

# 「あすか」 OPERATION REPORT Rev.5 Ver 3.1

1996 年 08 月 07 日 Y+ 1264 KSC 当番: M. Itoh and Y. Tsuboi

Mark\_1 → HCG16

|                           | PASS 1                                                                                                                   | PASS 2                                                                                                            | PASS 3                                                                             | PASS 4                                                                             | PASS 5                                                                             |      |       |      |      |      |      |      |        |        |        |        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------|-------|------|------|------|------|------|--------|--------|--------|--------|
| Pass No.                  | 960807-0308                                                                                                              | 960807-0411                                                                                                       | 960807-0515                                                                        | 960807-0618                                                                        | 960807-0722                                                                        |      |       |      |      |      |      |      |        |        |        |        |
| Operation                 | X-REP<br>OP/OG-11 WRT<br>TCU-MEM<br>BAT-A-TCL-ON<br>BAT-B-TCL-ON<br>ACS-ERR-RST<br>CPU2/3-STOP<br>CPU2/3-RST<br>OP-START | X-REP<br>SBR-A-RNG<br>STAR-02 WRT<br>S-CTLG-CHK<br>OBSERVE<br>ACS-ERR-RST<br>CPU2/3-STOP<br>CPU2/3-RST<br>RNG-OFF | X-REP<br>ACS-ERR-RST<br>BDR-STOP<br>X-REP<br>BDR-STOP                              | X-REP<br>SBR-A-RNG<br>CPU2/3-STOP<br>CPU2/3-RST<br>GIS-MEM<br>RNG-OFF              | X-REP                                                                              |      |       |      |      |      |      |      |        |        |        |        |
| Target                    | Mark_1                                                                                                                   | Mark_1                                                                                                            | HCG16                                                                              | HCG16                                                                              | HCG16                                                                              |      |       |      |      |      |      |      |        |        |        |        |
| AOS(UT)                   | 03:44:26                                                                                                                 | 05:26:05                                                                                                          | 07:07:15                                                                           | 08:48:59                                                                           | 10:30:32                                                                           |      |       |      |      |      |      |      |        |        |        |        |
| LOS(UT)                   | 03:57:25                                                                                                                 | 05:39:00                                                                                                          | 07:20:39                                                                           | 09:02:00                                                                           | 10:42:20                                                                           |      |       |      |      |      |      |      |        |        |        |        |
| Max-El                    | 28.728°                                                                                                                  | 72.674°                                                                                                           | Zenith                                                                             | 50.513°                                                                            | 16.968°                                                                            |      |       |      |      |      |      |      |        |        |        |        |
| Time                      | 03:50:34                                                                                                                 | 05:31:48                                                                                                          | —                                                                                  | 08:54:48                                                                           | 10:35:55                                                                           |      |       |      |      |      |      |      |        |        |        |        |
| Rep-band(stat.)           | X ( Complete )                                                                                                           | X ( Complete )                                                                                                    | X ( Complete )                                                                     | X ( Complete )                                                                     | X ( Complete )                                                                     |      |       |      |      |      |      |      |        |        |        |        |
| Rep-start                 | 03:46:06                                                                                                                 | 05:26:46                                                                                                          | 07:08:12/07:13:56                                                                  | 08:49:45                                                                           | 10:31:52                                                                           |      |       |      |      |      |      |      |        |        |        |        |
| DP-mode                   | OBS/TCU/OBS                                                                                                              | OBS/ACS/OBS                                                                                                       | OBS                                                                                | OBS/GIS/OBS                                                                        | OBS                                                                                |      |       |      |      |      |      |      |        |        |        |        |
| ACS-mode                  | Normal-Pointing                                                                                                          | Normal-Pointing                                                                                                   | Normal-Pointing                                                                    | Normal-Pointing                                                                    | Normal-Pointing                                                                    |      |       |      |      |      |      |      |        |        |        |        |
| SUN-pos $\theta_s/\phi_s$ | 14.62°/204.20°                                                                                                           | 14.68°/204.21°                                                                                                    | 18.29°/198.31°                                                                     | 18.34°/198.08°                                                                     | 18.41°/197.93°                                                                     |      |       |      |      |      |      |      |        |        |        |        |
| Attitude                  | $\begin{bmatrix} 18.84847^\circ \\ 57.04893^\circ \\ 23.80242^\circ \end{bmatrix}$                                       | $\begin{bmatrix} 18.84838^\circ \\ 57.04932^\circ \\ 23.80469^\circ \end{bmatrix}$                                | $\begin{bmatrix} 32.21814^\circ \\ 100.22444^\circ \\ 8.06104^\circ \end{bmatrix}$ | $\begin{bmatrix} 32.21828^\circ \\ 100.22426^\circ \\ 8.06155^\circ \end{bmatrix}$ | $\begin{bmatrix} 32.21828^\circ \\ 100.22426^\circ \\ 8.06155^\circ \end{bmatrix}$ |      |       |      |      |      |      |      |        |        |        |        |
| OP-start(CE)              | 03:54:20 ( 00h )                                                                                                         | Cont ( 0Ah )                                                                                                      | Cont ( 1Bh )                                                                       | Cont ( 26h )                                                                       | Cont ( 31h )                                                                       |      |       |      |      |      |      |      |        |        |        |        |
| GIS HAM ERR               | ERR→ Reset                                                                                                               | ERR → Reset                                                                                                       | —                                                                                  | —                                                                                  | —                                                                                  |      |       |      |      |      |      |      |        |        |        |        |
| ACS ERR                   | (SH)MOMCHG<br>→ Reset                                                                                                    | (SH)MOMCHG<br>→ Reset                                                                                             | RWAOM<br>→ Reset                                                                   | —                                                                                  | —                                                                                  |      |       |      |      |      |      |      |        |        |        |        |
| SIS-mode                  | Faint/Faint<br>1111/3333                                                                                                 | Faint/Faint<br>1111/3333                                                                                          | Faint/Faint<br>1111/3333                                                           | Faint/Faint<br>1111/3333                                                           | Faint/Faint<br>1111/3333                                                           |      |       |      |      |      |      |      |        |        |        |        |
| S0/1-TECT                 | −34.88/−35.15°C                                                                                                          | −34.05/−34.33°C                                                                                                   | −33.04/−33.16°C                                                                    | −32.74/−32.87°C                                                                    | −31.73/−31.85°C                                                                    |      |       |      |      |      |      |      |        |        |        |        |
| S0/1-CCDT                 | −60.31/−60.03°C                                                                                                          | −60.59/−60.31°C                                                                                                   | −60.59/−60.31°C                                                                    | −60.49/−60.22°C                                                                    | −60.12/−59.84°C                                                                    |      |       |      |      |      |      |      |        |        |        |        |
| 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                | 26/26 cps                                                                                                                | 33/31 cps                                                                                                         | 27/29 cps                                                                          | 31/28                                                                              | 25/24 cps                                                                          |      |       |      |      |      |      |      |        |        |        |        |
| P                         | X                                                                                                                        | Y                                                                                                                 | R                                                                                  | S                                                                                  | Pos                                                                                | MErr | HV_HL | Gain | RT-L | RT-U | Temp | RBMT | CalPk  | CalCnt | CalTim | RT Pk  |
| 10                        | 8                                                                                                                        | 8                                                                                                                 | 5                                                                                  | 0                                                                                  | FLF                                                                                | 2    | 3/4   | 48   | 159  | 218  | 16.9 | 16.9 | 378.02 | 1103   | 11744  | 184.22 |
| Pass: 960807-0308         |                                                                                                                          |                                                                                                                   |                                                                                    |                                                                                    |                                                                                    |      | 3/4   | 40   | 159  | 218  | 11.5 |      | 403.26 | 1046   | 11744  | 180.07 |

