「あすか」 OPERATION REPORT Rev.5 Ver 3.1

1996 年 09 月 17 日　Y+ 1305　KSC 当番: S.Yamauchi and N.Iyomoto

Crab Nebula #1 → Crab Nebula #2 → Crab Nebula #3

	PASS 1	PASS 2	PASS 3	PASS 4	PASS 5
Pass No.	960917–0516	960917–0620	960917–0723		960917–0930
Operation	X-REP SBR-A-RNG OP/OG-09 WRT TCU-MEM BC[65,40,809F] BC[66,40,015D] BC[65,01,80C5] BC[66,01,0183] BC[67,41,0095] BC[68,41,0153] OP-START RNG-OFF	X-REP STAR-03 WRT S-CTLG-CHK OBSERVE CPU2/3-STOP CPU2/3-RST BDR-STOP X-REP BDR-STOP	X-REP BDR-STOP X-REP BDR-STOP	(YOHKOH)	X-REP ACS-ERR-RST CPU2/3-STOP CPU2/3-RST GIS-MEM
Target	Crab Nebula #1	Crab Nebula #1	Crab Nebula #1		Crab Nebula #1
AOS(UT) LOS(UT)	07:58:20 08:10:58	09:39:46 09:52:34	11:21:18 11:34:08		14:44:50 14:55:17
Max-El Time	36.512° 08:04:11	Zenith —	Zenith —		11.613° 14:49:20
Rep-band(stat.) Rep-start	X (Complete) 07:59:35	X (Complete) 09:40:41/09:45:55	X (Complete) 11:22:19/11:27:25	( )	X (Complete) 14:45:45
DP-mode	OBS/TCU/OBS	OBS/ACS/OBS	OBS		OBS
ACS-mode SUN-pos θ_S/ϕ_S Attitude	Normal–Pointing 9.66°/94.24° [83.44286° 68.09271° 12.07811°]	Normal–Pointing 9.61°/94.88° [83.44290° 68.09248° 12.07879°]	Normal–Pointing 9.62°/95.34° [83.44264° 68.09262° 12.07835°]	[ ]	Normal–Pointing — [83.44262° 68.09246° 12.07907°]
OP-start(CE)	08:08:01 (00h)	Cont (0Ch)	Cont (16h)	( )	Cont (25h)
GIS HAM ERR	OK	ERR → Reset	OK		ERR → Reset
ACS ERR	(SH)MOMCHG → Reset	—	—		(SH)MOMCHG → Reset
SIS-mode S0/1-TECT S0/1-CCDT	Faint 1111/3333 −35.27/−35.47°C −61.62/−61.67°C	Bright 1111/3333 −35.56/−35.79°C −61.62/−61.72°C	Bright 1111/3333 −35.41/−35.59°C −61.62/−61.72°C		Bright 1111/3333 −35.17/−35.20°C −61.57/−61.67°C
GIS-mode GIS LD Hit	PH(10-8-8-5-0) 25/29 cps	PH(10-8-8-5-0) 26/28 cps	PH(10-8-8-5-0) 29/28 cps		PH(10-8-8-5-0) 590/670 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	13.6	13.6	353.42	1612	10604	183.93
Pass: GPASS							3/4	40	159	218	8.2		410.34	660	10604	181.24

SIS Mode Changes: Faint/Bright 1111/3333 for Crab Nebula#1, Faint 0123/2301 and 1111/3333 for Crab Nebula#2, Bright 3333/1111 for Crab Nebula#3

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
19.30/23.30	19.30/23.30	−4.90/4.83	−4.68/5.08	4.82/9.03	4.82/8.46

Maneuver Operation

Start Time	Target Name	#	(α, δ)	(ϕ, θ, ψ)
09/17 23:50	Crab Nebula #2	3	(83.6330 , 22.0145)	(83.4586 , 68.4222 , 12.0619)
09/18 03:00	Crab Nebula #3	4	(83.6330 , 22.0145)	(83.3024 , 68.3876 , 12.1189)

Comment: 本日の運用: We observed Crab Nebula (calibration, MOT). The LD hit count rate was 590 cps for GIS2 and 670 cps for GIS3. The GIS spectrum was fitted by a power-law model with a photon index of 2.1

昨日の運用記録の中に書き落した部分がありました。Crab pulsar #2 では PH mode だけでなく MPC mode での観測もありましたので、訂正します。今日の 5 パスめは elevation が低く、X-REP が終了して 1 5 秒後に X lock off になりました。以前 elevation 10deg 台の受信をやったことがありますが、心臓によくないですね。（山内 S）

今日も Bright モード。今日はスペクトルはできたけど、変にガタガタしている。ホットピクセル除去を Bright 用にしなかったせいか、レスポンスを間違えたのか。キャル観測は変わったディスクリやビット配分があるので退屈しない。（伊予本）