

XRT Timeline to be uploaded on 2009/05/07

Period: 2009/05/07 10:30:00 - 2009/05/12 10:20:00

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Normal mode

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XOB #1691: Coronal cavity (6 pairs +Gband)-DPCM 2x2-768X768-FOV offset for SW(1120,1048)-longer exposures													
Term	Pointing (x, y)					Comment							
05/07 10:43:00 - 05/07 11:59:54	Fixed (740.0, 565.0)					# OP start + 10min, HOP 73, with SST, filament obs.							
PROG= 18 Inf.-time(s)													
└─ Subr= 1 12-time(s) 300.0sec													
└─ Seqn= 94 1-time(s) 4.0sec													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	8.00s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
└─ Seqn= 56 1-time(s) 4.0sec													
	Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
└─ Seqn= 9 1-time(s) 4.0sec													
	C-poly/Open	med-Be/Open	close	Safe	Norm	16.0s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
└─ Seqn= 34 1-time(s) 2.0sec													
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	16.0s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
└─ Seqn= 43 1-time(s) 4.0sec													
	Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	22.6s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
└─ Seqn= 4 1-time(s) 2.0sec													
	thin-Be/Open	med-Be/Open	close	Safe	Norm	64.0s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
└─ Subr= 2 1-time(s) 2.0sec													
└─ Seqn= 53 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													

XOB #169B: CME watch - C/poly - 384x384 - Be/thin - 2x2 - 1024x1024 - AEC2													
Term	Pointing (x, y)					Comment							
05/07 12:03:00 - 05/07 14:39:00	Fixed (-850.0, 370.0)					* XRT CME Watch, AR at E limb.							
05/09 01:03:00 - 05/09 05:48:30	Fixed (-850.0, 370.0)					* Obs AR at E limb.							
PROG= 11 Inf.-time(s)													
└─ Subr= 1 1-time(s) 2.0sec													
└─ Seqn= 49 1-time(s) 30.0sec													
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	5.66s	Obs	2x2	1024x1024 (1024, 1024)	DPCM	2	0	2.0sec
└─ Seqn= 51 4-time(s) 30.0sec													
	C-poly/Open	C-poly/Open	close	Safe	Norm	4.00s	Obs	1x1	384x384 (1024, 1024)	DPCM	2	0	2.0sec
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval													

XOB #166D: Synoptic Q95 2x2 - Al/poly(181/2048) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(256/4096) + G-band(16)													
Term	Pointing (x, y)					Comment							
05/07 17:49:00 - 05/07 18:36:00	Fixed (0.0, 0.0)					synoptic, shifted -14.0 min							
05/08 18:09:30 - 05/08 18:28:00	Fixed (0.0, 0.0)					synoptic, shifted 6.5 min							
PROG= 20 1-time(s)													
└─ Subr= 1 1-time(s) 12.0sec													
└─ Seqn= 14 1-time(s) 4.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 7 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
└─ Seqn= 21 1-time(s) 4.0sec													
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
└─ Seqn= 92 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval													

XOB #169A: Al/poly - AEC -2min-cad - FOV512													
Term	Pointing (x, y)					Comment							
05/07 18:39:06 - 05/07 19:34:30	Fixed (-945.0, 0.0)					# EIS SLA intercalibration.							
05/07 20:13:00 - 05/07 20:13:00	Fixed (0.0, -920.0)					* EIS test of jet program at S limb.							
PROG= 03 Inf.-time(s)													
└─ Subr= 1 1-time(s) 120.0sec													
└─ Seqn= 16 1-time(s) 2.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	4.00s	Obs	1x1	512x512 (1024, 1024)	DPCM	2	0	2.0sec
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval													

XOB #1694: Al/poly(384x384) Q95-AEC4(8192ms)-1min cadence												
Term	Pointing (x, y)					Comment						
05/07 20:16:06 - 05/08 03:40:00	Fixed (0.0, -920.0)					* EIS test of jet program at S limb.						
PROG= 07 Inf.-time(s)												
└─ Subr= 1 1-time(s) 60.0sec												
└─ Seqn= 57 1-time(s) 4.0sec												

Al-poly/Open	Al-poly/Open	close	Safe	Norm	8.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	4	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #166C: Synoptic Q95 2x2 - Al/mesh(128/2048) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(256/4096) + G-band(16)

Term	Pointing (x, y)	Comment
05/08 06:03:00 - 05/08 08:00:00	Fixed (0.0, 0.0)	synoptic
05/09 06:30:00 - 05/09 06:36:54	Fixed (0.0, 0.0)	synoptic, shifted 27.0 min

PROG= 04 1-time(s)

Subr= 1	1-time(s)	12.0sec										
Seqn= 93	1-time(s)	4.0sec										
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 7	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
Seqn= 21	1-time(s)	4.0sec										
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 92	1-time(s)	2.0sec										
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1699: Coronal cavity (6 pairs +Gband)-DPCM 2x2-768X768-FOV-no-offset-longer exposures

Term	Pointing (x, y)	Comment
05/08 08:03:06 - 05/08 11:59:00	Track (448.4, -655.8) @ 05/08 06:10:00	# HOP 73 (officially 8 - 12 UT), with SST, track filament.
05/09 06:40:00 - 05/09 10:51:00	Track (539.3, -662.3) @ 05/09 06:37:00	# HOP 73 (officially 8 - 12 UT), track filament along with SST.

PROG= 08 Inf.-time(s)

Subr= 1	12-time(s)	300.0sec										
Seqn= 94	1-time(s)	4.0sec										
Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	8.00s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 56	1-time(s)	4.0sec										
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	11.3s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 9	1-time(s)	4.0sec										
C-poly/Open	med-Be/Open	close	Safe	Norm	16.0s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 34	1-time(s)	2.0sec										
Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	16.0s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 43	1-time(s)	4.0sec										
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	22.6s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 4	1-time(s)	2.0sec										
thin-Be/Open	med-Be/Open	close	Safe	Norm	64.0s	Obs	2x2	768x768 (1024, 1024)	DPCM	0	0	2.0sec
Subr= 2	1-time(s)	2.0sec										
Seqn= 53	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	

XOB #167C: G-Band Alignment Q90 2x2 5 minute cadence Full FOV

Term	Pointing (x, y)	Comment
05/08 18:31:30 - 05/08 20:28:00	Fixed (0.0, 945.0)	# Co-alignment offset N.

PROG= 17 1-time(s)

Subr= 1	1-time(s)	360.0sec										
Seqn= 54	21-time(s)	300.0sec										
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	

XOB #1696: G-Band Alignment Q90 2x2 8 minute cadence Full FOV-2

Term	Pointing (x, y)	Comment
05/08 20:31:30 - 05/08 23:18:00	Fixed (-945.0, 0.0)	* Co-alignment offset E.

PROG= 13 1-time(s)

Subr= 1	1-time(s)	360.0sec										
Seqn= 54	21-time(s)	480.0sec										
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	

XOB #15B9: twilight monitor

Term	Pointing (x, y)	Comment
05/08 23:21:06 - 05/09 00:04:00	Fixed (0.0, 0.0)	* SOT flat fields at Sun center.

