

XRT Timeline to be uploaded on 2010/06/03

Period: 2010/06/03 10:48:00 - 2010/06/08 11:15:00

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Normal mode

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XOB #17C5: AR multifilter - Al/mesh, Ti/Poly, G-band FOV 384 Q95 AEC2+Q90 AEC3 (3min)														
Term	Pointing (x, y)		Comment											
06/03 11:19:30 - 06/03 17:24:00	Track (336.1, 190.5)	[Ⓜ] 06/03 10:58:00	# OP start + 10min : AR11073 tracking observation										
06/03 18:20:02 - 06/04 05:53:54	Track (396.4, 189.8)	[Ⓜ] 06/03 18:17:00	# cont.										
06/04 06:07:02 - 06/04 17:46:54	Track (489.3, 188.6)	[Ⓜ] 06/04 06:04:00	# cont.										
06/04 18:00:02 - 06/05 06:05:24	Track (576.5, 187.4)	[Ⓜ] 06/04 17:57:00	# cont.										
06/05 06:18:32 - 06/05 10:20:54	Track (658.8, 186.3)	[Ⓜ] 06/05 06:15:30	# cont.										
PROG= 14 Inf.-time(s)														
└─ Subr= 2 1-time(s) 2.0sec														
└─ Seqn= 1 1-time(s) 2.0sec														
	Open/G-band	Open/G-band open	Safe Norm	63ms	Obs 1x1	512x512 (1024, 1024)	Q=98	0	0	2.0sec				
└─ Seqn= 97 1-time(s) 2.0sec														
	Open/Al-mesh	Open/G-band close	Safe Dark	4.00s	Obs 1x1	384x384 (1024, 1024)	DPCM	0	0	2.0sec				
└─ Subr= 1 60-time(s) 180.0sec														
└─ Seqn= 98 1-time(s) 4.0sec														
	Open/Al-mesh	Open/Ti-poly close	Safe Norm	250ms	Obs 1x1	384x384 (1024, 1024)	Q=95	2	0	2.0sec				
	Open/Al-mesh	Open/Ti-poly close	Safe Norm	250ms	Obs 1x1	384x384 (1024, 1024)	Q=90	3	0	2.0sec				
└─ Seqn= 99 1-time(s) 2.0sec														
	Open/Ti-poly	Open/thick-Al close	Safe Norm	500ms	Obs 1x1	384x384 (1024, 1024)	Q=95	2	0	2.0sec				
	Open/Ti-poly	Open/thick-Al close	Safe Norm	500ms	Obs 1x1	384x384 (1024, 1024)	Q=90	3	0	2.0sec				
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval		

XOB #17B9: Synoptic Q95 2x2 - Al/mesh(16/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 -1x1 2048x512) + Ti-poly(33/2048) + G-band(16)														
Term	Pointing (x, y)		Comment											
06/03 18:10:00 - 06/03 18:16:54	Fixed (	0.0, 0.0)		synoptic, shifted 7.0 min										
06/04 05:57:00 - 06/04 06:03:54	Fixed (	0.0, 0.0)		synoptic, shifted -6.0 min										
06/04 17:50:00 - 06/04 17:56:54	Fixed (	0.0, 0.0)		synoptic, shifted -13.0 min										
06/05 06:08:30 - 06/05 06:15:24	Fixed (	0.0, 0.0)		synoptic, shifted 5.5 min										

PROG= 15 1-time(s)												
└─ Subr= 1 1-time(s) 12.0sec												
└─ Seqn= 80 1-time(s) 4.0sec												
	Open/Al-mesh	Open/Al-mesh close	Safe Norm	16ms	Obs 2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
	Open/Al-mesh	Open/Al-mesh close	Safe Norm	1.00s	Obs 2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
└─ Seqn= 5 1-time(s) 2.0sec												
	Open/Ti-poly	Open/thick-Al close	Safe Dark	500ms	Obs 2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
	Open/Ti-poly	Open/thick-Al close	Safe Dark	500ms	Obs 4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
	Open/Ti-poly	Open/thick-Al close	Safe Dark	500ms	Obs 8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
	Open/Ti-poly	Open/thick-Al close	Safe Dark	500ms	Obs 1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec		
	Open/Ti-poly	Open/thick-Al close	Safe Dark	500ms	Obs 1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec		
└─ Seqn= 81 1-time(s) 4.0sec												
	Open/Ti-poly	Open/Ti-poly close	Safe Norm	32ms	Obs 2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
	Open/Ti-poly	Open/Ti-poly close	Safe Norm	2.00s	Obs 2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
└─ Seqn= 4 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

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Flare mode

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XOB #1776: Flare Response short exp at first- Dynamics - Thick-Al - Thick-Be - AEC 1 - 384x384 - Q95														
Term	Pointing (x, y)		Comment											
06/03 11:19:30 - 06/03 17:24:00	Track (	336.1, 190.5)	[Ⓜ] 06/03 10:58:00	# OP start + 10min : AR11073 tracking observation										
06/03 18:20:02 - 06/04 05:53:54	Track (	396.4, 189.8)	[Ⓜ] 06/03 18:17:00	# cont.										
06/04 06:07:02 - 06/04 17:46:54	Track (	489.3, 188.6)	[Ⓜ] 06/04 06:04:00	# cont.										
06/04 18:00:02 - 06/05 06:05:24	Track (	576.5, 187.4)	[Ⓜ] 06/04 17:57:00	# cont.										
06/05 06:18:32 - 06/05 10:20:54	Track (	658.8, 186.3)	[Ⓜ] 06/05 06:15:30	# cont.										

PROG= 13 1-time(s)												
└─ Subr= 1 2-time(s) 2.0sec												
└─ Seqn= 9 15-time(s) 20.0sec												
	Open/thick-Al	Open/thick-Al close	Safe Norm	250ms	Obs 1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec		
	Open/thick-Be	Open/thick-Be close	Safe Norm	2.00s	Obs 1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec		
└─ Seqn= 2 1-time(s) 4.0sec												
	Open/G-band	Open/G-band open	Safe Norm	63ms	Obs 1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec		
└─ Subr= 2 8-time(s) 2.0sec												
└─ Seqn= 9 15-time(s) 60.0sec												
	Open/thick-Al	Open/thick-Al close	Safe Norm	250ms	Obs 1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec		
	Open/thick-Be	Open/thick-Be close	Safe Norm	2.00s	Obs 1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec		
└─ Seqn= 2 1-time(s) 4.0sec												
	Open/G-band	Open/G-band open	Safe Norm	63ms	Obs 1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec		
└─ Subr= 3 25-time(s) 2.0sec												
└─ Seqn= 9 1-time(s) 600.0sec												
	Open/thick-Al	Open/thick-Al close	Safe Norm	250ms	Obs 1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec		
	Open/thick-Be	Open/thick-Be close	Safe Norm	2.00s	Obs 1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec		

Seqn= 2 1-time(s) 4.0sec

Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	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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Active Region Search

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NOT USED

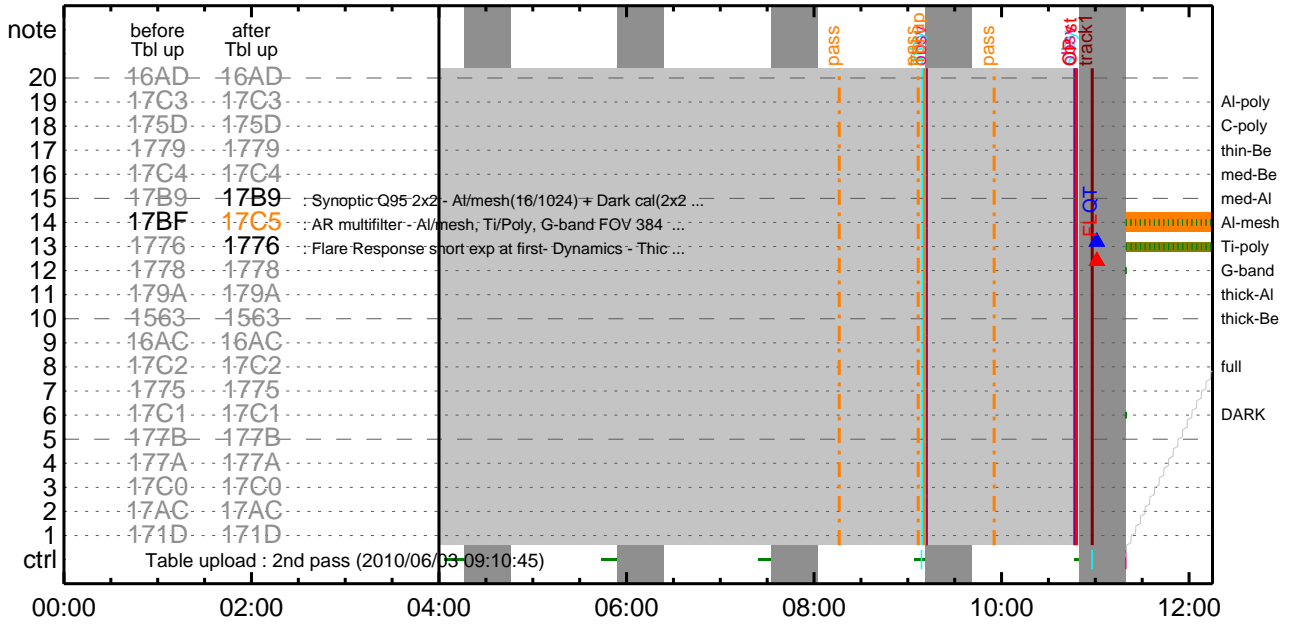
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Flare Detection

