「あすか」 OPERATION REPORT Rev.5 Ver 3.0

94 年 6 月 14 日 Y+ 479 KSC 当番: T.Tsuru 、 K.Okada

MKW4 NW→MKW4 SE→MKW4 NE

	PASS 1	PASS 2	PASS 3	PASS 4	PASS 5
Pass No.	940614–0309	940614–0412	940614–0515	940614–0619	940614–0722
Operation	X REP OP/OG-6 RAM TCU MEM DE-0 ADRS OF (04:10:11) ACS ERR CODE RESET OP STRT	X REP SBR-A RNG DE-0 ADRS OF STAR-06 RAM S-CTLG CHK OBSERVE MODE RNG OFF	X REP BDR STOP X REP BDR STOP	X REP SBR-A RNG DE-0 DARK DE-1 DARK CPU2/3 STOP CPU2/3 RST GIS MEM MODE RNG OFF	X REP STA CAL DIS (10:57:08) STB CAL DIS (10:57:22)
Target	MKW4 NW	MKW4 NW	MKW4 NW	MKW4 NW	MKW4 NW
AOS(UT)	04:01:25	05:43:27	07:24:15	09:06:23	10:47:41
LOS(UT)	04:12:59	05:55:06	07:36:55	09:18:14	10:58:54
Max-El	17.711	53.435	Zenith	65.124	23.391
Time	04:07:28	05:48:40	—	09:11:39	10:52:56
Rep-band(stat.)	X (Completed)	X (Completed)	X (Completed)	X (Completed)	X (Completed)
Rep-start	04:03:31	05:45:03	07:25:27/07:30:57	09:08:07	10:48:43
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
ACS-spn/θ_s ϕ_s	7.37°, 181.33°	7.32°, 181.34°	7.26°, 181.35°	7.16°, 181.57°	7.11°, 181.59°
Attitude	$\begin{bmatrix} 181.39549 \\ 87.94407 \\ 155.96178 \end{bmatrix}$	$\begin{bmatrix} 181.39572 \\ 87.94371 \\ 155.96139 \end{bmatrix}$	$\begin{bmatrix} 181.395 \\ 87.944 \\ 155.962 \end{bmatrix}$	$\begin{bmatrix} 181.396 \\ 87.944 \\ 155.962 \end{bmatrix}$	$\begin{bmatrix} 181.39605 \\ 87.94422 \\ 155.96214 \end{bmatrix}$
OP-start(CE)	04:10:11 (00h)	Cont (0Ah)	Cont (15h)	Cont (20h)	Cont (2Bh)
GIS HAM ERR	NORM	NORM	ERR	NORM	NORM
ACS ERR	(SH)MOMCHG	–	–	–	–
SIS-mode	Faint/Faint 0123/0123	Faint/Faint 0123/0123	Faint/Faint 0123/0123	Faint/Faint 0123/0123	Faint/Faint 0123/0123
S0/1-TECT	−36.87/−36.76	−36.38/−36.22	−36.43/−36.27	−35.36/−35.20	−34.25/−34.18
S0/1-CCDT	−61.62/−61.53	−61.62/−61.67	−61.67/−61.77	−61.67/−61.72	−61.62/−61.58
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	22cps/25cps	26cps/30cps	25cps/28cps	28cps/25cps	28cps/28cps

P X Y R S	Pos	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	14.2	13.6	395.54	183.87	1328
Pass: 9406140309		3/4	40	159	218	7.1		413.84	181.24	1236

GIS Mode Changes: 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
20.00/23.43	20.03/23.50	−4.18/4.75	−4.20/4.76	4.82/8.74	4.82/8.46

Manoeuvre Operation

Start Time	Target Name	#	(α, δ)	(ϕ, θ, ψ)
06/14 11:00	MKW4 SE	3	(181.1155 , 1.9050)	(181.4878 , 88.1876 , 155.9607)
06/14 22:00	MKW4 NE	4	(181.1155 , 1.9050)	(181.5625 , 88.0202 , 155.9582)

Comment: 本日の運用:

Today's oservation is mapping of poor cluster MKW4 (PI:Tsuru JPN). Temperature is 1.4-1.8keV and abundance is 0.25-0.55 solar. Assuming a single Raymond-Smith spectral model, SIS0 spectrum needs extra absorption of nH=2e21 cm-2 except the Galactic one (nH=1.9e20cm-2). The descripancy between the data and the model around 1.2keV seen in SIS0 spectrum may suggest multi temperature components. ね、MKW4 は楽しめるでしょ。MKW4 は David さんのと合わせてトータルで 120ksec も頂いて、しかも Mapping までやってますね。これでまともな論文が書けなかったら (書かなかったら)PI の立場は極めて悪くなるだろうなぁ。可哀想に…(ちょっと嬉しい T.Tsuru)。下位ビットの丁稚奉公はとても勉強になります (K. Okada)。