PROG= 09 Inf.-time(s)

Subr= 1	1-time(s)	30.0sec										
Seqn= 60	1-time(s)	2.0sec										
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	16.0s	Obs	1x1	256x256 (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

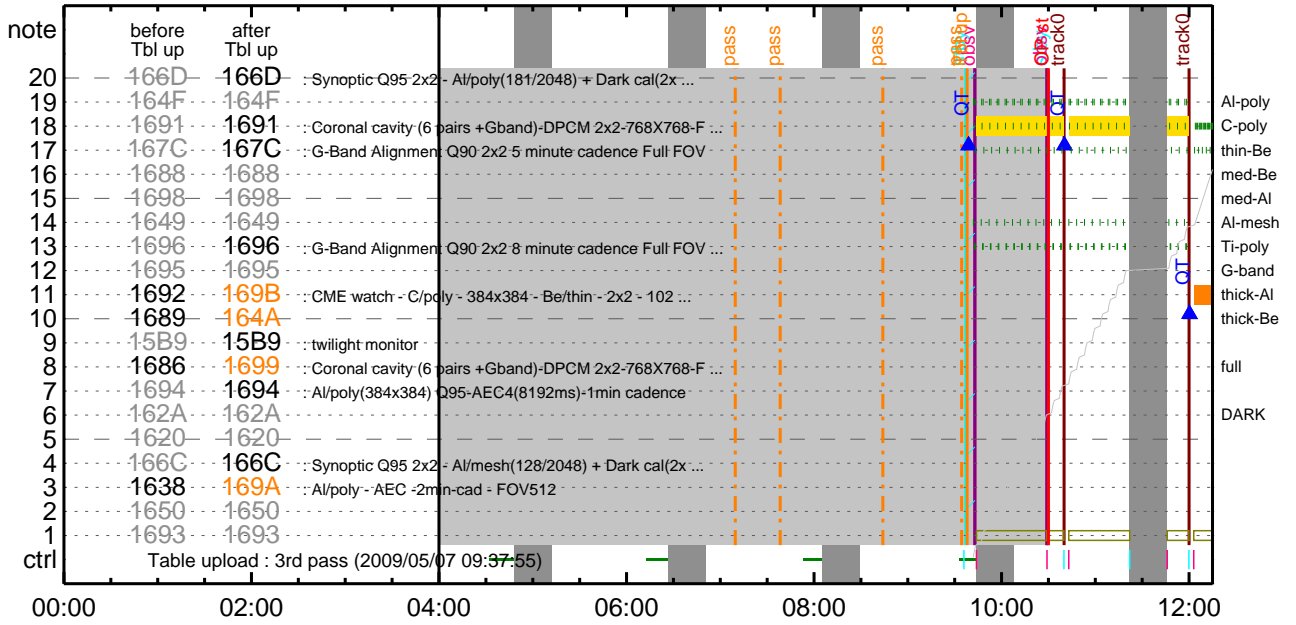
* * * * *

Flare Detection

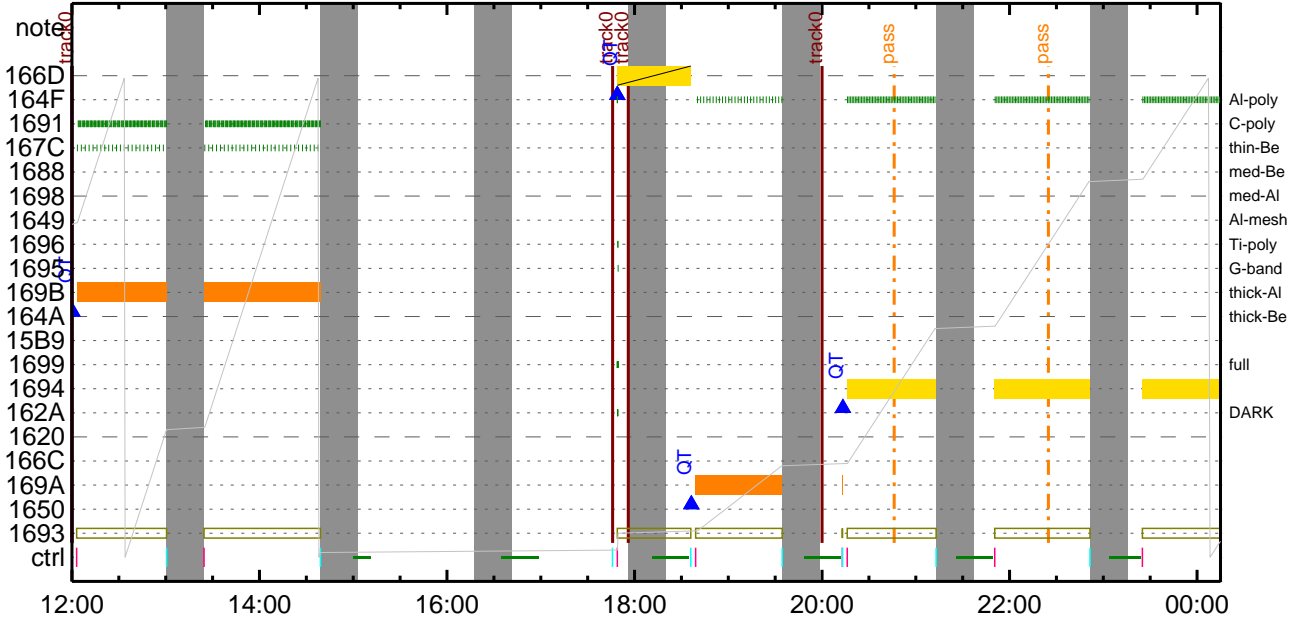
* * * * *

NOT USED

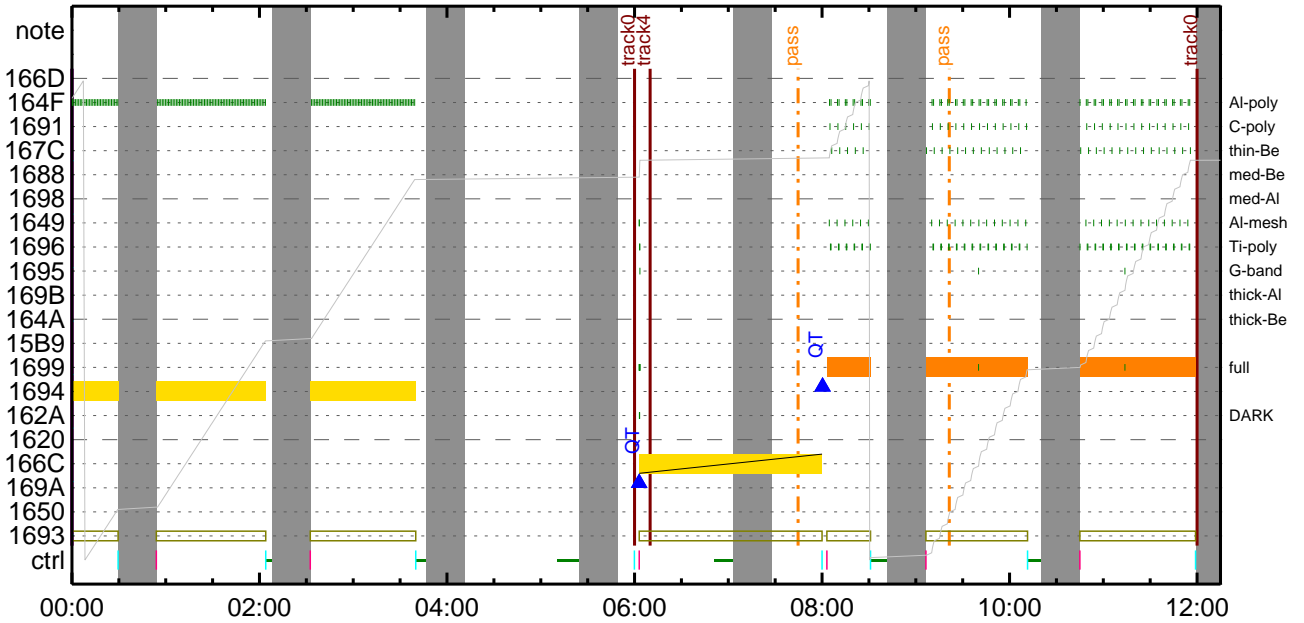
CMDI #0548 2009/05/07



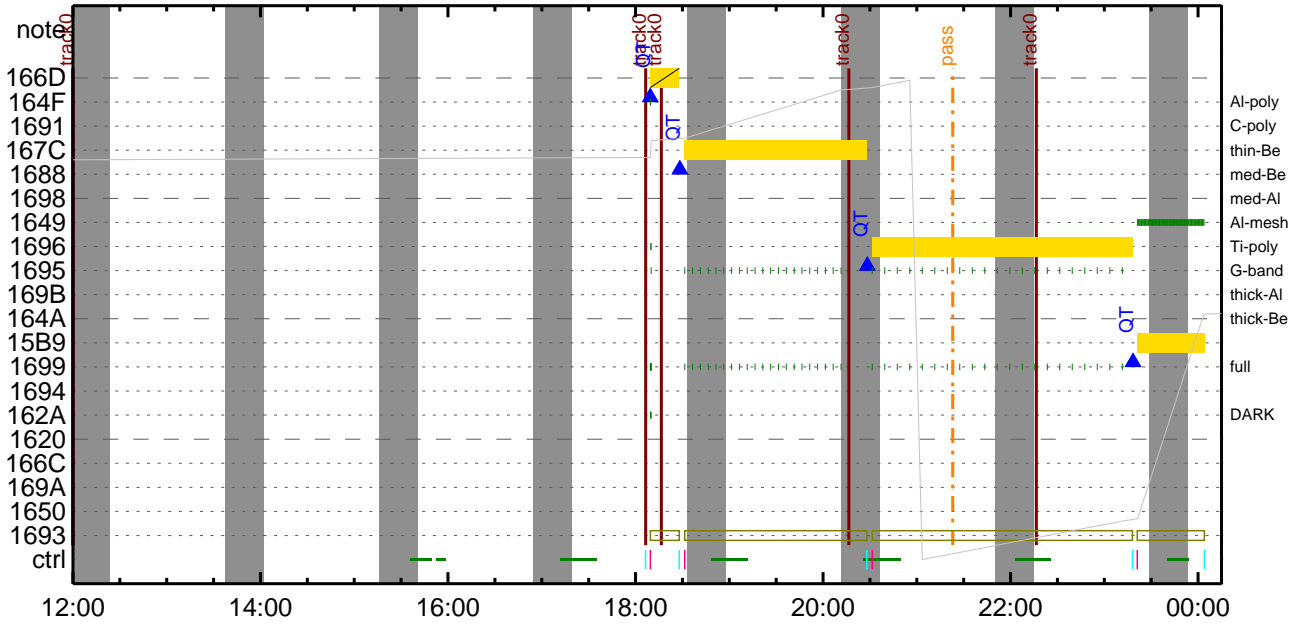
CMDI #0548 2009/05/07



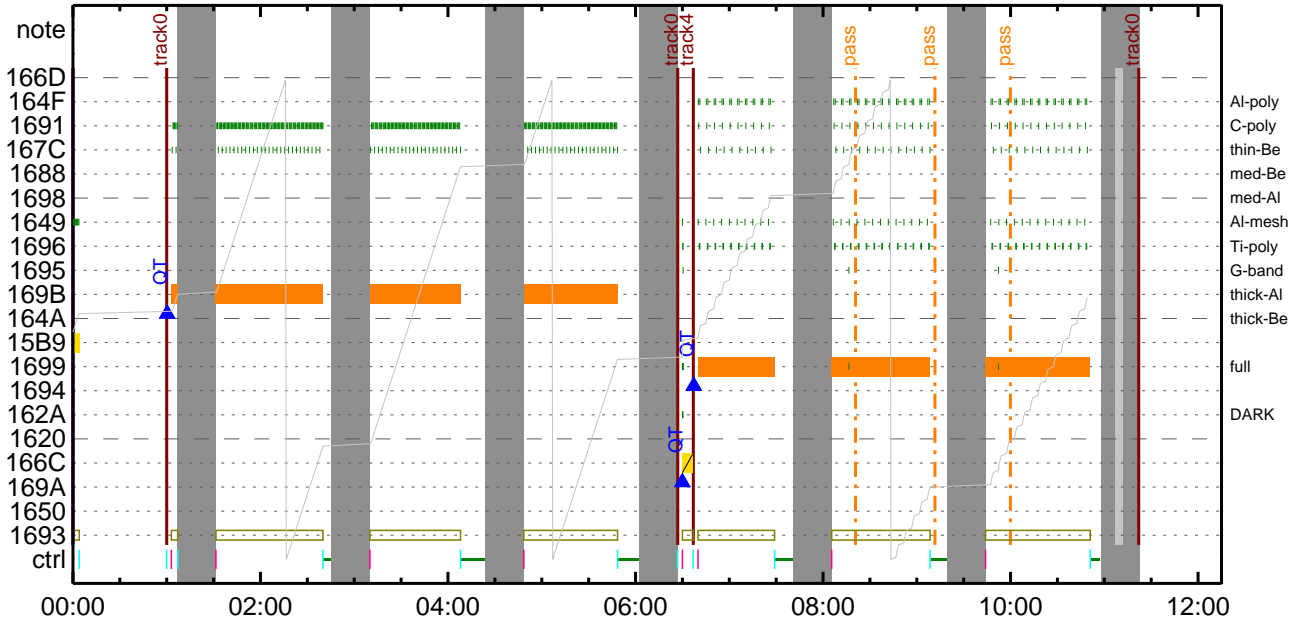
CMDI #0548 2009/05/08



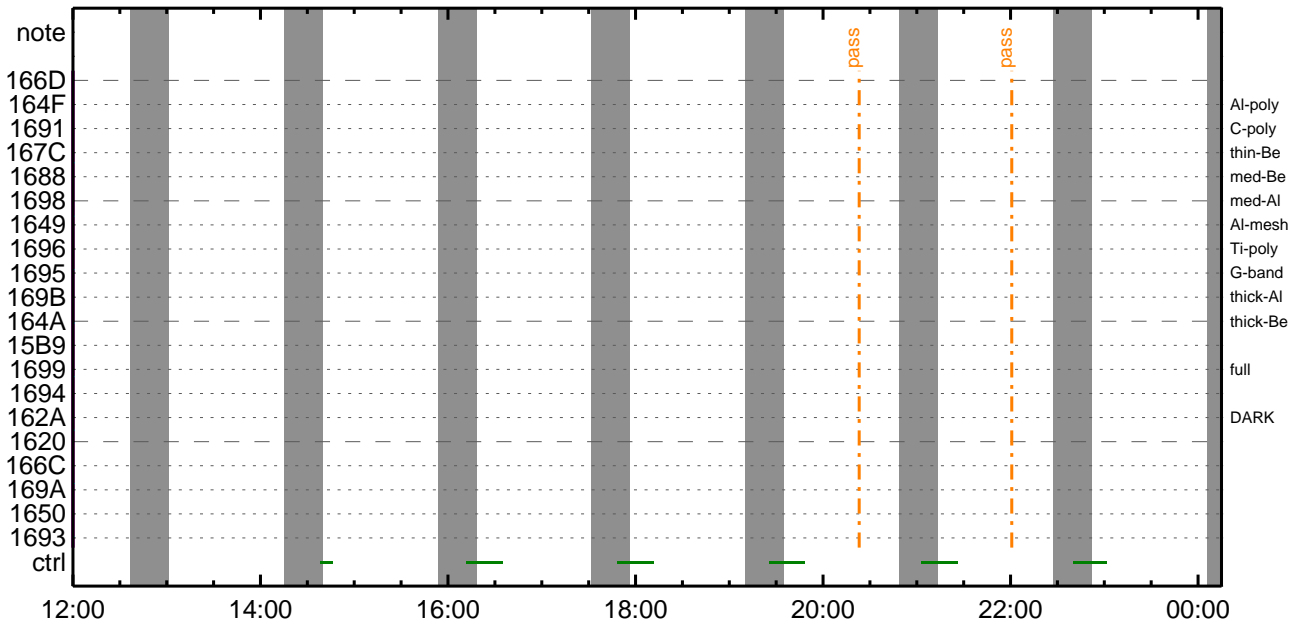
CMDI #0548 2009/05/08



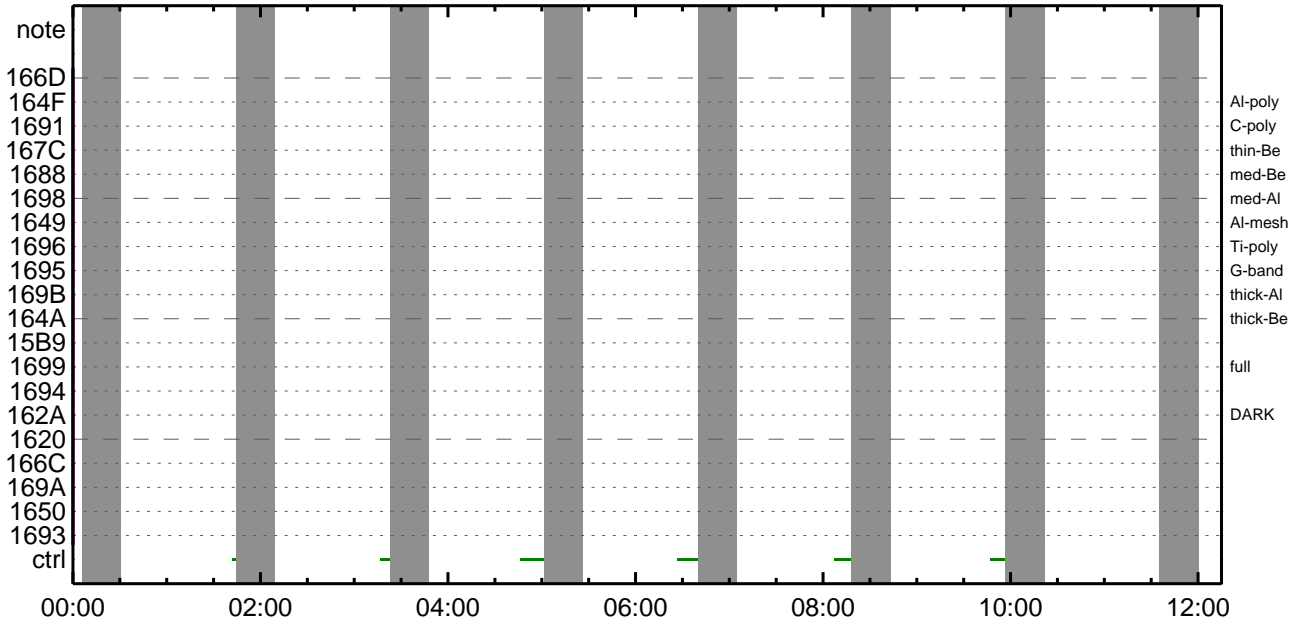
CMDI #0548 2009/05/09



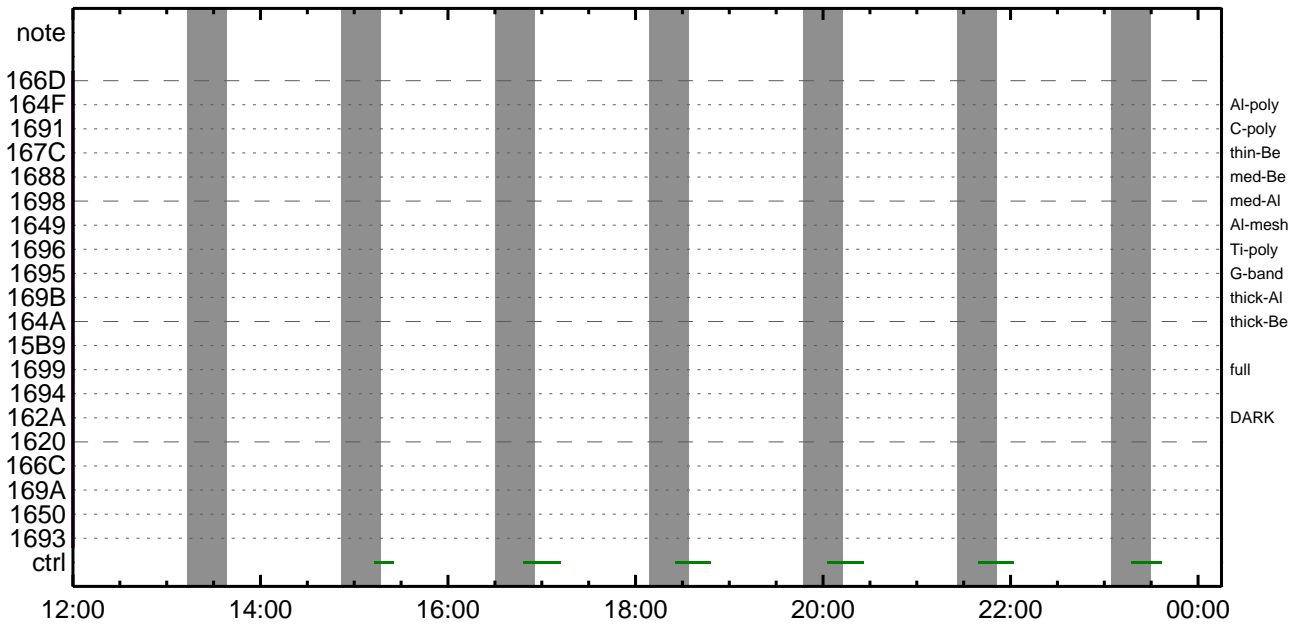
CMDI #0548 2009/05/09



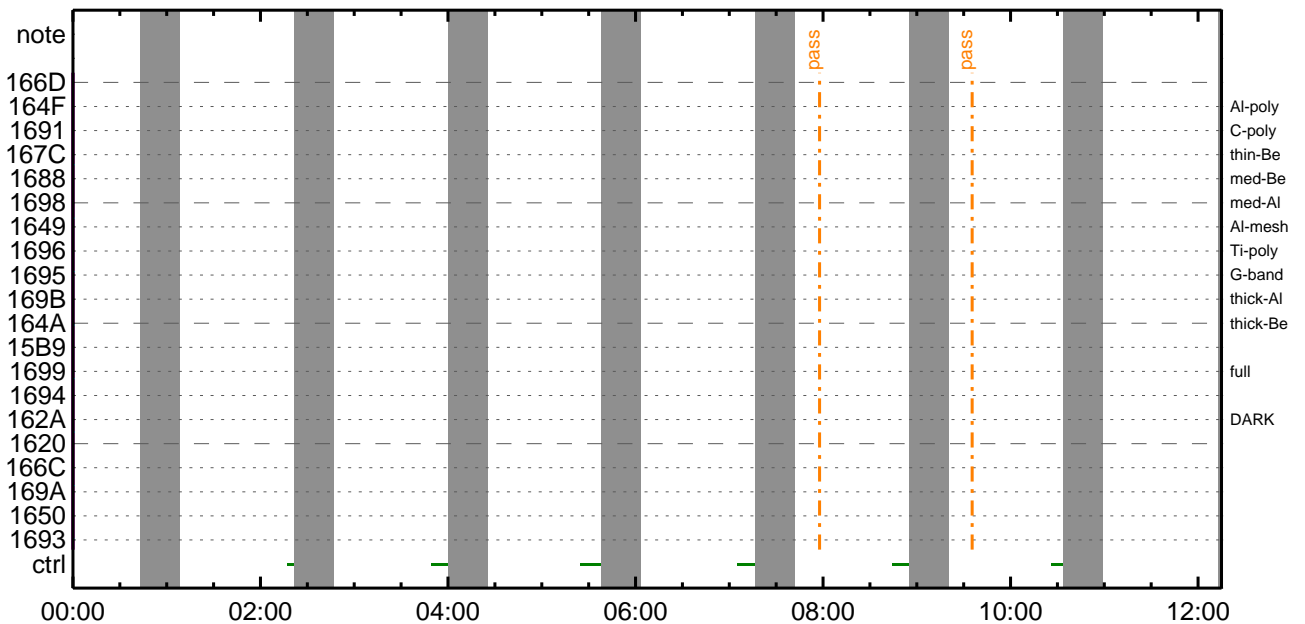
CMDI #0548 2009/05/10



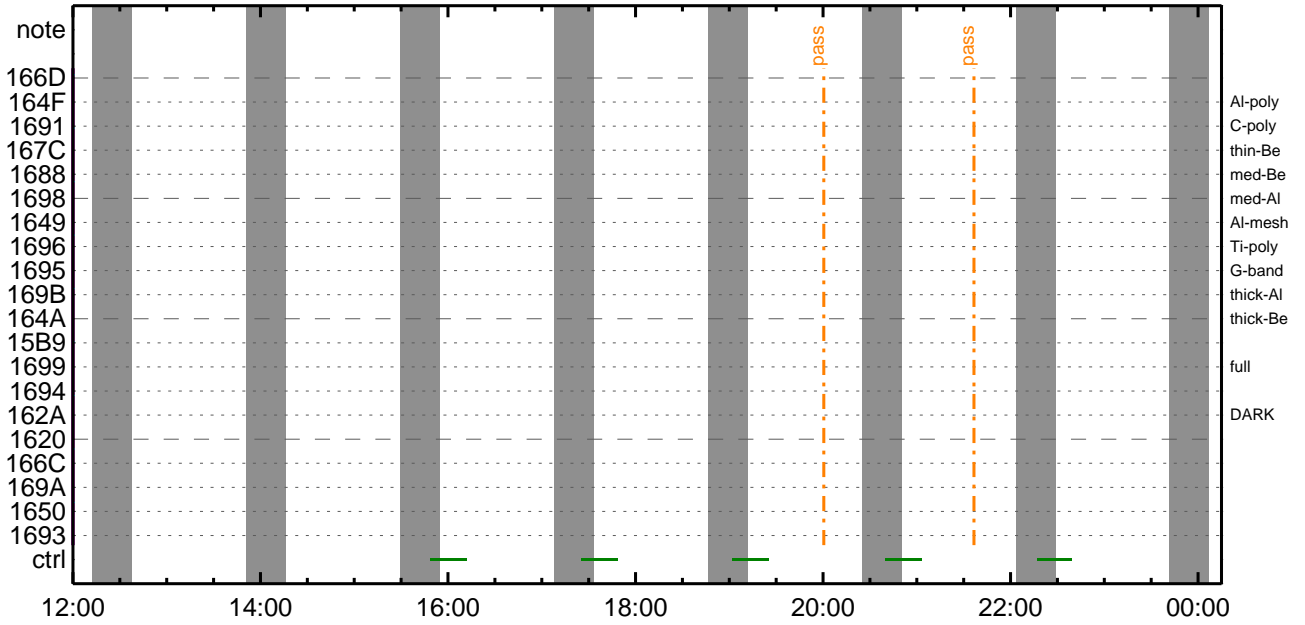
CMDI #0548 2009/05/10



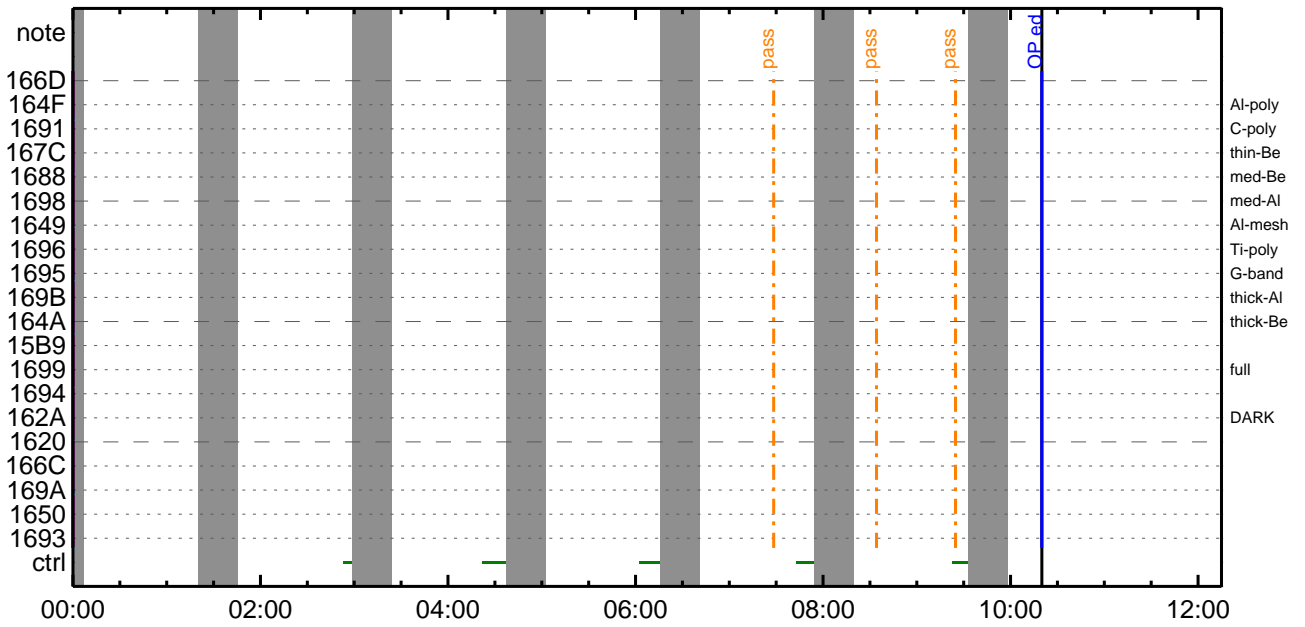
CMDI #0548 2009/05/11



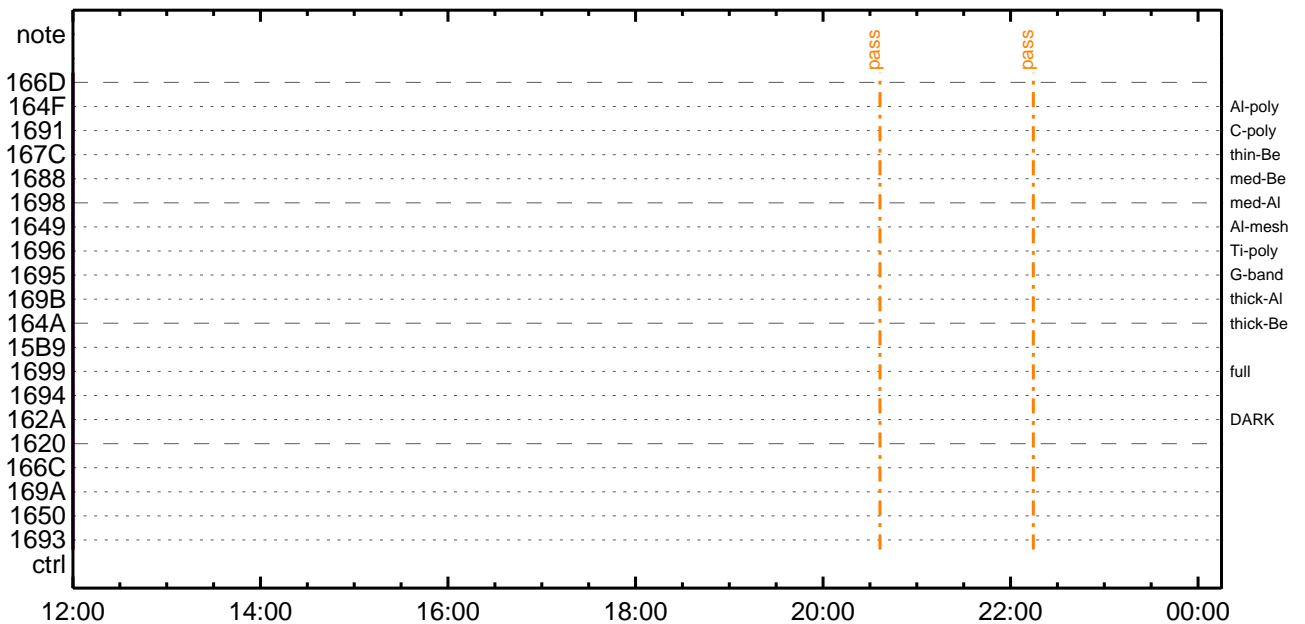
CMDI #0548 2009/05/11



CMDI #0548 2009/05/12



CMDI #0548 2009/05/12



(a) Spacecraft Operation Procedure (real-commands)

```
main-579 2009-05-07 14:38:01 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Ã»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YFÏYÉÁ+¿@
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;È¼¿ðÁð•µ°È»ÍxÁÇóÍYçYÁY×Yí;¼YÉ;ÈÈè¼µ•íÉ;ÈðÈ¼°CÖð•ñ¿¼ì¹çñÍ;çÀ®, ùñ¹ñèñþçÀ+¿@ð•ñÈññ³ñÈ;ñ
