

## Period: 2025/04/26 11:28:00 - 2025/05/01 10:55:00

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| XOB #1D19: Synoptic 8 Filter w/ AI-mesh(3/128/723), AI-poly(5/181/1443), Thin-Be(24/512/4096), Thick-Be(32768), Med-AI(181/5795/32768), Med-Be(88/4096/32768) |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|
| Term                                                                                                                                                          |  | Pointing (x, y)   |  |  |  |  | Comment                    |  |  |  |  |  |  |  |  |  |
| 04/26 18:03:00 - 04/26 18:09:54                                                                                                                               |  | Fixed ( 0.0, 0.0) |  |  |  |  | synoptic                   |  |  |  |  |  |  |  |  |  |
| 04/27 06:22:00 - 04/27 06:30:00                                                                                                                               |  | Fixed ( 0.0, 0.0) |  |  |  |  | synoptic, shifted 19.0 min |  |  |  |  |  |  |  |  |  |
| PROG= 03                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s)                                                                                                                                                     |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Subr= 1                                                                                                                                                       |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 5                                                                                                                                                       |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-AI close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                               |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-AI close Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                               |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-AI close Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                               |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-AI close Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec                                                                |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/Ti-poly Open/thick-AI close Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec                                                                |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 55                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/AI-mesh Open/AI-mesh close Safe Norm 2ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                  |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/AI-mesh Open/AI-mesh close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/AI-mesh Open/AI-mesh close Safe Norm 707ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 98                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| AI-poly/Open AI-poly/Open close Safe Norm 5ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                  |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| AI-poly/Open AI-poly/Open close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| AI-poly/Open AI-poly/thick-AI close Safe Norm 1.41s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                            |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 76                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| thin-Be/Open thin-Be/Open close Safe Norm 24ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                 |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| thin-Be/Open thin-Be/Open close Safe Norm 500ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| thin-Be/Open thin-Be/Open close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 23                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 4.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=90 0 0 2.0sec                                                                     |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                    |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Subr= 2                                                                                                                                                       |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 41                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Open/thick-Be Open/thick-Be close Safe Norm 32.0s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 18                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| med-AI/Open med-AI/thick-AI close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| med-AI/Open med-AI/Open close Safe Norm 5.66s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                  |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| med-AI/Open med-AI/Open close Safe Norm 32.0s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                  |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 86                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| med-Be/Open Open/thick-AI close Safe Norm 86ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                 |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| med-Be/Open med-Be/Open close Safe Norm 4.00s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                  |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| med-Be/Open med-Be/Open close Safe Norm 22.6s Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec                                                                  |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| Seqn= 54                                                                                                                                                      |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| 1-time(s) 2.0sec                                                                                                                                              |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| AI-poly/Ti-poly AI-poly/thick-AI close Safe Norm 12ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec                                                          |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |
| AI-poly/Ti-poly AI-poly/thick-AI close Safe Norm 2.00s Obs 2x2 2048x2048 (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                                                        |  |                   |  |  |  |  |                            |  |  |  |  |  |  |  |  |  |

| XOB #1CC2: HOP361 - High cadence (8s thin-Be only) 384x384 at 1064 1048                |                                        |   |         |
|----------------------------------------------------------------------------------------|----------------------------------------|---|---------|
| Term                                                                                   | Pointing (x, y)                        |   | Comment |
| 04/26 18:13:00 - 04/27 03:59:54                                                        | Track ( 745.0, 164.6) @ 04/26 18:10:00 | # | AR obs. |
| <b>PROG= 08</b> <b>Inf.-time(s)</b><br>└ <b>Subr= 1</b> <b>1-time(s)</b> <b>2.0sec</b> |                                        |   |         |

|                |                 |                  |                  |                    |               |       |       |     |     |                      |       |            |          |        |
|----------------|-----------------|------------------|------------------|--------------------|---------------|-------|-------|-----|-----|----------------------|-------|------------|----------|--------|
| └              | <b>Seqn= 92</b> |                  | <b>1-time(s)</b> | <b>2.0sec</b>      |               |       |       |     |     |                      |       |            |          |        |
|                | Open/G-band     |                  | Open/G-band      | open               | Safe          | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|                | Open/G-band     |                  | Open/G-band      | close              | Safe          | Norm  | 1ms   | Obs | 1x1 | 384x384 (1064, 1048) | DPCM  | 0          | 0        | 2.0sec |
|                | Open/Ti-poly    |                  | Open/thick-Al    | close              | Safe          | Dark  | 16.0s | Obs | 1x1 | 384x384 (1064, 1048) | Q=98  | 0          | 0        | 2.0sec |
| <b>Subr= 2</b> |                 | <b>1-time(s)</b> | <b>2.0sec</b>    |                    |               |       |       |     |     |                      |       |            |          |        |
| └              |                 | <b>Seqn= 27</b>  |                  | <b>250-time(s)</b> | <b>8.0sec</b> |       |       |     |     |                      |       |            |          |        |
|                |                 | thin-Be/Open     | med-Be/Open      | close              | Safe          | Norm  | 1.00s | 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 #1D09: HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], Al-poly[5/181/1443], thin-Be[16/512/3897] with 512x512 G-band+Leak - 90min cad) + CME wat

| Term                            |  |                | Pointing (x, y)   |          |      |       |       | Comment   |     |                        |  |  |       |                     |
|---------------------------------|--|----------------|-------------------|----------|------|-------|-------|-----------|-----|------------------------|--|--|-------|---------------------|
| 04/27 04:41:30 - 04/27 05:32:30 |  |                | Fixed ( 0.0, 0.0) |          |      |       |       | # HOP 349 |     |                        |  |  |       |                     |
| PROG= 16 Inf.-time(s)           |  |                |                   |          |      |       |       |           |     |                        |  |  |       |                     |
| └ Subr= 1                       |  | 1-time(s)      |                   | 600.0sec |      |       |       |           |     |                        |  |  |       |                     |
| └ Seqn= 55                      |  | 1-time(s)      |                   | 2.0sec   |      |       |       |           |     |                        |  |  |       |                     |
| └┐                              |  | Open/Al-mesh   | Open/Al-mesh      | close    | Safe | Norm  | 2ms   | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └┐                              |  | Open/Al-mesh   | Open/Al-mesh      | close    | Safe | Norm  | 125ms | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └┐                              |  | Open/Al-mesh   | Open/Al-mesh      | close    | Safe | Norm  | 707ms | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └ Seqn= 98                      |  | 1-time(s)      |                   | 2.0sec   |      |       |       |           |     |                        |  |  |       |                     |
| └┐                              |  | Al-poly/Open   | Al-poly/Open      | close    | Safe | Norm  | 5ms   | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └┐                              |  | Al-poly/Open   | Al-poly/Open      | close    | Safe | Norm  | 177ms | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └┐                              |  | Al-poly/Open   | Al-poly/thick-Al  | close    | Safe | Norm  | 1.41s | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └ Seqn= 79                      |  | 1-time(s)      |                   | 2.0sec   |      |       |       |           |     |                        |  |  |       |                     |
| └┐                              |  | thin-Be/Open   | thin-Be/Open      | close    | Safe | Norm  | 16ms  | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └┐                              |  | thin-Be/Open   | thin-Be/Open      | close    | Safe | Norm  | 500ms | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └┐                              |  | thin-Be/Open   | thin-Be/Open      | close    | Safe | Norm  | 2.83s | Obs       | 2x2 | 2048x2048 (1024, 1024) |  |  | Q=95  | 0 0 2.0sec          |
| └ Seqn= 30                      |  | 1-time(s)      |                   | 2.0sec   |      |       |       |           |     |                        |  |  |       |                     |
| └┐                              |  | Open/G-band    | Open/G-band       | open     | Safe | Norm  | 1ms   | Obs       | 1x1 | 512x512 (1024, 1024)   |  |  | Q=90  | 0 0 2.0sec          |
| └┐                              |  | Open/G-band    | Open/G-band       | close    | Safe | Norm  | 1ms   | Obs       | 1x1 | 512x512 (1024, 1024)   |  |  | Q=95  | 0 0 2.0sec          |
| └ Subr= 2                       |  | 7-time(s)      |                   | 600.0sec |      |       |       |           |     |                        |  |  |       |                     |
| └ Seqn= 8                       |  | 1-time(s)      |                   | 2.0sec   |      |       |       |           |     |                        |  |  |       |                     |
| └┐                              |  | thin-Be/Open   | med-Be/Open       | close    | Safe | Norm  | 1.00s | Obs       | 4x4 | 2048x2048 (1024, 1024) |  |  | Q=98  | 3 0 2.0sec          |
| └┐                              |  | thin-Be/Open   | med-Be/Open       | close    | Safe | Norm  | 1.41s | Obs       | 4x4 | 2048x2048 (1024, 1024) |  |  | DPCM  | 2 0 2.0sec          |
| └ Seqn= 74                      |  | 1-time(s)      |                   | 2.0sec   |      |       |       |           |     |                        |  |  |       |                     |
| └┐                              |  | med-Be/Open    | med-Be/Open       | close    | Safe | Norm  | 500ms | Obs       | 4x4 | 2048x2048 (1024, 1024) |  |  | Q=98  | 3 0 2.0sec          |
| └┐                              |  | med-Be/Open    | med-Be/Open       | close    | Safe | Norm  | 2.00s | Obs       | 4x4 | 2048x2048 (1024, 1024) |  |  | Q=98  | 2 0 2.0sec          |
| └ Seqn= 6                       |  | 1-time(s)      |                   | 2.0sec   |      |       |       |           |     |                        |  |  |       |                     |
| └┐                              |  | Al-poly/Open   | Al-poly/Open      | close    | Safe | Norm  | 125ms | Obs       | 4x4 | 2048x2048 (1024, 1024) |  |  | Q=98  | 3 0 2.0sec          |
| └┐                              |  | Al-poly/Open   | Al-poly/Open      | close    | Safe | Norm  | 1.00s | Obs       | 4x4 | 2048x2048 (1024, 1024) |  |  | DPCM  | 2 0 2.0sec          |
| └ Seqn= 29                      |  | 1-time(s)      |                   | 2.0sec   |      |       |       |           |     |                        |  |  |       |                     |
| └┐                              |  | Open/Al-mesh   | Open/Al-mesh      | close    | Safe | Norm  | 125ms | Obs       | 4x4 | 2048x2048 (1024, 1024) |  |  | Q=98  | 3 0 2.0sec          |
| └┐                              |  | Open/Al-mesh   | Open/Al-mesh      | close    | Safe | Norm  | 250ms | Obs       | 4x4 | 2048x2048 (1024, 1024) |  |  | Q=98  | 2 0 2.0sec          |
|                                 |  | Default Filter | Thicker Filter    | VLS      | mode | image | Exp.  | CCD       | Bin | ROI: size (center)     |  |  | Comp. | AEC Buffer Interval |

