration: Dark only with Low Rate</b>																							
Term	Pointing (x, y)						Comment																
08/20 19:00:06 - 08/21 06:06:54	Fixed ( 0.0, 0.0)	synoptic, at this time and at 06:07:00 (8/21); disk-center pointing for rest of plan.																					
<b>PROG= 13 2-time(s)</b>																							
└─ Subr= 1 1-time(s) 2.0sec																							
└─ Seqn= 67 1-time(s) 2.0sec																							
└─ Al-poly/Open Al-poly/Open close Safe Dark 1.00s Obs 1x1 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Al-poly/Open Al-poly/Open close Safe Dark 32.0s Obs 1x1 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Al-poly/Open Al-poly/Open close Safe Dark 1.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Al-poly/Open Al-poly/Open close Safe Dark 32.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Al-poly/Open Al-poly/Open close Safe Dark 1.00s Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Al-poly/Open Al-poly/Open close Safe Dark 32.0s Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Al-poly/Open Al-poly/Open close Safe Dark 1.00s Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
└─ Al-poly/Open Al-poly/Open close Safe Dark 32.0s Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec																							
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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

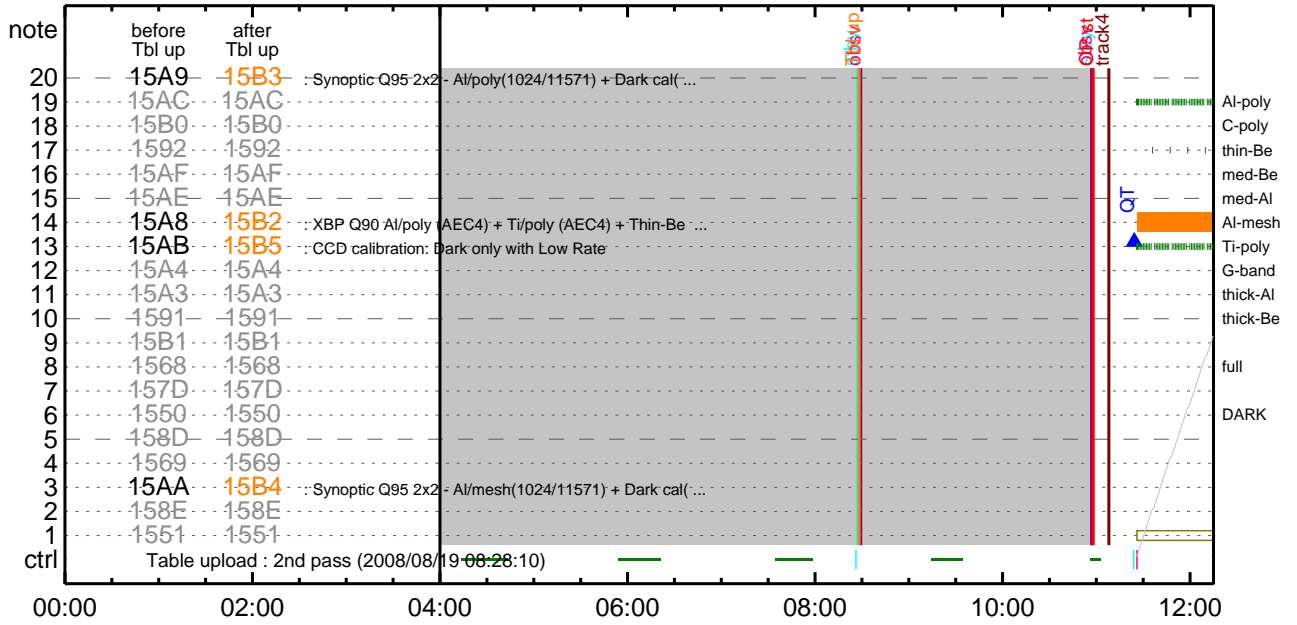
\* \* \* \* \*

**Flare Detection**

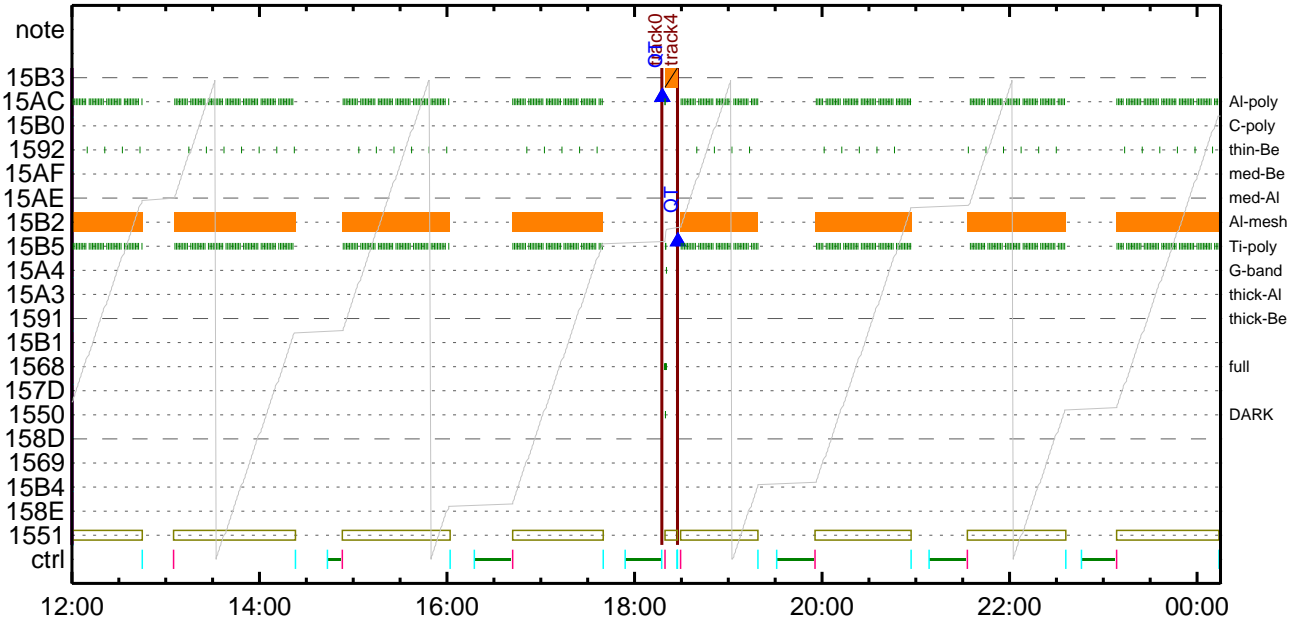
\* \* \* \* \*

NOT USED

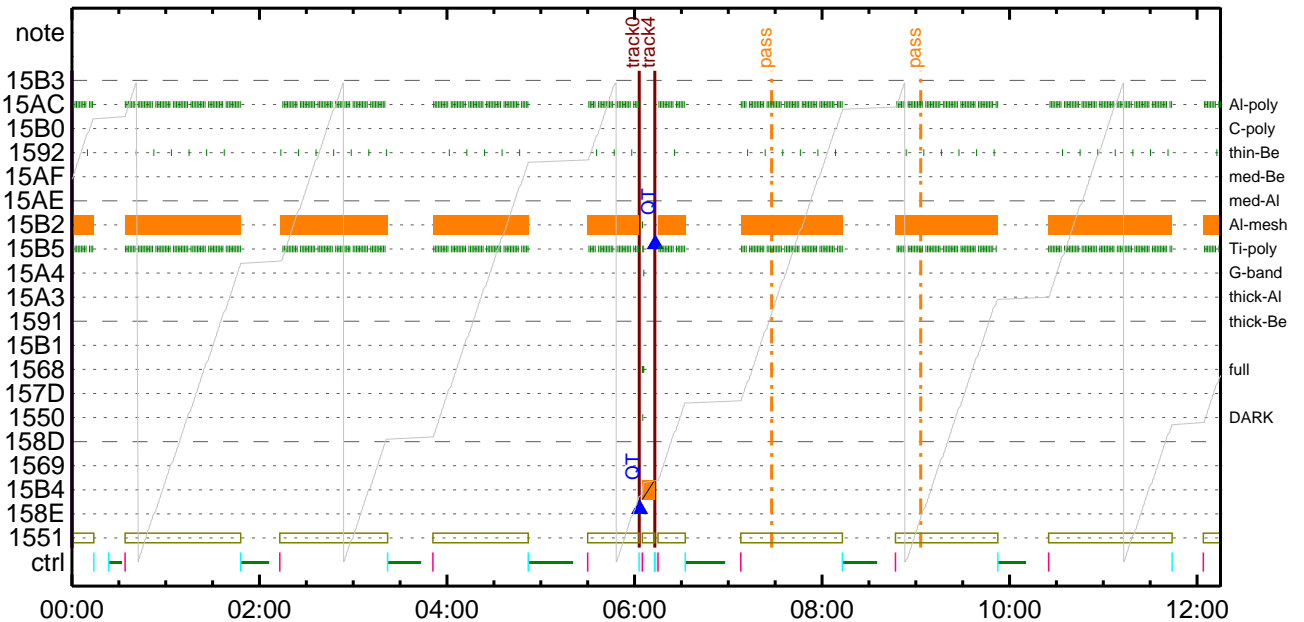
### CMDI #0092 2008/08/19



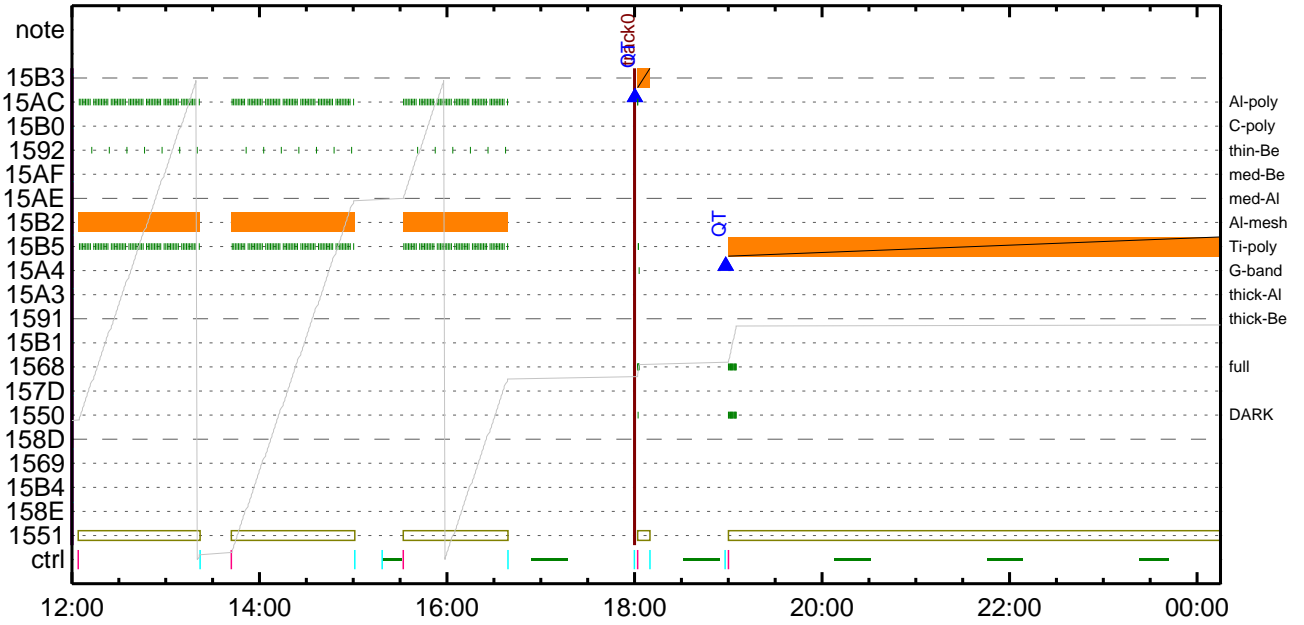
### CMDI #0092 2008/08/19



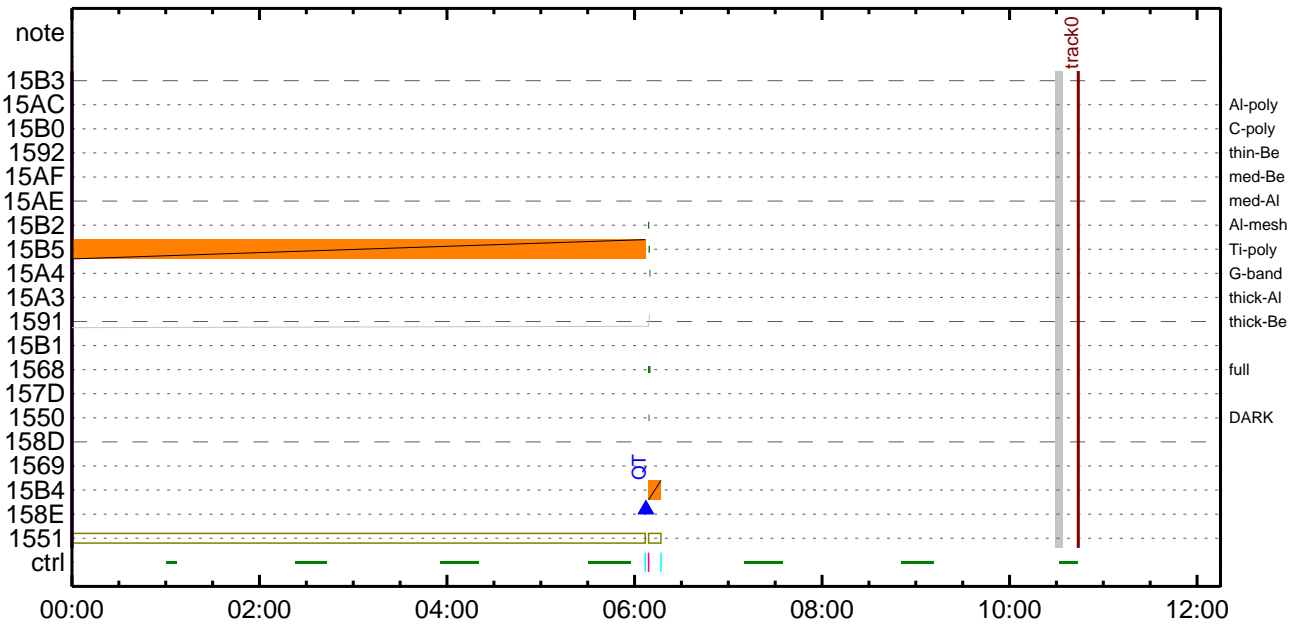
### CMDI #0092 2008/08/20



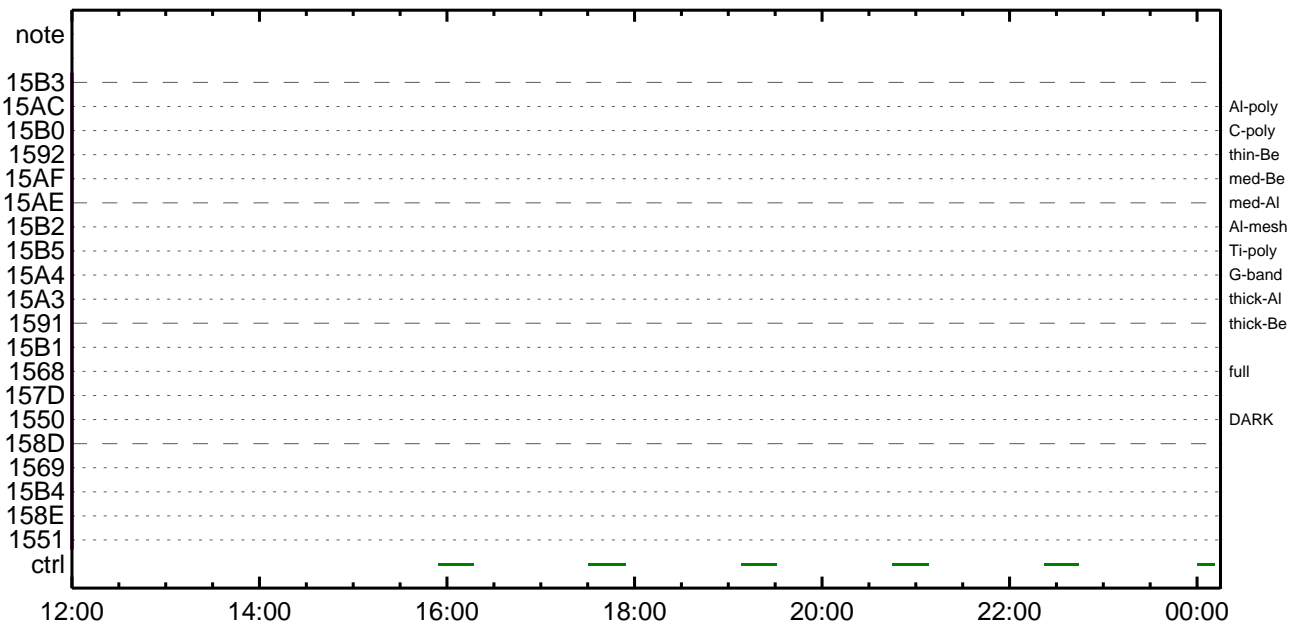
CMDI #0092 2008/08/20



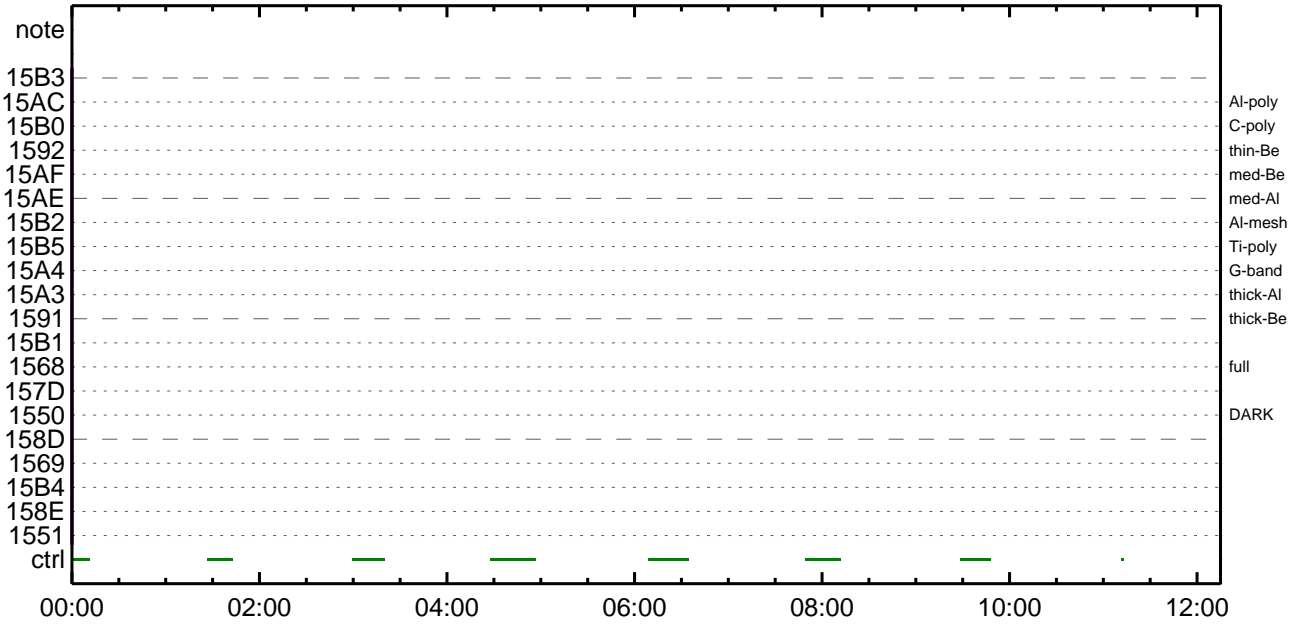
CMDI #0092 2008/08/21



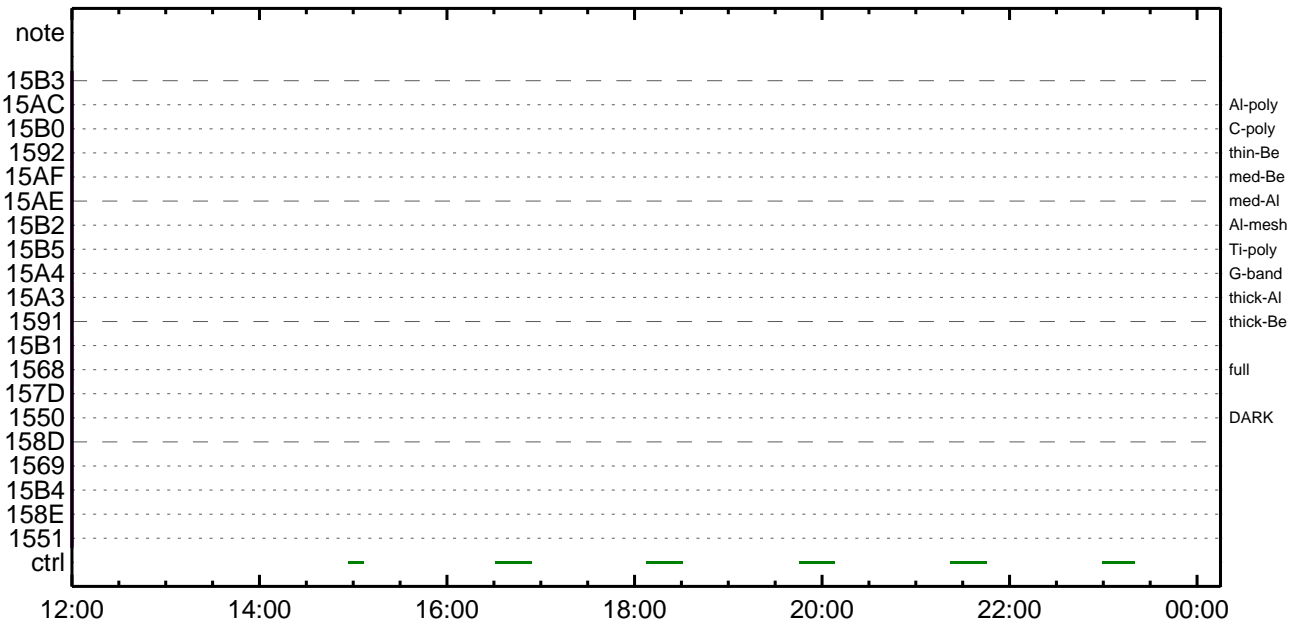
CMDI #0092 2008/08/21



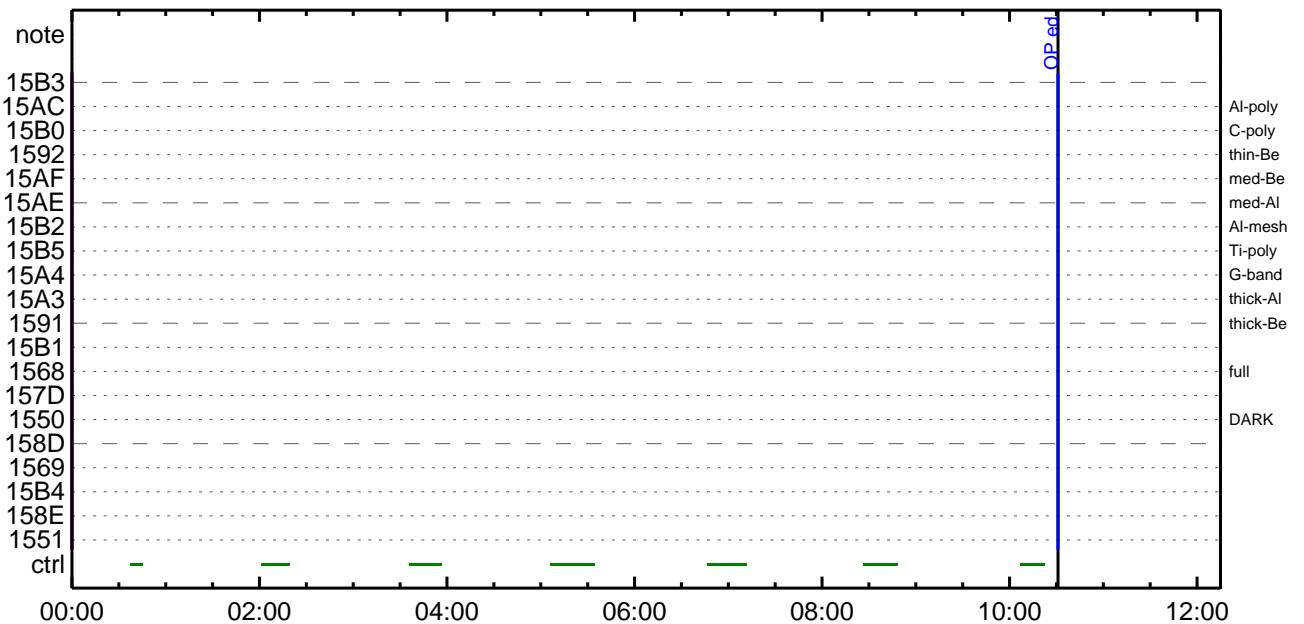
CMDI #0092 2008/08/22