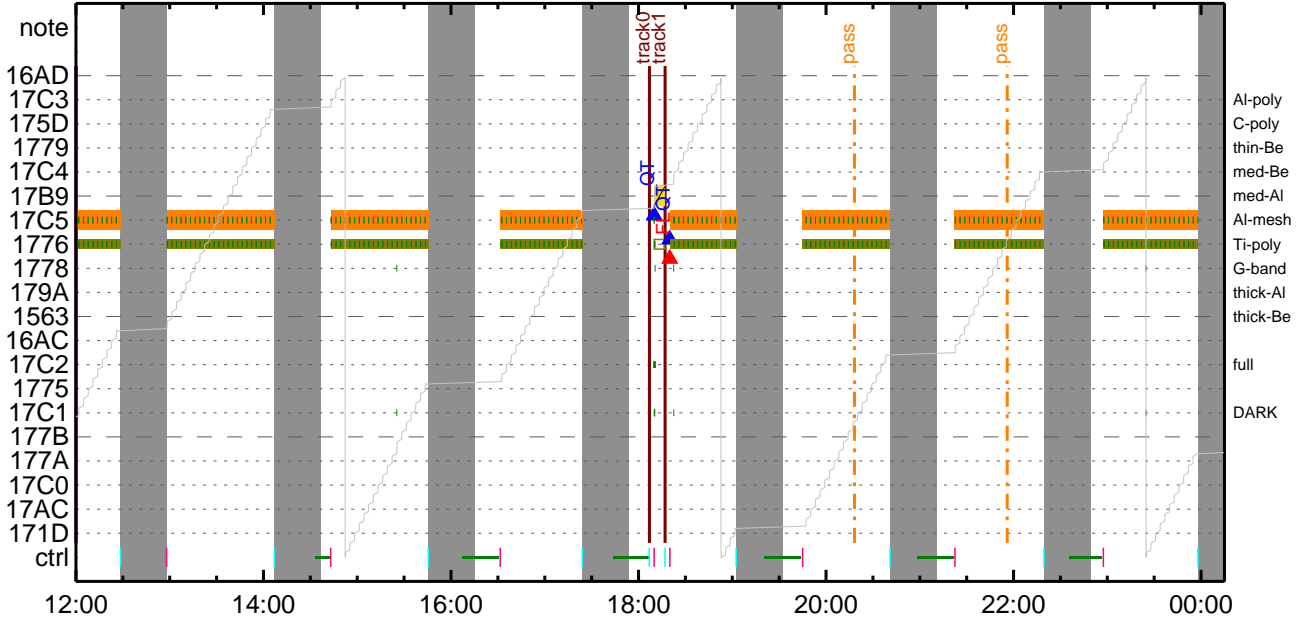
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FLD Patrol												
Term		Pointing (x, y)				Comment						
06/03 10:58:18 - 06/03 18:07:16	Track (336.1, 190.5)	⑥ 06/03 10:58:00				# OP start + 10min : AR11073 tracking observation						
06/03 18:17:18 - 06/04 05:54:16	Track (396.4, 189.8)	⑥ 06/03 18:17:00				# cont.						
06/04 06:04:18 - 06/04 17:47:16	Track (489.3, 188.6)	⑥ 06/04 06:04:00				# cont.						
06/04 17:57:18 - 06/05 06:05:46	Track (576.5, 187.4)	⑥ 06/04 17:57:00				# cont.						
06/05 06:15:48 - 06/08 11:15:00	Track (658.8, 186.3)	⑥ 06/05 06:15:30				# cont.						
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8ms	Obs	8x8		Q=50			30sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

