

「あすか」 OPERATION REPORT Ver.1.5

93 年 6 月 30 日 Y+ 130 KSC 当番: 山内 S、岩澤

Centaurus Cluster/NGC 4472/EXO2030+375

	PASS 1		PASS 2		PASS 3		PASS 4		PASS 5						
Pass No.	930630-0515		930630-0619		930630-0722		930630-0826		930630-0929						
Operation	X-REP RNG OP-OG-WRT TCU-MODE OP-STRT		X-REP STC-WRT-CHK OBS-MOD		X-REP BDR-STOP X-REP BDR-STOP		X-REP RNG ERR-COD-RST (RWDOM)		X-REP HAM-ERR-RST						
Target	Cen.cluster		Cen.cluster		Cen.cluster		NGC4472		N4472/EXO2030						
AOS(UT)	7:27:21		9:09:02		10:50:58		12:33:00		14:15:22						
LOS(UT)	7:40:45		9:22:34		11:04:18		12:45:43		14:25:46						
Max-El	34.108		77.450		Zenith		45.668		14.236						
Time	7:33:44		9:15:19		—		12:38:47		14:20:03						
Rep-band(stat.)	X (Completed)		X (Completed)		X (Interrupted)		X (Completed)		X (Completed)						
Rep-start	7:28:46		9:09:57		10:51:52/10:57:57		12:33:39		14:16:12						
DP-mode	OBS/TCU/OBS		OBS/ACS/OBS		OBS		OBS		OBS						
ACS-mode	Normal-Pointing		Normal-Pointing		Normal-Pointing		Normal-Pointing		Normal-Pointing						
ACS-spn/ θ_s	17.20°		17.12°		17.07°		16.34°		—°						
Attitude	$\begin{bmatrix} 192.467 \\ 131.230 \\ 163.691 \end{bmatrix}$		$\begin{bmatrix} 192.466 \\ 131.228 \\ 163.683 \end{bmatrix}$		$\begin{bmatrix} 192.467 \\ 131.230 \\ 163.692 \end{bmatrix}$		$\begin{bmatrix} 187.615 \\ 81.999 \\ 172.757 \end{bmatrix}$		$\begin{bmatrix} 187.614 \\ 82.002 \\ 172.758 \end{bmatrix}$						
OP-start(CE)	7:38:02 (00h)		Cont (07h)		Cont (0Eh)		Cont (1Bh)		Cont (24h)						
SIS-mode	Faint/Faint 4CCD		Faint/Faint 4CCD		Faint/Faint 4CCD		Faint/Faint 4CCD		Faint/Faint 4CCD						
S0/1-TECT	-41.18/-40.99		-39.87/-39.77		-38.61/-38.60		-37.45/-37.44		-36.67/-36.56						
S0/1-CCDT	-61.71/-61.81		-61.71/-61.81		-61.76/-61.81		-61.71/-61.81		-61.71/-61.81						
GIS-mode	PH		PH		PH		PH		PH						
GIS LD Hit	26cps/26cps		30cps/31cps		33cps/34cps		31cps/33cps		22cps/25cps						
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	14.2	14.7	410.83	183.85	4258
Pass: s9306300515							3/4	40	159	218	9.3		426.66	181.68	3991
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
20.20/23.40	20.30/23.50	-4.16/4.73	-4.34/4.76	4.82/8.74	4.82/8.46	no data

Manoeuvre Operation

Start Time	Target Name	#	(α, δ)	(ϕ, θ, ψ)
6/30 12:20	NGC4472	2	(187.4436 , 7.9965)	(-172.3822 , 82.0003 , 172.7557)
7/01 02:30	EXO2030+375	3	(308.0631 , 37.6371)	(-52.0000 , 52.5327 , 57.0091)
			(,)	(, ,)

Comment: 本日の運用: 4パス目に私はまだ見たことのない ACS ERROR CODE(RWDOM) が出ていてびっくりしました。NGC4472 へ向かう MNV の時に出的ものと思われます。(山内 S)
 $z=0.011$ の Cen.Cluster A3526 の観測。強度は 2.4c/s/GIS2 くらい。スペクトルは $kT \sim 2.8\text{keV}$ の thermal emission で GIS SIS 共に Fe-K が見えています。SIS では low energy 側にいくつか輝線が見えているようです。NGC4472 は暗そう。(岩澤)