XRT Timeline to be uploaded on 2010/07/22

Period: 2010/07/22 10:04:00 - 2010/07/27 10:46:00

* * * * * **Normal mode** * * * * *

XOB #17CB: HOP146 2-filter - Ti/poly 8s, Al/mesh 4s, G-band - 512FOV 15min cadence - Q90-AEC2

Term	Pointing (x, y)	Comment
07/22 10:35:00 - 07/22 15:01:00	Track (-15.7, 288.0) @ 07/22 10:14:00	# OP start + 10min/ HOP 163 on disk CH

PROG= 19 Inf.-time(s)
- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 3 1-time(s) 2.0sec**
    - Open/G-band Open/G-band open Safe Norm 63ms Obs 1x1 512x512 (1024, 1024) Q=90 0 0 2.0sec
- **Subr= 2 4-time(s) 900.0sec**
  - **Seqn= 15 2-time(s) 30.0sec**
    - Open/Al-mesh Open/Al-mesh close Safe Norm 4.00s Obs 1x1 512x512 (1024, 1024) Q=90 2 0 2.0sec
    - Open/Ti-poly Open/Ti-poly close Safe Norm 8.00s Obs 1x1 512x512 (1024, 1024) Q=90 2 0 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #16AC: G-Band Alignment with North Pole Q90 2x2(G-band only) - 5min cadence - Partial Sun-wNGT

Term	Pointing (x, y)	Comment
07/22 15:45:00 - 07/22 17:29:54	Fixed (0.0, 945.0)	Coalignment at North pole

PROG= 05 1-time(s)
- **Subr= 1 1-time(s) 360.0sec**
  - **Seqn= 21 24-time(s) 300.0sec**
    - Open/G-band Open/G-band open Safe Norm 16ms Obs 2x2 2048x1536 (1024, 768) Q=90 0 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
07/22 17:33:00 - 07/22 18:18:00	Fixed (0.0, 0.0)	synoptic / SOT flat field
07/23 06:23:00 - 07/23 06:29:54	Fixed (0.0, 0.0)	synoptic, shifted 20.0 min
07/23 18:04:00 - 07/23 18:10:54	Fixed (0.0, 0.0)	synoptic, shifted 1.0 min
07/24 05:51:00 - 07/24 05:57:54	Fixed (0.0, 0.0)	synoptic, shifted -12.0 min

PROG= 03 1-time(s)
- **Subr= 1 1-time(s) 12.0sec**
  - **Seqn= 7 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= 8 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

XOB #16AD: G-Band Alignment with East limb Q90 2x2 (G-band only) - 8 min cadence-wNGT

Term	Pointing (x, y)	Comment
07/22 19:15:00 - 07/22 20:59:54	Fixed (-945.0, 0.0)	#Coalignment at East limb

PROG= 10 1-time(s)
- **Subr= 1 1-time(s) 360.0sec**
  - **Seqn= 22 15-time(s) 480.0sec**
    - Open/G-band Open/G-band open Safe Norm 16ms Obs 2x2 1536x2048 (1280, 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 #17EE: AR Standard-B(Morphology) for FW1=Open, 384x384 at 1064 1048, 10sec-cad

Term	Pointing (x, y)	Comment
07/22 21:03:02 - 07/23 01:59:54	Track (-491.2, -460.0) @ 07/22 21:00:00	AR monitoring near east limb

PROG= 16 Inf.-time(s)
- **Subr= 2 1-time(s) 2.0sec**
  - **Seqn= 76 1-time(s) 2.0sec**
    - Open/G-band Open/G-band open Safe Norm 63ms Obs 1x1 384x384 (1064, 1048) Q=98 0 0 2.0sec
  - **Seqn= 95 4-time(s) 2.0sec**
    - Open/Al-mesh Open/Ti-poly close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec
    - Open/Ti-poly Open/thick-Al close Safe Norm 500ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec
    - Open/thick-Al Open/thick-Be close Safe Norm 1.00s Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec
- **Subr= 1 1-time(s) 2.0sec**
  - **Seqn= 25 240-time(s) 10.0sec**
    - Open/Ti-poly Open/thick-Al close Safe Norm 250ms Obs 1x1 384x384 (1064, 1048) Q=95 3 0 2.0sec

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

XOB #17ED: AR Standard-A(Filter-Ratio) for FW1=Open, 384x384 at 1064 1048, 2min-cad

Term	Pointing (x, y)	Comment
07/23 02:03:00 - 07/23 06:19:54	Track (-491.2, -460.0) @ 07/22 21:00:00	AR monitoring near east limb
07/23 06:33:00 - 07/23 17:17:00	Track (-426.7, -464.1) @ 07/23 06:30:00	# cont.
07/23 18:14:00 - 07/24 05:47:54	Track (-342.7, -468.5) @ 07/23 18:11:00	# cont.
07/24 06:01:00 - 07/24 09:36:00	Track (-253.7, -472.1) @ 07/24 05:58:00	# cont.

	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
PROG= 17 Inf.-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 76 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
Seqn= 96 1-time(s) 2.0sec													
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
	Open/thick-Al	Open/thick-Be	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Subr= 2 1-time(s) 2.0sec													
Seqn= 78 20-time(s) 120.0sec													
	Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec

✲ ✲ ✲ ✲ ✲ Flare mode ✲ ✲ ✲ ✲ ✲

XOB #17EF: Flare Standard Obs. with eruptions mode-A (FW1=Open)

Term	Pointing (x, y)	Comment
07/22 10:35:00 - 07/22 15:01:00	Track (-15.7, 288.0) @ 07/22 10:14:00	# OP start + 10min/ HOP 163 on disk CH
07/22 21:03:02 - 07/23 01:59:54	Track (-491.2, -460.0) @ 07/22 21:00:00	AR monitoring near east limb
07/23 02:03:00 - 07/23 06:19:54	Track (-491.2, -460.0) @ 07/22 21:00:00	AR monitoring near east limb
07/23 06:33:00 - 07/23 17:17:00	Track (-426.7, -464.1) @ 07/23 06:30:00	# cont.
07/23 18:14:00 - 07/24 05:47:54	Track (-342.7, -468.5) @ 07/23 18:11:00	# cont.
07/24 06:01:00 - 07/24 09:36:00	Track (-253.7, -472.1) @ 07/24 05:58:00	# cont.

PROG= 07 1-time(s)													
Subr= 1 30-time(s) 20.0sec													
Seqn= 87 1-time(s) 2.0sec													
	Open/thick-Al	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
	Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Seqn= 91 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=95	0	0	2.0sec
Subr= 2 1-time(s) 2.0sec													
Seqn= 90 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
	Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
	Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 3 30-time(s) 60.0sec													
Seqn= 87 1-time(s) 2.0sec													
	Open/thick-Al	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
	Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Seqn= 88 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
Subr= 2 1-time(s) 2.0sec													
Seqn= 90 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
	Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
	Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 3 30-time(s) 60.0sec													
Seqn= 87 1-time(s) 2.0sec													
	Open/thick-Al	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
	Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Seqn= 88 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
Subr= 2 1-time(s) 2.0sec													
Seqn= 90 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
	Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
	Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=98	0	0	2.0sec
Subr= 3 30-time(s) 60.0sec													
Seqn= 87 1-time(s) 2.0sec													
	Open/thick-Al	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
	Open/thick-Be	Open/thick-Be	close	Safe	Norm	2.00s	Obs	1x1	384x384 (1024, 1024)	Q=95	3	0	2.0sec
Seqn= 88 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
	Open/Ti-poly	Open/Ti-poly	close	Safe	Norm	1.00s	Obs	2x2	512x512 (1024, 1024)	Q=95	2	0	2.0sec
Subr= 4 24-time(s) 600.0sec													
Seqn= 89 1-time(s) 2.0sec													
	Open/thick-Al	Open/thick-Al	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
	Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec

Open/Al-mesh	Open/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Open/Ti-poly	Open/thick-Be	close	Safe	Norm	500ms	Obs	1x1	384x384 (1024, 1024)	Q=95	1	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer		Interval