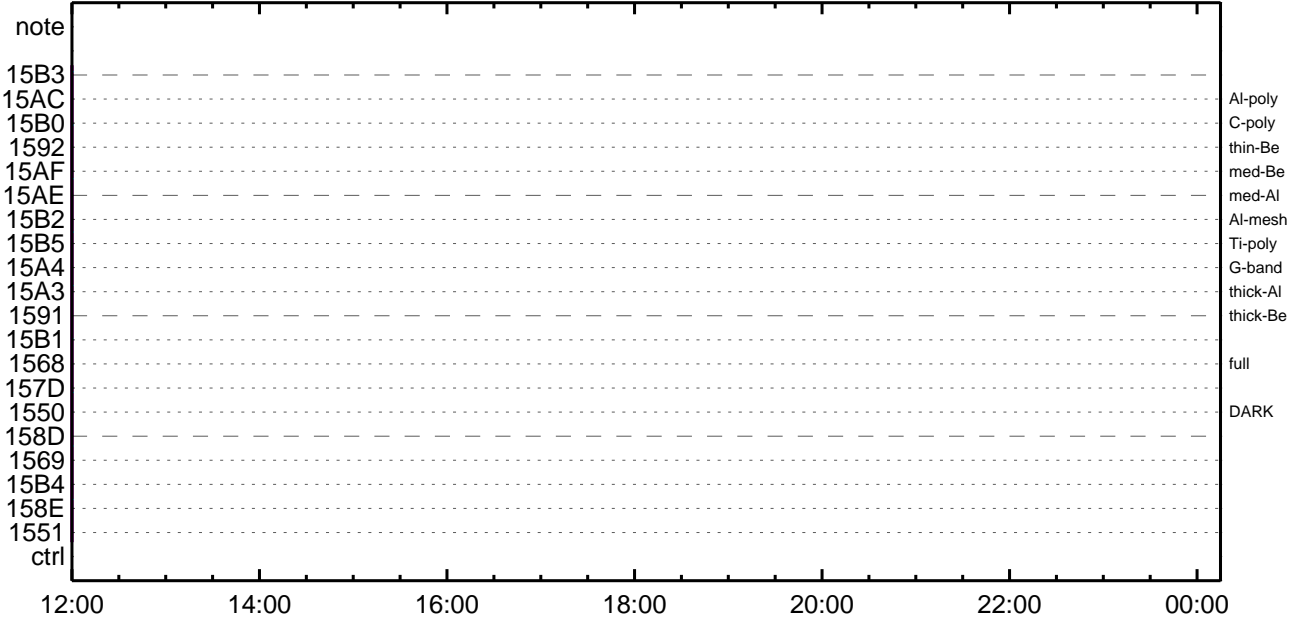


CMDI #0092 2008/08/22



CMDI #0092 2008/08/23







0096 C. SET DUMP I...  
0097 C.  
0098 C. TI 2008-08-19 10:53:00.0  
0099 +. TI 2008-08-19 10:53:00.0  
0100 DC 01-B3 DHU\_OP\_STOP  
0101 C. [HK1\_TI\_CMD\_NUM] EQ 1COUNTUP  
0102 C.  
0103 +. TI 2008-08-19 10:53:01.0  
0104 DC 01-B4 DHU\_OP\_COPY  
0105 C. [HK1\_TI\_CMD\_NUM] EQ 1COUNTUP  
0106 C.  
0107 +. TI 2008-08-19 10:53:01.0  
0108 DC 01-B5 DHU\_OPOG\_COPY  
0109 C. [HK1\_TI\_CMD\_NUM] EQ 1COUNTUP  
0110 C.  
0111 +. TI 2008-08-19 10:57:59.5  
0112 DC 01-B2 DHU\_OP\_START  
0113 C. [HK1\_TI\_CMD\_NUM] EQ 1COUNTUP  
0114 C.  
0115 C. ENA  
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 TBL(0x03AB00-0x03AEFF; 1024byte)  
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. [HK1\_DMP\_CHK\_FLG] EQ NON  
0142 C.  
0143 C.  
0144 C. RAM ID=TI\_TBL I...  
0145 C.  
0146 C. DHU...  
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. Stop EIS observation and temporarily disable EIS mode changes  
0155 C.  
0156 C.  
0157 C. \*\*\*\*\* Start EIS operation (TI set) \*\*\*\*\*  
0158 C. Execute, after the success of OP upload.  
0159 C. Set EIS TI-commands  
0160 +. TI 2008-08-19 10:57:30.0  
0161 DC 07-FC EIS\_MODE\_MANU  
0162 BC (21 02)  
0163 +. TI 2008-08-19 10:57:40.0  
0164 DC 07-FC EIS\_MODE\_CHG\_DIS  
0165 BC (22)  
0166 C. [ ] [HK1\_TI\_CMD\_NUM] EQ 2 COUNTUP  
0167 C. \*\*\*\*\* End EIS operation (TI set) \*\*\*\*\*  
0168 C.  
0169 C.  
0170 C. \*\*\*\*\*  
0171 C. SOT TI command set  
0172 C. \*\*\*\*\*  
0173 C. Execute, after the success of OP upload.  
0174 +. TI 2008-08-19 10:57:16.0  
0175 DC 07-F0 MDP\_SOT\_MODE\_STBY  
0176 BC (41)  
0177 C. -----  
0178 C. HK1\_TI\_CMD\_NUM = 1 CNTUP [ ]  
0179 C. -----  
0180 C. \*\*\*\*\* SOT END \*\*\*\*\*  
0181 C.  
0182 C. \*\*\*\*\* XRT START \*\*\*\*\*  
0183 C. Execute, after the success of OP upload.  
0184 +. TI 2008-08-19 10:57:00.0  
