XRT Timeline to be uploaded on 2012/05/15

Period: 2012/05/15 09:15:00 - 2012/06/19 12:00:00

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

XOB #18E9: AR Standard-B(Morphology) with PFB, FW1=Open, Ti/Poly, 384x384 at 1064 1048, 12sec-cad

Term	Pointing (x, y)	Comment
05/15 09:28:00 - 05/15 17:08:30	Track (739.4, 146.6) @ 05/15 09:25:00	# OP start + 10min (AR11476)
05/15 22:42:30 - 05/15 23:42:30	Track (804.9, 141.7) @ 05/15 22:03:30	AR11476
05/17 05:03:00 - 05/17 05:59:54	Fixed (880.0, 125.0)	AR11476
05/17 06:13:00 - 05/17 10:06:00	Fixed (880.0, 125.0)	# AR11476

PROG= 14 Inf.-time(s)
- **Subr= 2 1-time(s) 2.0sec**
  - **Seqn= 19 1-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	63ms	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec

  - **Seqn= 41 4-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 87 200-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	6.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	6.0sec

XOB #175D: Synoptic Q95 2x2 - Al/mesh(16/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Ti-poly(33/2048) + G-band(16)

Term	Pointing (x, y)	Comment
05/15 18:00:30 - 05/15 18:03:24	Fixed (0.0, 0.0)	synoptic, shifted -6.5 min
05/17 06:03:00 - 05/17 06:09:54	Fixed (0.0, 0.0)	synoptic

PROG= 15 1-time(s)
- **Subr= 1 1-time(s) 12.0sec**
  - **Seqn= 7 1-time(s) 4.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 34 1-time(s) 2.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
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= 8 1-time(s) 4.0sec**

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

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

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

Term	Pointing (x, y)	Comment
05/15 18:18:30 - 05/15 20:03:24	Fixed (0.0, 945.0)	# Co-alignment (N-limb)

PROG= 08 1-time(s)
- **Subr= 1 1-time(s) 360.0sec**
  - **Seqn= 21 24-time(s) 300.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	2048x1536 (1024, 768)	Q=90	0	0	2.0sec

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

Term	Pointing (x, y)	Comment
05/15 20:18:30 - 05/15 22:03:24	Fixed (-945.0, 0.0)	Co-alignment (E-limb)

PROG= 18 1-time(s)
- **Subr= 1 1-time(s) 360.0sec**
  - **Seqn= 22 15-time(s) 480.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	16ms	Obs	2x2	1536x2048 (1280, 1024)	Q=90	0	0	2.0sec

XOB #1778: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 1st Quadrant - Al/mesh, Ti/Poly-long

Term	Pointing (x, y)	Comment
05/17 04:13:00 - 05/17 04:19:54	Fixed (-528.4, -528.4)	XRT 4 pointings after bakeout (1/4)

PROG= 17 1-time(s)
- **Subr= 1 1-time(s) 12.0sec**
  - **Seqn= 38 1-time(s) 12.0sec**

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (1536, 1536)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (1536, 1536)	Q=98	0	0	2.0sec

- **Subr= 2 1-time(s) 2.0sec**

└ **Seqn= 93 2-time(s) 2.0sec**

Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8.00s	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 #1779: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 2nd Quadrant - Al/mesh,Ti/Poly -long

Term	Pointing (x, y)	Comment
05/17 04:23:00 - 05/17 04:29:54	Fixed (528.4, -528.4)	XRT 4 pointings after bakeout (2/4)

PROG= 20 1-time(s)

Subr= 1 1-time(s) 12.0sec

Seqn= 36 1-time(s) 12.0sec

Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (512, 1536)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (512, 1536)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 93 2-time(s) 2.0sec

Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8.00s	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 #177A: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 3rd Quadrant- Al/mesh, Ti/Poly-long

Term	Pointing (x, y)	Comment
05/17 04:33:00 - 05/17 04:39:54	Fixed (528.4, 528.4)	XRT 4 pointings after bakeout (3/4)

PROG= 03 1-time(s)

Subr= 1 1-time(s) 12.0sec

Seqn= 39 1-time(s) 12.0sec

Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (512, 512)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (512, 512)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (512, 512)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (512, 512)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 93 2-time(s) 2.0sec

Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8.00s	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 #177B: CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - Q90 - 4th Quadrant - Al/mesh, Ti/Poly-long

Term	Pointing (x, y)	Comment
05/17 04:43:00 - 05/17 04:59:54	Fixed (-528.4, 528.4)	XRT 4 pointings after bakeout (4/4)

PROG= 05 1-time(s)

Subr= 1 1-time(s) 12.0sec

Seqn= 40 1-time(s) 12.0sec

Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (1536, 512)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	1024x1024 (1536, 512)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	44ms	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 93 2-time(s) 2.0sec

Open/Al-mesh	Open/Ti-poly	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	8.00s	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

* * * * * **Flare mode** * * * * *

XOB #18E7: Flare obs. dynamics - Ti_poly high cadence + context (thick-Al-384x384)-15 loops

Term	Pointing (x, y)	Comment
05/15 09:28:00 - 05/15 17:08:30	Track (739.4, 146.6) @ 05/15 09:25:00	# OP start + 10min (AR11476)
05/15 22:42:30 - 05/15 23:42:30	Track (804.9, 141.7) @ 05/15 22:03:30	AR11476
05/17 05:03:00 - 05/17 05:59:54	Fixed (880.0, 125.0)	AR11476
05/17 06:13:00 - 05/17 10:06:00	Fixed (880.0, 125.0)	# AR11476

PROG= 02 15-time(s)

Subr= 1 45-time(s) 10.0sec

Seqn= 92 1-time(s) 2.0sec

Open/Ti-poly	Open/thick-Al	close	Safe	Norm	4ms	Obs	1x1	384x384 (1024, 1024)	DPCM	2	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Norm	4ms	Obs	1x1	384x384 (1024, 1024)	DPCM	3	0	2.0sec

Subr= 2 1-time(s) 10.0sec

Seqn= 54 1-time(s) 2.0sec

Open/thick-Al	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	DPCM	2	0	2.0sec
Open/thick-Al	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1024, 1024)	DPCM	3	0	2.0sec

Seqn= 79 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
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval

✲ ✲ ✲ ✲ ✲ Active Region Search ✲ ✲ ✲ ✲ ✲

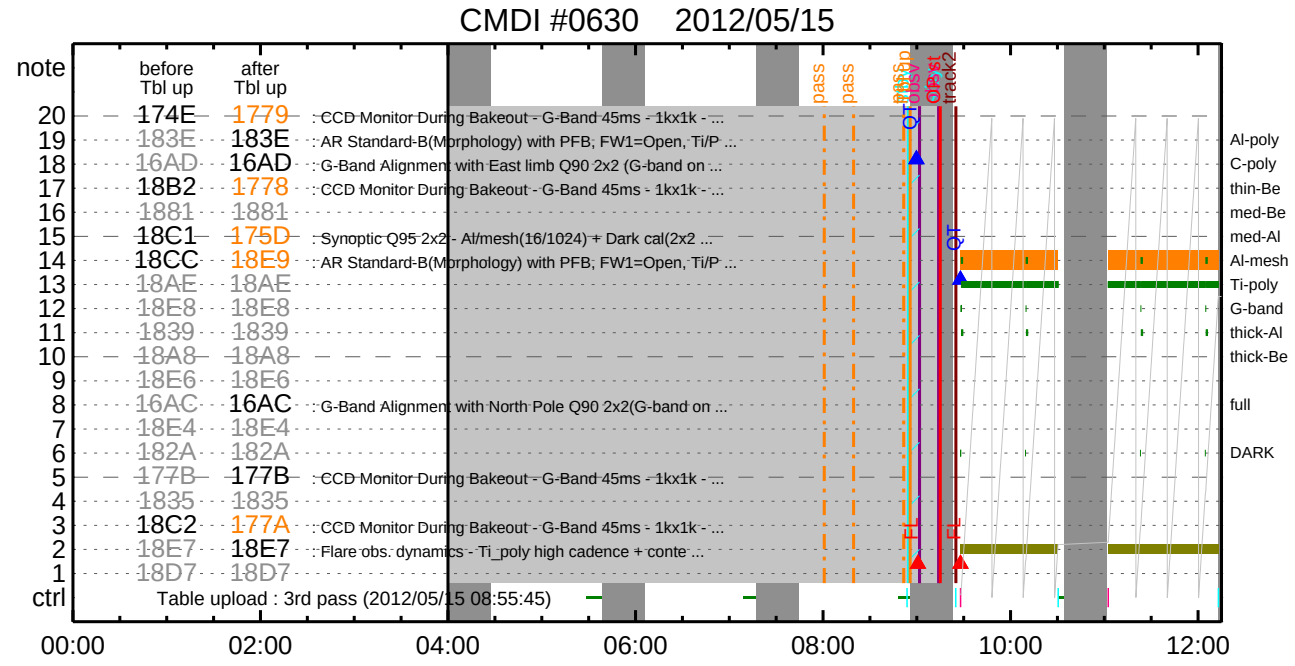
NOT USED

✲ ✲ ✲ ✲ ✲ Flare Detection ✲ ✲ ✲ ✲ ✲

FLD Patrol

Term	Pointing (x, y)	Comment
05/15 22:42:16 - 05/17 04:12:54	Track (804.9, 141.7) @ 05/15 22:03:30	AR11476
05/17 05:02:46 - 05/17 06:00:16	Fixed (880.0, 125.0)	AR11476
05/17 06:12:46 - 06/19 12:00:00	Fixed (880.0, 125.0)	# AR11476

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 #0630 2012/05/15
note
before Tbl up
after Tbl up
20 174E 1779 : CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - ...
19 183E 183E : AR Standard-B(Morphology) with PFB, FW1=Open, Ti/P ...
18 16AD 16AD : G-Band Alignment with East limb Q90 2x2 (G-band on ...
17 18B2 1778 : CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - ...
16 1881 1881
15 18C1 175D : Synoptic Q95 2x2 - Al/mesh(16/1024) + Dark cal(2x2 ...
14 18CC 18E9 : AR Standard-B(Morphology) with PFB, FW1=Open, Ti/P ...
13 18AE 18AE
12 18E8 18E8
11 1839 1839
10 18A8 18A8
9 18E6 18E6
8 16AC 16AC : G-Band Alignment with North Pole Q90 2x2(G-band on ...
7 18E4 18E4
6 182A 182A
5 177B 177B : CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - ...
4 1835 1835
3 18C2 177A : CCD Monitor During Bakeout - G-Band 45ms - 1kx1k - ...
2 18E7 18E7 : Flare obs. dynamics - Ti_poly high cadence + conte ...
1 18D7 18D7
ctrl Table upload : 3rd pass (2012/05/15 08:55:45)
pass
pass
QT
FL
QT
FL
track2
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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02:00
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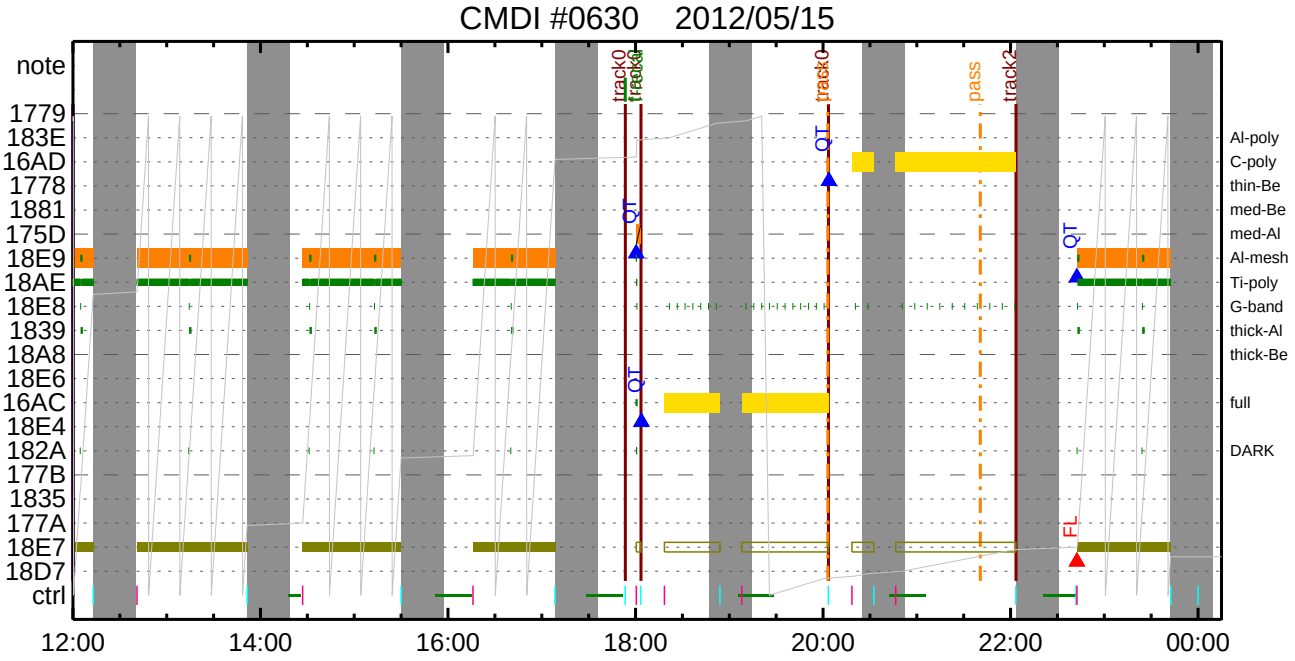
12:00