\* \* \* \* \*

## Flare mode

\* \* \* \* \*

# XOB #1D30: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Be/thick), AEC 3, 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512x512 2x2) + GL

| Term                            |  | Pointing (x, y)                         |                  |         |      | Comment                                    |       |     |     |                      |       |            |          |        |  |
|---------------------------------|--|-----------------------------------------|------------------|---------|------|--------------------------------------------|-------|-----|-----|----------------------|-------|------------|----------|--------|--|
| 04/26 11:41:00 - 04/26 17:59:54 |  | Track ( 709.2, 168.7 ) @ 04/26 11:38:00 |                  |         |      | # OP start + 10min. AR 14064 observations. |       |     |     |                      |       |            |          |        |  |
| 04/26 18:13:00 - 04/27 03:59:54 |  | Track ( 745.0, 164.6 ) @ 04/26 18:10:00 |                  |         |      | # AR obs.                                  |       |     |     |                      |       |            |          |        |  |
| 04/27 04:41:30 - 04/27 05:32:30 |  | Fixed ( 0.0, 0.0)                       |                  |         |      | # HOP 349                                  |       |     |     |                      |       |            |          |        |  |
| PROG= 12 30-time(s)             |  |                                         |                  |         |      |                                            |       |     |     |                      |       |            |          |        |  |
| └ Subr= 1                       |  | 1-time(s)                               |                  | 2.0sec  |      |                                            |       |     |     |                      |       |            |          |        |  |
| └└ Seqn= 60                     |  | 1-time(s)                               |                  | 2.0sec  |      |                                            |       |     |     |                      |       |            |          |        |  |
|                                 |  | Al-poly/Open                            | thin-Be/Open     | close   | Safe | Norm                                       | 1ms   | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 0          | 0        | 2.0sec |  |
| └ Subr= 2                       |  | 20-time(s)                              |                  | 2.0sec  |      |                                            |       |     |     |                      |       |            |          |        |  |
| └└ Seqn= 11                     |  | 1-time(s)                               |                  | 2.0sec  |      |                                            |       |     |     |                      |       |            |          |        |  |
|                                 |  | Al-poly/Open                            | Al-poly/thick-Al | close   | Safe | Norm                                       | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |  |
| └└ Seqn= 73                     |  | 1-time(s)                               |                  | 10.0sec |      |                                            |       |     |     |                      |       |            |          |        |  |
|                                 |  | thin-Be/Open                            | med-Be/Open      | close   | Safe | Norm                                       | 125ms | Obs | 1x1 | 384x384 (1024, 1024) | Q=95  | 3          | 0        | 2.0sec |  |
|                                 |  | med-Be/Open                             | Open/thick-Al    | close   | Safe | Norm                                       | 250ms | 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 |  |
| └ Subr= 3                       |  | 1-time(s)                               |                  | 2.0sec  |      |                                            |       |     |     |                      |       |            |          |        |  |
| └└ Seqn= 10                     |  | 1-time(s)                               |                  | 2.0sec  |      |                                            |       |     |     |                      |       |            |          |        |  |
|                                 |  | med-Al/Open                             | med-Al/thick-Al  | close   | Safe | Norm                                       | 500ms | 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= 11                     |  | 1-time(s)                               |                  | 2.0sec  |      |                                            |       |     |     |                      |       |            |          |        |  |
|                                 |  | Al-poly/Open                            | Al-poly/thick-Al | close   | Safe | Norm                                       | 125ms | Obs | 2x2 | 512x512 (1024, 1024) | Q=95  | 2          | 0        | 2.0sec |  |
| └└ Seqn= 87                     |  | 1-time(s)                               |                  | 2.0sec  |      |                                            |       |     |     |                      |       |            |          |        |  |
|                                 |  | Open/G-band                             | Open/G-band      | open    | Safe | Norm                                       | 1ms   | Obs | 1x1 | 384x384 (1024, 1024) | Q=98  | 0          | 0        | 2.0sec |  |
|                                 |  | Open/G-band                             | Open/G-band      | close   | Safe | Norm                                       | 1ms   | 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 |  |
|                                 |  | Default Filter                          | Thicker Filter   | VLS     | mode | image                                      | Exp.  | CCD | Bin | ROI: size (center)   | Comp. | AEC Buffer | Interval |        |  |

\* \* \* \* \*

## Active Region Search

\* \* \* \* \*

NOT USED

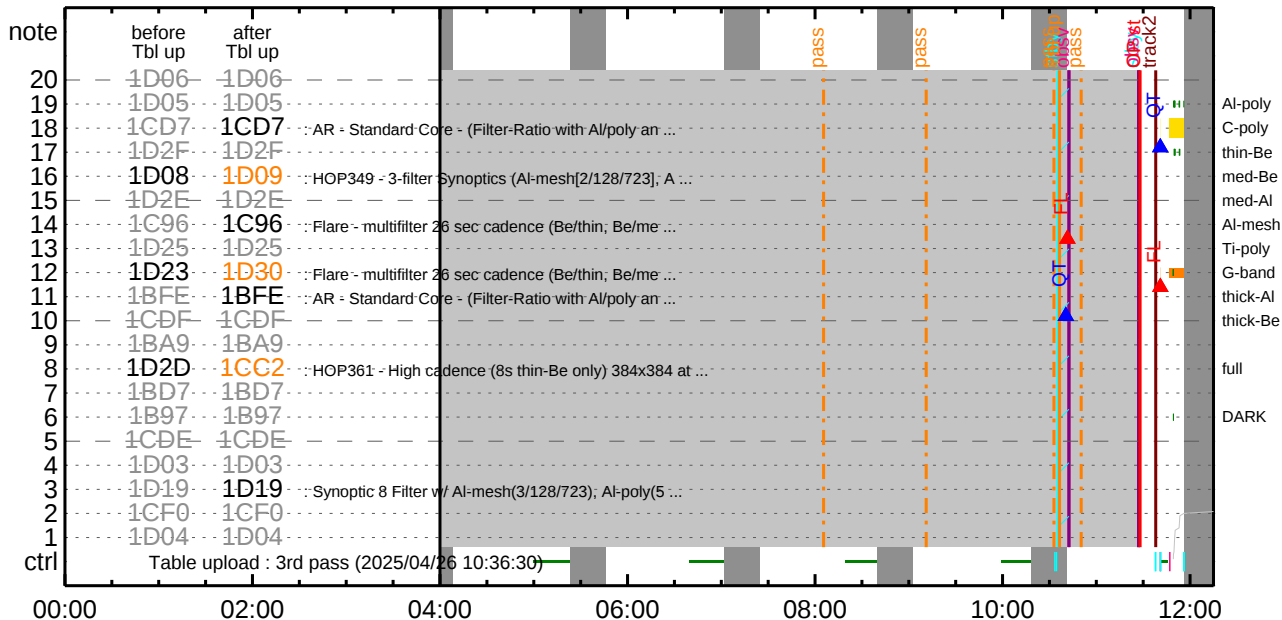
\* \* \* \* \*

## Flare Detection

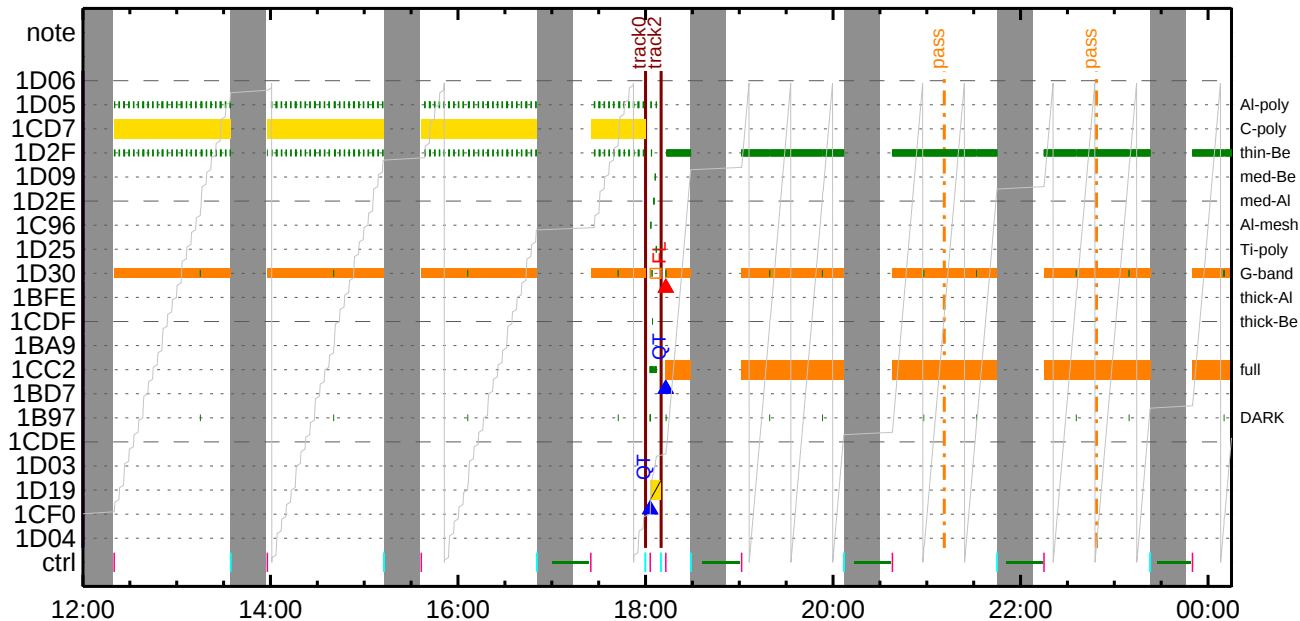
\* \* \* \* \*

| FLD Patrol                      |                |       |                                                  |       |      |     |     |                    |         |            |          |  |
|---------------------------------|----------------|-------|--------------------------------------------------|-------|------|-----|-----|--------------------|---------|------------|----------|--|
| Term                            |                |       | Pointing (x, y)                                  |       |      |     |     |                    | Comment |            |          |  |
| 04/26 10:37:30 - 04/26 18:00:18 |                |       | cannot be identified                             |       |      |     |     |                    |         |            |          |  |
| 04/26 18:10:18 - 04/27 06:19:18 |                |       | Track ( 745.0, 164.6) @ 04/26 18:10:00 # AR obs. |       |      |     |     |                    |         |            |          |  |
| AI-poly/Open                    | AI-poly/Open   | close | Safe                                             | Norm  | 4ms  | Obs | 8x8 |                    | Q=50    | 30sec      |          |  |
| Default Filter                  | Thicker Filter | VLS   | mode                                             | image | Exp. | CCD | Bin | ROI: size (center) | Comp.   | AEC Buffer | Interval |  |