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 DCBC \*\*\*\*\*  
0192 C. (%...)  
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;ä
0203 C.
0204 . C. ***** LOS *****
0205 C.
```



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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 = 1084022.6 +- 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 37s
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 2008-08-19 10:57:50.0
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. ***** XRT START *****
0162 C.
0163 +. DC 07-F0 MDP_XRT_CTRL_MANU
0164 BC (c1)
0165 + DC 07-F0 MDP_XRT_MODE_STBY
0166 BC (c3)
0167 . C. ----- Success Verify ? OK / NG____
0168 C.
0169 C. XRT Obs. Table Upload
0170 . S. RAM ram-291:MDP_OBS_X
0171 ( )
0172 C.
0173 +. DC 07-F0 MDP_DUMP_XRTTBL
0174 BC (84 07 00 00 00 3a d4)
0175 . C. ----- Comparison Check ? OK / ERR ____
0176 C.
0177 C.
0178 +. DC 07-F0 MDP_XRT_ROI_SET
0179 BC (cd 01 b1 b1 04 04)
0180 + DC 07-F0 MDP_XRT_ROI_SET
0181 BC (cd 02 b1 b1 08 08)
0182 + DC 07-F0 MDP_XRT_ROI_SET
0183 BC (cd 03 b1 b1 08 08)
0184 + DC 07-F0 MDP_XRT_ROI_SET
0185 BC (cd 04 b1 b1 06 06)
0186 + DC 07-F0 MDP_XRT_ROI_SET
0187 BC (cd 06 80 80 06 06)
0188 + DC 07-F0 MDP_XRT_ROI_SET
0189 BC (cd 07 80 80 20 20)
0190 + DC 07-F0 MDP_XRT_ROI_SET
0191 BC (cd 0f 80 80 06 06)
0192 + DC 07-F0 MDP_XRT_ROI_SET
0193 BC (cd 10 80 80 04 04)

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```
0194 . C. ----- Success Verify ?           OK / NG ____
0195 . C.
0196 . C.
0197 . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0198 . C.
0199 +. DC 07-F0 MDP_XRT_MODE_OBSV
0200     BC      (c2)
0201 +. TI 2008-08-19 10:57:02.0
0202     DC 07-F0 MDP_XRT_MODE_OBSV
0203     BC      (c2)
0204 . C. ----- Success Verify ?           OK / NG ____
0205 . C.
0206 . C. ***** XRT END *****
0207 . C.
0208 . C. ***** MDP 'úÃîçî»ö¼ÝðÊÂð¹¹æDCBC•x²è *****
0209 . C. (¼ã°îÏÓŸÄŸÈŸŸŸËŸÁŸŸŸËŸÈŸÈŸ¼ð¼Â»Û¹¹æ)
0210 . S. DC-BC dcbc-402:DCBC
0211     (MDP_known_event)
0212 . C.
0213 . C.
