「あすか」 OPERATION REPORT Rev.5 Ver 3.1

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ANTI 5KPC ARM/ESO 103–G35/TAU SCO

	PASS 1	PASS 2	PASS 3	PASS 4	PASS 5
Pass No.	940903–0927	940903–1030	940903–1134	940903–1237	940903–1340 Routine record for each pass (UT) Pass-1
Operation	X REP SBR-RNG OP/OG-12 TCU MEM MODE ACS ERR RST STAR-04(5) S-CTLG CHK OBSERVE MODE DE-0/1 FAINT OP START RNG OFF	X REP CPU-2/3 STP CPU-2/3 RST STAR-05(6,1,2,3,4) S-CTLG CHK OBSERVE MODE BDR-STOP X-REP BDR STOP	X REP STAR-06(5) S-CTLG CHK OBSERVE MODE ACS ERR RST CPU-2/3 STP CPU-2/3 RST BDR STOP X REP BDR STOP	X REP SBR-A RNG OP STOP OR/OG-15 TCU MEM MODE STAR-01(6) S-CTLG CHK OBSERVE MODE CPU2/3 STOP CPU2/3 RST GIS MEM MODE OP STRT RNG OFF	X REP DE-0/1 FAINT
Target	ANTI 5KPC ARM	ANTI 5KPC ARM	ANTI 5KPC ARM	ANTI 5KPC ARM	ANTI 5KPC ARM
AOS(UT) LOS(UT)	13:08:19 13:21:21	14:49:20 15:02:58	16:31:48 16:44:22	18:13:33 18:25:45	19:55:48 20:05:30
Max-El Time	36.871 13:14:36	Zenith —	Zenith —	38.925 18:19:04	10.876 20:00:05
Rep-band(stat.) Rep-start	X (Complete) 13:09:38	X (Complete) 14:50:52/14:56:44	X (Complete) 16:32:44/16:38:30	X (Complete) 18:14:24	X (Incomplete) 19:56:54
DP-mode	OBS/ACS/OBS	OBS/ACS/OBS	OBS/ACS/OBS	OBS/ACS/OBS	OBS
ACS-mode ACS-spn/θ_s ϕ_s	Normal–Pointing Night	Normal–Pointing Night	Normal–Pointing Night	Normal–Pointing 2.67, 174.21	Normal–Pointing 2.95, 177.28
Attitude	$\begin{bmatrix} 248.08847 \\ 137.49180 \\ 171.94905 \end{bmatrix}$	$\begin{bmatrix} 249.21355 \\ 138.17055 \\ 172.78389 \end{bmatrix}$	$\begin{bmatrix} 248.94776 \\ 137.61919 \\ 172.53066 \end{bmatrix}$	$\begin{bmatrix} 248.68930 \\ 137.05131 \\ 172.26972 \end{bmatrix}$	$\begin{bmatrix} 248.83770 \\ 135.74615 \\ 172.97923 \end{bmatrix}$
OP-start(CE)	13:18:34 (00h)	Cont (10h)	Cont (1Fh)	18:22:32 (00h)	Cont (1Bh)
GIS HAM ERR	Normal	ERR	ERR	Normal	ERR
ACS ERR	(SH)MOMCHG	—	(SH)MOMCHG	—	—
SIS-mode	Faint/Faint 0123/2301	Faint/Faint 0123/2301	Faint/Faint 0123/2301	Faint/Faint 0123/2301	Bright/Bright 0123/2301
S0/1-TECT	−40.02/−39.96	−40.36/−40.30	−40.50/−40.45	−40.80/−40.74	−41.62/−41.52
S0/1-CCDT	−61.67/−61.77	−61.67/−61.77	−61.67/−61.77	−61.67/−61.77	−61.67/−61.77
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	28cps/25cps	32cps/32cps	28cps/29cps	26cps/27cps	26cps/20cps

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	HAM ERR	3/4	48	159	218	13.6	14.1	395.67	183.72	1902
Pass: 940903-0927			3/4	40	159	218	7.6		421.83	181.15	1807

GIS Mode Changes: 10–8–8–5–0

Battery Condition (min/max)

BAT_V–A	BAT_V–B	BAT_I–A	BAT_I–B	BAT_T–A	BAT_T–B
20.1/23.5	20.1/23.5	−4.29/4.73	−4.38/4.76	4.82/8.74	4.82/8.46

Maneuver Operation

Start Time	Target Name	#	(α, δ)	(ϕ, θ, ψ)
09/03 13:30	ANTI 5KPC ARM22	5	(246.7966 , −48.9528)	(249.2094 , 138.1836 , 172.7863)
09/03 15:14	ANTI 5KPC ARM23	6	(246.7966 , −48.9528)	(248.9489 , 137.6216 , 172.5306)
09/03 16:54	ANTI 5KPC ARM24	1	(246.7966 , −48.9528)	(248.6893 , 137.0513 , 172.2697)
09/03 18:34	ANTI 5KPC ARM25	2	(246.7966 , −48.9528)	(249.8107 , 137.7373 , 173.0828)
09/03 19:07	ANTI 5KPC ARM26	3	(246.7966 , −48.9528)	(249.5438 , 137.1757 , 172.7993)
09/03 19:47	ANTI 5KPC ARM27	4	(246.7966 , −48.9528)	(249.2817 , 136.6086 , 172.5353)
09/03 20:40	ESO 103–G35	5	(279.5842 , −65.4281)	(279.9639 , 155.2903 , 201.2401)
09/04 20:40	TAU SCO	6	(248.9709 , −28.2158)	(249.2024 , 118.1859 , 168.7820)

Comment: 本日の運用:
Total 27 pointings of anti-5kpc arm region has been completed today. The SIS count rate in the position 21 is 0.4 cps from a collection of 4CCD. We can see extended emission (0.35cps/S2) and a point source (0.1cps/S2) in the GIS field of view. The point source is located very close to the Cal. source in S3. The spectra of both sources are heavily absorbed.
昨日あたりから SIS TECT 温度が -41° くらいに下がってきています。それから金田君が発見したんですが、ACS-2 画面の右下に H–AD B1 ERR が常時見えてますが、これはこのままでいいのでしょうか？ 1993/7/27 からこの ERR は起こってますが ECC-C の値がどんどん積分されて現在 150 になっています。reset しなくてもいいのでしょうか。5pass 目は elevation が低く 20 秒程度データが欠損しました（岩澤）。
コマンドプランがなかなか送られてこなかったので、卓球に燃えた。（金田）