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62-1-4
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267 496

VOLUME 2B

DASA 1300

High Altitude Sampling Program

CATALOGED BY ASIHA
AS AD NO

RESULTS OF FILTER

ANALYSES

(CROSS SECTIONS ONLY)

AS 11A
DEC 1 1961
11-128

ISOTOPE, INC.

Defense Atomic Support Agency

WASHINGTON 25, D.C.

DASA 1300

THE HIGH ALTITUDE SAMPLING PROGRAM

by

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VOLUME 2B

RESULTS OF FILTER ANALYSES
(Table 4.3 and Flight Cross-Sections Only)

The Final Report on Contract DA-29-044-XZ-609

Prepared for

Defense Atomic Support Agency
Defense Research Agency
Washington 25, D. C.
Washington 25, D. C. 20540
August 1961

ISOTOPES, INCORPORATED
123 Woodland Avenue
Westwood, New Jersey

4.2 Radiochemical Data From Routine Analyses	100
(Missions Flown During 1957	100 - 126)
(Missions Flown During 1958	128 - 270)
(Missions Flown During 1959	272 - 518)
(Missions Flown During 1960	520 - 626)

Table 4.3. Radiochemical Data From Routine Analyses

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		
				Total Beta	Sr ⁹⁰	β T 1/2
22 August 1957 Mission 1						
---	3	31°N	46	2,700	9 + 1	40
LO	4	31°N	56	22,000	53 + 2	63
	5	31°N	62.5	26,000	126 + 3	75
	6	31°N	67.2	33,000	172 + 3	21

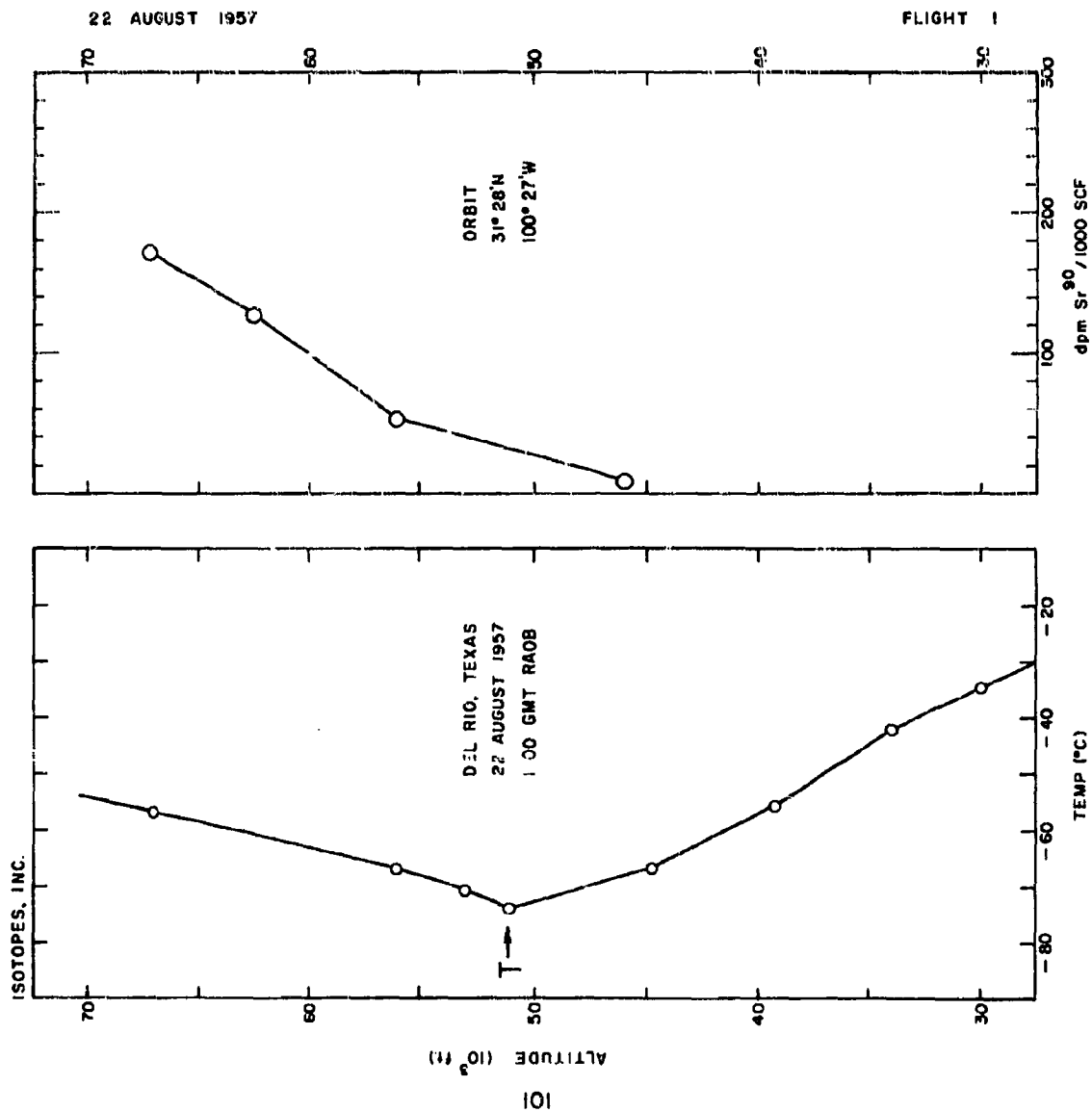


FIGURE 4.1 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		β T 1/2
				Total Beta	Sr ⁹⁰	
29 August 1957 Mission 2						
---	7	31°N	56	19,100	65 ± 2	22
LE	8	31°N	56	17,100	62 ± 2	71
	9	31°N	56	16,100	43 ± 2	62
	10	31°N	56	18,500	62 ± 3	53

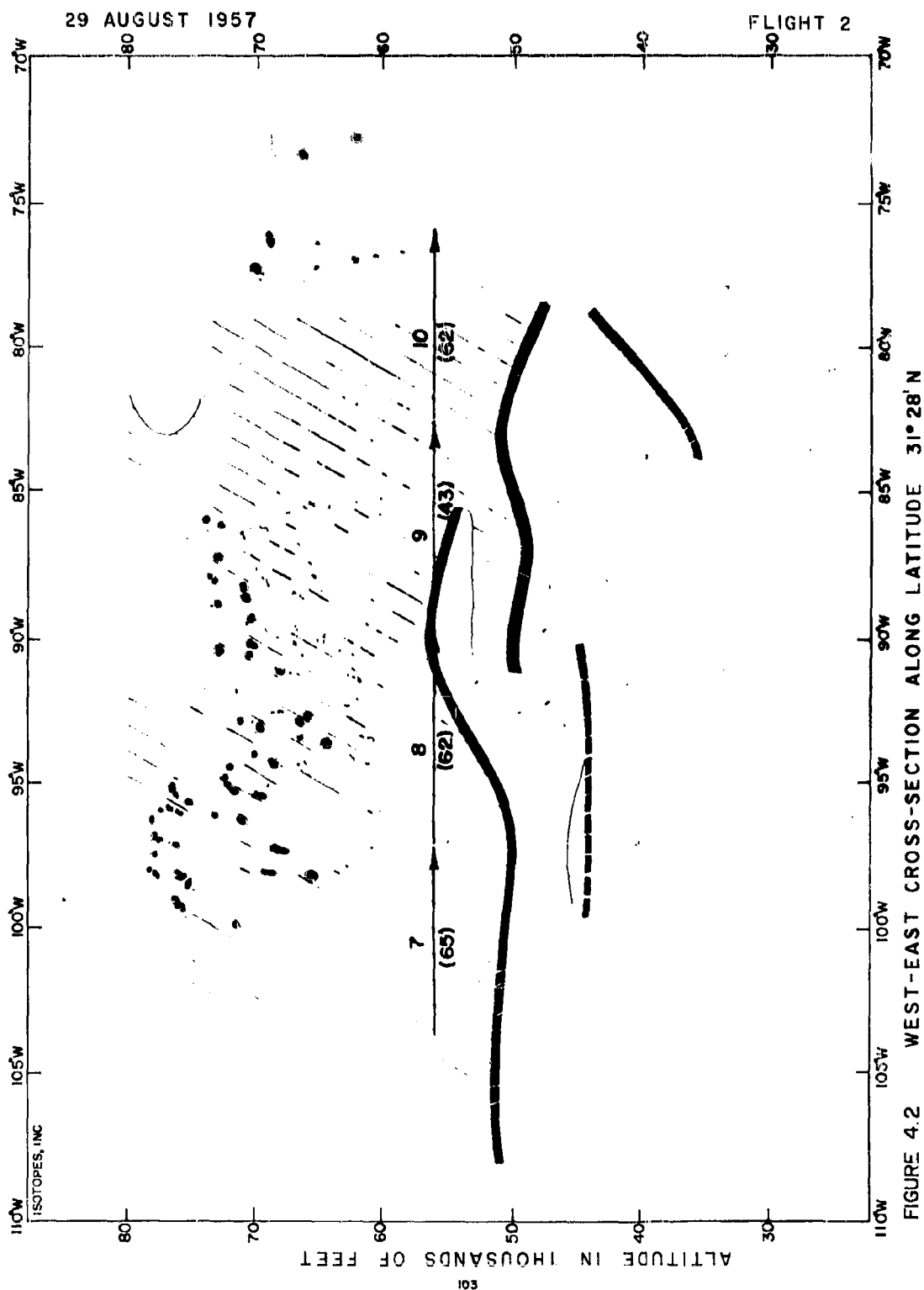


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		$\beta T 1/2$
				Total Beta	Sr 90	
17 September 1957 Mission 3						
---	11	32°N	56	51,000	87 + 5	25
LN	12	39°N	56	21,000	95 + 5	50
	13	45°N	56	25,000	108 + 5	45
	14	51°N	56	90,000	181 + 8	22

