

「あすか」 OPERATION REPORT Rev.5 Ver 3.1

1996 年 09 月 18 日 Y+ 1306 KSC 当番: S.Yamauchi and N.Iyomoto

Crab Nebula#3 → Crab Nebula#4 → H1705-250 → SAX-BATSE-BURST

	PASS 1	PASS 2	PASS 3	PASS 4	PASS 5												
Pass No.	960918-0413	960918-0516	960918-0620		960918-0826												
Operation	X-REP OP/OG-13 WRT TCU-MEM ACS-ERR-RST OP-START	X-REP SBR-A-RNG STAR-04 WRT S-CTLG-CHK OBSERVE RNG-OFF	X-REP ACS-ERR-RST CPU2/3-STOP CPU2/3-RST BDR-STOP X-REP BDR-STOP	(YOHKOH)	SBR-A-RNG X-REP ACS-ERR-RST CPU2/3-STOP CPU2/3-RST GIS-MEM RNG-OFF												
Target	Crab Nebula #3	Crab Nebula #3	Crab Nebula #4		Crab Nebula #4												
AOS(UT)	06:13:31	07:54:44	09:35:30		12:58:33												
LOS(UT)	06:24:50	08:06:48	09:48:27		13:10:50												
Max-El	14.301°	46.960°	Zenith		29.594°												
Time	06:19:01	07:59:59	—		13:04:06												
Rep-band(stat.)	X (Complete)	X (Complete)	X (Complete)	()	X (Complete)												
Rep-start	06:14:29	07:55:23	09:36:33/09:42:03		12:59:35												
DP-mode	OBS/TCU/OBS	OBS/ACS/OBS	OBS		OBS												
ACS-mode	Normal-Pointing	Normal-Pointing	Normal-Pointing		Normal-Pointing												
SUN-pos θ_s/ϕ_s	9.77°/100.61°	9.78°/100.91°	9.73°/100.04°		—												
Attitude	$\begin{bmatrix} 83.30245^\circ \\ 68.38751^\circ \\ 12.11897^\circ \end{bmatrix}$	$\begin{bmatrix} 83.30269^\circ \\ 68.38727^\circ \\ 12.11801^\circ \end{bmatrix}$	$\begin{bmatrix} 83.53473^\circ \\ 67.97117^\circ \\ 12.03031^\circ \end{bmatrix}$	$\begin{bmatrix} \\ \\ \end{bmatrix}$	$\begin{bmatrix} 83.53454^\circ \\ 67.97097^\circ \\ 12.03047^\circ \end{bmatrix}$												
OP-start(CE)	06:21:11 (00h)	Cont (09h)	Cont (1Ah)	()	Cont (31h)												
GIS HAM ERR	OK	OK → Reset	ERR → Reset		OK												
ACS ERR	(SH)MOMCHG → Reset	—	(SH)MONCHG → Reset		(SH)MOMCHG → Reset												
SIS-mode	Bright 3333/1111	Bright 3333/1111	Bright 1111/3333		Bright 1111/3333												
S0/1-TECT	−36.58/−36.81°C	−36.62/−36.81°C	−36.43/−36.61°C		−35.32/−35.44°C												
S0/1-CCDT	−61.62/−61.72°C	−61.62/−61.77°C	−61.67/−61.77°C		−61.62/−61.72°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)												
GIS LD Hit	21/23 cps	26/26 cps	26/32 cps		320/370 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	1	3/4	48	159	218	13.1	13.1	389.02	815	10664	183.65	
Pass: 960918-0413							3/4	40	159	218	7.6		413.33	863	10664	180.25	

SIS Mode Changes: Bright 3333/1111 for Crab Nebula#3, Bright 1111/3333 for Crab Nebula#4, Faint/Bright 0101/2323 for H1705-250, Faint 0123/2301 bit-H and Faint 1212/1212 bit-M for SAX-BATSE-BURST

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	-4.81/4.75	-4.99/4.78	4.82/9.03	4.82/8.46

Maneuver Operation

Start Time	Target Name	#	(α, δ)	(ϕ, θ, ψ)
09/18 08:10	Crab Nebula #4	5	(83.6330 , 22.0145)	(83.5344 , 67.9717 , 12.0301)
09/18 14:10	H1705-250	6	(257.0604 , -25.0914)	(257.2838 , 115.0553 , 171.6875)
09/19 02:50	SAX-BATSE-BURST1		(262.4000 , 49.0367)	(262.7327 , 40.8106 , 186.1502)

Comment: 本日の運用: We observed Crab Nebula (calibration, MOT). The LD hit count rate was 320 cps for GIS2 and 370 cps for GIS3 (Crab Nebula#4). The GIS spectrum was fitted by a power-law model with a photon index of about 2. 今日も Crab づくしです。昨日の QL の Crab pulsar (timing calibration) のスペクトルで 3-4keV のところがサチっている (?) ということを書きましたが、GIS2 と GIS3 をそれぞれ見てみると、単に discri level の値が違っているための重ね合わせ効果であることが池辺君の指摘で分かりました。今日の QL ファックスで GIS2 と GIS3 を別々にだしたスペクトルを送ります。でも実際の discri level は 4keV には見えない。(山内S) 今日も Bright モードですが、やっとまともなスペクトルが作れました。(伊予本)