Active Region Search

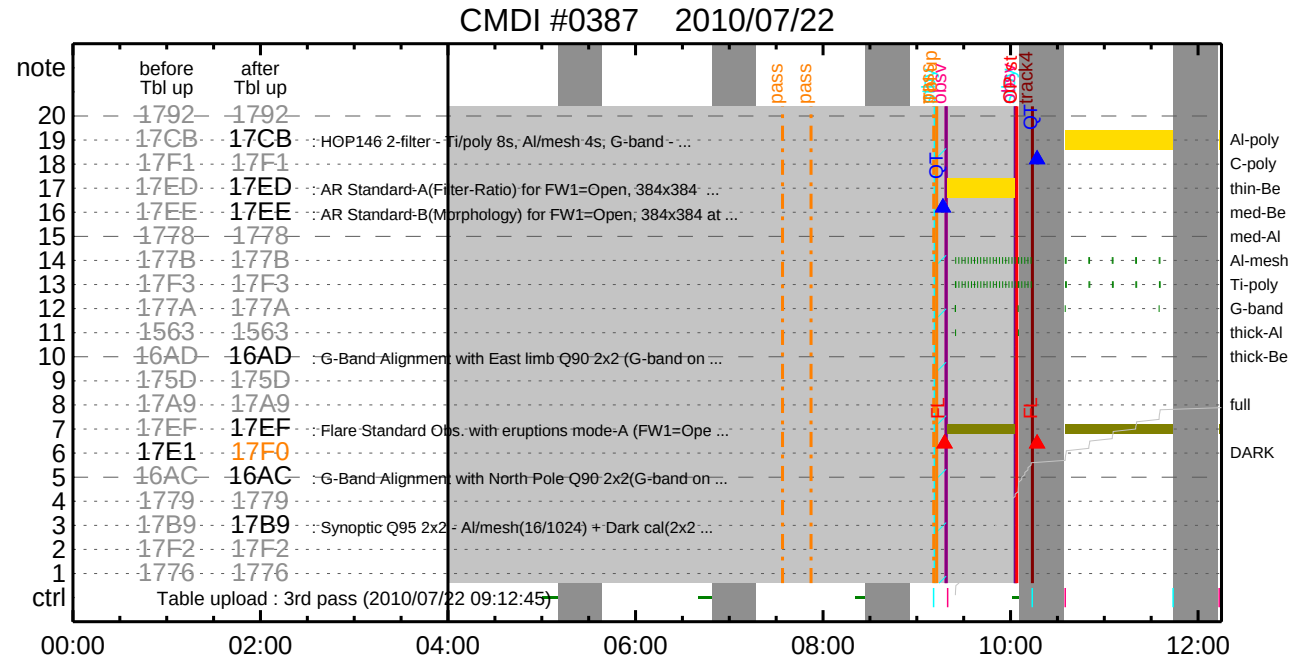
NOT USED

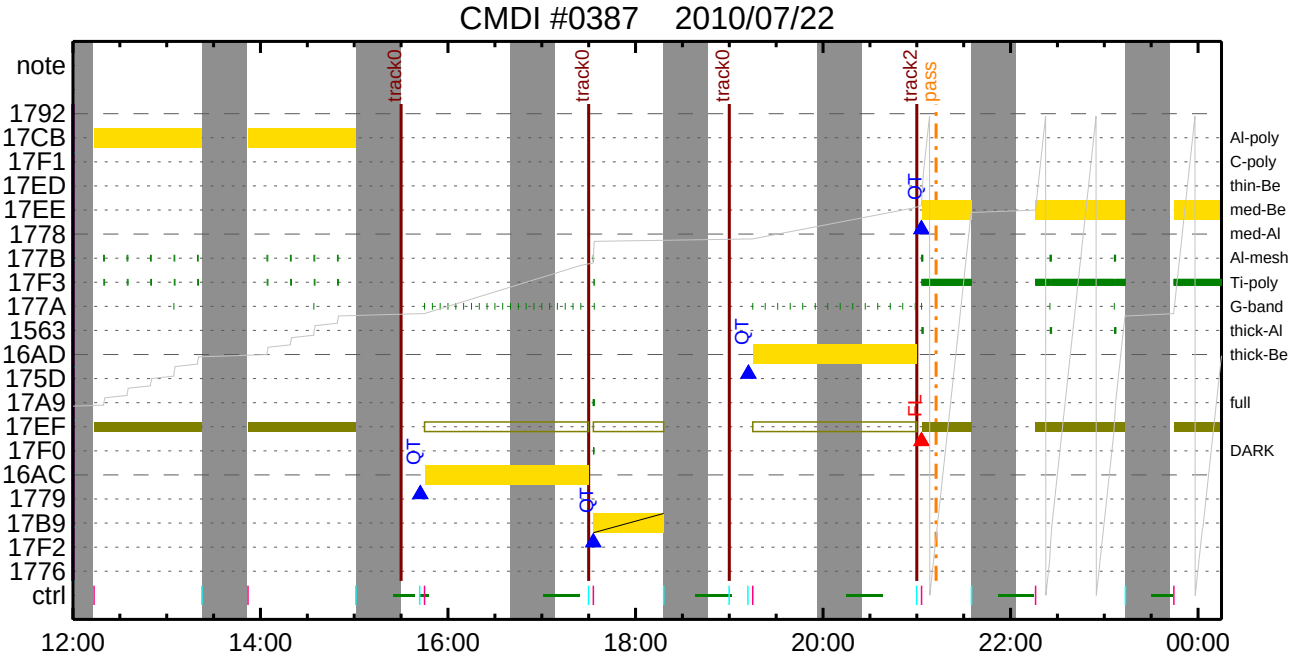
Flare Detection

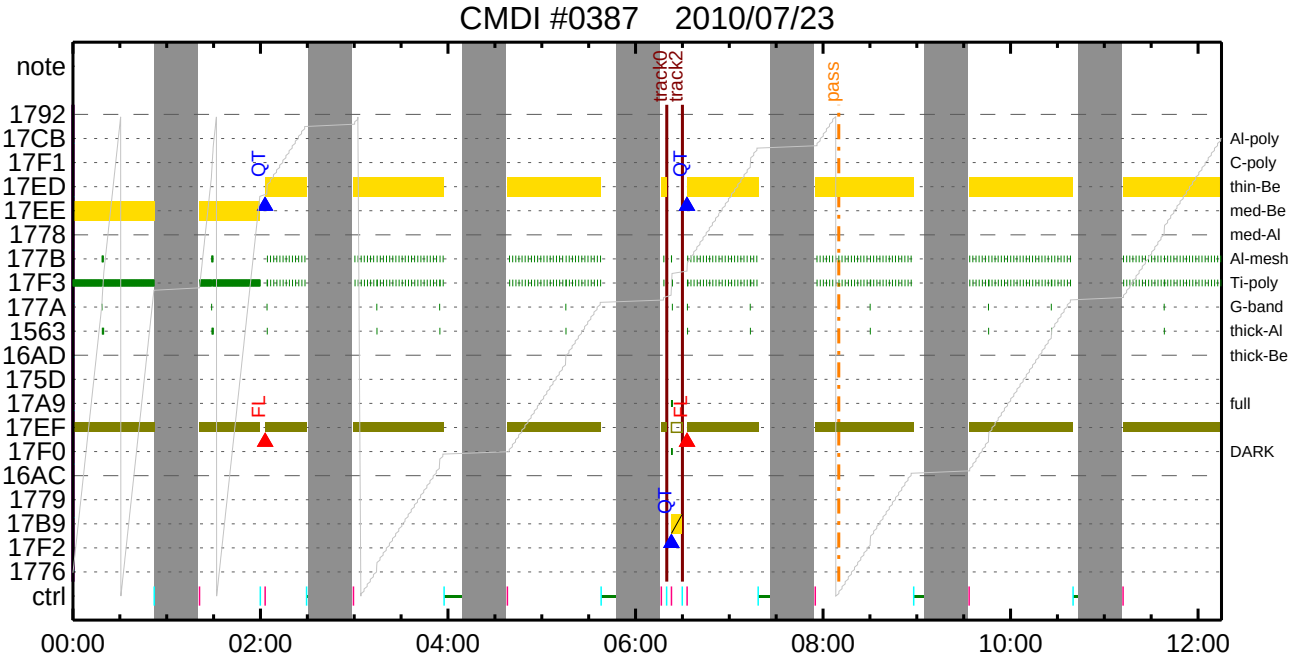
FLD Patrol

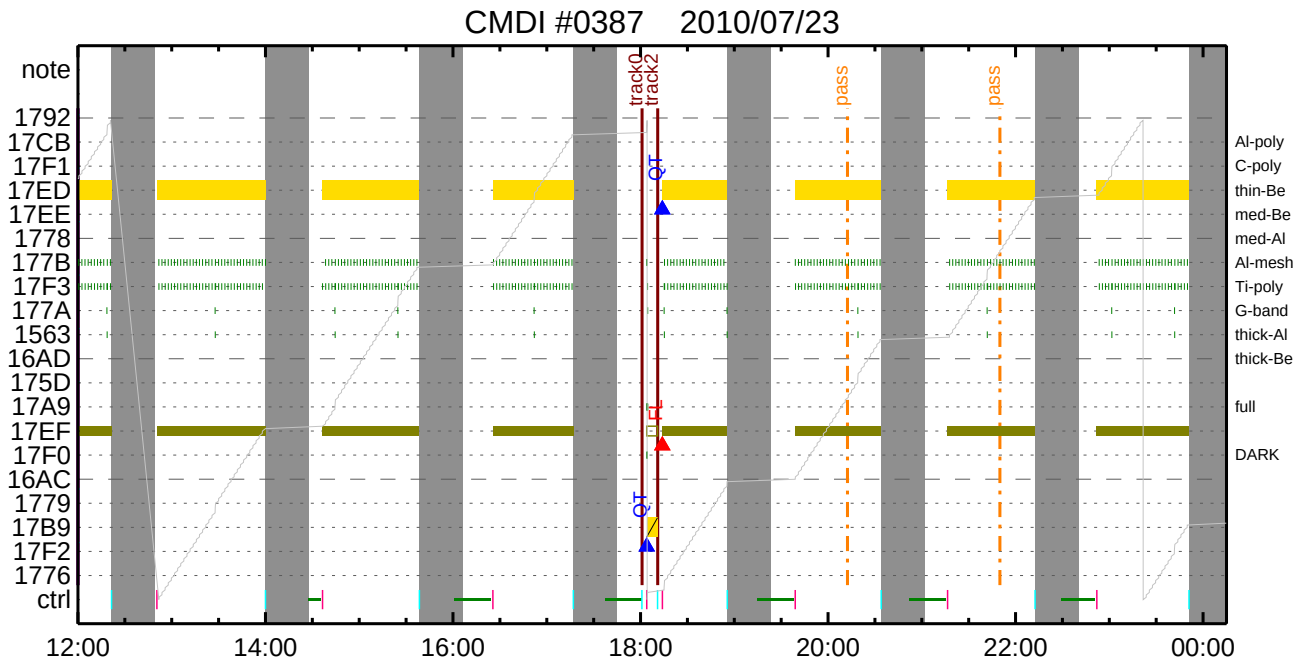
Term	Pointing (x, y)	Comment
07/22 21:00:18 - 07/23 06:20:16	Track (-491.2, -460.0) @ 07/22 21:00:00	AR monitoring near east limb