0214 . C. ***** ŸÐŸ¹•Ï Daily±;İÑ¹Ê´Ø¹¹æDCBC•x²è *****
0215 . S. DC-BC dcbc-153:DCBC
0216     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0217 . C.
0218 . C.
0219 . C. ;ãLOSŸÁŸŸŸÄŸŸŸŸ-¼Â»Û;ã
0220 . C.
0221 . C. ***** LOS *****
0222 . C.
```



```

0096 C.
0097 C.
0098 . C. *****
0099 C. SOT table upload
0100 C. *****
0101 . C. < Stop FG table >
0102 +. DC 07-F0 MDP_FG_CTRL_MANU
0103 BC (51)
0104 . C. -----
0105 C. MDP_FG_CTRL_MODE = MANU [ ]
0106 C. -----
0107 C.
0108 . C. <Upload FG Observation Table>
0109 . S. RAM ram-262:MDP_OBS_F
0110 ( )
0111 C.
0112 . C. < Dump RAMID=MDP_OBS_F >
0113 +. DC 07-F0 MDP_DUMP_FGTBL
0114 BC (82 07 00 00 00 38 b8)
0115 C. -----
0116 C. MDP_OBS_F verify = OK/NG [ ]
0117 C. -----
0118 C.
0119 . C. < Upload DPL table >
0120 C.
0121 C. ¥çYÃ¥×¥í;¼¥É°îÁ°ñÈSTS_CHKñðOFFñÈñ¹ñè
0122 C.
0123 . S. RAM ram-271:MDP_DPL
0124 ( )
0125 C.
0126 . C. < Dump RAMID=MDP_DPL >
0127 +. DC 07-F0 MDP_DUMP_FGTBL
0128 BC (82 07 00 38 b8 00 40)
0129 C. -----
0130 C. MDP_DPL verify = OK [ ]
0131 C. -----
0132 C.
0133 C. STS_CHKñðONñÈñ¹ñè
0134 C.
0135 . C. < Update MDP DSC PAR1 >
0136 +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0137 BC (4c)
0138 C. MDP_CMD_CODE = F04C0700[ ]
0139 C. MDP_CMD_CNT (count-up 1) [ ]
0140 C. -----
0141 C.
0142 . C.
0143 C. *****
0144 C. SOT TI command set
0145 C. *****
0146 C. Execute, after the success of TBL upload.
0147 +. TI 2008-08-19 10:57:18.0
0148 DC 07-F0 MDP_SOT_MODE_OBSV
0149 BC (40)
0150 . C. -----
0151 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0152 C. -----
0153 C.
0154 C.
0155 . C. ***** MDP ´úÃîî»ò¼YñÈÁñ¹ñèDCBC•x²è *****
0156 C. (¼ã°îYÓYÃYÉY¥YÉYáYçYèñÈ¼ñ¼Á»Ûñ¹ñè)
0157 . S. DC-BC dcbc-402:DCBC
0158 (MDP_known_event)
0159 C.
0160 C.
0161 . C. ***** ¥D¥¹•İ Daily±¿İÑñÈ´Øñ¹ñèDCBC•x²è *****
0162 . S. DC-BC dcbc-153:DCBC
0163 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0164 C.
0165 C.
0166 . C. ;ãLOS¥Á¥S¥Ã¥¹¼Á»Û;ã
0167 C.
0168 . C. ***** LOS *****
0169 C.

