

の誤りです。申し訳ありません。

後任の××です。羽田空港で、ものめずらしげに本物のヒコーキを眺めていた私は迷子になり、結果として鹿児島行き便の出発を2分遅らせてしまいました。スチュワーデスさんに怒られるのも貴重な体験です。しかし、予定のバスには、ちゃんと乗ったはずですよ。（上田）

2-3日前からプリンターの様子がおかしい。頼みもしないのに、いちいち罫線を引いてくれる。ところが罫線を引くのは夜だけで、昼間QL解析をしている時は、きれいな出力を出す。QL解析があちこちに送られるのを知っていて、そういう時だけ見栄えを良くしているのだろうか。（堂谷）

長いようで短かった1週間が終った。相変わらずQL解析のペースは上がらない。堂谷さんが下位ビットの仕事をだいぶ減らしてくれたはずなのに……。ともあれ休養日なのでゆっくり休むことにしよう。（山崎）

# 「あすか」 OPERATION REPORT Ver.1.5

93 年 9 月 24 日 Y+ 216 KSC 当番: 堂谷、上田、山崎

## Observation

|                                                                 |                                                              |   |                                                              |   |                                                              |      |                                                              |      |                                                              |      |      |      |        |       |             |
|-----------------------------------------------------------------|--------------------------------------------------------------|---|--------------------------------------------------------------|---|--------------------------------------------------------------|------|--------------------------------------------------------------|------|--------------------------------------------------------------|------|------|------|--------|-------|-------------|
|                                                                 | PASS 1                                                       |   | PASS 2                                                       |   | PASS 3                                                       |      | PASS 4                                                       |      | PASS 5                                                       |      |      |      |        |       |             |
| Pass No.                                                        | 930924-0928                                                  |   | 930924-1031                                                  |   | 930924-1134                                                  |      | 930924-1238                                                  |      | 930924-1341                                                  |      |      |      |        |       |             |
| Operation                                                       | X-REP<br>SBR-A_RNG<br>OP/OG-WRT<br>OP-START                  |   | X-REP<br>SCT-WRT/CHK<br><br>OBS-MODE                         |   | X-REP<br>BDR-STOP<br>X-REP<br>HAM-ERR-RST<br><br>BDR-STOP    |      | X-REP<br>SBR-A_RNG<br>HAM-ERR-RST                            |      | X-REP                                                        |      |      |      |        |       |             |
| Target                                                          | SNR0540                                                      |   | SNR0540                                                      |   | SNR0540                                                      |      | SNR0540                                                      |      | SNR0540                                                      |      |      |      |        |       |             |
| AOS(UT)                                                         | 13:33:42                                                     |   | 15:15:15                                                     |   | 16:57:00                                                     |      | 18:38:37                                                     |      | 20:20:46                                                     |      |      |      |        |       |             |
| LOS(UT)                                                         | 13:46:08                                                     |   | 15:27:42                                                     |   | 17:09:15                                                     |      | 18:50:51                                                     |      | 20:30:42                                                     |      |      |      |        |       |             |
| Max-El<br>Time                                                  | 36.036<br>13:39:25                                           |   | 81.368<br>15:20:54                                           |   | Zenith<br>—                                                  |      | 38.753<br>18:44:09                                           |      | 11.728<br>20:25:24                                           |      |      |      |        |       |             |
| Rep-band(stat.)                                                 | X ( Completed )                                              |   | X ( Completed )                                              |   | X ( Completed )                                              |      | X ( Completed )                                              |      | X ( Completed )                                              |      |      |      |        |       |             |
| Rep-start                                                       | 13:36:18                                                     |   | 15:16:28                                                     |   | 16:57:48/17:03:04                                            |      | 18:39:30                                                     |      | 20:21:30                                                     |      |      |      |        |       |             |
| DP-mode                                                         | OBS                                                          |   | OBS/ACS/OBS                                                  |   | OBS                                                          |      | OBS                                                          |      | OBS                                                          |      |      |      |        |       |             |
| ACS-mode                                                        | Normal-Pointing                                              |   | Normal-Pointing                                              |   | Normal-Pointing                                              |      | Normal-Pointing                                              |      | Normal-Pointing                                              |      |      |      |        |       |             |
| ACS-spn/ $\theta_s$                                             | night                                                        |   | night                                                        |   | night                                                        |      | 15.16°                                                       |      | 15.09°                                                       |      |      |      |        |       |             |
| Attitude                                                        | $\begin{bmatrix} 84.285 \\ 159.366 \\ 337.656 \end{bmatrix}$ |   | $\begin{bmatrix} 84.286 \\ 159.366 \\ 337.655 \end{bmatrix}$ |   | $\begin{bmatrix} 84.285 \\ 159.366 \\ 337.657 \end{bmatrix}$ |      | $\begin{bmatrix} 84.285 \\ 159.366 \\ 337.655 \end{bmatrix}$ |      | $\begin{bmatrix} 84.285 \\ 159.366 \\ 337.655 \end{bmatrix}$ |      |      |      |        |       |             |
| OP-start(CE)                                                    | 13:43:02 ( 00h )                                             |   | Cont ( 08h )                                                 |   | Cont ( 10h )                                                 |      | Cont ( 18h )                                                 |      | Cont ( 20h )                                                 |      |      |      |        |       |             |
| SIS-mode                                                        | Faint/Faint<br>4CCD                                          |   | Faint/Faint<br>4CCD                                          |   | Faint/Faint<br>4CCD                                          |      | Faint/Faint<br>4CCD                                          |      | Faint/Faint<br>4CCD                                          |      |      |      |        |       |             |
| S0/1-TECT                                                       | -37.93/-37.97                                                |   | -37.89/-37.97                                                |   | -38.18/-38.22                                                |      | -38.66/-38.65                                                |      | -39.39/-39.38                                                |      |      |      |        |       |             |
| S0/1-CCDT                                                       | -61.71/-61.81                                                |   | -61.67/-61.77                                                |   | -61.67/-61.77                                                |      | -61.67/-61.77                                                |      | -61.67/-61.77                                                |      |      |      |        |       |             |
| GIS-mode                                                        | PH                                                           |   | PH                                                           |   | PH                                                           |      | PH                                                           |      | PH                                                           |      |      |      |        |       |             |
| GIS LD Hit                                                      | 23cps/24cps                                                  |   | 27cps/24cps                                                  |   | 30cps/31cps                                                  |      | 28cps/31cps                                                  |      | 28cps/26cps                                                  |      |      |      |        |       |             |
| P                                                               | X                                                            | Y | R                                                            | S | Pos                                                          | MErr | HV_HL                                                        | Gain | RT-L                                                         | RT-U | Temp | RBMT | CalPk  | RT Pk | CalCnt/time |
| 8                                                               | 6                                                            | 6 | 0                                                            | 0 | FLF                                                          | —    | 3/4                                                          | 48   | 159                                                          | 218  | 14.2 | 14.1 | 406.38 | -     | -           |
| Pass: S9309230928                                               |                                                              |   | 3/4                                                          |   | 40                                                           | 159  | 218                                                          | 8.7  | 422.02                                                       |      | -    |      | -      |       |             |
| GIS Mode Changes: 8-6-6-0-0-10(SNR0540) → 10-8-8-5-0-0(RXO4591) |                                                              |   |                                                              |   |                                                              |      |                                                              |      |                                                              |      |      |      |        |       |             |