SIS Mode Changes: Faint(bit-H,M) 1111/3333, ADR Off LVL Off for Mark\_1  
Faint(bit-H,M) 1111/3333, ADR Off LVL Off for HCG16

GIS Mode Changes: PH 10-8-8-5-0-0

## Battery Condition (min/max)

| BAT_V-A     | BAT_V-B     | BAT_I-A    | BAT_I-B    | BAT_T-A   | BAT_T-B   |
|-------------|-------------|------------|------------|-----------|-----------|
| 19.40/23.30 | 19.40/23.30 | -4.34/4.75 | -4.43/4.78 | 4.82/9.03 | 4.82/8.46 |

## Maneuver Operation

| Start Time  | Target Name | # | ( $\alpha, \delta$ )   | ( $\phi, \theta, \psi$ )        |
|-------------|-------------|---|------------------------|---------------------------------|
| 08/07 05:45 | HCG16       | 3 | ( 32.3833 , -10.1500 ) | ( 32.2179 , 100.2246 , 8.0610 ) |

**Comment:** 本日の運用: Mark\_1 was observed (PI=A.Wilson: US). The count rates were 0.01 c/s for SIS (background included) and 0.003 c/s/ for GIS (background roughly subtracted). The second target was HCG16 (PI=Y. Fukazawa: JPN). Several peaks were detected. The count rates were 0.01 c/s for SIS (background included; entire chip), and 0.006 for the brightest peak in the GIS (background roughly subtracted). HCG16 へのマヌーバでRW-A 回転数異常検出。8 月から 9 月にかけて、20m アンテナと SA テレメータの間の昇交橋 (そういう名前らしい) を改修するようです。橋の下はかつては鬱そうとした繁みで、水音が聴こえていたので沢があったのではないかと思います。ところが砂利ですっかり埋められていました。谷のもっていた奥深さが奪われてしまったようで、気の毒に感じました。(伊藤)

起きたら既に見崎くんは消感していた。2 週間おつかれ様でした。今日おばちゃんに「小鹿を一本お願いします。」と頼んだら、伊藤さんが「僕も牛乳買って来て下さい。」と頼んでいた。おばちゃんから「反対じゃないかね?」と言われた。(坪井)