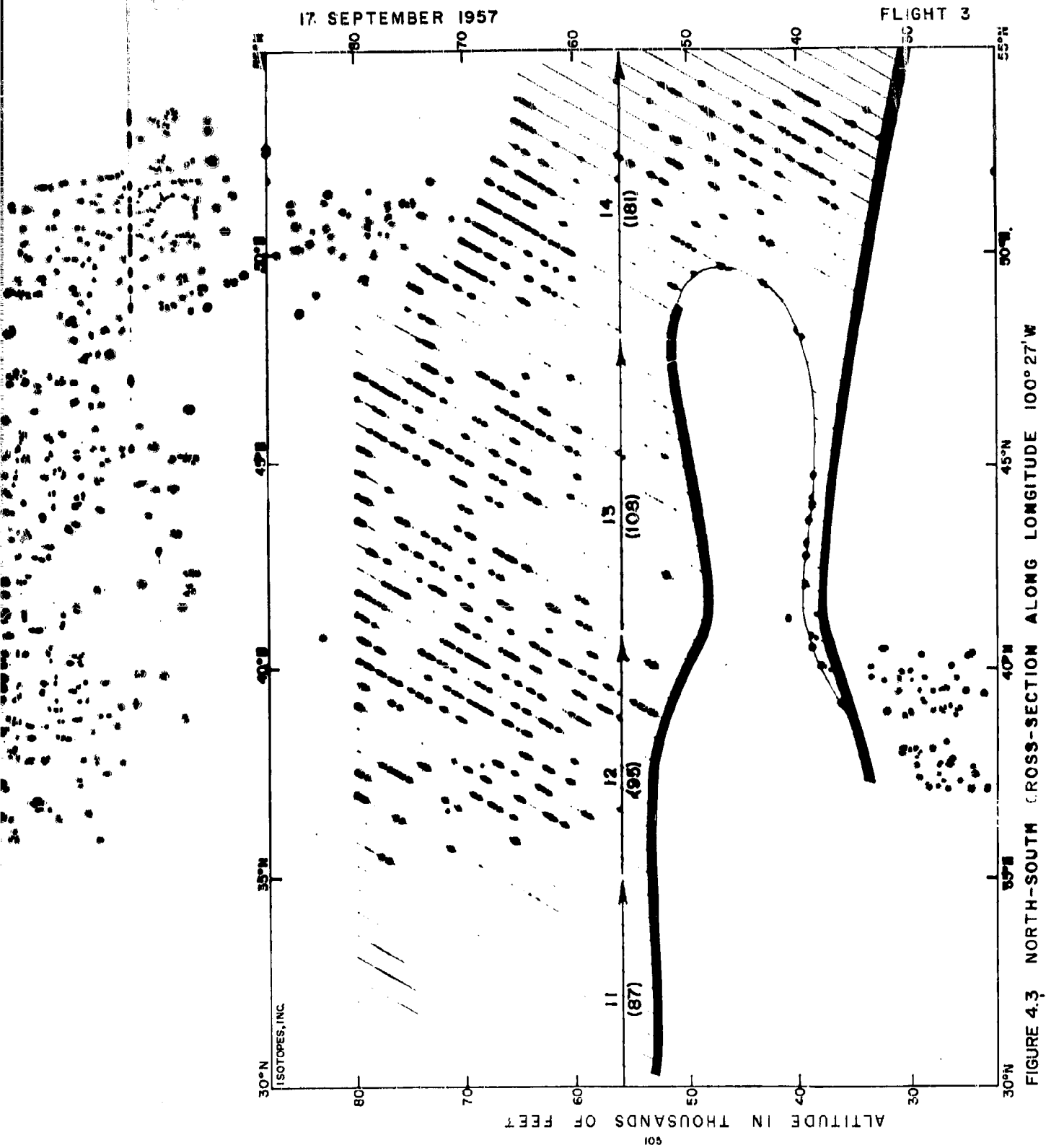


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		$\beta T^{1/2}$
				Total Beta	Sr 90	
4 October 1957 Mission 5						
---	15	31°N	46	840	7 + 1	---
LO	16	31°N	56	67,000	103 + 6	31
	17	31°N	62	28,000	165 + 6	62
	18	31°N	66.5	56,000	192 + 6	22

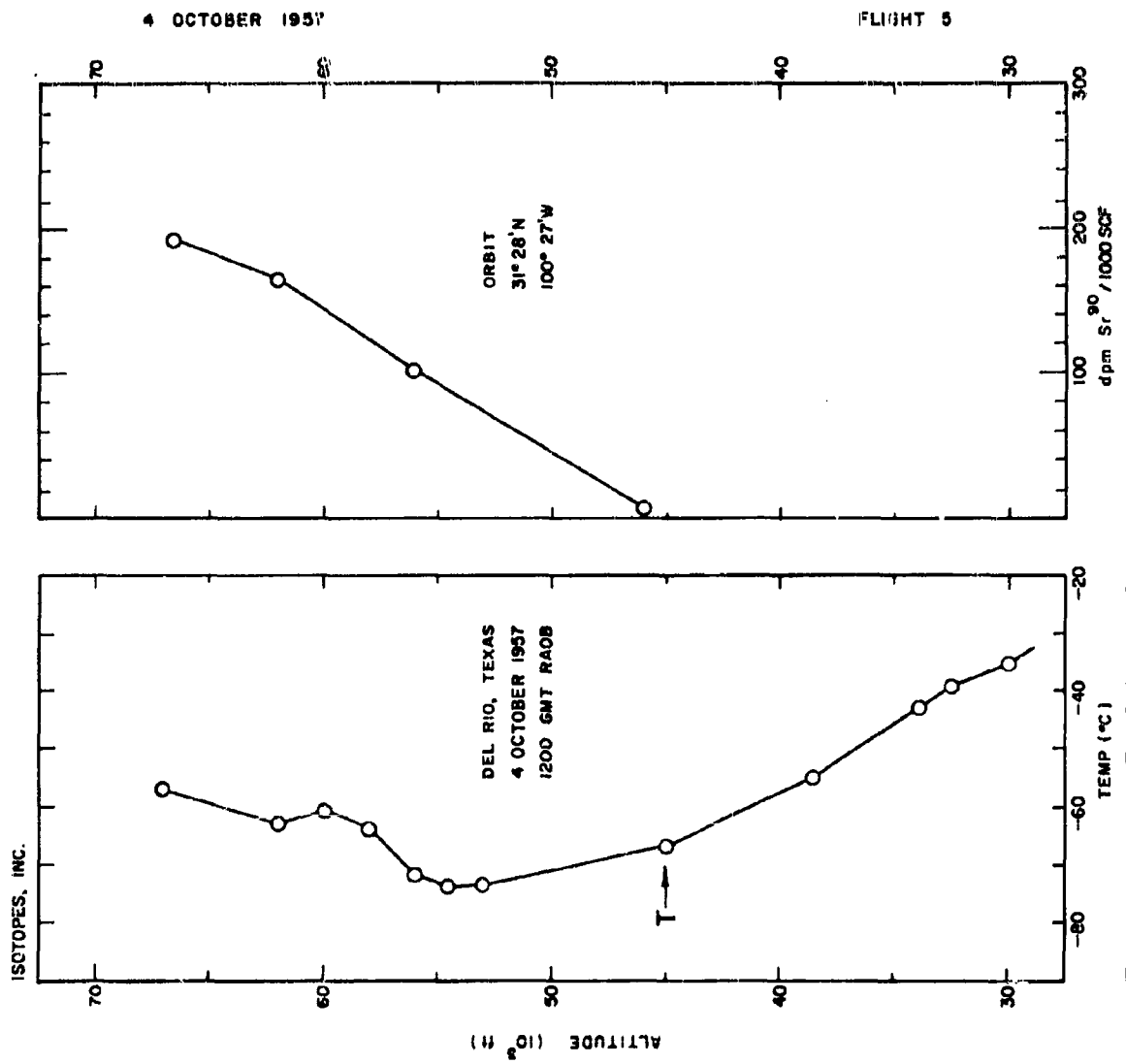


FIGURE 4.4 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		β T 1/2
				Total Beta	Sr ⁹⁰	
<u>16 October 1957 Mission 4</u>						
---	19	32°N	56.2	33,000	80 + 5	43
LS	20	25°N	56	45,000	98 + 6	35
	21	18°N	56	22,000	53 + 5	39
	22	16°N	56	12,400	45 + 5	47