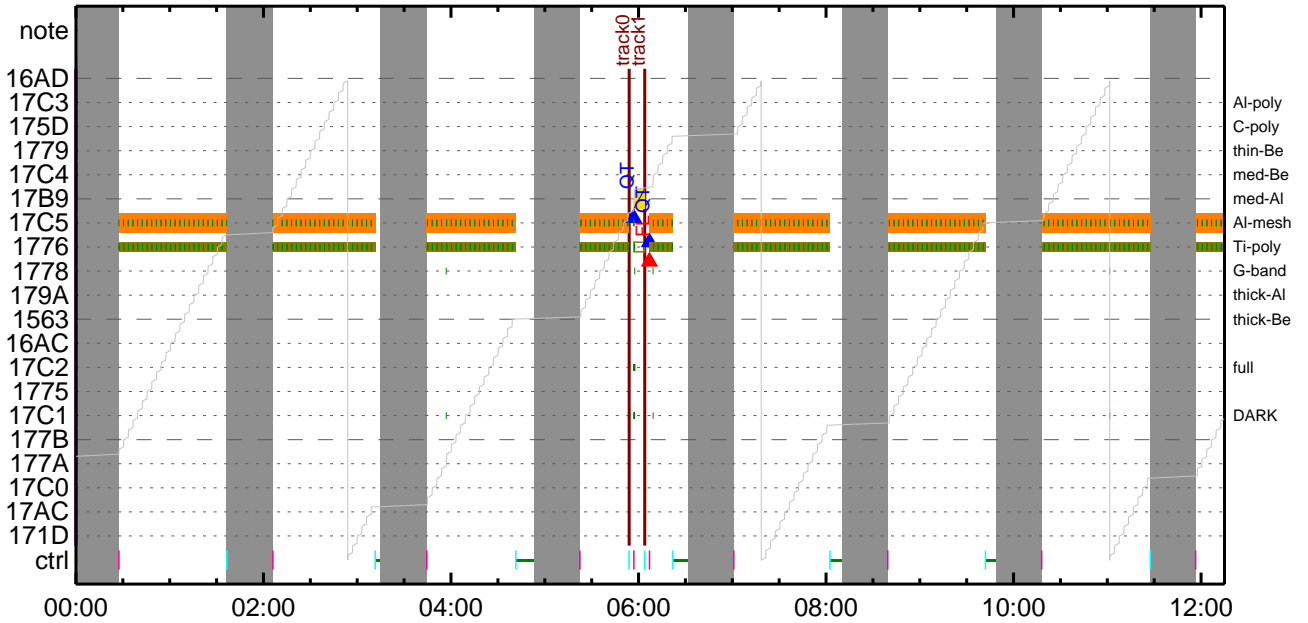
CMDI #0293 2010/06/03



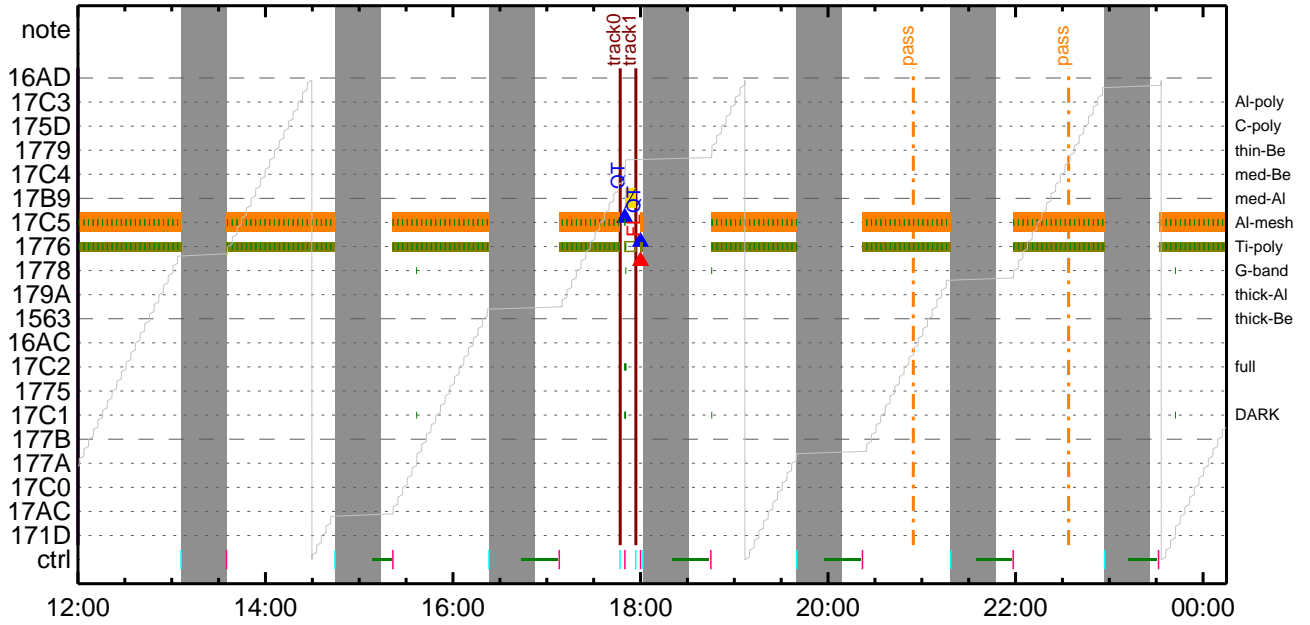
CMDI #0293 2010/06/03



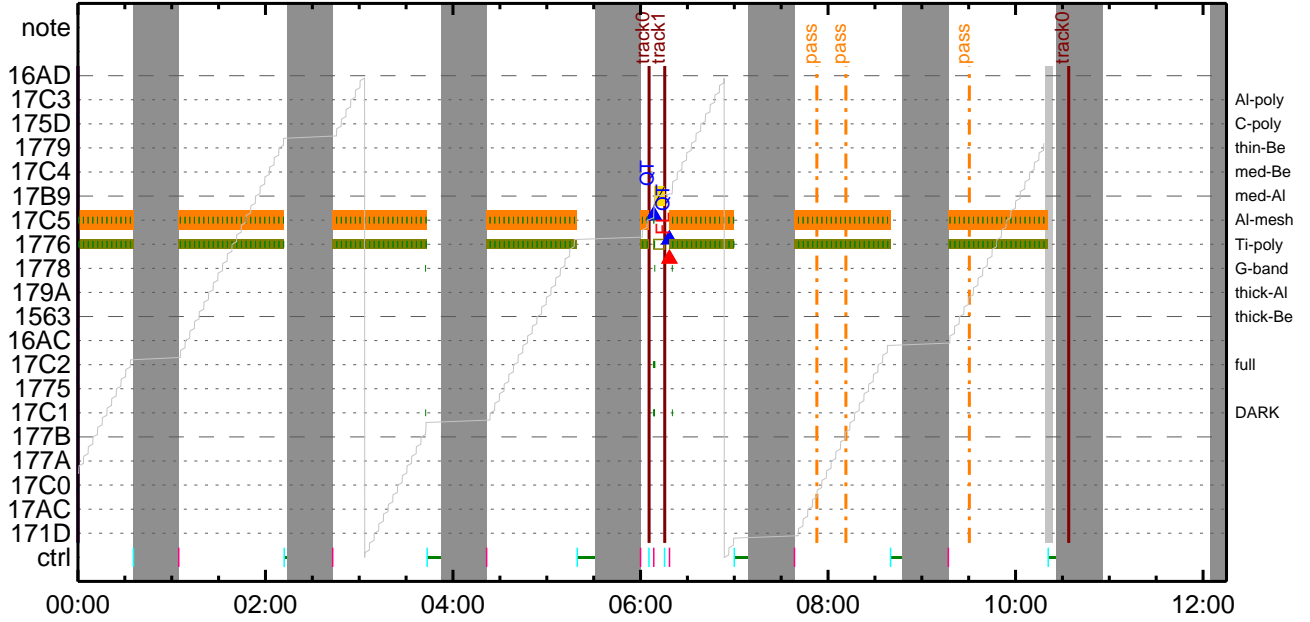
CMDI #0293 2010/06/04



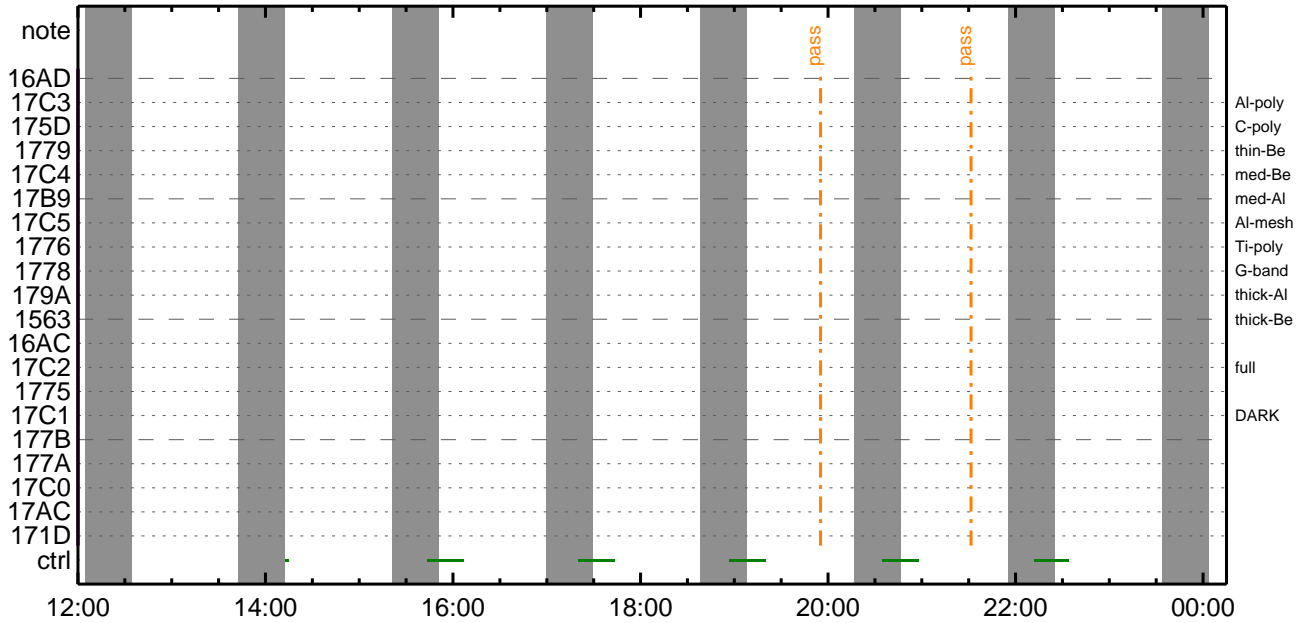
CMDI #0293 2010/06/04