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGYí;¼YÉ;|YÁYóY×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGYí;¼YÉ;ã
0019 . S. OP op-579:OP
0020 ()
0021 . S. OG og-579:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPÍÊ°èYÁYóY×;ã
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. YÁYóY×¼³ãÊ»ðð³ÊÇ§
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGðÊ¼Ê¹ç•è²ÍOKðð³ÊÇ§
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. YÁYóY×¼³ãÊ»ðð³ÊÇ§
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGðÊ¼Ê¹ç•è²ÍOKðð³ÊÇ§
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. YÁYóY×¼³ãÊ»ðð³ÊÇ§
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OPðÊ¼Ê¹ç•è²ÍOKðð³ÊÇ§
0081 C.
0082 . C. ***** òÈ²¼òÍ¼Ã´¶Í°òÈÈ¬òÅ+¿@ (¼ãµ-YÁYóY×¼³ãÊ»çððÁÖÃæç¼³ã¬òñ¼¼ì¹çççðã) *****
0083 C. DHUã;¼YÉ;È¼Y¼;Yí;¼YÉ;ÈòðÍáñ¹
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 UPLOADñ¬Å+¿@NGòÊ¼ì¹ç;ç°È²¼òÍTI-CMDÁ+¿@ñÍ¼Å¹Ôð•ñÈññ³ñÈ;ñ
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0096 C.                ðþð¿;çSETðÈDUMPðĪÆ±°iŸÑŸ¹αÇ¹Ôα|ð³ðÈ;£
0097 C.
0098 . C. TIŸ³ŸPŸÓŸÈððÀDĪ¿(UT)
0099 +. TI 2009-05-07 10:25:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0102 C.
0103 +. TI 2009-05-07 10:25:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0106 C.
0107 +. TI 2009-05-07 10:25:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0110 C.