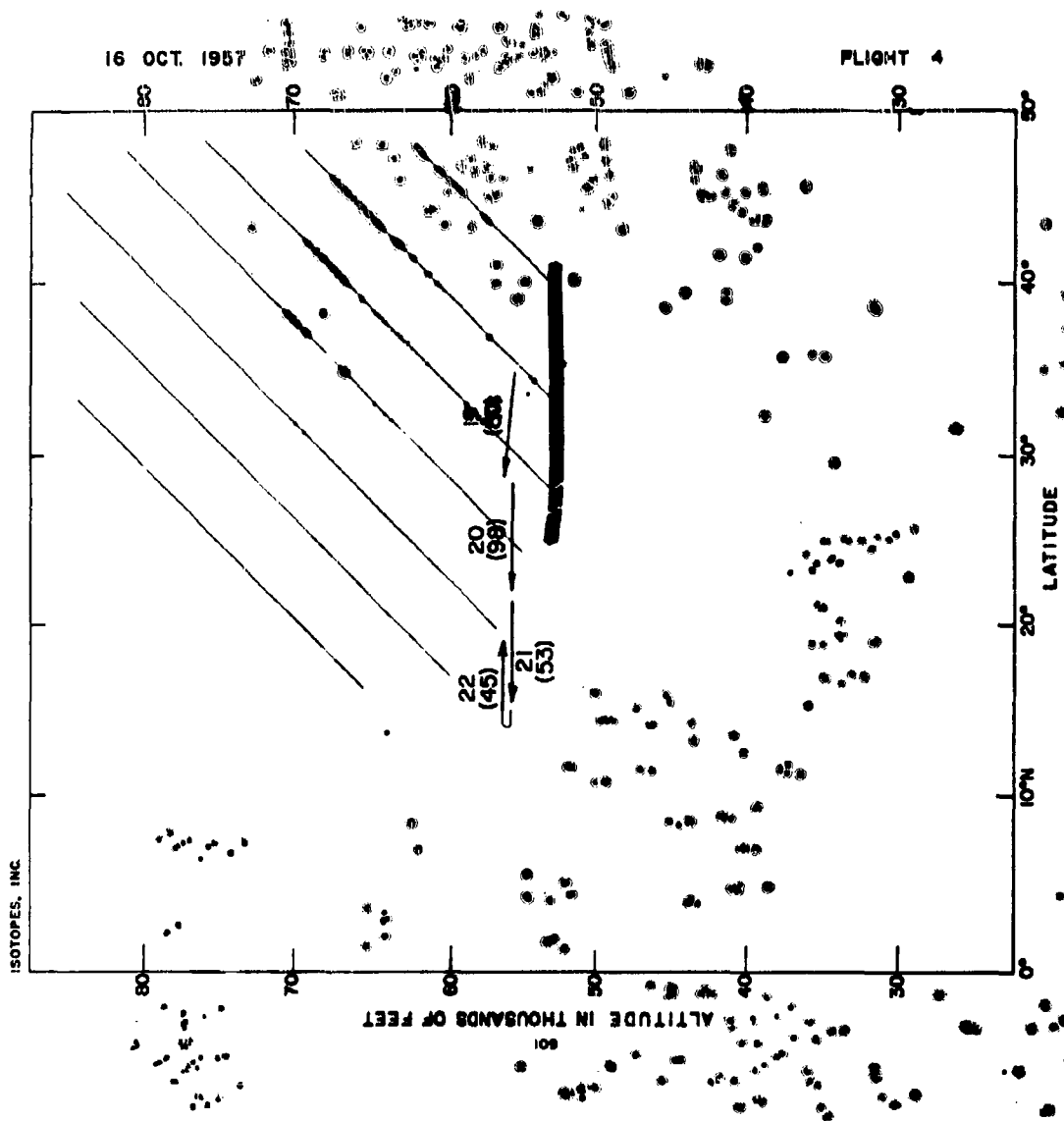


FIGURE 4.5 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	BT 1/2
				Total Beta	Sr ⁹⁰		
5 November 1957 Mission 13-A							
717	23	47°N	62.5	2,500,000	824 + 21	57	20
PN	24	52°N	63.3	240,000	211 ± 7	---	21
	25	59°N	64	13,300	123 ± 1	---	>100
	26	53°N	64.8	11,200	89 ± 1	---	>100
	27	41°N	64.6	200,000	234 + 12	---	20
PS	28	36°N	65	147,000	235 ± 13	---	20
	29	30°N	65	640,000	215 ± 4	---	22
	30	25°N	64.8	193,000	163 ± 4	---	24
	35	20°N	64.6	38,000	144 + 3	---	46
---	31	13°N	64.4	38,000	205 + 10	---	89
RS	32	7°N	64.5	43,000	227 ± 10	---	78

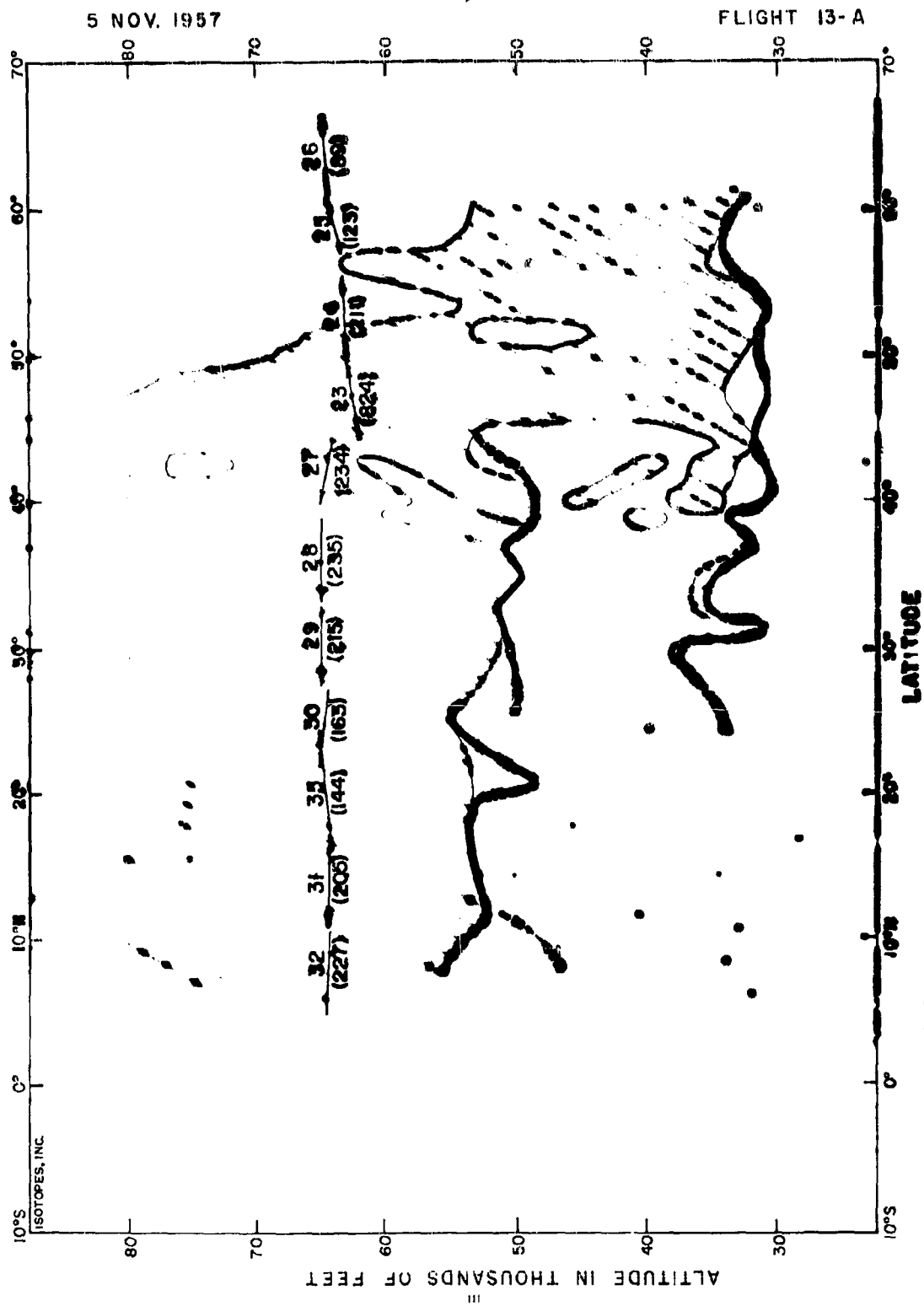


FIGURE 4.6 FLIGHT CROSS SECTION



Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		BT 1/2
				Total	S _p 90	
8 November 1957 Mission 13-B						
717 PN	36	47°N		55,000	127 ± 2	37
	37	52°N	56	104,000	173 ± 1	29
	38	58°N	56	53,000	166 ± 5	35
	39	63°N	56	44,000	169 ± 1	39
--- RN	40	19°N	65	47,000	290 ± 12	45
	41	25°N	65.3	64,000	160 ± 4	28
	42	30°N	65.4	66,000	157 ± 2	25
	43	36°N	65.5	390,000	293 ± 11	24
--- RS	44	13°N	65	34,000	153 ± 7	80
	45	8°N	65	38,000	246 ± 15	> 100
	46	2°N	65	47,000	257 ± 14	82
	47	4°S	65	43,000	90 ± 3	59