CMDI #0630 2012/05/15
note
1779
183E
16AD
1778
1881
175D
18E9
18AE
18E8
1839
18A8
18E6
16AC
18E4
182A
177B
1835
177A
18E7
18D7
ctrl
track0
track0
track0
pass
track2
QT
QT
QT
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
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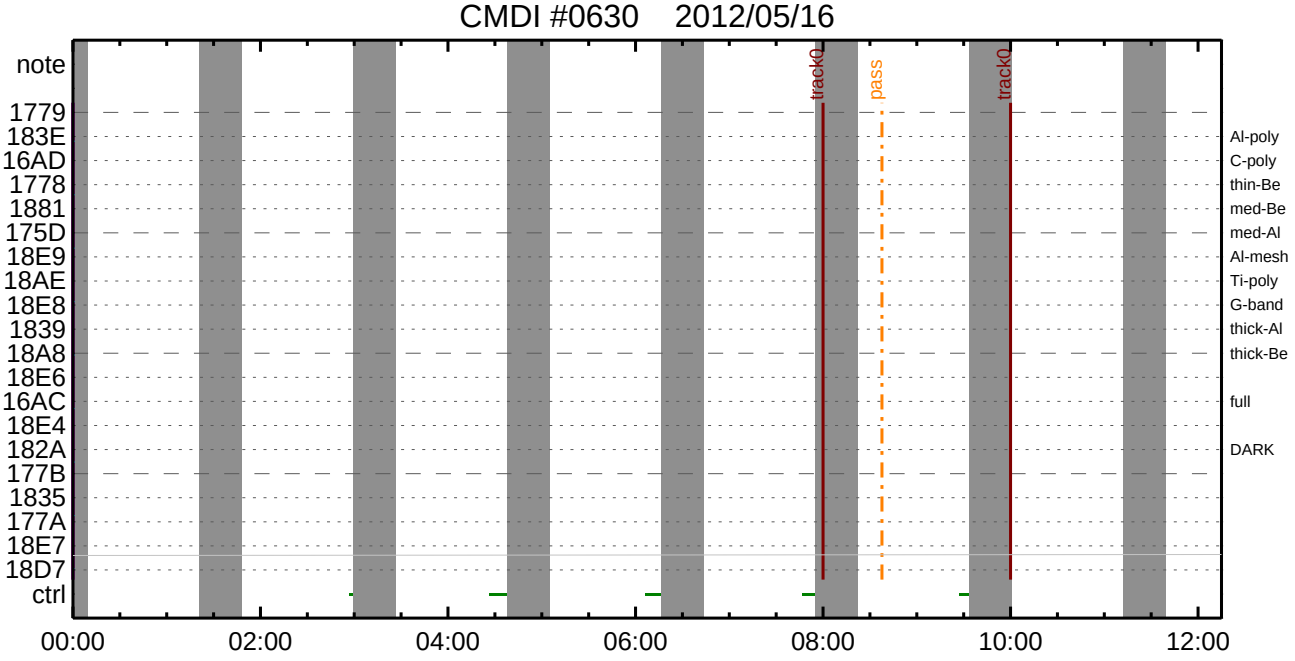
CMDI #0630 2012/05/16
note
1779
183E
16AD
1778
1881
175D
18E9
18AE
18E8
1839
18A8
18E6
16AC
18E4
182A
177B
1835
177A
18E7
18D7
ctrl
track0
pass
track0
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
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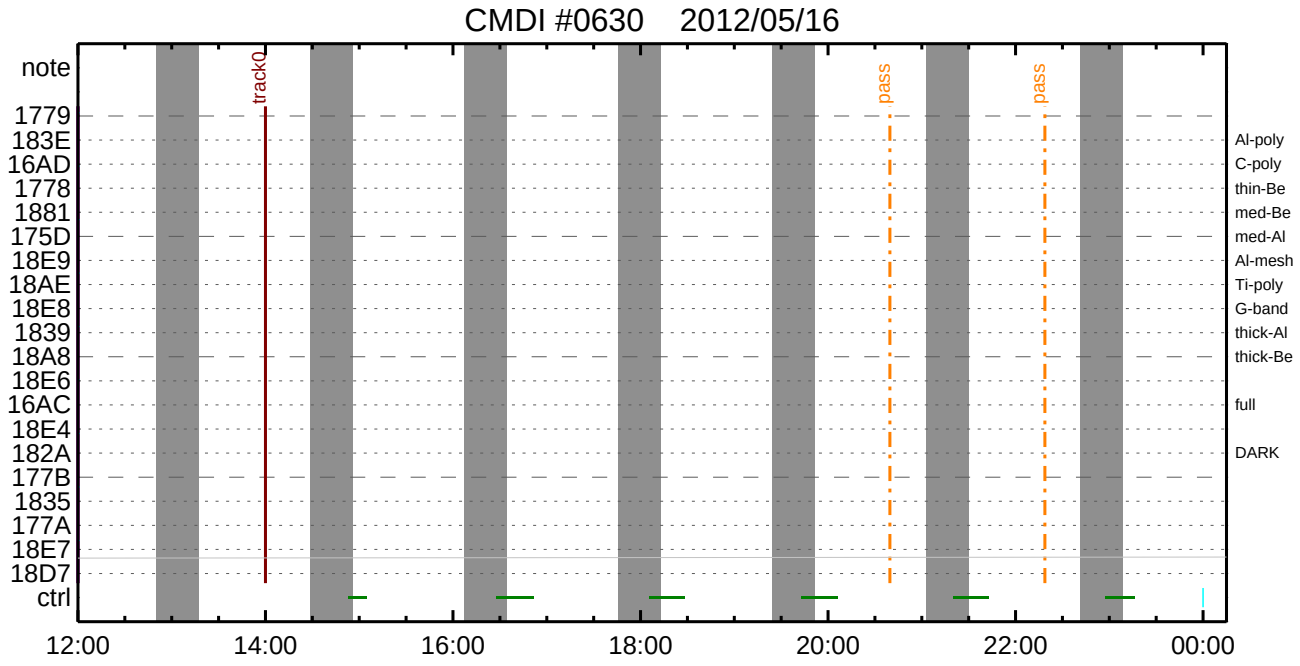
CMDI #0630 2012/05/16
note
1779
183E
16AD
1778
1881
175D
18E9
18AE
18E8
1839
18A8
18E6
16AC
18E4
182A
177B
1835
177A
18E7
18D7
ctrl
track0
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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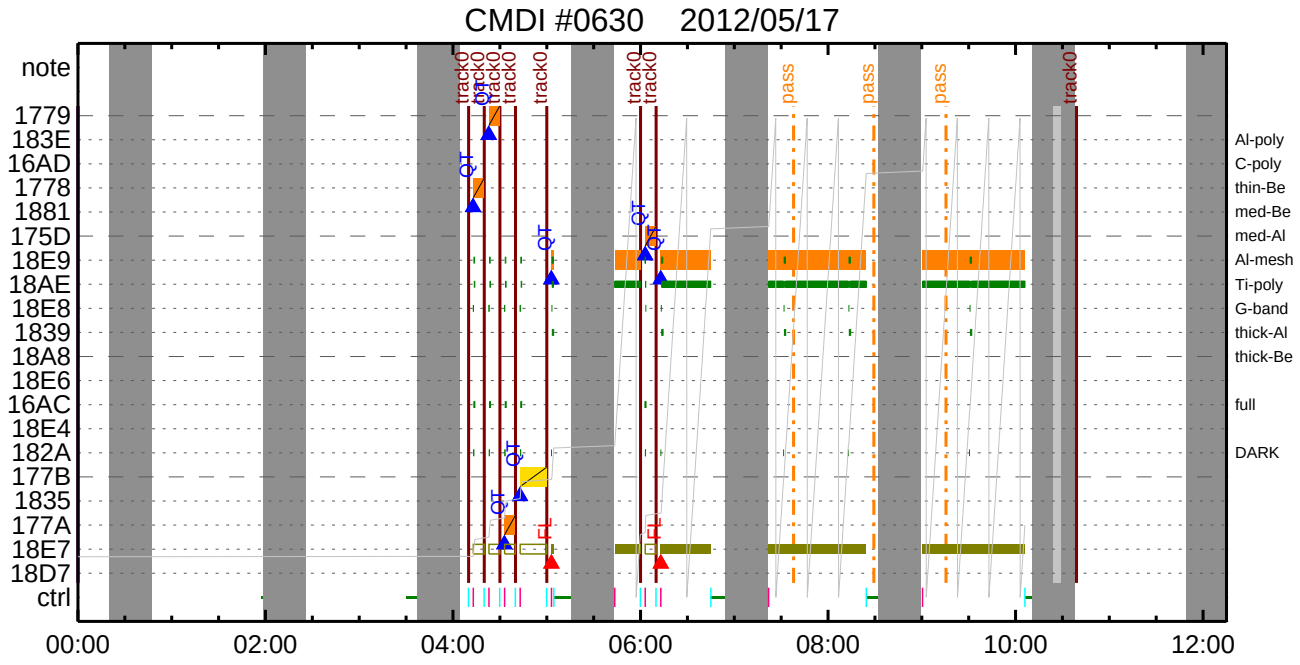
CMDI #0630 2012/05/17
note
1779
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18AE
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182A
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177A
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ctrl
track0
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pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
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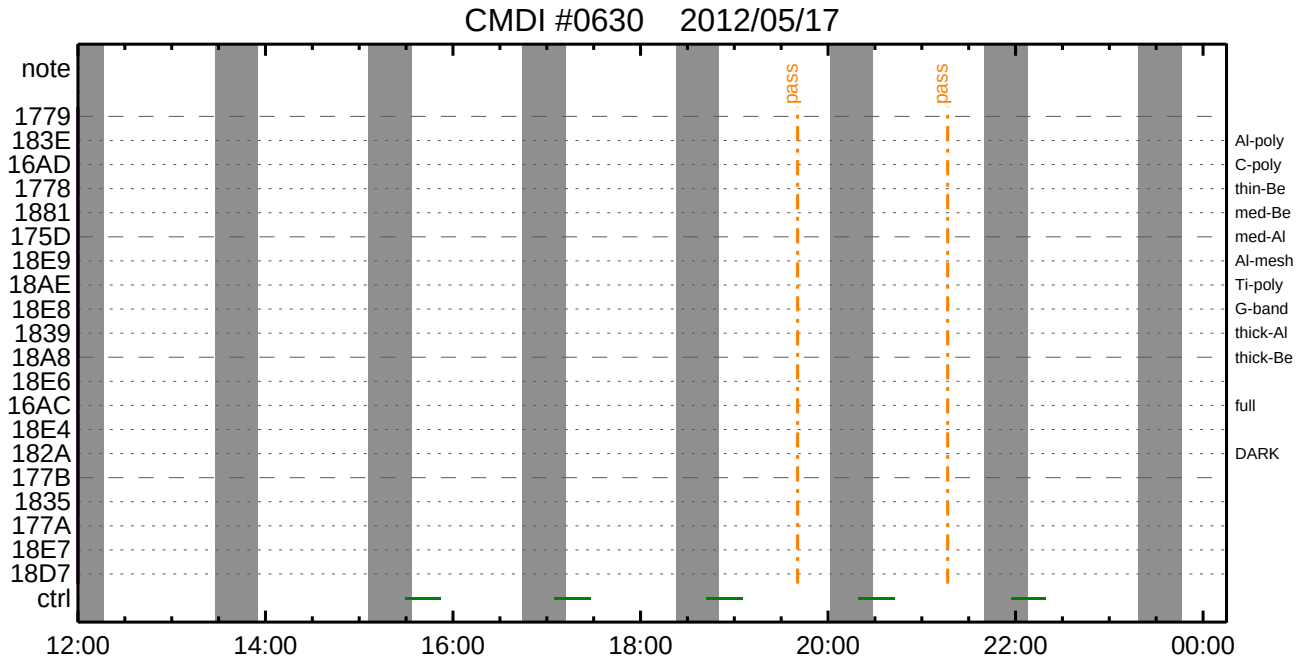
CMDI #0630 2012/05/17
note
1779
183E
16AD
1778
1881
175D
18E9
18AE
18E8
1839
18A8
18E6
16AC
18E4
182A
177B
1835
177A
18E7
18D7
ctrl
pass
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
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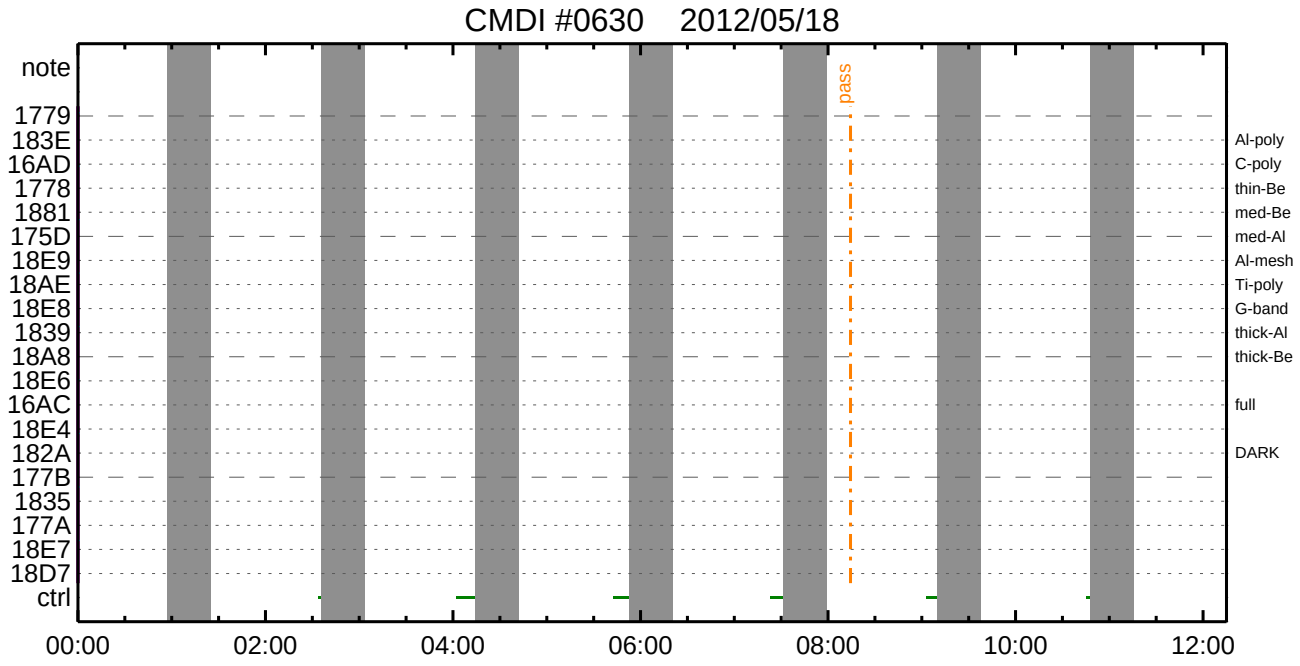
CMDI #0630 2012/05/18
note
1779
183E
16AD
1778
1881
175D
18E9
18AE
18E8
1839
18A8
18E6
16AC
18E4
182A
177B
1835
177A
18E7
18D7
ctrl
pass
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
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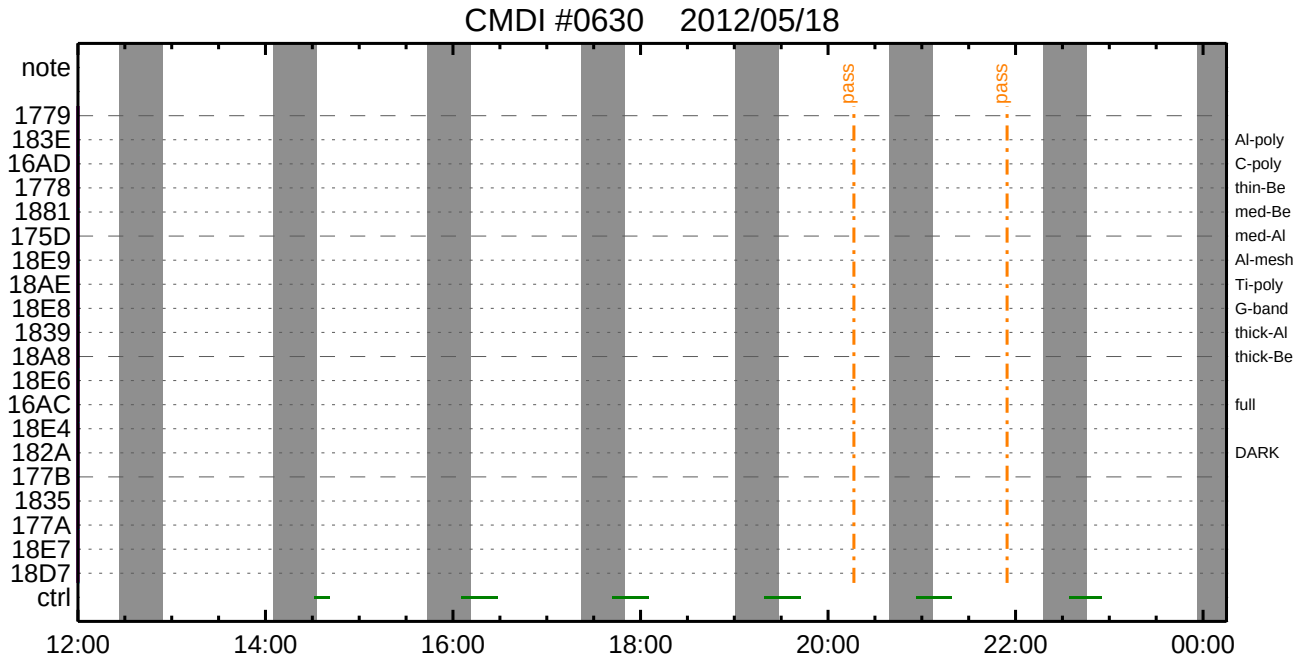
CMDI #0630 2012/05/18
note
1779
183E
16AD
1778
1881
175D
18E9
18AE
18E8
1839
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Al-poly
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thin-Be
med-Be
med-Al
Al-mesh
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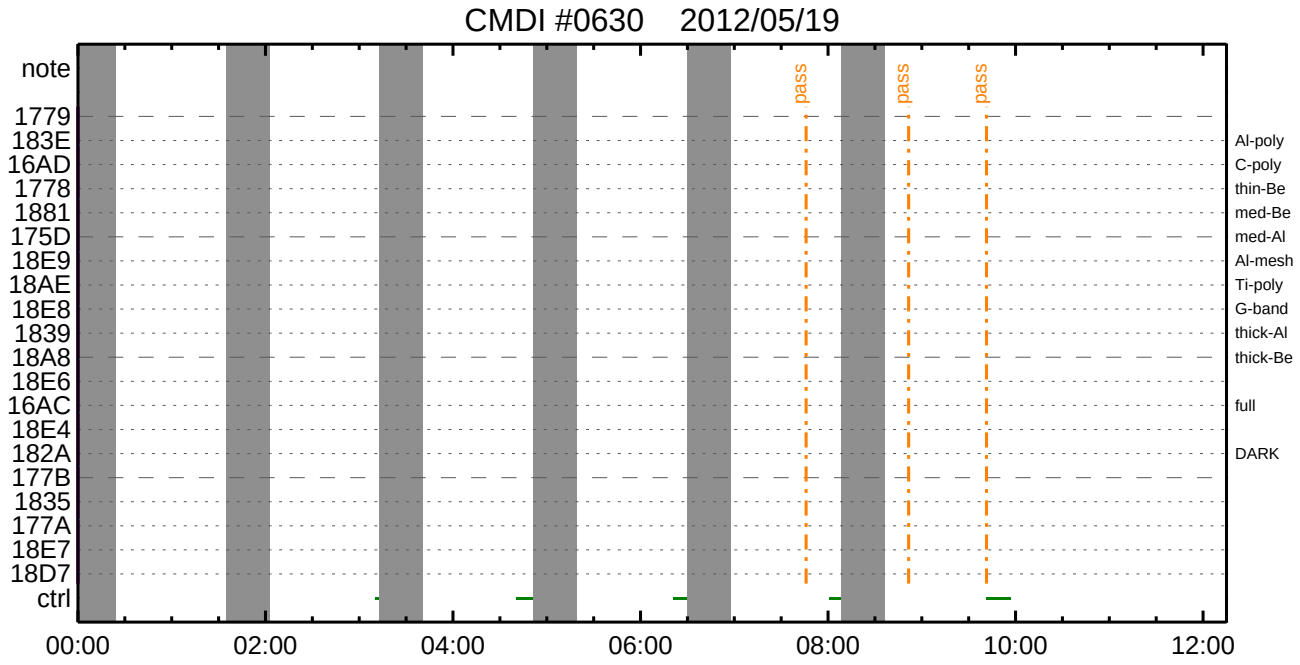
CMDI #0630 2012/05/19
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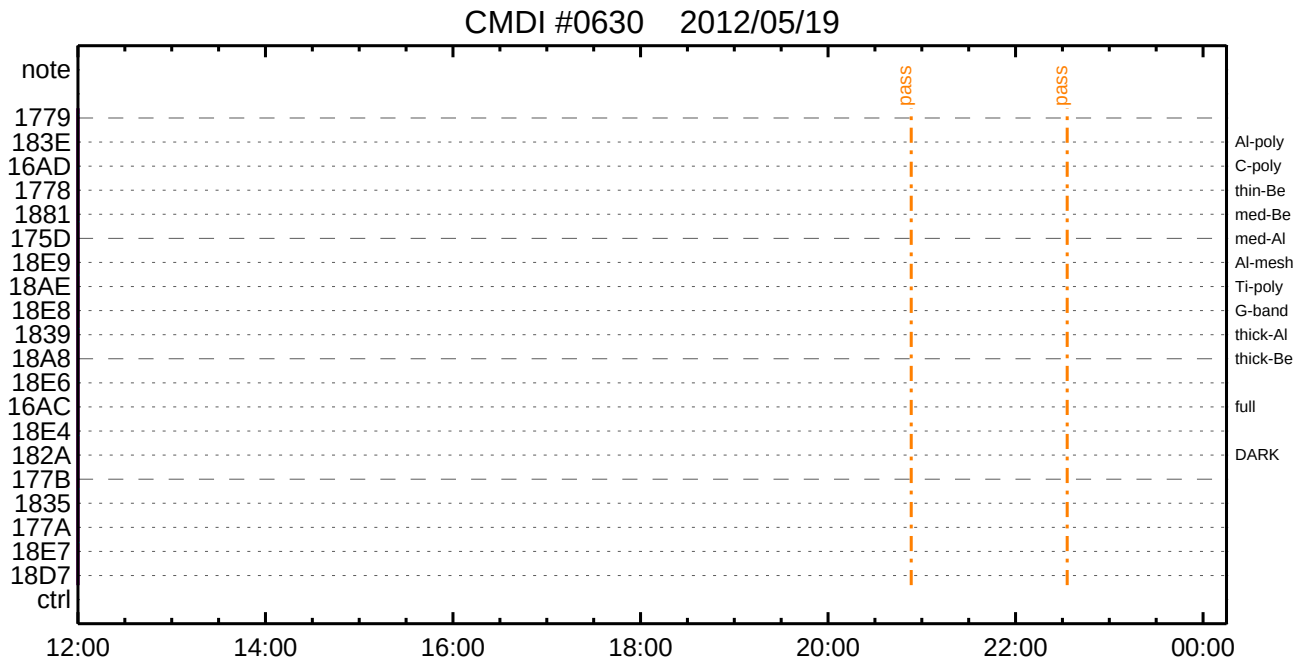
CMDI #0630 2012/05/19
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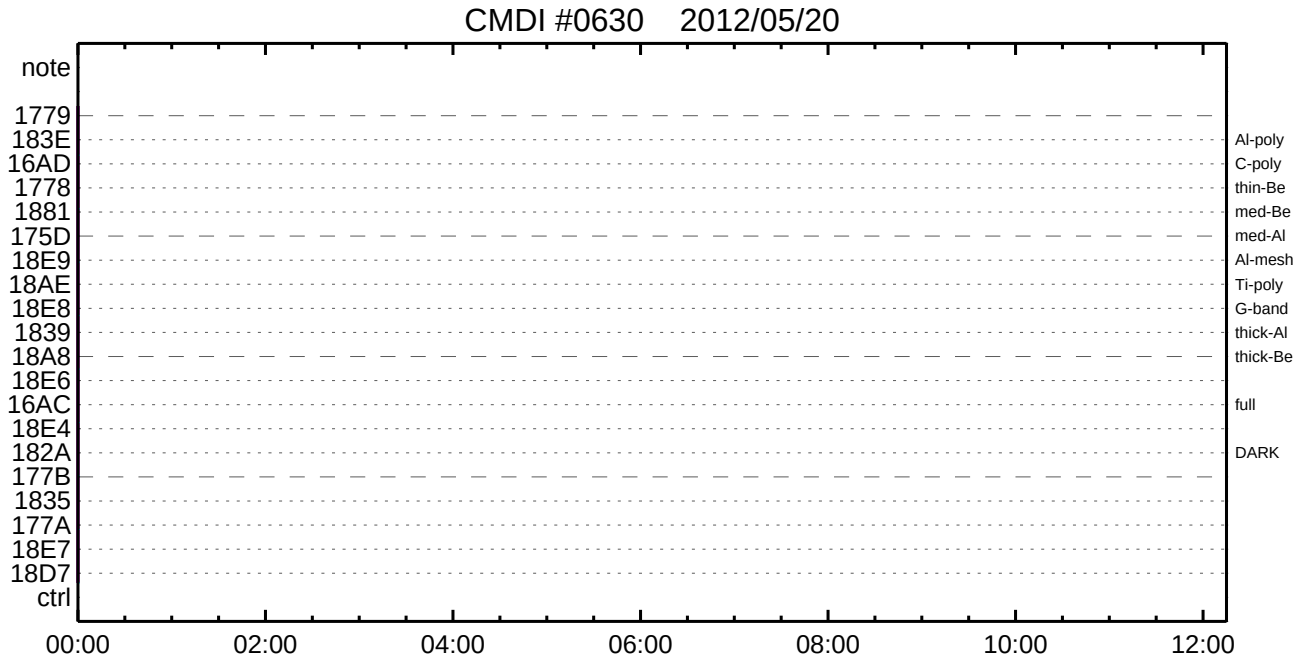
CMDI #0630 2012/05/20