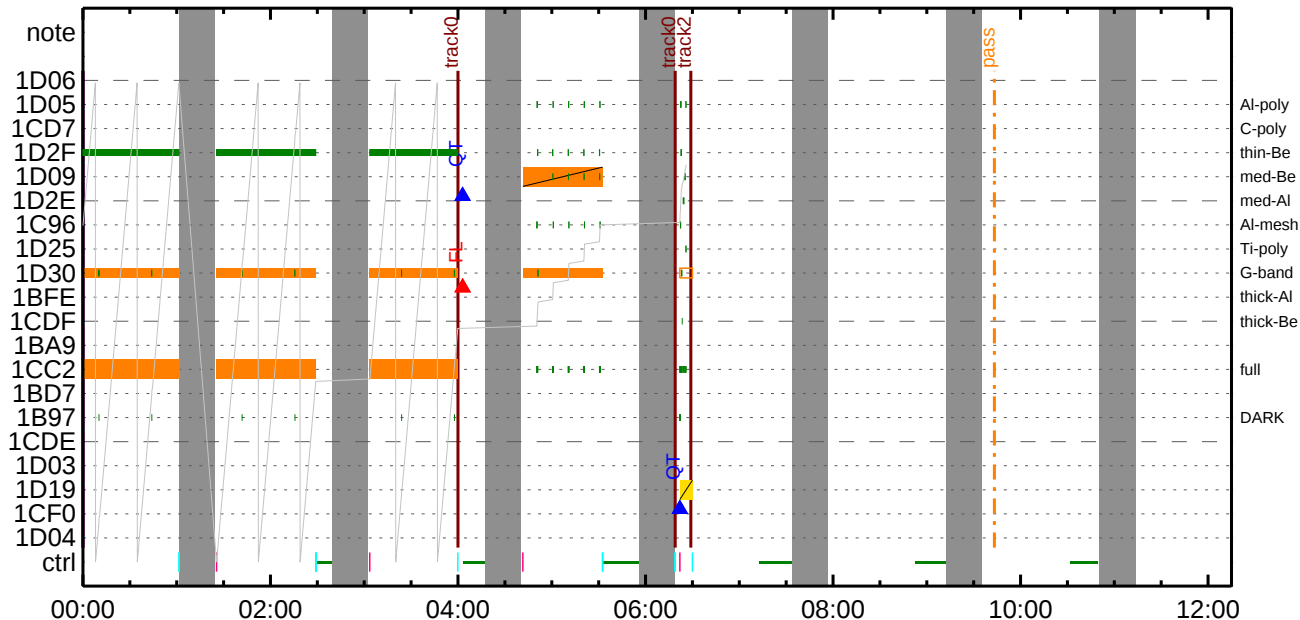
# CMDI #0550 2025/04/26



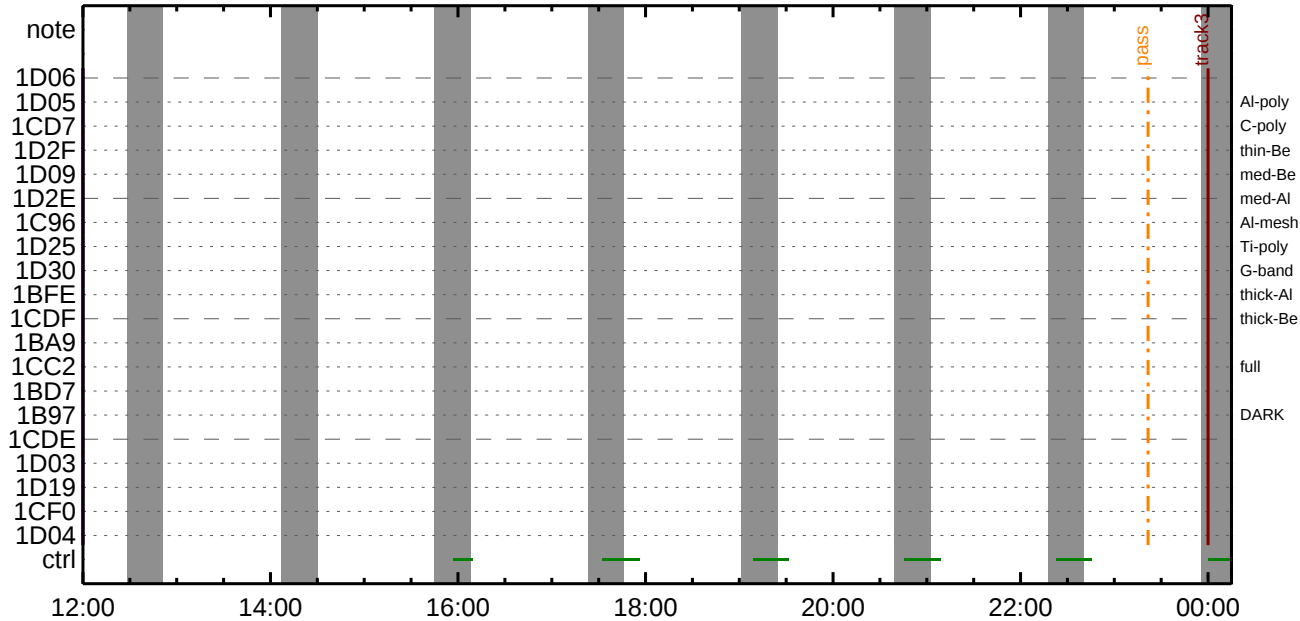
# CMDI #0550 2025/04/26



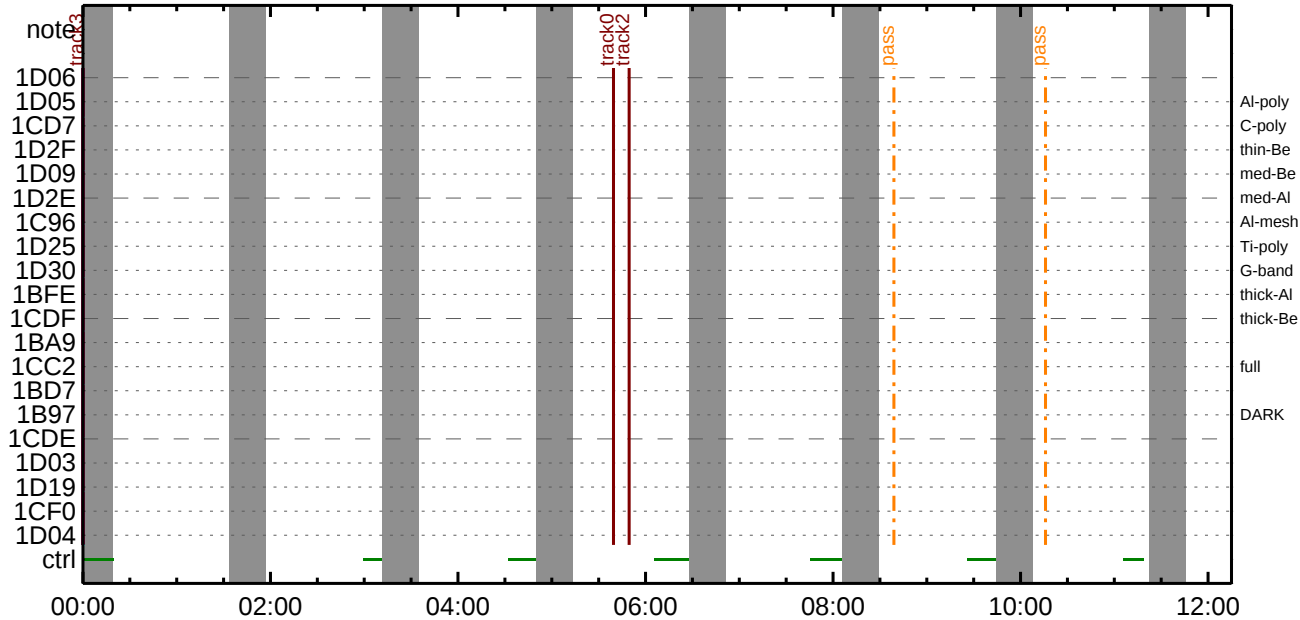
# CMDI #0550 2025/04/27



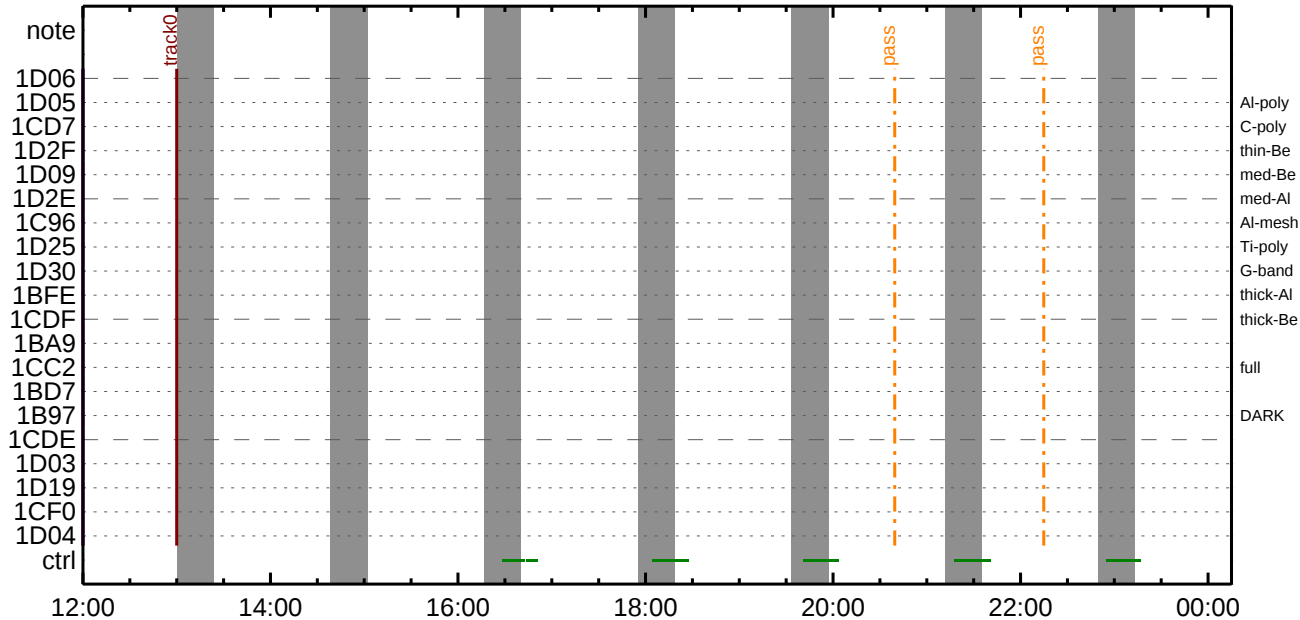
# CMDI #0550 2025/04/27



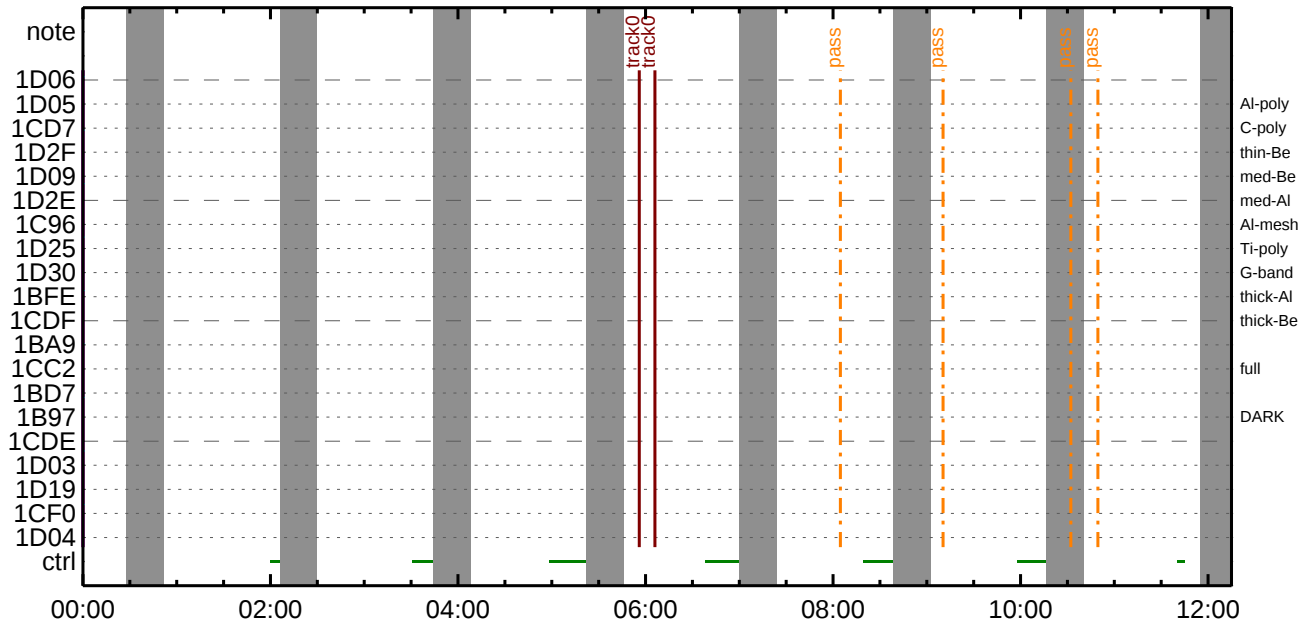
# CMDI #0550 2025/04/28



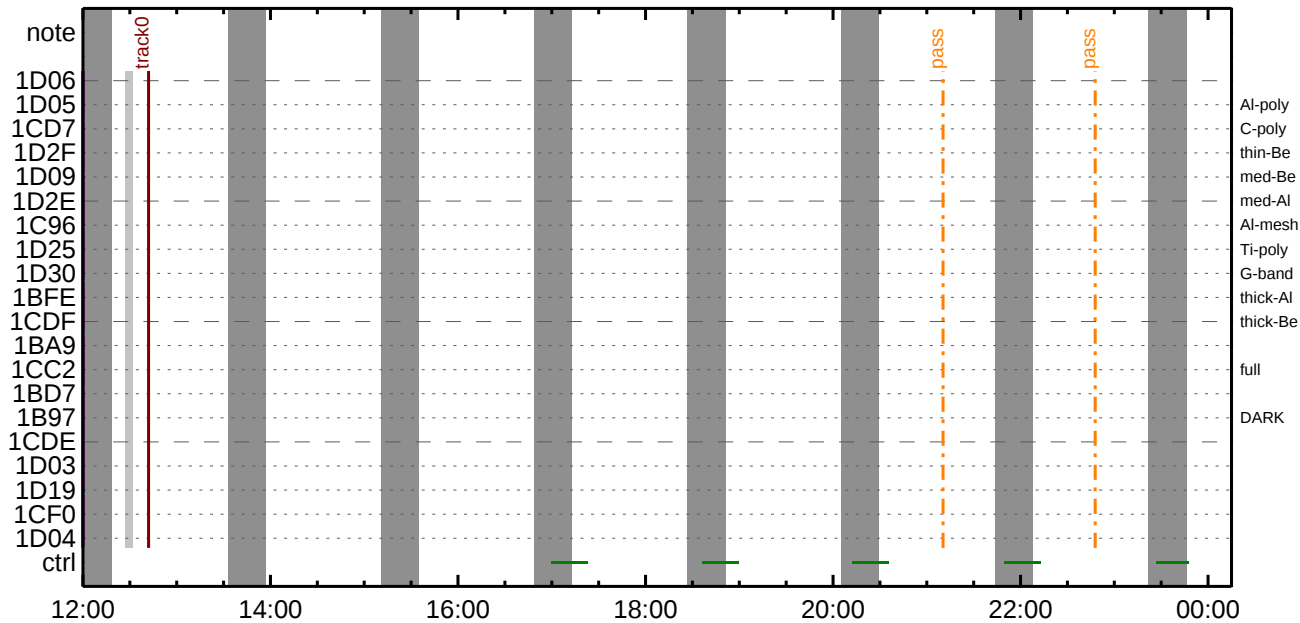
# CMDI #0550 2025/04/28



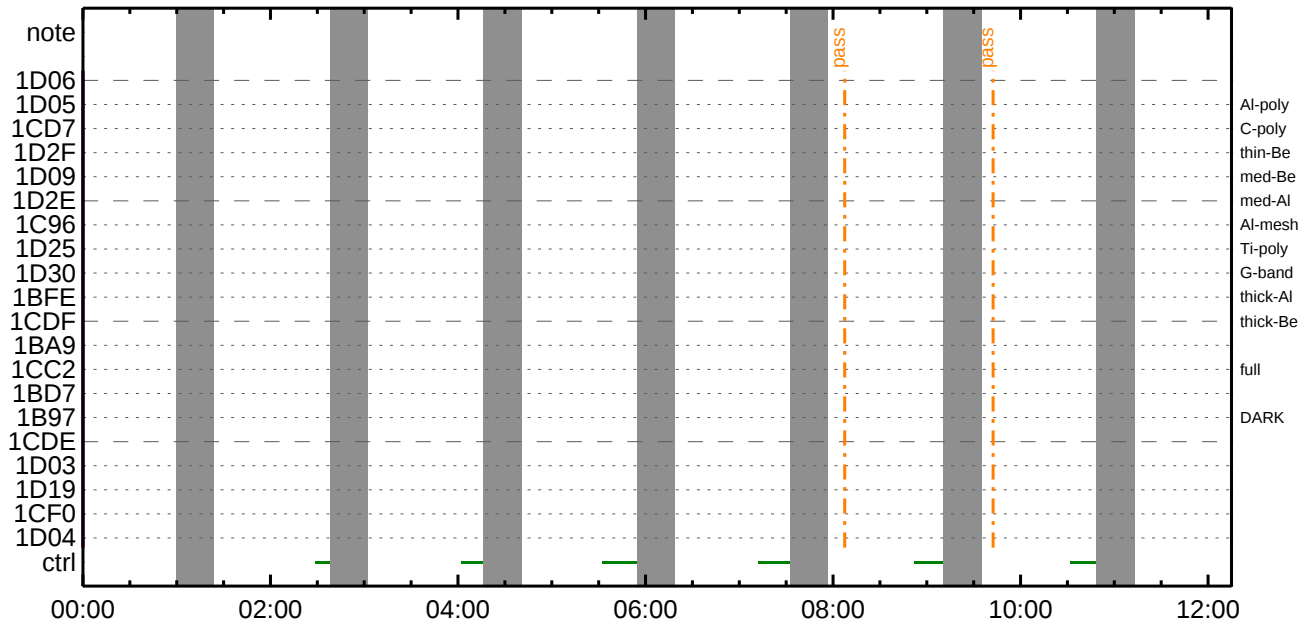
# CMDI #0550 2025/04/29



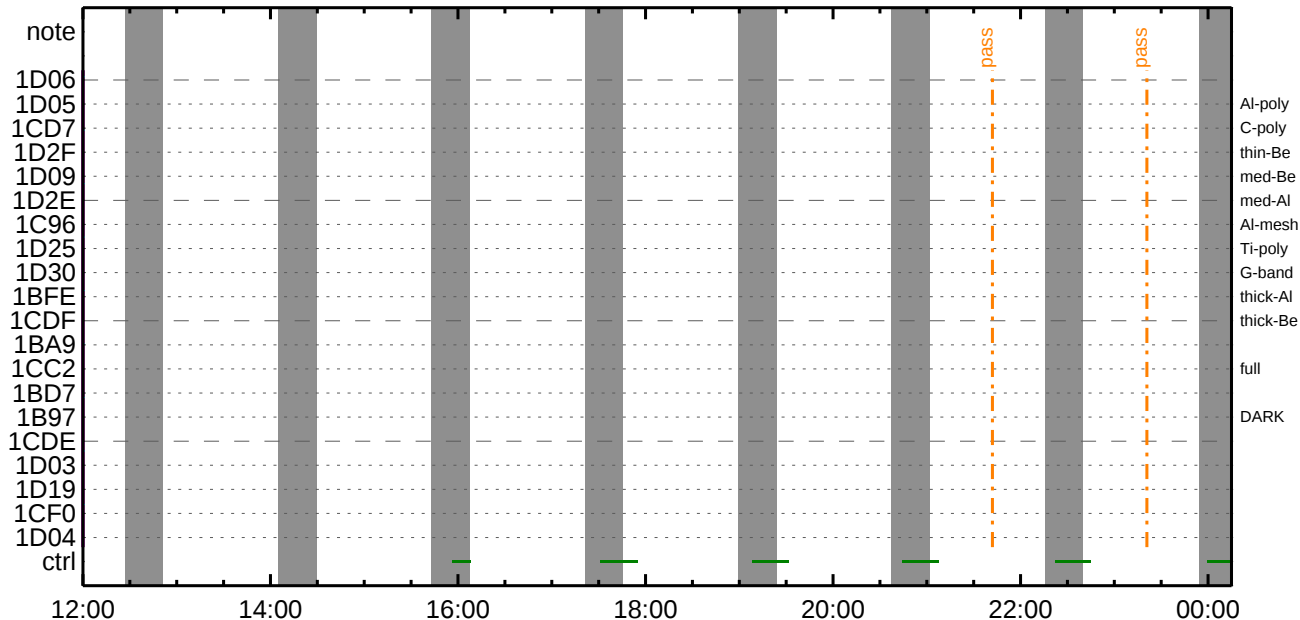
# CMDI #0550 2025/04/29



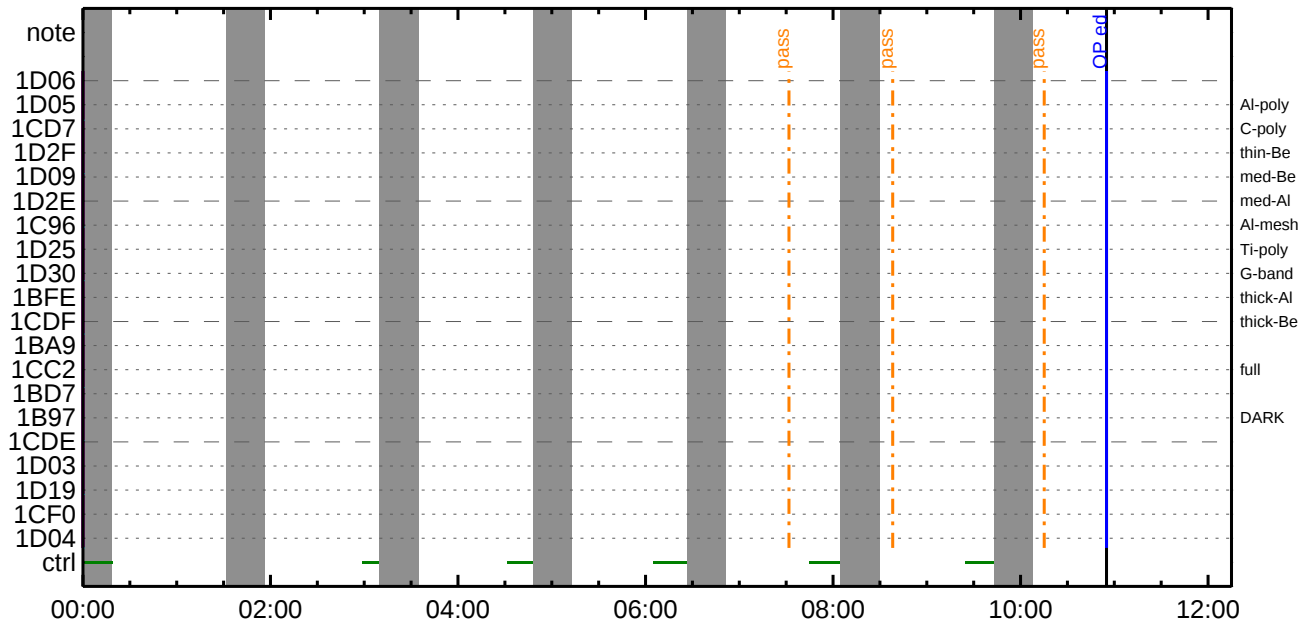
# CMDI #0550 2025/04/30



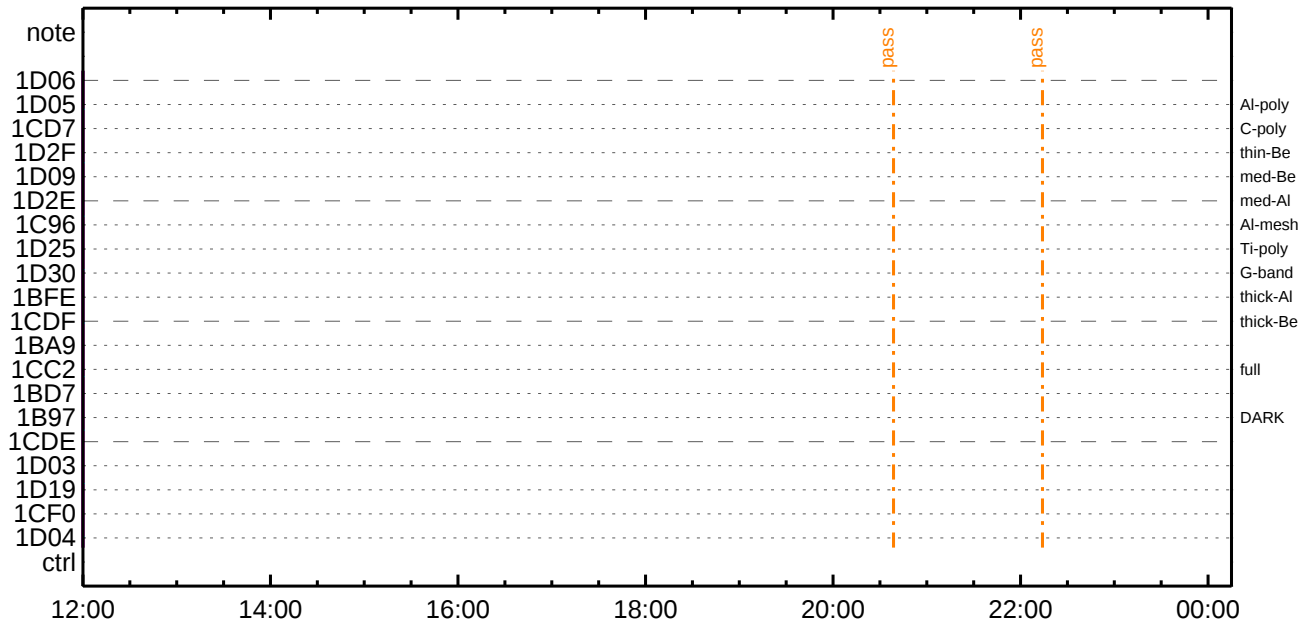
# CMDI #0550 2025/04/30



# CMDI #0550 2025/05/01



# CMDI #0550 2025/05/01



(a) Spacecraft Operation Procedure (real-commands)

```
main-237 2025-04-26 11:16:08 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOS¥Á¥$¥Á¥~¼Ä»Ü;ä
0005 C.
0006 C. ¥À¥ß;¼¥³¥Ð¥ó¥ÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ë¼¿¼Ä¼•µ°Æ»Í×ÁÇ¼Í¥Ç¥Á¥×¥í;¼¥É;ËËè¼µ•ííË;ËËË¼°Ç®¼•¼¿¼¹Ç¼Í;ÇÀ®,ù¼¹¼è¼µ¼ÇÁ÷¿®¼•¼Ë¼µ¼³¼È;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OG¥í;¼¥É;¥Á¥ó¥×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OG¥í;¼¥É;ä
0019 . S. OP op-237:OP
0020 ()
0021 . S. OG og-237:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPíî°è¥Á¥ó¥×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. ÇÇ[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. ÇÇ[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. ÇÇ[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. ÇÇ[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. ÇÇ[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. ÇÇ[HK1_PKT_FORM_NO] EQ 7
0036 C. ÇÇ[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. ÇÇ[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. ÇÇ[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. ÇÇ[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ¥À¥ó¥×¼°áî»¼³íÇ$
0041 C. ÇÇ[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOG¼í¾Ë¹Ç•è²íOK¼³íÇ$
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;$ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. ÇÇ[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. ÇÇ[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. ÇÇ[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. ÇÇ[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. ÇÇ[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. ÇÇ[HK1_PKT_FORM_NO] EQ 7
0055 C. ÇÇ[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. ÇÇ[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. ÇÇ[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. ÇÇ[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ¥À¥ó¥×¼°áî»¼³íÇ$
0060 C. ÇÇ[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOG¼í¾Ë¹Ç•è²íOK¼³íÇ$
0062 C.
0063 C. NMOG(0x210000-0x2100FF;$ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. ÇÇ[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. ÇÇ[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. ÇÇ[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. ÇÇ[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. ÇÇ[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. ÇÇ[HK1_PKT_FORM_NO] EQ 7
0074 C. ÇÇ[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. ÇÇ[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. ÇÇ[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. ÇÇ[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ¥À¥ó¥×¼°áî»¼³íÇ$
0079 C. ÇÇ[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG, RAM ID=OP¼í¾Ë¹Ç•è²íOK¼³íÇ$
0081 C.
0082 . C. ***** °Ë²¼¼í¾Ä¹¼¼°¼ËË~¼°Á÷¿® (¾å¼µ-¥À¥ó¥×¼°è¼Ç¼¼°Á¼Ä¼¼Ç¼°¼¼°¼è¼¼¹Ç¼Ç¼¼) *****
0083 C. DHU¥ä;¼¥É;Ë¼ý½, ¥í;¼¥É;Ë¼òíá¼¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. ÇÇ[HK1_PKT_FORM_NO] EQ 2
0087 C. ÇÇ[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. ÇÇ[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. ÇÇ[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE ;$ OPOG UPLOAD¼¬Á÷¿®NG¼í¾¹¹Ç;Ç°Ë²¼¼íTI-CMDÁ÷¿®¼í¾¹¹Ç¼°¼¼°¼è¼¼¹Ç¼Ç¼¼;£
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|      |    |                                                               |                           |  |  |
|------|----|---------------------------------------------------------------|---------------------------|--|--|
| 0096 | C. | SET EDUMP                                                     |                           |  |  |
| 0097 | C. |                                                               |                           |  |  |
| 0098 | C. | TI                                                            | 2025-04-26 11:23:00.0     |  |  |
| 0099 | +  | TI                                                            | 2025-04-26 11:23:00.0     |  |  |
| 0100 | DC | 01-B3 DHU_OP_STOP                                             |                           |  |  |
| 0101 | C. |                                                               |                           |  |  |
