

XRT Timeline to be uploaded on 2009/01/29

Period: 2009/01/29 11:14:00 - 2009/02/03 12:21:00

* * * * *

Normal mode

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XOB #1563: CCD Monitor During Bakeout - G-band + dark - wide FOV													
Term		Pointing (x, y)						Comment					
01/29 11:33:10 - 01/29 14:00:00		Track (-356.4, 3.8) ^{01/29 11:24:00}						# OP start + 10min, track new AR, with IBIS from 15 UT. XRT in bakeout.					
PROG= 08 Inf.-time(s)													
└─ Subr= 1 1-time(s) 600.0sec													
└─ Seqn= 98 1-time(s) 4.0sec													
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	2048x256 (1024, 1024)	DPCM	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	2048x256 (1024, 1024)	DPCM	0	0	2.0sec
Default Filter		Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #1565: CCD Monitor During Bakeout - G-band + dark - wide FOV - lower cadence (30min)													
Term		Pointing (x, y)						Comment					
01/29 14:04:10 - 01/29 21:23:00		Track (-356.4, 3.8) ^{01/29 11:24:00}						# OP start + 10min, track new AR, with IBIS from 15 UT. XRT in bakeout.					
PROG= 03 Inf.-time(s)													
└─ Subr= 1 1-time(s) 1800.0sec													
└─ Seqn= 98 1-time(s) 4.0sec													
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	2048x256 (1024, 1024)	DPCM	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	2048x256 (1024, 1024)	DPCM	0	0	2.0sec
Default Filter		Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #15A8: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 1st Quadrant													
Term		Pointing (x, y)						Comment					
01/30 03:03:00 - 01/30 03:09:54		Fixed (-528.4, -528.4)						# XRT post-bakeout dither pointing (four in all).					
PROG= 04 1-time(s)													
└─ Subr= 1 1-time(s) 12.0sec													
└─ Seqn= 28 1-time(s) 12.0sec													
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (1536, 1536)	Q=98	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (1536, 1536)	Q=98	0	0	2.0sec
Default Filter		Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #15A9: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 2nd Quadrant													
Term		Pointing (x, y)						Comment					
01/30 03:13:00 - 01/30 03:19:54		Fixed (528.4, -528.4)											
PROG= 19 1-time(s)													
└─ Subr= 1 1-time(s) 12.0sec													
└─ Seqn= 41 1-time(s) 12.0sec													
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (512, 1536)	Q=98	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (512, 1536)	Q=98	0	0	2.0sec
Default Filter		Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #15AA: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 3rd Quadrant													
Term		Pointing (x, y)						Comment					
01/30 03:23:00 - 01/30 03:29:54		Fixed (528.4, 528.4)											
PROG= 12 1-time(s)													
└─ Subr= 1 1-time(s) 12.0sec													
└─ Seqn= 8 1-time(s) 12.0sec													
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (512, 512)	Q=90	0	0	2.0sec
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (512, 512)	Q=90	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (512, 512)	Q=98	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (512, 512)	Q=98	0	0	2.0sec
Default Filter		Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	
XOB #15AB: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 4th Quadrant													
Term		Pointing (x, y)						Comment					
01/30 03:33:00 - 01/30 05:59:00		Fixed (-528.4, 528.4)											
PROG= 09 1-time(s)													
└─ Subr= 1 1-time(s) 12.0sec													
└─ Seqn= 40 1-time(s) 12.0sec													
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (1536, 512)	Q=90	0	0	2.0sec
└─ Open/G-band		Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (1536, 512)	Q=90	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec
└─ Open/thick-Be		Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec
Default Filter		Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #15A3: Synoptic Q95 2x2 - Al/poly(512/5795) + Dark cal(512 Q98) + Ti-poly(723/11571) + G-band(16)												
Term	Pointing (x, y)					Comment						
01/30 06:03:00 - 01/30 08:40:00	Fixed (0.0, 0.0)					synoptic						
01/30 18:03:00 - 01/30 21:53:00	Fixed (0.0, 0.0)					synoptic						
01/31 05:03:00 - 02/03 12:21:00	Fixed (0.0, 0.0)					* Synoptic, shifted manually.						
PROG= 07 1-time(s)												
└─ Subr= 1 1-time(s) 12.0sec												
└─ Seqn= 36 1-time(s) 4.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec												
└─ Al-poly/Open Al-poly/thick-Al close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec												
└─ Seqn= 6 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												
└─ Seqn= 88 1-time(s) 4.0sec												
└─ Open/Ti-poly Open/thick-Al close Safe Norm 707ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec												
└─ Open/Ti-poly Open/thick-Al close Safe Norm 11.3s 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												
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval												

XOB #15E7: HOP81 - Al/poly, G-band - 16s - 384x384												
Term	Pointing (x, y)					Comment						
01/30 08:40:32 - 01/30 17:59:54	Fixed (0.0, 940.0)					* HOP 81, N pole pointing.						
PROG= 06 Inf.-time(s)												
└─ Subr= 1 1-time(s) 2.0sec												
└─ Seqn= 1 1-time(s) 2.0sec												
└─ Open/G-band Open/G-band open Safe Norm 63ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec												
└─ Subr= 2 1-time(s) 2.0sec												
└─ Seqn= 99 30-time(s) 60.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Norm 16.0s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec												
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval												

XOB #1645: Star Cal - HD199143 - Al/Poly (23s) + dark - 1X1 - DPCM - ROI_1- w context												
Term	Pointing (x, y)					Comment						
01/30 21:53:32 - 01/31 01:18:00	Fixed (-682.0, 682.0)					* XRT X-ray stellar calibration.						
PROG= 14 Inf.-time(s)												
└─ Subr= 1 5-time(s) 780.0sec												
└─ Seqn= 82 1-time(s) 25.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Dark 22.6s Obs 1x1 512x256 (272, 1520) DPCM 0 0 5.0sec												
└─ Seqn= 57 30-time(s) 25.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Norm 22.6s Obs 1x1 512x256 (272, 1520) DPCM 0 0 5.0sec												
└─ Subr= 2 1-time(s) 2.0sec												
└─ Seqn= 70 1-time(s) 4.0sec												
└─ Open/G-band Open/G-band open Safe Norm 16ms Obs 2x2 2048x2048 (1024, 1024) Q=90 0 0 2.0sec												
└─ Seqn= 16 1-time(s) 4.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Norm 8.00s 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 #1644: Star Cal - HD199143 - Al/Poly (23s) + dark - 1X1 - DPCM - ROI_2- w context												
Term	Pointing (x, y)					Comment						
01/31 01:18:32 - 01/31 04:59:54	Fixed (-682.0, 682.0)					* XRT X-ray stellar calibration.						
PROG= 10 Inf.-time(s)												
└─ Subr= 1 5-time(s) 780.0sec												
└─ Seqn= 63 1-time(s) 25.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Dark 22.6s Obs 1x1 512x256 (784, 1392) DPCM 0 0 5.0sec												
└─ Seqn= 93 30-time(s) 25.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Norm 22.6s Obs 1x1 512x256 (784, 1392) DPCM 0 0 5.0sec												
└─ Subr= 2 1-time(s) 2.0sec												
└─ Seqn= 16 1-time(s) 4.0sec												
└─ Al-poly/Open Al-poly/Open close Safe Norm 8.00s Obs 2x2 2048x2048 (1024, 1024) Q=90 0 0 2.0sec												
└─ Seqn= 70 1-time(s) 4.0sec												
└─ 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												