0111 +. TI 2009-05-07 10:29:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                çç[HK1_TI_CMD_NUM]                EQ        1COUNTUP
0114 C.
0115 C.                °È²¼αĪÄè%îĪÑαĪŸÁŸ§ŸÄŸ-¹àĪŪ
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. TIĪĪ°èŸÄŸÓŸ×
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. ŸÄŸÓŸ×¼ªªĪ»ðð³ĪÇ§
0142 C.                çç[HK1_DMP_CHK_FLG]             EQ        NON
0143 C.
0144 . C. RAM ID=TI_TBLαĪÈ¹Ç•è²ĪOKαðð³ĪÇ§
0145 C.
0146 . C. DHUŸâ;¼ŸÈ;È¼Ÿ¼,Ÿî;¼ŸÈ;ÈððĪáα¹
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 2009-05-07 10:29:16.0
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 2009-05-07 10:29:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC                (21 02)
0174 +. TI 2009-05-07 10:29:40.0
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 2009-05-07 10:29:00.0
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 `úĪĪαĪ»ðð¼ŸðÈĪDα¹αèDCBC•×²è *****
0192 C. (¼ªªĪŸÄŸÓŸ×¼ªªĪ»ðð³ĪÇ§•è²ĪOKαðð³ĪÇ§)
0193 . S. DC-BC dcbc-402:DCBC
```

```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥D¥!•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.
```



```
0096 C.
0097 C.
0098 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ( )
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCS Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_MANU
0131 BC (21 02)
0132 . C. Verify EIS in MANUAL mode
