

# XRT Timeline to be uploaded on 2008/06/10

Period: 2008/06/10 09:45:00 - 2008/06/14 09:30:00

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## Normal mode

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XOB #1508: QS Ti/Poly Al/Mesh Q90 512x512													
Term		Pointing (x, y)					Comment						
06/10 10:26:58 - 06/10 17:58:54		Track ( 204.9, -1.7) @ 06/10 09:55:00					# OP start + 10min QS tracking						
06/10 18:56:58 - 06/11 06:17:24		Track ( 278.1, -2.2) @ 06/10 18:09:00					# QS tracking						
06/11 06:29:28 - 06/11 17:10:00		Track ( 384.2, -2.8) @ 06/11 06:27:30					# QS tracking						
<b>PROG= 18 3-time(s)</b>													
└─ <b>Subr= 1 30-time(s) 2.0sec</b>													
└─ <b>Seqn= 68 1-time(s) 60.0sec</b>													
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	22.6s	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	14.0sec
└─ <b>Seqn= 71 1-time(s) 60.0sec</b>													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	8.00s	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	14.0sec
└─ <b>Subr= 2 1-time(s) 2.0sec</b>													
└─ <b>Seqn= 35 1-time(s) 60.0sec</b>													
	Open/Al-mesh	Open/G-band	close	Safe	Dark	8.00s	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1555: Synoptic Q90 2x2 - Al/mesh(128/1024) + Dark cal(512 Q98) + Ti-poly(256/4096) + G-band(16)													
Term		Pointing (x, y)					Comment						
06/10 18:00:58 - 06/10 18:08:54		Fixed ( 0.0, 0.0)					synoptic, shifted -1.0 min						
06/11 06:19:28 - 06/11 06:27:24		Fixed ( 0.0, 0.0)					synoptic, shifted 17.5 min						
06/11 17:57:58 - 06/11 18:05:54		Fixed ( 0.0, 0.0)					synoptic, shifted -4.0 min						
06/12 05:42:58 - 06/12 05:50:54		Fixed ( 0.0, 0.0)					synoptic, shifted -19.0 min						
<b>PROG= 20 1-time(s)</b>													
└─ <b>Subr= 1 1-time(s) 2.0sec</b>													
└─ <b>Seqn= 40 1-time(s) 2.0sec</b>													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
└─ <b>Seqn= 72 1-time(s) 2.0sec</b>													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ <b>Seqn= 8 1-time(s) 2.0sec</b>													
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
└─ <b>Seqn= 46 1-time(s) 2.0sec</b>													
	Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1543: QS Ti/Poly Al/Mesh Q90 256x512													
Term		Pointing (x, y)					Comment						
06/11 18:07:58 - 06/12 05:40:54		Track ( 479.4, -3.1) @ 06/11 18:06:00					# QS tracking						
<b>PROG= 02 3-time(s)</b>													
└─ <b>Subr= 1 15-time(s) 8.0sec</b>													
└─ <b>Seqn= 87 1-time(s) 120.0sec</b>													
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	22.6s	Obs	1x1	256x512 (1024, 1024)	Q=90	0	0	14.0sec
└─ <b>Seqn= 7 1-time(s) 120.0sec</b>													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	8.00s	Obs	1x1	256x512 (1024, 1024)	Q=90	0	0	14.0sec
└─ <b>Subr= 2 1-time(s) 4.0sec</b>													
└─ <b>Seqn= 28 1-time(s) 120.0sec</b>													
	Open/Al-mesh	Open/G-band	close	Safe	Dark	8.00s	Obs	1x1	256x512 (1024, 1024)	Q=90	0	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