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                                Flare mode
                                * * * * *

                                NOT USED

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                                Active Region Search
                                * * * * *

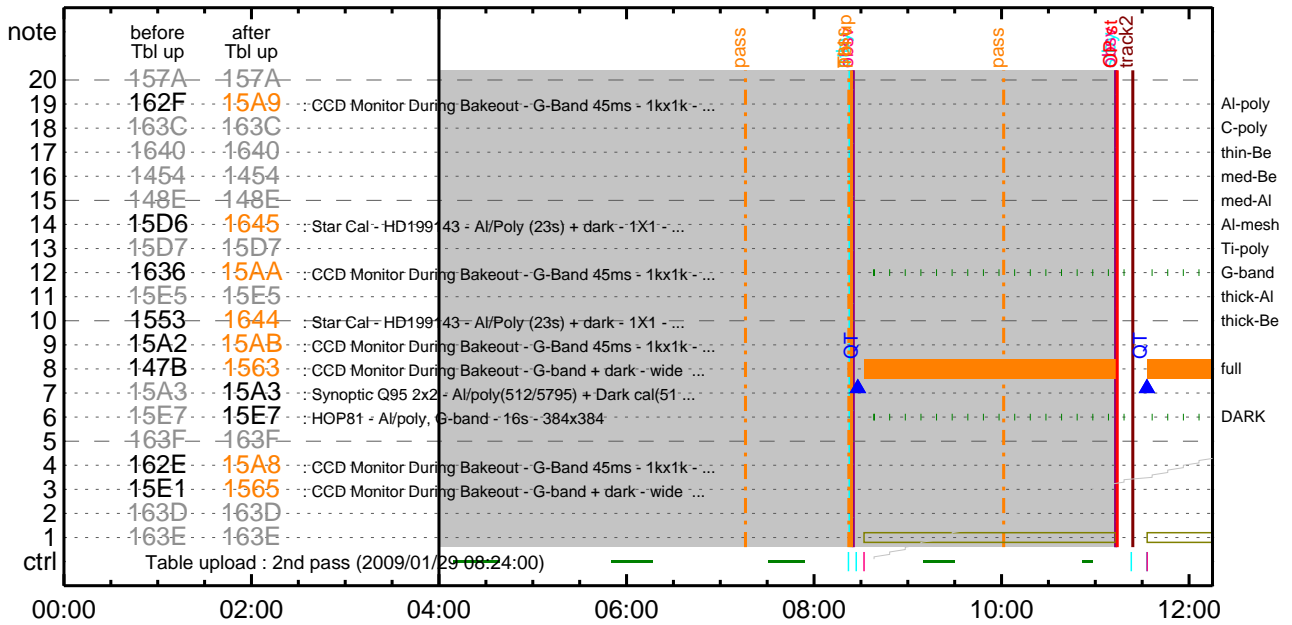
                                NOT USED

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                                Flare Detection
                                * * * * *

