

勢がずれているのではないか？と思った。しかし予定されていた位置にもソースがいるようなので多分大丈夫なんだろう。（ちょっと自信のない古澤）

# 「あすか」 OPERATION REPORT Ver.1.5

94 年 4 月 06 日    Y+ 410    KSC 当番: 竹島、古澤

NGC6553 → W28 No.2 → GPS1-1

|                            | PASS 1                                                                        | PASS 2                                                         | PASS 3                                                         | PASS 4                                                         | PASS 5                                                                 |           |      |        |        |             |
|----------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------|-----------|------|--------|--------|-------------|
| Pass No.                   | 940406-0927                                                                   | 940406-1030                                                    | 940406-1133                                                    | 940406-1237                                                    | 940406-1340                                                            |           |      |        |        |             |
| Operation                  | X REP<br>OP/OG WT/CK<br><br>CPU 2/3 STOP<br><br>CPU 2/3 START<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                                                          | X REP<br>SBR-A RNG<br>CPU 2/3 STOP<br><br>CPU 2/3 START<br><br>RNG OFF |           |      |        |        |             |
| Target                     | NGC6553                                                                       | NGC6553                                                        | NGC6553                                                        | NGC6553                                                        | NGC6553                                                                |           |      |        |        |             |
| AOS(UT)                    | 13:05:08                                                                      | 14:45:58                                                       | 16:27:28                                                       | 18:09:13                                                       | 19:50:55                                                               |           |      |        |        |             |
| LOS(UT)                    | 13:15:51                                                                      | 14:58:21                                                       | 16:39:52                                                       | 18:21:34                                                       | 20:02:26                                                               |           |      |        |        |             |
| Max-El                     | 12.227                                                                        | 40.119                                                         | Zenith                                                         | 79.191                                                         | 33.415                                                                 |           |      |        |        |             |
| Time                       | 13:10:40                                                                      | 14:51:49                                                       | —                                                              | 18:14:53                                                       | 19:56:15                                                               |           |      |        |        |             |
| Rep-band(stat.)            | X ( Completed )                                                               | X ( Completed )                                                | X ( Interrupted )                                              | X ( Completed )                                                | X ( Completed )                                                        |           |      |        |        |             |
| Rep-start                  | 13:05:56                                                                      | 14:46:56                                                       | 16:28:29/18:34:01                                              | 18:10:14                                                       | 19:51:54                                                               |           |      |        |        |             |
| DP-mode                    | OBS                                                                           | OBS                                                            | OBS                                                            | OBS                                                            | OBS                                                                    |           |      |        |        |             |
| ACS-mode                   | Normal-Pointing                                                               | Normal-Pointing                                                | Normal-Pointing                                                | Normal-Pointing                                                | Normal-Pointing                                                        |           |      |        |        |             |
| ACS-spn/ $\theta_s \phi_s$ | $^{\circ}, ^{\circ}$                                                          | $^{\circ}, ^{\circ}$                                           | $^{\circ}, ^{\circ}$                                           | 15.63 $^{\circ}$ , 161.22 $^{\circ}$                           | 15.73 $^{\circ}$ , 161.34 $^{\circ}$                                   |           |      |        |        |             |
| Attitude                   | $\begin{bmatrix} 272.1129 \\ 116.0595 \\ 5.2006 \end{bmatrix}$                | $\begin{bmatrix} 272.1128 \\ 116.0589 \\ 5.2005 \end{bmatrix}$ | $\begin{bmatrix} 272.1113 \\ 116.0590 \\ 5.2008 \end{bmatrix}$ | $\begin{bmatrix} 272.1121 \\ 116.0588 \\ 5.2002 \end{bmatrix}$ | $\begin{bmatrix} 272.1132 \\ 116.0589 \\ 5.2007 \end{bmatrix}$         |           |      |        |        |             |
| OP-start(CE)               | 13:12:13 ( 00h )                                                              | Cont ( 0Ah )                                                   | Cont ( 14h )                                                   | Cont ( 1Eh )                                                   | Cont ( 28h )                                                           |           |      |        |        |             |
| SIS-mode                   | Faint/Faint<br>1212/3030                                                      | Faint/Faint<br>1212/3030                                       | Faint/Faint<br>1212/3030                                       | Faint/Faint<br>1212/3030                                       | Faint/Faint<br>1212/3030                                               |           |      |        |        |             |
| S0/1-TECT                  | -33.47/-33.74                                                                 | -34.20/-34.47                                                  | -34.59/-34.86                                                  | -35.27/-35.49                                                  | -35.85/-36.03                                                          |           |      |        |        |             |
| S0/1-CCDT                  | -60.17/-59.89                                                                 | -60.35/-60.17                                                  | -60.59/-60.36                                                  | -60.73/-60.50                                                  | -60.92/-60.69                                                          |           |      |        |        |             |
| 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                 | 25cps/23cps                                                                   | 25cps/28cps                                                    | 26cps/28cps                                                    | 30cps/29cps                                                    | 23cps/23cps                                                            |           |      |        |        |             |
| 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                                                                | 19.1 19.6 |      | 388.36 | 184.29 | 1227        |
| Pass: 9404060927           |                                                                               |                                                                | 3/4                                                            | 40                                                             | 159 218                                                                | 13.6      |      | 414.82 | 180.06 | 1184        |

GIS Mode Changes: 10-8-8-5-0-0 → 10-8-8-0-0-5(W28 No.1) → 10-8-8-5-0-0(GPS1-1)

## Battery Condition (min/max)

|             |             |            |            |           |           |
|-------------|-------------|------------|------------|-----------|-----------|
| BAT_V-A     | BAT_V-B     | BAT_I-A    | BAT_I-B    | BAT_T-A   | BAT_T-B   |
| 20.00/23.50 | 20.10/23.50 | -4.51/4.75 | -4.64/4.78 | 4.82/8.74 | 4.82/8.17 |

## Manoeuvre Operation

| Start Time  | Target Name | # | $(\alpha, \delta)$      | $(\phi, \theta, \psi)$            |
|-------------|-------------|---|-------------------------|-----------------------------------|
| 04/06 22:25 | W28 No.2    | 1 | ( 270.3125 , -23.2528 ) | ( 270.0785 , 113.4389 , 13.0902 ) |
| 04/07 12:45 | GPS1-1      | 2 | ( 277.8729 , -9.6281 )  | ( 277.6143 , 99.7537 , 358.4419 ) |

**Comment:** 本日の運用: NGC6553 is very faint. The GIS count rate is  $\sim 4.3 \times 10^{-3}$  c/s. There is another (a little bit brighter) source  $\sim 10$  arcmin away from NGC6553. The count rate of this source is  $\sim 1.1 \times 10^{-2}$  c/s. 天頂通過のときリプロスタート時刻を MS 担当の人が 20 秒勘違いして、BDR の再生が complete にならなかった。これにより、データが 2 分位失われたが、4 パス目の再生で回収できた。良かった。良かった。(運用後久々に沢山寝て上機嫌の竹しま)

NGC6553 は非常に暗い。その上、SIS の視野のはしに NGC6553 より少し明るいソースがあったので、最初は姿