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NOT USED

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## Active Region Search

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NOT USED

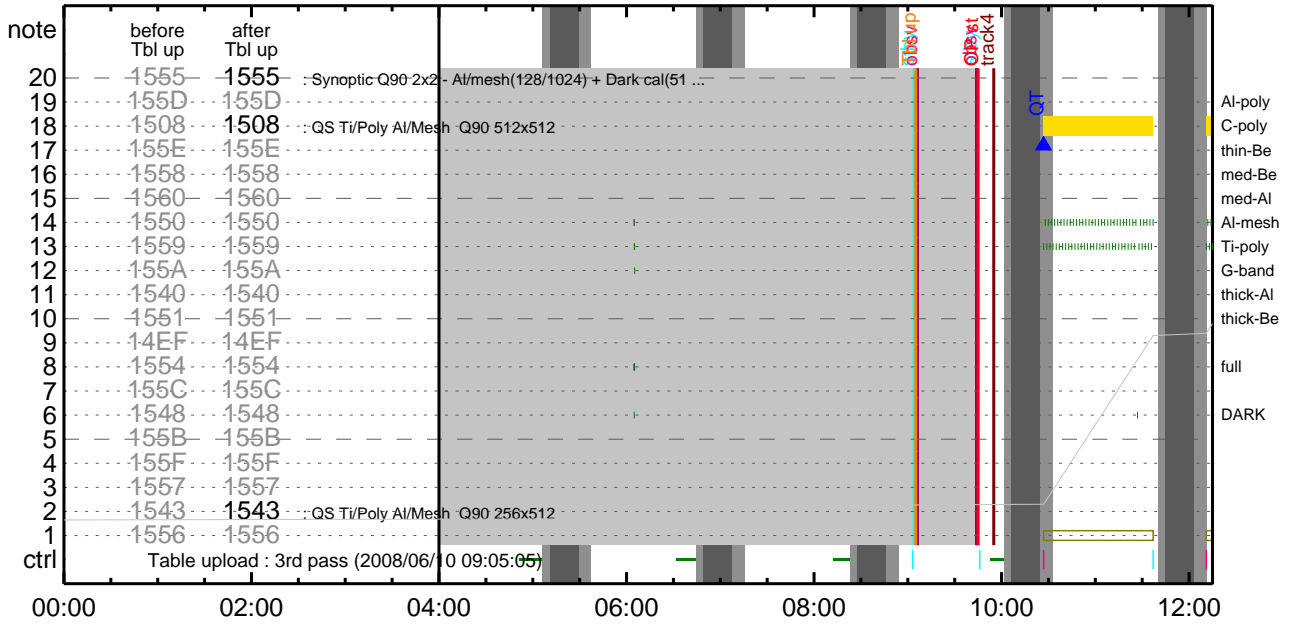
\* \* \* \* \*

## Flare Detection

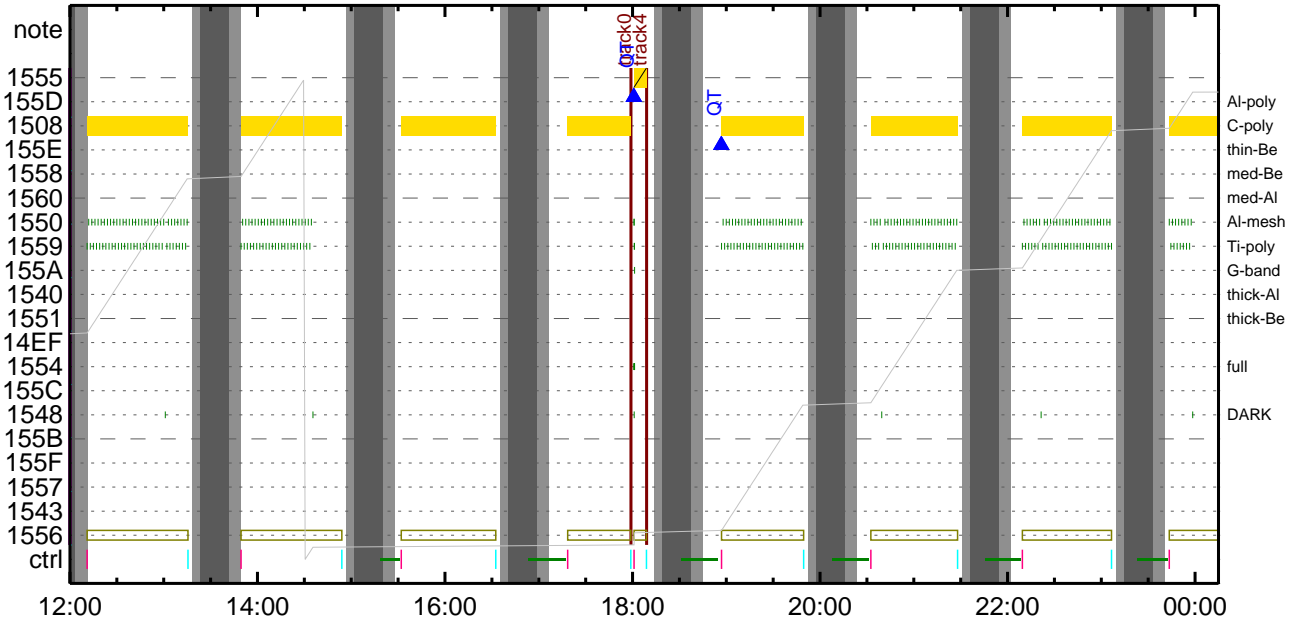
\* \* \* \* \*

NOT USED

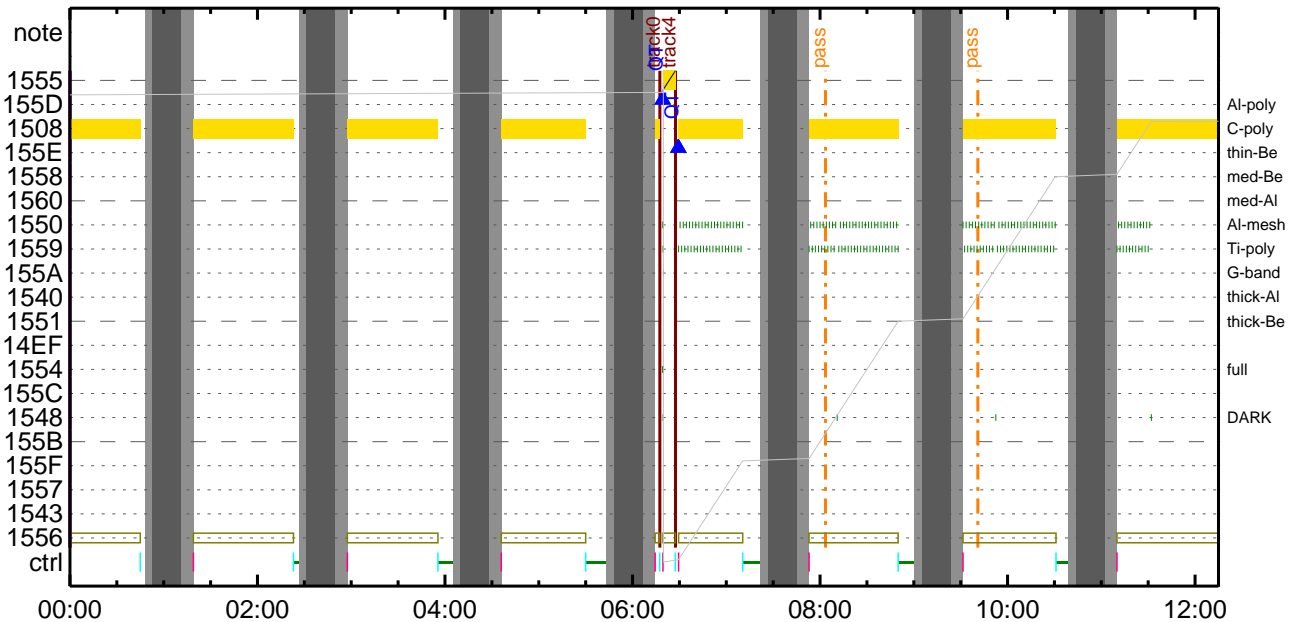
### CMDI #0976 2008/06/10



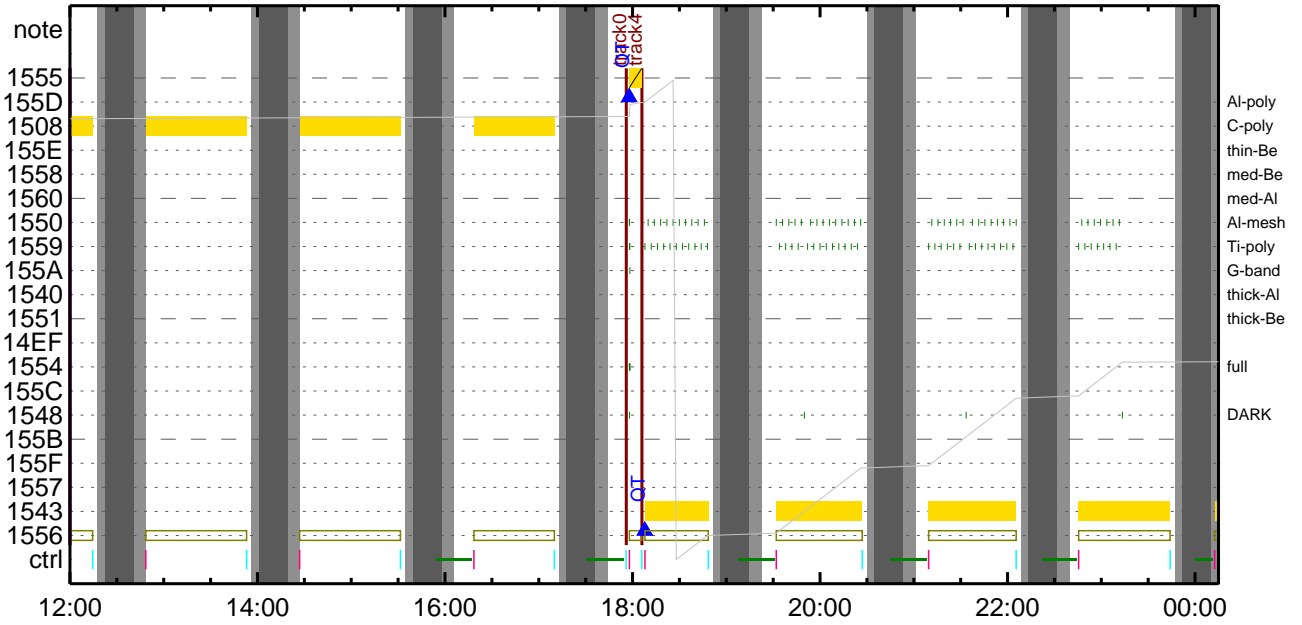
### CMDI #0976 2008/06/10



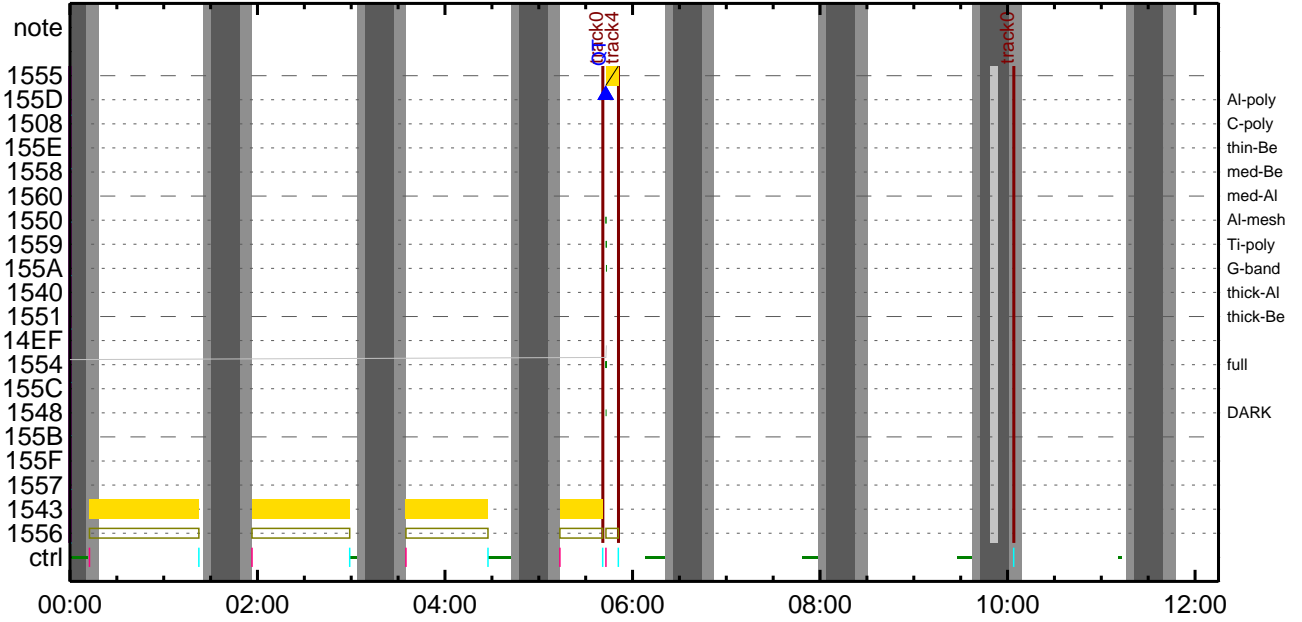
### CMDI #0976 2008/06/11



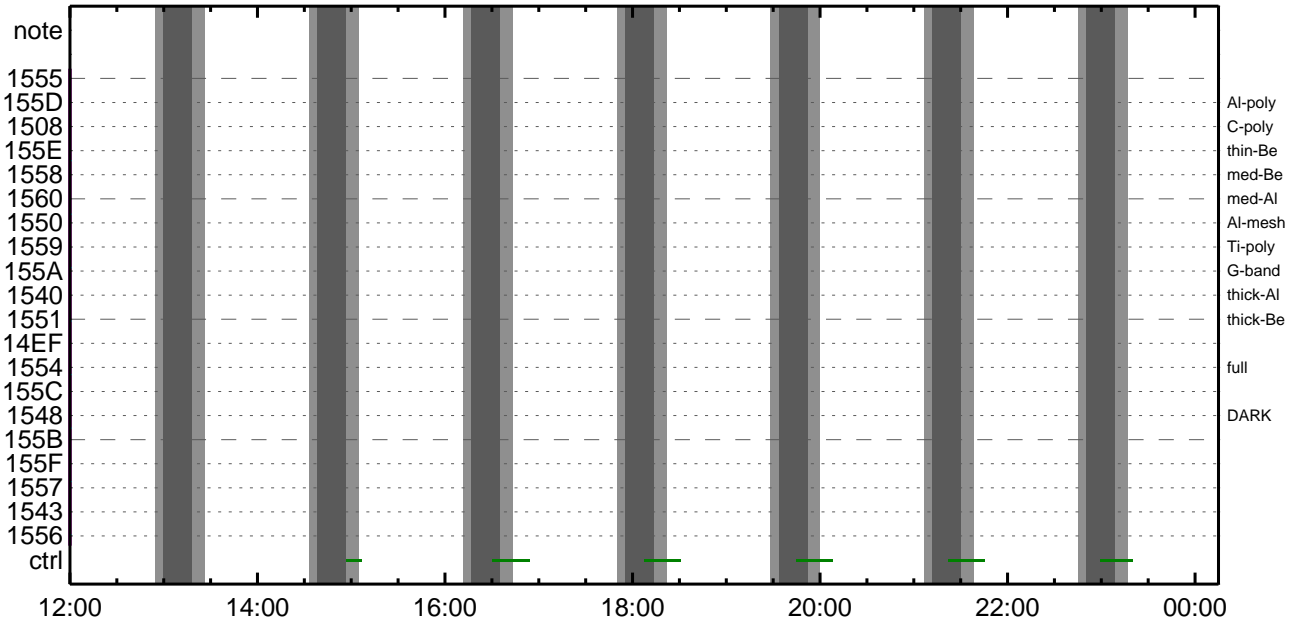
CMDI #0976 2008/06/11



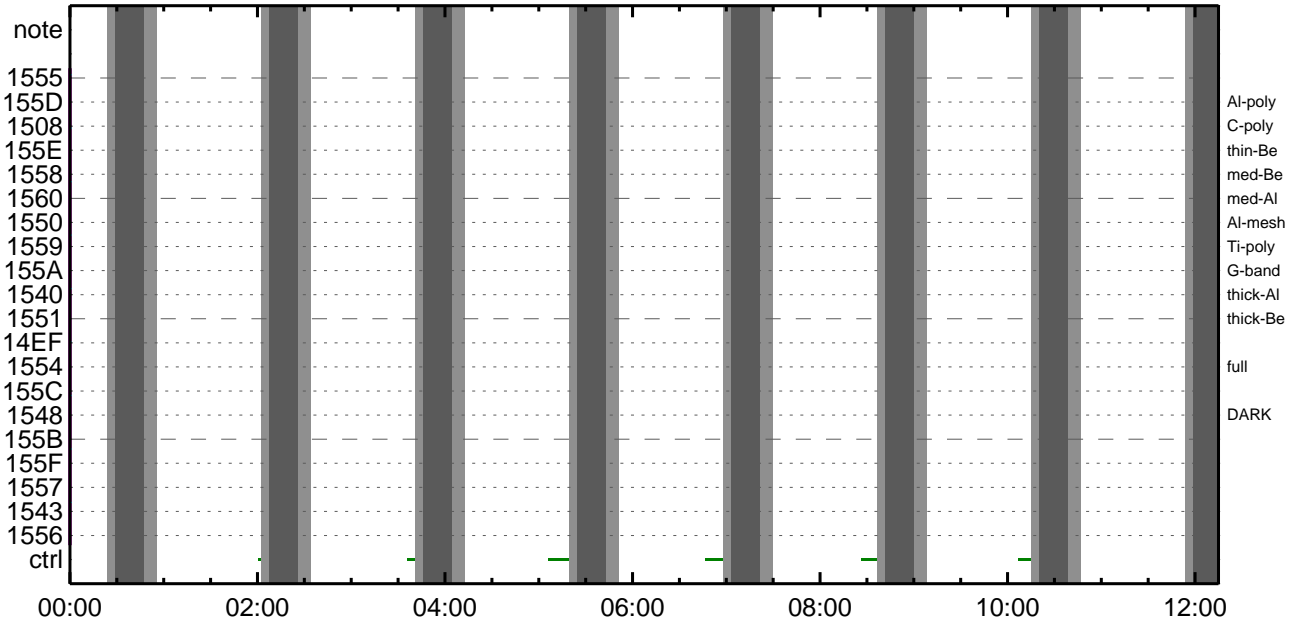
CMDI #0976 2008/06/12



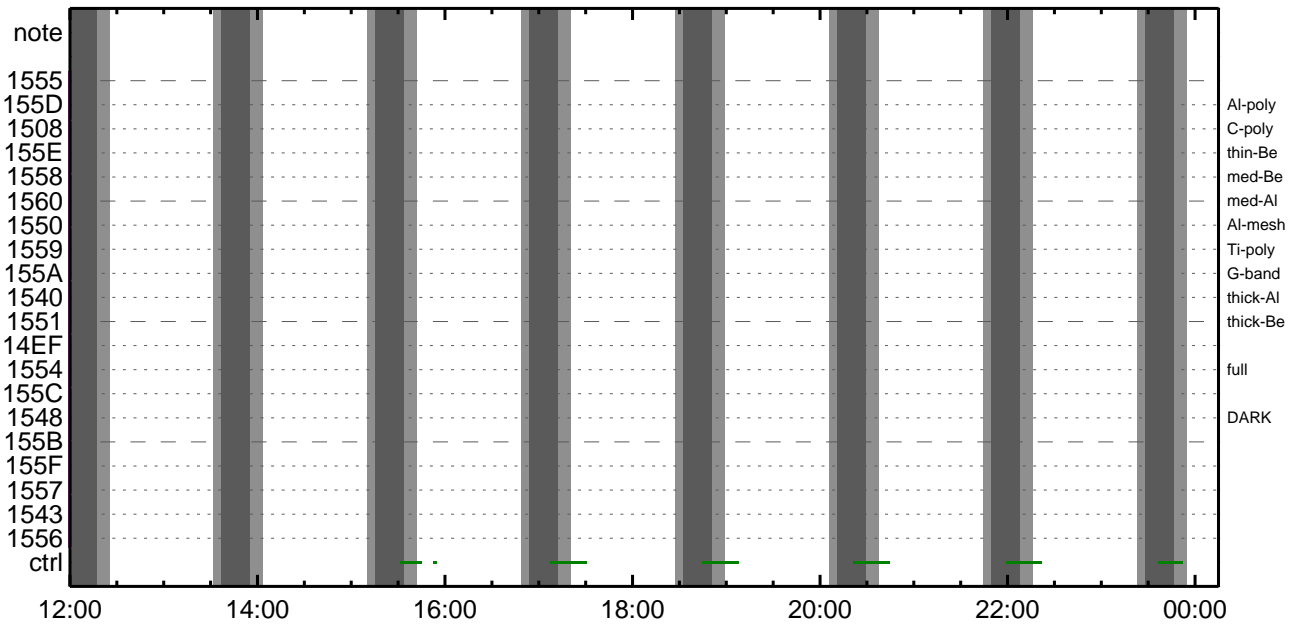
CMDI #0976 2008/06/12



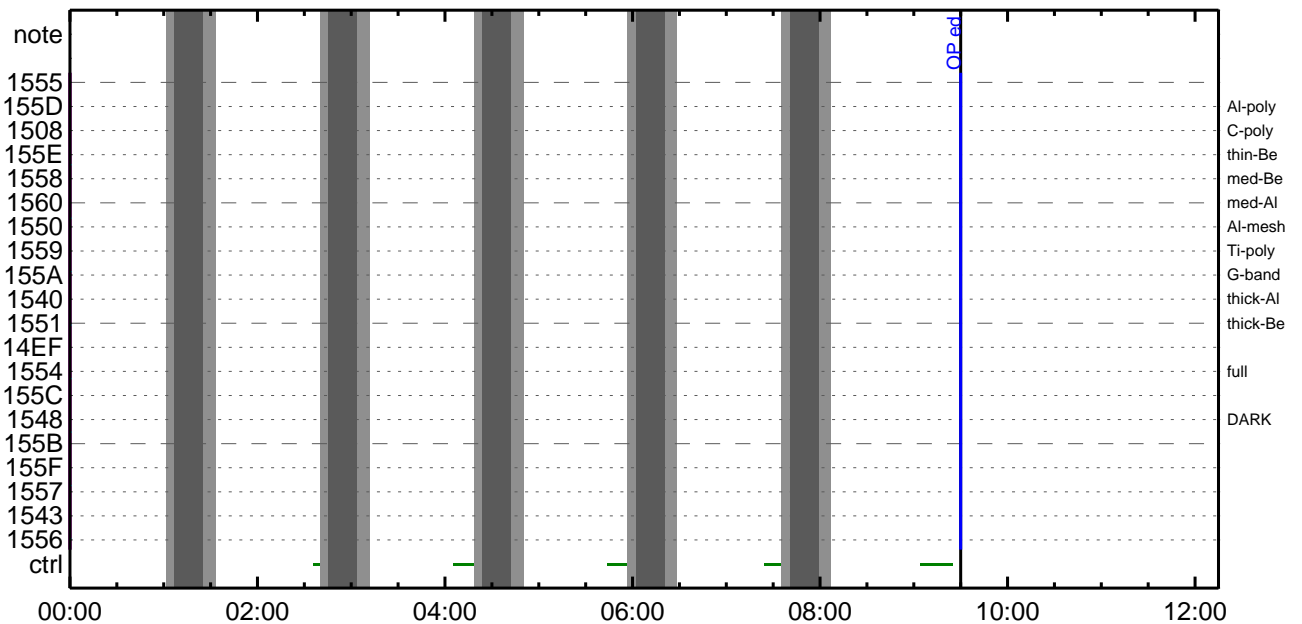
CMDI #0976 2008/06/13



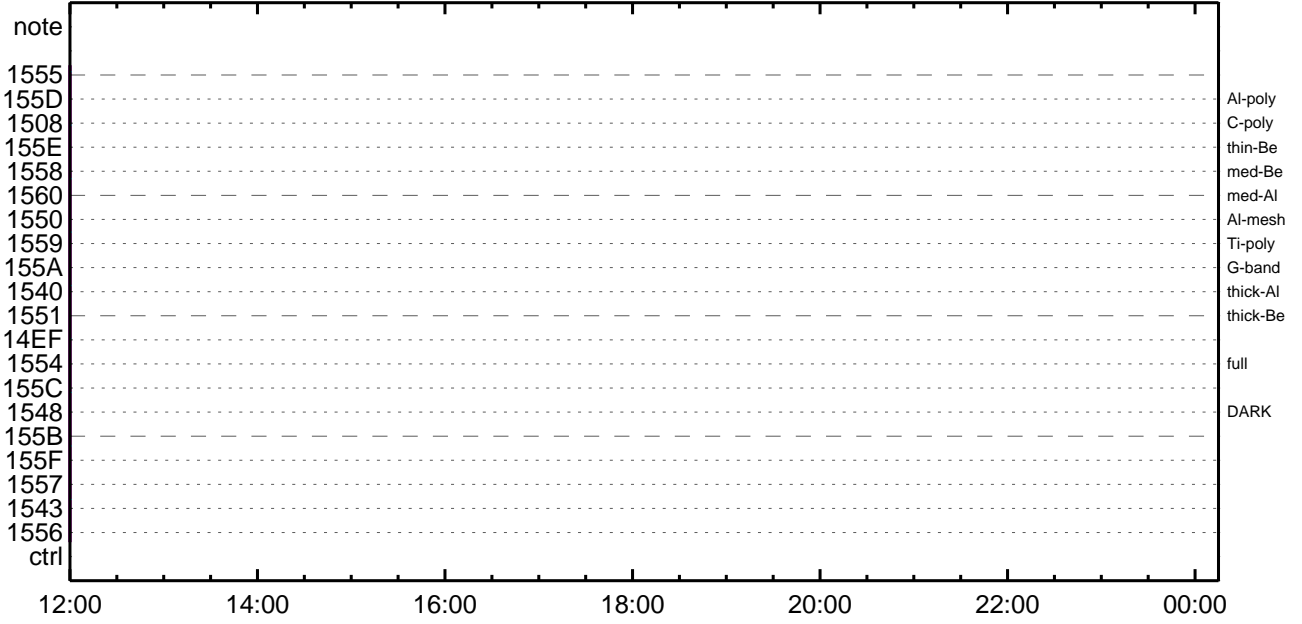
CMDI #0976 2008/06/13