| 0102 | C. |                                                               |                           |  |  |
| 0103 | +  | TI                                                            | 2025-04-26 11:23:01.0     |  |  |
| 0104 | DC | 01-B4 DHU_OP_COPY                                             |                           |  |  |
| 0105 | C. |                                                               |                           |  |  |
| 0106 | C. |                                                               |                           |  |  |
| 0107 | +  | TI                                                            | 2025-04-26 11:23:01.0     |  |  |
| 0108 | DC | 01-B5 DHU_OPOG_COPY                                           |                           |  |  |
| 0109 | C. |                                                               |                           |  |  |
| 0110 | C. |                                                               |                           |  |  |
| 0111 | +  | TI                                                            | 2025-04-26 11:27:59.5     |  |  |
| 0112 | DC | 01-B2 DHU_OP_START                                            |                           |  |  |
| 0113 | C. |                                                               |                           |  |  |
| 0114 | C. |                                                               |                           |  |  |
| 0115 | C. |                                                               |                           |  |  |
| 0116 | C. |                                                               |                           |  |  |
| 0117 | C. |                                                               |                           |  |  |
| 0118 | C. |                                                               |                           |  |  |
| 0119 | C. |                                                               |                           |  |  |
| 0120 | C. |                                                               |                           |  |  |
| 0121 | C. |                                                               |                           |  |  |
| 0122 | C. |                                                               |                           |  |  |
| 0123 | C. |                                                               |                           |  |  |
| 0124 | C. |                                                               |                           |  |  |
| 0125 | C. | TI_TBL (0x03AB00-0x03AEFF;S 1024byte)                         |                           |  |  |
| 0126 | +  | DC                                                            | 01-23 DHU_DMA_DMP_PRM_SET |  |  |
| 0127 | BC | (03 ab 03 01 02)                                              |                           |  |  |
| 0128 | C. |                                                               |                           |  |  |
| 0129 | C. |                                                               |                           |  |  |
| 0130 | C. |                                                               |                           |  |  |
| 0131 | C. |                                                               |                           |  |  |
| 0132 | C. |                                                               |                           |  |  |
| 0133 | +  | DC                                                            | 01-22 DHU_MODE_CHNG       |  |  |
| 0134 | BC | (07 0b f8)                                                    |                           |  |  |
| 0135 | C. |                                                               |                           |  |  |
| 0136 | C. |                                                               |                           |  |  |
| 0137 | C. |                                                               |                           |  |  |
| 0138 | C. |                                                               |                           |  |  |
| 0139 | C. |                                                               |                           |  |  |
| 0140 | C. |                                                               |                           |  |  |
| 0141 | C. |                                                               |                           |  |  |
| 0142 | C. |                                                               |                           |  |  |
| 0143 | C. |                                                               |                           |  |  |
| 0144 | C. | RAM ID=TI_TBL                                                 |                           |  |  |
| 0145 | C. |                                                               |                           |  |  |
| 0146 | C. | DHU                                                           |                           |  |  |