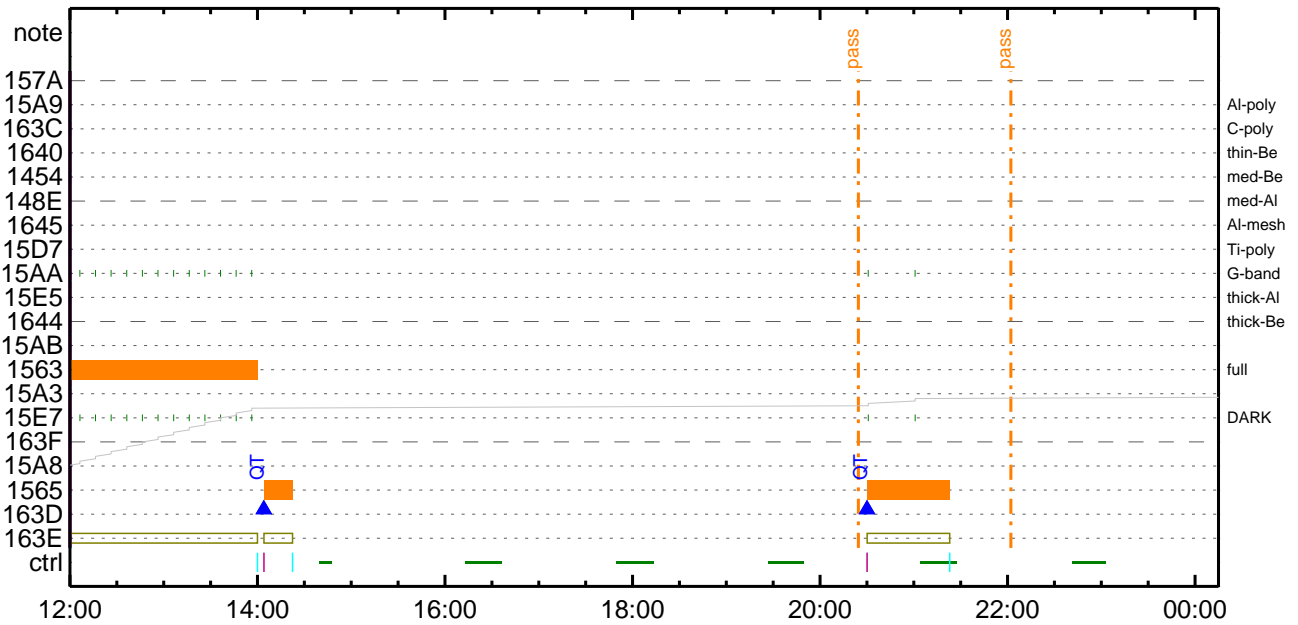
                                NOT USED

```

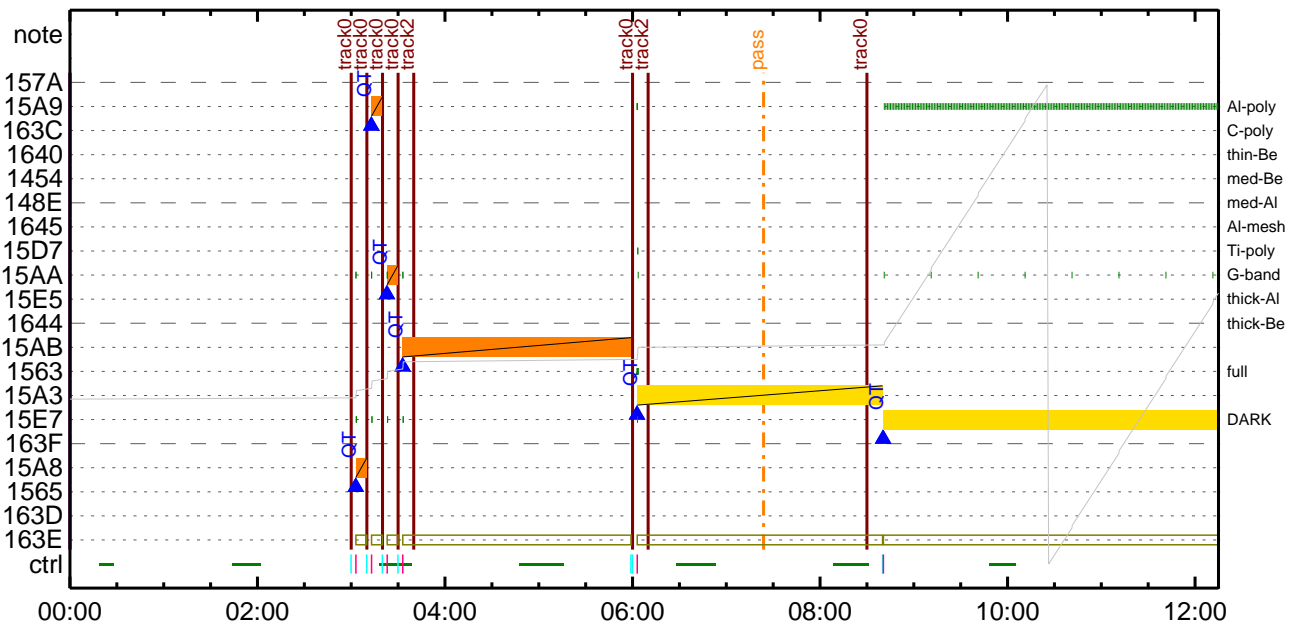
CMDI #0376 2009/01/29



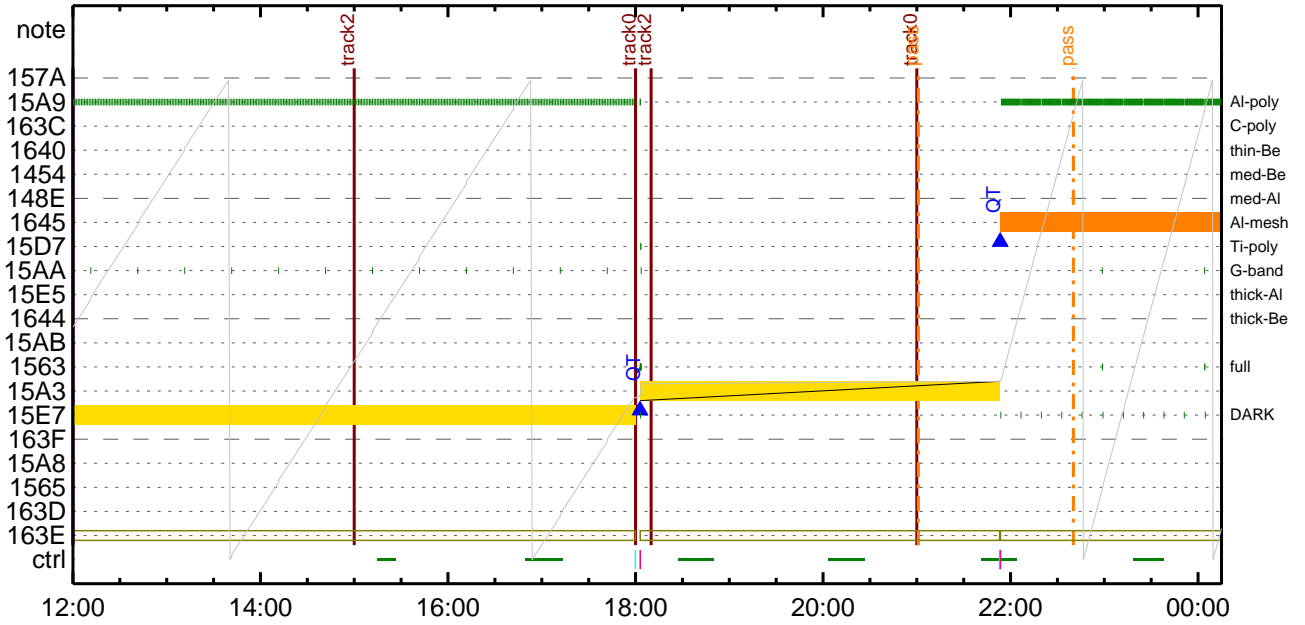
CMDI #0376 2009/01/29



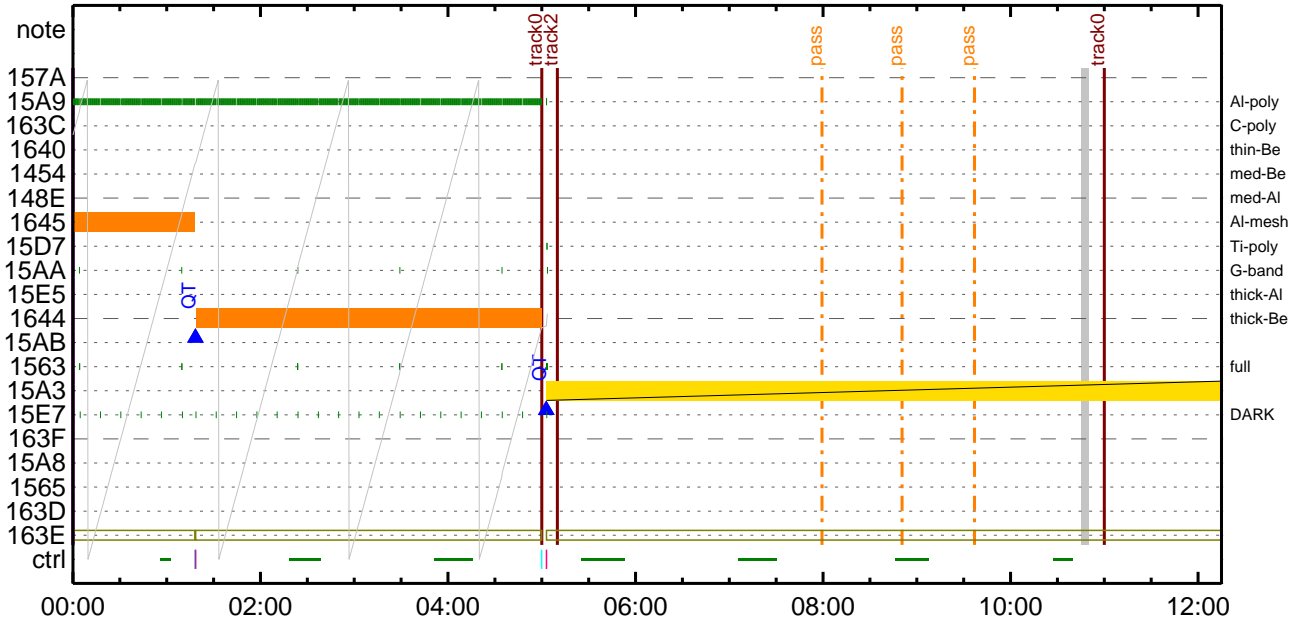
CMDI #0376 2009/01/30



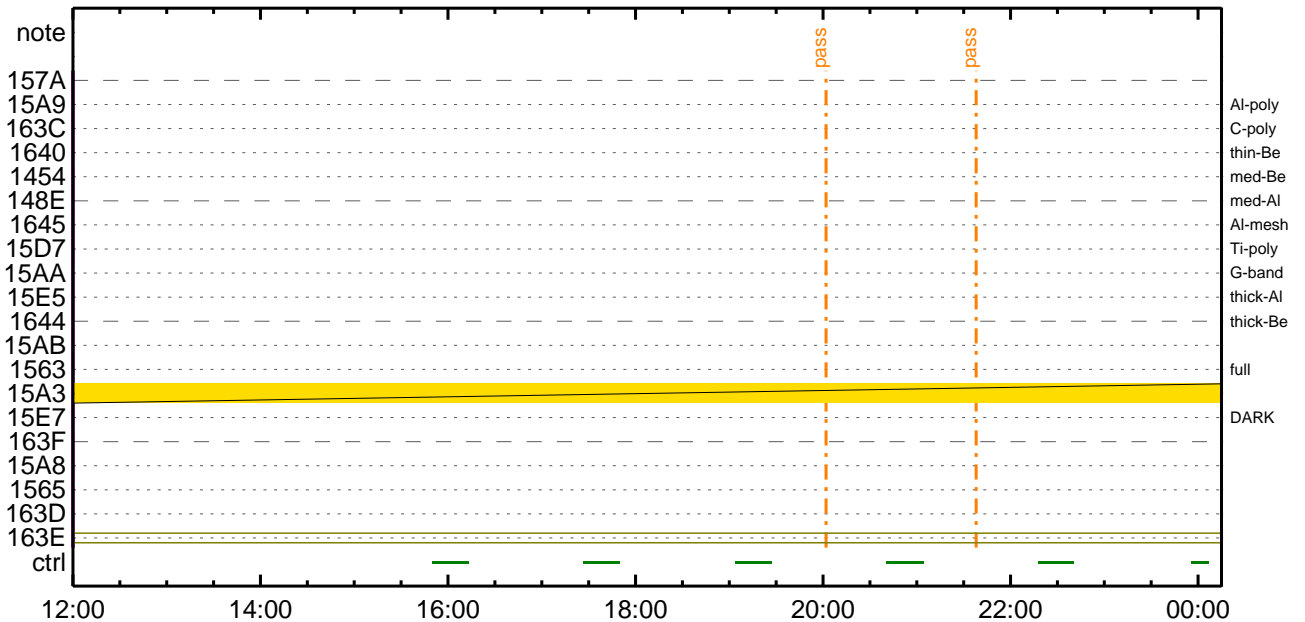
CMDI #0376 2009/01/30



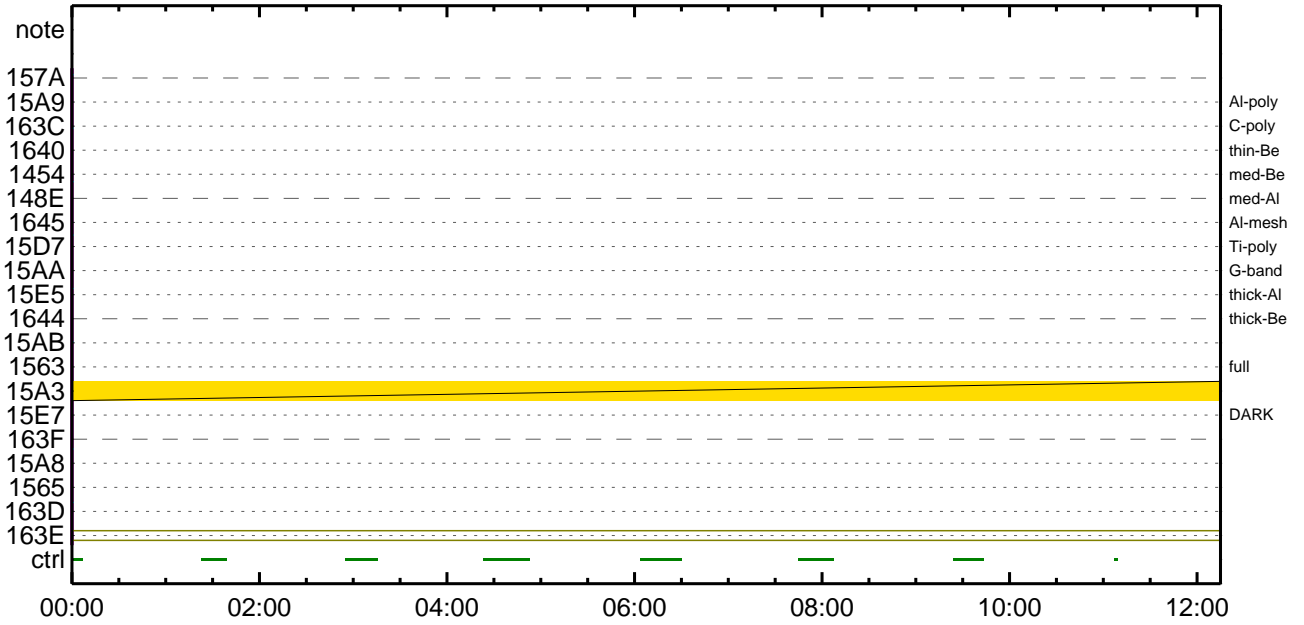
CMDI #0376 2009/01/31



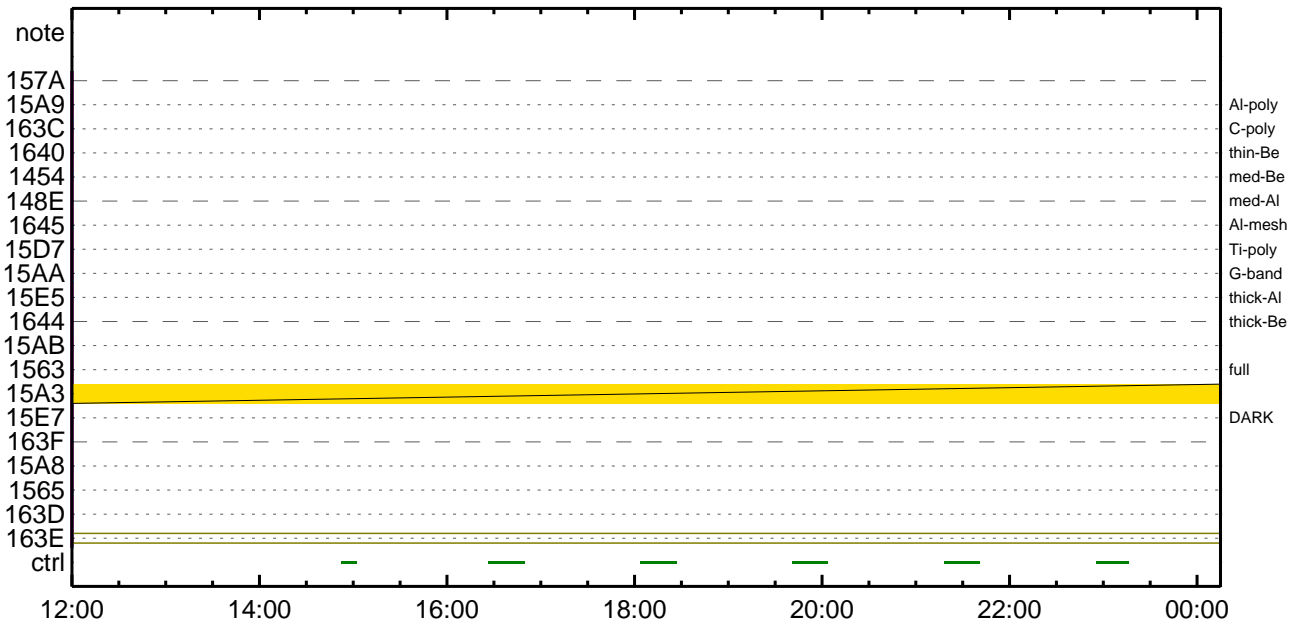
CMDI #0376 2009/01/31



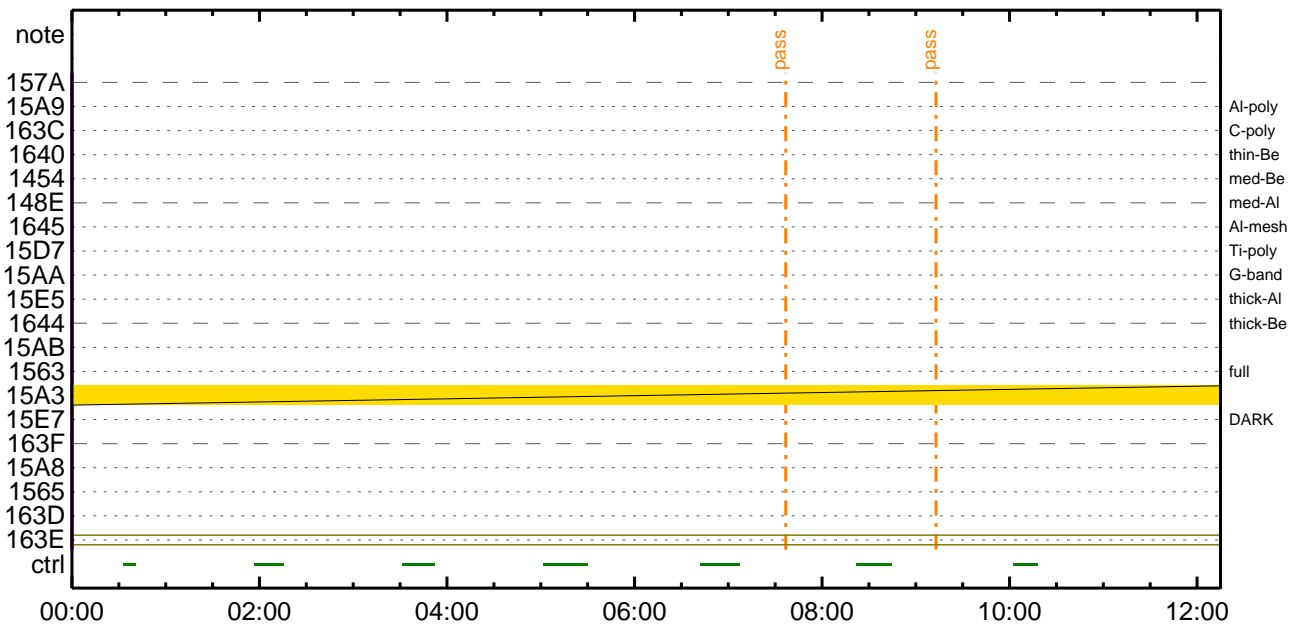
CMDI #0376 2009/02/01



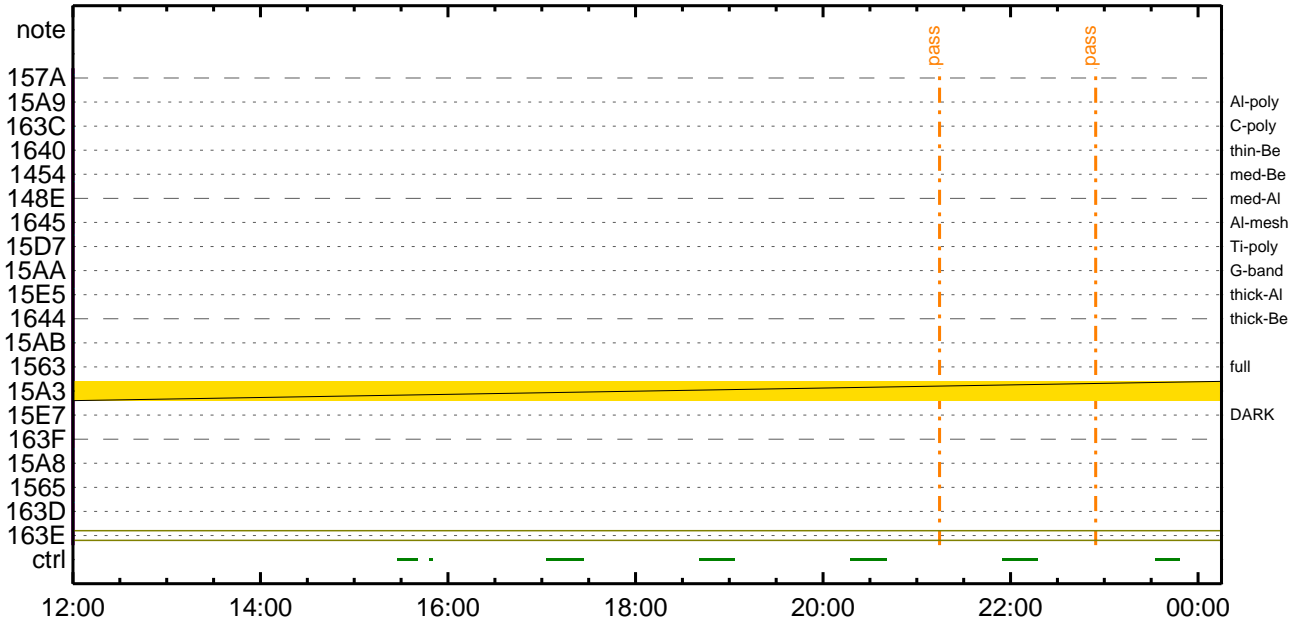
CMDI #0376 2009/02/01



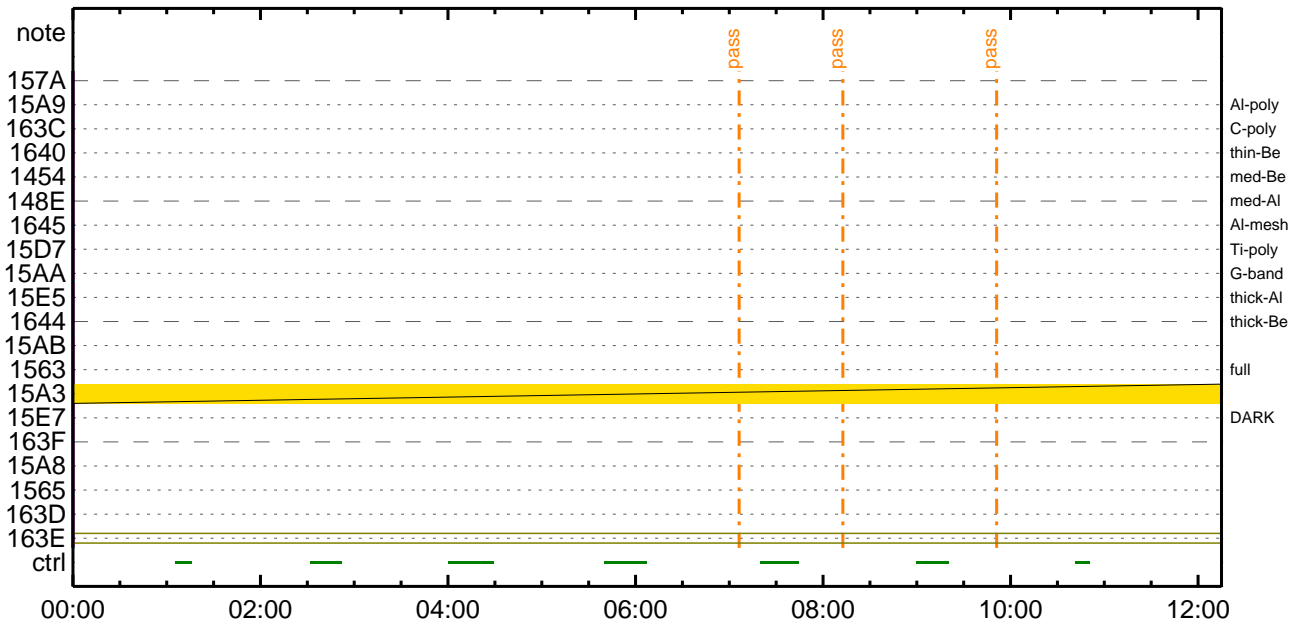
CMDI #0376 2009/02/02



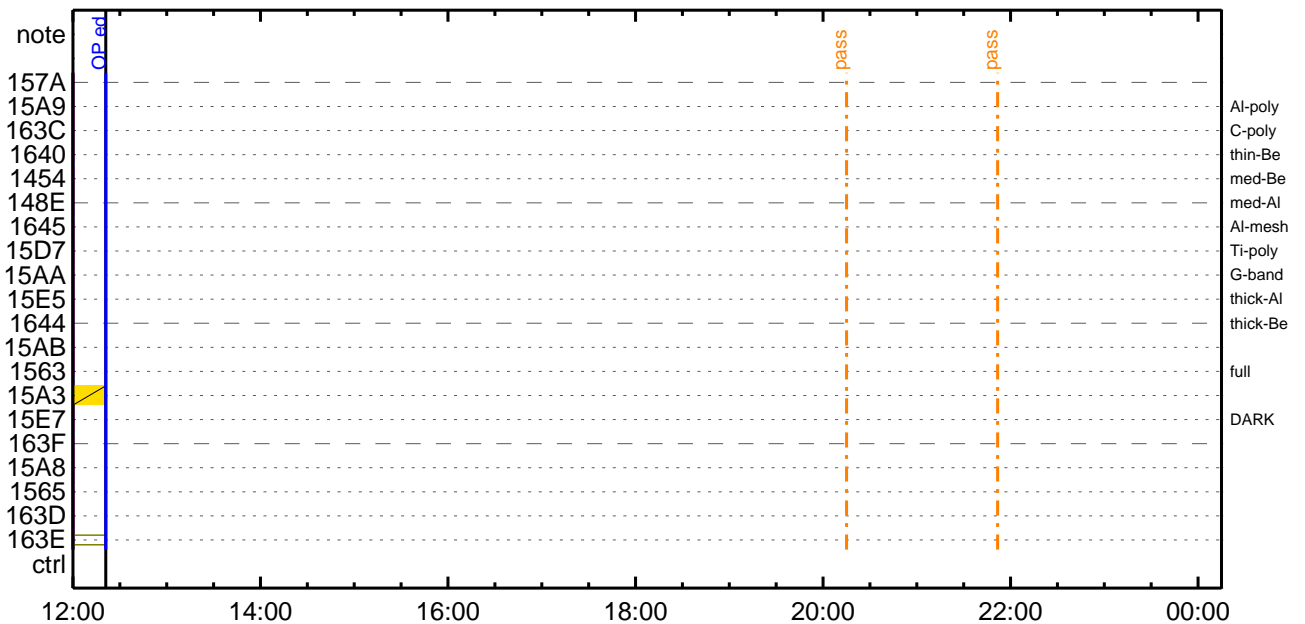
CMDI #0376 2009/02/02



CMDI #0376 2009/02/03



CMDI #0376 2009/02/03



(a) Spacecraft Operation Procedure (real-commands)

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main-382 2009-01-29 19:54:52 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÁY$;¼Y³YFÝÖYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èò¿òÁò•µ°Æ»Í×ÁÇòÍYçYÁY×Yí;¼YÉ;ÈÈè%µ•íÉ;ÈòÈ¼°ÇÒò•ò¿¼ì¹çòÍ;çÀ®, ùò¹òÈòòòÇÁ+¿®ò•òÈòòòòòÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGYí;¼YÉ;|YÁYöY×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGYí;¼YÉ;ä