CMDI #0976 2008/06/14



CMDI #0976 2008/06/14





0096 C.  
0097 C.  
0098 C.  
0099 C. OP/OGY1;4YE;ã  
0100 C. \*\*\*\*\*  
0101 C.  
0102 C. ;ãOP/OGY1;4YE;ã  
0103 S. OP op-914:OP  
0104 (  
0105 S. OG og-914:OG  
0106 (  
0107 C.  
0108 C. ;ãNMOG&OPf^°è¥ÄYôYx;ã  
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)  
0110 +. DC 01-23 DHU\_DMA\_DMP\_PRM\_SET  
0111 BC (20 00 7f 01 02)  
0112 C. ¢¢[HK1\_DMP\_TOP\_ADRS\_1] EQ 40  
0113 C. ¢¢[HK1\_DMP\_TOP\_ADRS\_0] EQ 0  
0114 C. ¢¢[HK1\_DMP\_BLOCK\_NUM] EQ 127  
0115 C. ¢¢[HK1\_DMP\_REPEAT\_NUM] EQ 0  
0116 C. ¢¢[HK1\_DMA\_DMP\_PIM] EQ DHU  
0117 +. DC 01-22 DHU\_MODE\_CHNG  
0118 BC (07 0b f8)  
0119 C. ¢¢[HK1\_PKT\_FORM\_NO] EQ 7  
0120 C. ¢¢[HK1\_PKT\_GEN\_TIME] EQ 0.25 s  
0121 C. ¢¢[HK1\_S\_TLM\_BIT\_RATE] EQ 32k  
0122 C. ¢¢[HK1\_X\_TLM\_BIT\_RATE] EQ 4M  
0123 C. ¢¢[HK1\_DMP\_CHK\_FLG] EQ EXEC  