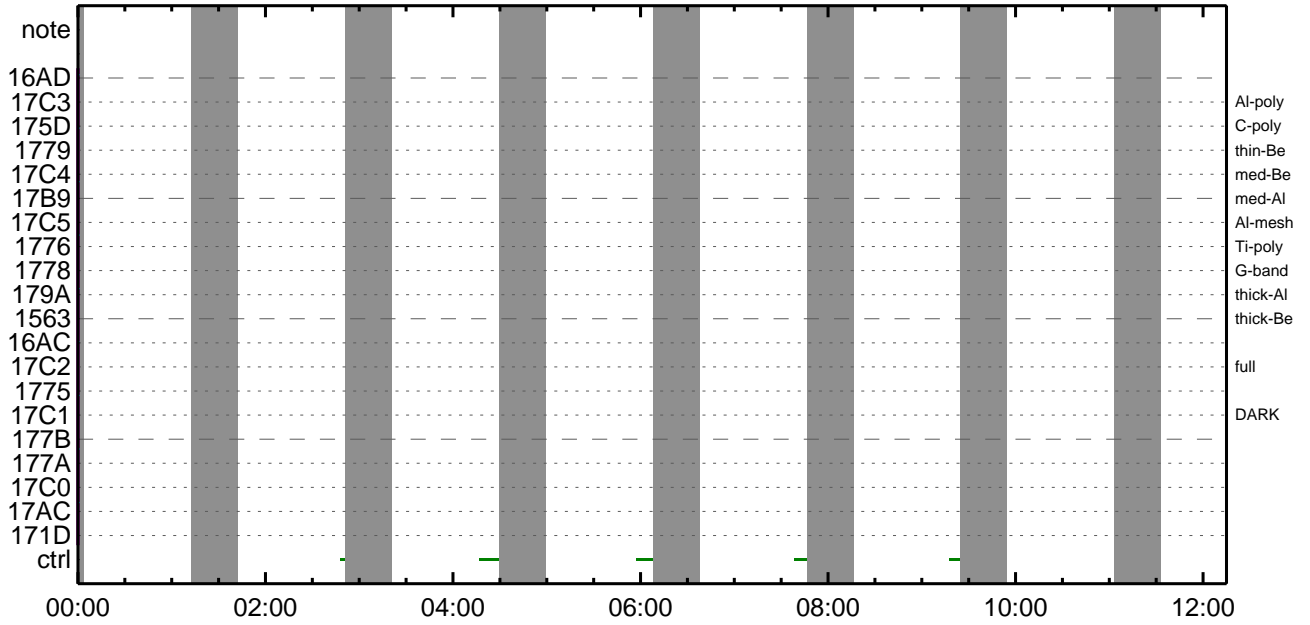
CMDI #0293 2010/06/05



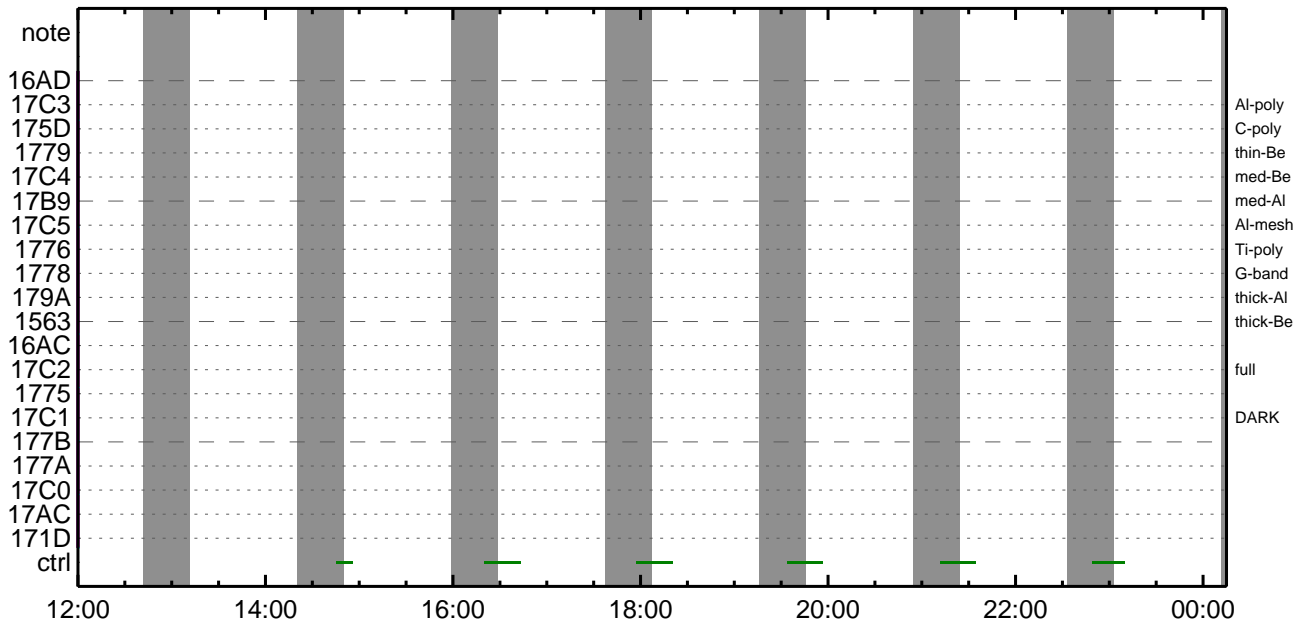
CMDI #0293 2010/06/05



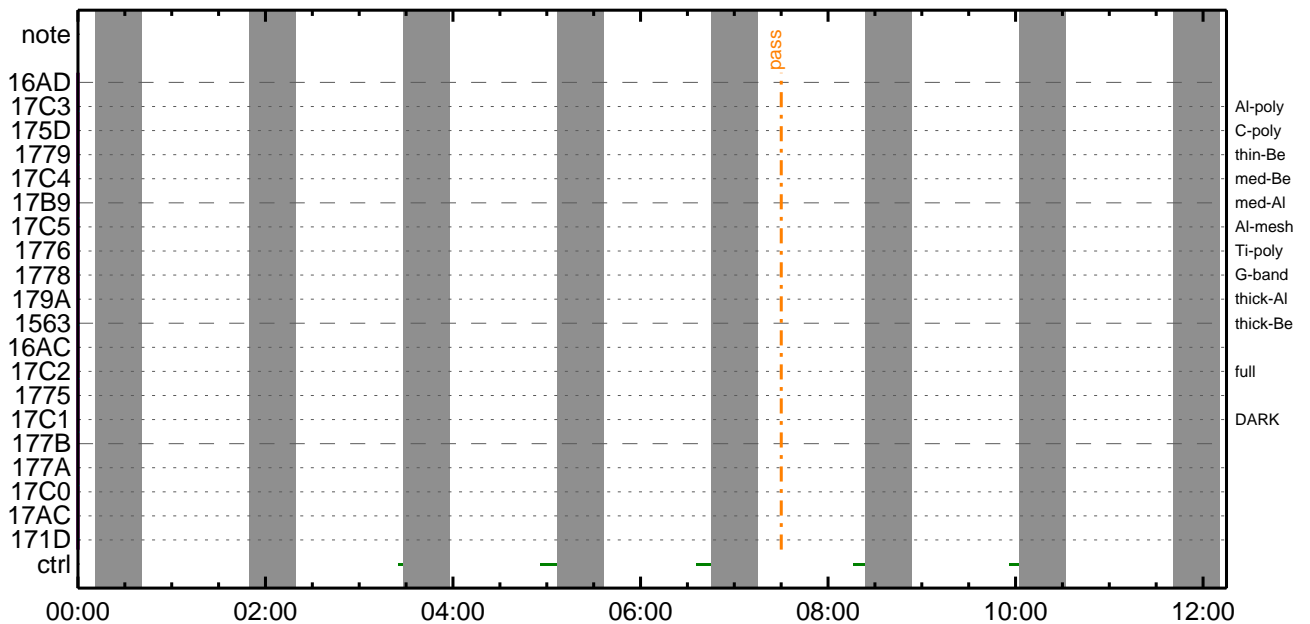
CMDI #0293 2010/06/06



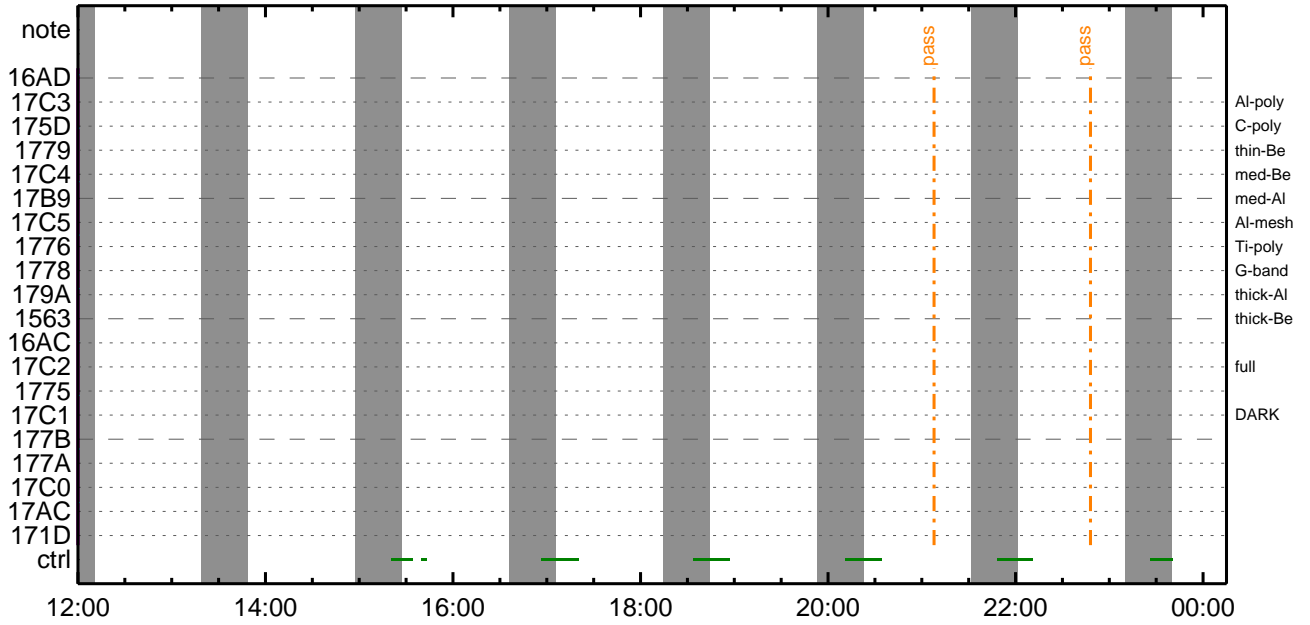