0133 . C. Estimated OBSTBL upload time is 0ms
0134 C. *****
0135 C. EIS START OBSTBL LOAD
0136 C. *****
0137 . S. RAM ram-821:EIS_OBSTBL
0138 ( )
0139 +. DC 07-FC EIS_DUMP_OBSTBL
0140 BC (07 07 07 00 00 70 00)
0141 C.
0142 C. Execute, after the success of OBSTBL upload.
0143 C. Set EIS TI-commands
0144 +. TI 2009-05-07 10:29:50.0
0145 DC 07-FC EIS_MODE_CHG_ENA
0146 BC (20)
0147 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0148 C. *****
0149 C. EIS END OBSTBL LOAD
0150 C. *****
0151 C.
0152 . C. ***** MDP 'ûÃîî»ö¼ÿñËÄðñ¹ñèDCBC•x²è *****
0153 C. (%ã°îÿÓÿÄÿËÿPÿËÿÄÿçÿèñ¼ñ¼Ä»Ûñ¹è)
0154 . S. DC-BC dcbc-402:DCBC
0155 (MDP_known_event)
0156 C.
0157 C.
0158 . C. ***** ÿÐÿ¹•Ï Daily±¿ÏñÈ´øñ¹èDCBC•x²è *****
0159 . S. DC-BC dcbc-153:DCBC
0160 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0161 C.
0162 C.
0163 . C. ;ãLOSÿÁÿÿÿÄÿ-¼Ä»Û;ã
0164 C.
0165 . C. ***** LOS *****
0166 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-581 2009-05-07 14:38:02 129 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿øÀø•µ°È»Í×ÁÇøÍYçYÁY×Yí;¼YÉ;ÈÈèµ•ííÉ;ÈøÈ¼°Çøø•ø¿¼í¹çøÍ;çÀ®, ùø¹øÈøÈøÇÁ+¿®ø•øÈøøøøøÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG_____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR _____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 06 80 80 0c 0c)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 80 80 20 