0019 . S. OP op-382:OP
0020 ()
0021 . S. OG og-382:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPî°èYÁYöY×;ä
0025 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. YÁYöY×¼ªª î»òð³îç§
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGòî¼È¹ç•è²ïOKòð³îç§
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. YÁYöY×¼ªª î»òð³îç§
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGòî¼È¹ç•è²ïOKòð³îç§
0062 C.
0063 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. YÁYöY×¼ªª î»òð³îç§
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OPòî¼È¹ç•è²ïOKòð³îç§
0081 C.
0082 . C. ***** òÈ²¼òî¼Á´¼¼òòÈÈ-òòÁ+¿® (¼áµ-YÁYöY×¼¼çòðÁÓÁæòçªªò²ò¼¼ì¹çòçòâ) *****
0083 C. DHUYá;¼YÉ;ÈY¼;Yí;¼YÉ;Èòòíáò¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0089 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE |§ OPOG UPLOADò-Á+¿®NGòî¼ì¹ç;ç°È²¼òî¼TI-CMDÁ+¿®òî¼Á¹ÒòòòòòòÈ;f
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0096 C. 0p0z;çSET0EDUMP0İÆ±°iYÑY¹0Ç¹Ô0|0³0E;f
0097 C.
0098 . C. TIY³YFÿÖYÉ00dADİ¿(UT)
0099 +. TI 2009-01-29 11:09:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0102 C.
0103 +. TI 2009-01-29 11:09:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0106 C.
