「あすか」 OPERATION REPORT Ver.1.5

93 年 8 月 04 日　Y+ 165∼166　KSC 当番: 石田 、 Keith、川嶋

Algol

	PASS 1	PASS 2	PASS 3	PASS 4	PASS 5
Pass No.	930804–0929	930804–1032	930804–1135	930804–1239	930804–1342
Operation	X-REP RNG OP-OG-WRT OP-STRT	X-REP	X-REP BDR-STOP X-REP BDR-STOP	X-REP RNG	X-REP
Target	Algol	Algol	Algol	Algol	Algol
AOS(UT) LOS(UT)	14:04:01 14:17:22	15:45:59 15:59:23	17:27:32 17:40:41	19:09:39 19:22:37	20:51:30 21:02:39
Max-El Time	31.102 14:10:30	74.034 15:52:02	Zenith —	49.309 19:15:30	15.799 20:56:45
Rep-band(stat.) Rep-start	X (Completed) 14:05:40	X (Completed) 15:47:02	X (Interrupted) 17:28:36/17:34:24	X (Completed) 19:10:26	X (Completed) 20:52:52
DP-mode	OBS	OBS	OBS	OBS	OBS
ACS-mode ACS-spn/θ_s	Normal–Pointing —°	Normal–Pointing —-°	Normal–Pointing 12.69°	Normal–Pointing 12.64°	Normal–Pointing 12.58°
Attitude	$\begin{bmatrix} 46.836 \\ 49.130 \\ 11.468 \end{bmatrix}$	$\begin{bmatrix} 46.835 \\ 49.130 \\ 11.469 \end{bmatrix}$	$\begin{bmatrix} 46.835 \\ 49.130 \\ 11.469 \end{bmatrix}$	$\begin{bmatrix} 46.836 \\ 49.130 \\ 11.469 \end{bmatrix}$	$\begin{bmatrix} 46.836 \\ 49.130 \\ 11.469 \end{bmatrix}$
OP-start(CE)	14:14:52 (00h)	Cont (07h)	Cont (11h)	Cont (18h)	Cont (1Fh)
SIS-mode	Bright/Bright 1CCD	Bright/Bright 1CCD	Bright/Bright 1CCD	Bright/Bright 1CCD	Bright/Bright 1CCD
S0/1-TECT	−42.78/−43.03	−42.93/−43.17	−43.41/−43.61	−44.24/−44.39	−44.97/−45.12
S0/1-CCDT	−61.71/−61.81	−61.71/−61.81	−61.71/−61.81	−61.71/−61.81	−61.71/−61.81
GIS-mode	PH	PH	PH	PH	PH
GIS LD Hit	22cps/26cps	27cps/26cps	31cps/31cps	34cps/35cps	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	–	3/4	48	159	218	11.5	10.9	414.0	183.73	5623
Pass: S9308040929							3/4	40	159	218	4.9		428.16	181.79	5223

GIS Mode Changes: no change

Condition Condition (min/max)

BAT_V–A	BAT_V–B	BAT_I–A	BAT_I–B	BAT_T–A	BAT_T–B	Charge/Discharge
20.40/23.50	20.40/23.50	−4.25/4.73	−4.34/4.76	4.82/8.74	4.82/8.46	1.064842/1.092027

Manoeuvre Operation

Start Time	Target Name	#	(α, δ)	(ϕ, θ, ψ)
			(,)	(, ,)
			(,)	(, ,)
			(,)	(, ,)

Comment: 本日の運用: We stayed on Algol.
MS の操作ミスのため OP START が 22 秒ほど遅れました。また、夜 10 時から翌朝 11 時まで断水で困りました。
あれだけ雨が降っているのにどうして水が出ないんだっ！（石田）
みずがでない！（かわしま）
One thing to be aware of in the Algol observation is that the intenal background of the SIS introduces Fe and Ni fluorescence lines. The effect is bigger in 1 CCD rather than 4 CCD mode, since this part of the background is happening in the frame store array. As a check for this, make use of the known fact that the internal backgroun Fe/Ni line ratios are different on S0 and S1- also the Fe line intensity is always smaller

than the Ni line intensity–¿ this puts a limit on the contribution of the internal background Fe to the cosmic Fe line.
There will be a big fishing trip tonight with ASCA, as we fish for GROj1008-58! Hopefully, we will have water to put the fish into tonight. (kcg)