20)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 08 80 80 10 10)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 09 80 80 06 06)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 0a 80 80 08 08)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0b 80 80 04 04)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0f 80 80 04 04)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 10 80 80 10 10)
0056 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0057 BC (c4 12)
0058 + DC 07-F0 MDP_XRT_ARS_DIS
0059 BC (d5)
0060 + DC 07-F0 MDP_XRT_FLD_DIS
0061 BC (d9)
0062 + DC 07-F0 MDP_XRT_FLD_DIS
0063 BC (d9)
0064 . C. ----- Success Verify ? OK / NG _____
0065 C.
0066 C.
0067 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0068 C.
0069 +. DC 07-F0 MDP_XRT_MODE_OBSV
0070 BC (c2)
0071 + DC 07-F0 MDP_XRT_CTRL_AUTO
0072 BC (c0)
0073 +. TI 2009-05-07 10:29:02.0
0074 DC 07-F0 MDP_XRT_MODE_OBSV
0075 BC (c2)
0076 +. TI 2009-05-07 10:29:04.0
0077 DC 07-F0 MDP_XRT_CTRL_AUTO
0078 BC (c0)
0079 . C. ----- Success Verify ? OK / NG _____
0080 C.
0081 C. ***** XRT END *****
0082 . C. *****
0083 C. SOT table upload
0084 C. *****
0085 . C. < Stop FG table >
0086 +. DC 07-F0 MDP_FG_CTRL_MANU
0087 BC (51)
0088 . C. -----
0089 C. MDP_FG_CTRL_MODE = MANU [ ]
0090 C. -----
0091 C.
0092 . C. <Upload FG Observation Table>
0093 . S. RAM ram-267:MDP_OBS_F
0094 ( )
0095 C.
```