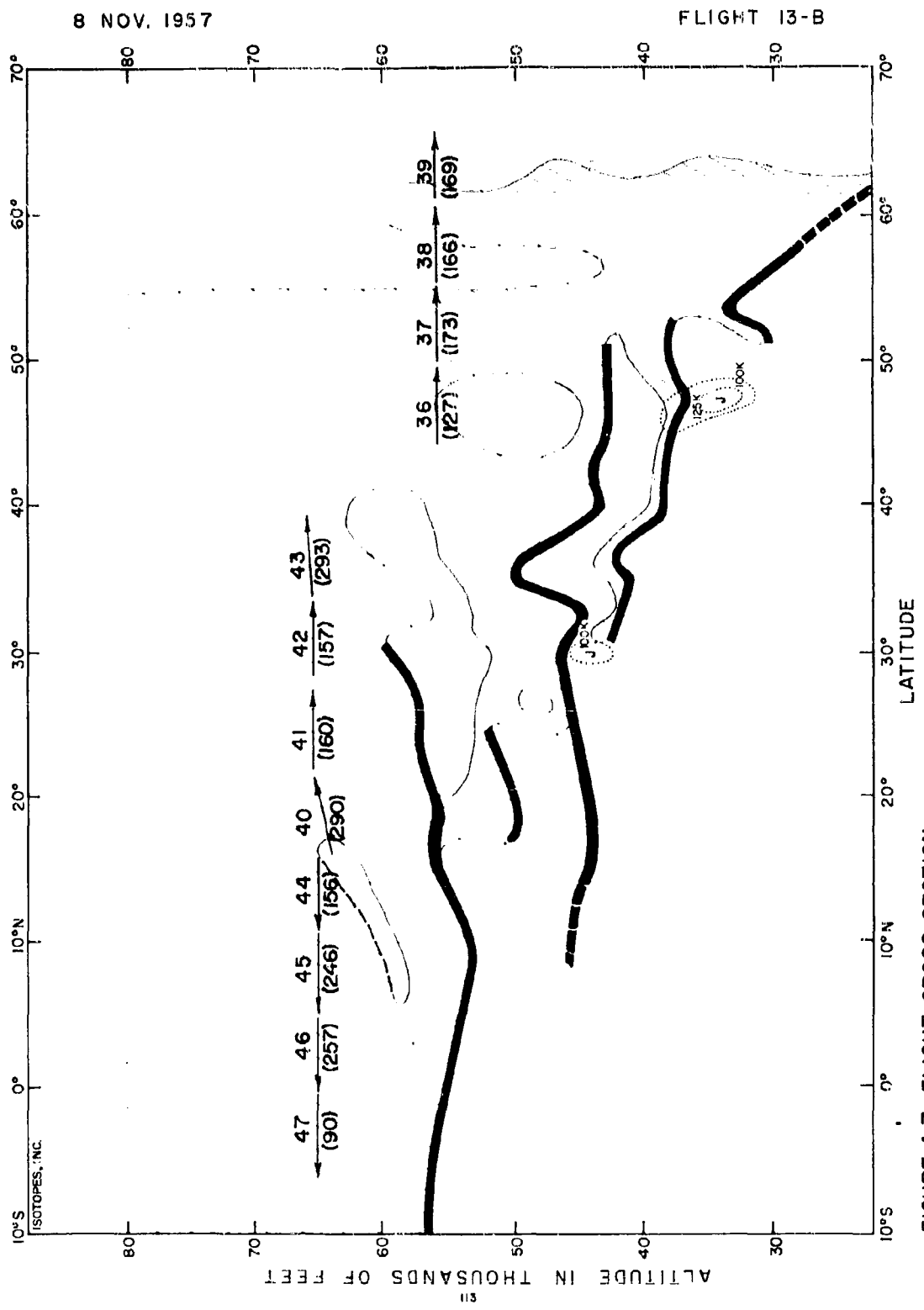


FIGURE 4.7 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		
				Total Beta	Sr 90	β T 1/2
12 November 1957 Mission 14						
716 PN	48	47°N	53	45,000	111 + 3	46
	49	52°N	53	35,000	169 $\pm$ 8	63
	50	58°N	53	220,000	155 $\pm$ 4	31
	51	64°N	53	230,000	208 $\pm$ 7	30
718 PS	52	41°N	64.5	13,500	100 + 3	58
	53	36°N	65.5	18,000	115 $\pm$ 1	34
	54	30°N	66.3	26,000	208 $\pm$ 13	51
	55	24°N	67.3	590,000	341 $\pm$ 14	24
--- RN	56	19°N	63.3	410,000	327 + 8	29
	57	25°N	64.2	260,000	298 $\pm$ 12	30
	58	31°N	65	105,000	207 $\pm$ 12	30
	59	37°N	65	11,200	121 $\pm$ 8	>100
--- RS	60	13°N	66.4	101,000	204 + 10	37
	61	7°N	66.6	36,000	225 $\pm$ 14	75
	62	2°N	67	86,000	221 $\pm$ 10	91

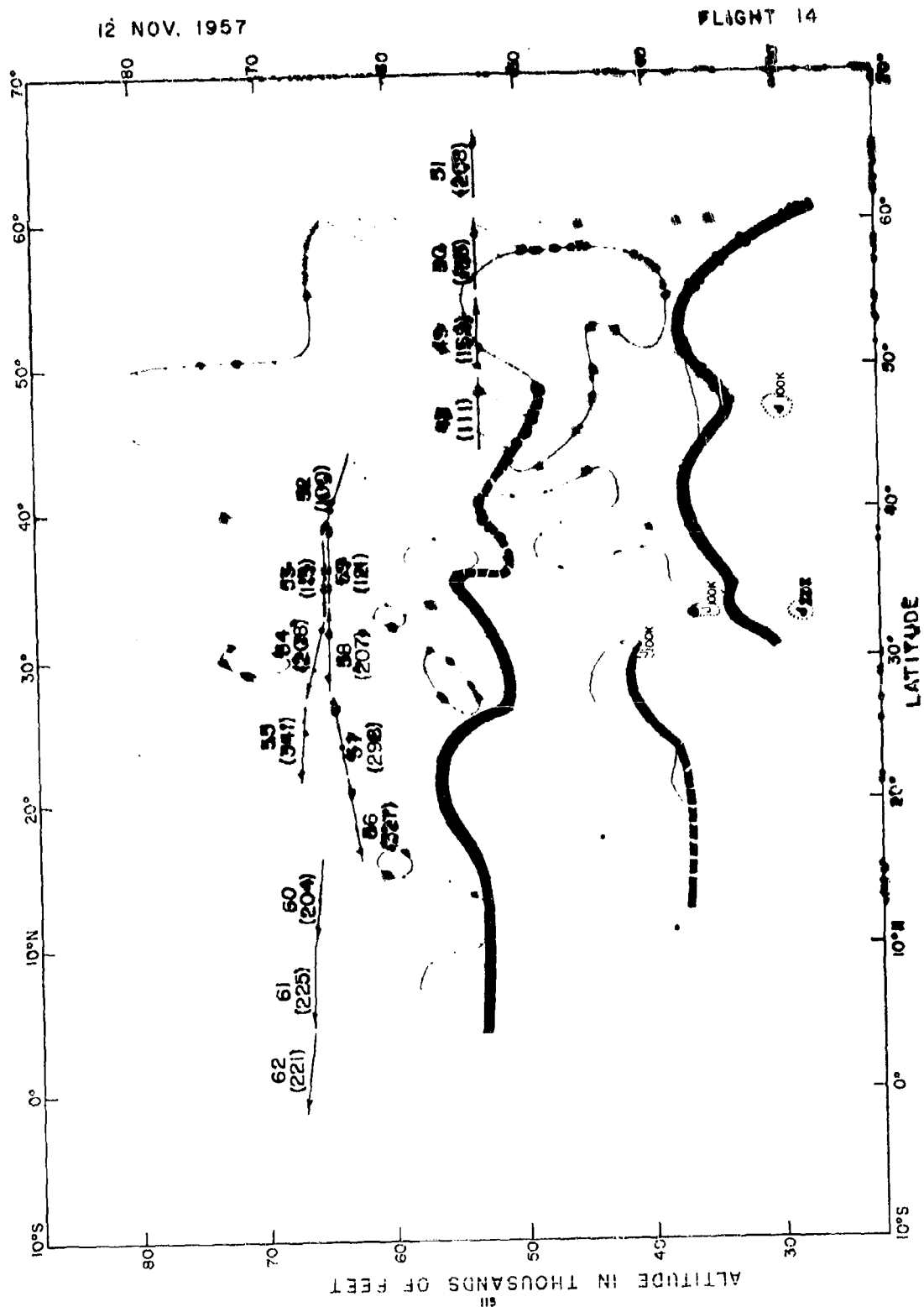


FIGURE 4.8 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		BT 1/2
				Total Beta	Sr 90	
20 November 1957 Mission 15						
718 PS	68	24°N	67.3	32,000	138 ± 3	44
	69	30°N	68.5	14,900	115 ± 5	> 100
	70	36°N	69.1	16,300	127 ± 11	73
	71	42°N	69.7	10,900	129 ± 1	> 100
--- RN	72	37°N	67.9	12,500	141 ± 3	95
	73	31°N	67.9	13,100	106 ± 1	> 100
	74	25°N	68.4	24,000	141 ± 2	51
	75	19°N	68.6	18,100	176 ± 2	58
--- RS	76	40°S	66.1	49,000	317 ± 22	86
	77	20°N	67.6	51,000	406 ± 24	42
	78	7°N	67.9	25,000	374 ± 26	> 100
	79	13°N	68.1	22,000	292 ± 18	> 100