CMDI #0293 2010/06/06



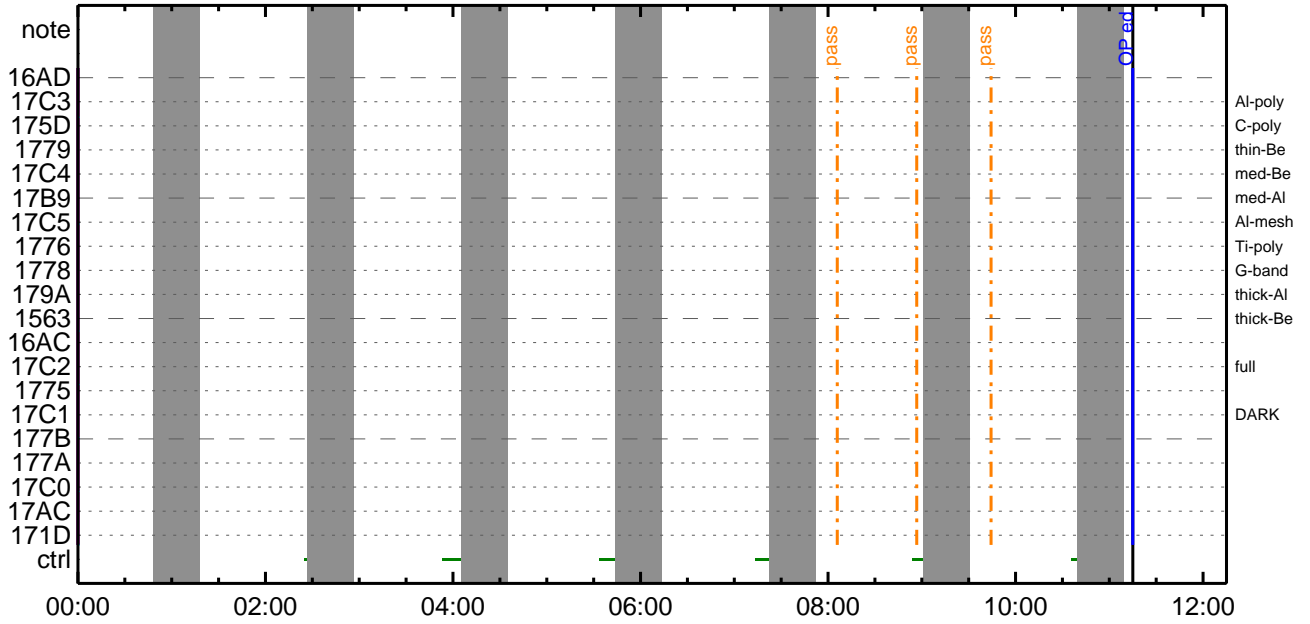
CMDI #0293 2010/06/07



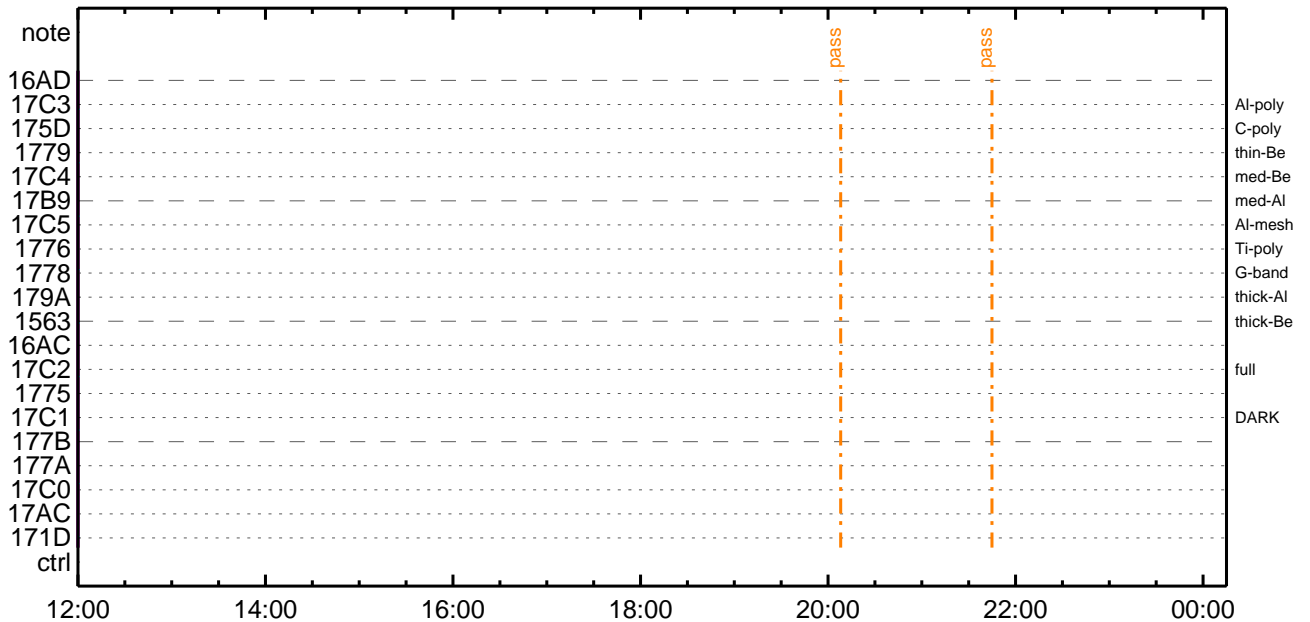
CMDI #0293 2010/06/07



CMDI #0293 2010/06/08



CMDI #0293 2010/06/08



(a) Spacecraft Operation Procedure (real-commands)