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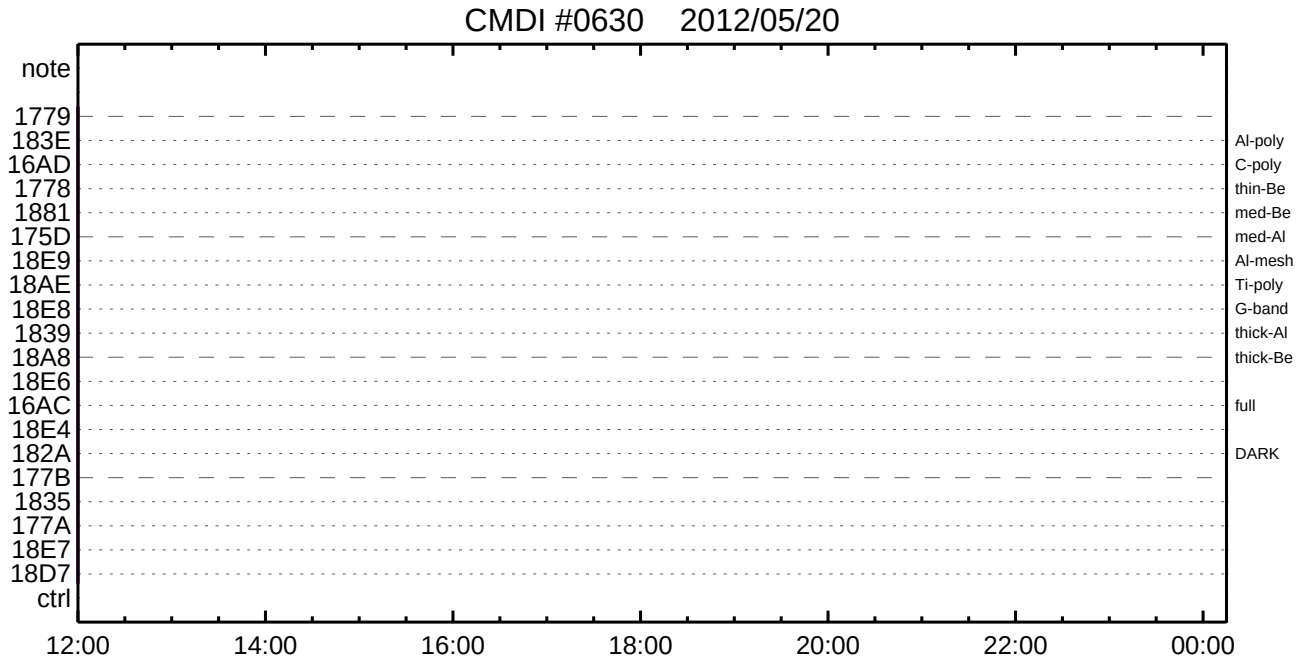
CMDI #0630 2012/05/20
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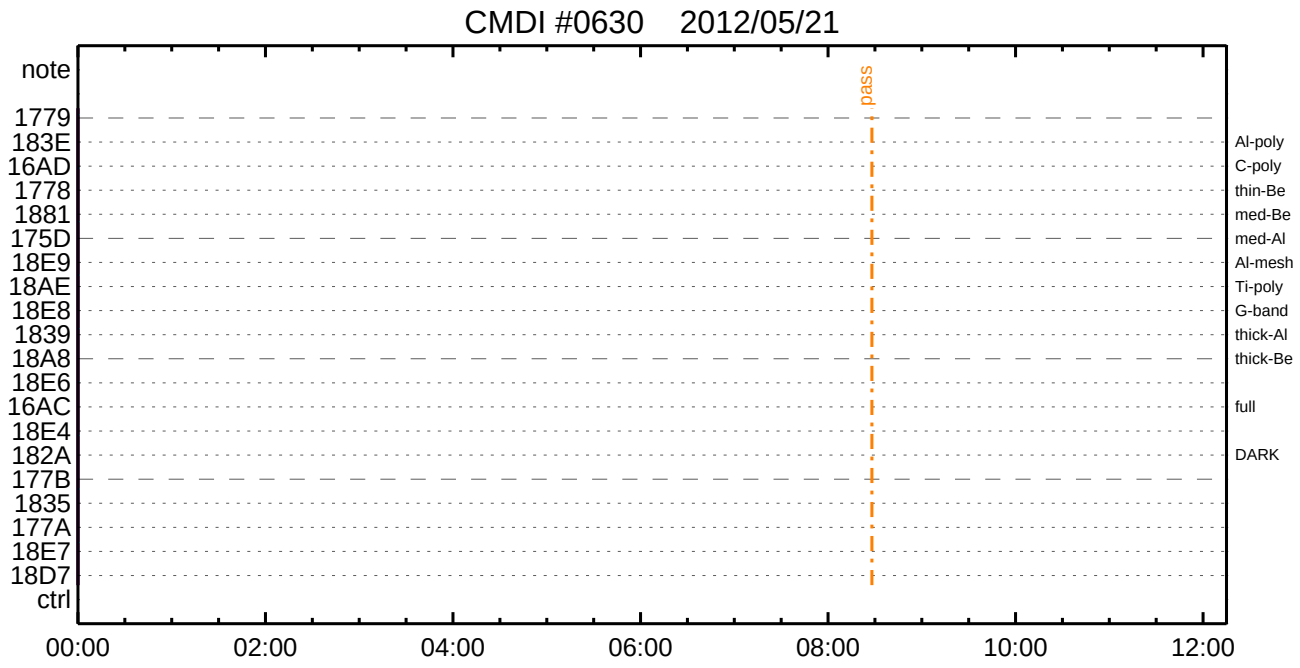
CMDI #0630 2012/05/21
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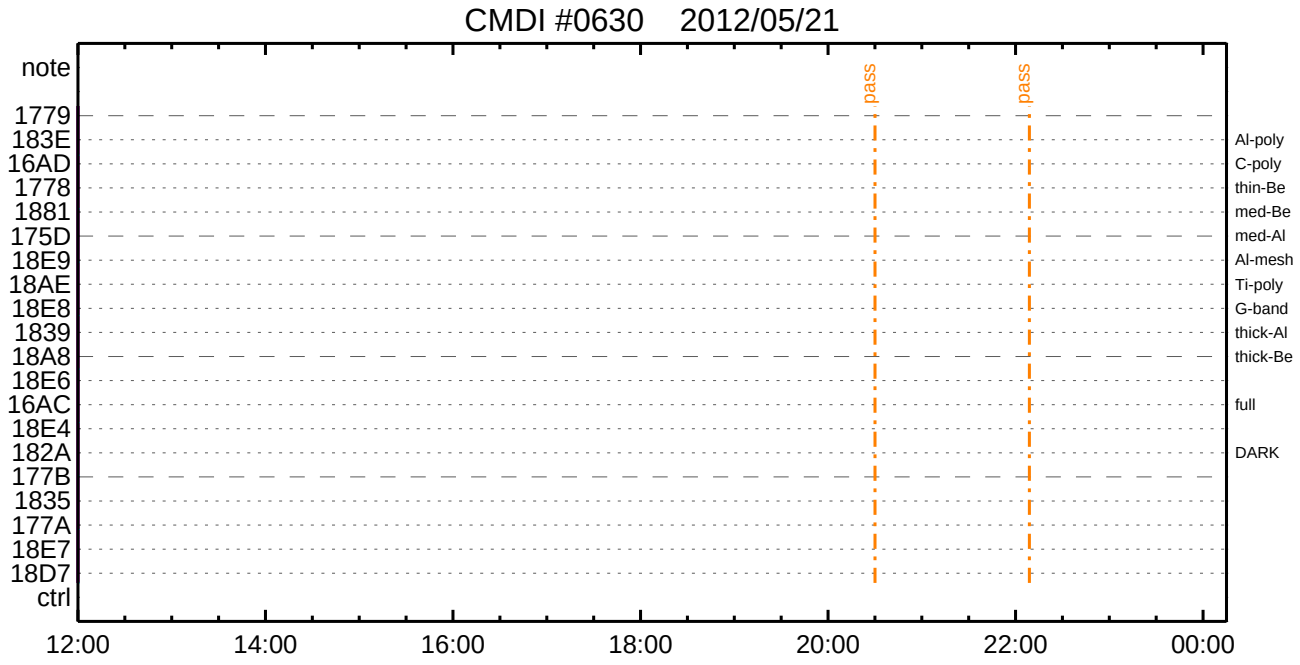
CMDI #0630 2012/05/21
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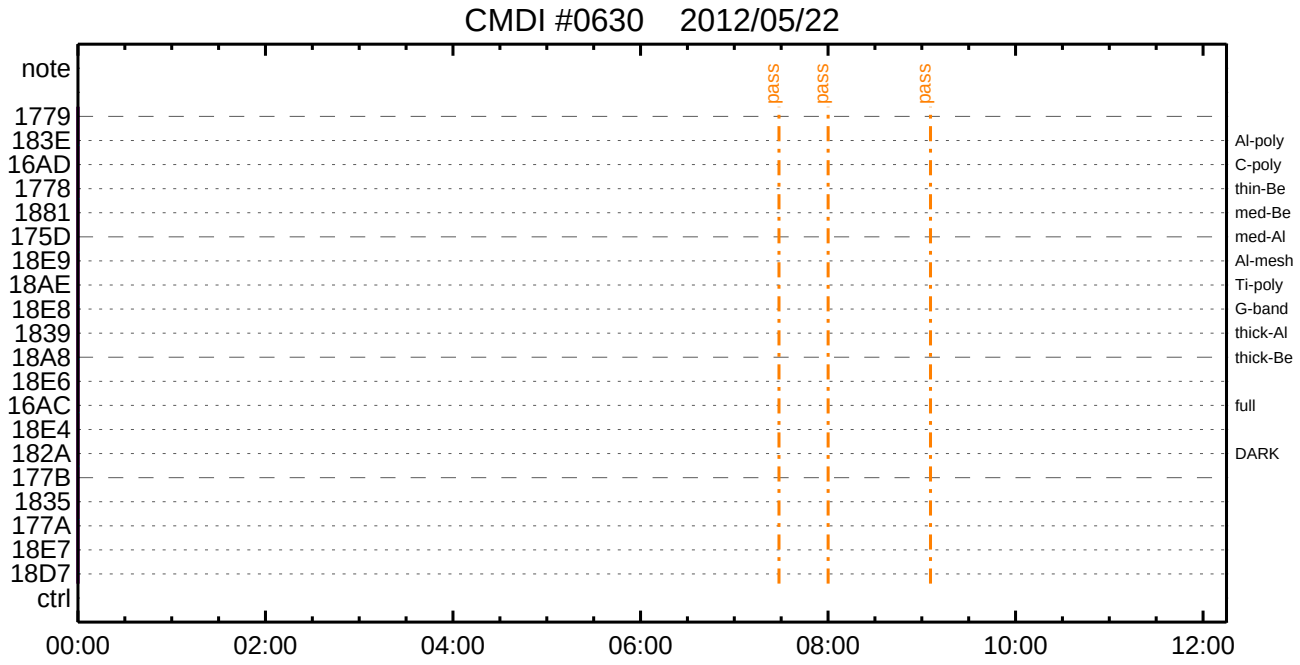
CMDI #0630 2012/05/22
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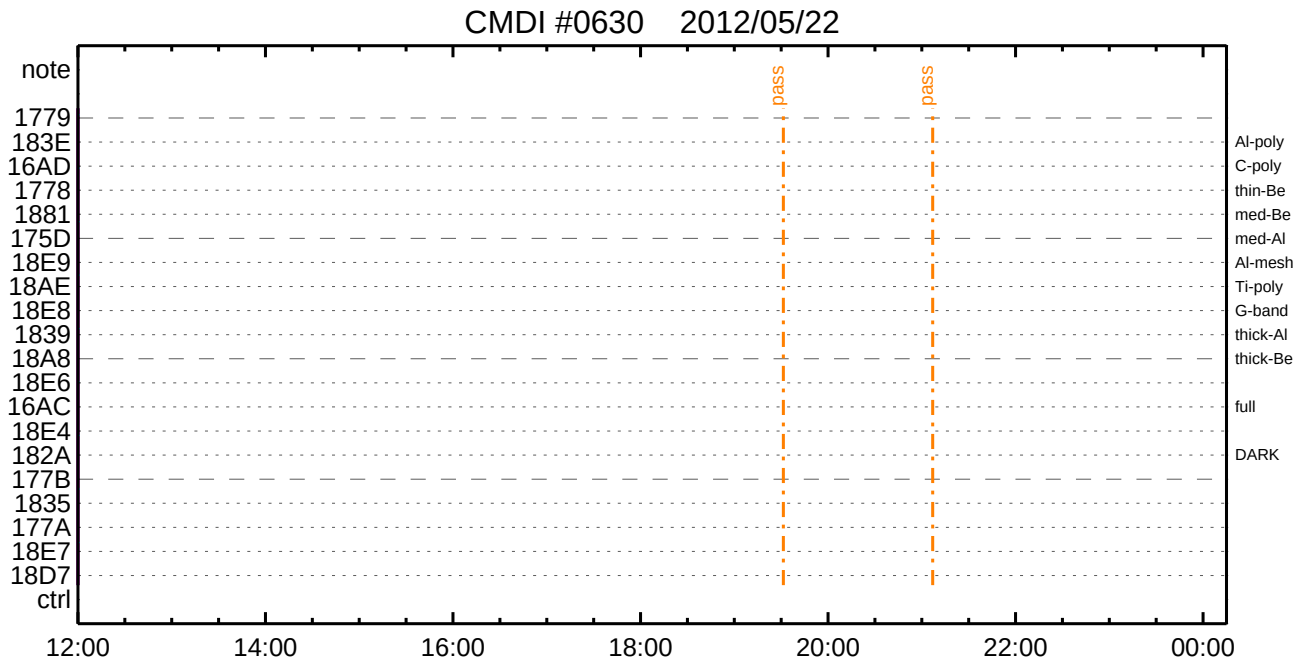
CMDI #0630 2012/05/22
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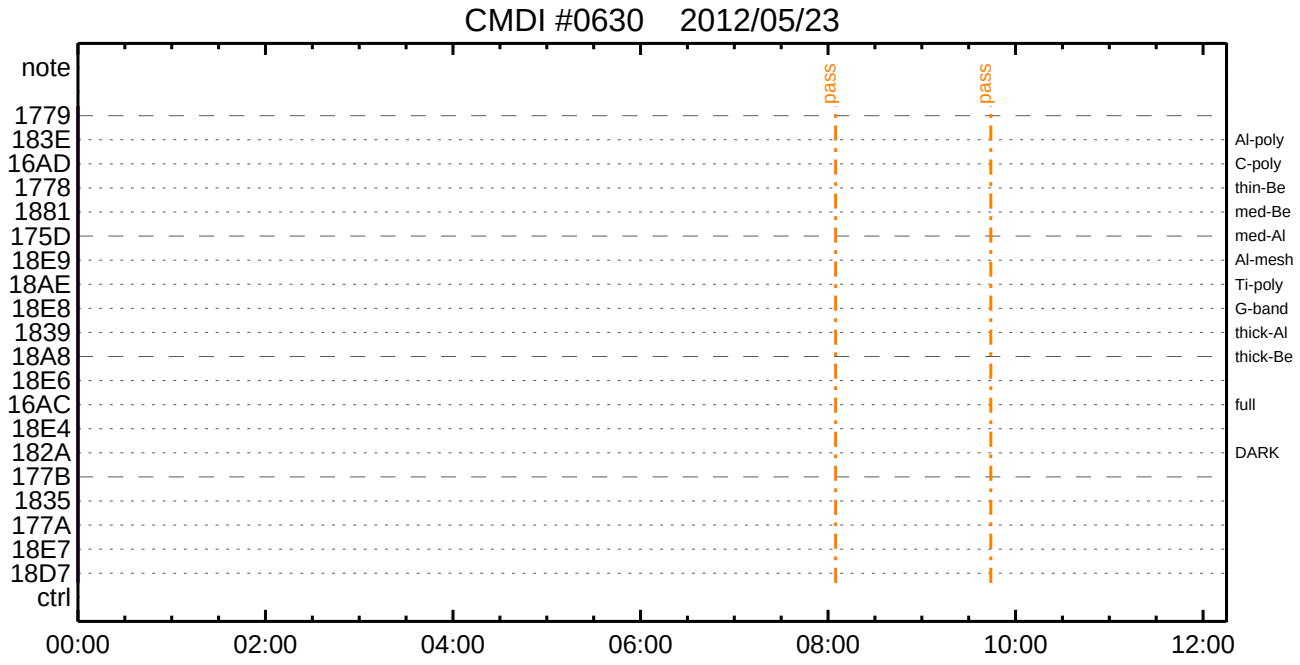
CMDI #0630 2012/05/23
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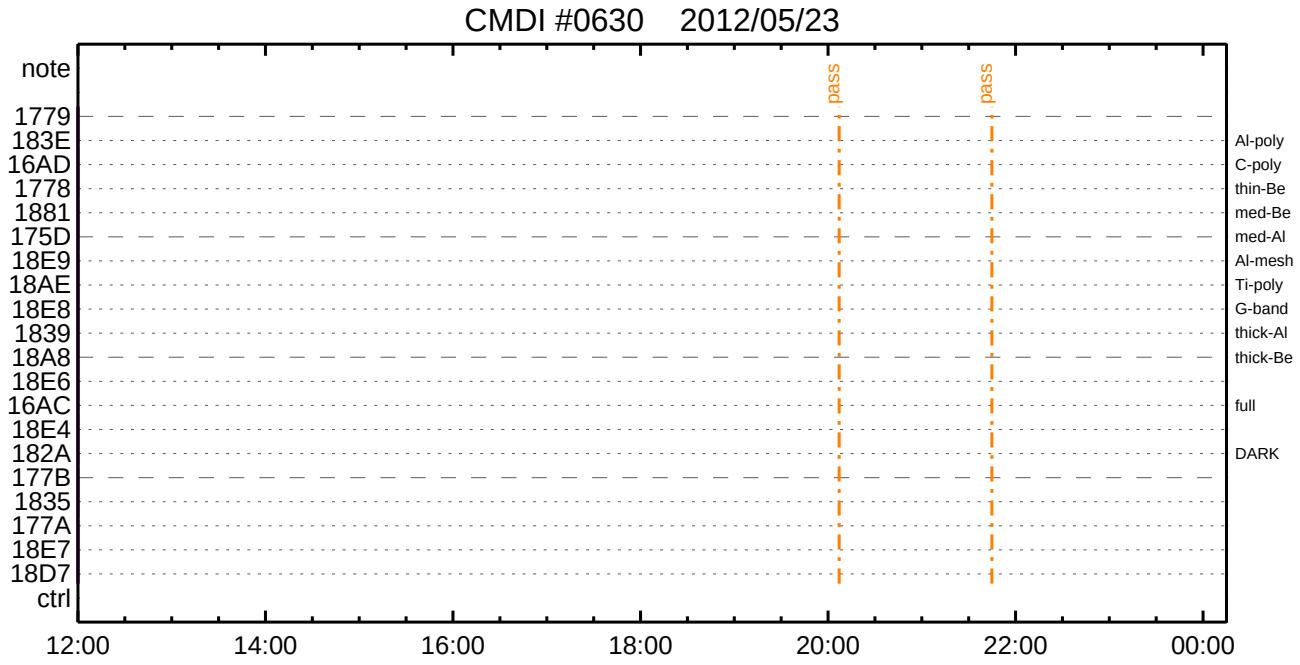
CMDI #0630 2012/05/23
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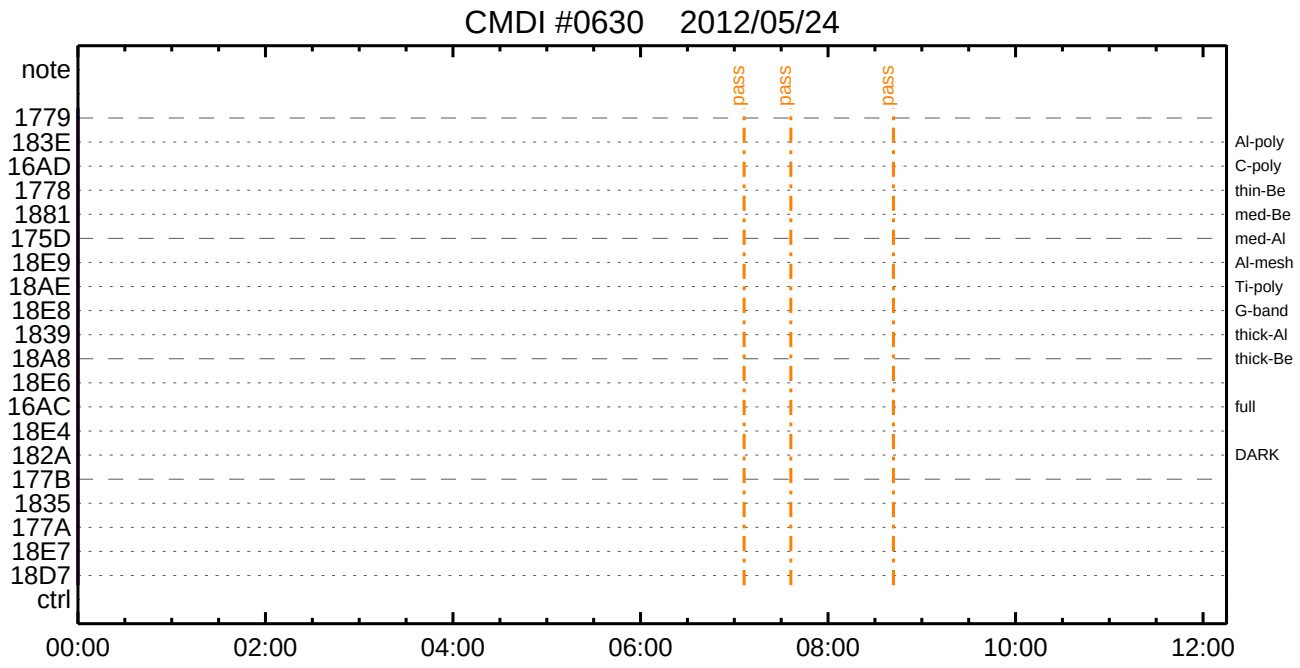
CMDI #0630 2012/05/24
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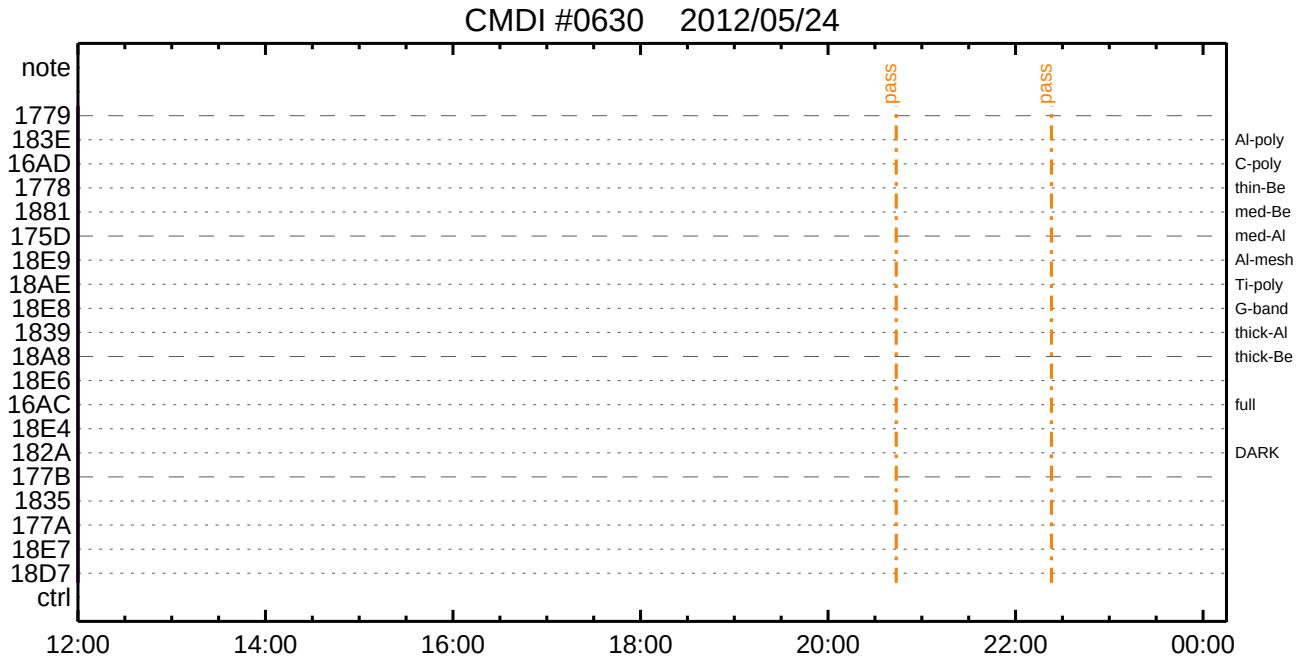
CMDI #0630 2012/05/24
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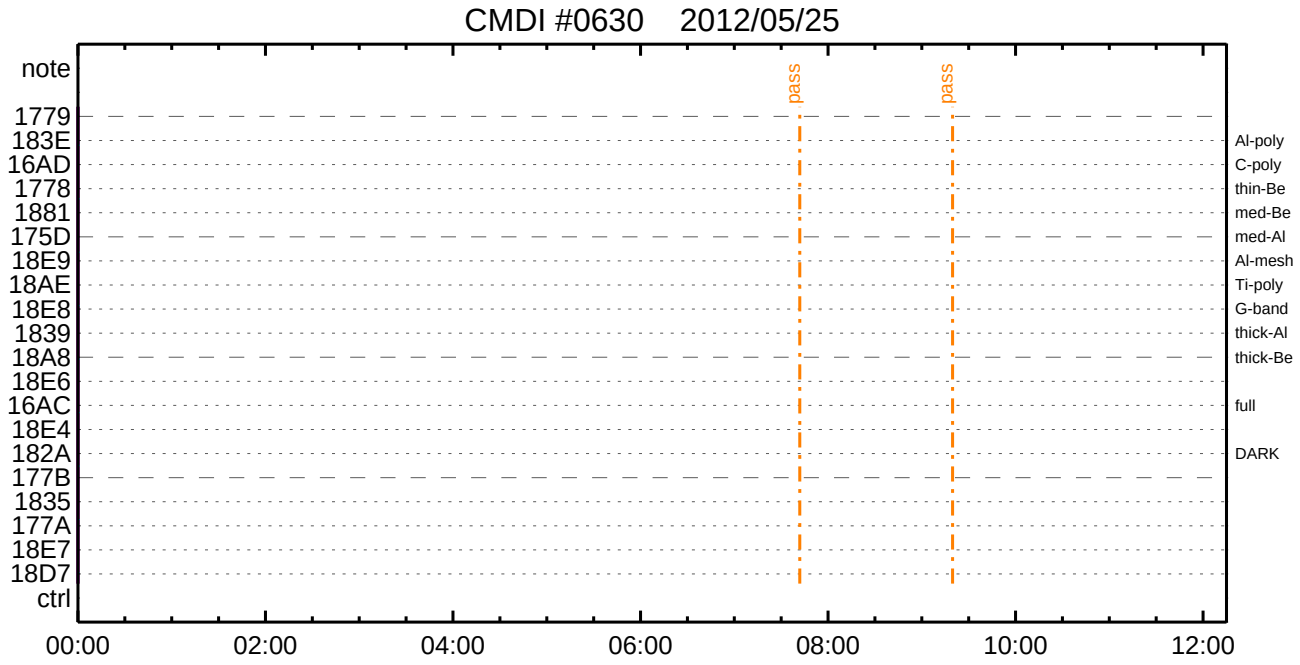
CMDI #0630 2012/05/25
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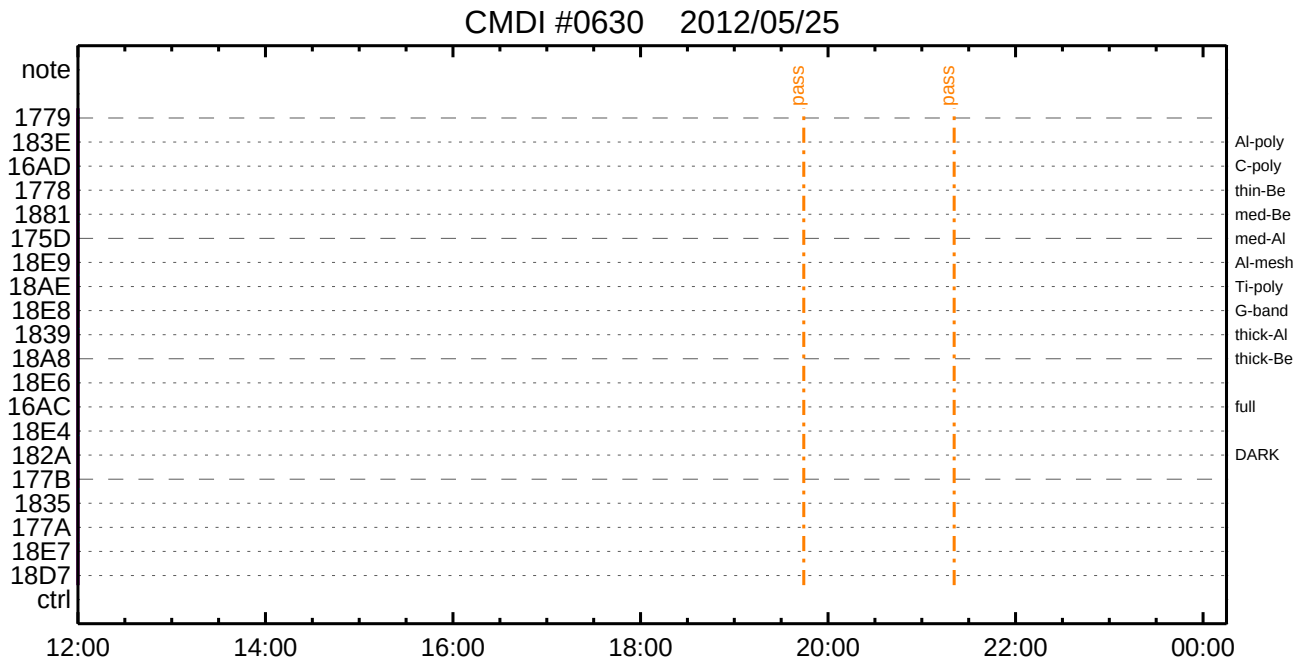
CMDI #0630 2012/05/25
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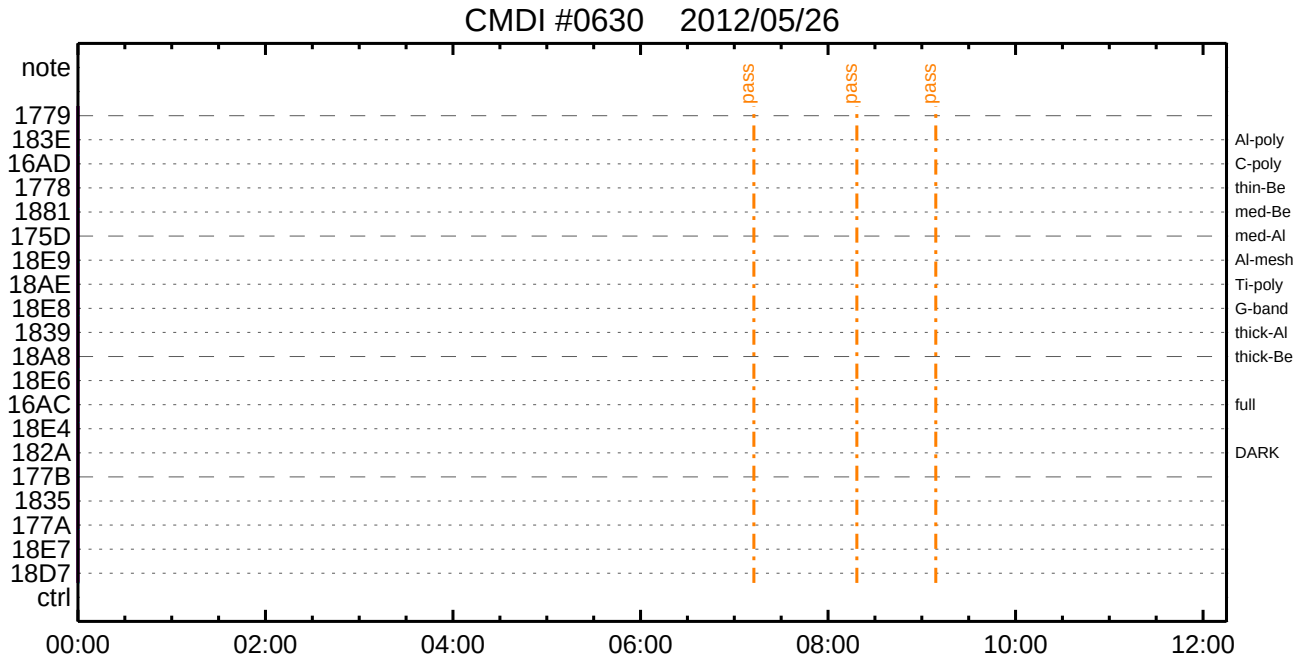
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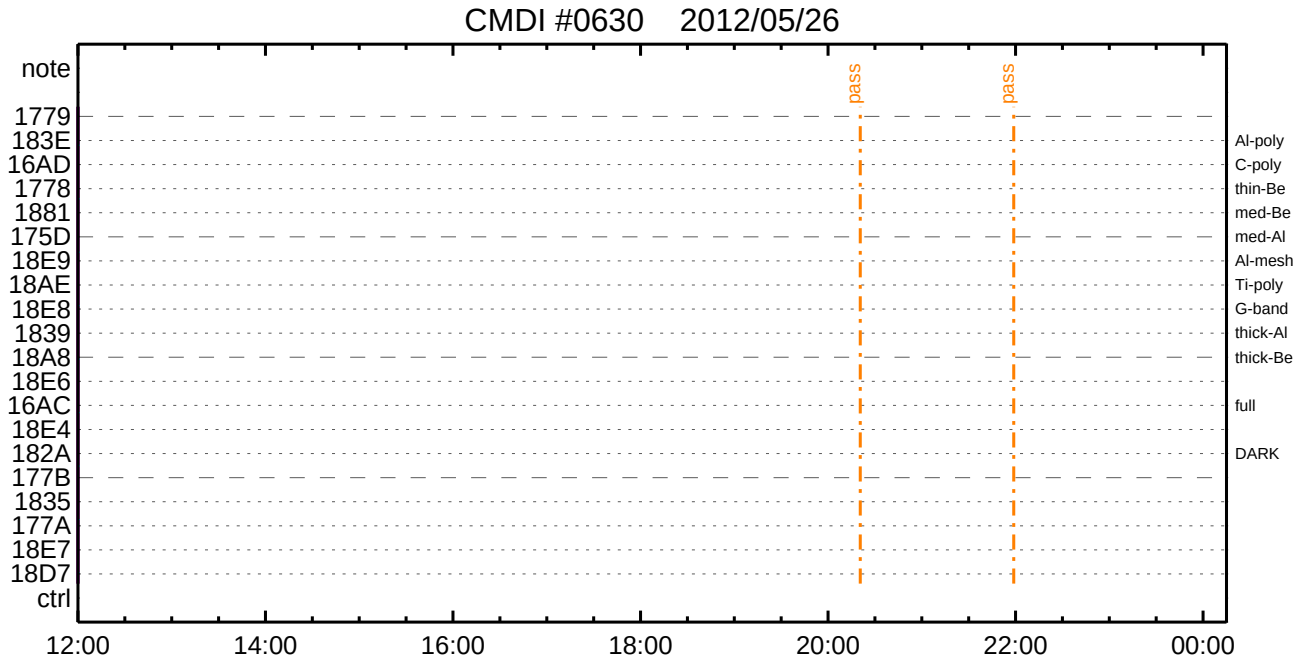
CMDI #0630 2012/05/26
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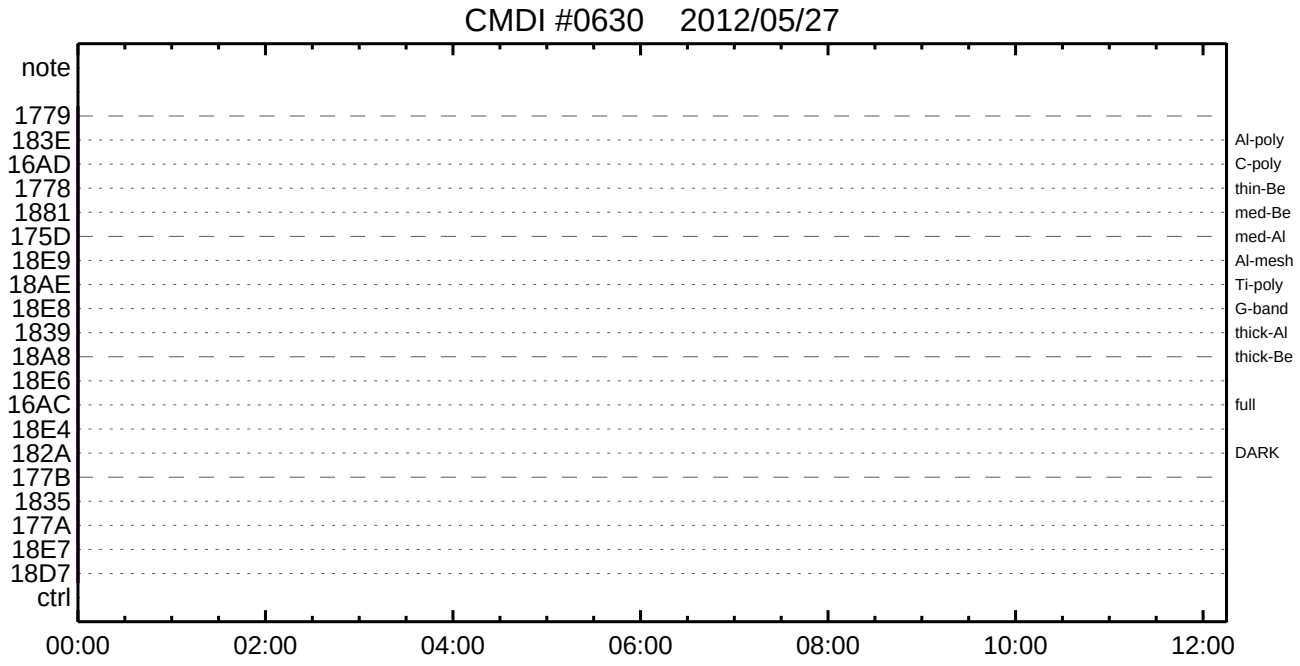
CMDI #0630 2012/05/27
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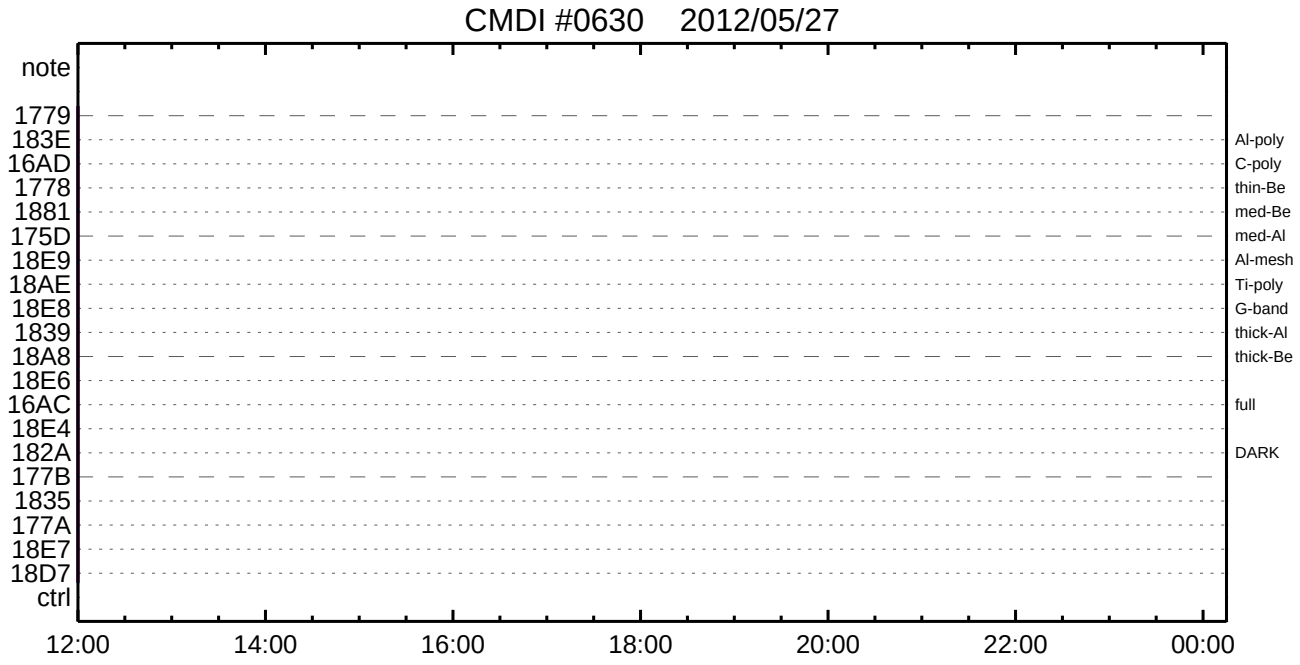
CMDI #0630 2012/05/27
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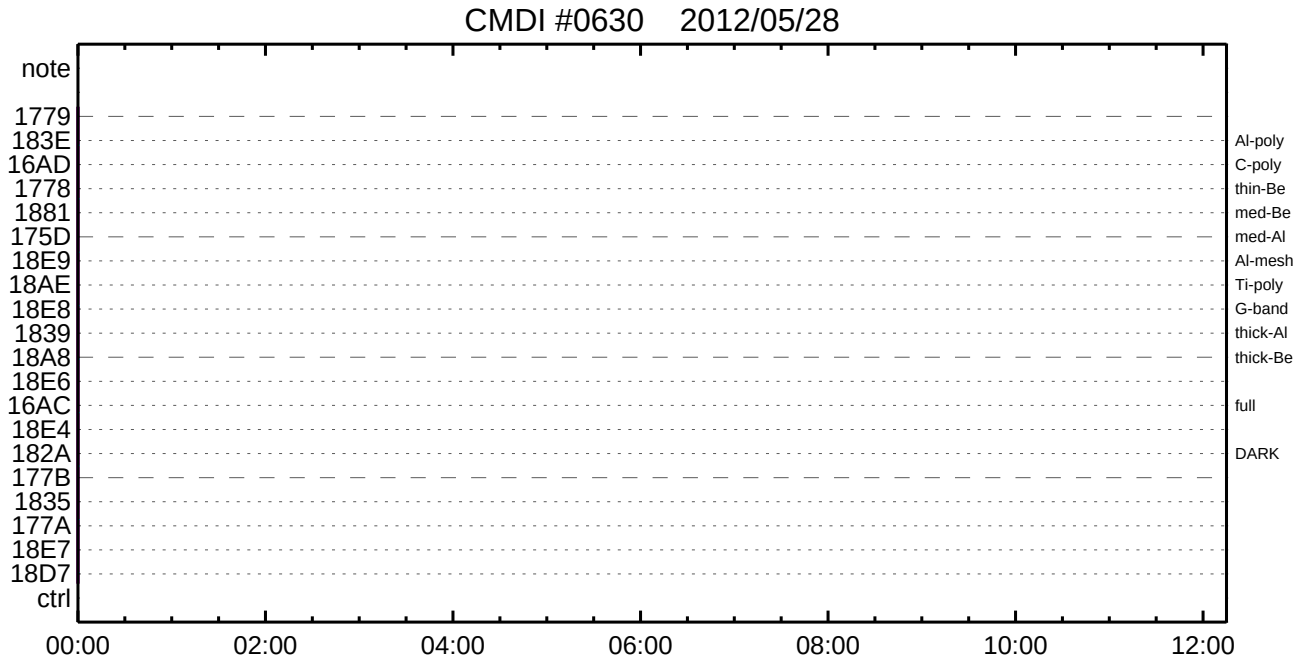
CMDI #0630 2012/05/28
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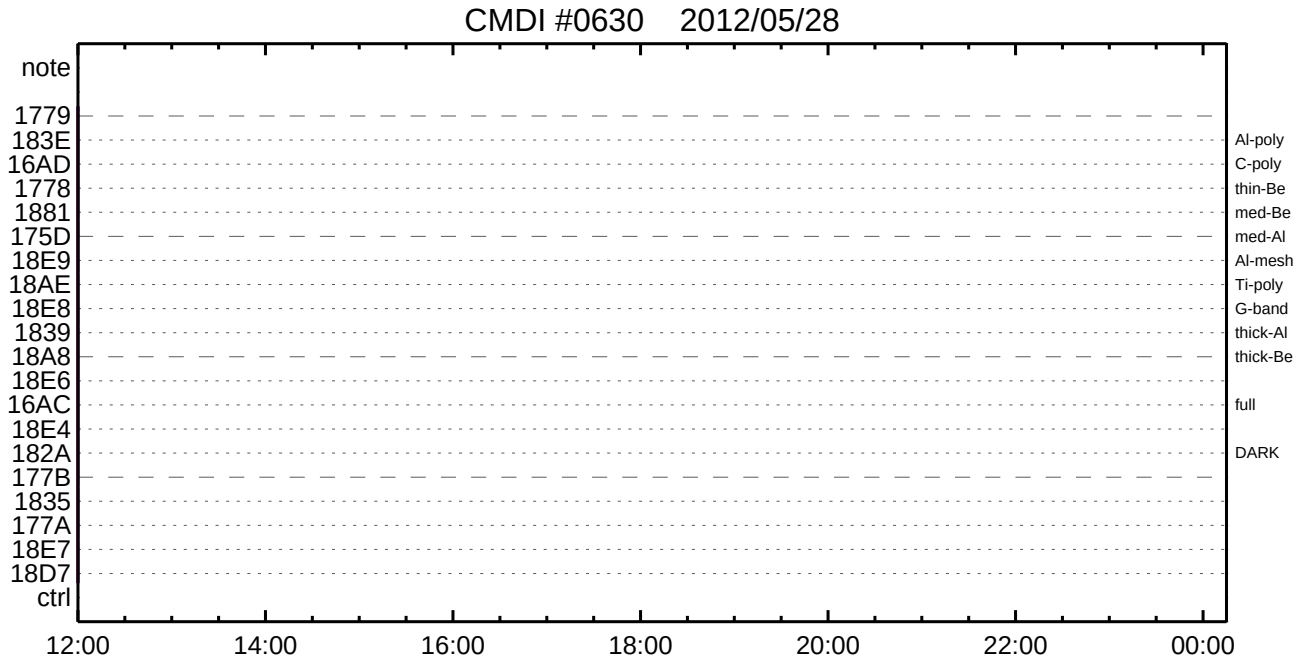
CMDI #0630 2012/05/28
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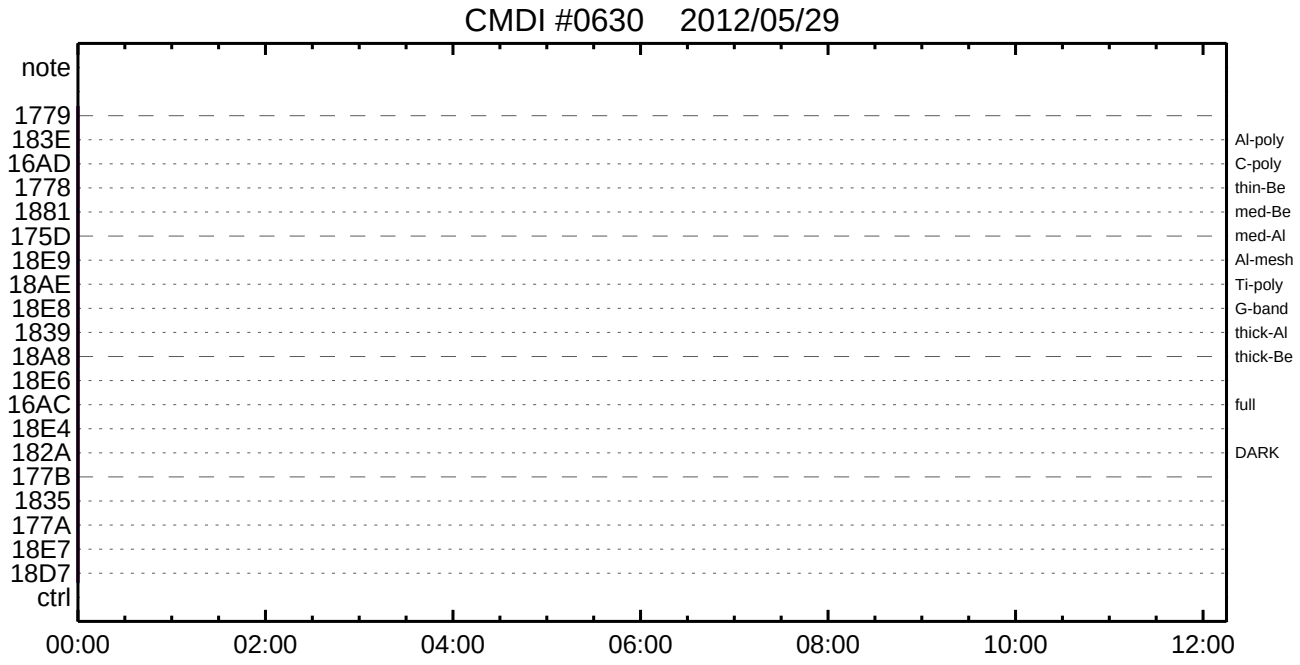
CMDI #0630 2012/05/29
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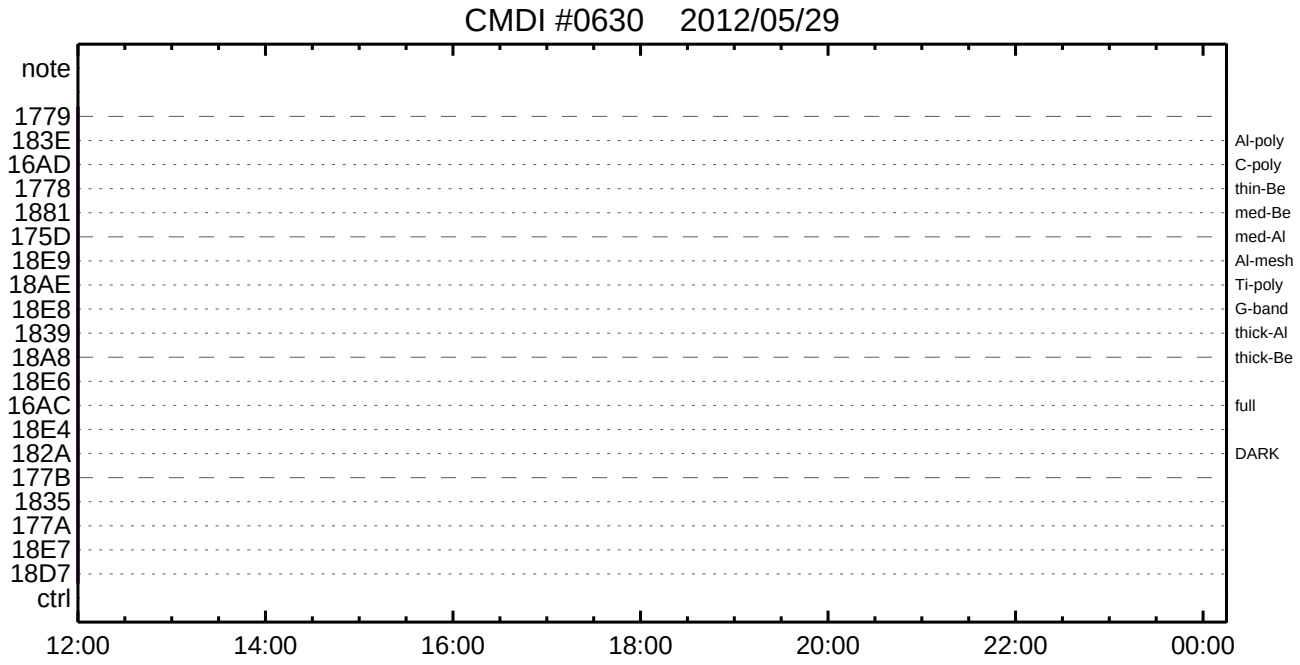
CMDI #0630 2012/05/29
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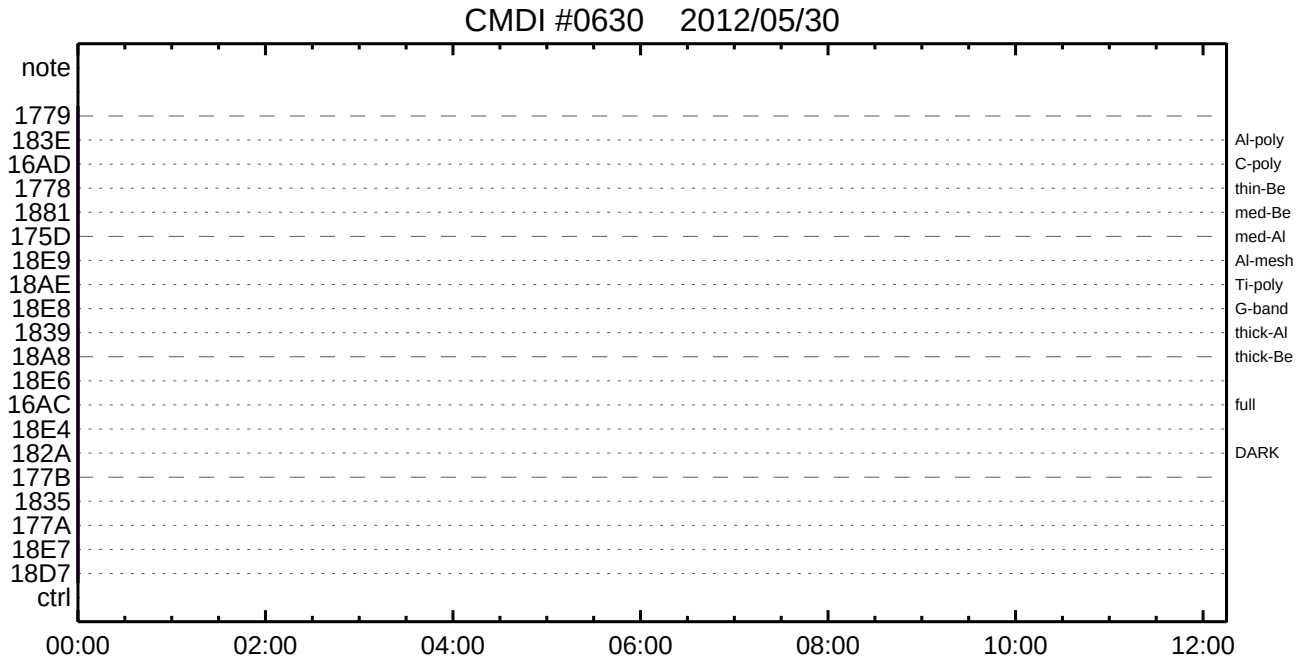
CMDI #0630 2012/05/30
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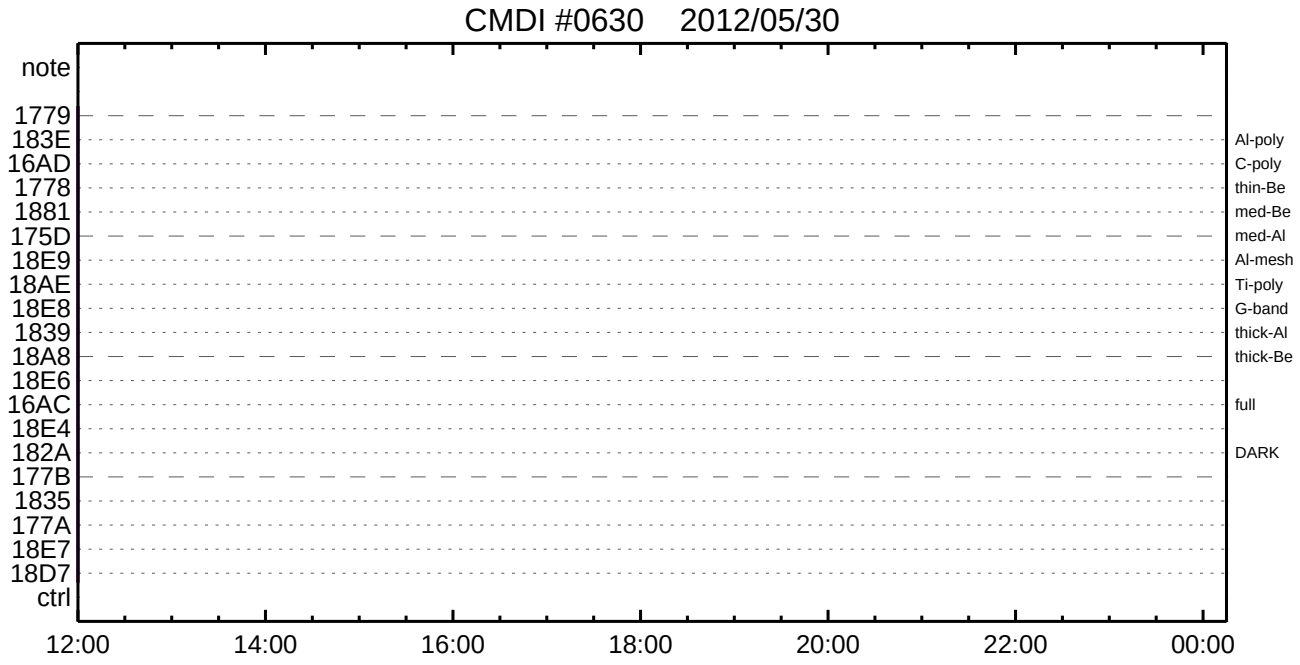
CMDI #0630 2012/05/30
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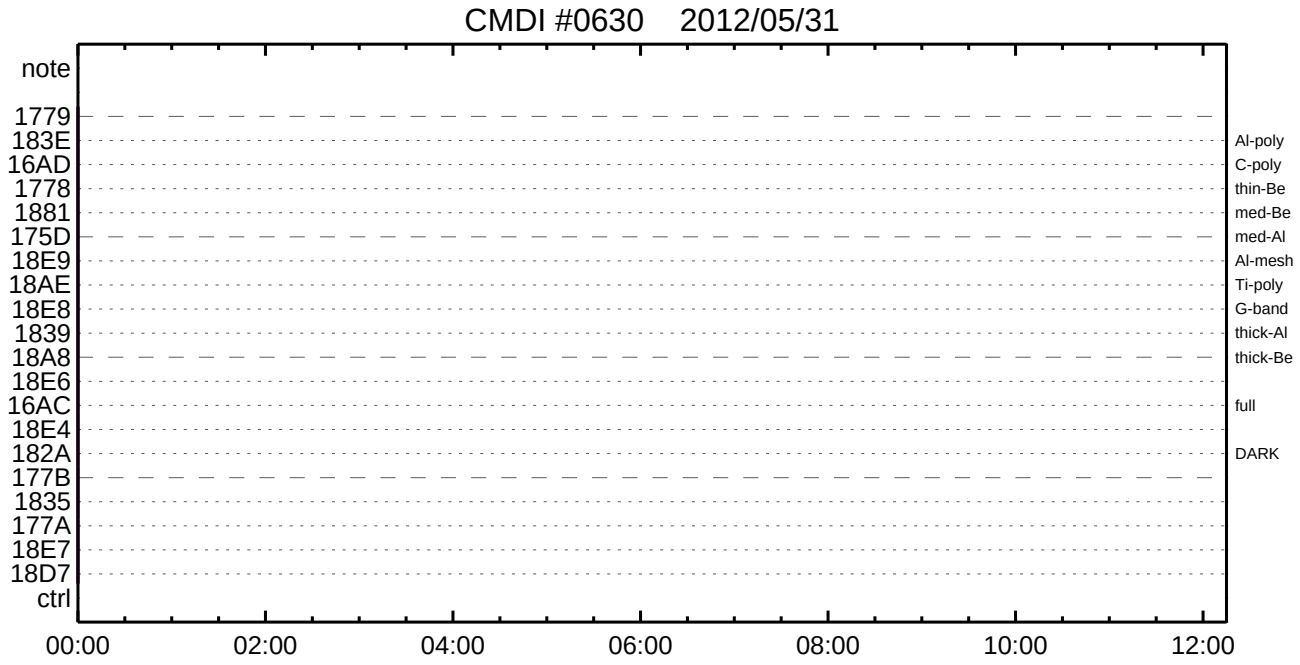
CMDI #0630 2012/05/31