20 NOV. 1957

FLIGHT 15

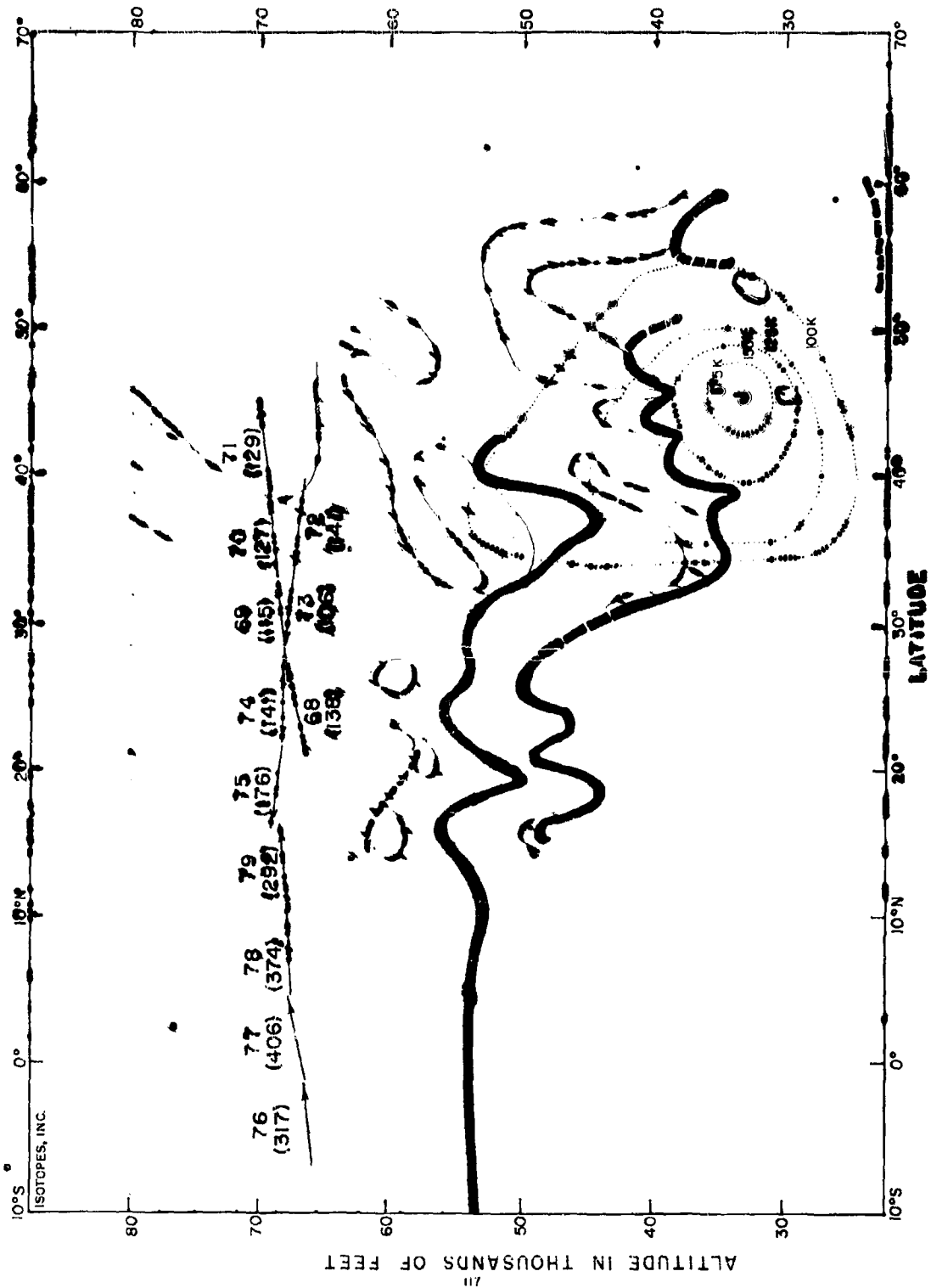


FIGURE 4.9 FLIGHT CROSS SECTION

Table 3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		β T 1/2
				Total	Sr 90	
22 November 1957 Mission 16						
717	84	47°N	47	90,000	137 ± 5	38
PN	85	52°N	47	230,000	258 ± 8	37
	86	58°N	47	31,000	89 ± 4	50
	87	64°N	47	40,000	64 ± 6	56
716	83	41°N	61.8	230,000	231 ± 8	33
PS	82	36°N	62	210,000	252 ± 8	37
	81	30°N	62	270,000	256 ± 2	41
	80	24°N	62	200,000	258 ± 5	40
---	92	19°N	62.8	162,000	264 ± 14	34
RN	93	25°N	62.8	159,000	225 ± 13	36
	94	30°N	62.8	230,000	284 ± 9	38
	95	36°N	62.7	126,000	238 ± 8	39
---	88	13°N	62	280,000	307 ± 14	33
RS	89	7°N	63.5	4,600,000	982 ± 28	18
	90	2°N	64	11,700,000	2333 ± 30	17
	91	4°S	62	5,000,000	977 ± 18	15

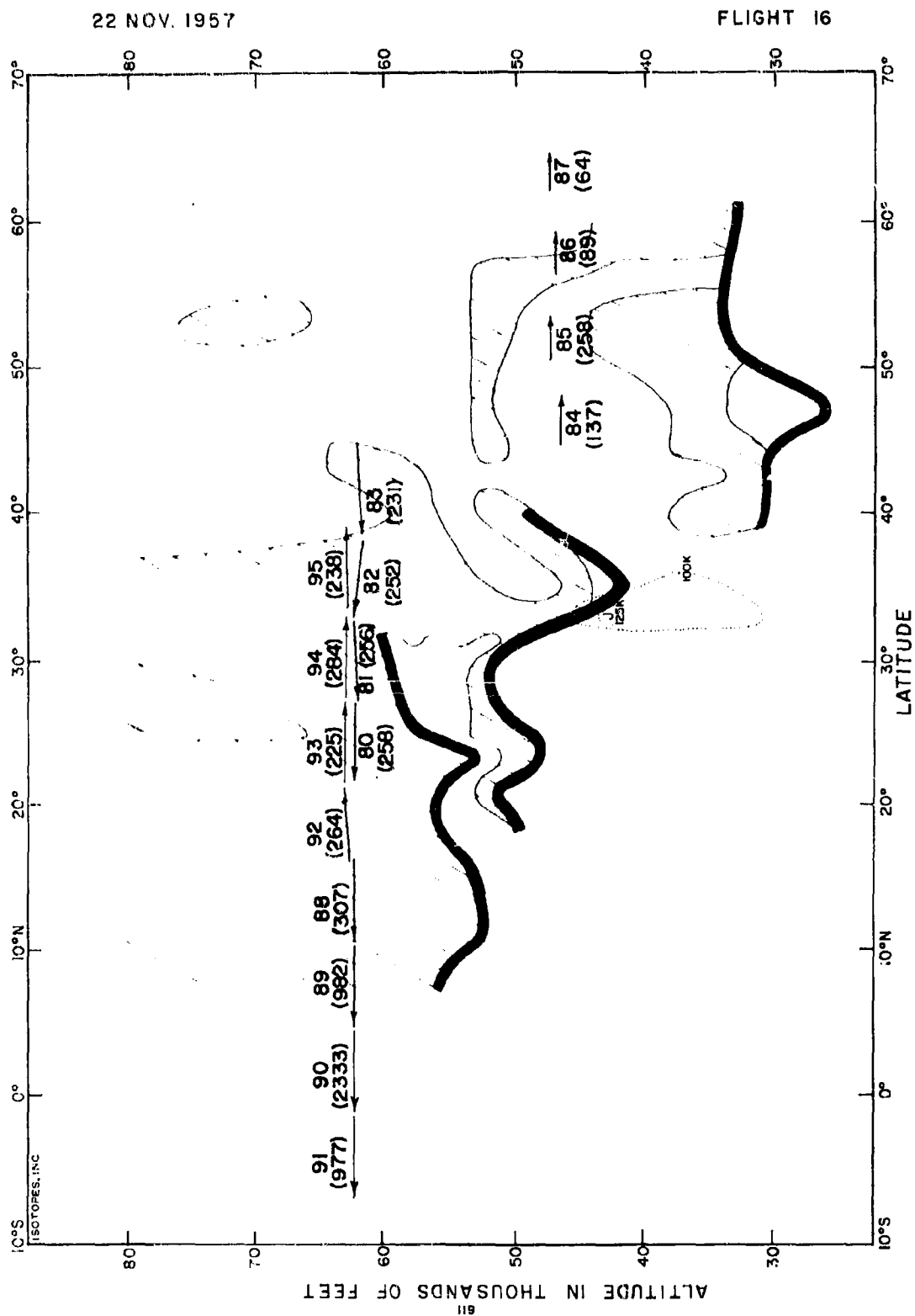


FIGURE 4.10 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		$\beta T 1/2$
				Total Beta	Sr 90	
26 November 1957 Mission 17						
718 PN	96	47°N	44	73,000	79 + 1	43
	97	52°N	44	198,000	198 ± 2	41
	98	58°N	44	153,000	207 ± 4	43
	99	63°N	44	172,000	215 ± 1	41
716 PS	100	41°N	59	147,000	172 + 6	36
	101	36°N	59	180,000	260 ± 6	38
	102	30°N	59	156,000	132 ± 3	21
	103	24°N	59	136,000	46 ± 3	19
--- RN	104	27°N	59.1	105,000	80 + 1	29
	105	27°N	59.2	168,000	81 ± 1	21
--- RS	106	13°N	59	113,000	60 + 1	28
	107	7°N	58.9	73,000	86 ± 3	37
	108	1°N	58.7	101,000	81 ± 3	26