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

2008/08/19	11:08:00.0	AOCS_Ore-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04	00	00	00	00
2008/08/19	11:23:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	11:23:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2008/08/19	11:24:16.0	XRT_QT_PROG_SET_411_OG [0x19b]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	0e			
2008/08/19	11:25:54.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/19	11:25:56.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/19	11:25:58.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/19	11:26:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/19	12:45:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	13:05:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/19	14:23:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	14:43:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	14:52:00.0	XRT_Custom_430_OG [0x1ae]							
2008/08/19	14:53:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/19	16:02:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	16:17:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	16:41:00.0	XRT_Custom_430_OG [0x1ae]							
2008/08/19	16:42:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/19	17:40:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	17:54:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	18:17:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	18:17:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2008/08/19	18:17:30.0	AOCS_Ore-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00	00	00	00	00
2008/08/19	18:17:46.0	XRT_QT_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	14			
2008/08/19	18:17:48.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/19	18:17:50.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/19	18:17:52.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/19	18:19:30.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/19	18:27:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	18:27:24.5	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	18:27:26.5	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00	
2008/08/19	18:27:30.0	AOCS_Ore-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04	00	00	00	00
2008/08/19	18:27:46.5	XRT_QT_PROG_SET_411_OG [0x19b]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4	0e			
2008/08/19	18:29:24.5	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/19	18:29:26.5	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/19	18:29:28.5	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/19	18:29:30.5	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/19	19:19:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	19:31:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	19:54:30.0	XRT_Custom_430_OG [0x1ae]							
2008/08/19	19:55:30.5	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/19	20:57:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	21:08:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	21:32:00.0	XRT_Custom_430_OG [0x1ae]							
2008/08/19	21:33:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/19	22:36:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	22:46:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/19	23:07:30.0	XRT_Custom_430_OG [0x1ae]							

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2008/08/19	23:08:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	00:14:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	00:23:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	00:34:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	01:48:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	02:13:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	03:22:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	03:51:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	04:52:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	05:30:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	06:02:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	06:02:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/20	06:03:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2008/08/20	06:03:16.0	XRT_QT_PROG_SET_425_OG [0x1a9]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03				