0124 C. ¥ÄYôYx½^aÎ»ò³ÎÇ§  
0125 C. ¢¢[HK1\_DMP\_CHK\_FLG] EQ NON  
0126 C. RAM ID=NMOG□î½ē¹Ç•ē²ïOKò³ÎÇ§  
0127 C.  
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)  
0129 +. DC 01-23 DHU\_DMA\_DMP\_PRM\_SET  
0130 BC (20 80 7f 01 02)  
0131 C. ¢¢[HK1\_DMP\_TOP\_ADRS\_1] EQ 41  
0132 C. ¢¢[HK1\_DMP\_TOP\_ADRS\_0] EQ 0  
0133 C. ¢¢[HK1\_DMP\_BLOCK\_NUM] EQ 127  
0134 C. ¢¢[HK1\_DMP\_REPEAT\_NUM] EQ 0  
0135 C. ¢¢[HK1\_DMA\_DMP\_PIM] EQ DHU  
0136 +. DC 01-22 DHU\_MODE\_CHNG  
0137 BC (07 0b f8)  
0138 C. ¢¢[HK1\_PKT\_FORM\_NO] EQ 7  
0139 C. ¢¢[HK1\_PKT\_GEN\_TIME] EQ 0.25 s  
0140 C. ¢¢[HK1\_S\_TLM\_BIT\_RATE] EQ 32k  
0141 C. ¢¢[HK1\_X\_TLM\_BIT\_RATE] EQ 4M  
0142 C. ¢¢[HK1\_DMP\_CHK\_FLG] EQ EXEC  
0143 C. ¥ÄYôYx½^aÎ»ò³ÎÇ§  
0144 C. ¢¢[HK1\_DMP\_CHK\_FLG] EQ NON  
0145 C. RAM ID=NMOG□î½ē¹Ç•ē²ïOKò³ÎÇ§  
0146 C.  
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)  