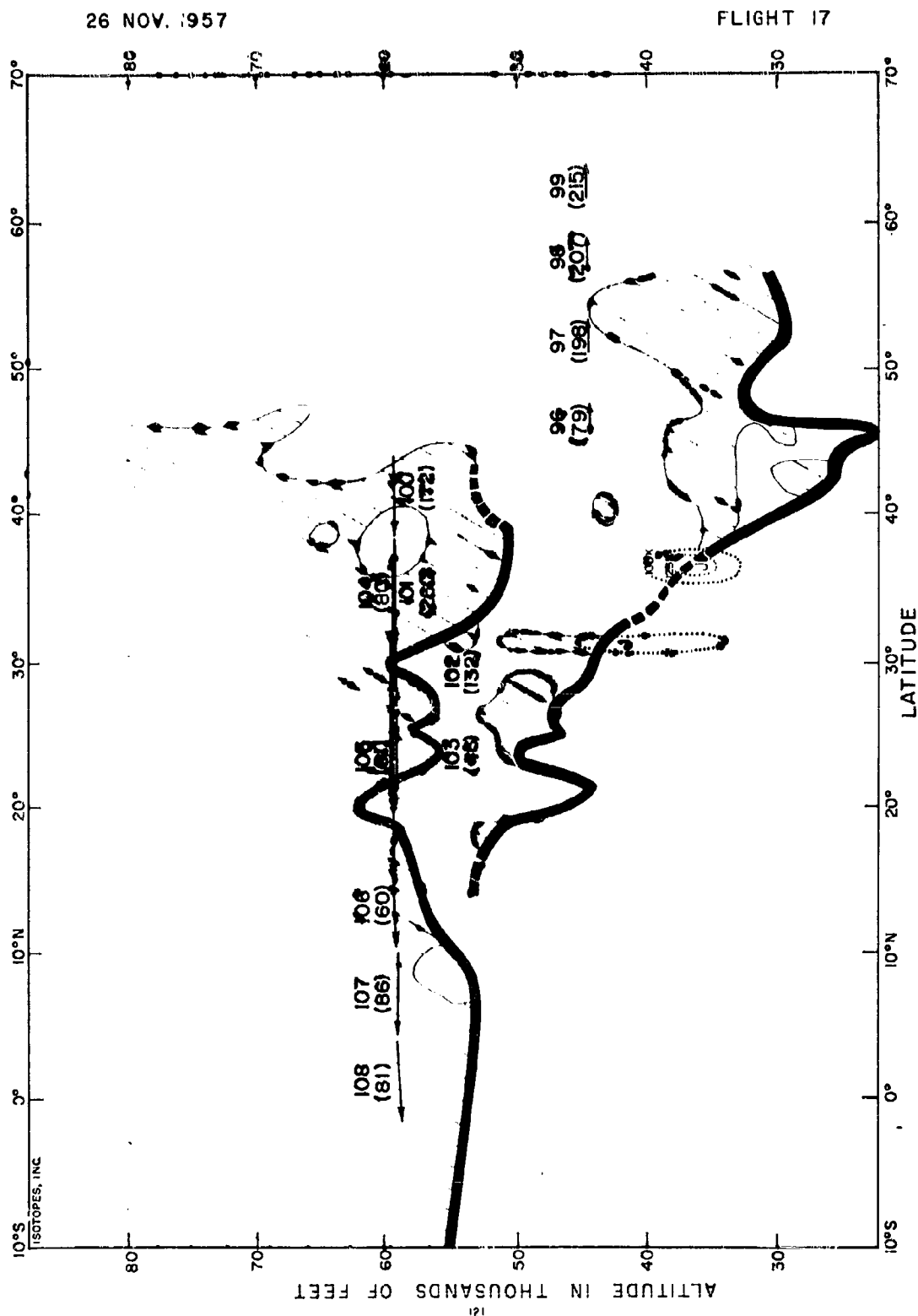


FIGURE 4.11 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		θ T 1/2
				Total Beta	S_{τ}^{90}	
3 December 1957 Mission 18-A						
717	110	47°N	59	115,000	211 + 10	38
PN	111	53°N	59	89,000	167 ± 9	41
	112	58°N	59	142,000	164 ± 5	36
	113	64°N	59	240,000	241 ± 22	39
---	117	19°N	56.3	12,400	20 + 1	54
RN	118	25°N	55.5	23,000	28 ± 1	33
	119	30°N	55.5	17,800	31 ± 1	50
	120	36°N	55	19,100	36 ± 1	38
---/RS	114	13°N	57	13,300	18 + 1	34

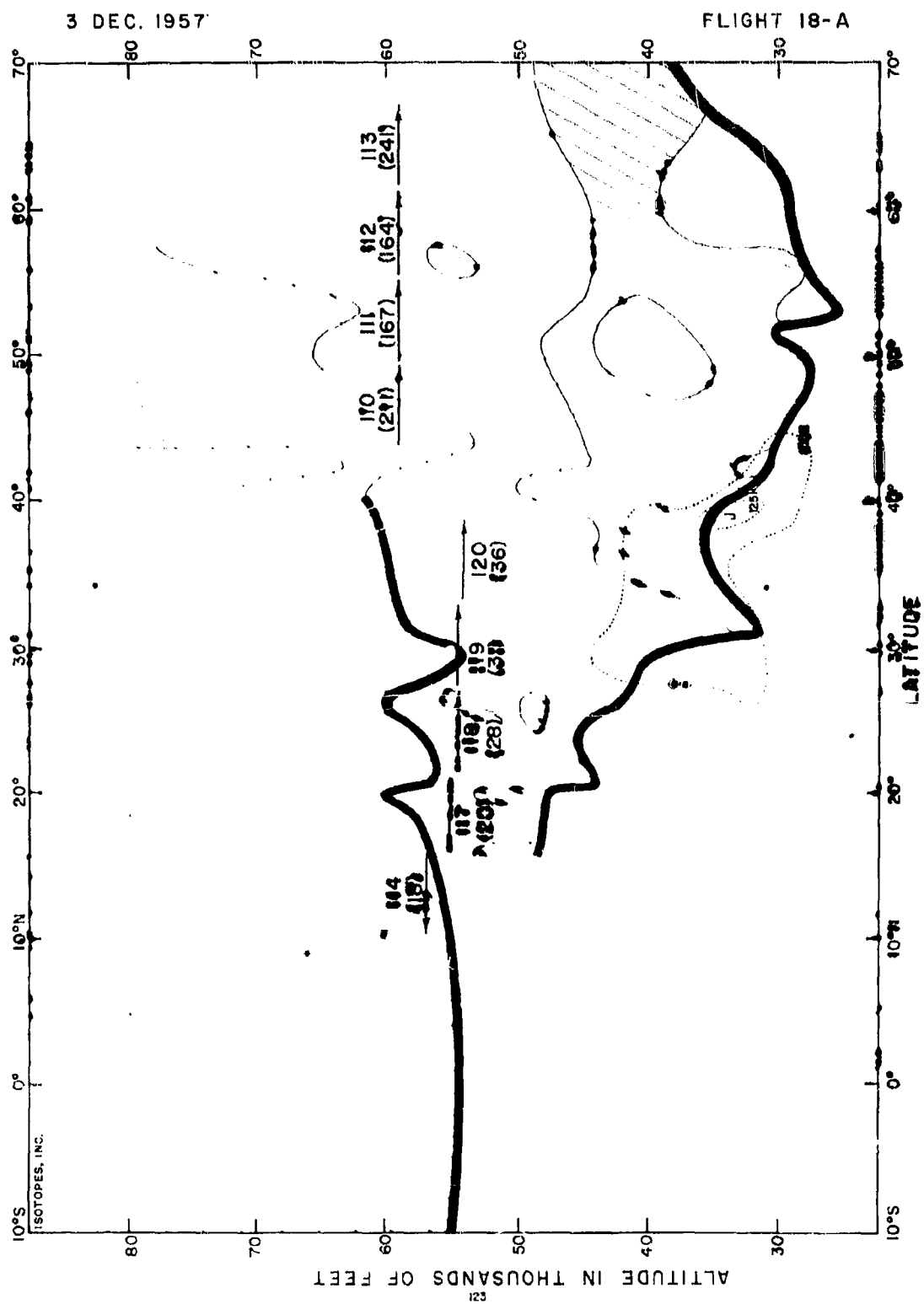


FIGURE 4.12 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		β T 1/2
				Total Beta	Sr ⁹⁰	
14 December 1957 Mission 18-B						
716 PN	125	47°N	59	117,000	168 + 5	50
	126	52°N	59	155,000	258 ± 6	45
	127	58°N	59	152,000	184 ± 5	45
	128	63°N	59	79,000	191 ± 4	58
718 PS	121	41°N	56	169,000	200 + 5	47
	122	36°N	56	116,000	160 ± 5	48
	123	30°N	56	45,000	64 ± 2	25
	124	24°N	56	16,600	30 ± 1	55
--- RN	137	19°N	55.8	20,000	36 + 2	45
	138	24°N	55.8	28,000	50 ± 2	43
	139	30°N	55.9	48,000	87 ± 2	47
	140	36°N	55.9	97,000	165 ± 4	51
--- RS	142	13°N	55.4	8,800	16 + 2	49
	143	8°N	55.6	5,200	10 ± 1	27
	144	1°S	56	870	1.5 ± 0.2	~90

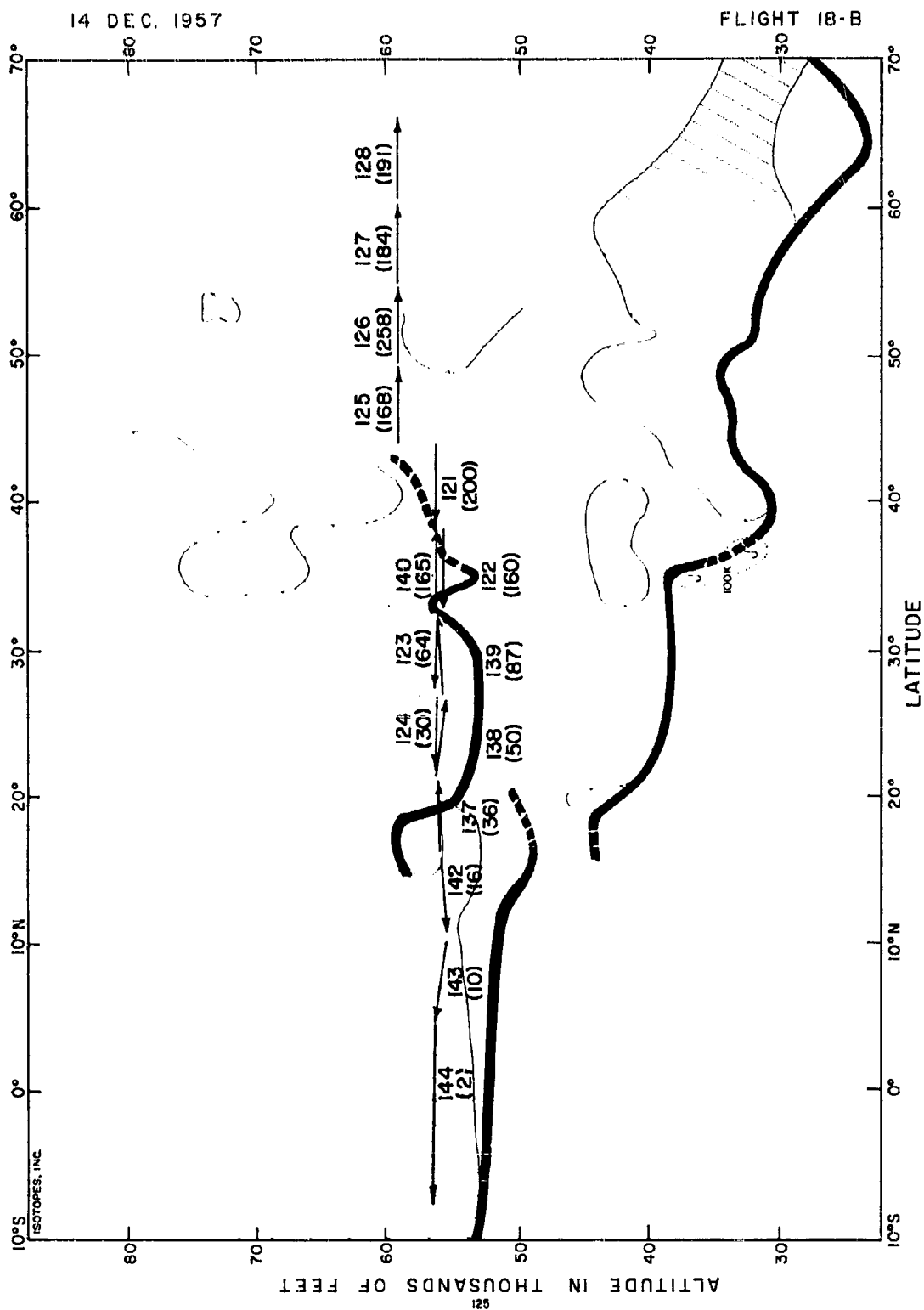


FIGURE 4.13 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		
				Total Beta	Sr 90	$\beta T 1/2$
17 December 1957 Mission 19-A						
717/PN	129	47°N	56	167,000	265 ± 5	40
718 PS	133	41°N	53	95,000	137 ± 4	47
	134	36°N	53	78,100	102 ± 3	51
	135	30°N	53	120,000	155 ± 6	49
	136	25°N	53	66,000	103 ± 5	52
---	145	19°N	52.8	6,800	4 ± 1	43
RN	146	25°N	52.7	37,000	68 ± 4	61
	147	30°N	53.1	83,000	122 ± 10	58
	148	25°N	67.3	52,000	202 ± 2	70