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ctrl
Al-poly
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thin-Be
med-Be
med-Al
Al-mesh
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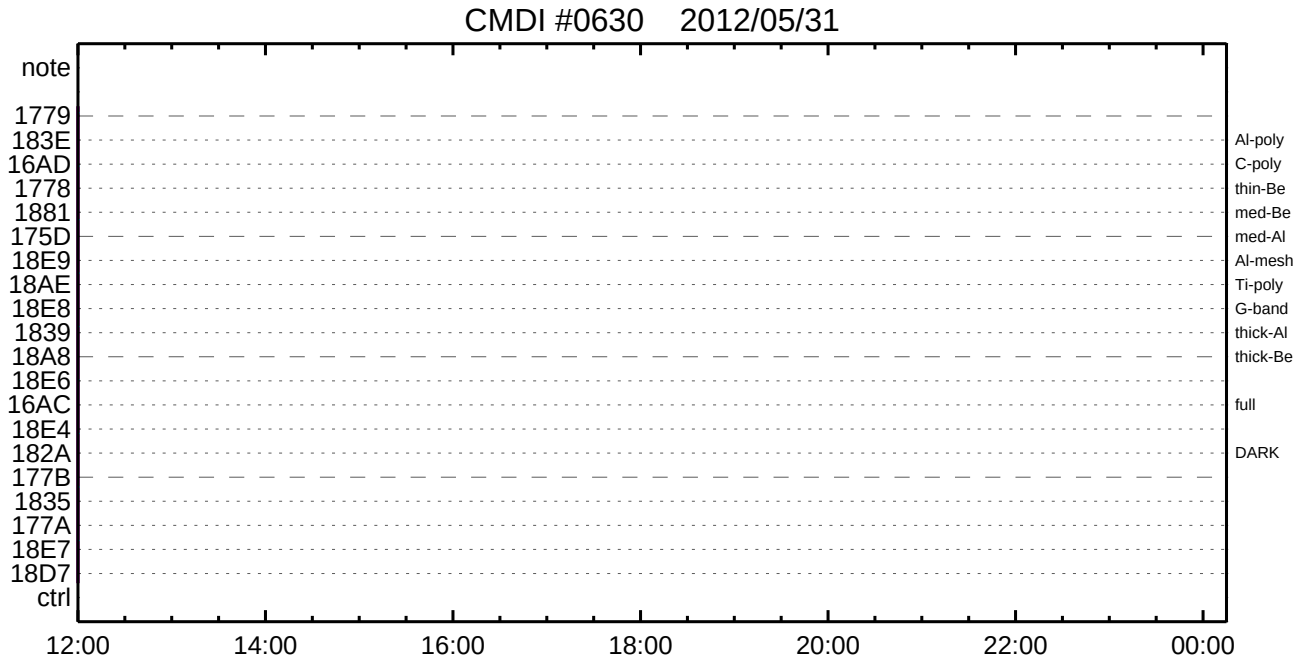
CMDI #0630 2012/05/31
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Al-mesh
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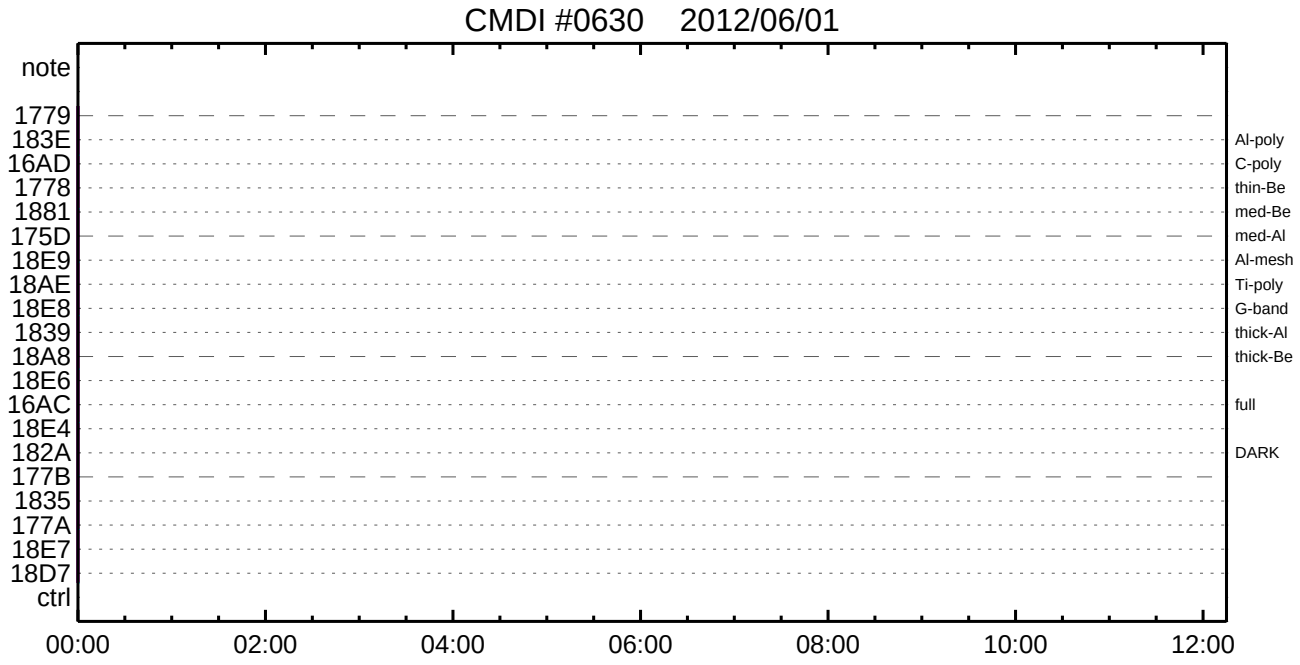
CMDI #0630 2012/06/01
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med-Al
Al-mesh
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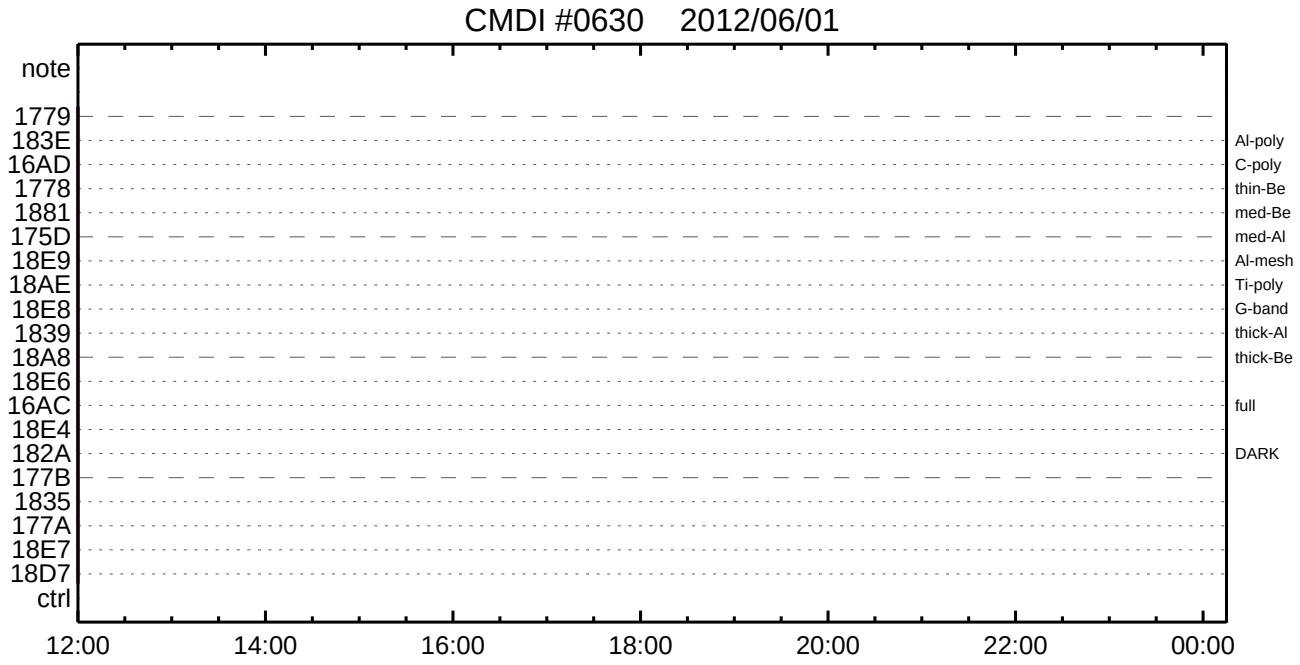
CMDI #0630 2012/06/01
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ctrl
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Al-mesh
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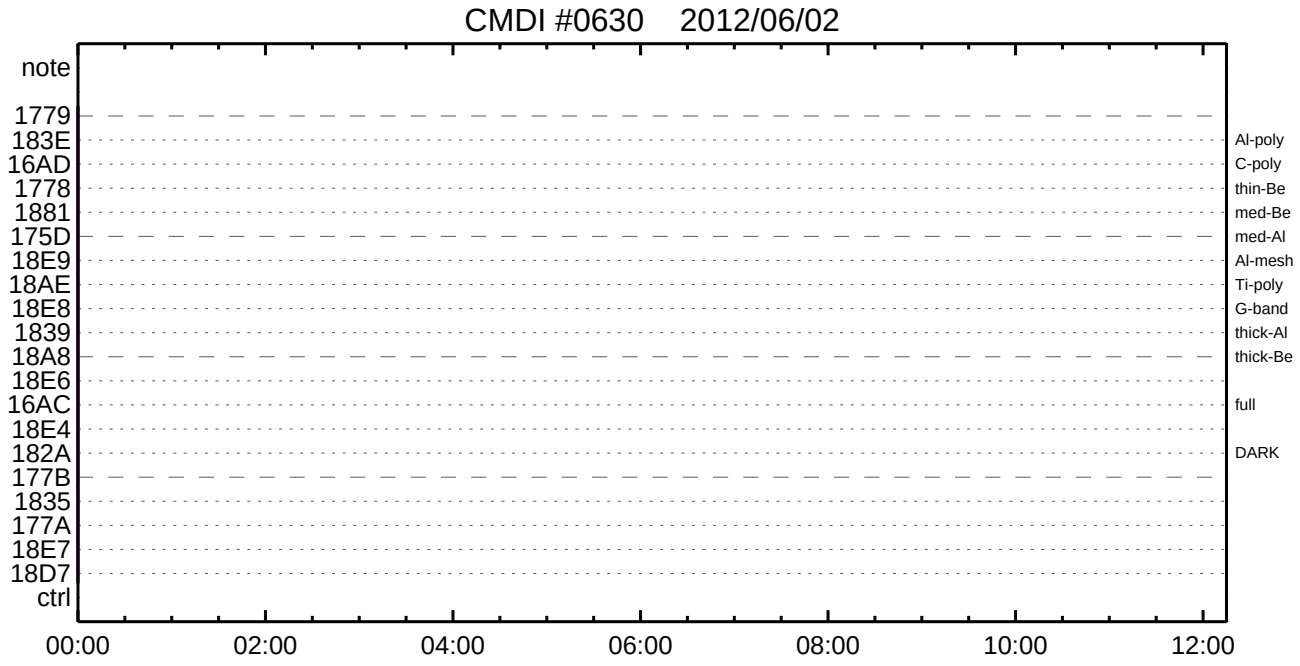
CMDI #0630 2012/06/02
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ctrl
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med-Be
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Al-mesh
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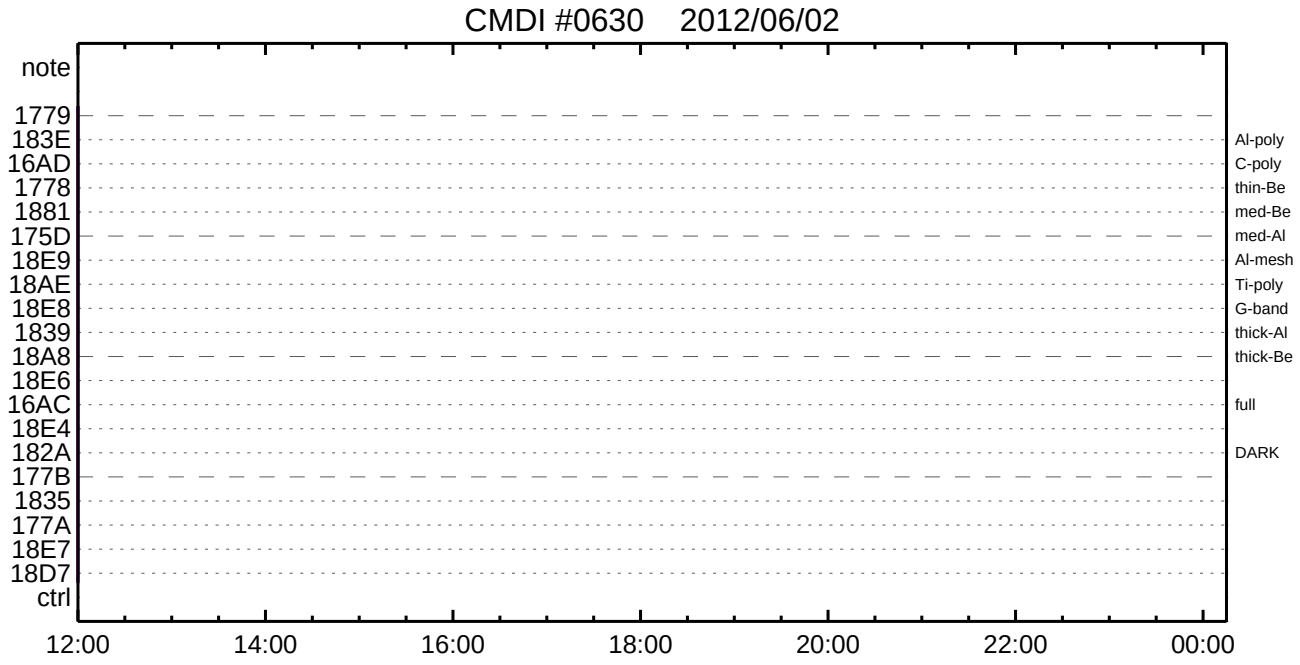
CMDI #0630 2012/06/02
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ctrl
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thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
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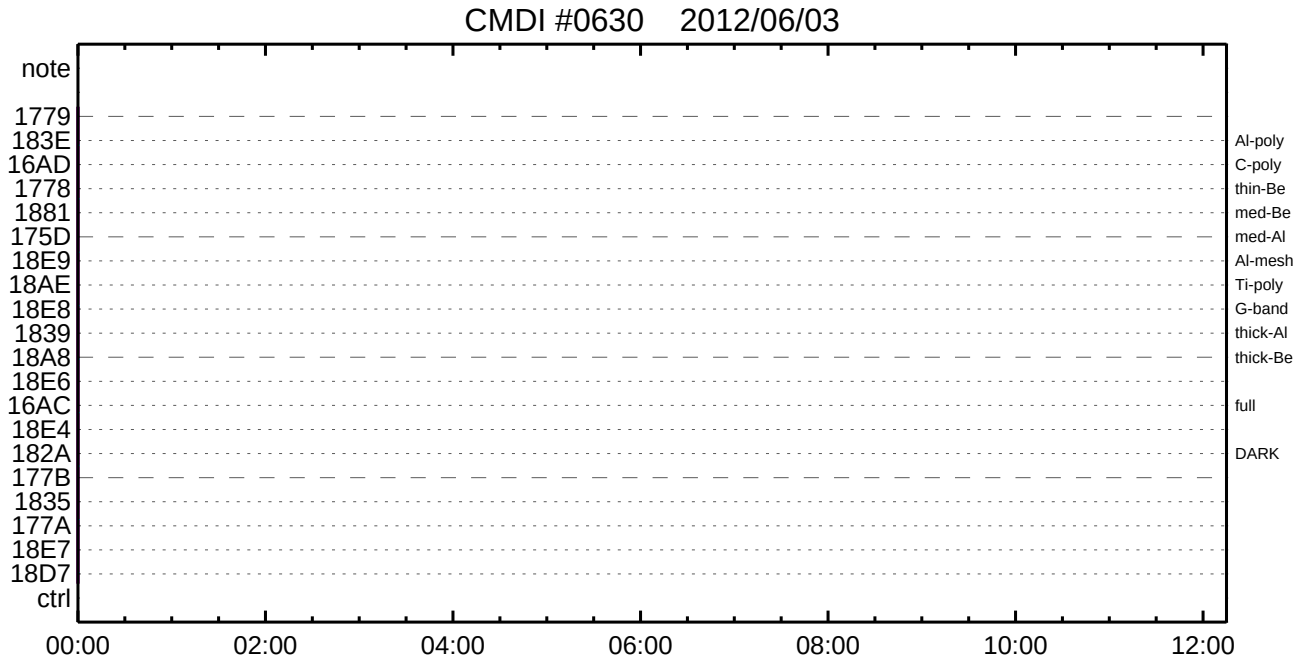
CMDI #0630 2012/06/03
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ctrl
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med-Be
med-Al
Al-mesh
Ti-poly
G-band
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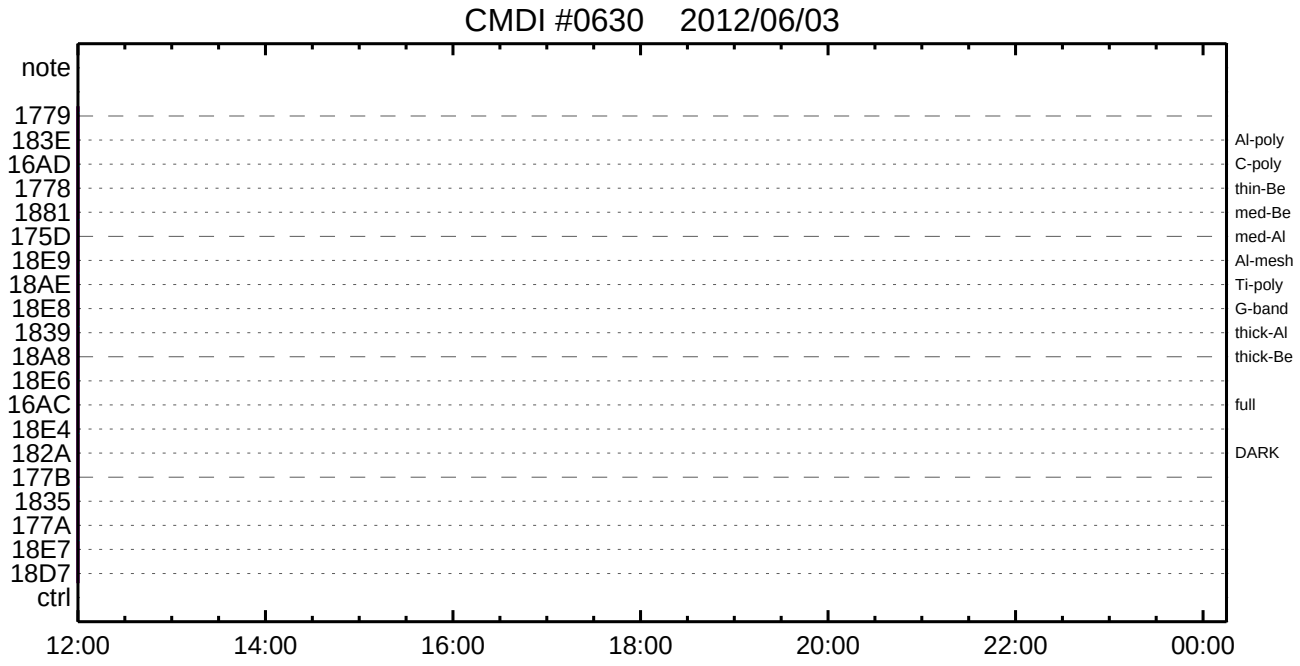
CMDI #0630 2012/06/03
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ctrl
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med-Be
med-Al
Al-mesh
Ti-poly
G-band
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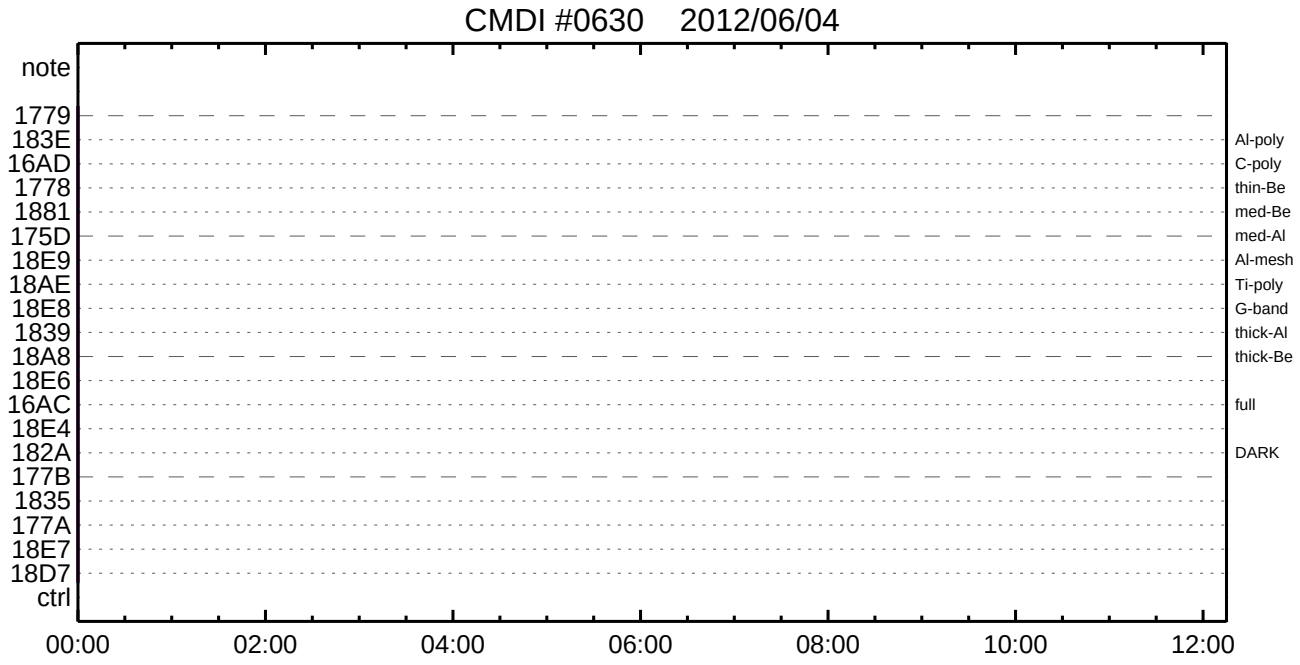
CMDI #0630 2012/06/04
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Al-mesh
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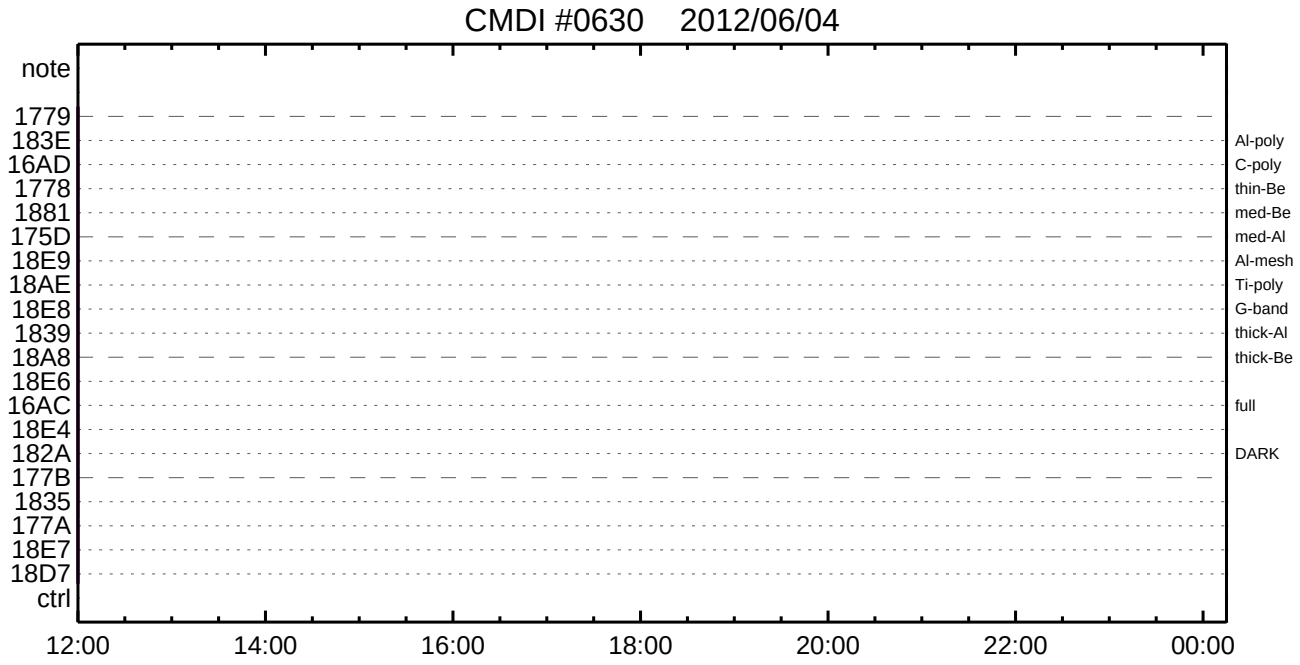
CMDI #0630 2012/06/04
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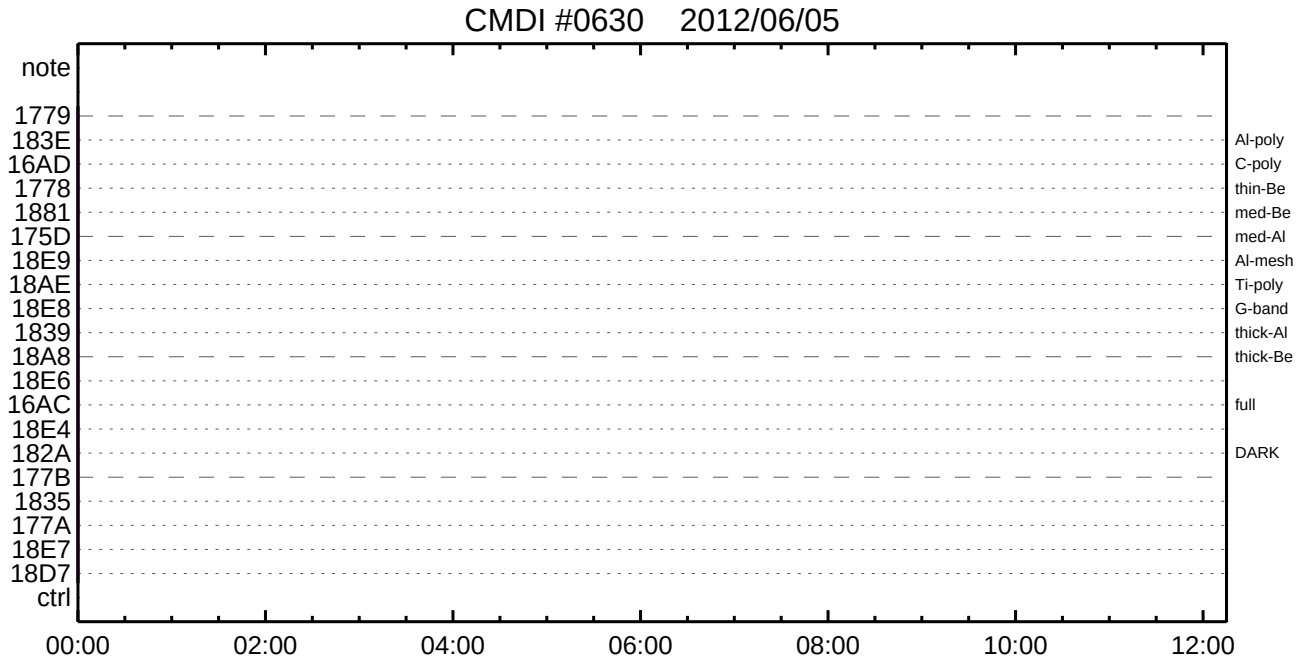
CMDI #0630 2012/06/05
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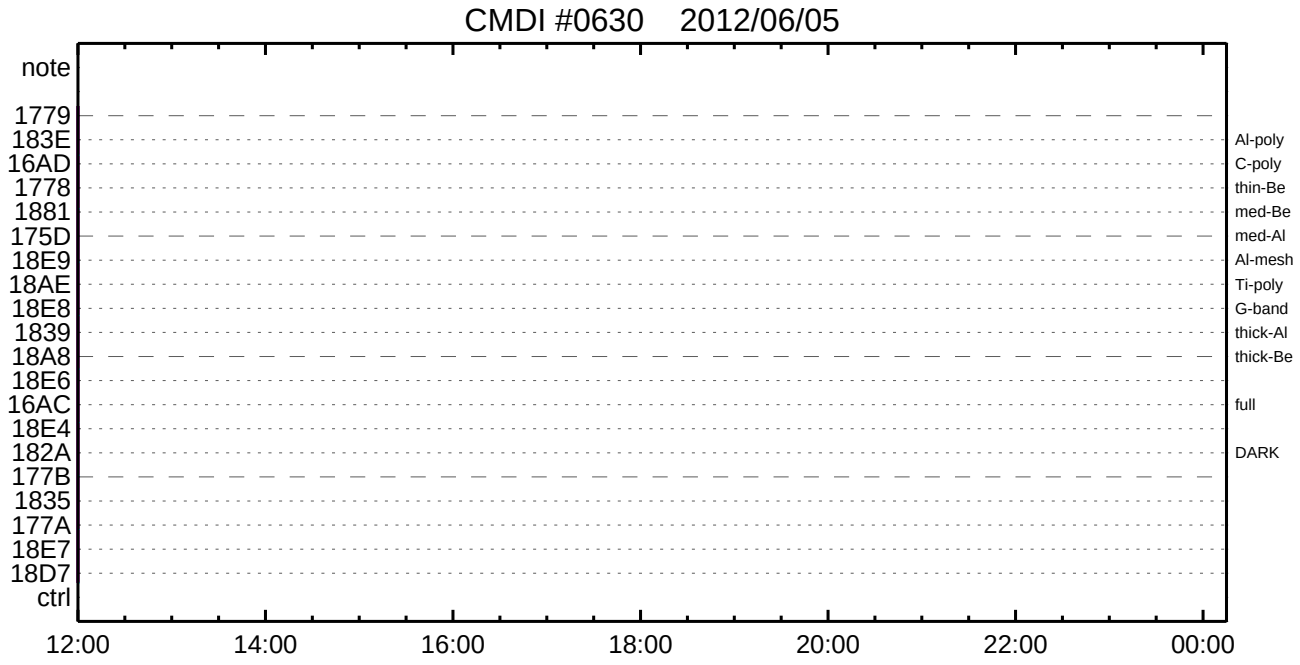
CMDI #0630 2012/06/05
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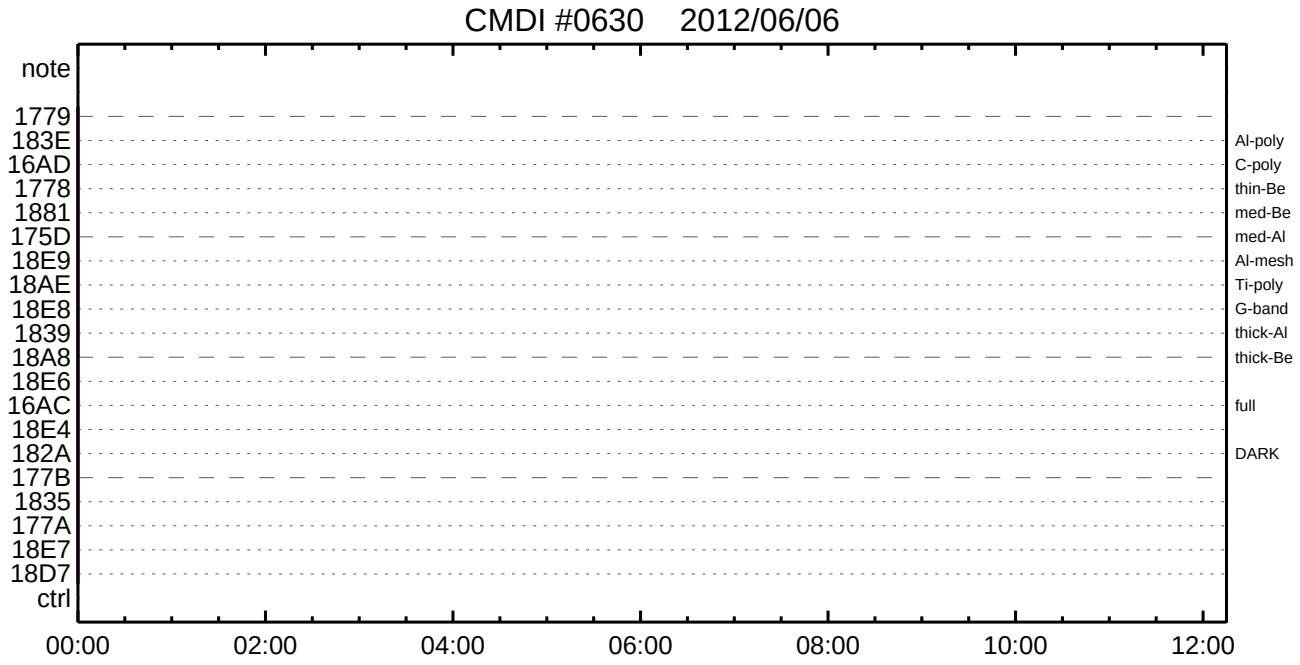
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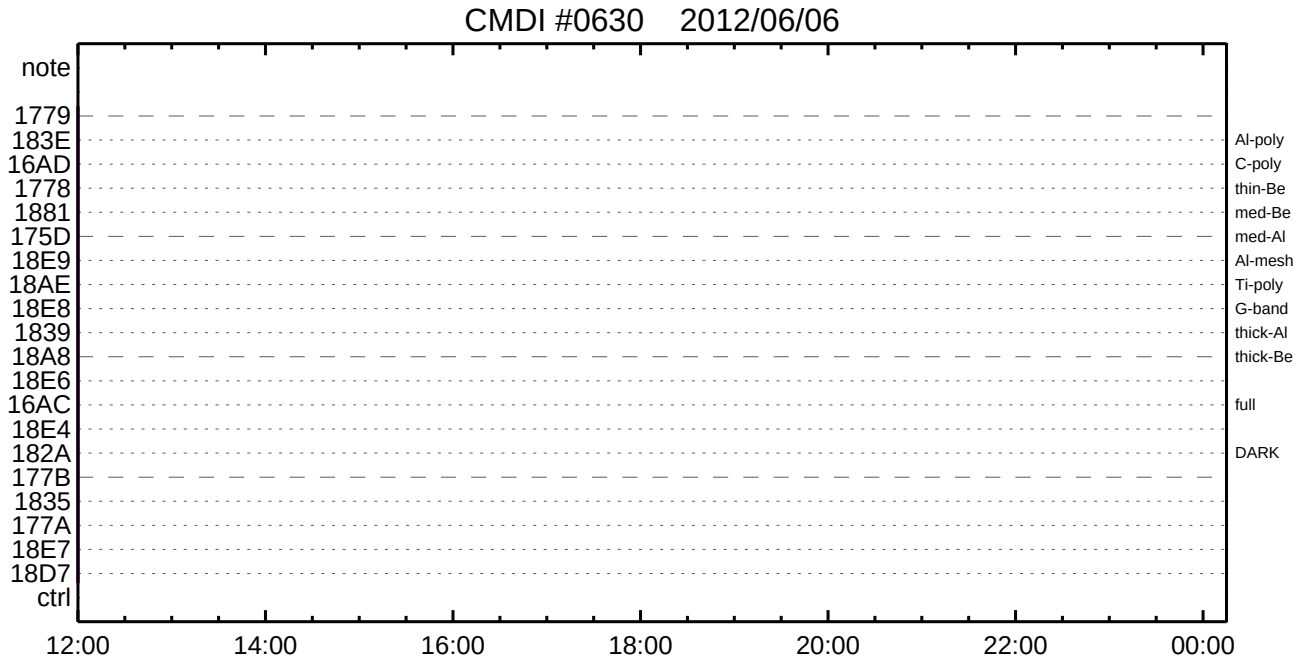