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main-391 2010-06-03 15:56:35 289 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSÝÁÝSÝÁÝ-¼Á»Û;ã
0005 C.
0006 C. ÝÀÝß;¼Ý³ÝPÝÓÝÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ëð¿ðÁð•µ°Ë»Í×ÁÇðÍÝÇÝÁÝ×ÝÍ;¼ÝÉ;ËËÈ¼µ•ííË;ËðË¼°ÇÓð•ð¿¼í¹ÇðÍ;ÇÀ®, ùð¹ðËððÇÀ+¿®ð•ðËððð³ðË;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ+¿@µ;ON
0016 C. *****
0017 C. Ç" °ËÀ, Í×ËÝðáLðSðPçðÍ»P`Öðð¹íí, ð•; ÇËÓÍ×ðËXÁÓONðí¹ÔðËðíðËððð³ðË;f
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. ÇÇ[HK1_XPA_ON/OFF] EQ ON
0025 C. ÇÇ[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. ÇÇ[HK1_XMOD_ON/OFF] EQ ON
0027 C. ÇÇ[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XÝDÝÓÝÉÝÍÝÁÝ-¾ÔÁÖð-òÁÀðð•ð¿ðÉ; Ç°Ë²¼ðí°ËÀ, ¼È¼Çðð¼Á¹Ôð¹ðÉ;f
0030 C.
0031 . C. *****
0032 C. DR PT1 Áí¼í°ËÀ,
0033 C. *****
0034 C. Ç" RESTART;ËPT1;Ëð•ð¿ð¼¼í¹ÇðÍ; Ç°Ë²¼ðí°ËÀ¹Ôð»ð°; ÇDCBC-150ðØ¿Ëðà;f
0035 C.
0036 . C. ;ãPT1°ËÀ, ³«»Û;ã
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. ÇÇ[HK1_REP_PT_1/2] EQ PT1 (¼Á¹Ô, ;¼Ú)
0043 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Á¹Ô, ;¼Ú)
0044 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ô, ;¼Ú)
0045 C.
0046 . C. ;ãÝÇÝÓÝËÝËËÁÙÁØ;ËÁ•Á°²óËð;Ë, áðí°ËÀ, °Ë³«;ã
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. ÇÇ[HK1_REP_PT_1/2] EQ PT1 (¼Á¹Ô, ;¼Ú)
0050 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Á¹Ô, ;¼Ú)
0051 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ô, ;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°ËÀ, ð-¼«Ë°Áá»ßð•ð¿, á; Ç°Ë²¼ð¼¼Á¹Ôð¹ðÉ;f
0055 C. ÝÇÝÓÝËÝËËÁÙÁØðáÁ•Á°²óËðð-¼áð¼¼í¹ÇðÍ`°í»ð¹ðËðPçÀÔðÁ;f
0056 C.
0057 . C. *****
0058 C. DR PT2 Áí¼í°ËÀ,
0059 C. *****
0060 C. Ç" RESTART;ËPT2;Ëð•ð¿ð¼¼í¹ÇðÍ; Ç°Ë²¼ðí°ËÀ¹Ôð»ð°; ÇDCBC-151ðØ¿Ëðà;f
0061 C.
0062 . C. ;ãPT2°ËÀ, ³«»Û;ã
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. ÇÇ[HK1_REP_PT_1/2] EQ PT2 (¼Á¹Ô, ;¼Ú)
0069 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Á¹Ô, ;¼Ú)
0070 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ô, ;¼Ú)
0071 C.
0072 . C. ;ãÝÇÝÓÝËÝËËÁÙÁØ;ËÁ•Á°²óËð;Ë, áðí°ËÀ, °Ë³«;ã
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. ÇÇ[HK1_REP_PT_1/2] EQ PT2 (¼Á¹Ô, ;¼Ú)
0076 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Á¹Ô, ;¼Ú)
0077 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ô, ;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°ËÀ, Áá»ß; ÇXÁ+¿@µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°ËÀ, Áá»ß;ã
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. ÇÇ[HK1_REP_STA/STP] EQ STOP
0087 C. ÇÇ[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÁ+¿@µ;OFF;ã
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. ÇÇ[HK1_XMOD_ON/OFF] EQ OFF
0095 C. ÇÇ[HK1_XPA_ON/OFF] EQ OFF

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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAYOX
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-391:OP
0104 ( )
0105 S. OG og-391:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYOX;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. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YAYOXx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOGãî½E¹ç•è²îOKò³îÇ§
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. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YAYOXx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOGãî½E¹ç•è²îOKò³îÇ§
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. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YAYOXx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OPãî½E¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** òE²¼òî½Ã´¶Á°òEÉ-ò°Á÷¿@ (¼âµ-YAYOXx½ê½çòðÁÓæòÇ¼ª°"òE¼i¹çòçòâ) *****
0167 C. DHUYâ;4YE;E½Y½;Yi;4YE;Eòðîã¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[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 UPLOADã-Á÷¿@NGUî½i¹ç;ç°E²¼òîTI-CMDÁ÷¿@ãî½Á¹Ôª•òEòòò³òE;f
0180 C. òEò¿;çSETòEDUMPAîE±°iYNY¹ç¹Ôª|ò³òE;f
0181 C.
0182 C. TIY³YpYóYEòðÁDî¿(UT)
0183 +. TI 2010-06-03 10:43:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2010-06-03 10:43:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2010-06-03 10:43:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

```


0194 C.
0195 +. TI 2010-06-03 10:47:59.5
0196 DC 01-B2 DHU_OP_START
0197 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0198 C.
0199 C. °Ê²¼□îÄë%îíñ□îŷÄŷ§ŷÄŷ-¹âiü
0200 C. çç[HK1_TI_CMD_ENA/DIS] EQ ENA
0201 C. çç[HK1_TI_CMD_NUM] EQ 4
0202 C. çç[HK1_NEXT_EXEC_PIM] EQ DHU
0203 C. çç[HK1_NEXT_EXEC_DC] EQ 0xB3
0204 C.
0205 C. *****
0206 C. TIîŷ°èŷÄŷÖŷ×
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. çç[HK1_DMP_TOP_ADRS_1] EQ 07
0213 C. çç[HK1_DMP_TOP_ADRS_0] EQ 2B
0214 C. çç[HK1_DMP_BLOCK_NUM] EQ 3
0215 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0216 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC (07 0b f8)
0219 C. çç[HK1_PKT_FORM_NO] EQ 7
0220 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0221 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0222 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0223 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0224 C.
0225 C. ŷÄŷÖŷ×½ªî»□ð³îç§
0226 C. çç[HK1_DMP_CHK_FLG] EQ NON
0227 C.
0228 C. RAM ID=TI_TBL□îŷ°è²îOK□ð³îç§
0229 C.
0230 C. DHUŷâ;¼ŷÉ;Ê¼ŷ¼. ŷî;¼ŷÉ;Ê□ðîâ□
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC (02 0a f8)
0233 C. çç[HK1_PKT_FORM_NO] EQ 2
0234 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0235 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0236 C. çç[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 2010-06-03 10:47:16.0
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 2010-06-03 10:47:30.0
0256 DC 07-FC EIS_MODE_MANU
0257 BC (21 02)
0258 +. TI 2010-06-03 10:47:40.0
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 2010-06-03 10:47:00.0
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 ´ûÄî□î»ö¼ŷ□èÄð□èDCBC.×²è *****
0276 C. (¼ª°îŷÖŷÄŷÉŷŷŷÉŷ¼ŷçŷèè¼□□¼ª»Û□è)
0277 S. DC-BC dcbc-402:DCBC
0278 (MDP_known_event)
0279 C.
0280 C.
0281 C. ***** ŷÐŷ¹.î Daily±çîñ□è'Ø□èDCBC.×²è *****
0282 S. DC-BC dcbc-153:DCBC
0283 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284 C.
0285 C.
0286 C. ;ãLOSŷÄŷ§ŷÄŷ-¼ª»Û;ã
0287 C.
0288 C. ***** LOS *****
0289 C.

(a) Spacecraft Operation Procedure (real-commands)