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*** OP Sequence for XRT ***

```

2009/05/07 10:39:54.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 10:39:56.0 XRT_FOCUS_POSITION_441_OG [0x1b9]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2009/05/07 10:40:00.0 AOCs_OrE-point_Start_1_OG [0x097]
                        AOCU_NM 5 02-76 00 cd cb be 36
2009/05/07 10:40:16.0 XRT_QT_PROG_SET_424_OG [0x1a8]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 12
2009/05/07 10:40:18.0 XRT_ARS_DIS_422_OG [0x1a6]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2009/05/07 10:40:20.5 XRT_FLD_DIS_445_OG [0x1bd]
                        MDP_XRT_FLD_DIS 1 07-F0 d9
2009/05/07 10:40:22.5 XRT_FLRCTRL_DIS_425_OG [0x1a9]
                        MDP_XRT_FLRCTRL_DIS 1 07-F0 c9
2009/05/07 10:43:00.5 XRT_CTRL_AUTO_403_OG [0x193]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2009/05/07 11:22:00.0 XRT_CTRL_MANU_435_OG [0x1b3]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 11:46:00.0 XRT_CTRL_AUTO_432_OG [0x1b0]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2009/05/07 11:59:54.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 11:59:56.0 XRT_FOCUS_POSITION_441_OG [0x1b9]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2009/05/07 12:00:00.0 AOCs_OrE-point_Start_2_OG [0x098]
                        AOCU_NM 5 02-76 00 df 1b 4b 8d
2009/05/07 12:00:16.0 XRT_QT_PROG_SET_421_OG [0x1a5]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 0b
2009/05/07 12:00:18.0 XRT_ARS_DIS_422_OG [0x1a6]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2009/05/07 12:00:20.0 XRT_FLD_DIS_445_OG [0x1bd]
                        MDP_XRT_FLD_DIS 1 07-F0 d9
2009/05/07 12:00:22.0 XRT_FLRCTRL_DIS_425_OG [0x1a9]
                        MDP_XRT_FLRCTRL_DIS 1 07-F0 c9
2009/05/07 12:03:00.0 XRT_CTRL_AUTO_403_OG [0x193]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2009/05/07 13:00:30.0 XRT_CTRL_MANU_435_OG [0x1b3]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 13:24:30.0 XRT_CTRL_AUTO_432_OG [0x1b0]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2009/05/07 14:39:00.0 XRT_CTRL_MANU_435_OG [0x1b3]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 17:45:54.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 17:45:56.0 XRT_FOCUS_POSITION_442_OG [0x1ba]
                        XRT_FOCUS_POSITION 4 07-F8 22 ff aa 00
2009/05/07 17:46:00.0 AOCs_OrE-point_Start_3_OG [0x099]
                        AOCU_NM 5 02-76 00 00 00 00 00
2009/05/07 17:46:16.0 XRT_FLD_DIS_419_OG [0x1a3]
                        MDP_XRT_FLD_DIS 1 07-F0 d9
2009/05/07 17:46:18.0 XRT_FLRCTRL_DIS_447_OG [0x1bf]
                        MDP_XRT_FLRCTRL_DIS 1 07-F0 c9
2009/05/07 17:46:20.0 XRT_ARS_DIS_410_OG [0x19a]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2009/05/07 17:48:58.0 XRT_QT_PROG_SET_420_OG [0x1a4]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 14
2009/05/07 17:49:00.0 XRT_CTRL_AUTO_440_OG [0x1b8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2009/05/07 17:56:00.0 AOCs_OrE-point_Start_4_OG [0x09a]
                        AOCU_NM 5 02-76 00 00 00 54 00
2009/05/07 18:36:00.0 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 18:36:02.0 XRT_FOCUS_POSITION_441_OG [0x1b9]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2009/05/07 18:36:22.0 XRT_QT_PROG_SET_443_OG [0x1bb]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 03
2009/05/07 18:36:24.0 XRT_ARS_DIS_422_OG [0x1a6]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2009/05/07 18:36:26.0 XRT_FLD_DIS_445_OG [0x1bd]
                        MDP_XRT_FLD_DIS 1 07-F0 d9
2009/05/07 18:36:28.0 XRT_FLRCTRL_DIS_425_OG [0x1a9]
                        MDP_XRT_FLRCTRL_DIS 1 07-F0 c9
2009/05/07 18:39:06.0 XRT_CTRL_AUTO_403_OG [0x193]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2009/05/07 19:34:30.0 XRT_CTRL_MANU_435_OG [0x1b3]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 20:00:00.0 AOCs_OrE-point_Start_5_OG [0x09b]
                        AOCU_NM 5 02-76 00 51 ca 00 00
2009/05/07 20:12:00.0 XRT_Custom_430_OG [0x1ae]
2009/05/07 20:13:00.0 XRT_CTRL_AUTO_432_OG [0x1b0]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2009/05/07 20:13:00.5 XRT_CTRL_MANU_428_OG [0x1ac]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2009/05/07 20:13:02.5 XRT_FOCUS_POSITION_441_OG [0x1b9]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2009/05/07 20:13:22.5 XRT_QT_PROG_SET_408_OG [0x198]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 07
2009/05/07 20:13:24.5 XRT_ARS_DIS_422_OG [0x1a6]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2009/05/07 20:13:26.5 XRT_FLD_DIS_445_OG [0x1bd]
                        MDP_XRT_FLD_DIS 1 07-F0 d9

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2009/05/07	20:13:28.5	XRT_FLRCTRL_DIS_425_OG [0x1a9]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/05/07	20:16:06.5	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/07	21:13:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/07	21:49:30.0	XRT_Custom_430_OG [0x1ae]							
2009/05/07	21:50:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/07	22:51:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/07	23:24:00.0	XRT_Custom_430_OG [0x1ae]							
2009/05/07	23:25:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/08	00:29:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	00:54:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/08	02:04:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	02:32:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/08	03:40:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	05:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	05:59:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/05/08	06:00:00.0	AOCS_OrE-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2009/05/08	06:00:16.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/05/08	06:00:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/05/08	06:00:20.0	XRT_ARS_DIS_410_OG [0x19a]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/05/08	06:02:58.0	XRT_QT_PROG_SET_413_OG [0x19d]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 04				
2009/05/08	06:03:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/08	06:10:00.0	AOCS_OrE-point_Start_6_OG [0x09c]							
		AOCU_NM	5	02-76	04 00 00 00 00				
2009/05/08	08:00:00.5	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	08:00:02.5	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2009/05/08	08:00:22.5	XRT_QT_PROG_SET_412_OG [0x19c]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 08				
