

# 「あすか」 OPERATION REPORT Ver.1.5

94 年 3 月 27/28 日 Y+ 400/401 KSC 当番: 吉田 K 、 瀧澤

NGC6240 → NEP#5

|                              | PASS 1                                                                   | PASS 2                                                          | PASS 3                                                          | PASS 4                                                          | PASS 5                                                          |
|------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Pass No.                     | 940327-1238                                                              | 940327-1341                                                     | 940327-1444                                                     | 940327-1548                                                     | 940328-0103                                                     |
| Operation                    | X REP<br>OP/OG WT/CK<br><br>ERR CODE RST<br>((SH)MOMCHG)<br><br>OP START | X REP<br>SBR A RNG<br>S-CTLG WT/CK<br><br>OBS-MODE<br>RNG OFF   | X REP<br>BDR STOP<br>X REP<br>BDR STOP                          | X REP<br>SBR A RNG<br>RNG OFF                                   | X REP                                                           |
| Target                       | NGC6240                                                                  | NGC6240                                                         | NGC6240                                                         | NGC6240                                                         | NGC6240                                                         |
| AOS(UT)                      | 18:29:44                                                                 | 20:11:40                                                        | 21:52:26                                                        | 23:34:23                                                        | 01:15:53                                                        |
| LOS(UT)                      | 18:41:40                                                                 | 20:23:42                                                        | 22:05:18                                                        | 23:46:55                                                        | 01:27:46                                                        |
| Max-El<br>Time               | 18.373<br>18:35:40                                                       | 55.925<br>20:16:52                                              | Zenith<br>—                                                     | 63.584<br>23:39:58                                              | 23.372<br>01:21:19                                              |
| Rep-band(stat.)              | X ( Completed )                                                          | X ( Completed )                                                 | X ( Completed )                                                 | X ( Completed )                                                 | X ( Completed )                                                 |
| Rep-start                    | 18:31:22                                                                 | 20:12:16                                                        | 21:53:35/21:59:04                                               | 23:35:07                                                        | 01:16:58                                                        |
| DP-mode                      | OBS                                                                      | OBS                                                             | OBS                                                             | OBS                                                             | OBS                                                             |
| ACS-mode                     | Normal-Pointing                                                          | Normal-Pointing                                                 | Normal-Pointing                                                 | Normal-Pointing                                                 | Normal-Pointing                                                 |
| ACS-spn/ $\theta_s$ $\phi_s$ | 23.43°, 189.59°                                                          | 23.49°, 189.63°                                                 | 23.56°, 189.66°                                                 | 23.64°, 189.75°                                                 | 23.69°, 189.73°                                                 |
| Attitude                     | $\begin{bmatrix} 253.0497 \\ 87.6615 \\ 359.8132 \end{bmatrix}$          | $\begin{bmatrix} 253.0501 \\ 87.6613 \\ 359.8112 \end{bmatrix}$ | $\begin{bmatrix} 253.0503 \\ 87.6617 \\ 359.8137 \end{bmatrix}$ | $\begin{bmatrix} 253.0499 \\ 87.6616 \\ 359.8144 \end{bmatrix}$ | $\begin{bmatrix} 253.0497 \\ 87.6619 \\ 359.8125 \end{bmatrix}$ |
| OP-start(CE)                 | 18:38:29 ( 00h )                                                         | Cont ( 09h )                                                    | Cont ( 11h )                                                    | Cont ( 19h )                                                    | Cont ( 21h )                                                    |
| SIS-mode                     | Faint/Faint<br>0101/2323                                                 | Faint/Faint<br>0101/2323                                        | Faint/Faint<br>0101/2323                                        | Faint/Faint<br>0101/2323                                        | Faint/Faint<br>0101/2323                                        |
| S0/1-TECT                    | -34.78/-34.67                                                            | -35.27/-35.15                                                   | -35.46/-35.35                                                   | -35.80/-35.55                                                   | -35.85/-35.69                                                   |
| S0/1-CCDT                    | -60.26/-59.80                                                            | -60.31/-59.84                                                   | -60.45/-59.94                                                   | -60.49/-59.98                                                   | -60.50/-60.08                                                   |
| GIS-mode                     | PH(10-8-8-5-0)                                                           | PH(10-8-8-5-0)                                                  | PH(10-8-8-5-0)                                                  | PH(10-8-8-5-0)                                                  | PH(10-8-8-5-0)                                                  |
| GIS LD Hit                   | 20cps/24cps                                                              | 25cps/23cps                                                     | 26cps/30cps                                                     | 31cps/30cps                                                     | 25cps/29cps                                                     |

|                  |   |   |   |   |     |      |       |      |      |      |      |      |        |        |             |
|------------------|---|---|---|---|-----|------|-------|------|------|------|------|------|--------|--------|-------------|
| P                | X | Y | R | S | Pos | MErr | HV_HL | Gain | RT-L | RT-U | Temp | RBMT | CalPk  | RT Pk  | CalCnt/time |
| 10               | 8 | 8 | 5 | 0 | FLF | 1    | 3/4   | 48   | 159  | 218  | 19.6 | 20.2 | 386.57 | 184.34 | 1433        |
| Pass: 9403271238 |   |   |   |   |     |      | 3/4   | 40   | 159  | 218  | 14.7 |      | 440.26 | 180.01 | 1387        |

GIS Mode Changes: NONE

## Battery Condition (min/max)

|             |             |            |            |           |           |
|-------------|-------------|------------|------------|-----------|-----------|
| BAT_V-A     | BAT_V-B     | BAT_I-A    | BAT_I-B    | BAT_T-A   | BAT_T-B   |
| 19.90/23.40 | 19.90/23.50 | -4.38/4.75 | -4.55/4.78 | 4.82/8.74 | 4.82/8.46 |

## Manoeuvre Operation

| Start Time  | Target Name | # | $(\alpha, \delta)$     | $(\phi, \theta, \psi)$          |
|-------------|-------------|---|------------------------|---------------------------------|
| 03/28 08:00 | NEP#5       | 3 | ( 270.0000 , 66.5600 ) | ( 269.4204 , 23.6052 , 8.0309 ) |

**Comment:** 本日の運用:

We obtained 0.1 counts/s/SIS and 0.06 counts/s/GIS from NGC6240 (evolved interacting system, sturburst + possible AGN). The spectrum shows a power-law of photon index 2.0 with a 6.5 keV iron line.

SIS の CCD 温度が高めになっていて、S1 の方は -59 度台まで上がりました。運用も段々ときつい時間帯になってきました。

きのうは、都井岬まで行ってひなたぼっこです。(吉田 K)

早起 (瀧澤)