```
main-392 2010-06-03 15:56:35 167 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;Èα¿αÁα•μ°È»Í×ÁÇαíYçYÁY×Yí;¼YÉ;ÈÈ%μ•íÉ;ÈÈ¼°ÇÔα•α¿¼í¹çαÍ;çÀ®, ùα¹αÈαBαÇÁ+¿®α•αÈααα³αÈ;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.
0046 C. ***** XRT START *****
0047 C.
0048 +. DC 07-F0 MDP_XRT_CTRL_MANU
0049 BC (c1)
0050 + DC 07-F0 MDP_XRT_MODE_STBY
0051 BC (c3)
0052 . C. ----- Success Verify ? OK / NG_____
0053 C.
0054 C. XRT Obs. Table Upload
0055 . S. RAM ram-291:MDP_OBS_X
0056 ( )
0057 C.
0058 +. DC 07-F0 MDP_DUMP_XRTTBL
0059 BC (84 07 00 00 00 3a d4)
0060 . C. ----- Comparison Check ? OK / ERR _____
0061 C.
0062 C.
0063 +. DC 07-F0 MDP_XRT_ROI_SET
0064 BC (cd 01 b1 b1 04 04)
0065 + DC 07-F0 MDP_XRT_ROI_SET
0066 BC (cd 02 b1 b1 08 08)
0067 + DC 07-F0 MDP_XRT_ROI_SET
0068 BC (cd 03 b1 b1 08 08)
0069 + DC 07-F0 MDP_XRT_ROI_SET
0070 BC (cd 04 b1 b1 06 06)
0071 + DC 07-F0 MDP_XRT_ROI_SET
0072 BC (cd 06 80 80 06 06)
0073 + DC 07-F0 MDP_XRT_ROI_SET
0074 BC (cd 07 80 80 08 08)
0075 + DC 07-F0 MDP_XRT_ROI_SET
0076 BC (cd 08 80 80 20 20)
0077 + DC 07-F0 MDP_XRT_ROI_SET
0078 BC (cd 09 80 80 20 08)
0079 + DC 07-F0 MDP_XRT_ROI_SET
0080 BC (cd 0a 80 80 08 20)
0081 + DC 07-F0 MDP_XRT_ROI_SET
0082 BC (cd 0f 80 80 06 06)
0083 + DC 07-F0 MDP_XRT_AEC_RESET
0084 BC (d0)
0085 . C. ----- Success Verify ? OK / NG _____
0086 C.
0087 C.
0088 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0089 C.
0090 +. DC 07-F0 MDP_XRT_MODE_OBSV
0091 BC (c2)
0092 +. TI 2010-06-03 10:47:02.0
0093 DC 07-F0 MDP_XRT_MODE_OBSV
0094 BC (c2)
0095 . C. ----- Success Verify ? OK / NG _____
```