07/23 06:30:18 - 07/23 18:01:16	Track (-426.7, -464.1) @ 07/23 06:30:00	# cont.
07/23 18:11:18 - 07/24 05:48:16	Track (-342.7, -468.5) @ 07/23 18:11:00	# cont.
07/24 05:58:18 - 07/27 10:46:00	Track (-253.7, -472.1) @ 07/24 05:58:00	# cont.

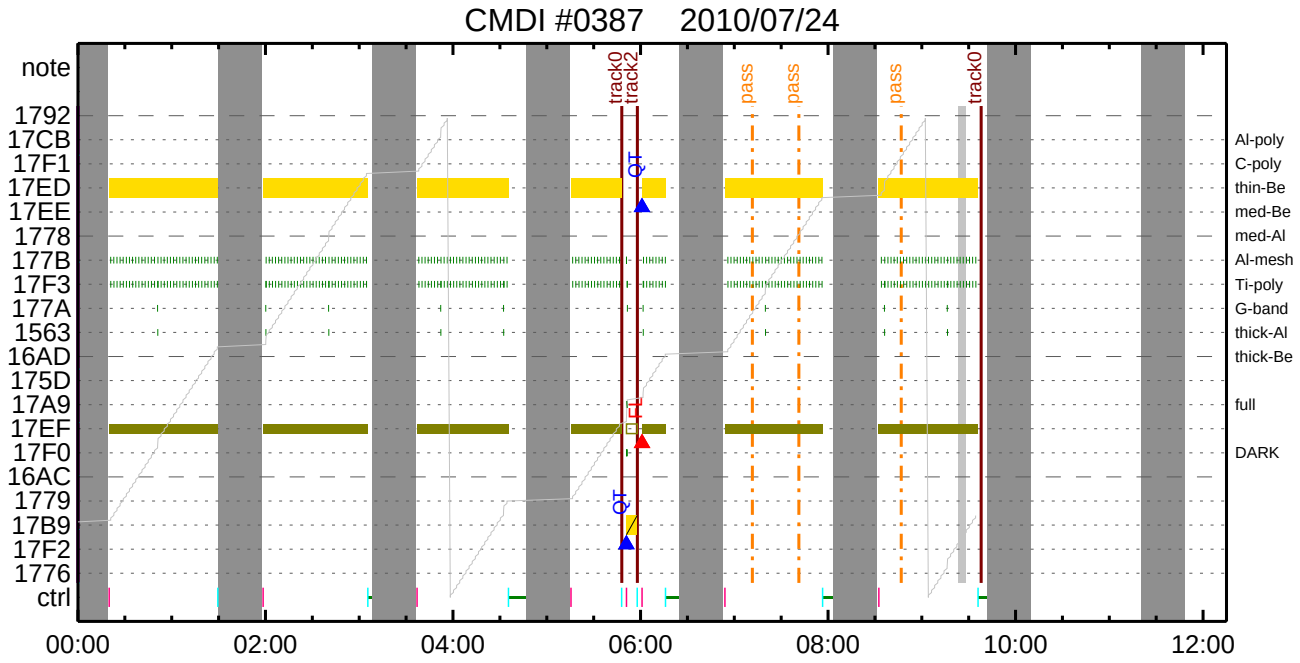
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8ms	Obs	8x8		Q=50			30sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer		Interval


