

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

1999 年 09 月 20/21 日    Y+ 2403/2404    KSC 当番: M.Kokubun and M.Kohno

PKS1830-211.N3 → 4U1728-34

|                                  | PASS 1                                                                                | PASS 2                                | PASS 3                                                                                                                 | PASS 4                                | PASS 5                                                                                |
|----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| Pass No.                         | 990920-1236                                                                           |                                       | 990920-1443                                                                                                            |                                       | 990921-0001                                                                           |
| Operation                        | X-REP<br>OP/OG-04<br>WRT<br>TCU-MEM<br>OP-START                                       | (YOHKOH)                              | X-REP<br>STAR-04 WRT<br>S-CTLG-CHK<br>OBSERVE<br>BDR-STOP<br>X-REP<br>CPU2/3-STOP<br>CPU2/3-RST<br>GIS-MEM<br>BDR-STOP | (YOHKOH)                              | X-REP                                                                                 |
| Target                           | PKS1830-<br>211.N3                                                                    |                                       | PKS1830-<br>211.N3                                                                                                     |                                       | PKS1830-<br>211.N3                                                                    |
| AOS(UT)                          | 17:44:58                                                                              |                                       | 21:05:12                                                                                                               |                                       | 00:26:57                                                                              |
| LOS(UT)                          | 17:56:05                                                                              |                                       | 21:17:40                                                                                                               |                                       | 00:38:08                                                                              |
| Max-El<br>Time                   | 19.051°<br>17:49:59                                                                   |                                       | Zenith<br>—                                                                                                            |                                       | 21.091°<br>00:32:04                                                                   |
| Rep-<br>band(stat.)<br>Rep-start | X ( Complete )<br>17:44:58                                                            | ( )                                   | X ( Complete )<br>21:06:38/21:11:40                                                                                    | ( )                                   | X ( Complete )<br>00:27:40                                                            |
| DP-mode                          | OBS/TCU/OBS                                                                           |                                       | OBS/ACS/GIS/OBS                                                                                                        |                                       | OBS                                                                                   |
| ACS-mode                         | Normal-<br>Pointing                                                                   |                                       | Normal-<br>Pointing                                                                                                    |                                       | Normal-<br>Pointing                                                                   |
| SUN-pos $\theta_s/\phi_s$        | 11.96°/207.59°                                                                        |                                       | 11.85°/207.99°                                                                                                         |                                       | 11.76°/208.40°                                                                        |
| Attitude                         | $\begin{bmatrix} 278.62638^\circ \\ 111.00359^\circ \\ 177.30517^\circ \end{bmatrix}$ | $\begin{bmatrix} \\ \\ \end{bmatrix}$ | $\begin{bmatrix} 278.62637^\circ \\ 111.00337^\circ \\ 177.30508^\circ \end{bmatrix}$                                  | $\begin{bmatrix} \\ \\ \end{bmatrix}$ | $\begin{bmatrix} 278.62650^\circ \\ 111.00323^\circ \\ 177.30537^\circ \end{bmatrix}$ |
| OP-start(CE)                     | 17:53:02 ( 00h )                                                                      | ( )                                   | Cont ( 17h )                                                                                                           | ( )                                   | Cont ( 2Ch )                                                                          |
| GIS HAM ERR                      | —                                                                                     |                                       | —                                                                                                                      |                                       | —                                                                                     |
| ACS ERR                          | —                                                                                     |                                       | —                                                                                                                      |                                       | —                                                                                     |
| SIS-mode                         | Fnt/Fnt<br>1111/3333                                                                  |                                       | Fnt/Fnt<br>111/3333                                                                                                    |                                       | Fnt/Fnt<br>1111/3333                                                                  |
| S0/1-TECT                        | -34.30/ —<br>34.33°C                                                                  |                                       | -34.68/ —<br>34.62°C                                                                                                   |                                       | -35.16/ —<br>35.59°C                                                                  |
| S0/1-CCDT                        | -60.45/ —<br>60.12°C                                                                  |                                       | -60.21/ —<br>59.89°C                                                                                                   |                                       | -60.26/ —<br>59.89°C                                                                  |
| GIS-mode                         | PH(10-8-5-5-<br>0)                                                                    |                                       | PH(10-8-5-5-<br>0)                                                                                                     |                                       | PH(10-8-5-5-<br>0)                                                                    |
| GIS LD Hit                       | 21.7/23.1 c s <sup>-1</sup>                                                           |                                       | 24.1/24.7 c s <sup>-1</sup>                                                                                            |                                       | 23.0/23.6 c s <sup>-1</sup>                                                           |

| 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 | 0    | 3/4   | 48   | 159  | 218  | 14.7 | 15.2 | 374.39 | 576    | 15200  | 184.23 |
| Pass: 990920-1236 |   |   |   |   |     |      | 3/4   | 40   | 159  | 218  | 9.3  |      | 402.36 | 560    | 15200  | 180.32 |

SIS Mode Changes:    PKS1830-211.N3    1CCD(1111/3333)    F/F, LD ON(0.48keV), AD OF  
                                  4U1728-34            1CCD(1111/3333)    B/B, LD ON(0.55keV), AD OF

GIS Mode Changes:    PKS1830-211.N3    PH(10-8-8-5-0)  
                                  4U1728-34            PH(10-8-8-5-0)

## Battery Condition (min/max)

| BAT_V-A     | BAT_V-B     | BAT_I-A    | BAT_I-B    | BAT_T-A   | BAT_T-B   |
|-------------|-------------|------------|------------|-----------|-----------|
| 18.30/23.20 | 18.30/23.30 | -5.11/4.75 | -5.68/4.78 | 4.82/8.74 | 4.27/7.89 |

## Maneuver Operation

| Start Time  | Target Name | # | ( $\alpha$ , $\delta$ ) | ( $\phi$ , $\theta$ , $\psi$ ) |
|-------------|-------------|---|-------------------------|--------------------------------|
| 09/21 02:10 | 4U1728-34   | 4 | (262.9887, -33.8346)    | (263.2319, 123.7916, 173.6471) |

**Comment: 本日の運用:** ASCA observed GX\_339-4\_N4 (BIN, PI:H.Negoro/Nowak (MJU)). Observed count rate was 0.10 c/s for the GIS and 0.15 c/s for the SIS.

またも台風です。最大風速 35m が直撃してきたらさすがにアンテナは動かさないでしょう。(国分)

運用時間はどんどん早くなっていくのに食事やコマンドチェックは決まった時刻にやってくる。これが生活のリズムを難しくしている。しかも、今週は運用開始時刻が 0 時 (JST) を跨ぐので運用が 7 回あります。(河野)

自分を憐れむという贅沢がなければ、人生なんていうものは堪えられない場合がかなりあると私は思う。 ～ ギッシン  
グ～