| 0147 | +  | DC                                                            | 01-22 DHU_MODE_CHNG       |  |  |
| 0148 | BC | (02 0a f8)                                                    |                           |  |  |
| 0149 | C. |                                                               |                           |  |  |
| 0150 | C. |                                                               |                           |  |  |
| 0151 | C. |                                                               |                           |  |  |
| 0152 | C. |                                                               |                           |  |  |
| 0153 | C. |                                                               |                           |  |  |
| 0154 | C. |                                                               |                           |  |  |
| 0155 | C. | SOT TI command set                                            |                           |  |  |
| 0156 | C. |                                                               |                           |  |  |
| 0157 | C. | Execute, after the success of OP upload.                      |                           |  |  |
| 0158 | +  | TI                                                            | 2025-04-26 11:27:16.0     |  |  |
| 0159 | DC | 07-F0 MDP_SOT_MODE_STBY                                       |                           |  |  |
| 0160 | BC | (41)                                                          |                           |  |  |
| 0161 | C. |                                                               |                           |  |  |
| 0162 | C. |                                                               |                           |  |  |
| 0163 | C. |                                                               |                           |  |  |
| 0164 | C. |                                                               |                           |  |  |
| 0165 | C. | Stop EIS observation and temporarily disable EIS mode changes |                           |  |  |
| 0166 | C. |                                                               |                           |  |  |
| 0167 | C. |                                                               |                           |  |  |
| 0168 | C. |                                                               |                           |  |  |
| 0169 | C. | Execute, after the success of OP upload.                      |                           |  |  |
| 0170 | C. | Set EIS TI-commands                                           |                           |  |  |
| 0171 | +  | TI                                                            | 2025-04-26 11:27:30.0     |  |  |
| 0172 | DC | 07-FC EIS_MODE_MANU                                           |                           |  |  |
| 0173 | BC | (21 02)                                                       |                           |  |  |
| 0174 | +  | TI                                                            | 2025-04-26 11:27:40.0     |  |  |
| 0175 | DC | 07-FC EIS_MODE_CHG_DIS                                        |                           |  |  |
| 0176 | BC | (22)                                                          |                           |  |  |
| 0177 | C. |                                                               |                           |  |  |
| 0178 | C. |                                                               |                           |  |  |
| 0179 | C. |                                                               |                           |  |  |
| 0180 | C. |                                                               |                           |  |  |
| 0181 | C. |                                                               |                           |  |  |
| 0182 | C. |                                                               |                           |  |  |
| 0183 | C. | Execute, after the success of OP upload.                      |                           |  |  |
| 0184 | +  | TI                                                            | 2025-04-26 11:27:00.0     |  |  |
| 0185 | DC | 07-F0 MDP_XRT_MODE_STBY                                       |                           |  |  |
| 0186 | BC | (c3)                                                          |                           |  |  |
| 0187 | C. |                                                               |                           |  |  |
| 0188 | C. |                                                               |                           |  |  |
| 0189 | C. |                                                               |                           |  |  |
| 0190 | C. |                                                               |                           |  |  |