CMDI #0387 2010/07/22
note
before Tbl up
after Tbl up
: HOP146 2-filter - Ti/poly 8s, Al/mesh 4s, G-band - ...
: AR Standard-A(Filter-Ratio) for FW1=Open, 384x384 ...
: AR Standard-B(Morphology) for FW1=Open, 384x384 at ...
: G-Band Alignment with East limb Q90 2x2 (G-band on ...
: Flare Standard Obs. with eruptions mode-A (FW1=Ope ...
: G-Band Alignment with North Pole Q90 2x2(G-band on ...
: Synoptic Q95 2x2 - Al/mesh(16/1024) + Dark cal(2x2 ...
Table upload : 3rd pass (2010/07/22 09:12:45)
pass
pass
obs
obs
track4
QT
FL
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0387 2010/07/22
note
track0
track0
track0
track2
pass
QT
QT
QT
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0387 2010/07/23
note
track0
track2
pass
QT
QT
QT
FL
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0387 2010/07/23
note
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
16AD
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
track0
track2
pass
pass
QT
QT
RT
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0387 2010/07/24
note
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
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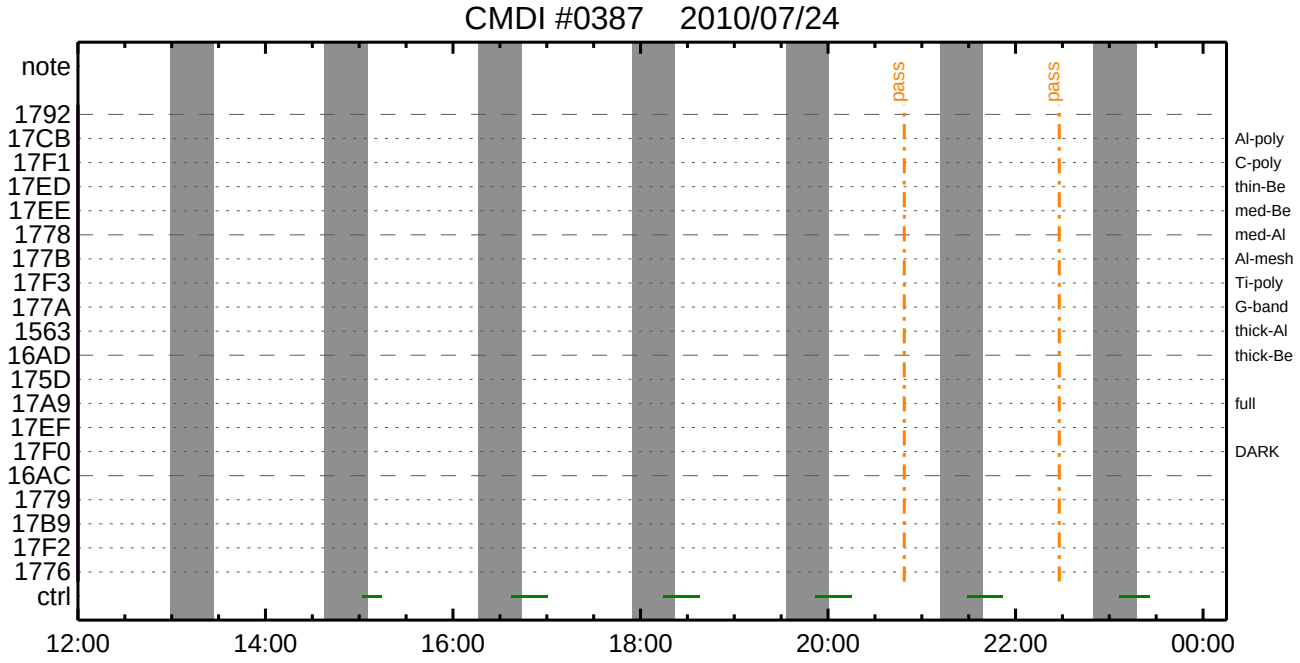
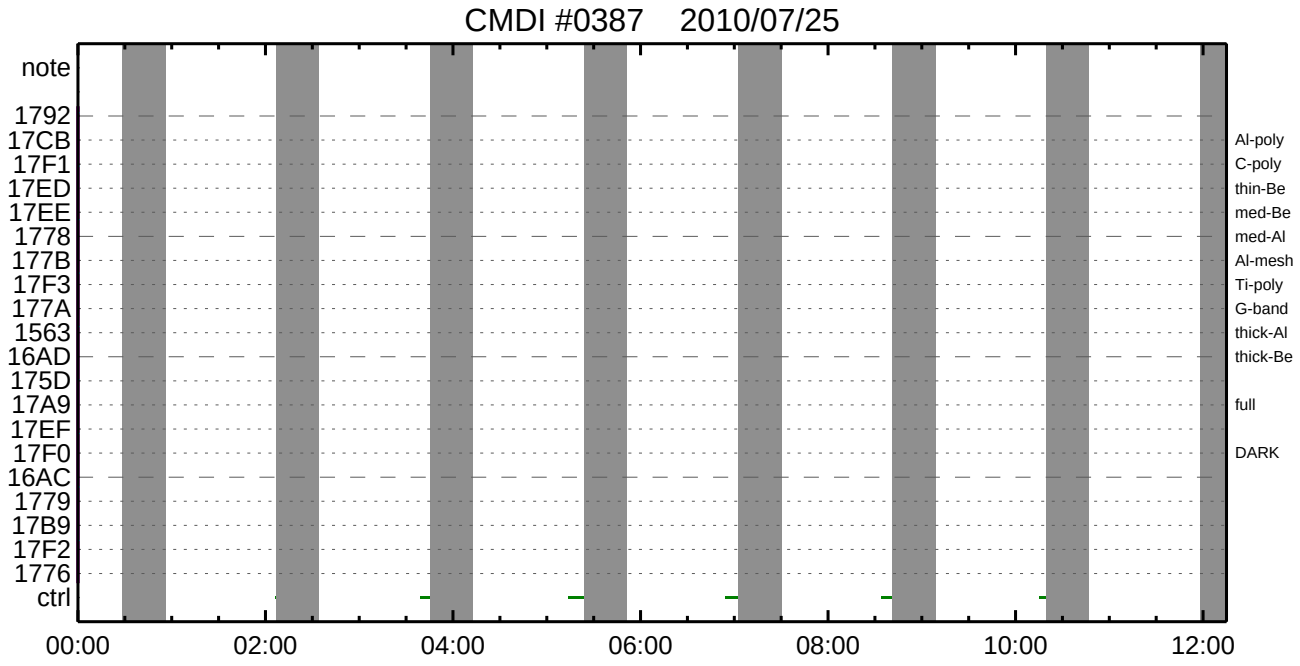
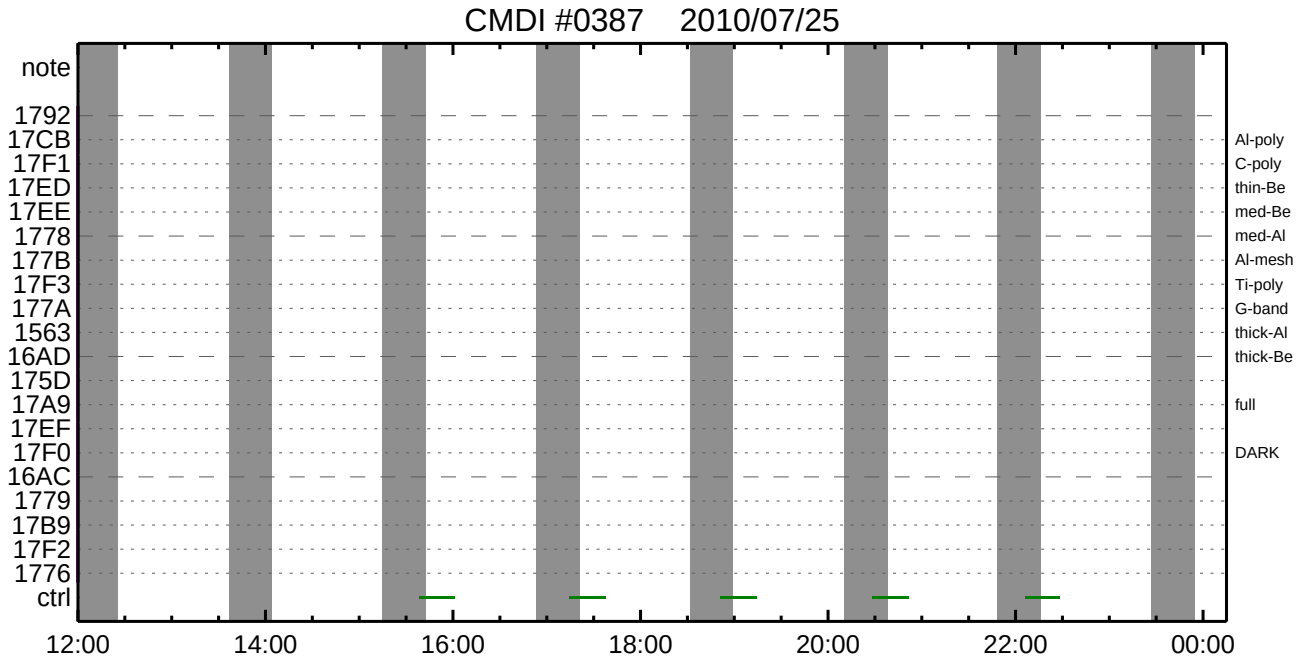
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
track0
track2
pass
pass
pass
track0
QT
QT
RT
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0387 2010/07/24
note
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
16AD
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
pass
pass
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0387 2010/07/25
note
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
16AD
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0387 2010/07/25
note
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
16AD
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
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thick-Be
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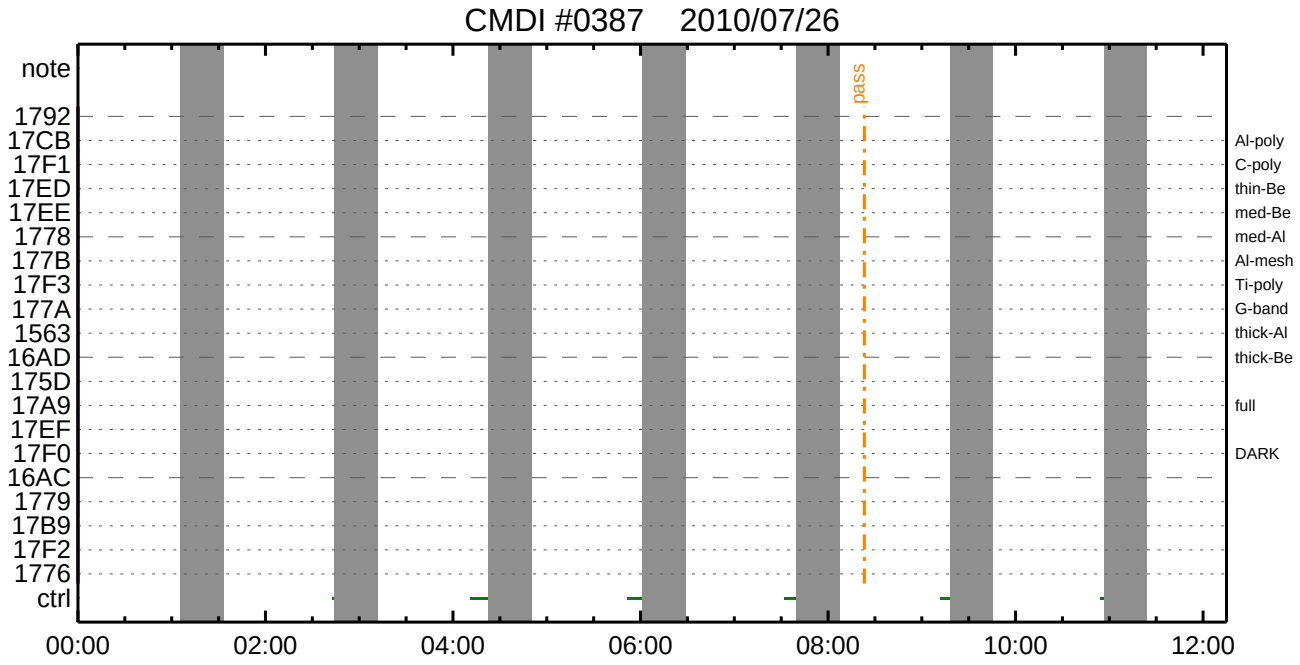
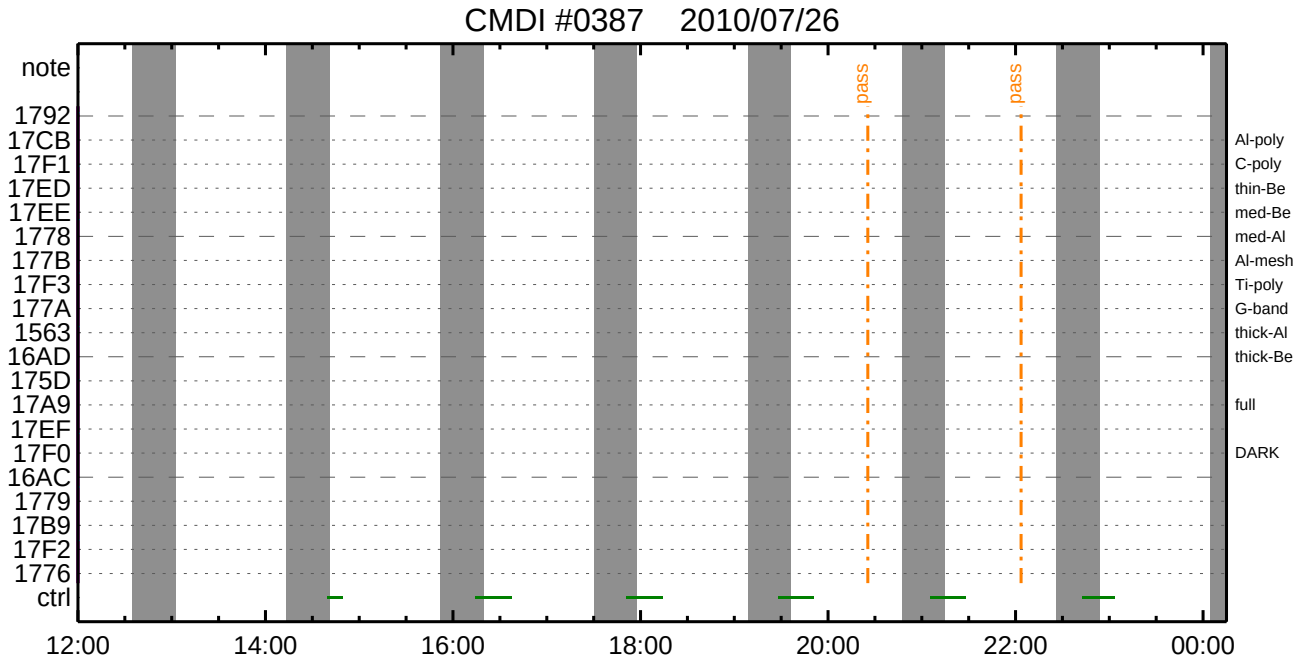
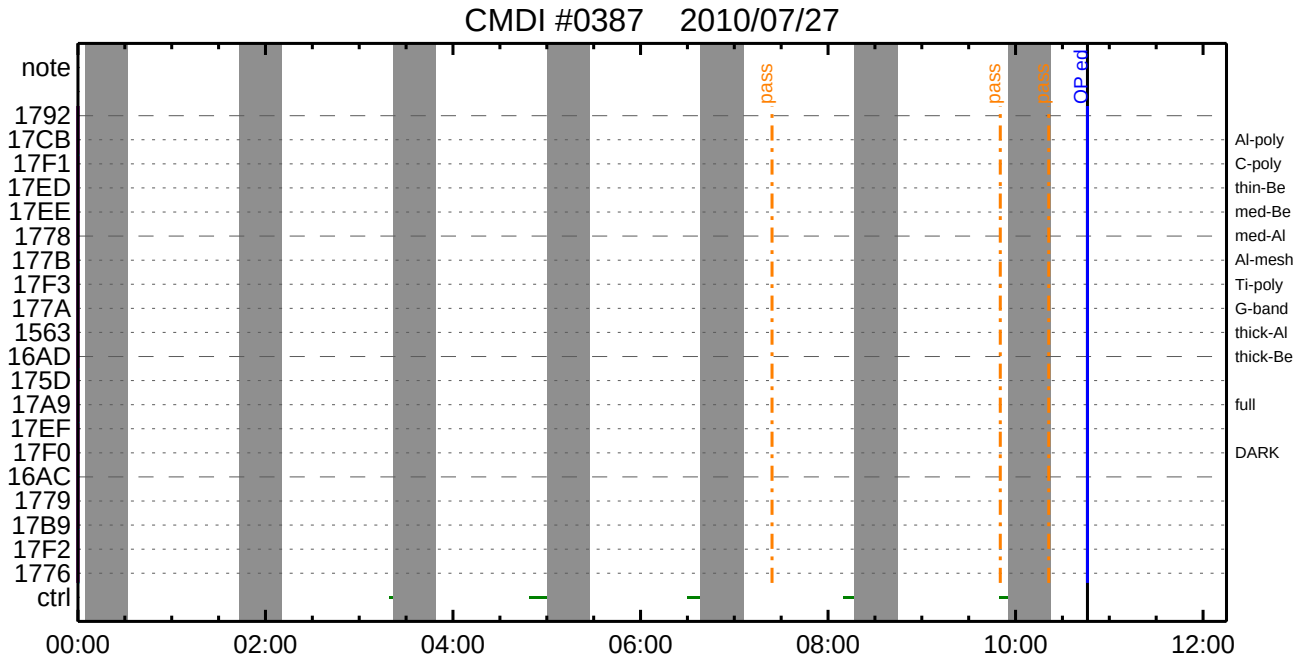
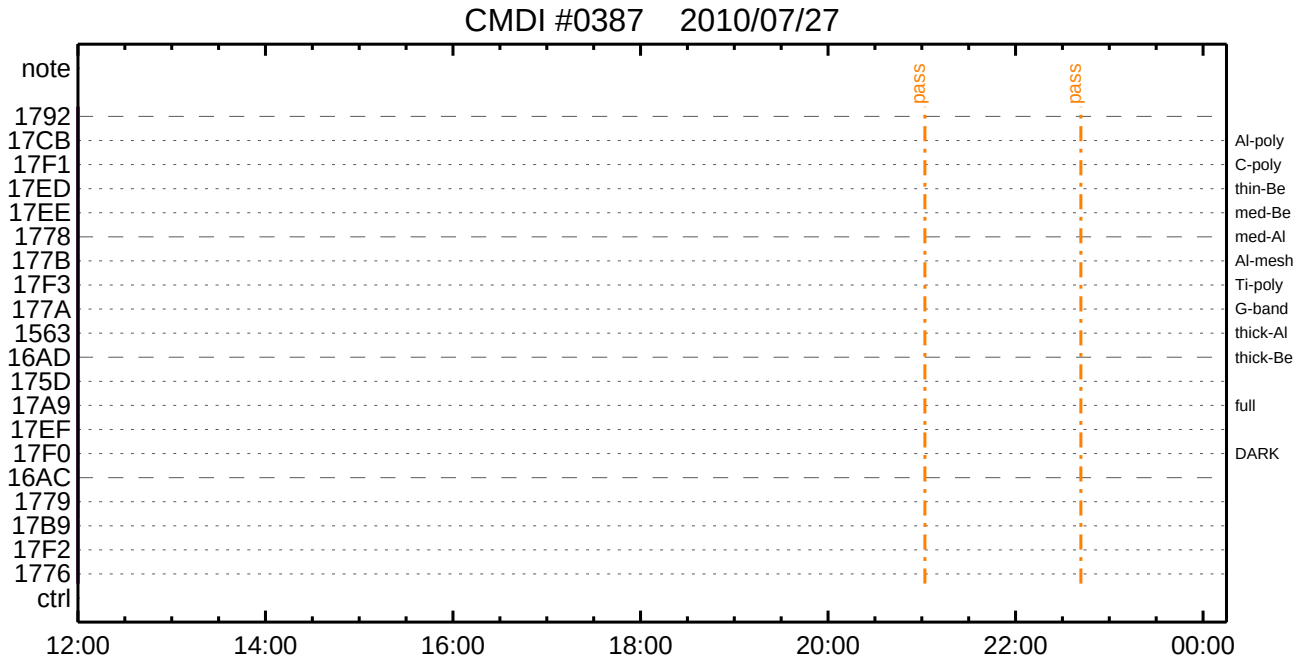
14:00
16:00
18:00
20:00
22:00
00:00