### Battery Condition (min/max)

|             |             |            |            |           |           |
|-------------|-------------|------------|------------|-----------|-----------|
| BAT_V-A     | BAT_V-B     | BAT_I-A    | BAT_I-B    | BAT_T-A   | BAT_T-B   |
| 20.10/23.40 | 20.10/23.50 | -4.34/4.75 | -4.60/4.76 | 4.82/8.74 | 4.82/8.46 |

### Manoeuvre Operation

| Start Time  | Target Name | # | $(\alpha, \delta)$  | $(\phi, \theta, \psi)$       |
|-------------|-------------|---|---------------------|------------------------------|
| 09/24 22:36 | RX04591#1   | 1 | ( 74.78 , 52.50 )   | ( 74.41 , 37.65 , 3.48 )     |
| 09/25 13:00 | RX04591#2   | 2 | ( 74.78 , 51.78 )   | ( 74.42 , 38.37 , 3.63 )     |
| 09/26 00:11 | 1E1740      | 3 | ( 265.98 , -29.75 ) | ( -93.83 , 119.69 , 179.76 ) |

**Comment:** 本日の運用:

We observed SNR0540 with 10 timing bits mode for GIS. SNR0540 is a SNR in LMC, in which the 50 msec pulsar is located. We can see two other sources in the GIS FOV. The count rate of SNR was 0.7 c/s/GIS and 0.2 c/s/SIS. The energy spectrum can be fitted with thermal Bremsstrahlung of  $kT = 2.7$  keV, or power law with index = 2.5.

お詫びと訂正: 昨日の運用記録の "GIS Mode Changes: no change" は "10-8-8-5-0-0(N132D)→8-6-6-0-0-10(SNR0540)"