0148 +. DC 01-23 DHU\_DMA\_DMP\_PRM\_SET  
0149 BC (21 00 41 01 02)  
0150 C. ¢¢[HK1\_DMP\_TOP\_ADRS\_1] EQ 42  
0151 C. ¢¢[HK1\_DMP\_TOP\_ADRS\_0] EQ 0  
0152 C. ¢¢[HK1\_DMP\_BLOCK\_NUM] EQ 65  
0153 C. ¢¢[HK1\_DMP\_REPEAT\_NUM] EQ 0  
0154 C. ¢¢[HK1\_DMA\_DMP\_PIM] EQ DHU  
0155 +. DC 01-22 DHU\_MODE\_CHNG  
0156 BC (07 0b f8)  
0157 C. ¢¢[HK1\_PKT\_FORM\_NO] EQ 7  
0158 C. ¢¢[HK1\_PKT\_GEN\_TIME] EQ 0.25 s  
0159 C. ¢¢[HK1\_S\_TLM\_BIT\_RATE] EQ 32k  
0160 C. ¢¢[HK1\_X\_TLM\_BIT\_RATE] EQ 4M  
0161 C. ¢¢[HK1\_DMP\_CHK\_FLG] EQ EXEC  
0162 C. ¥ÄYôYx½^aÎ»ò³ÎÇ§  
0163 C. ¢¢[HK1\_DMP\_CHK\_FLG] EQ NON  
0164 C. RAM ID=NMOG,RAM ID=OP□î½ē¹Ç•ē²ïOKò³ÎÇ§  
0165 C.  
0166 C. \*\*\*\*\* °ê²¼□î½Ä´¶Á°èÈÈ¬□Á÷¿@ (¼âµ-¥ÄYôYx½ê½Ç□òÄÖÃæ□Ç¼^a¬°ê¼î¹Ç□Ç□â) \*\*\*\*\*  
0167 C. DHUYâ;4YE;ê½Y½;¥î;4YE;Èòðîã¹  
0168 +. DC 01-22 DHU\_MODE\_CHNG  
0169 BC (02 0a f8)  