CMDI #0387 2010/07/26
note
pass
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
16AD
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0387 2010/07/26
note
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
16AD
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
pass
pass
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0387 2010/07/27
note
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
16AD
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
pass
pass
pass
OP end
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0387 2010/07/27
note
1792
17CB
17F1
17ED
17EE
1778
177B
17F3
177A
1563
16AD
175D
17A9
17EF
17F0
16AC
1779
17B9
17F2
1776
ctrl
pass
pass
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK

```
(a) Spacecraft Operation Procedure (real-commands)

main-483 2010-07-22 12:55:07 289 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇºÎ»Þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
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.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
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.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0047   +. DC 06-B3 DR_REP_START
0048   +  DC 01-32 DHU_X_VC4_ON
0049     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸å¡¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÈÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
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.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0073   +. DC 06-B3 DR_REP_START
0074   +  DC 01-32 DHU_X_VC4_ON
0075     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098   . C. ****************************
0099     C. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0100     C. ****************************
0101     C.
0102   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0103   . S. OP    op-483:OP
0104     ()
0105   . S. OG    og-483:OG
0106     ()
0107     C.
0108   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
0109     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
0110   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111     BC       (20 00 7f 01 02)
0112     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0113     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0114     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0115     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0116     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0117   +. DC 01-22 DHU_MODE_CHNG
0118     BC       (07 0b f8)
0119     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0120     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0121     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0122     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0123     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0124   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0125     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0126   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0127     C.
0128     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
0129   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130     BC       (20 80 7f 01 02)
0131     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0132     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0133     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0134     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0135     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0136   +. DC 01-22 DHU_MODE_CHNG
0137     BC       (07 0b f8)
0138     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0139     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0140     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0141     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0142     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0143   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0144     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0145   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0146     C.
0147     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149     BC       (21 00 41 01 02)
0150     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0151     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0152     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0153     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0154     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0155   +. DC 01-22 DHU_MODE_CHNG
0156     BC       (07 0b f8)
0157     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0158     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0159     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0160     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0161     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0162   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0163     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0164   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0165     C.
0166   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0167     C. DHU¥â¡¼¥É¡Ê¼ý¸¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0168   +. DC 01-22 DHU_MODE_CHNG
0169     BC       (02 0a f8)
0170     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     2
0171     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0172     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0173     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0174     C.
0175   . C. ********************************
0176     C. TI-CMD SET (OPOG STOP/COPY/START)
0177     C. ********************************
0178     C.
0179   . C. NOTICE ¡§ OPOG UPLOAD¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
0180     C.           ¤Þ¤¿¡¢¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¿¼Ç¹Ô¤¦¤³¤È¡£
0181     C.
0182   . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
0183   +. TI 2010-07-22 09:59:00.0
0184     DC 01-B3 DHU_OP_STOP
0185     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0186     C.
0187   +. TI 2010-07-22 09:59:01.0
0188     DC 01-B4 DHU_OP_COPY
0189     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0190     C.
0191   +. TI 2010-07-22 09:59:01.0
0192     DC 01-B5 DHU_OPOG_COPY
0193     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195   +. TI 2010-07-22 10:03:59.5
0196     DC 01-B2 DHU_OP_START
0197     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0198     C.
0199     C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
0200     C.                      ¢¢[HK1_TI_CMD_ENA/DIS]          EQ     ENA
0201     C.                      ¢¢[HK1_TI_CMD_NUM]              EQ     4
0202     C.                      ¢¢[HK1_NEXT_EXEC_PIM]           EQ     DHU
0203     C.                      ¢¢[HK1_NEXT_EXEC_DC]            EQ     0xB3
0204     C.
0205    . C. ****************************
0206     C. TIÎÎ°è¥À¥ó¥×
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.                      ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     07
0213     C.                      ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     2B
0214     C.                      ¢¢[HK1_DMP_BLOCK_NUM]           EQ     3
0215     C.                      ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0216     C.                      ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0217   +. DC 01-22 DHU_MODE_CHNG
0218     BC       (07 0b f8)
0219     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     7
0220     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0221     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0222     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0223     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0224     C.
0225    . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0226     C.                      ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0227     C.
0228    . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0229     C.
0230    . C. DHU¥â¡¼¥É¡Ê¼ý¸¸¥ì¡¼¥È¡Ë¤òÌá¤¹
0231   +. DC 01-22 DHU_MODE_CHNG
0232     BC       (02 0a f8)
0233     C.                      ¢¢[HK1_PKT_FORM_NO]             EQ     2
0234     C.                      ¢¢[HK1_PKT_GEN_TIME]            EQ     0.5S
0235     C.                      ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32K
0236     C.                      ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0237     C.
0238    . C. Stop EIS observation and temporarily disable EIS mode changes
0239     C.
0240     C.
0241     C. ********** Start EIS operation (TI set) **********
0242     C. Execute, after the success of OP upload.
0243     C. Set EIS TI-commands
0244   +. TI 2010-07-22 10:03:30.0
0245     DC 07-FC EIS_MODE_MANU
0246     BC       (21 02)
0247   +. TI 2010-07-22 10:03:40.0
0248     DC 07-FC EIS_MODE_CHG_DIS
0249     BC       (22)
0250    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0251     C. ************ End EIS operation (TI set) ************
0252     C.
0253     C.
0254     C. ********************************
0255     C.  SOT TI command set
0256     C. ********************************
0257     C. Execute, after the success of OP upload.
0258   +. TI 2010-07-22 10:03:16.0
0259     DC 07-F0 MDP_SOT_MODE_STBY
0260     BC       (41)
0261    . C. ------------------------------------
0262     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0263     C. ------------------------------------
0264     C. ************ SOT END ************
0265     C.
0266     C. ************ XRT START ************
0267     C. Execute, after the success of OP upload.
0268   +. TI 2010-07-22 10:03:00.0
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 ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0276     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0277    . S. DC-BC dcbc-402:DCBC
0278     (MDP_known_event)
0279     C.
0280     C.
0281    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0282    . S. DC-BC dcbc-153:DCBC
0283     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0284     C.
0285     C.
0286    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0287     C.
0288    . C. ********** LOS **********
0289     C.
```

```
(a) Spacecraft Operation Procedure (real-commands)

main-484 2010-07-22 12:55:07 114 33 SOLAR-B MAIN //
0001     C.
0002    . C. *********** AOS ***********
0003     C.
0004    . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009    . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ÊËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
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.  FPP DC MODE OFF
0047     C. ********************************
0048     C.
0049    . C. < FPP Decontam Mode Disable >
0050   +. DC 07-F2 FPP_PWR_ON_ENA
0051     BC       (12 02)
0052   +. DC 07-F2 FPP_DE_CONTAM_MODE
0053     BC       (24 03 00)
0054    . C. ------------------------------------
0055     C.  FPP_DE_CONTAM_MODE  = OFF  [ ]
0056     C. ------------------------------------
0057     C.
0058    . C. < Set duties for CCD Op heaters >
0059   +. DC 07-F2 FPP_FG_OPHTR_DUTY
0060     BC       (54 03 00)
0061   +  DC 07-F2 FPP_SP_OPHTR_DUTY
0062     BC       (4c 03 19)
0063    . C. ------------------------------------