| 0191 | C. |                                                               |                           |  |  |
| 0192 | C. |                                                               |                           |  |  |
| 0193 | S. | DC-BC dcbc-402:DCBC                                           |                           |  |  |

```
0194      (MDP_known_event)
0195      C.
0196      C.
0197      . C. ***** 𐄂𐄂𐄂!•İ Daily±ĭİÑ𐄂Ē'Ø𐄂¹𐄂ĕDCBC•x²è *****
0198      . S. DC-BC dcbc-153:DCBC
0199      (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200      C.
0201      C.
0202      . C. ĭāLOS𐄂Á𐄂$𐄂Ā𐄂⁻¼Ā»Üĭä
0203      C.
0204      . C. ***** LOS *****
0205      C.
```

```
main-238 2025-04-26 11:16:08 169 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSŲÁŲ$ŲÃŲ~¼Ä»Ü;ä
0005 C.
0006 C. ŲÄŲß;¼Ų³ŲÐŲóŲÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Äí;ËñçðÀñ•µ°E»Í×ÅÇñÎŲÇŲÃŲ×Ųí;¼ŲÉ;ËËè²µ•íîÊ;ËÈ¼°ÇÔñ•ñç¼¹¹Çñİ;ÇÀ®,ùñ¹ñèñÞñÇÄ÷ç®ñ•ñÈñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÄ÷ç®µ;ON
0016 C. *****
0017 C. °EÄ,Í×ÈÝñäLOSñÞñÇñÎ»Þ'Òðò¹íî,ñ•;ÇÉÔÍ×ñÈXÄÓONñİ¹ÔñÈñíñÈñññ³ñÈ;£
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. ÇÇ[HK1_XPA_ON/OFF] EQ ON
0025 C. ÇÇ[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. ÇÇ[HK1_XMOD_ON/OFF] EQ ON
0027 C. ÇÇ[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XŲÐŲóŲÉŲíŲÄŲ~¾ÔÖñ¬°ÄÄèñ•ñççé;Ç°Ê²¼ñî°EÄ,¼è½Çñðò¼Ä¹Ôñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äî¼í°EÄ,
0033 C. *****
0034 C. ° RESTART;ÊPT1;Ëñ•ñçç¼¹¹Çñİ;Ç°Ê²¼ñî¼Ä¹Ôñ»ñ°;ÇDCBC-150ñØçÊñà;£
0035 C.
0036 . C. ;ãPT1°EÄ,³«»î;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. ÇÇ[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô,;¼Ü)
0043 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0044 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0045 C.
0046 . C. ;ãŲÇŲóŲEŲEŲÄÚÂØ;ÊÄ•Ä°²òÈò;Ë,ãñî°EÄ,°E³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. ÇÇ[HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô,;¼Ü)
0050 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0051 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0052 C.
0053 C.
0054 . C. PT1°EÄ,ñ¬¼«E°Ää»ßñ•ñçç,ä;Ç°Ê²¼ñðò¼Ä¹Ôñ¹ñè;£
0055 C. ŲÇŲóŲEŲEŲÄÚÂØñäÄ•Ä°²òÈòñ¬¼áñç¼¹¹Çñİ'°î»ñ¹ñèñÞñÇÄÔñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äî¼í°EÄ,
0059 C. *****
0060 C. ° RESTART;ÊPT2;Ëñ•ñçç¼¹¹Çñİ;Ç°Ê²¼ñî¼Ä¹Ôñ»ñ°;ÇDCBC-151ñØçÊñà;£
0061 C.
0062 . C. ;ãPT2°EÄ,³«»î;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. ÇÇ[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô,;¼Ü)
0069 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0070 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0071 C.
0072 . C. ;ãŲÇŲóŲEŲEŲÄÚÂØ;ÊÄ•Ä°²òÈò;Ë,ãñî°EÄ,°E³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. ÇÇ[HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô,;¼Ü)
0076 C. ÇÇ[HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ü)
0077 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ü)
0078 C.
0079 . C. *****
0080 C. DR°EÄ,Ää»ß;ÇXÄ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EÄ,Ää»ß;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. ÇÇ[HK1_REP_STA/STP] EQ STOP
0087 C. ÇÇ[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. ÇÇ[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÄ÷ç®µ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. ÇÇ[HK1_XMOD_ON/OFF] EQ OFF
0095 C. ÇÇ[HK1_XPA_ON/OFF] EQ OFF
```

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0096 C.
0097 C.
0098 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ()
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE STATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCS Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCS DUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0130 +. DC 07-FC EIS_MODE_CHG_ENA
0131 BC (20)
0132 . C. Verify EIS_MODE_CHG_FLG is ENA
0133 +. DC 07-FC EIS_MODE_MANU
0134 BC (21 02)
0135 . C. Verify EIS in MANUAL mode
0136 . C. Estimated OBSTBL upload time is 21s
0137 C. *****
0138 C. EIS START OBSTBL LOAD
0139 C. *****
0140 . S. RAM ram-820:EIS_OBSTBL
0141 ()
0142 +. DC 07-FC EIS_DUMP_OBSTBL
0143 BC (07 07 07 00 00 70 00)
0144 C.
0145 C. Execute, after the success of OBSTBL upload.
0146 C. Set EIS TI-commands
0147 +. TI 2025-04-26 11:27:50.0
0148 DC 07-FC EIS_MODE_CHG_ENA
0149 BC (20)
0150 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0151 C. *****
0152 C. EIS END OBSTBL LOAD
0153 C. *****
0154 C.
0155 . C. ***** MDP 'ûÃîî»ö¼ÝñÊÄñ¹ñëDCBC•x²è *****
0156 C. (%ã°îÿÔÿÃÿËÿÐÿËÿâÿçÿëñÊ¼ññ¼Ã»Ûñ¹ñë)
0157 . S. DC-BC dcbc-402:DCBC
0158 (MDP_known_event)
0159 C.
0160 C.
0161 . C. ***** ¥Ð¥¹•Ï Daily±¿íññÊ'Øñ¹ñëDCBC•x²è *****
0162 . S. DC-BC dcbc-153:DCBC
0163 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0164 C.
0165 C.
0166 . C. ;ãLOS¥Ã¥$¥Ã¥~¼Ã»Û;ä
0167 C.
0168 . C. ***** LOS *****
0169 C.

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main-239 2025-04-26 11:16:08 132 33 SOLAR-B MAIN //
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0094      BC 07 10 MD1_XR1_AKS_D15
0095      BC      (d5)
```