0107 +. TI 2009-01-29 11:09:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0110 C.
0111 +. TI 2009-01-29 11:13:59.5
0112 DC 01-B2 DHU_OP_START
0113 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0114 C.
0115 C. °È²¼0İÄê%îİÑ0İYÁY§YÁY-¹àİÜ
0116 C. çç[HK1_TI_CMD_ENA/DIS] EQ ENA
0117 C. çç[HK1_TI_CMD_NUM] EQ 4
0118 C. çç[HK1_NEXT_EXEC_PIM] EQ DHU
0119 C. çç[HK1_NEXT_EXEC_DC] EQ 0xB3
0120 C.
0121 . C. *****
0122 C. TIİİ°èYÁYÖY×
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. çç[HK1_DMP_TOP_ADRS_1] EQ 07
0129 C. çç[HK1_DMP_TOP_ADRS_0] EQ 2B
0130 C. çç[HK1_DMP_BLOCK_NUM] EQ 3
0131 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0132 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC (07 0b f8)
0135 C. çç[HK1_PKT_FORM_NO] EQ 7
0136 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0137 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0138 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0139 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0140 C.
0141 . C. YÁYÖY×½¹İ»0d³İÇ§
0142 C. çç[HK1_DMP_CHK_FLG] EQ NON
0143 C.
0144 . C. RAM ID=TI_TBL0İÈ¹Ç•è²İOK0d³İÇ§
0145 C.
0146 . C. DHUÿâ;¼YÉ;È¼Y¼, Yì;¼YÈ;È0dİá0¹
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC (02 0a f8)
0149 C. çç[HK1_PKT_FORM_NO] EQ 2