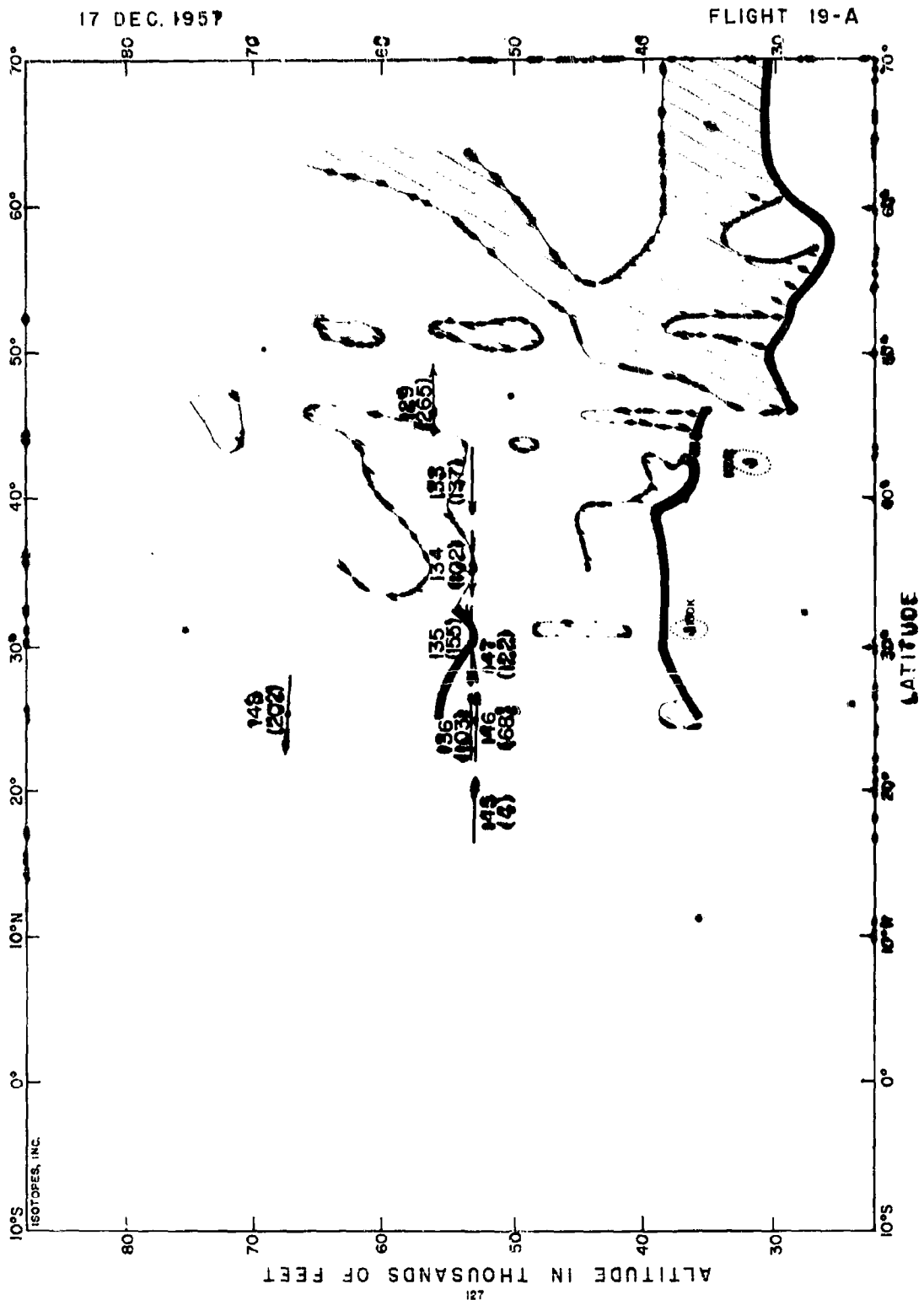


FIGURE 4.14 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		$\beta T 1/2$
				Total Beta	Sr ⁹⁰	
10 January 1958 Mission 19-B						
717 PN	149	47°N	50	85,000	182 + 3	> 90
	150	52°N	56	98,000	230 ± 6	> 90
716 PS	151	41°N	53	73,000	141 + 4	> 90
	152	36°N	53	70,000	165 ± 5	> 90
	153	30°N	53	58,000	114 ± 3	~ 90
	154	27°N	53	35,000	64 ± 3	> 90
--- RN	155	19°N	50	4,600	< 8	> 90
	156	25°N	50	8,900	37 ± 1	> 90
--- RS	157	13°N	53	1,670	4 + 1	> 90
	158	8°N	53	210	1.0 ± 0.1	---
	159	2°N	53	< 210	1.0 ± 0.1	---
	160	4°S	52.5	10,800	11 ± 1	> 90

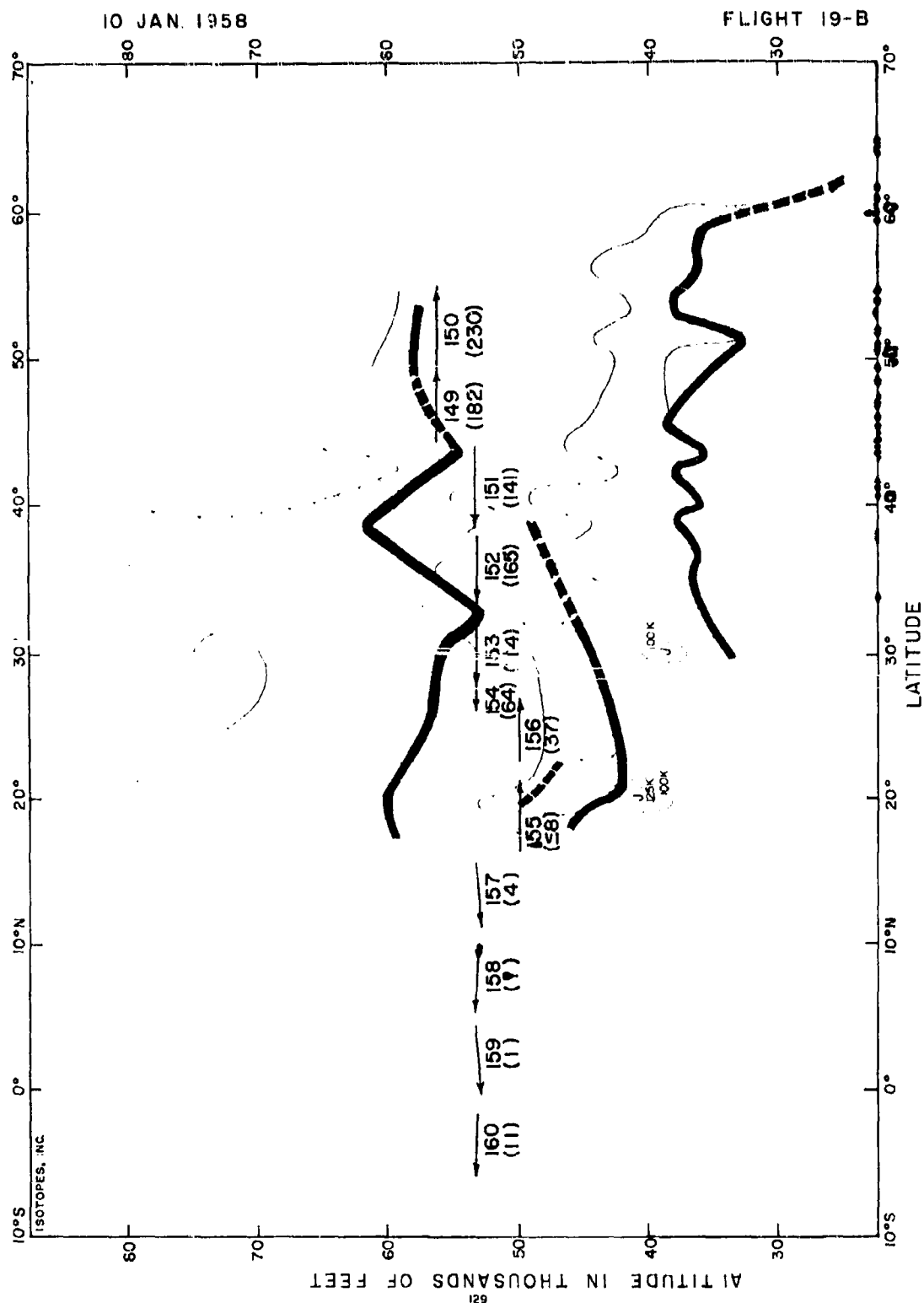


FIGURE 4.15 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		
				Total Beta	Sr 90	$\beta T^{1/2}$
<u>14 January 1958 Test Hop 717</u>						
717	161	43°N	50	68,000	81 + 2	~90
PO	162	43°N	55	64,000	149 + 6	32
	163	43°N	60	105,000	253 + 7	~90
	164	43°N	65	210,000	315 + 9	~60