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0096 + DC 07-F0 MDP_XRT_AEC_RESET
0097 BC (d0)
0098 + DC 07-F0 MDP_XRT_FLD_RESET
0099 BC (da)
0100 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0101 BC (c4 0b)
0102 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0103 BC (c5 0e)
0104 . C. ----- Success Verify ? OK / NG ____
0105 C.
0106 C.
0107 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0108 C.
0109 +. DC 07-F0 MDP_XRT_MODE_OBSV
0110 BC (c2)
0111 +. TI 2025-04-26 11:27:02.0
0112 DC 07-F0 MDP_XRT_MODE_OBSV
0113 BC (c2)
0114 . C. ----- Success Verify ? OK / NG ____
0115 C.
0116 C. ***** XRT END *****
0117 C.
0118 . C. ***** MDP 'ûÃîñî»ö¼ÝñĚÂĐñ¹ñěDCBC•x²è *****
0119 C. (¼â°îŸÓŸĀŸĚŸĐŸĚŸĀŸĈŸĚñĚ¼¼ñ¼Ā»Ūñ¹ñě)
0120 . S. DC-BC dcbc-402:DCBC
0121 (MDP_known_event)
0122 C.
0123 C.
0124 . C. ***** ŸĐŸ¹•İ Daily±¿İññĚ'Øñ¹ñěDCBC•x²è *****
0125 . S. DC-BC dcbc-153:DCBC
0126 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0127 C.
0128 C.
0129 . C. ;ăLOSŸĀŸ$ŸĀŸ`¼Ā»Ū;ă
0130 C.
0131 . C. ***** LOS *****
0132 C.
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Apr 26, 25 11:16

XRT\_OGLIST\_0550.chk

Page 1/4

\*\*\* OP Sequence for XRT \*\*\*

|            |            |                                   |   |       |                |
|------------|------------|-----------------------------------|---|-------|----------------|
| 2025/04/26 | 11:37:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 11:37:56.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 11:37:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] |   |       |                |
|            |            | XRT_FOCUS_POSITION                | 4 | 07-F8 | 22 fe 97 00    |
| 2025/04/26 | 11:38:00.0 | AOCs_Ore-point_Start_1_OG [0x097] |   |       |                |
|            |            | AOCU_NM                           | 5 | 02-76 | 02 03 8d 01 db |
| 2025/04/26 | 11:38:18.0 | XRT_FLD_ENA_411_OG [0x19b]        |   |       |                |
|            |            | MDP_XRT_FLD_ENA                   | 1 | 07-F0 | d8             |
| 2025/04/26 | 11:38:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    |   |       |                |
|            |            | MDP_XRT_FLRCTRL_ENA               | 1 | 07-F0 | c8             |
| 2025/04/26 | 11:38:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      |   |       |                |
|            |            | MDP_XRT_AEC_RESET                 | 1 | 07-F0 | d0             |
| 2025/04/26 | 11:38:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        |   |       |                |
|            |            | MDP_XRT_ARS_DIS                   | 1 | 07-F0 | d5             |
| 2025/04/26 | 11:38:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/26 | 11:40:56.0 | XRT_QT_PROG_SET_442_OG [0x1ba]    |   |       |                |
|            |            | MDP_XRT_QT_PROG_SET               | 2 | 07-F0 | c4 12          |
| 2025/04/26 | 11:40:58.0 | XRT_FL_PROG_SET_401_OG [0x191]    |   |       |                |
|            |            | MDP_XRT_FL_PROG_SET               | 2 | 07-F0 | c5 0c          |
| 2025/04/26 | 11:41:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/26 | 11:41:01.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 11:41:03.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 11:41:06.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/26 | 11:41:08.5 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/26 | 11:44:16.5 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/26 | 11:46:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/26 | 11:47:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/26 | 11:56:00.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 11:56:02.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 11:56:04.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/26 | 11:56:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/26 | 11:59:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/26 | 12:19:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/26 | 12:20:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/26 | 13:34:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 13:34:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 13:34:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/26 | 13:34:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/26 | 13:37:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/26 | 13:57:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/26 | 13:58:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/26 | 15:12:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 15:12:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 15:12:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/26 | 15:12:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/26 | 15:15:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/26 | 15:35:30.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/26 | 15:36:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/26 | 16:50:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 16:50:32.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |
| 2025/04/26 | 16:50:34.0 | XRT_FLD_RESET_415_OG [0x19f]      |   |       |                |
|            |            | MDP_XRT_FLD_RESET                 | 1 | 07-F0 | da             |
| 2025/04/26 | 16:50:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STRT               | 1 | 07-F0 | e8             |
| 2025/04/26 | 16:53:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    |   |       |                |
|            |            | MDP_XRT_PREFLR_STOP               | 1 | 07-F0 | e9             |
| 2025/04/26 | 17:24:00.0 | XRT_Custom_430_OG [0x1ae]         |   |       |                |
| 2025/04/26 | 17:25:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      |   |       |                |
|            |            | MDP_XRT_CTRL_AUTO                 | 1 | 07-F0 | c0             |
| 2025/04/26 | 17:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]      |   |       |                |
|            |            | MDP_XRT_CTRL_MANU                 | 1 | 07-F0 | c1             |

Saturday April 26, 2025

1/4

Apr 26, 25 11:16

XRT\_OGLIST\_0550.chk

Page 2/4

|            |            |                                   |                     |   |       |                |
|------------|------------|-----------------------------------|---------------------|---|-------|----------------|
| 2025/04/26 | 17:59:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 17:59:58.0 | XRT_FOCUS_POSITION_406_OG [0x196] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 ff aa 00    |
| 2025/04/26 | 18:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098] | AOCU_NM             | 5 | 02-76 | 00 00 00 00 00 |
| 2025/04/26 | 18:00:18.0 | XRT_FLD_DIS_409_OG [0x199]        | MDP_XRT_FLD_DIS     | 1 | 07-F0 | d9             |
| 2025/04/26 | 18:00:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]    | MDP_XRT_FLRCTRL_DIS | 1 | 07-F0 | c9             |
| 2025/04/26 | 18:00:22.0 | XRT_ARS_DIS_435_OG [0x1b3]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2025/04/26 | 18:02:58.0 | XRT_QT_PROG_SET_436_OG [0x1b4]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 03          |
| 2025/04/26 | 18:03:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/04/26 | 18:09:54.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 18:09:56.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 18:09:58.0 | XRT_FOCUS_POSITION_410_OG [0x19a] | XRT_FOCUS_POSITION  | 4 | 07-F8 | 22 fe 97 00    |
| 2025/04/26 | 18:10:00.0 | AOCS_ORe-point_Start_1_OG [0x097] | AOCU_NM             | 5 | 02-76 | 02 03 8d 01 db |
| 2025/04/26 | 18:10:18.0 | XRT_FLD_ENA_411_OG [0x19b]        | MDP_XRT_FLD_ENA     | 1 | 07-F0 | d8             |
| 2025/04/26 | 18:10:20.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]    | MDP_XRT_FLRCTRL_ENA | 1 | 07-F0 | c8             |
| 2025/04/26 | 18:10:22.0 | XRT_AEC_RESET_448_OG [0x1c0]      | MDP_XRT_AEC_RESET   | 1 | 07-F0 | d0             |
| 2025/04/26 | 18:10:24.0 | XRT_ARS_DIS_423_OG [0x1a7]        | MDP_XRT_ARS_DIS     | 1 | 07-F0 | d5             |
| 2025/04/26 | 18:10:26.0 | XRT_FLD_RESET_434_OG [0x1b2]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/04/26 | 18:12:56.0 | XRT_QT_PROG_SET_437_OG [0x1b5]    | MDP_XRT_QT_PROG_SET | 2 | 07-F0 | c4 08          |
| 2025/04/26 | 18:12:58.0 | XRT_FL_PROG_SET_401_OG [0x191]    | MDP_XRT_FL_PROG_SET | 2 | 07-F0 | c5 0c          |
| 2025/04/26 | 18:13:00.0 | XRT_CTRL_AUTO_408_OG [0x198]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/04/26 | 18:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 18:29:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 18:29:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/04/26 | 18:29:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/04/26 | 18:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/04/26 | 19:00:30.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2025/04/26 | 19:01:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/04/26 | 20:07:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 20:07:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 20:07:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/04/26 | 20:07:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/04/26 | 20:10:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/04/26 | 20:37:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2025/04/26 | 20:38:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/04/26 | 21:45:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 21:45:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 21:45:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/04/26 | 21:45:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/04/26 | 21:48:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/04/26 | 22:14:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2025/04/26 | 22:15:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/04/26 | 23:23:00.0 | XRT_CTRL_MANU_400_OG [0x190]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 23:23:02.0 | XRT_CTRL_MANU_402_OG [0x192]      | MDP_XRT_CTRL_MANU   | 1 | 07-F0 | c1             |
| 2025/04/26 | 23:23:04.0 | XRT_FLD_RESET_415_OG [0x19f]      | MDP_XRT_FLD_RESET   | 1 | 07-F0 | da             |
| 2025/04/26 | 23:23:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]    | MDP_XRT_PREFLR_STRT | 1 | 07-F0 | e8             |
| 2025/04/26 | 23:26:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]    | MDP_XRT_PREFLR_STOP | 1 | 07-F0 | e9             |
| 2025/04/26 | 23:49:00.0 | XRT_Custom_430_OG [0x1ae]         |                     |   |       |                |
| 2025/04/26 | 23:50:00.0 | XRT_CTRL_AUTO_424_OG [0x1a8]      | MDP_XRT_CTRL_AUTO   | 1 | 07-F0 | c0             |
| 2025/04/27 | 01:01:30.0 | XRT_CTRL_MANU_400_OG [0x190]      |                     |   |       |                |