CMDI #0630 2012/06/06
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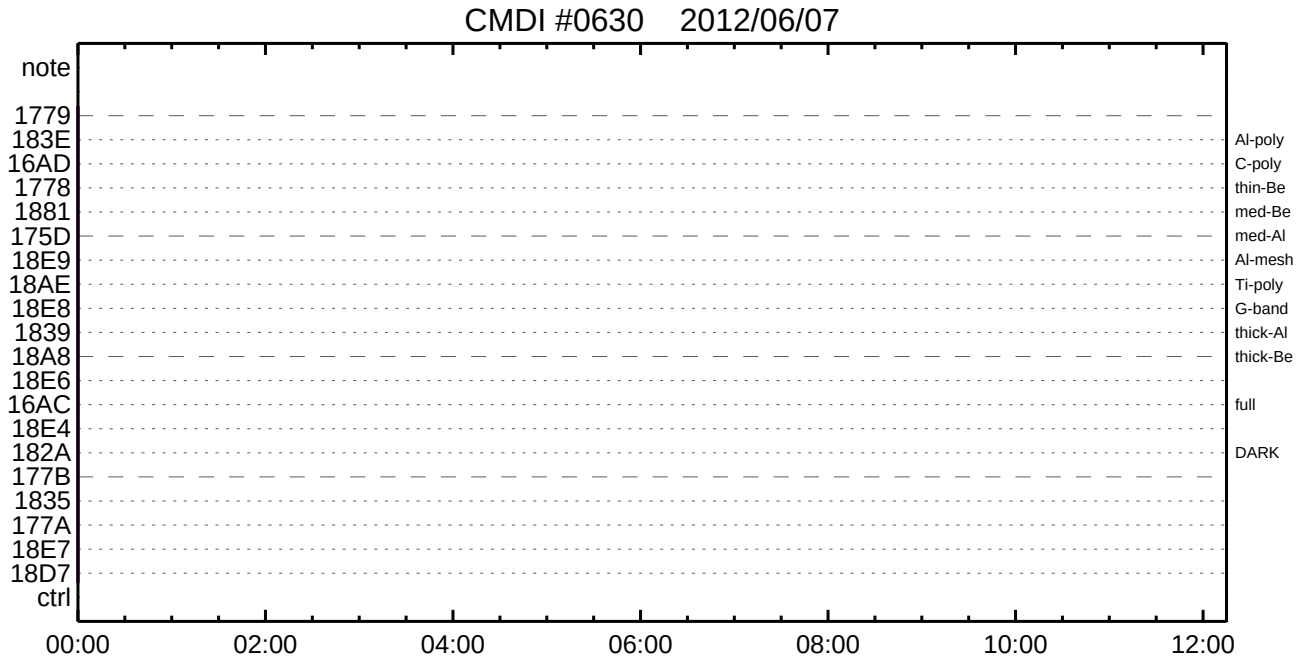
CMDI #0630 2012/06/07
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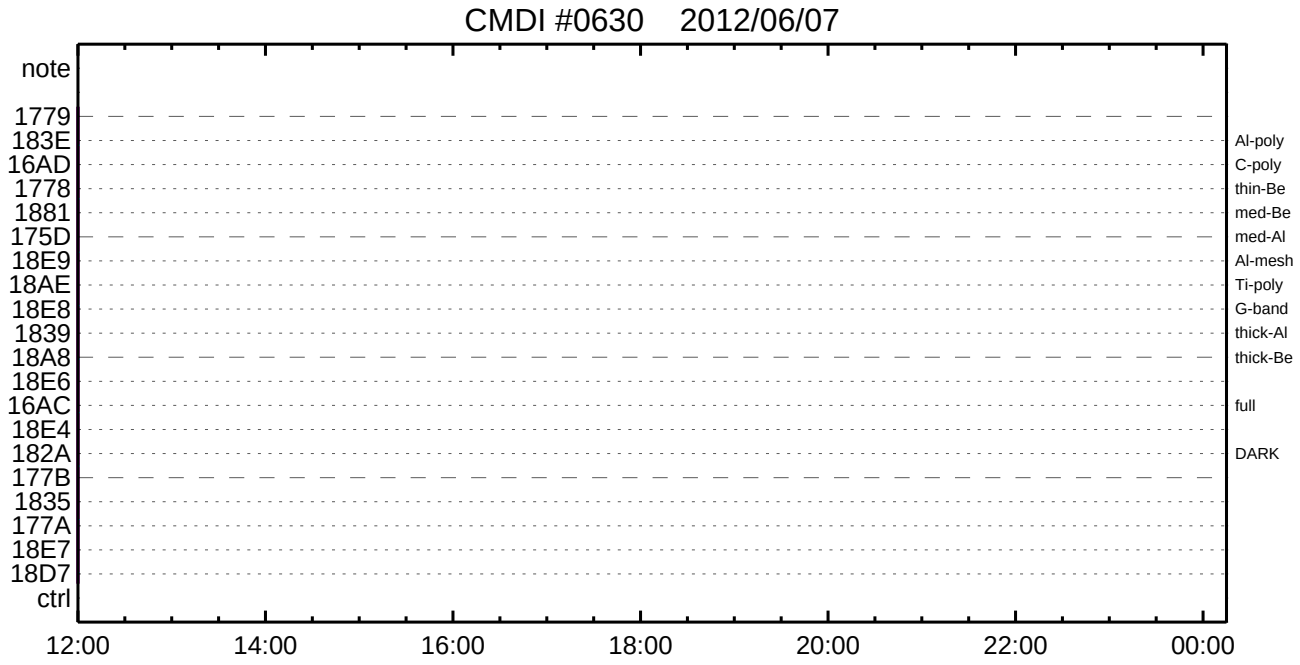
CMDI #0630 2012/06/07
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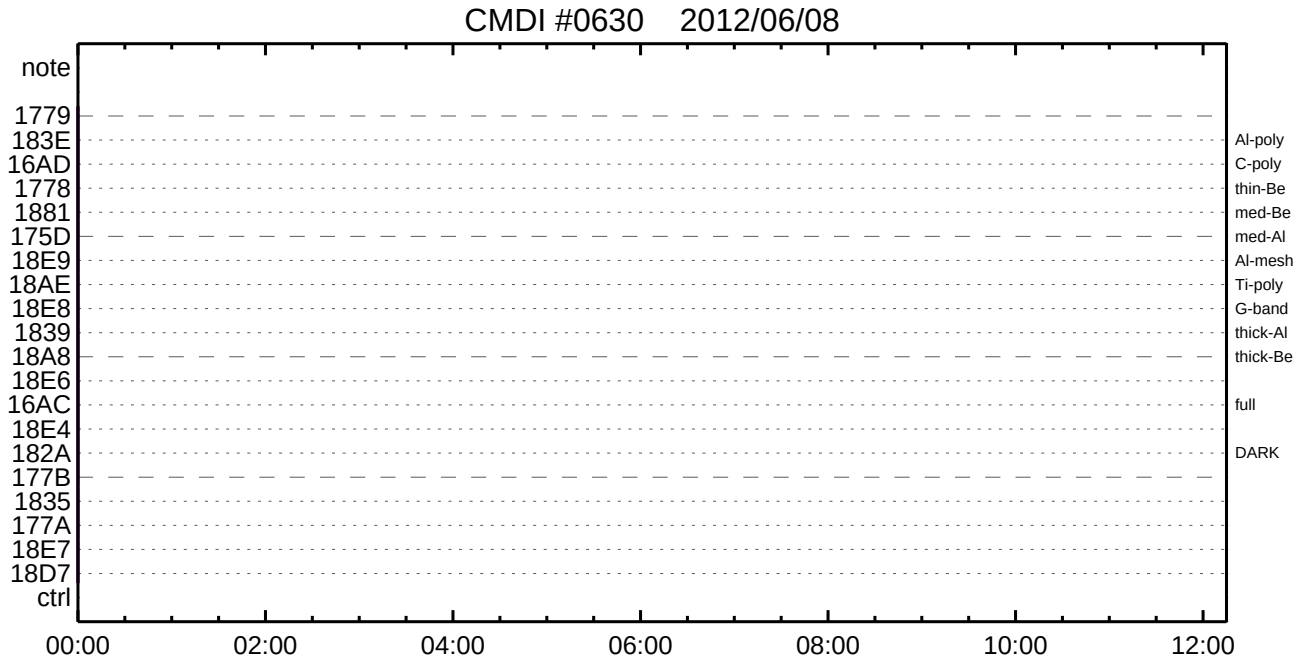
CMDI #0630 2012/06/08
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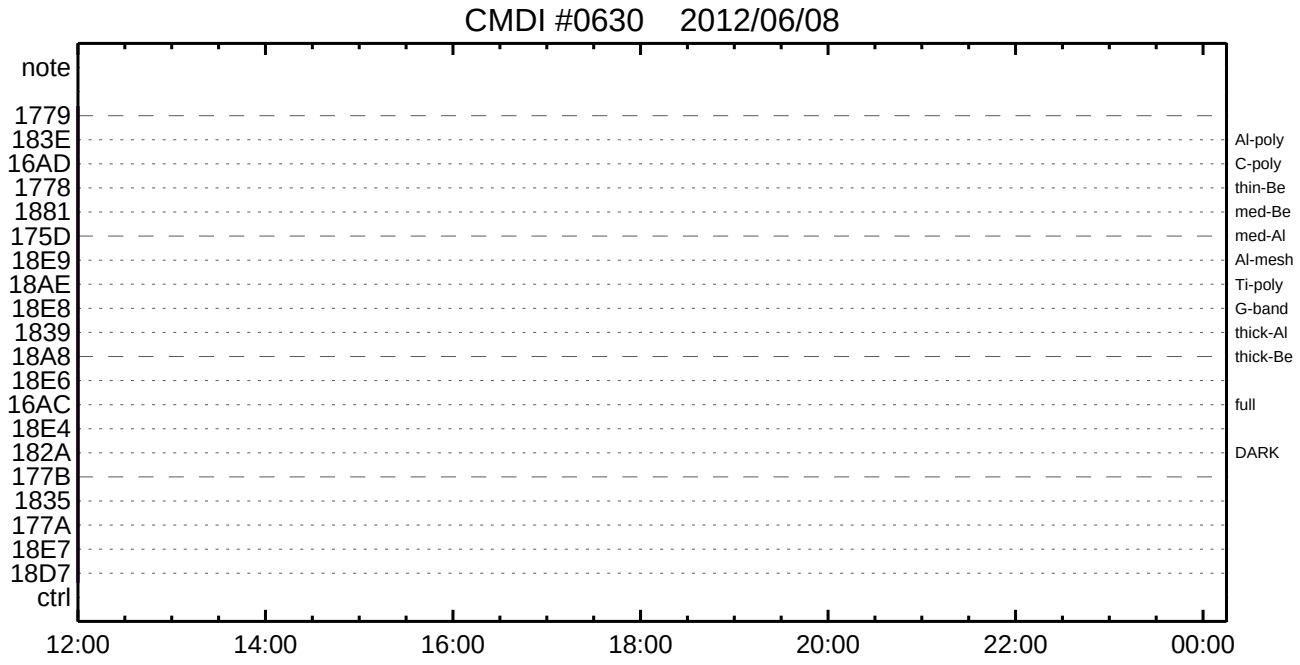
CMDI #0630 2012/06/08
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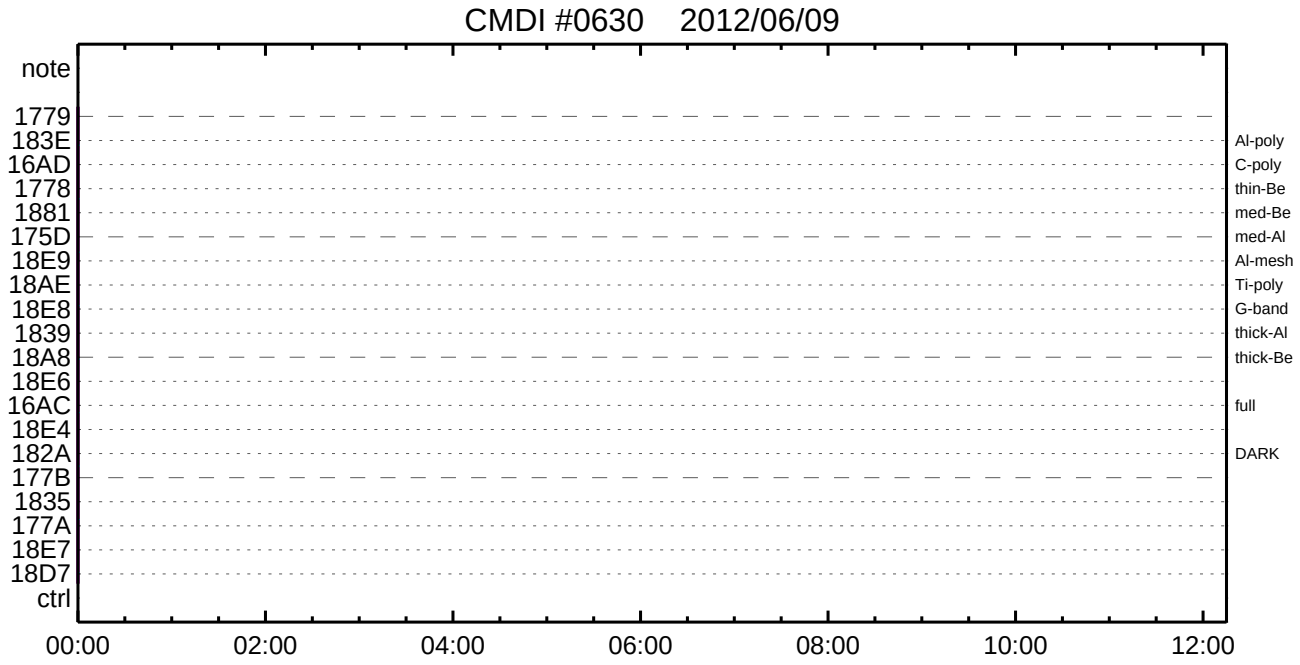
CMDI #0630 2012/06/09
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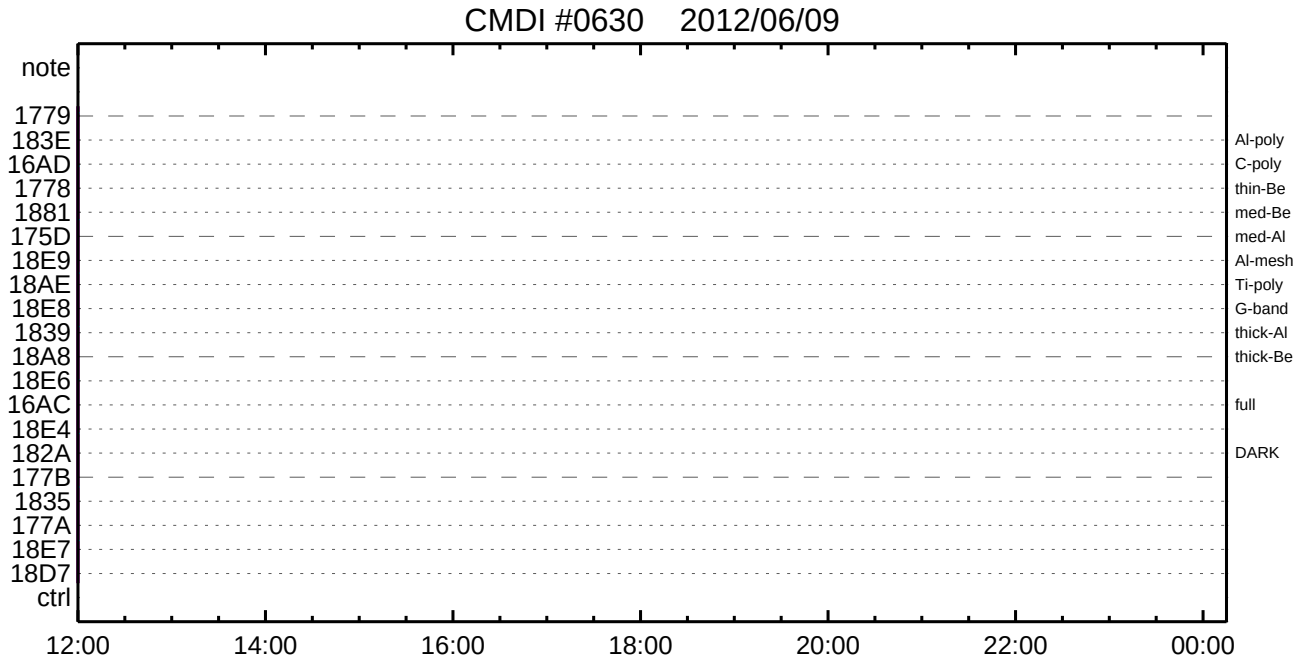
CMDI #0630 2012/06/09
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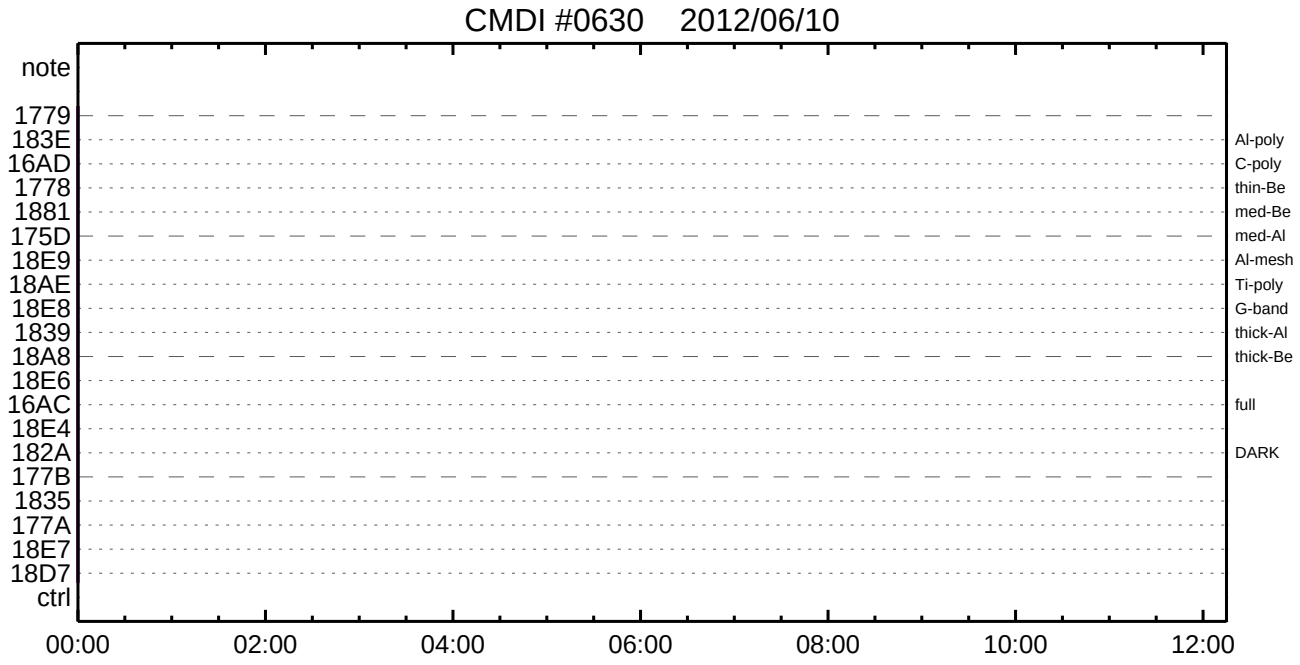
CMDI #0630 2012/06/10
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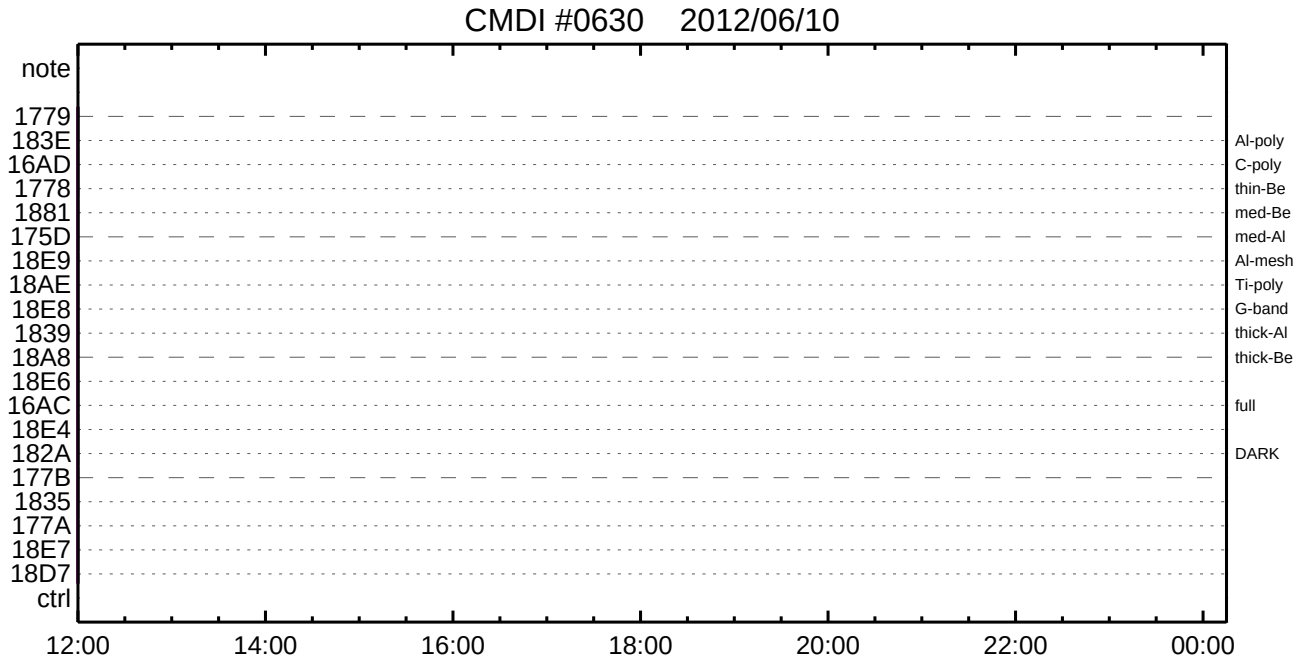
CMDI #0630 2012/06/10
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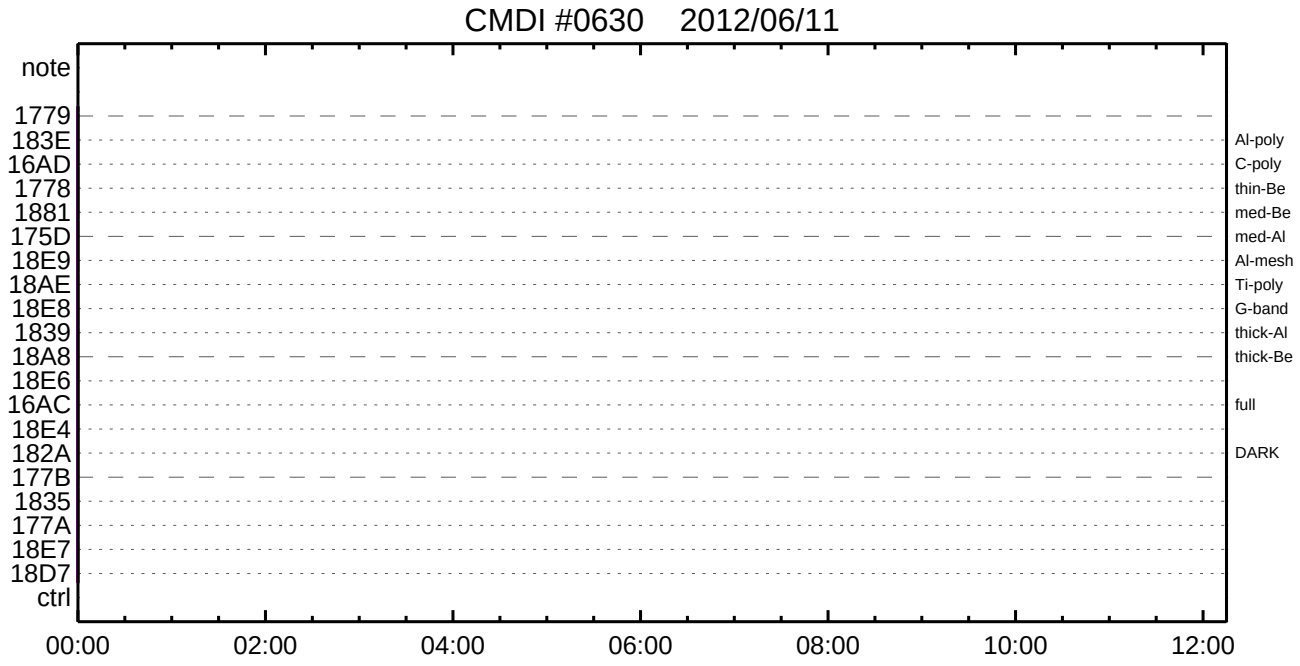
CMDI #0630 2012/06/11
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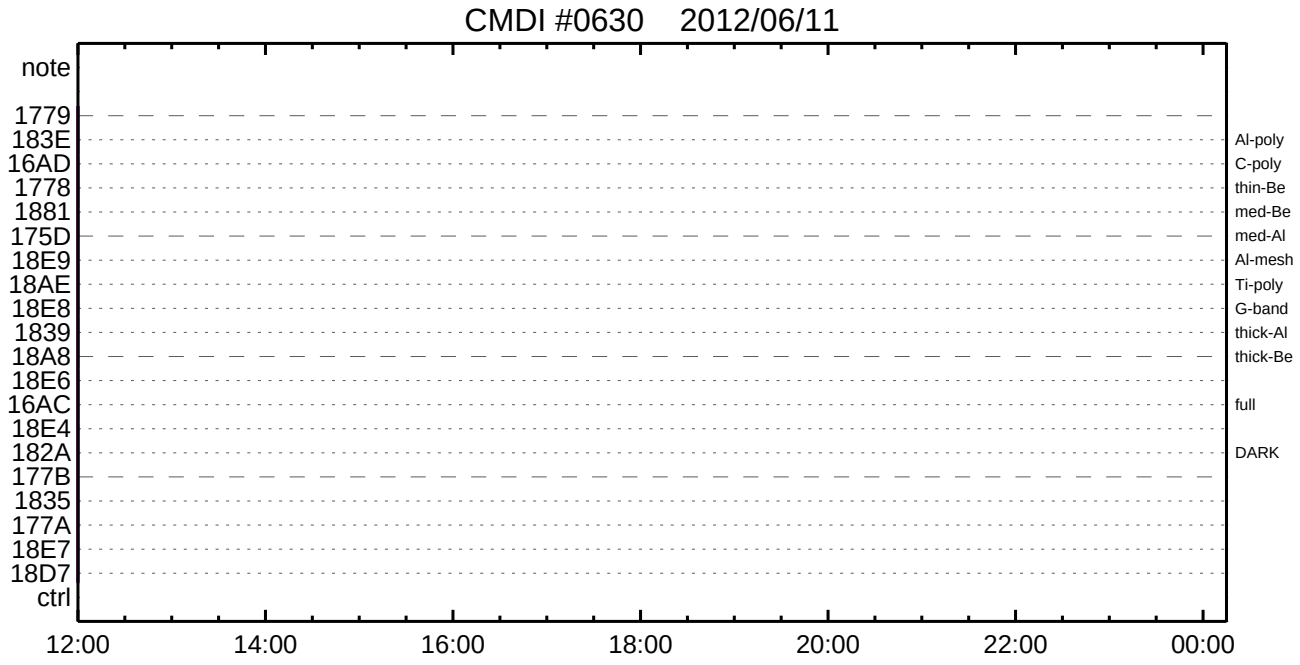
CMDI #0630 2012/06/11
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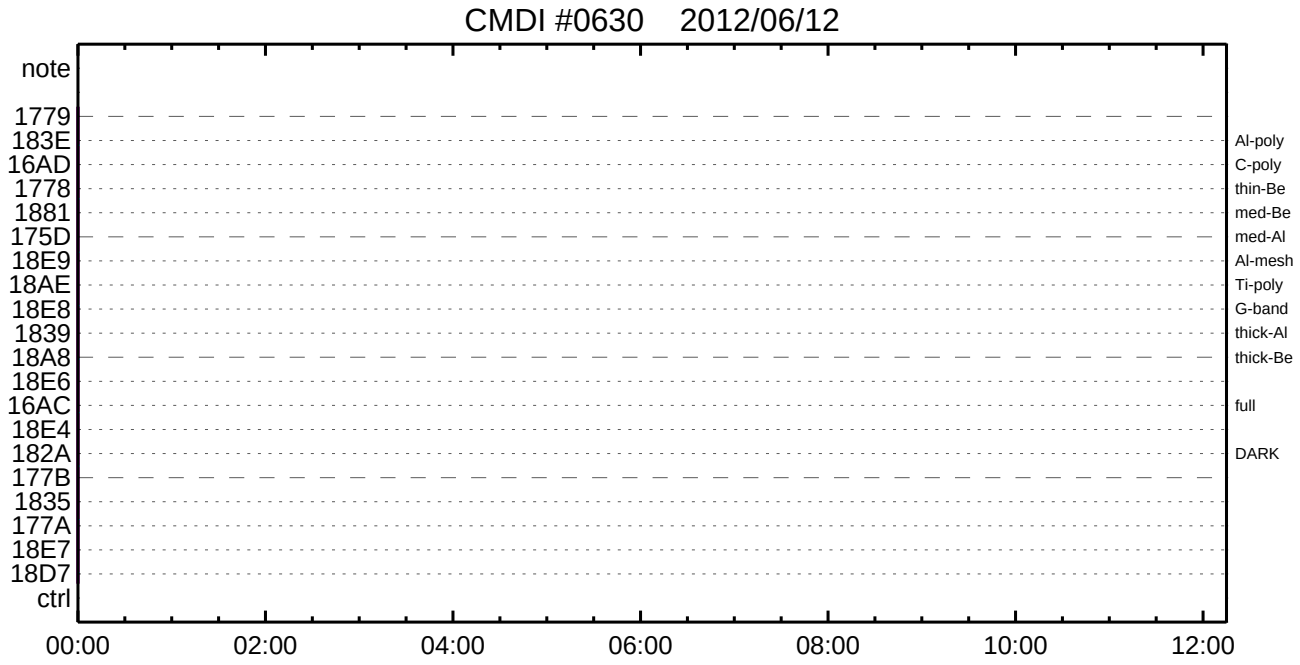
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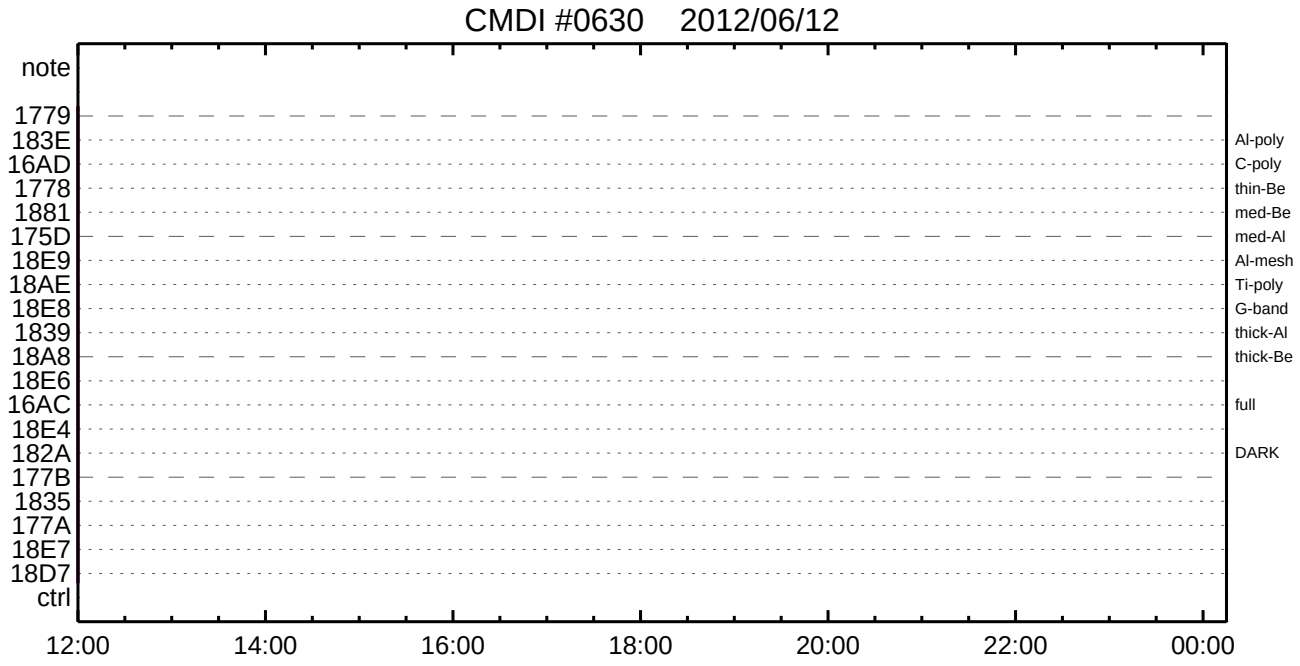
CMDI #0630 2012/06/12
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G-band
thick-Al
thick-Be
full
DARK
12:00
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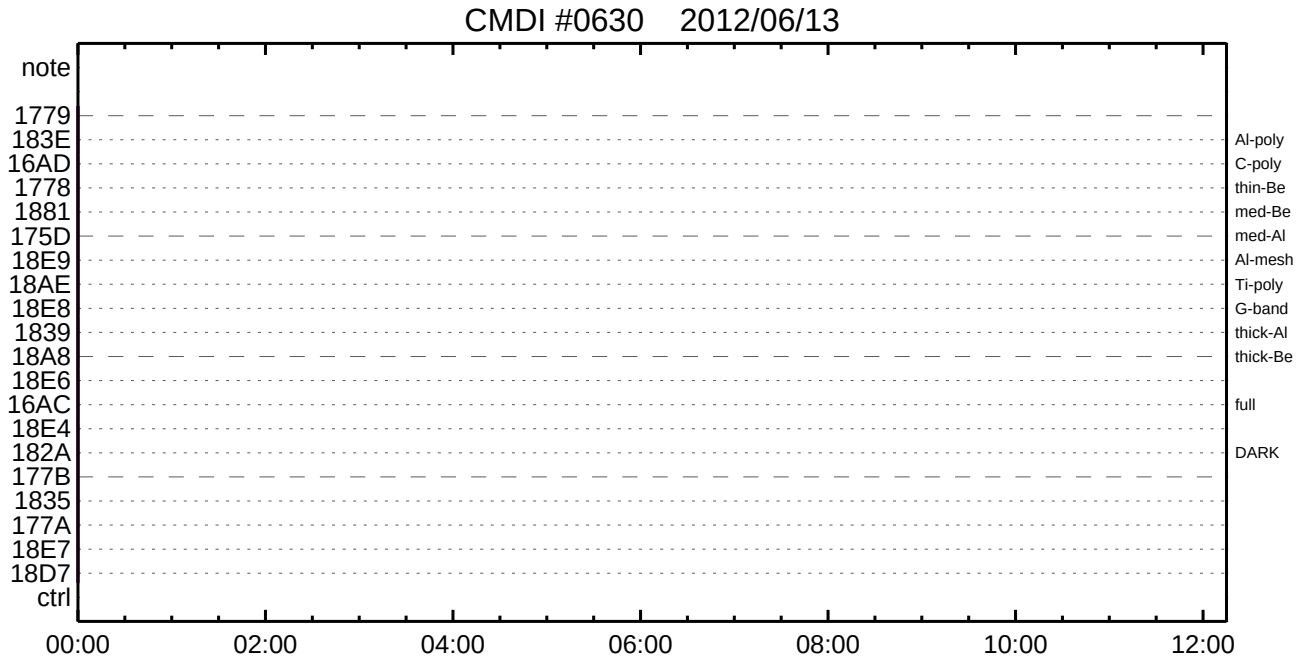
CMDI #0630 2012/06/13
note
1779
183E
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18A8
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16AC
18E4
182A
177B
1835
177A
18E7
18D7
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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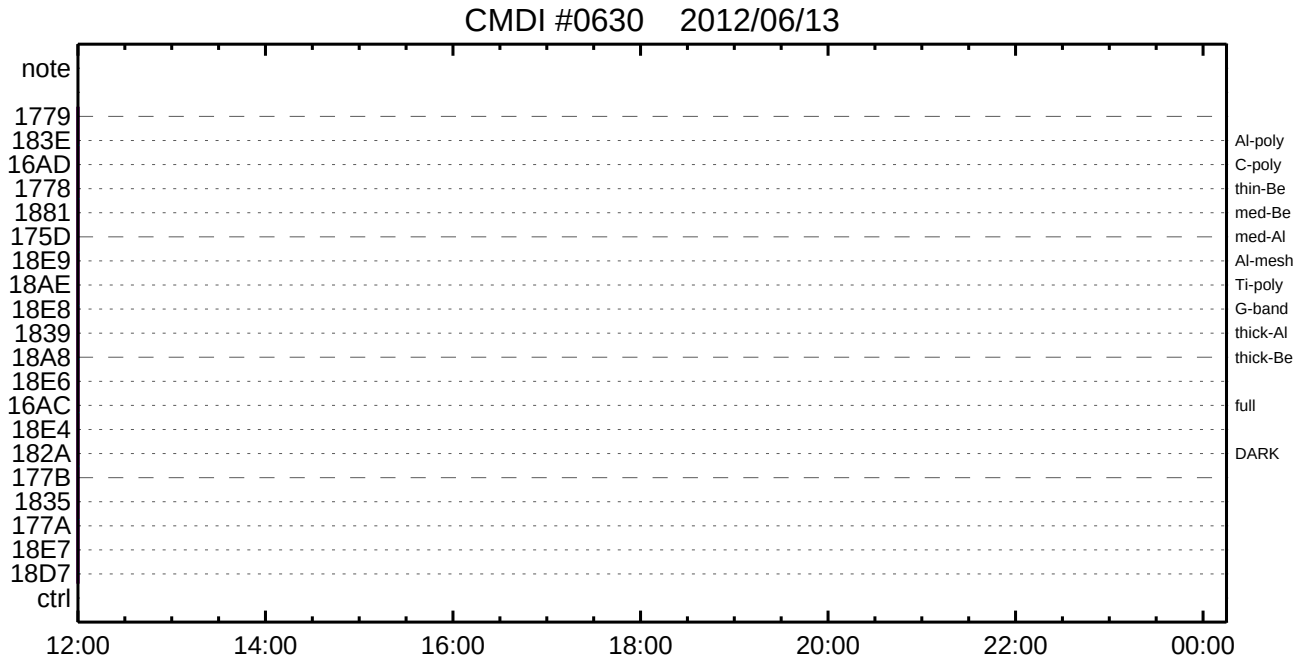
CMDI #0630 2012/06/13
note
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ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
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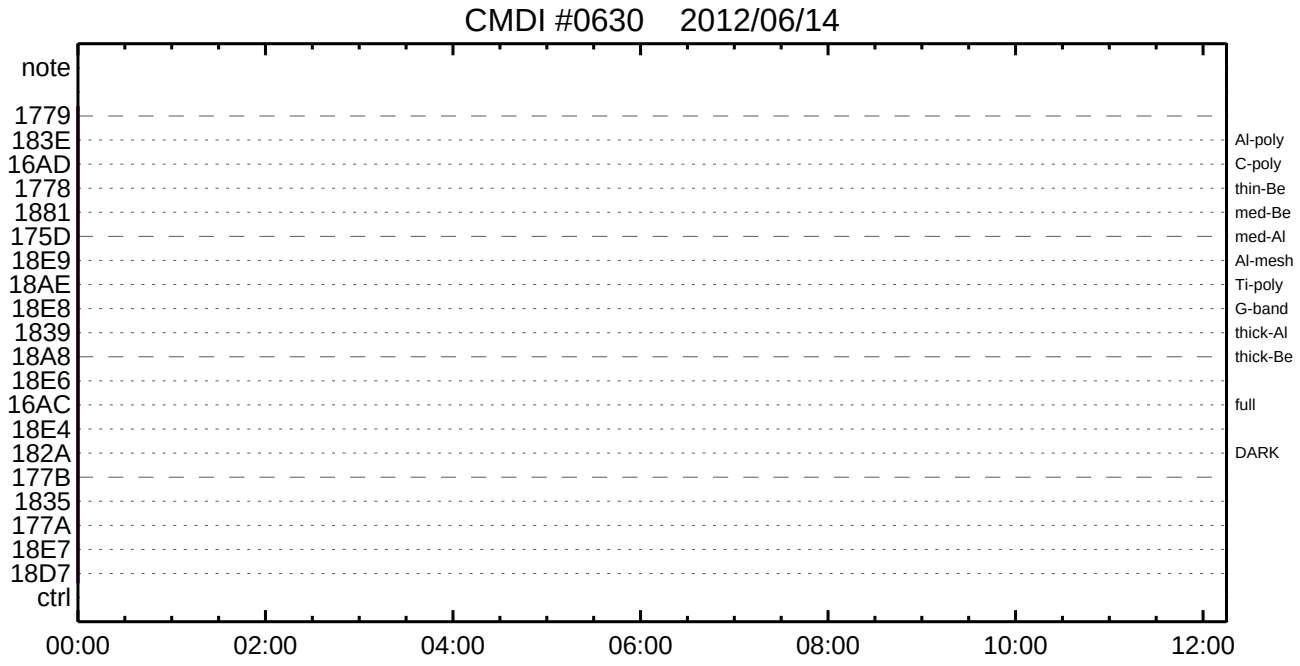
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18D7
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
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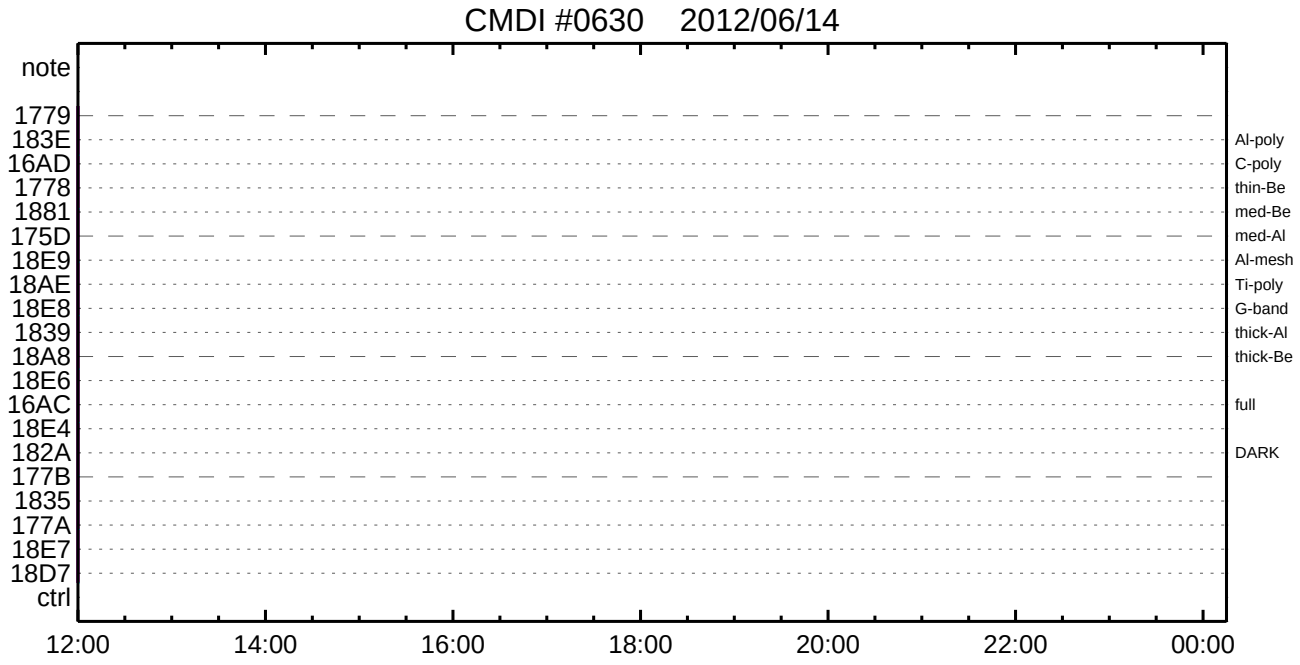
CMDI #0630 2012/06/14
note
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ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