0064     C.  FPP_FG_CCDHTR_DC    =  0   [ ]
0065     C.  FPP_SP_CCDHTR_DC    = 25   [ ]
0066     C. ------------------------------------
0067     C.
0068    . C. < Enable SP Heater >
0069   +. DC 07-F2 FPP_PWR_ON_ENA
0070     BC       (12 02)
0071   +. DC 07-F2 FPP_SP_OPHTR_ENA
0072     BC       (48 02)
0073    . C. ------------------------------------
0074     C.  FPP_SPHTR_STAT      > 01   [ ]
0075     C. ------------------------------------
0076     C.
0077    . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0078   +. DC 07-FC EIS_MODE_MANU
0079     BC       (21 02)
0080    . C. Verify EIS in MANUAL mode
0081    . C. Estimated OBSTBL upload time is 12s
0082     C. ********************************
0083     C. EIS START OBSTBL LOAD
0084     C. ********************************
0085    . S. RAM   ram-820:EIS_OBSTBL
0086     ()
0087   +. DC 07-FC EIS_DUMP_OBSTBL
0088     BC       (07 07 07 00 00 70 00)
0089     C.
0090     C. Execute, after the success of OBSTBL upload.
0091     C. Set EIS TI-commands
0092   +. TI 2010-07-22 10:03:50.0
0093     DC 07-FC EIS_MODE_CHG_ENA
0094     BC       (20)
0095    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
```

```
0096     C. ********************************
0097     C. EIS END OBSTBL LOAD
0098     C. ********************************
0099     C.
0100   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0101     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0102   . S. DC-BC dcbc-402:DCBC
0103     (MDP_known_event)
0104     C.
0105     C.
0106   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0107   . S. DC-BC dcbc-153:DCBC
0108     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0109     C.
0110     C.
0111   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0112     C.
0113   . C. *********** LOS ***********
0114     C.
```

```
(a) Spacecraft Operation Procedure (real-commands)

main-485 2010-07-22 12:55:07 214 33 SOLAR-B MAIN //
0001     C.
0002   . C. *********** AOS ***********
0003     C.
0004   . C. ¡ãAOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0005     C.
0006     C. ¥À¥ß¡¼¥³¥Þ¥ó¥ÉÁ÷¿®
0007   +. DC 00-00 NULL_DUMMY_CMD
0008     C.
0009   . C. ***** AOCS : Reload orbital element (send every contact) *****
0010     C.  Ãí¡Ë¤¿¤À¤•µ°Æ»Í×ÁÇ¤Î¥¢¥Ã¥×¥í¡¼¥É¡ËËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿¾ì¹ç¤Ï¡¢À®¸ù¤¹¤ë¤Þ¤ÇÁ÷¿®¤•¤Ê¤¤¤³¤È¡£
0011   +. DC 02-8E AOCU_ORB_UPD
0012     C.
0013     C.
0014   . C. ****************************
0015     C. XÁ÷¿®µ¡ON
0016     C. ****************************
0017     C. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇºÎ»Þ´Ö¤ò¹ÍÎ¸ ¤•¡¢ÉÔÍ×¤ÊXÂÓON¤Ï¹Ô¤Ê¤ï¤Ê¤¤¤³¤È¡£
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.                      ¢¢[HK1_XPA_ON/OFF]              EQ     ON
0025     C.                      ¢¢[HK1_XPA_PWR_HI/LO]           EQ     HI
0026     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     ON
0027     C.                      ¢¢[HK1_XMOD_QPSK/PM]            EQ     QPSK
0028     C.
0029   . C. X¥Ð¥ó¥É¥í¥Ã¥¯¾õÂÖ¤¬°ÂÄê¤•¤¿¤é¡¢°Ê²¼¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ ³«»Ï¡ä
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.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0047   +. DC 06-B3 DR_REP_START
0048   +  DC 01-32 DHU_X_VC4_ON
0049     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT1    (¼Â¹Ô¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°Ää»ß¤•¤¿¸å¡¢¢°Ê²¼¤ò¼Â¹Ô¤¹¤ë¡£
0055     C. ¥¢¥ó¥Æ¥ÈÀÚÂØ¤äÅ•Ä°²óÈò¤¬¶á¤¤¾ì¹ç¤Ï´°Î»¤¹¤ë¤Þ¤ÇÂÔ¤Ä¡£
0056     C.
0057   . C. ***************
0058     C. DR PT2 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ ³«»Ï¡ä
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.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÈÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡ä
0073   +. DC 06-B3 DR_REP_START
0074   +  DC 01-32 DHU_X_VC4_ON
0075     C.                      ¢¢[HK1_REP_PT_1/2]              EQ     PT2    (¼Â¹Ô¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ Ää»ß¡ä
0084   +. DC 06-B4 DR_REP_STOP
0085   +  DC 01-29 DHU_S/X_VC4_OFF
0086     C.                      ¢¢[HK1_REP_STA/STP]             EQ     STOP
0087     C.                      ¢¢[HK1_S_VC4_ON/OFF]            EQ     OFF
0088     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     OFF
0089     C.
0090   . C. ¡ãXÁ÷¿®µ¡OFF¡ä
0091   +. DC 03-85 TCIA_XMOD_OFF
0092     M. WAIT_SEC   1
0093   +  DC 03-B5 TCIA_XPA_OFF
0094     C.                      ¢¢[HK1_XMOD_ON/OFF]             EQ     OFF
0095     C.                      ¢¢[HK1_XPA_ON/OFF]              EQ     OFF
```

```
0096     C.
0097     C.
0098   . C. ********************************
0099     C.  SOT table upload
0100     C. ********************************
0101   . C. < Stop FG table >
0102   +. DC 07-F0 MDP_FG_CTRL_MANU
0103     BC       (51)
0104   . C. ------------------------------------
0105     C.  MDP_FG_CTRL_MODE      = MANU    [ ]
0106     C. ------------------------------------
0107     C.
0108   . C. <Upload FG Observation Table>
0109   . S. RAM   ram-265: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 2010-07-22 10:03:18.0
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.
0131     C. ************ XRT START ************
0132     C.
0133   +. DC 07-F0 MDP_XRT_CTRL_MANU
0134     BC       (c1)
0135   +  DC 07-F0 MDP_XRT_MODE_STBY
0136     BC       (c3)
0137    . C. ----------- Success Verify ?              OK / NG____
0138     C.
0139     C. XRT Obs. Table Upload
0140   . S. RAM   ram-291:MDP_OBS_X
0141     ()
0142     C.
0143   +. DC 07-F0 MDP_DUMP_XRTTBL
0144     BC       (84 07 00 00 00 3a d4)
0145    . C. ----------- Comparison Check ?                        OK / ERR ____
0146     C.
0147     C.
0148   +. DC 07-F0 MDP_XRT_ROI_SET
0149     BC       (cd 01 b1 b1 04 04)
0150   +  DC 07-F0 MDP_XRT_ROI_SET
0151     BC       (cd 02 b1 b1 08 08)
0152   +  DC 07-F0 MDP_XRT_ROI_SET
0153     BC       (cd 03 b1 b1 08 08)
0154   +  DC 07-F0 MDP_XRT_ROI_SET
0155     BC       (cd 04 b1 b1 06 06)
0156   +  DC 07-F0 MDP_XRT_ROI_SET
0157     BC       (cd 06 85 83 06 06)
0158   +  DC 07-F0 MDP_XRT_ROI_SET
0159     BC       (cd 07 80 80 08 08)
0160   +  DC 07-F0 MDP_XRT_ROI_SET
0161     BC       (cd 08 80 60 20 18)
0162   +  DC 07-F0 MDP_XRT_ROI_SET
0163     BC       (cd 09 80 80 20 20)
0164   +  DC 07-F0 MDP_XRT_ROI_SET
0165     BC       (cd 0a 80 80 20 08)
0166   +  DC 07-F0 MDP_XRT_ROI_SET
0167     BC       (cd 0b 80 80 08 20)
0168   +  DC 07-F0 MDP_XRT_ROI_SET
0169     BC       (cd 0c a0 80 18 20)
0170   +  DC 07-F0 MDP_XRT_ROI_SET
0171     BC       (cd 0f 80 80 06 06)
0172   +  DC 07-F0 MDP_XRT_ROI_SET
0173     BC       (cd 10 80 80 08 08)
0174    . C. ---------- Success Verify ?           OK / NG ____
0175     C.
0176   +  DC 07-F0 MDP_XRT_FLD_ENA
0177     BC       (d8)
0178   +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0179     BC       (c8)
0180   +  DC 07-F0 MDP_XRT_ARS_DIS
0181     BC       (d5)
0182   +. DC 07-F0 MDP_XRT_QT_PROG_SET
0183     BC       (c4 11)
0184   +. DC 07-F0 MDP_XRT_FL_PROG_SET
0185     BC       (c5 07)
0186     C.
0187    . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0188     C.
0189   +. DC 07-F0 MDP_XRT_MODE_OBSV
0190     BC       (c2)
0191   +  DC 07-F0 MDP_XRT_CTRL_AUTO
0192     BC       (c0)
0193   +. TI 2010-07-22 10:03:02.0
```

```
0194     DC 07-F0 MDP_XRT_MODE_OBSV
0195     BC       (c2)
0196   . C. ---------- Success Verify ?            OK / NG ____
0197     C.
0198     C. ************ XRT END ***********
0199     C.
0200   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0201     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0202   . S. DC-BC dcbc-402:DCBC
0203     (MDP_known_event)
0204     C.
0205     C.
0206   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0207   . S. DC-BC dcbc-153:DCBC
0208     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0209     C.
0210     C.
0211   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0212     C.
0213   . C. *********** LOS ***********
0214     C.
```

```
*** OP Sequence for XRT ***

2010/07/22  10:13:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  10:13:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/22  10:14:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 04 00 00 00 00
2010/07/22  10:14:16.0  XRT_AEC_RESET_438_OG [0x1b6]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2010/07/22  10:14:18.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/22  10:14:20.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/22  10:14:22.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/22  10:14:24.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/22  10:16:58.0  XRT_QT_PROG_SET_423_OG [0x1a7]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 13
2010/07/22  10:17:00.0  XRT_FL_PROG_SET_405_OG [0x195]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 07
2010/07/22  10:34:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/22  10:35:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/22  11:44:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  12:12:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/22  12:13:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/22  13:22:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  13:51:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/22  13:52:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/22  15:01:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  15:30:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 ac 00 00 00
2010/07/22  15:41:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  15:41:56.0  XRT_FOCUS_POSITION_426_OG [0x1aa]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/22  15:42:16.0  XRT_QT_PROG_SET_432_OG [0x1b0]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2010/07/22  15:42:18.0  XRT_ARS_DIS_404_OG [0x194]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/22  15:44:56.0  XRT_FLD_DIS_427_OG [0x1ab]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/22  15:44:58.0  XRT_FLRCTRL_DIS_428_OG [0x1ac]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/22  15:45:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/22  17:29:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  17:29:56.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/22  17:30:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 00 00 00 00
2010/07/22  17:30:16.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/22  17:30:18.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/22  17:30:20.0  XRT_ARS_DIS_404_OG [0x194]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/22  17:32:58.0  XRT_QT_PROG_SET_407_OG [0x197]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2010/07/22  17:33:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/22  18:18:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  18:59:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  19:00:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                AOCU_NM              5 02-76 00 00 00 54 00