0150 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0151 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0152 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0153 C.
0154 C. *****
0155 C. SOT TI command set
0156 C. *****
0157 C. Execute, after the success of OP upload.
0158 +. TI 2009-01-29 11:13:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC (41)
0161 C. -----
0162 C. HK1_TI_CMD_NUM = 1 CNTUP []
0163 C. -----
0164 C. ***** SOT END *****
0165 . C. Stop EIS observation and temporarily disable EIS mode changes
0166 C.
0167 C.
0168 C. ***** Start EIS operation (TI set) *****
0169 C. Execute, after the success of OP upload.
0170 C. Set EIS TI-commands
0171 +. TI 2009-01-29 11:13:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC (21 02)
0174 +. TI 2009-01-29 11:13:40.0
0175 DC 07-FC EIS_MODE_CHG_DIS
0176 BC (22)
0177 . C. [] [HK1_TI_CMD_NUM] EQ 2 COUNTUP
0178 C. ***** End EIS operation (TI set) *****
0179 C.
0180 C.
0181 C.
0182 C. ***** XRT START *****
0183 C. Execute, after the success of OP upload.
0184 +. TI 2009-01-29 11:13:00.0
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 ´üÄİ0İ»ö¼Y0ÈÄ0¹0èDCBC•×²è *****
0192 C. (¼â°İYÖYÁYÉYÿYáYçYè0È¼0¼¼Ä»Ü0¹0é)
0193 . S. DC-BC dcbc-402:DCBC