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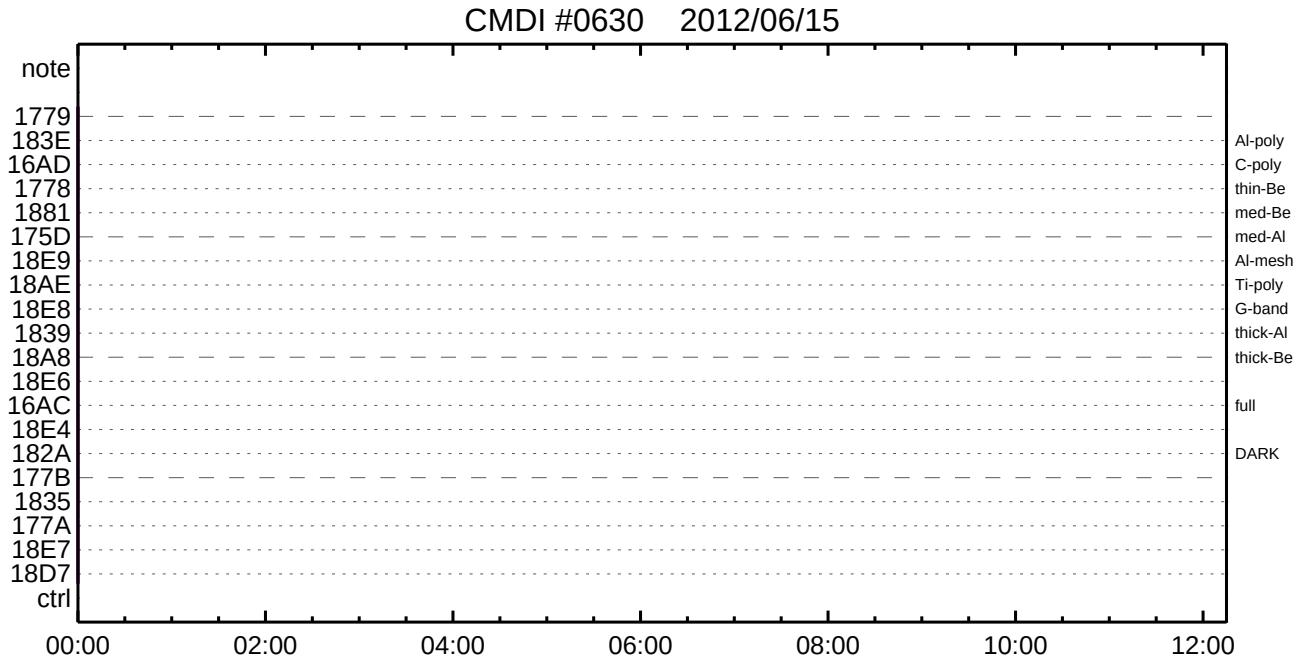
CMDI #0630 2012/06/15
note
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ctrl
Al-poly
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thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
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thick-Be
full
DARK
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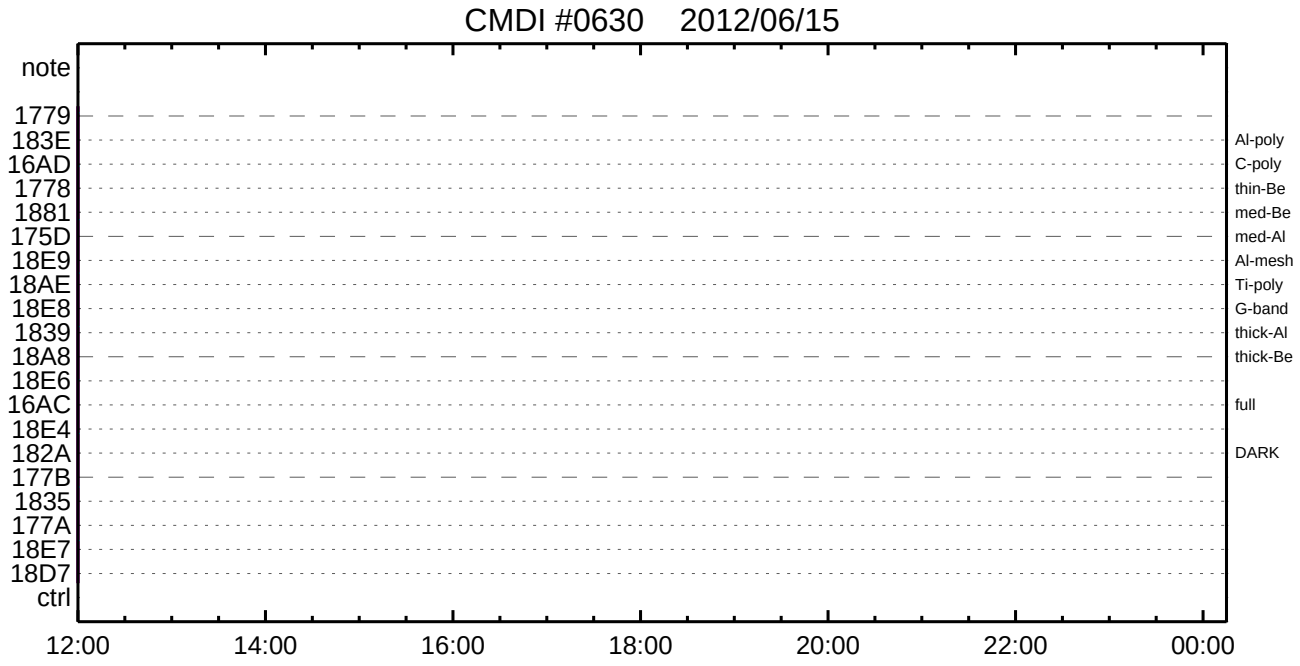
CMDI #0630 2012/06/15
note
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ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
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thick-Be
full
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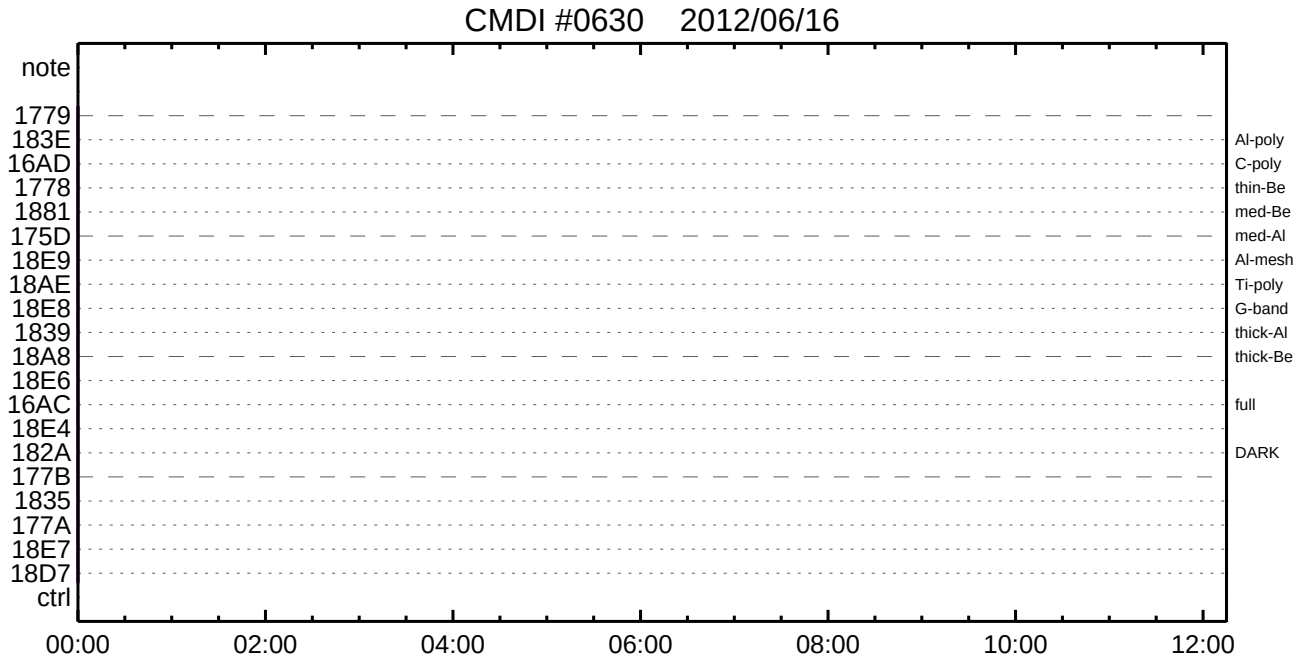
CMDI #0630 2012/06/16
note
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ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
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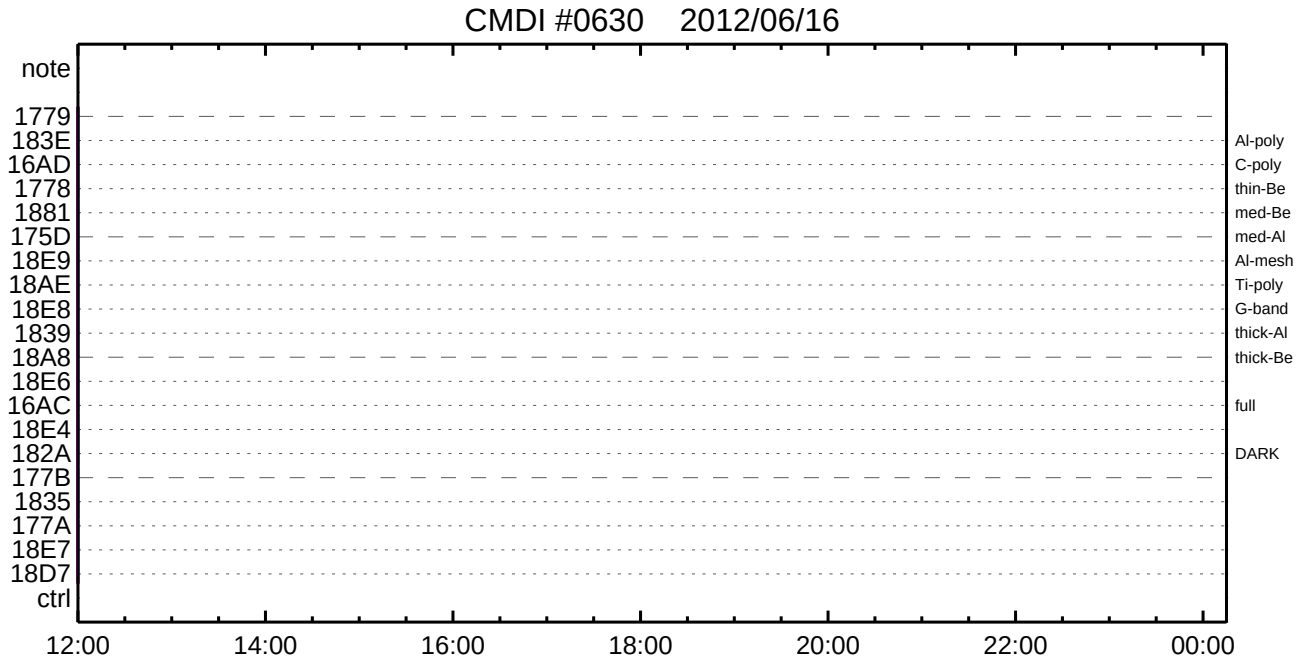
CMDI #0630 2012/06/16
note
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ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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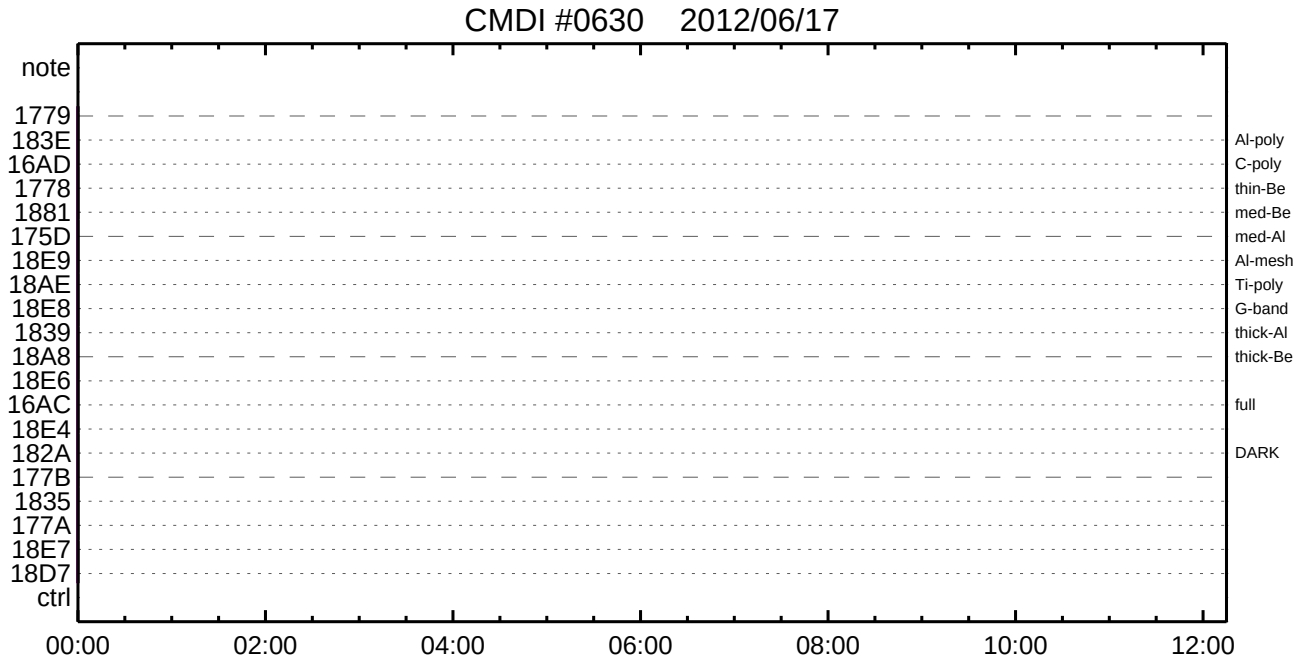
CMDI #0630 2012/06/17
note
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18D7
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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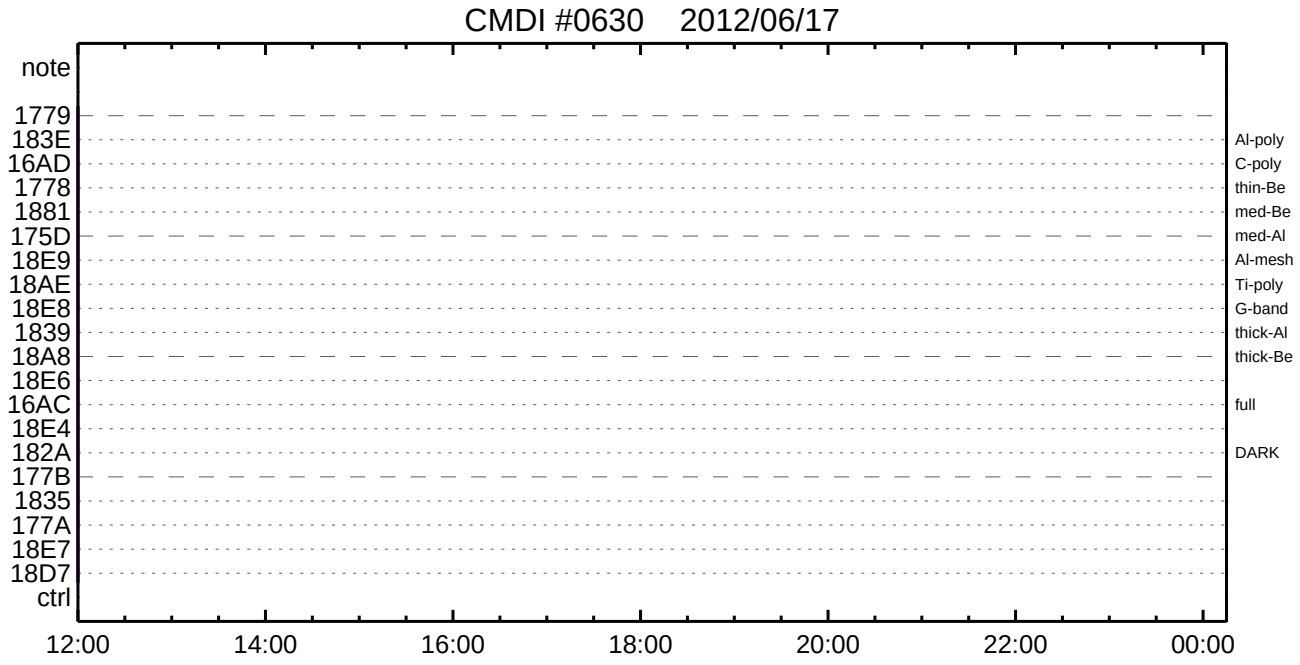
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note
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ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
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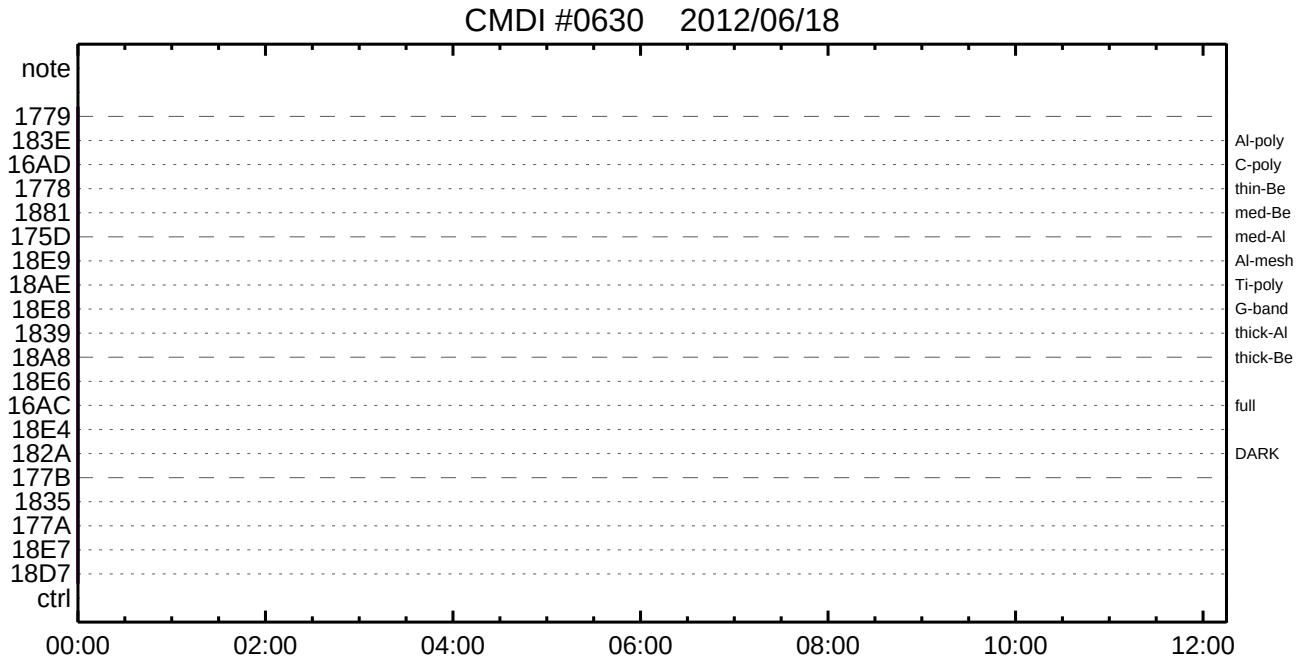
CMDI #0630 2012/06/18
note
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18E9
18AE
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177A
18E7
18D7
ctrl
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
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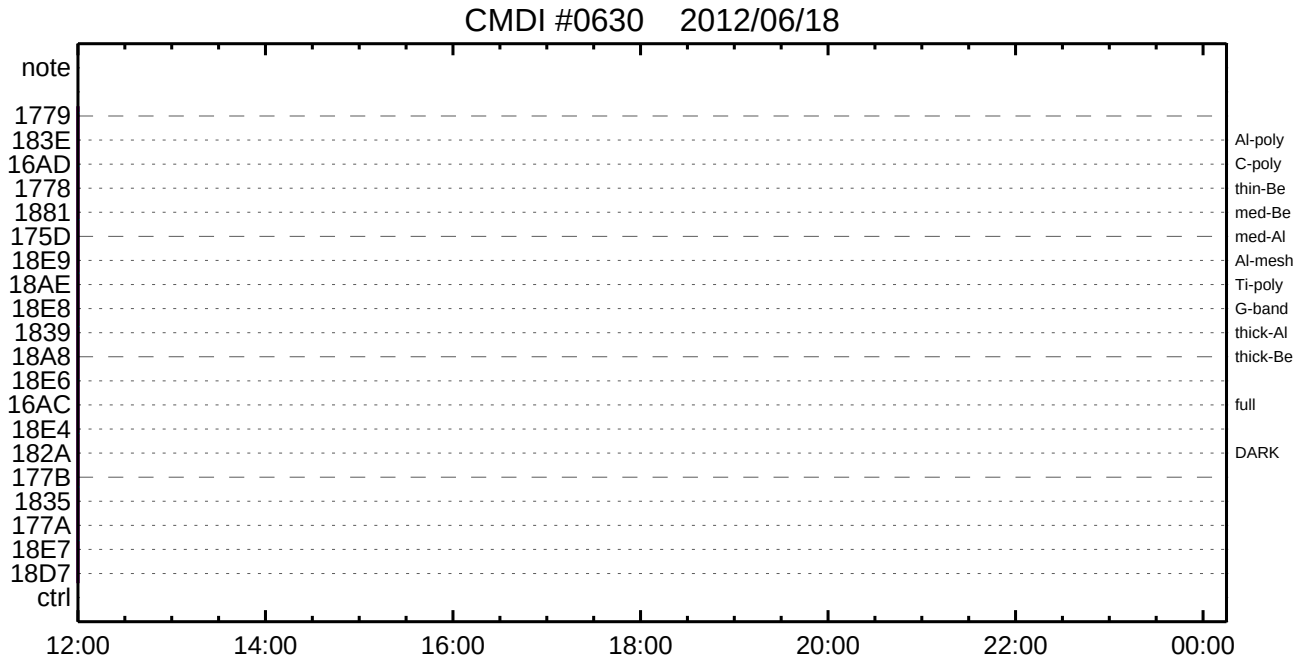
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18E7
18D7
ctrl
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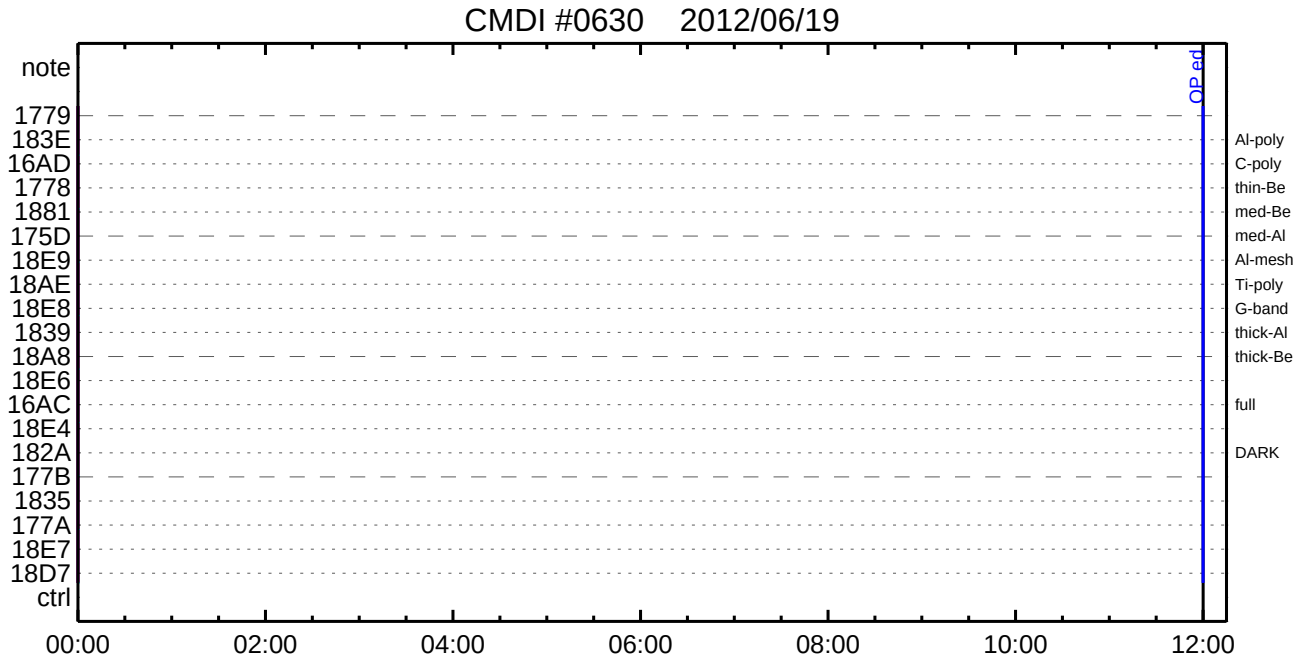
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK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note
OP ed
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177A
18E7
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ctrl
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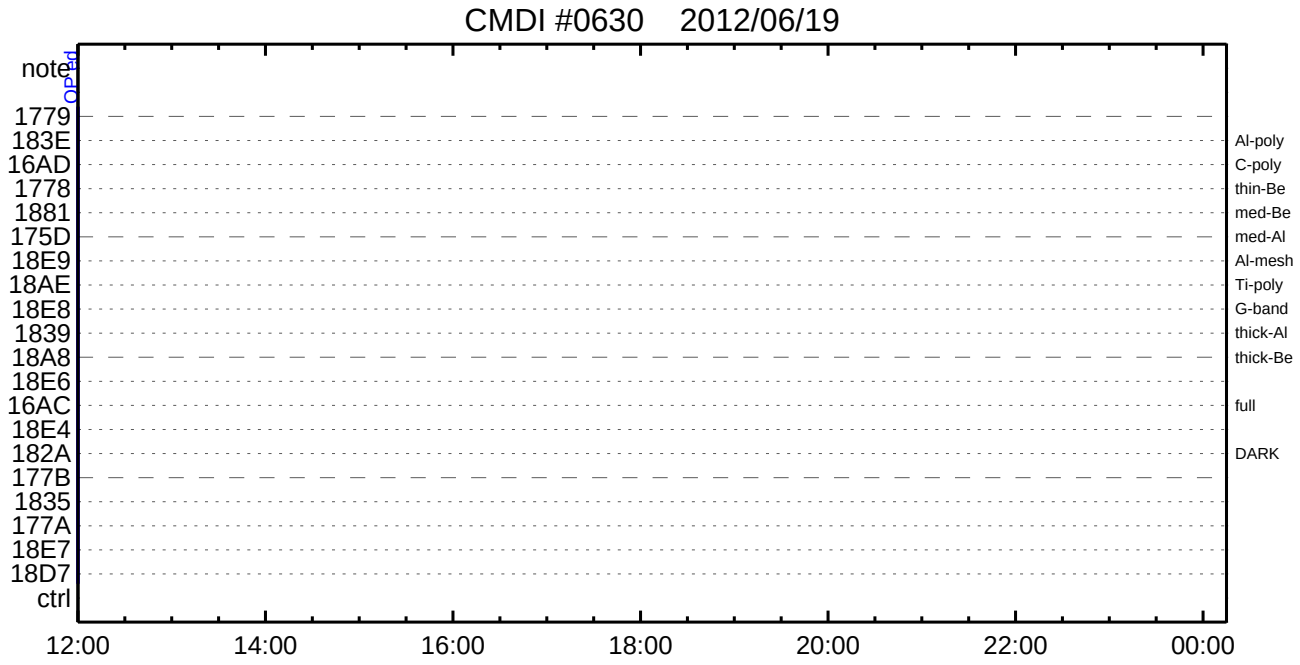
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK


CMDI #0630 2012/06/19
note
OP ed
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ctrl
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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-874 2012-05-15 12:45:56 289 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¡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. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0100     C. ****************************
0101     C.
0102   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0103   . S. OP    op-874:OP
0104     ()
0105   . S. OG    og-874: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 2012-05-15 09:10:00.0
0184     DC 01-B3 DHU_OP_STOP
0185     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0186     C.
0187  +. TI 2012-05-15 09:10:01.0
0188     DC 01-B4 DHU_OP_COPY
0189     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
0190     C.
0191  +. TI 2012-05-15 09:10:01.0
0192     DC 01-B5 DHU_OPOG_COPY
0193     C.                       ¢¢[HK1_TI_CMD_NUM]              EQ     1COUNTUP
```

```
0194     C.
0195   +. TI 2012-05-15 09:14:59.5
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¡Ê¼ý½¸¥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. ********************************
0239     C.  SOT TI command set
0240     C. ********************************
0241     C. Execute, after the success of OP upload.
0242   +. TI 2012-05-15 09:14:16.0
0243     DC 07-F0 MDP_SOT_MODE_STBY
0244     BC       (41)
0245    . C. ------------------------------------
0246     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0247     C. ------------------------------------
0248     C. ************ SOT END ***********
0249    . C. Stop EIS observation and temporarily disable EIS mode changes
0250     C.
0251     C.
0252     C. ********** Start EIS operation (TI set) **********
0253     C. Execute, after the success of OP upload.
0254     C. Set EIS TI-commands
0255   +. TI 2012-05-15 09:14:30.0
0256     DC 07-FC EIS_MODE_MANU
0257     BC       (21 02)
0258   +. TI 2012-05-15 09:14:40.0
0259     DC 07-FC EIS_MODE_CHG_DIS
0260     BC       (22)
0261    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
0262     C. ************ End EIS operation (TI set) ***********
0263     C.
0264     C.
0265     C.
0266     C. ************ XRT START ***********
0267     C. Execute, after the success of OP upload.
0268   +. TI 2012-05-15 09:14:00.0
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-875 2012-05-15 12:45:56 91 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. ***** AOCS Commands (Orbital Element Update) *****
0046     C. Update the orbital element
0047  +. DC 02-50 AOCU_ORB_PRPGT_START
0048     BC       (16)
0049  +  DC 02-8E AOCU_ORB_UPD
0050     C.
0051     C.       <A_ORB>[ORBIT] EPC = 1580361.9 +- 1.0 (s) [ ]
0052     C.
0053   . C.
0054   . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0055  +. DC 07-FC EIS_MODE_MANU
0056     BC       (21 02)
0057   . C. Verify EIS in MANUAL mode
0058   . C. Estimated OBSTBL upload time is 27s
0059     C. ********************************
0060     C. EIS START OBSTBL LOAD
0061     C. ********************************
0062   . S. RAM   ram-820:EIS_OBSTBL
0063     ()
0064  +. DC 07-FC EIS_DUMP_OBSTBL
0065     BC       (07 07 07 00 00 70 00)
0066     C.
0067     C. Execute, after the success of OBSTBL upload.
0068     C. Set EIS TI-commands
0069  +. TI 2012-05-15 09:14:50.0
0070     DC 07-FC EIS_MODE_CHG_ENA
0071     BC       (20)
0072   . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0073     C. ********************************
0074     C. EIS END OBSTBL LOAD
0075     C. ********************************
0076     C.
0077   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0078     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0079   . S. DC-BC dcbc-402:DCBC
0080     (MDP_known_event)
0081     C.
0082     C.
0083   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0084   . S. DC-BC dcbc-153:DCBC
0085     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0086     C.
0087     C.
0088   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0089     C.
0090   . C. *********** LOS ***********
0091     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-876 2012-05-15 12:45:56 158 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¤¼ºÇÔ¤•¤¿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.  SOT table upload
0016     C. ********************************
0017   . C. < Stop FG table >
0018   +. DC 07-F0 MDP_FG_CTRL_MANU
0019     BC       (51)
0020   . C. ------------------------------------
0021     C.  MDP_FG_CTRL_MODE      = MANU    [ ]
0022     C. ------------------------------------
0023     C.
0024   . C. <Upload FG Observation Table>
0025   . S. RAM   ram-267:MDP_OBS_F
0026     ()
0027     C.
0028   . C. < Dump RAMID=MDP_OBS_F >
0029   +. DC 07-F0 MDP_DUMP_FGTBL
0030     BC       (82 07 00 00 00 38 b8)
0031     C. ------------------------------------
0032     C.  MDP_OBS_F verify = OK/NG        [ ]
0033     C. ------------------------------------
0034     C.
0035   . C. < Upload DPL table >
0036     C.
0037     C. ¥¢¥Ã¥×¥í¡¼¥É¤ÎÁ°¤ËSTS_CHK¤òOFF¤Ë¤¹¤ë
0038     C.
0039   . S. RAM   ram-271:MDP_DPL
0040     ()
0041     C.
0042   . C. < Dump RAMID=MDP_DPL >
0043   +. DC 07-F0 MDP_DUMP_FGTBL
0044     BC       (82 07 00 38 b8 00 40)
0045     C. ------------------------------------
0046     C.  MDP_DPL verify          = OK    [ ]
0047     C. ------------------------------------
0048     C.
0049     C. STS_CHK¤òON¤Ë¤¹¤ë
0050     C.
0051   . C. < Update MDP DSC PAR1 >
0052   +. DC 07-F0 MDP_DSC_PAR1_UPDATE
0053     BC       (4c)
0054     C.  MDP_CMD_CODE          = F04C0700[ ]
0055     C.  MDP_CMD_CNT        (count-up 1) [ ]
0056     C. ------------------------------------
0057     C.
0058   . C.
0059     C. ********************************
0060     C.  SOT TI command set
0061     C. ********************************
0062     C. Execute, after the success of TBL upload.
0063   +. TI 2012-05-15 09:14:18.0
0064     DC 07-F0 MDP_SOT_MODE_OBSV
0065     BC       (40)
0066   . C. ------------------------------------
0067     C.   HK1_TI_CMD_NUM       = 1 CNTUP [ ]
0068     C. ------------------------------------
0069     C.
0070     C.
0071     C. ************ XRT START ************
0072     C.
0073   +. DC 07-F0 MDP_XRT_CTRL_MANU
0074     BC       (c1)
0075   +  DC 07-F0 MDP_XRT_MODE_STBY
0076     BC       (c3)
0077   . C. ----------- Success Verify ?             OK / NG____
0078     C.
0079     C. XRT Obs. Table Upload
0080   . S. RAM   ram-291:MDP_OBS_X
0081     ()
0082     C.
0083   +. DC 07-F0 MDP_DUMP_XRTTBL
0084     BC       (84 07 00 00 00 3a d4)
0085   . C. ----------- Comparison Check ?                      OK / ERR ____
0086     C.
0087     C.
0088   +. DC 07-F0 MDP_XRT_ROI_SET
0089     BC       (cd 01 b1 b1 04 04)
0090   +  DC 07-F0 MDP_XRT_ROI_SET
0091     BC       (cd 02 b1 b1 08 08)
0092   +  DC 07-F0 MDP_XRT_ROI_SET
0093     BC       (cd 03 b1 b1 08 08)
0094   +  DC 07-F0 MDP_XRT_ROI_SET
0095     BC       (cd 04 b1 b1 06 06)
```