XRT OGLIST 0550.chk

|            |            |                                         |  |                      |   |       |                |  |
|------------|------------|-----------------------------------------|--|----------------------|---|-------|----------------|--|
|            |            |                                         |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 01:01:32.0 | XRT_CTRL_MANU_402_OG [0x192]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 01:01:34.0 | XRT_FLD_RESET_415_OG [0x19f]            |  | MDP_XRT_FLD_RESET    | 1 | 07-F0 | da             |  |
| 2025/04/27 | 01:01:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]          |  | MDP_XRT_PREFLR_STRT  | 1 | 07-F0 | e8             |  |
| 2025/04/27 | 01:04:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |  | MDP_XRT_PREFLR_STOP  | 1 | 07-F0 | e9             |  |
| 2025/04/27 | 01:24:30.0 | XRT_Custom_430_OG [0x1ae]               |  |                      |   |       |                |  |
| 2025/04/27 | 01:25:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |  | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0             |  |
| 2025/04/27 | 02:29:00.0 | XRT_CTRL_MANU_400_OG [0x190]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 02:29:02.0 | XRT_CTRL_MANU_402_OG [0x192]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 02:29:04.0 | XRT_FLD_RESET_415_OG [0x19f]            |  | MDP_XRT_FLD_RESET    | 1 | 07-F0 | da             |  |
| 2025/04/27 | 02:29:06.0 | XRT_PREFLR_STRT_417_OG [0x1a1]          |  | MDP_XRT_PREFLR_STRT  | 1 | 07-F0 | e8             |  |
| 2025/04/27 | 02:32:14.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |  | MDP_XRT_PREFLR_STOP  | 1 | 07-F0 | e9             |  |
| 2025/04/27 | 03:02:30.0 | XRT_Custom_430_OG [0x1ae]               |  |                      |   |       |                |  |
| 2025/04/27 | 03:03:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |  | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0             |  |
| 2025/04/27 | 03:59:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 03:59:56.0 | XRT_FOCUS_POSITION_406_OG [0x196]       |  | XRT_FOCUS_POSITION   | 4 | 07-F8 | 22 ff aa 00    |  |
| 2025/04/27 | 04:00:00.0 | AOCS_ORe-point_Start_2_OG [0x098]       |  | AOCU_NM              | 5 | 02-76 | 00 00 00 00 00 |  |
| 2025/04/27 | 04:00:16.0 | XRT_FLD_ENA_411_OG [0x19b]              |  | MDP_XRT_FLD_ENA      | 1 | 07-F0 | d8             |  |
| 2025/04/27 | 04:00:18.0 | XRT_FLRCTRL_ENA_412_OG [0x19c]          |  | MDP_XRT_FLRCTRL_ENA  | 1 | 07-F0 | c8             |  |
| 2025/04/27 | 04:00:20.0 | XRT_AEC_RESET_448_OG [0x1c0]            |  | MDP_XRT_AEC_RESET    | 1 | 07-F0 | d0             |  |
| 2025/04/27 | 04:00:22.0 | XRT_ARS_DIS_423_OG [0x1a7]              |  | MDP_XRT_ARS_DIS      | 1 | 07-F0 | d5             |  |
| 2025/04/27 | 04:00:24.0 | XRT_FLD_RESET_446_OG [0x1be]            |  | MDP_XRT_FLD_RESET    | 1 | 07-F0 | da             |  |
| 2025/04/27 | 04:02:56.0 | XRT_QT_PROG_SET_420_OG [0x1a4]          |  | MDP_XRT_QT_PROG_SET  | 2 | 07-F0 | c4 10          |  |
| 2025/04/27 | 04:02:58.0 | XRT_FL_PROG_SET_401_OG [0x191]          |  | MDP_XRT_FL_PROG_SET  | 2 | 07-F0 | c5 0c          |  |
| 2025/04/27 | 04:40:30.0 | XRT_Custom_430_OG [0x1ae]               |  |                      |   |       |                |  |
| 2025/04/27 | 04:41:30.0 | XRT_CTRL_AUTO_424_OG [0x1a8]            |  | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0             |  |
| 2025/04/27 | 05:32:30.0 | XRT_CTRL_MANU_400_OG [0x190]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 05:32:32.0 | XRT_CTRL_MANU_402_OG [0x192]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 05:32:34.0 | XRT_FLD_RESET_415_OG [0x19f]            |  | MDP_XRT_FLD_RESET    | 1 | 07-F0 | da             |  |
| 2025/04/27 | 05:32:36.0 | XRT_PREFLR_STRT_417_OG [0x1a1]          |  | MDP_XRT_PREFLR_STRT  | 1 | 07-F0 | e8             |  |
| 2025/04/27 | 05:35:44.0 | XRT_PREFLR_STOP_419_OG [0x1a3]          |  | MDP_XRT_PREFLR_STOP  | 1 | 07-F0 | e9             |  |
| 2025/04/27 | 06:18:54.0 | XRT_CTRL_MANU_402_OG [0x192]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 06:18:56.0 | XRT_CTRL_MANU_402_OG [0x192]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 06:18:58.0 | XRT_FOCUS_POSITION_406_OG [0x196]       |  | XRT_FOCUS_POSITION   | 4 | 07-F8 | 22 ff aa 00    |  |
| 2025/04/27 | 06:19:00.0 | AOCS_ORe-point_Start_2_OG [0x098]       |  | AOCU_NM              | 5 | 02-76 | 00 00 00 00 00 |  |
| 2025/04/27 | 06:19:18.0 | XRT_FLD_DIS_409_OG [0x199]              |  | MDP_XRT_FLD_DIS      | 1 | 07-F0 | d9             |  |
| 2025/04/27 | 06:19:20.0 | XRT_FLRCTRL_DIS_413_OG [0x19d]          |  | MDP_XRT_FLRCTRL_DIS  | 1 | 07-F0 | c9             |  |
| 2025/04/27 | 06:19:22.0 | XRT_ARS_DIS_435_OG [0x1b3]              |  | MDP_XRT_ARS_DIS      | 1 | 07-F0 | d5             |  |
| 2025/04/27 | 06:21:58.0 | XRT_QT_PROG_SET_436_OG [0x1b4]          |  | MDP_XRT_QT_PROG_SET  | 2 | 07-F0 | c4 03          |  |
| 2025/04/27 | 06:22:00.0 | XRT_CTRL_AUTO_408_OG [0x198]            |  | MDP_XRT_CTRL_AUTO    | 1 | 07-F0 | c0             |  |
| 2025/04/27 | 06:29:00.0 | AOCS_ORe-point_Start_1_OG [0x097]       |  | AOCU_NM              | 5 | 02-76 | 02 03 8d 01 db |  |
| 2025/04/27 | 06:30:00.0 | XRT_CTRL_MANU_402_OG [0x192]            |  | MDP_XRT_CTRL_MANU    | 1 | 07-F0 | c1             |  |
| 2025/04/27 | 06:32:00.0 | XRT_TCIB_XRT_S_HTR_A_ENA_428_OG [0x1ac] |  | TCIB_XRT_S_HTR_A_ENA | 0 | 04-BC |                |  |
| 2025/04/28 | 00:00:00.0 | AOCS_ORe-point_Start_3_OG [0x099]       |  | AOCU_NM              | 5 | 02-76 | 03 03 8d 01 db |  |
| 2025/04/28 | 05:39:30.0 | AOCS_ORe-point_Start_2_OG [0x098]       |  | AOCU_NM              | 5 | 02-76 | 00 00 00 00 00 |  |
| 2025/04/28 | 05:49:30.0 | AOCS_ORe-point_Start_1_OG [0x097]       |  | AOCU_NM              | 5 | 02-76 | 02 03 8d 01 db |  |
| 2025/04/28 | 13:00:00.0 | AOCS_ORe-point_Start_4_OG [0x09a]       |  | AOCU_NM              | 5 | 02-76 | 00 f4 01 b0 32 |  |
| 2025/04/29 | 05:56:00.0 | AOCS_ORe-point_Start_2_OG [0x098]       |  | AOCU_NM              | 5 | 02-76 | 00 00 00 00 00 |  |
| 2025/04/29 | 06:06:00.0 | AOCS_ORe-point_Start_4_OG [0x09a]       |  |                      |   |       |                |  |

Apr 26, 25 11:16

XRT\_OGLIST\_0550.chk

Page 4/4

|            |            |                           |         |   |       |    |    |    |    |    |
|------------|------------|---------------------------|---------|---|-------|----|----|----|----|----|
| 2025/04/29 | 12:42:00.5 | AACS_ORe-point_Start_2_OG | AOCU_NM | 5 | 02-76 | 00 | f4 | 01 | b0 | 32 |
|            |            | [0x098]                   | AOCU_NM | 5 | 02-76 | 00 | 00 | 00 | 00 | 00 |