2010/07/22  19:11:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  19:11:56.0  XRT_FOCUS_POSITION_426_OG [0x1aa]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/22  19:12:16.0  XRT_QT_PROG_SET_431_OG [0x1af]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2010/07/22  19:12:18.0  XRT_ARS_DIS_404_OG [0x194]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/22  19:14:56.0  XRT_FLD_DIS_427_OG [0x1ab]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/22  19:14:58.0  XRT_FLRCTRL_DIS_428_OG [0x1ac]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/22  19:15:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/22  20:59:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  20:59:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
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2010/07/22  21:00:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM              5 02-76 02 00 00 00 00
2010/07/22  21:00:16.0  XRT_FLD_RESET_449_OG [0x1c1]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/22  21:00:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/22  21:00:20.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/22  21:00:22.0  XRT_AEC_RESET_441_OG [0x1b9]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2010/07/22  21:00:24.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/22  21:02:58.0  XRT_QT_PROG_SET_439_OG [0x1b7]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2010/07/22  21:03:00.0  XRT_FL_PROG_SET_405_OG [0x195]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 07
2010/07/22  21:03:02.5  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/22  21:35:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  22:15:01.0  XRT_Custom_418_OG [0x1a2]
2010/07/22  22:16:01.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/22  23:13:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/22  23:43:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/22  23:44:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  00:52:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  01:20:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  01:21:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  01:59:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  01:59:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/23  02:00:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/23  02:00:18.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/23  02:00:20.0  XRT_AEC_RESET_441_OG [0x1b9]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2010/07/23  02:00:22.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/23  02:02:56.0  XRT_QT_PROG_SET_422_OG [0x1a6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2010/07/23  02:02:58.0  XRT_FL_PROG_SET_405_OG [0x195]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 07
2010/07/23  02:03:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  02:29:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  02:58:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  02:59:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  03:57:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  04:37:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  04:38:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  05:38:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  06:15:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  06:16:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  06:19:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  06:19:56.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/23  06:20:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 00 00 00 00
2010/07/23  06:20:16.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/23  06:20:18.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/23  06:20:20.0  XRT_ARS_DIS_404_OG [0x194]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/23  06:22:58.0  XRT_QT_PROG_SET_407_OG [0x197]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2010/07/23  06:23:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  06:29:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  06:29:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/23  06:30:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM              5 02-76 02 00 00 00 00
2010/07/23  06:30:16.0  XRT_FLD_RESET_449_OG [0x1c1]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/23  06:30:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/23  06:30:20.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
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                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/23  06:30:22.0  XRT_ARS_DIS_420_OG [0x1a4]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/23  06:32:56.0  XRT_QT_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2010/07/23  06:32:58.0  XRT_FL_PROG_SET_405_OG [0x195]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 07
2010/07/23  06:33:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  07:18:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  07:54:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  07:55:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  08:13:00.0  XRT_PREFLR_STRT_447_OG [0x1bf]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2010/07/23  08:14:00.0  XRT_PREFLR_STOP_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2010/07/23  08:15:00.0  XRT_PREFLR_STRT_414_OG [0x19e]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2010/07/23  08:20:00.0  XRT_PREFLR_STOP_410_OG [0x19a]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2010/07/23  08:58:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  09:32:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  09:33:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  10:40:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  11:11:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  11:12:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  12:21:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  12:49:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  12:50:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  14:00:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  14:35:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  14:36:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  15:38:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  16:24:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  16:25:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  17:17:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  18:00:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  18:00:56.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/23  18:01:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2010/07/23  18:01:16.0  XRT_FLD_DIS_402_OG [0x192]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/23  18:01:18.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/23  18:01:20.0  XRT_ARS_DIS_404_OG [0x194]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/23  18:03:58.0  XRT_QT_PROG_SET_407_OG [0x197]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2010/07/23  18:04:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  18:10:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  18:10:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/23  18:11:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                        AOCU_NM              5 02-76 02 00 00 00 00
2010/07/23  18:11:16.0  XRT_FLD_RESET_449_OG [0x1c1]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/23  18:11:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/23  18:11:20.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/23  18:11:22.0  XRT_ARS_DIS_420_OG [0x1a4]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/23  18:13:56.0  XRT_QT_PROG_SET_422_OG [0x1a6]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2010/07/23  18:13:58.0  XRT_FL_PROG_SET_405_OG [0x195]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 07
2010/07/23  18:14:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  18:55:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  19:38:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  19:39:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  20:34:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  21:15:30.0  XRT_Custom_418_OG [0x1a2]
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2010/07/23  21:16:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  22:12:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/23  22:51:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/23  22:52:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/23  23:51:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  00:19:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/24  00:20:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/24  01:29:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  01:57:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/24  01:58:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/24  03:05:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  03:36:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/24  03:37:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/24  04:35:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  05:14:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/24  05:15:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/24  05:47:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  05:47:56.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2010/07/24  05:48:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 00 00 00 00
2010/07/24  05:48:16.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2010/07/24  05:48:18.0  XRT_FLRCTRL_DIS_403_OG [0x193]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2010/07/24  05:48:20.0  XRT_ARS_DIS_404_OG [0x194]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/24  05:50:58.0  XRT_QT_PROG_SET_407_OG [0x197]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2010/07/24  05:51:00.5  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/24  05:57:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  05:57:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2010/07/24  05:58:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM              5 02-76 02 00 00 00 00
2010/07/24  05:58:16.0  XRT_FLD_RESET_449_OG [0x1c1]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2010/07/24  05:58:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2010/07/24  05:58:20.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2010/07/24  05:58:22.0  XRT_ARS_DIS_420_OG [0x1a4]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2010/07/24  06:00:56.0  XRT_QT_PROG_SET_422_OG [0x1a6]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2010/07/24  06:00:58.0  XRT_FL_PROG_SET_405_OG [0x195]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 07
2010/07/24  06:01:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/24  06:16:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  06:53:00.0  XRT_Custom_418_OG [0x1a2]
2010/07/24  06:54:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/24  07:56:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  08:31:30.0  XRT_Custom_418_OG [0x1a2]
2010/07/24  08:32:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2010/07/24  09:36:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2010/07/24  09:38:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 00 00 00 00
```