```
0096  +  DC 07-F0 MDP_XRT_ROI_SET
0097     BC       (cd 05 85 83 06 06)
0098  +  DC 07-F0 MDP_XRT_ROI_SET
0099     BC       (cd 06 85 83 06 06)
0100  +  DC 07-F0 MDP_XRT_ROI_SET
0101     BC       (cd 07 80 80 20 20)
0102  +  DC 07-F0 MDP_XRT_ROI_SET
0103     BC       (cd 08 80 60 20 18)
0104  +  DC 07-F0 MDP_XRT_ROI_SET
0105     BC       (cd 09 a0 80 18 20)
0106  +  DC 07-F0 MDP_XRT_ROI_SET
0107     BC       (cd 0a c0 c0 10 10)
0108  +  DC 07-F0 MDP_XRT_ROI_SET
0109     BC       (cd 0b 40 c0 10 10)
0110  +  DC 07-F0 MDP_XRT_ROI_SET
0111     BC       (cd 0c 40 40 10 10)
0112  +  DC 07-F0 MDP_XRT_ROI_SET
0113     BC       (cd 0d c0 40 10 10)
0114  +  DC 07-F0 MDP_XRT_ROI_SET
0115     BC       (cd 0f 80 80 06 06)
0116  +  DC 07-F0 MDP_XRT_FLD_ENA
0117     BC       (d8)
0118  +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0119     BC       (c8)
0120  +  DC 07-F0 MDP_XRT_AEC_RESET
0121     BC       (d0)
0122  +  DC 07-F0 MDP_XRT_ARS_DIS
0123     BC       (d5)
0124  +  DC 07-F0 MDP_XRT_FLD_RESET
0125     BC       (da)
0126  +. DC 07-F0 MDP_XRT_QT_PROG_SET
0127     BC       (c4 13)
0128  +. DC 07-F0 MDP_XRT_FL_PROG_SET
0129     BC       (c5 02)
0130   . C. ---------- Success Verify ?            OK / NG ____
0131     C.
0132     C.
0133   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0134     C.
0135  +. DC 07-F0 MDP_XRT_MODE_OBSV
0136     BC       (c2)
0137  +. TI 2012-05-15 09:14:02.0
0138     DC 07-F0 MDP_XRT_MODE_OBSV
0139     BC       (c2)
0140   . C. ---------- Success Verify ?            OK / NG ____
0141     C.
0142     C. ************ XRT END ***********
0143     C.
0144   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0145     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0146   . S. DC-BC dcbc-402:DCBC
0147     (MDP_known_event)
0148     C.
0149     C.
0150   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0151   . S. DC-BC dcbc-153:DCBC
0152     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0153     C.
0154     C.
0155   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0156     C.
0157   . C. *********** LOS ***********
0158     C.
```

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

2012/05/15  09:24:54.0  XRT_CTRL_MANU_439_OG [0x1b7]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  09:25:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 02 00 00 00 00
2012/05/15  09:27:26.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2012/05/15  09:27:46.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2012/05/15  09:27:48.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2012/05/15  09:27:50.0  XRT_AEC_RESET_443_OG [0x1bb]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2012/05/15  09:27:52.0  XRT_ARS_DIS_431_OG [0x1af]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/15  09:27:54.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  09:27:56.0  XRT_QT_PROG_SET_417_OG [0x1a1]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2012/05/15  09:27:58.0  XRT_FL_PROG_SET_404_OG [0x194]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 02
2012/05/15  09:28:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  10:30:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  10:30:32.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  10:30:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/15  10:33:44.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/15  11:01:30.0  XRT_Custom_418_OG [0x1a2]
2012/05/15  11:02:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  12:13:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  12:13:02.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  12:13:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/15  12:16:14.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/15  12:40:00.0  XRT_Custom_418_OG [0x1a2]
2012/05/15  12:41:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  13:51:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  13:51:32.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  13:51:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/15  13:54:44.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/15  14:26:00.0  XRT_Custom_418_OG [0x1a2]
2012/05/15  14:27:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  15:30:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  15:30:02.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  15:30:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/15  15:33:14.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/15  16:15:00.0  XRT_Custom_418_OG [0x1a2]
2012/05/15  16:16:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  17:08:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  17:08:32.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  17:08:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/15  17:11:44.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/15  17:53:24.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  17:53:26.0  XRT_FOCUS_RECALIBRATE_428_OG [0x1ac]
                                XRT_FOCUS_RECAL      2 07-F8 78 00
2012/05/15  17:53:30.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2012/05/15  17:57:26.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2012/05/15  17:57:46.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2012/05/15  17:57:48.0  XRT_FLRCTRL_DIS_433_OG [0x1b1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2012/05/15  17:57:50.0  XRT_ARS_DIS_438_OG [0x1b6]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/15  18:00:28.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0f
2012/05/15  18:00:30.0  XRT_CTRL_AUTO_406_OG [0x196]
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                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  18:03:24.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  18:03:26.0  XRT_FOCUS_POSITION_447_OG [0x1bf]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2012/05/15  18:03:30.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM              5 02-76 00 ac 00 00 00
2012/05/15  18:03:46.0  XRT_QT_PROG_SET_416_OG [0x1a0]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 08
2012/05/15  18:03:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2012/05/15  18:03:50.0  XRT_FLRCTRL_DIS_446_OG [0x1be]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2012/05/15  18:03:52.0  XRT_ARS_DIS_448_OG [0x1c0]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/15  18:18:30.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  18:54:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  18:54:02.0  XRT_FLD_RESET_412_OG [0x19c]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  18:54:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/15  18:57:14.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/15  19:07:00.0  XRT_Custom_418_OG [0x1a2]
2012/05/15  19:08:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  20:03:24.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  20:03:26.0  XRT_FOCUS_POSITION_447_OG [0x1bf]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2012/05/15  20:03:30.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                    AOCU_NM              5 02-76 00 00 00 54 00
2012/05/15  20:03:46.0  XRT_QT_PROG_SET_410_OG [0x19a]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 12
2012/05/15  20:03:48.0  XRT_FLD_DIS_425_OG [0x1a9]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2012/05/15  20:03:50.0  XRT_FLRCTRL_DIS_446_OG [0x1be]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2012/05/15  20:03:52.0  XRT_ARS_DIS_448_OG [0x1c0]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/15  20:18:30.0  XRT_CTRL_AUTO_406_OG [0x196]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  20:32:30.5  XRT_CTRL_MANU_408_OG [0x198]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  20:32:32.5  XRT_FLD_RESET_412_OG [0x19c]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  20:32:34.5  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/15  20:35:44.5  XRT_PREFLR_STOP_424_OG [0x1a8]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/15  20:45:30.0  XRT_Custom_418_OG [0x1a2]
2012/05/15  20:46:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  22:03:24.0  XRT_CTRL_MANU_400_OG [0x190]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  22:03:30.0  AOCS_ORe-point_Start_1_OG [0x097]
                                    AOCU_NM              5 02-76 02 00 00 00 00
2012/05/15  22:41:54.0  XRT_CTRL_MANU_403_OG [0x193]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  22:41:56.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2012/05/15  22:42:16.0  XRT_FLD_ENA_411_OG [0x19b]
                                    MDP_XRT_FLD_ENA      1 07-F0 d8
2012/05/15  22:42:18.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2012/05/15  22:42:20.0  XRT_AEC_RESET_443_OG [0x1bb]
                                    MDP_XRT_AEC_RESET    1 07-F0 d0
2012/05/15  22:42:22.0  XRT_ARS_DIS_431_OG [0x1af]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/15  22:42:24.0  XRT_FLD_RESET_412_OG [0x19c]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  22:42:26.0  XRT_QT_PROG_SET_417_OG [0x1a1]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2012/05/15  22:42:28.0  XRT_FL_PROG_SET_404_OG [0x194]
                                    MDP_XRT_FL_PROG_SET  2 07-F0 c5 02
2012/05/15  22:42:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/15  23:42:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/15  23:42:32.0  XRT_FLD_RESET_412_OG [0x19c]
                                    MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/15  23:42:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                    MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/15  23:45:44.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                    MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/16  00:00:00.0  XRT_CTRL_MANU_442_OG [0x1ba]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/16  00:00:30.0  XRT_TCIB_XRT_S_HTR_A_ENA_427_OG [0x1ab]
                                    TCIB_XRT_S_HTR_A_ENA 0 04-BC
2012/05/16  08:00:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                    AOCU_NM              5 02-76 00 56 a7 01 26
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2012/05/16  10:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 00 00
2012/05/16  14:00:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                AOCU_NM              5 02-76 00 f4 e6 b1 cb
2012/05/17  00:00:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  00:00:02.0  XRT_TCIB_XRT_S_HTR_A_DIS_436_OG [0x1b4]
                                TCIB_XRT_S_HTR_A_DIS 0 04-C0
2012/05/17  04:09:54.0  XRT_CTRL_MANU_430_OG [0x1ae]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  04:10:00.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                AOCU_NM              5 02-76 00 2e f9 2e f9
2012/05/17  04:12:32.0  XRT_FOCUS_POSITION_429_OG [0x1ad]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2012/05/17  04:12:52.0  XRT_QT_PROG_SET_432_OG [0x1b0]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2012/05/17  04:12:54.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2012/05/17  04:12:56.0  XRT_FLRCTRL_DIS_433_OG [0x1b1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2012/05/17  04:12:58.0  XRT_ARS_DIS_431_OG [0x1af]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/17  04:13:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  04:19:54.0  XRT_CTRL_MANU_430_OG [0x1ae]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  04:20:00.0  AOCS_ORe-point_Start_8_OG [0x09e]
                                AOCU_NM              5 02-76 00 2e f9 d1 07
2012/05/17  04:22:32.0  XRT_FOCUS_POSITION_429_OG [0x1ad]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2012/05/17  04:22:52.0  XRT_QT_PROG_SET_445_OG [0x1bd]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2012/05/17  04:22:54.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2012/05/17  04:22:56.0  XRT_FLRCTRL_DIS_433_OG [0x1b1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2012/05/17  04:22:58.0  XRT_ARS_DIS_431_OG [0x1af]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/17  04:23:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  04:29:54.0  XRT_CTRL_MANU_430_OG [0x1ae]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  04:30:00.0  AOCS_ORe-point_Start_9_OG [0x09f]
                                AOCU_NM              5 02-76 00 d1 07 d1 07
2012/05/17  04:32:32.0  XRT_FOCUS_POSITION_429_OG [0x1ad]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2012/05/17  04:32:52.0  XRT_QT_PROG_SET_414_OG [0x19e]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2012/05/17  04:32:54.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2012/05/17  04:32:56.0  XRT_FLRCTRL_DIS_433_OG [0x1b1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2012/05/17  04:32:58.0  XRT_ARS_DIS_431_OG [0x1af]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/17  04:33:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  04:39:54.0  XRT_CTRL_MANU_430_OG [0x1ae]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  04:40:00.0  AOCS_ORe-point_Start_10_OG [0x0a0]
                                AOCU_NM              5 02-76 00 d1 07 2e f9
2012/05/17  04:42:32.0  XRT_FOCUS_POSITION_429_OG [0x1ad]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2012/05/17  04:42:52.0  XRT_QT_PROG_SET_435_OG [0x1b3]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 05
2012/05/17  04:42:54.0  XRT_FLD_DIS_402_OG [0x192]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2012/05/17  04:42:56.0  XRT_FLRCTRL_DIS_433_OG [0x1b1]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2012/05/17  04:42:58.0  XRT_ARS_DIS_431_OG [0x1af]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/17  04:43:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  04:59:54.0  XRT_CTRL_MANU_439_OG [0x1b7]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  05:00:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                AOCU_NM              5 02-76 00 f4 e6 b1 cb
2012/05/17  05:02:26.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2012/05/17  05:02:46.0  XRT_FLD_ENA_411_OG [0x19b]
                                MDP_XRT_FLD_ENA      1 07-F0 d8
2012/05/17  05:02:48.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2012/05/17  05:02:50.0  XRT_AEC_RESET_443_OG [0x1bb]
                                MDP_XRT_AEC_RESET    1 07-F0 d0
2012/05/17  05:02:52.0  XRT_ARS_DIS_431_OG [0x1af]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/17  05:02:54.0  XRT_FLD_RESET_412_OG [0x19c]
                                MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/17  05:02:56.0  XRT_QT_PROG_SET_417_OG [0x1a1]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2012/05/17  05:02:58.0  XRT_FL_PROG_SET_404_OG [0x194]
                                MDP_XRT_FL_PROG_SET  2 07-F0 c5 02
2012/05/17  05:03:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
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                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  05:04:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  05:04:32.0  XRT_FLD_RESET_412_OG [0x19c]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/17  05:04:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/17  05:07:44.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/17  05:42:30.0  XRT_Custom_418_OG [0x1a2]
2012/05/17  05:43:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  05:59:54.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  05:59:56.0  XRT_FOCUS_POSITION_401_OG [0x191]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2012/05/17  06:00:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2012/05/17  06:00:16.0  XRT_FLD_DIS_402_OG [0x192]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2012/05/17  06:00:18.0  XRT_FLRCTRL_DIS_433_OG [0x1b1]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2012/05/17  06:00:20.0  XRT_ARS_DIS_438_OG [0x1b6]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/17  06:02:58.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0f
2012/05/17  06:03:00.0  XRT_CTRL_AUTO_406_OG [0x196]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  06:09:54.0  XRT_CTRL_MANU_439_OG [0x1b7]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  06:10:00.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                        AOCU_NM              5 02-76 00 f4 e6 b1 cb
2012/05/17  06:12:26.0  XRT_FOCUS_POSITION_409_OG [0x199]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2012/05/17  06:12:46.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2012/05/17  06:12:48.0  XRT_FLRCTRL_ENA_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2012/05/17  06:12:50.0  XRT_AEC_RESET_443_OG [0x1bb]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2012/05/17  06:12:52.0  XRT_ARS_DIS_431_OG [0x1af]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2012/05/17  06:12:54.0  XRT_FLD_RESET_412_OG [0x19c]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/17  06:12:56.0  XRT_QT_PROG_SET_417_OG [0x1a1]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2012/05/17  06:12:58.0  XRT_FL_PROG_SET_404_OG [0x194]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 02
2012/05/17  06:13:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  06:45:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  06:45:02.0  XRT_FLD_RESET_412_OG [0x19c]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/17  06:45:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/17  06:48:14.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/17  07:21:00.0  XRT_Custom_418_OG [0x1a2]
2012/05/17  07:22:00.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  08:24:30.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  08:24:32.0  XRT_FLD_RESET_412_OG [0x19c]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/17  08:24:34.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/17  08:27:44.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/17  08:59:30.0  XRT_Custom_418_OG [0x1a2]
2012/05/17  09:00:30.0  XRT_CTRL_AUTO_419_OG [0x1a3]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2012/05/17  10:06:00.0  XRT_CTRL_MANU_408_OG [0x198]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2012/05/17  10:06:02.0  XRT_FLD_RESET_412_OG [0x19c]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2012/05/17  10:06:04.0  XRT_PREFLR_STRT_422_OG [0x1a6]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2012/05/17  10:09:14.0  XRT_PREFLR_STOP_424_OG [0x1a8]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2012/05/17  10:39:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                        AOCU_NM              5 02-76 00 00 00 00 00
```