0170 C. ¢¢[HK1\_PKT\_FORM\_NO] EQ 2  
0171 C. ¢¢[HK1\_PKT\_GEN\_TIME] EQ 0.5S  
0172 C. ¢¢[HK1\_S\_TLM\_BIT\_RATE] EQ 32K  
0173 C. ¢¢[HK1\_X\_TLM\_BIT\_RATE] EQ 4M  
0174 C.  
0175 C. \*\*\*\*\*  
0176 C. TI-CMD SET (OPOG STOP/COPY/START)  
0177 C. \*\*\*\*\*  
0178 C.  
0179 C. NOTICE ;§ OPOG UPLOAD□¬Á÷¿@NGUî½î¹Ç;¢°ê²¼□î½TI-CMDÁ÷¿@□î½Ä¹Ö□□è□□³□è;f  
0180 C. □è□¿;¢SET□èDUMP□î±°i¥N¥¹□Ç¹Ö□□³□è;f  
0181 C.  
0182 C. TIY³YpYôYÉ□òðÄDî¿(UT)  
0183 +. TI 2008-06-10 09:40:00.0  
0184 DC 01-B3 DHU\_OP\_STOP  
0185 C. ¢¢[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP  
0186 C.  
0187 +. TI 2008-06-10 09:40:01.0  
0188 DC 01-B4 DHU\_OP\_COPY  
0189 C. ¢¢[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP  
0190 C.  
0191 +. TI 2008-06-10 09:40:01.0  
0192 DC 01-B5 DHU\_OPOG\_COPY  
0193 C. ¢¢[HK1\_TI\_CMD\_NUM] EQ 1COUNTUP





(a) Spacecraft Operation Procedure (real-commands)

