

データの積分時間が短く各々のスペクトルはわかりませんが、今後の解析が楽しみです。（深沢）
本日1パスめの入感時にふと太陽角をみると68.7度だった。とうとう来たかと思っていると、どうもACS系、PI系におかしな所は見られない。よくよく見ると大マヌーバのためにACS ERROR CODE(MOMCHG)が出ていた。ERROR CODE RESETを打つとそれまでマイナスだったバッテリー電流もプラスに、太陽角も12.0度に落ち着いた。大マヌーバは心臓に悪い！祈りが通じ今晚は久しぶりに星空が見えそうだ（鎌田）。

「あすか」 OPERATION REPORT Ver.1.5

93 年 7 月 22 日 Y+ 152~153 KSC 当番: 鎌田、深沢

A2256/M33

	PASS 1	PASS 2	PASS 3	PASS 4	PASS 5					
Pass No.	930722-1339	930722-1443	930722-1546	930723-0101	930723-0205					
Operation	X-REP OP-OG-WRT TCU-MODE ERR-CODE-RST (SH-MOMCHG) OP-STRT	X-REP RNG SCT-WRT OBS-MODE ERR-CODE-RST (SH-MOMCHG)	X-REP BDR-STOP X-REP BDR-STOP	X-REP RNG	X-REP ADRS-ON					
Target	A2256	A2256	M33	M33	M33					
AOS(UT)	19:20:35	21:01:57	22:43:11	00:25:06	02:06:45					
LOS(UT)	19:31:35	21:14:01	22:55:20	00:37:00	02:18:12					
Max-El Time	13.021 19:26:06	44.659 21:07:29	Zenith —	74.272 00:30:36	29.256 02:12:03					
Rep-band(stat.)	X (Completed)	X (Completed)	X (Interrupted)	X (Completed)	X (Completed)					
Rep-start	19:22:03	21:02:53	22:44:05/22:49:35	00:25:47	02:07:33					
DP-mode	OBS	OBS/ACS/OBS	OBS	OBS	OBS					
ACS-mode	Normal-Pointing	Normal-Pointing	Normal-Pointing	Normal-Pointing	Normal-Pointing					
ACS-spn/ θ_s	12.00°	11.98°	2.86°	2.78°	2.73°					
Attitude	$\begin{bmatrix} 257.685 \\ 11.464 \\ 131.657 \end{bmatrix}$	$\begin{bmatrix} 257.684 \\ 11.464 \\ 131.657 \end{bmatrix}$	$\begin{bmatrix} 23.303 \\ 59.450 \\ 21.833 \end{bmatrix}$	$\begin{bmatrix} 23.303 \\ 59.450 \\ 221.833 \end{bmatrix}$	$\begin{bmatrix} 23.303 \\ 59.450 \\ 21.833 \end{bmatrix}$					
OP-start(CE)	19:28:01 (00h)	Cont (0Bh)	Cont (1Ch)	Cont (25h)	Cont (25h)					
SIS-mode	Faint/Faint 4CCD	Faint/Faint 4CCD	Faint/Faint 4CCD	Faint/Faint 4CCD	Faint/Faint 4CCD					
S0/1-TECT	-36.43/-36.37	-37.21/-37.00	-38.22/-37.92	-39.05/-39.85	-39.58/-39.43					
S0/1-CCDT	-61.57/-61.25	-61.67/-61.48	-61.71/-61.81	-61.71/-61.81	-61.71/-61.81					
GIS-mode	PH	PH	PH	PH	PH					
GIS LD Hit	25cps/26cps	24cps/23cps	29cps/29cps	28cps/29cps	29cps/29cps					
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	12.0	12.0	411.08	183.84	2011
Pass: S9307221339			3/4	40	159 218	6.5		428.07	181.58	1908

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
20.10/23.40	20.10/23.40	-4.29/4.73	-4.43/4.76	4.82/8.74	4.82/8.46	no good data

Manoeuvre Operation

Start Time	Target Name	#	(α, δ)	(ϕ, θ, ψ)
7/22 21:40	M33(pos1)	3	(23.462 , 30.657)	(23.289 , 59.458 , 21.829)
7/23 08:50	M33(pos2)	4	(23.462 , 30.657)	(23.198 , 59.651 , 21.885)
			(,)	(, ,)

Comment: 本日の運用: Today we observed a rich cluster of galaxies A2256($z=0.60$) and a neayby galaxy M33(NGC598). A2256 is GIS: ~ 1.5 c/s and Fe-line is clearly seen at 6.3keV and $kT \sim 8$ keV.

Both SIS and GIS detected several sources in M33 ,which positions are almost the same as detected by Einstein IPC. X-ray emission around nuclear source is GIS: ~ 0.2 c/s and its spectrum is about 2.7keV.

M 3 3 は G I S でたくさんのポイントソースが見えていておもしろいです (S I S の視野外にいるものも含む) 。