```
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.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-383 2009-01-29 19:54:52 263 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYÿYÁY^-¼Á»Û;ã
0005 C.
0006 C. YÀYÿ;¼Y³YÿYóYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ëò¿òÀò•µ°®»Í×ÁÇòíYÇYÁY×Yí;¼YÿÉ;ËÈÈ%µ•ííË;ÈòÈ¼°ÇÒò•ò¿¼í¹Çòí;çÀ®, ùò¹òÈòÈòÇÁ+¿®ò•òÈòòòòòÈ; í
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ+¿µ;ON
0016 C. *****
0017 C. ç“ °ÆÀ, Í×ÈYòáLOSòÈòÇòí»P´Ôòò¹íí, ò•; çÈÔÍ×òÈXÁÓONòí¹ÔòÈòíòÈòòòòòÈ; í
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. XYDYóYÉYíYÁY^-¾ÔÁòò-òÁÁêò•ò¿òé; ç°È²¼òí°ÆÀ, ¼ê%Çòò¼Á¹Ôò¹òé; í
0030 C.
0031 . C. *****
0032 C. DR PT1 Áí¼í°ÆÀ,
0033 C. *****
0034 C. ç“ RESTART;ÈPT1;Èò•ò¿òò¼í¹Çòí; ç°È²¼òí¼Á¹Ôòòò°; çDCBC-150òò¿¿Èòòà; í
0035 C.
0036 . C. ;ãPT1°ÆÀ, ³«»í;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. ;ãYçYóYÿYÿYÁYÁYÁ;ÈÁ•Á°²óÈò;È, áòí°ÆÀ, °Æ³«;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°ÆÀ, ò-¾«Æ°Áá»Èòò¿ò¿;á; ç°È²¼òò¼Á¹Ôò¹òé; í
0055 C. YçYóYÿYÿYÁYÁYÁ;ÈÁ•Á°²óÈòò-¾áòò¼í¹Çòí°óí»ò¹òÈòÈòÇÁÔòÁ; í
0056 C.
0057 . C. *****
0058 C. DR PT2 Áí¼í°ÆÀ,
0059 C. *****
0060 C. ç“ RESTART;ÈPT2;Èò•ò¿òò¼í¹Çòí; ç°È²¼òí¼Á¹Ôòòò°; çDCBC-151òò¿¿Èòòà; í
0061 C.
0062 . C. ;ãPT2°ÆÀ, ³«»í;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. ;ãYçYóYÿYÿYÁYÁYÁ;ÈÁ•Á°²óÈò;È, áòí°ÆÀ, °Æ³«;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°ÆÀ, Áá»ÿ;çXÁ+¿µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°ÆÀ, Áá»ÿ;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. ***** 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.
0130 C. ***** XRT START *****
0131 C.
0132 +. DC 07-F0 MDP_XRT_CTRL_MANU
0133 BC (c1)
0134 + DC 07-F0 MDP_XRT_MODE_STBY
0135 BC (c3)
0136 . C. ----- Success Verify ? OK / NG____
0137 C.
0138 C. XRT Obs. Table Upload
0139 . S. RAM ram-291:MDP_OBS_X
0140 ( )
0141 C.
0142 +. DC 07-F0 MDP_DUMP_XRTTBL
0143 BC (84 07 00 00 00 3a d4)
0144 . C. ----- Comparison Check ? OK / ERR ____
0145 C.
0146 C.
0147 +. DC 07-F0 MDP_XRT_ROI_SET
0148 BC (cd 01 b1 b1 04 04)
0149 + DC 07-F0 MDP_XRT_ROI_SET
0150 BC (cd 02 b1 b1 08 08)
0151 + DC 07-F0 MDP_XRT_ROI_SET
0152 BC (cd 03 b1 b1 08 08)
0153 + DC 07-F0 MDP_XRT_ROI_SET
0154 BC (cd 04 b1 b1 06 06)
0155 + DC 07-F0 MDP_XRT_ROI_SET
0156 BC (cd 06 80 80 20 04)
0157 + DC 07-F0 MDP_XRT_ROI_SET
0158 BC (cd 07 c0 c0 10 10)
0159 + DC 07-F0 MDP_XRT_ROI_SET
0160 BC (cd 08 40 c0 10 10)
0161 + DC 07-F0 MDP_XRT_ROI_SET
0162 BC (cd 09 40 40 10 10)
0163 + DC 07-F0 MDP_XRT_ROI_SET
0164 BC (cd 0a c0 40 10 10)
0165 + DC 07-F0 MDP_XRT_ROI_SET
0166 BC (cd 0b 80 80 20 20)
0167 + DC 07-F0 MDP_XRT_ROI_SET
0168 BC (cd 0c 85 83 06 06)
0169 + DC 07-F0 MDP_XRT_ROI_SET
0170 BC (cd 0d 22 be 08 04)
0171 + DC 07-F0 MDP_XRT_ROI_SET
0172 BC (cd 0e 62 ae 08 04)
0173 + DC 07-F0 MDP_XRT_ROI_SET
0174 BC (cd 0f 80 80 06 06)
0175 + DC 07-F0 MDP_XRT_ROI_SET
0176 BC (cd 10 80 80 04 04)
0177 . C. ----- Success Verify ? OK / NG ____
0178 C.
0179 C.
0180 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0181 C.
0182 +. DC 07-F0 MDP_XRT_MODE_OBSV
0183 BC (c2)
0184 +. TI 2009-01-29 11:13:02.0
0185 DC 07-F0 MDP_XRT_MODE_OBSV
0186 BC (c2)
0187 . C. ----- Success Verify ? OK / NG ____
0188 C.
0189 C. ***** XRT END *****
0190 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0191 +. DC 07-FC EIS_MODE_MANU
0192 BC (21 02)
0193 . C. Verify EIS in MANUAL mode