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main-915 2008-06-10 11:20:11 91 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÁY~¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YFÝÖYÉÁ+¿@
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èµ¿µÁµ•µ°È»Í×ÁÇµÍYçYÁY×Yí;¼YÉ;ÈÈè¼µ•íÉ;ÈµÈ¼°ÇÖµ•µ¿¼í¹çµÍ;çÁ@, ùµ¹µÈµµµÇÁ+¿@µ•µÈµµµ³µÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0015 C. Upload the Orbit Element and the Target Attitude
0016 C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 ( )
0019 C.
0020 C.
0021 C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCU_DUMP_SET
0023 BC (07 00 00 00 18 00)
0024 C.
0025 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCs Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCSDUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCU_ORB_UPD
0044 . C.
0045 . C. ***** AOCs Commands (Orbital Element Update) *****
0046 C. Update the orbital element
0047 +. DC 02-50 AOCU_ORB_PRPGT_START
0048 BC (16)
0049 +. DC 02-8E AOCU_ORB_UPD
0050 C.
0051 C. <A_ORB>[ORBIT] EPC = 3428187.4 +- 1.0 (s) [ ]
0052 C.
0053 . C.
0054 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0055 +. DC 07-FC EIS_MODE_MANU
0056 BC (21 02)
0057 . C. Verify EIS in MANUAL mode
0058 . C. Estimated OBSTBL upload time is 6s
0059 C. *****
0060 C. EIS START OBSTBL LOAD
0061 C. *****
0062 . S. RAM ram-820:EIS_OBSTBL
0063 ( )
0064 +. DC 07-FC EIS_DUMP_OBSTBL
0065 BC (07 07 07 00 00 70 00)
0066 C.
0067 C. Execute, after the success of OBSTBL upload.
0068 C. Set EIS TI-commands
0069 +. TI 2008-06-10 09:44:50.0
0070 DC 07-FC EIS_MODE_CHG_ENA
0071 BC (20)
0072 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0073 C. *****
0074 C. EIS END OBSTBL LOAD
0075 C. *****
0076 C.
0077 . C. ***** MDP `ûÁÎµÎ`ö¼YµÉÁµ¹µéDCBC•x²è *****
0078 C. (¼á°íYÓYÁYÉYþYÉYáYçYéµE¾¾µµ¼Á»Ûµ¹µé)
0079 . S. DC-BC dcbc-402:DCBC
0080 (MDP_known_event)
0081 C.
0082 C.
0083 . C. ***** YDY¹•İ Daily±¿ÍÑµÉ´Øµ¹µéDCBC•x²è *****
0084 . S. DC-BC dcbc-153:DCBC
0085 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0086 C.
0087 C.
0088 . C. ;ãLOSÁYŞYÁY~¼Á»Û;ã
0089 C.
0090 . C. ***** LOS *****
0091 C.

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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-269: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. < Stop SP table >
0120 +. DC 07-F0 MDP_SP_CTRL_MANU
0121 BC (61)
0122 C. -----
0123 C. MDP_SP_CTRL_MODE = MANU [ ]
0124 C. -----
0125 C.
0126 . C. <Upload SP Observation Table>
0127 . S. RAM ram-286:MDP_OBS_S
0128 ( )
0129 C.
0130 . C. < Dump RAMID=MDP_OBS_S >
0131 +. DC 07-F0 MDP_DUMP_SPTBL
0132 BC (83 07 00 00 00 38 b8)
0133 C. -----
0134 C. MDP_OBS_S verify = OK/NG [ ]
0135 C. -----
0136 C.
0137 . C. < Upload DPL table >
0138 C.
0139 C. ¥ç¥Ã¥×¥í;¼¥É°âÊSTS_CHKðOFFðËð¹ðë
0140 C.
0141 . S. RAM ram-271:MDP_DPL
0142 ( )
0143 C.
0144 . C. < Dump RAMID=MDP_DPL >
0145 +. DC 07-F0 MDP_DUMP_FGTBL
0146 BC (82 07 00 38 b8 00 40)
0147 C. -----
0148 C. MDP_DPL verify = OK [ ]
0149 C. -----
0150 C.
0151 C. STS_CHKðONðËð¹ðë
0152 C.
0153 . C. < Update MDP DSC PAR1 >
0154 +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0155 BC (4c)
0156 C. MDP_CMD_CODE = F04C0700[ ]
0157 C. MDP_CMD_CNT (count-up 1) [ ]
0158 C. -----
0159 C.
0160 . C.
0161 C. *****
0162 C. SOT TI command set
0163 C. *****
0164 C. Execute, after the success of TBL upload.
0165 +. TI 2008-06-10 09:44:18.0
0166 DC 07-F0 MDP_SOT_MODE_OBSV
0167 BC (40)
0168 . C. -----
0169 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0170 C. -----
0171 C.
0172 C.
0173 C. ***** XRT START *****
0174 C.
0175 +. DC 07-F0 MDP_XRT_CTRL_MANU
0176 BC (c1)
0177 + DC 07-F0 MDP_XRT_MODE_STBY
0178 BC (c3)
0179 . C. ----- Success Verify ? OK / NG____
0180 C.
0181 C. XRT Obs. Table Upload
0182 . S. RAM ram-291:MDP_OBS_X
0183 ( )
0184 C.
0185 +. DC 07-F0 MDP_DUMP_XRTTBL
0186 BC (84 07 00 00 00 3a d4)
0187 . C. ----- Comparison Check ? OK / ERR ____
0188 C.
0189 C.
0190 +. DC 07-F0 MDP_XRT_ROI_SET
0191 BC (cd 01 b1 b1 04 04)
0192 + DC 07-F0 MDP_XRT_ROI_SET
0193 BC (cd 02 b1 b1 08 08)

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0194 + DC 07-F0 MDP\_XRT\_ROI\_SET  
0195 BC (cd 03 b1 b1 08 08)  
0196 + DC 07-F0 MDP\_XRT\_ROI\_SET  
0197 BC (cd 04 b1 b1 06 06)  
0198 + DC 07-F0 MDP\_XRT\_ROI\_SET  
0199 BC (cd 06 80 80 08 08)  
0200 + DC 07-F0 MDP\_XRT\_ROI\_SET  
0201 BC (cd 07 80 80 20 20)  
0202 + DC 07-F0 MDP\_XRT\_ROI\_SET  
0203 BC (cd 08 80 80 04 08)  
0204 + DC 07-F0 MDP\_XRT\_ROI\_SET  
0205 BC (cd 0f 80 80 06 06)  
0206 + DC 07-F0 MDP\_XRT\_ROI\_SET  
0207 BC (cd 10 80 80 04 04)  
0208 . C. ----- Success Verify ? OK / NG \_\_\_\_  
0209 C.  
0210 C.  
0211 . C. All OK? Yes--> Please Proceed. / No --> Stop here.  
0212 C.  
0213 +. DC 07-F0 MDP\_XRT\_MODE\_OBSV  
0214 BC (c2)  
0215 +. TI 2008-06-10 09:44:02.0  
0216 DC 07-F0 MDP\_XRT\_MODE\_OBSV  
0217 BC (c2)  
0218 . C. ----- Success Verify ? OK / NG \_\_\_\_  
0219 C.  
0220 C. \*\*\*\*\* XRT END \*\*\*\*\*  
0221 C.  
0222 . C. \*\*\*\*\* MDP 'ûÃîñî»ö%ÿñÊÄñ¹ñèDCBC•x²è \*\*\*\*\*  
0223 C. (%â°îÿÓÿÃÿÈÿÏÿËÿäÿçÿèñ%¼ññ¼Ä»Ûñ¹ñè)  
0224 . S. DC-BC dcbc-402:DCBC  
0225 (MDP\_known\_event)  
0226 C.  
0227 C.  
0228 . C. \*\*\*\*\* ÿDÿ¹•î Daily±;îññÊ'Øñ¹ñèDCBC•x²è \*\*\*\*\*  
0229 . S. DC-BC dcbc-153:DCBC  
0230 (SPECIAL-CMD\_DAILY\_OPERATIN\_DCB)  
0231 C.  
0232 C.  
0233 . C. ;ãLOSÿÃÿSÿËÿ-¼Ä»Û;ã  
0234 C.  
0235 . C. \*\*\*\*\* LOS \*\*\*\*\*  
0236 C.