2008/08/20	06:03:18.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/20	06:03:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/20	06:03:22.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/20	06:05:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	06:12:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	06:12:54.5	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	06:12:56.5	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/08/20	06:13:00.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2008/08/20	06:13:16.5	XRT_QT_PROG_SET_411_OG [0x19b]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e				
2008/08/20	06:14:54.5	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/20	06:14:56.5	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/20	06:14:58.5	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/20	06:15:00.5	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	06:32:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	07:08:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	08:13:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	08:47:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	09:52:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	10:25:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	11:44:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	12:04:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	13:22:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	13:42:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	15:01:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	15:18:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	15:31:00.0	XRT_Custom_430_OG [0x1ae]							
2008/08/20	15:32:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	16:39:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	17:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	17:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/20	18:00:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2008/08/20	18:00:16.0	XRT_QT_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 14				
2008/08/20	18:00:18.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				



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2008/08/20	18:00:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/20	18:00:22.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/20	18:02:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/20	18:09:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	18:58:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/20	18:58:02.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/20	18:58:22.0	XRT_QT_PROG_SET_436_OG [0x1b4]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0d				
2008/08/20	18:58:24.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/20	18:58:26.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/20	18:58:28.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/20	19:00:06.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/21	06:06:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/21	06:06:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/08/21	06:07:16.0	XRT_QT_PROG_SET_425_OG [0x1a9]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03				
2008/08/21	06:07:18.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/08/21	06:07:20.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/08/21	06:07:22.0	XRT_ARS_DIS_427_OG [0x1ab]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/08/21	06:09:00.0	XRT_CTRL_AUTO_444_OG [0x1bc]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/08/21	06:16:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/08/21	10:44:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				