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*** OP Sequence for XRT ***

2009/01/29	11:23:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/29	11:24:00.0	AOCS_OrE-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	02 00 00 00 00				
2009/01/29	11:33:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/29	11:33:02.0	XRT_QT_PROG_SET_412_OG [0x19c]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 08				
2009/01/29	11:33:04.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/29	11:33:06.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/29	11:33:08.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/29	11:33:10.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/29	14:00:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/29	14:04:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/29	14:04:02.0	XRT_QT_PROG_SET_443_OG [0x1bb]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03				
2009/01/29	14:04:04.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/29	14:04:06.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/29	14:04:08.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/29	14:04:10.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/29	14:22:25.5	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/29	20:30:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/29	20:30:02.0	XRT_QT_PROG_SET_443_OG [0x1bb]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 03				
2009/01/29	20:30:04.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/29	20:30:06.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/29	20:30:08.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/29	20:30:10.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/29	21:23:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/29	21:23:02.0	XRT_TCIB_XRT_S_HTR_A_DIS_410_OG [0x19a]							
		TCIB_XRT_S_HTR_A_DIS	0	04-C0					
2009/01/30	02:59:54.0	XRT_CTRL_MANU_448_OG [0x1c0]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/30	03:00:00.0	AOCS_OrE-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 2e f9 2e f9				
2009/01/30	03:02:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/01/30	03:02:52.0	XRT_QT_PROG_SET_413_OG [0x19d]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 04				
2009/01/30	03:02:54.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/30	03:02:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/30	03:02:58.0	XRT_ARS_DIS_417_OG [0x1a1]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/30	03:03:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/30	03:09:54.0	XRT_CTRL_MANU_448_OG [0x1c0]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/30	03:10:00.0	AOCS_OrE-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 2e f9 d1 07				
2009/01/30	03:12:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/01/30	03:12:52.0	XRT_QT_PROG_SET_406_OG [0x196]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 13				
2009/01/30	03:12:54.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/30	03:12:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/30	03:12:58.0	XRT_ARS_DIS_417_OG [0x1a1]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/30	03:13:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/30	03:19:54.0	XRT_CTRL_MANU_448_OG [0x1c0]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/30	03:20:00.0	AOCS_OrE-point_Start_4_OG [0x09a]							
		AOCU_NM	5	02-76	00 d1 07 d1 07				
2009/01/30	03:22:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/01/30	03:22:52.0	XRT_QT_PROG_SET_438_OG [0x1b6]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0c				
2009/01/30	03:22:54.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/30	03:22:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							

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2009/01/30	03:22:58.0	XRT_ARS_DIS_417_OG [0x1a1]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
			MDP_XRT_ARS_DIS	1	07-F0	d5	
2009/01/30	03:23:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/01/30	03:29:54.0	XRT_CTRL_MANU_448_OG [0x1c0]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/01/30	03:30:00.0	AOCS_Ore-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	00 d1 07 2e f9	
2009/01/30	03:32:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00	
2009/01/30	03:32:52.0	XRT_QT_PROG_SET_407_OG [0x197]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 09	
2009/01/30	03:32:54.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9	
2009/01/30	03:32:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2009/01/30	03:32:58.0	XRT_ARS_DIS_417_OG [0x1a1]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2009/01/30	03:33:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/01/30	03:40:00.0	AOCS_Ore-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	02 00 00 00 00	
2009/01/30	05:59:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/01/30	05:59:54.0	XRT_CTRL_MANU_429_OG [0x1ad]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/01/30	06:00:00.0	AOCS_Ore-point_Start_6_OG [0x09c]	AOCU_NM	5	02-76	00 00 00 00 00	
2009/01/30	06:02:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00	
2009/01/30	06:02:52.0	XRT_QT_PROG_SET_408_OG [0x198]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 07	
2009/01/30	06:02:54.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9	
2009/01/30	06:02:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2009/01/30	06:02:58.0	XRT_ARS_DIS_417_OG [0x1a1]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2009/01/30	06:03:00.5	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/01/30	06:10:00.0	AOCS_Ore-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	02 00 00 00 00	
2009/01/30	08:30:00.0	AOCS_Ore-point_Start_7_OG [0x09d]	AOCU_NM	5	02-76	00 ac 73 00 00	
2009/01/30	08:40:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/01/30	08:40:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00	
2009/01/30	08:40:22.0	XRT_QT_PROG_SET_431_OG [0x1af]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 06	
2009/01/30	08:40:24.0	XRT_AEC_RESET_415_OG [0x19f]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2009/01/30	08:40:26.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2009/01/30	08:40:28.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_FLD_DIS	1	07-F0	d9	
2009/01/30	08:40:30.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2009/01/30	08:40:32.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/01/30	15:00:00.0	AOCS_Ore-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	02 00 00 00 00	
2009/01/30	17:59:54.0	XRT_CTRL_MANU_429_OG [0x1ad]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/01/30	18:00:00.0	AOCS_Ore-point_Start_6_OG [0x09c]	AOCU_NM	5	02-76	00 00 00 00 00	
2009/01/30	18:02:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00	
2009/01/30	18:02:52.0	XRT_QT_PROG_SET_408_OG [0x198]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 07	
2009/01/30	18:02:54.0	XRT_FLD_DIS_419_OG [0x1a3]	MDP_XRT_FLD_DIS	1	07-F0	d9	
2009/01/30	18:02:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2009/01/30	18:02:58.0	XRT_ARS_DIS_417_OG [0x1a1]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2009/01/30	18:03:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2009/01/30	18:10:00.0	AOCS_Ore-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	02 00 00 00 00	
2009/01/30	21:00:00.0	AOCS_Ore-point_Start_8_OG [0x09e]	AOCU_NM	5	02-76	00 c3 65 3c 9b	
2009/01/30	21:53:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2009/01/30	21:53:02.0	XRT_FOCUS_POSITION_433_OG [0x1b1]	XRT_FOCUS_POSITION	4	07-F8	22 ff af 00	
2009/01/30	21:53:22.0	XRT_QT_PROG_SET_426_OG [0x1aa]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0e	
2009/01/30	21:53:24.0	XRT_AEC_RESET_415_OG [0x19f]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2009/01/30	21:53:26.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5	

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2009/01/30	21:53:28.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/30	21:53:30.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/30	21:53:32.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/31	01:18:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/31	01:18:02.0	XRT_FOCUS_POSITION_433_OG [0x1b1]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff af 00				
2009/01/31	01:18:22.0	XRT_QT_PROG_SET_411_OG [0x19b]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0a				
2009/01/31	01:18:24.0	XRT_AEC_RESET_415_OG [0x19f]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2009/01/31	01:18:26.0	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/31	01:18:28.0	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/31	01:18:30.0	XRT_FLRCTRL_DIS_416_OG [0x1a0]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/31	01:18:32.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/31	04:59:54.0	XRT_CTRL_MANU_429_OG [0x1ad]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/01/31	05:00:00.0	AOCS_ORe-point_Start_6_OG [0x09c]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2009/01/31	05:02:32.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/01/31	05:02:52.0	XRT_QT_PROG_SET_408_OG [0x198]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 07				
2009/01/31	05:02:54.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/01/31	05:02:56.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/01/31	05:02:58.0	XRT_ARS_DIS_417_OG [0x1a1]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/01/31	05:03:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/01/31	05:10:00.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	02 00 00 00 00				
2009/01/31	11:00:00.0	AOCS_ORe-point_Start_6_OG [0x09c]							
		AOCU_NM	5	02-76	00 00 00 00 00				