

# 「あすか」 OPERATION REPORT Ver.1.5

94 年 3 月 11 日 Y+ 384 KSC 当番: 宇野、田村<sup>†</sup>

VRO42.05.01N2 → VRO42.05.01N3 → BY CAM

|                              |                                                                |                                                                             |                                                                |                                                                |                                                                |      |      |        |        |             |
|------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|------|------|--------|--------|-------------|
|                              | PASS 1                                                         | PASS 2                                                                      | PASS 3                                                         | PASS 4                                                         | PASS 5                                                         |      |      |        |        |             |
| Pass No.                     | 940311-0204                                                    | 940311-0308                                                                 | 940311-0411                                                    | 940311-0514                                                    | 940311-0618                                                    |      |      |        |        |             |
| Operation                    | X REP<br>OP/OG WT/CK<br><br>DE 0 ADRS OF<br><br>OP START       | X REP<br>SBR A RNG<br>STLG WT/CK<br>OBS.MODE<br>DE 0 ADRS OF<br><br>RNG OFF | X REP<br>BDR STOP<br>X REP<br>BDR STOP                         | X REP<br>BDR STOP<br>X REP<br>BDR STOP                         | X REP<br>SBR-A RNG<br>RNG-OFF                                  |      |      |        |        |             |
| Target                       | VRO42.05.01N2                                                  | VRO42.05.01N2                                                               | VRO42.05.01N3                                                  | VRO42.05.01N3                                                  | VRO42.05.01N3                                                  |      |      |        |        |             |
| AOS(UT)                      | 01:50:43                                                       | 03:31:08                                                                    | 05:12:47                                                       | 06:54:28                                                       | 08:36:26                                                       |      |      |        |        |             |
| LOS(UT)                      | 02:01:41                                                       | 03:44:00                                                                    | 05:26:05                                                       | 07:07:34                                                       | 08:48:59                                                       |      |      |        |        |             |
| Max-El<br>Time               | 11.120<br>01:56:15                                             | 37.896<br>03:37:23                                                          | Zenith<br>—                                                    | Zenith<br>—                                                    | 40.608<br>08:42:09                                             |      |      |        |        |             |
| Rep-band(stat.)              | X ( Completed )                                                | X ( Completed )                                                             | X ( Completed )                                                | X ( Completed )                                                | X ( Completed )                                                |      |      |        |        |             |
| Rep-start                    | 01:51:48                                                       | 03:32:20                                                                    | 05:13:36/05:19:26                                              | 06:55:30/07:01:14                                              | 08:37:08                                                       |      |      |        |        |             |
| DP-mode                      | OBS                                                            | OBS                                                                         | OBS                                                            | OBS                                                            | OBS                                                            |      |      |        |        |             |
| ACS-mode                     | Normal-Pointing                                                | Normal-Pointing                                                             | Normal-Pointing                                                | Normal-Pointing                                                | Normal-Pointing                                                |      |      |        |        |             |
| ACS-spn/ $\theta_s$ $\phi_s$ | 4.44° , 224.29°                                                | 4.42° , 225.0°                                                              | 4.29° ,227.20°                                                 | 4.28° , 227.95°                                                | 4.25° , 228.96°                                                |      |      |        |        |             |
| Attitude                     | $\begin{bmatrix} 82.0978 \\ 46.8549 \\ 178.9176 \end{bmatrix}$ | $\begin{bmatrix} 82.0976 \\ 46.8549 \\ 178.9173 \end{bmatrix}$              | $\begin{bmatrix} 81.9232 \\ 47.2216 \\ 179.0578 \end{bmatrix}$ | $\begin{bmatrix} 81.9235 \\ 47.2216 \\ 179.0576 \end{bmatrix}$ | $\begin{bmatrix} 82.1383 \\ 46.7979 \\ 179.2723 \end{bmatrix}$ |      |      |        |        |             |
| OP-start(CE)                 | 01:57:22 ( 00h )                                               | Cont ( 09h )                                                                | Cont ( 1Ah )                                                   | Cont ( 24h )                                                   | Cont ( 2Eh )                                                   |      |      |        |        |             |
| SIS-mode                     | Fnt/Fnt<br>0123/0123                                           | Fnt/Fnt<br>0123/0123                                                        | Fnt/Fnt<br>0123/0123                                           | Fnt/Fnt<br>0123/0123                                           | Fnt/Fnt<br>0123/0123                                           |      |      |        |        |             |
| S0/1-TECT                    | -38.90/-38.99                                                  | -39.10/-39.19                                                               | -38.66/-38.90                                                  | -37.89/-38.17                                                  | -37.35/-37.68                                                  |      |      |        |        |             |
| S0/1-CCDT                    | -61.67/-61.77                                                  | -61.67/-61.77                                                               | -61.67/-61.81                                                  | -61.67/-61.81                                                  | -61.67/-61.81                                                  |      |      |        |        |             |
| 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                   | 24cps/23cps                                                    | 23cps/22cps                                                                 | 28cps/29cps                                                    | 30cps/33cps                                                    | 26cps/27cps                                                    |      |      |        |        |             |
| 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                                                        | 14.7 | 14.7 | 396.68 | 183.98 | 892         |
| Pass: 9403110204             |                                                                |                                                                             | 3/4                                                            | GFG3                                                           | 159 218                                                        | 8.7  |      | 393.44 | 181.17 | 858         |
| 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   |
| 20.20/23.40 | 20.20/23.50 | -4.21/4.75 | -4.21/4.78 | 4.82/8.74 | 4.82/8.46 |

## Manoeuvre Operation

| Start Time  | Target Name   | # | $(\alpha, \delta)$    | $(\phi, \theta, \psi)$           |
|-------------|---------------|---|-----------------------|----------------------------------|
| 03/11 03:55 | VRO42.95.01N3 | 3 | ( 81.5767 , 42.6500 ) | ( 81.9216 , 47.2212 , 179.0612 ) |
| 03/11 11:45 | BY CAM        | 4 | ( 85.7037 , 60.8578 ) | ( 86.1167 , 29.0996 , 172.7617 ) |

**Comment:** 本日の運用:

VRO 42.05.01 (PI: Burrows, US) was observed. Obtained flux  $\sim 0.22$  c/s/SIS(S0C1) and its spectrum was approximately described with Raymond-Smith model.

昨夜、焼酎を片手に星空へ出た。ライトアップされた 20 m アンテナのシルエットが幻想的な雰囲気をつくっていた。(宇野)

PASS の間に銀河連邦の森で迷いそうになり焦った。(T.⊥)