```

0096 C.
0097 C. ***** XRT END *****
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-263: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. *****
0120 C. SOT TI command set
0121 C. *****
0122 C. Execute, after the success of TBL upload.
0123 +. TI 2010-06-03 10:47:18.0
0124 DC 07-F0 MDP_SOT_MODE_OBSV
0125 BC (40)
0126 . C. -----
0127 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0128 C. -----
0129 C.
0130 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0131 +. DC 07-FC EIS_MODE_MANU
0132 BC (21 02)
0133 . C. Verify EIS in MANUAL mode
0134 . C. Estimated OBSTBL upload time is 11s
0135 C. *****
0136 C. EIS START OBSTBL LOAD
0137 C. *****
0138 . S. RAM ram-820:EIS_OBSTBL
0139 ( )
0140 +. DC 07-FC EIS_DUMP_OBSTBL
0141 BC (07 07 07 00 00 70 00)
0142 C.
0143 C. Execute, after the success of OBSTBL upload.
0144 C. Set EIS TI-commands
0145 +. TI 2010-06-03 10:47:50.0
0146 DC 07-FC EIS_MODE_CHG_ENA
0147 BC (20)
0148 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0149 C. *****
0150 C. EIS END OBSTBL LOAD
0151 C. *****
0152 C.
0153 C. ***** MDP `úãîï»ö%ýðÉâð¹æDCBC•x²è *****
0154 C. (%á°îÿÓYÁYËYËYáYçYèðÉ%¼ð¼Á»Û¹æ)
0155 . S. DC-BC dcbc-402:DCBC
0156 (MDP_known_event)
0157 C.
0158 C.
0159 . C. ***** YDÿ¹•Ï Daily±çÍÑðÉ'Ø¹æDCBC•x²è *****
0160 . S. DC-BC dcbc-153:DCBC
0161 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0162 C.
0163 C.
0164 . C. ;ãLOS¥Á¥$¥Ã¥-¼Á»Û;ä
0165 C.
0166 . C. ***** LOS *****
0167 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-393 2010-06-03 15:56:35 29 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YFYOYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿µ°Æ»Í×ÁÇóÍYçYÁY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈÈÈ¼°ÇÔα•¿¿i¹çαÍ;çÀ®, ùα¹αèαβαÇÁ+¿®α•αÊααα³αÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 . C. ***** MDP `úÁíσí»ò¼YαÉÊα¹αèDCBC•x²è *****
0016 C. (¼á°íYÓYÁYÉYB¥ÉYáYçYèαÈ¼αα¼Á»Ûα¹αè)
0017 . S. DC-BC dcbc-402:DCBC
0018 (MDP_known_event)
0019 C.
0020 C.
0021 . C. ***** YD¥¹•İ Daily+¿İÑαÈ´Øα¹αèDCBC•x²è *****
0022 . S. DC-BC dcbc-153:DCBC
0023 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0024 C.
0025 C.
0026 . C. ;ãLOSÁYŞYÁY-¼Á»Û;ã
0027 C.
0028 . C. ***** LOS *****
0029 C.
```

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*** OP Sequence for XRT ***

2010/06/03	10:57:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	10:57:56.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2010/06/03	10:58:00.0	AOCS_Ore-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	01 00 00 00 00				
2010/06/03	10:58:16.0	XRT_AEC_RESET_428_OG [0x1ac]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2010/06/03	10:58:18.0	XRT_FLD_ENA_402_OG [0x192]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2010/06/03	10:58:20.0	XRT_FLD_RESET_403_OG [0x193]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2010/06/03	10:58:22.0	XRT_FLRCTRL_ENA_418_OG [0x1a2]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2010/06/03	10:58:24.0	XRT_ARS_DIS_405_OG [0x195]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/06/03	11:00:58.0	XRT_QT_PROG_SET_443_OG [0x1bb]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e				
2010/06/03	11:01:00.0	XRT_FL_PROG_SET_442_OG [0x1ba]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d				
2010/06/03	11:19:30.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/03	12:28:30.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	12:58:00.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/03	14:07:00.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	14:42:00.0	XRT_Custom_410_OG [0x19a]							
2010/06/03	14:43:00.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/03	15:45:30.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	16:30:30.0	XRT_Custom_410_OG [0x19a]							
2010/06/03	16:31:30.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/03	17:24:00.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	18:06:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	18:06:56.0	XRT_FOCUS_POSITION_412_OG [0x19c]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2010/06/03	18:07:00.0	AOCS_Ore-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2010/06/03	18:07:16.0	XRT_FLD_DIS_413_OG [0x19d]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2010/06/03	18:07:18.0	XRT_FLRCTRL_DIS_414_OG [0x19e]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2010/06/03	18:07:20.0	XRT_ARS_DIS_415_OG [0x19f]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/06/03	18:09:58.0	XRT_QT_PROG_SET_438_OG [0x1b6]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f				
2010/06/03	18:10:00.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/03	18:16:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	18:16:56.0	XRT_FOCUS_POSITION_401_OG [0x191]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2010/06/03	18:17:00.0	AOCS_Ore-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	01 00 00 00 00				
2010/06/03	18:17:16.0	XRT_AEC_RESET_428_OG [0x1ac]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2010/06/03	18:17:18.0	XRT_FLD_ENA_402_OG [0x192]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2010/06/03	18:17:20.0	XRT_FLD_RESET_403_OG [0x193]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2010/06/03	18:17:22.0	XRT_FLRCTRL_ENA_418_OG [0x1a2]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2010/06/03	18:17:24.0	XRT_ARS_DIS_405_OG [0x195]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/06/03	18:19:58.0	XRT_QT_PROG_SET_443_OG [0x1bb]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e				
2010/06/03	18:20:00.0	XRT_FL_PROG_SET_442_OG [0x1ba]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d				
2010/06/03	18:20:02.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/03	19:02:30.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	19:44:00.0	XRT_Custom_410_OG [0x19a]							
2010/06/03	19:45:00.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/03	20:41:00.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	21:21:30.0	XRT_Custom_410_OG [0x19a]							
2010/06/03	21:22:30.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/03	22:19:30.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/03	22:56:30.0	XRT_Custom_410_OG [0x19a]							
2010/06/03	22:57:30.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				

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2010/06/03	23:58:00.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	00:27:30.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	01:36:30.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	02:06:00.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	03:11:30.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	03:44:30.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	04:41:30.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	05:22:30.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	05:53:54.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	05:53:56.0	XRT_FOCUS_POSITION_412_OG [0x19c]					
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2010/06/04	05:54:00.0	AOCS_OrE-point_Start_2_OG [0x098]					
		AOCU_NM	5	02-76	00 00 00 00 00		
2010/06/04	05:54:16.0	XRT_FLD_DIS_413_OG [0x19d]					
		MDP_XRT_FLD_DIS	1	07-F0	d9		
2010/06/04	05:54:18.0	XRT_FLRCTRL_DIS_414_OG [0x19e]					
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2010/06/04	05:54:20.0	XRT_ARS_DIS_415_OG [0x19f]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2010/06/04	05:56:58.0	XRT_QT_PROG_SET_438_OG [0x1b6]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f		
2010/06/04	05:57:00.0	XRT_CTRL_AUTO_408_OG [0x198]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	06:03:54.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	06:03:56.0	XRT_FOCUS_POSITION_401_OG [0x191]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2010/06/04	06:04:00.0	AOCS_OrE-point_Start_1_OG [0x097]					
		AOCU_NM	5	02-76	01 00 00 00 00		
2010/06/04	06:04:16.0	XRT_AEC_RESET_428_OG [0x1ac]					
		MDP_XRT_AEC_RESET	1	07-F0	d0		
2010/06/04	06:04:18.0	XRT_FLD_ENA_402_OG [0x192]					
		MDP_XRT_FLD_ENA	1	07-F0	d8		
2010/06/04	06:04:20.0	XRT_FLD_RESET_403_OG [0x193]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2010/06/04	06:04:22.0	XRT_FLRCTRL_ENA_418_OG [0x1a2]					
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2010/06/04	06:04:24.0	XRT_ARS_DIS_405_OG [0x195]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2010/06/04	06:06:58.0	XRT_QT_PROG_SET_443_OG [0x1bb]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e		
2010/06/04	06:07:00.0	XRT_FL_PROG_SET_442_OG [0x1ba]					
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d		
2010/06/04	06:07:02.0	XRT_CTRL_AUTO_408_OG [0x198]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	06:22:00.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	07:01:00.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	08:02:30.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	08:39:30.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	09:42:00.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	10:18:00.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	11:27:30.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	11:56:30.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	13:06:00.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	13:35:00.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	14:44:30.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	15:20:30.0	XRT_Custom_410_OG [0x19a]					
2010/06/04	15:21:30.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	16:23:00.0	XRT_CTRL_MANU_409_OG [0x199]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	17:07:00.0	XRT_Custom_410_OG [0x19a]					
2010/06/04	17:08:00.0	XRT_CTRL_AUTO_411_OG [0x19b]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2010/06/04	17:46:54.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2010/06/04	17:46:56.0	XRT_FOCUS_POSITION_412_OG [0x19c]					
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2010/06/04	17:47:00.0	AOCS_OrE-point_Start_2_OG [0x098]					
		AOCU_NM	5	02-76	00 00 00 00 00		
2010/06/04	17:47:16.0	XRT_FLD_DIS_413_OG [0x19d]					
		MDP_XRT_FLD_DIS	1	07-F0	d9		
2010/06/04	17:47:18.0	XRT_FLRCTRL_DIS_414_OG [0x19e]					

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2010/06/04	17:47:20.0	XRT_ARS_DIS_415_OG [0x19f]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
			MDP_XRT_ARS_DIS	1	07-F0	d5
2010/06/04	17:49:58.0	XRT_QT_PROG_SET_438_OG [0x1b6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f
2010/06/04	17:50:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/04	17:56:54.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/04	17:56:56.0	XRT_FOCUS_POSITION_401_OG [0x191]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2010/06/04	17:57:00.0	AOCS_Ore-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	01 00 00 00 00
2010/06/04	17:57:16.0	XRT_AEC_RESET_428_OG [0x1ac]	MDP_XRT_AEC_RESET	1	07-F0	d0
2010/06/04	17:57:18.0	XRT_FLD_ENA_402_OG [0x192]	MDP_XRT_FLD_ENA	1	07-F0	d8
2010/06/04	17:57:20.0	XRT_FLD_RESET_403_OG [0x193]	MDP_XRT_FLD_RESET	1	07-F0	da
2010/06/04	17:57:22.0	XRT_FLRCTRL_ENA_418_OG [0x1a2]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2010/06/04	17:57:24.0	XRT_ARS_DIS_405_OG [0x195]	MDP_XRT_ARS_DIS	1	07-F0	d5
2010/06/04	17:59:58.0	XRT_QT_PROG_SET_443_OG [0x1bb]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e
2010/06/04	18:00:00.0	XRT_FL_PROG_SET_442_OG [0x1ba]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2010/06/04	18:00:02.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/04	18:01:30.0	XRT_CTRL_MANU_409_OG [0x199]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/04	18:44:00.0	XRT_Custom_410_OG [0x19a]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/04	18:45:00.0	XRT_CTRL_AUTO_411_OG [0x19b]	MDP_XRT_CTRL_AUTO	1	07-F0	c1
2010/06/04	19:40:00.0	XRT_CTRL_MANU_409_OG [0x199]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/04	20:21:00.0	XRT_Custom_410_OG [0x19a]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/04	20:22:00.0	XRT_CTRL_AUTO_411_OG [0x19b]	MDP_XRT_CTRL_AUTO	1	07-F0	c1
2010/06/04	21:18:30.0	XRT_CTRL_MANU_409_OG [0x199]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/04	21:57:30.0	XRT_Custom_410_OG [0x19a]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/04	21:58:30.0	XRT_CTRL_AUTO_411_OG [0x19b]	MDP_XRT_CTRL_AUTO	1	07-F0	c1
2010/06/04	22:57:00.0	XRT_CTRL_MANU_409_OG [0x199]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/04	23:30:30.0	XRT_Custom_410_OG [0x19a]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/04	23:31:30.0	XRT_CTRL_AUTO_411_OG [0x19b]	MDP_XRT_CTRL_AUTO	1	07-F0	c1
2010/06/05	00:35:30.0	XRT_CTRL_MANU_409_OG [0x199]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/05	01:04:30.0	XRT_CTRL_AUTO_411_OG [0x19b]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/05	02:12:00.0	XRT_CTRL_MANU_409_OG [0x199]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/05	02:43:00.0	XRT_CTRL_AUTO_411_OG [0x19b]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/05	03:43:30.0	XRT_CTRL_MANU_409_OG [0x199]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/05	04:21:30.0	XRT_CTRL_AUTO_411_OG [0x19b]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/05	05:19:30.0	XRT_CTRL_MANU_409_OG [0x199]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/05	06:00:00.0	XRT_CTRL_AUTO_411_OG [0x19b]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/05	06:05:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/05	06:05:26.0	XRT_FOCUS_POSITION_412_OG [0x19c]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2010/06/05	06:05:30.0	AOCS_Ore-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2010/06/05	06:05:46.0	XRT_FLD_DIS_413_OG [0x19d]	MDP_XRT_FLD_DIS	1	07-F0	d9
2010/06/05	06:05:48.0	XRT_FLRCTRL_DIS_414_OG [0x19e]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2010/06/05	06:05:50.0	XRT_ARS_DIS_415_OG [0x19f]	MDP_XRT_ARS_DIS	1	07-F0	d5
2010/06/05	06:08:28.0	XRT_QT_PROG_SET_438_OG [0x1b6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0f
2010/06/05	06:08:30.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2010/06/05	06:15:24.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2010/06/05	06:15:26.0	XRT_FOCUS_POSITION_401_OG [0x191]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2010/06/05	06:15:30.0	AOCS_Ore-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	01 00 00 00 00
2010/06/05	06:15:46.0	XRT_AEC_RESET_428_OG [0x1ac]	MDP_XRT_AEC_RESET	1	07-F0	d0
2010/06/05	06:15:48.0	XRT_FLD_ENA_402_OG [0x192]	MDP_XRT_FLD_ENA	1	07-F0	d8
2010/06/05	06:15:50.0	XRT_FLD_RESET_403_OG [0x193]	MDP_XRT_FLD_RESET	1	07-F0	da

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2010/06/05	06:15:52.0	XRT_FLRCTRL_ENA_418_OG [0x1a2]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2010/06/05	06:15:54.0	XRT_ARS_DIS_405_OG [0x195]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2010/06/05	06:18:28.0	XRT_QT_PROG_SET_443_OG [0x1bb]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e				
2010/06/05	06:18:30.0	XRT_FL_PROG_SET_442_OG [0x1ba]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d				
2010/06/05	06:18:32.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/05	07:00:00.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/05	07:38:30.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/05	08:40:00.0	XRT_CTRL_MANU_409_OG [0x199]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/05	09:17:00.0	XRT_CTRL_AUTO_411_OG [0x19b]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2010/06/05	10:20:54.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2010/06/05	10:34:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				