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

2008/06/10	09:46:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	09:55:00.0	AOCS_Or-e-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2008/06/10	10:26:30.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/06/10	10:26:50.0	XRT_QT_PROG_SET_424_OG [0x1a8]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 12				
2008/06/10	10:26:52.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/06/10	10:26:54.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/06/10	10:26:56.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/06/10	10:26:58.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	11:37:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	12:03:00.0	XRT_Custom_421_OG [0x1a5]							
2008/06/10	12:11:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	13:15:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	13:41:30.0	XRT_Custom_421_OG [0x1a5]							
2008/06/10	13:49:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	14:54:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	15:31:00.5	XRT_Custom_430_OG [0x1ae]							
2008/06/10	15:32:00.5	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	16:32:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	17:17:30.0	XRT_Custom_430_OG [0x1ae]							
2008/06/10	17:18:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	17:58:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	17:59:00.0	AOCS_Or-e-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2008/06/10	18:00:30.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/06/10	18:00:50.0	XRT_QT_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 14				
2008/06/10	18:00:52.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/06/10	18:00:54.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/06/10	18:00:56.0	XRT_ARS_DIS_418_OG [0x1a2]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/06/10	18:00:58.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	18:08:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	18:09:00.0	AOCS_Or-e-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2008/06/10	18:56:30.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/06/10	18:56:50.0	XRT_QT_PROG_SET_424_OG [0x1a8]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 12				
2008/06/10	18:56:52.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/06/10	18:56:54.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/06/10	18:56:56.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/06/10	18:56:58.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	19:49:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	20:31:30.0	XRT_Custom_430_OG [0x1ae]							
2008/06/10	20:32:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	21:28:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	22:08:30.0	XRT_Custom_430_OG [0x1ae]							
2008/06/10	22:09:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/10	23:06:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/10	23:42:30.5	XRT_Custom_430_OG [0x1ae]							
2008/06/10	23:43:30.5	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	00:45:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	01:11:00.0	XRT_Custom_421_OG [0x1a5]							
2008/06/11	01:19:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	02:23:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	02:49:30.0	XRT_Custom_421_OG [0x1a5]							

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2008/06/11	02:57:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	03:55:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	04:28:00.0	XRT_Custom_421_OG [0x1a5]							
2008/06/11	04:36:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	05:30:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	06:06:30.0	XRT_Custom_421_OG [0x1a5]							
2008/06/11	06:14:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	06:17:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	06:17:30.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2008/06/11	06:19:00.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/06/11	06:19:20.0	XRT_QT_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 14				
2008/06/11	06:19:22.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/06/11	06:19:24.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/06/11	06:19:26.0	XRT_ARS_DIS_418_OG [0x1a2]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/06/11	06:19:28.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	06:27:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	06:27:30.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2008/06/11	06:29:00.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2008/06/11	06:29:20.0	XRT_QT_PROG_SET_424_OG [0x1a8]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 12				
2008/06/11	06:29:22.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/06/11	06:29:24.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/06/11	06:29:26.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/06/11	06:29:28.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	07:10:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	07:45:00.0	XRT_Custom_421_OG [0x1a5]							
2008/06/11	07:53:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	08:50:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	09:23:30.0	XRT_Custom_421_OG [0x1a5]							
2008/06/11	09:31:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	10:31:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	11:02:00.0	XRT_Custom_421_OG [0x1a5]							
2008/06/11	11:10:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	12:14:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	12:40:30.0	XRT_Custom_421_OG [0x1a5]							
2008/06/11	12:48:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	13:53:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	14:19:00.0	XRT_Custom_421_OG [0x1a5]							
2008/06/11	14:27:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	15:31:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	16:17:30.0	XRT_Custom_430_OG [0x1ae]							
2008/06/11	16:18:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	17:10:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	17:55:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2008/06/11	17:56:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2008/06/11	17:57:30.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2008/06/11	17:57:50.0	XRT_QT_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 14				
2008/06/11	17:57:52.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2008/06/11	17:57:54.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2008/06/11	17:57:56.0	XRT_ARS_DIS_418_OG [0x1a2]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2008/06/11	17:57:58.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2008/06/11	18:05:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							

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2008/06/11	18:06:00.0	AOCS_ORe-point_Start_1_OG [0x097]	MDP_XRT_CTRL_MANU	1	07-F0	c1
		AOCU_NM		5	02-76	04 00 00 00 00
2008/06/11	18:07:30.0	XRT_FOCUS_POSITION_401_OG [0x191]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2008/06/11	18:07:50.0	XRT_QT_PROG_SET_414_OG [0x19e]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 02
2008/06/11	18:07:52.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9
2008/06/11	18:07:54.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2008/06/11	18:07:56.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5
2008/06/11	18:07:58.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/11	18:48:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/11	19:31:00.0	XRT_Custom_430_OG [0x1ae]				
2008/06/11	19:32:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/11	20:27:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/11	21:08:30.0	XRT_Custom_430_OG [0x1ae]				
2008/06/11	21:09:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/11	22:05:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/11	22:44:30.0	XRT_Custom_430_OG [0x1ae]				
2008/06/11	22:45:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/11	23:44:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/12	00:11:30.0	XRT_Custom_430_OG [0x1ae]				
2008/06/12	00:12:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/12	01:22:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/12	01:48:30.0	XRT_Custom_421_OG [0x1a5]				
2008/06/12	01:56:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/12	02:59:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/12	03:27:00.0	XRT_Custom_421_OG [0x1a5]				
2008/06/12	03:35:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/12	04:27:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/12	05:05:30.0	XRT_Custom_421_OG [0x1a5]				
2008/06/12	05:13:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/12	05:40:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/12	05:41:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2008/06/12	05:42:30.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2008/06/12	05:42:50.0	XRT_QT_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 14
2008/06/12	05:42:52.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9
2008/06/12	05:42:54.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2008/06/12	05:42:56.0	XRT_ARS_DIS_418_OG [0x1a2]	MDP_XRT_ARS_DIS	1	07-F0	d5
2008/06/12	05:42:58.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2008/06/12	05:50:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/12	05:51:00.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	04 00 00 00 00
2008/06/12	10:03:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2008/06/12	10:04:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00