2009/05/08	08:00:24.5	XRT_ARS_DIS_422_OG [0x1a6]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/05/08	08:00:26.5	XRT_FLD_DIS_445_OG [0x1bd]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/05/08	08:00:28.5	XRT_FLRCTRL_DIS_425_OG [0x1a9]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/05/08	08:03:06.5	XRT_CTRL_AUTO_403_OG [0x193]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/08	08:31:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	09:06:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/08	10:11:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	10:45:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/08	11:59:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	12:00:00.0	AOCS_OrE-point_Start_5_OG [0x09b]							
		AOCU_NM	5	02-76	00 51 ca 00 00				
2009/05/08	18:06:24.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	18:06:26.0	XRT_FOCUS_POSITION_442_OG [0x1ba]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2009/05/08	18:06:30.0	AOCS_OrE-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2009/05/08	18:06:46.0	XRT_FLD_DIS_419_OG [0x1a3]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2009/05/08	18:06:48.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2009/05/08	18:06:50.0	XRT_ARS_DIS_410_OG [0x19a]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2009/05/08	18:09:28.0	XRT_QT_PROG_SET_420_OG [0x1a4]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 14				
2009/05/08	18:09:30.0	XRT_CTRL_AUTO_440_OG [0x1b8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2009/05/08	18:16:30.0	AOCS_OrE-point_Start_7_OG [0x09d]							
		AOCU_NM	5	02-76	00 ac 00 00 00				
2009/05/08	18:28:00.0	XRT_CTRL_MANU_428_OG [0x1ac]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2009/05/08	18:28:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2009/05/08	18:28:22.0	XRT_QT_PROG_SET_423_OG [0x1a7]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 11				
2009/05/08	18:28:24.0	XRT_ARS_DIS_422_OG [0x1a6]							

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2009/05/08	18:28:26.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/08	18:28:28.0	XRT_FLRCTRL_DIS_429_OG [0x1ad]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/08	18:31:30.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/08	20:16:30.0	AOCS_ORe-point_Start_4_OG [0x09a]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/08	20:28:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	AOCU_NM	5	02-76	00 00 00 54 00
2009/05/08	20:28:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/08	20:28:22.0	XRT_QT_PROG_SET_405_OG [0x195]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/05/08	20:28:24.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0d
2009/05/08	20:28:26.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/08	20:28:28.0	XRT_FLRCTRL_DIS_429_OG [0x1ad]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/08	20:31:30.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/08	22:16:30.0	AOCS_ORe-point_Start_3_OG [0x099]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/08	23:18:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	AOCU_NM	5	02-76	00 00 00 00 00
2009/05/08	23:18:02.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/08	23:18:22.0	XRT_QT_PROG_SET_407_OG [0x197]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/05/08	23:18:24.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 09
2009/05/08	23:18:26.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/08	23:18:28.0	XRT_FLRCTRL_DIS_425_OG [0x1a9]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/08	23:21:06.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/09	00:04:00.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/09	00:59:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/09	00:59:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/09	01:00:00.0	AOCS_ORe-point_Start_2_OG [0x098]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2009/05/09	01:00:16.0	XRT_QT_PROG_SET_421_OG [0x1a5]	AOCU_NM	5	02-76	00 df 1b 4b 8d
2009/05/09	01:00:18.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0b
2009/05/09	01:00:20.0	XRT_FLD_DIS_445_OG [0x1bd]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/09	01:00:22.0	XRT_FLRCTRL_DIS_425_OG [0x1a9]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/09	01:03:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/09	01:07:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/09	01:31:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/09	02:40:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/09	03:10:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/09	04:08:00.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/09	04:48:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/09	05:48:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/09	06:26:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/09	06:26:56.0	XRT_FOCUS_POSITION_442_OG [0x1ba]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/09	06:27:00.0	AOCS_ORe-point_Start_3_OG [0x099]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2009/05/09	06:27:16.0	XRT_FLD_DIS_419_OG [0x1a3]	AOCU_NM	5	02-76	00 00 00 00 00
2009/05/09	06:27:18.0	XRT_FLRCTRL_DIS_447_OG [0x1bf]	MDP_XRT_FLD_DIS	1	07-F0	d9
2009/05/09	06:27:20.0	XRT_ARS_DIS_410_OG [0x19a]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2009/05/09	06:29:58.0	XRT_QT_PROG_SET_413_OG [0x19d]	MDP_XRT_ARS_DIS	1	07-F0	d5
2009/05/09	06:30:00.0	XRT_CTRL_AUTO_403_OG [0x193]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 04
2009/05/09	06:36:54.0	XRT_CTRL_MANU_428_OG [0x1ac]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2009/05/09	06:36:56.0	XRT_FOCUS_POSITION_441_OG [0x1b9]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2009/05/09	06:37:00.0	AOCS_ORe-point_Start_6_OG [0x09c]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
			AOCU_NM	5	02-76	04 00 00 00 00

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2009/05/09	06:37:16.0	XRT_QT_PROG_SET_412_OG [0x19c]							
			MDP_XRT_QT_PROG_SET	2	07-F0	c4	08		
2009/05/09	06:37:18.0	XRT_ARS_DIS_422_OG [0x1a6]							
			MDP_XRT_ARS_DIS	1	07-F0	d5			
2009/05/09	06:37:20.0	XRT_FLD_DIS_445_OG [0x1bd]							
			MDP_XRT_FLD_DIS	1	07-F0	d9			
2009/05/09	06:37:22.0	XRT_FLRCTRL_DIS_425_OG [0x1a9]							
			MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2009/05/09	06:40:00.0	XRT_CTRL_AUTO_403_OG [0x193]							
			MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/05/09	07:29:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
			MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/05/09	08:05:30.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
			MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/05/09	09:08:30.0	XRT_CTRL_MANU_435_OG [0x1b3]							
			MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/05/09	09:44:00.0	XRT_CTRL_AUTO_432_OG [0x1b0]							
			MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2009/05/09	10:51:00.0	XRT_CTRL_MANU_435_OG [0x1b3]							
			MDP_XRT_CTRL_MANU	1	07-F0	c1			
2009/05/09	11:22:00.0	AOCS_ORe-point_Start_3_OG [0x099]							
			AOCU_NM	5	02-76	00	00	00	00