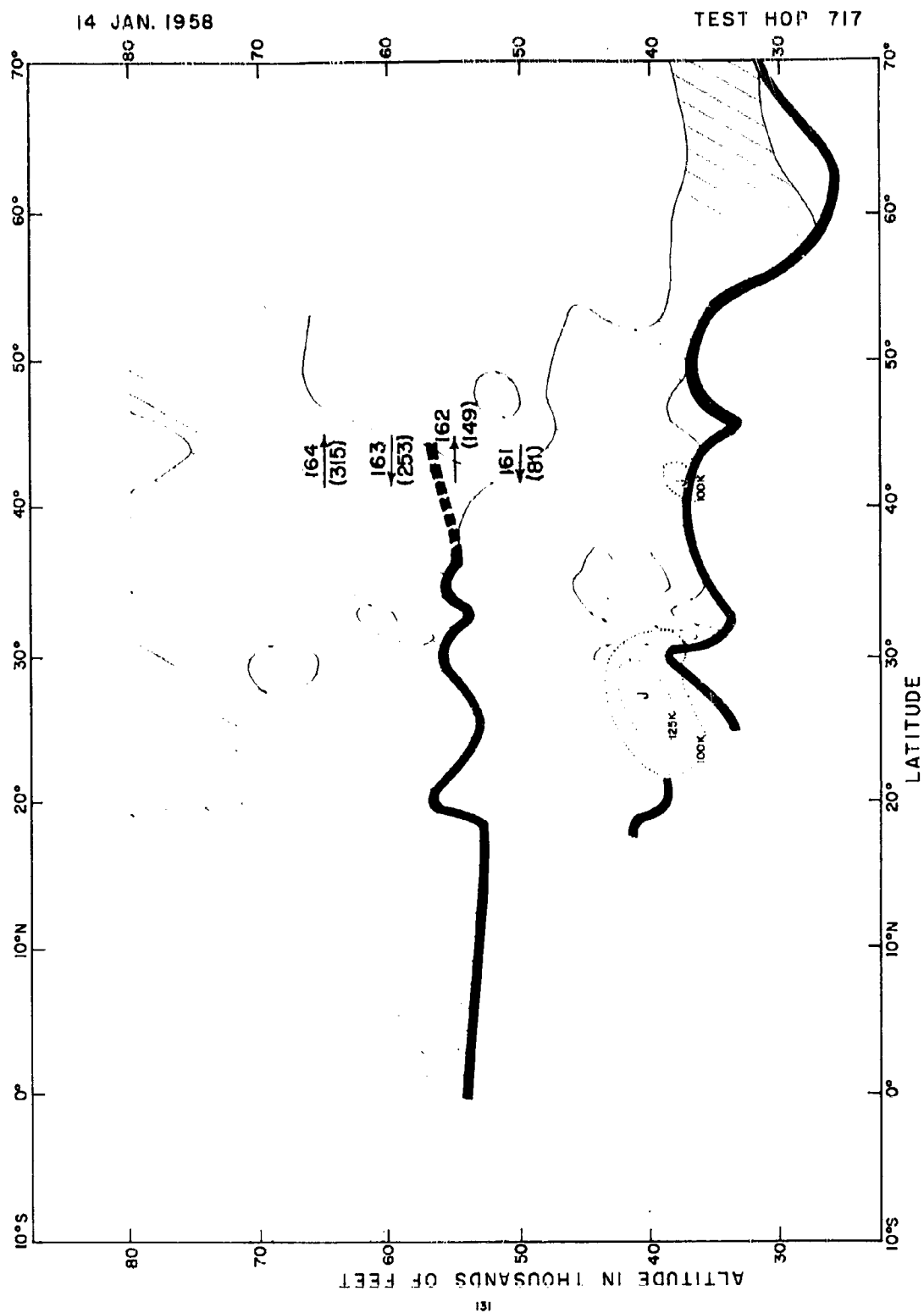


FIGURE 4.16 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		β T 1/2
				Total Beta	Sr ⁹⁰	
21 January 1958 Mission 20						
716 PN	169	47°N	53	73,000	187 + 5	~90
	170	52°N	53	70,000	170 ± 5	> 0
	171	58°N	53	86,000	224 ± 4	~90
	172	63°N	53	71,000	162 ± 5	60
718 PS	165	41°N	49.6	49,000	96 + 3	~60
	166	36°N	49.6	4,200	≤ 7	>90
	167	30°N	50	3,100	6 + 1	>90
	168	25°N	50	990	≤ 2	long
--- RS	173	13°N	51	1,220	1.3 + 0.1	long
	174	8°N	50.5	480	1.3 ± 0.1	long
	175	3°N	50.3	<350	1.1 ± 0.1	long
	176	4°S	50	≤240	1.1 ± 0.1	long

21 JAN. 1958

FLIGHT 20

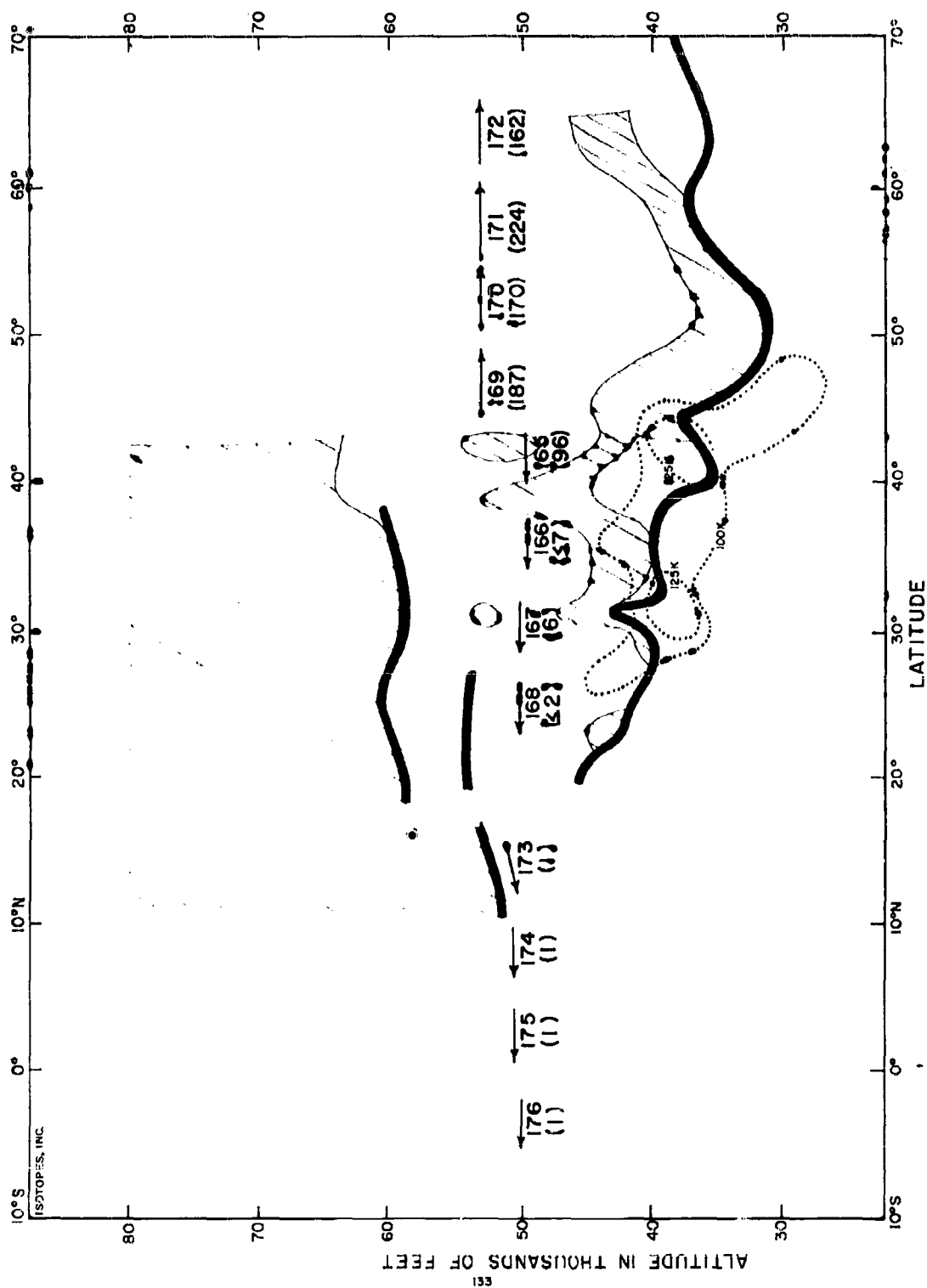


FIGURE 4.17 ' FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		$\beta T 1/2$
				Total Beta	Sr 90	
24 January 1958 Mission 21						
717 PN	177	47°N	50	80,000	166 + 5	65
	178	52°N	50	67,000	144 ± 4	~ 90
	179	58°N	50	115,000	251 ± 27	61
	180	63°N	50	200,000	371 ± 33	59
718 PS	181	41°N	47	98,000	204 + 6	65
	182	36°N	47	4,800	14 ± 1	> 90
	183	29°N	47	660	10 ± 1	---
	184	27°N	47	430	5 ± 1	---
--- RS	185	13°N	48.3	1,880	≤ 2.7	---
	186	8°N	47.6	≤ 270	2 + 1	---
	187	2°N	47	490	0.7 ± 0.1	---
	188	4°S	47.3	128	0.7 ± 0.1	---

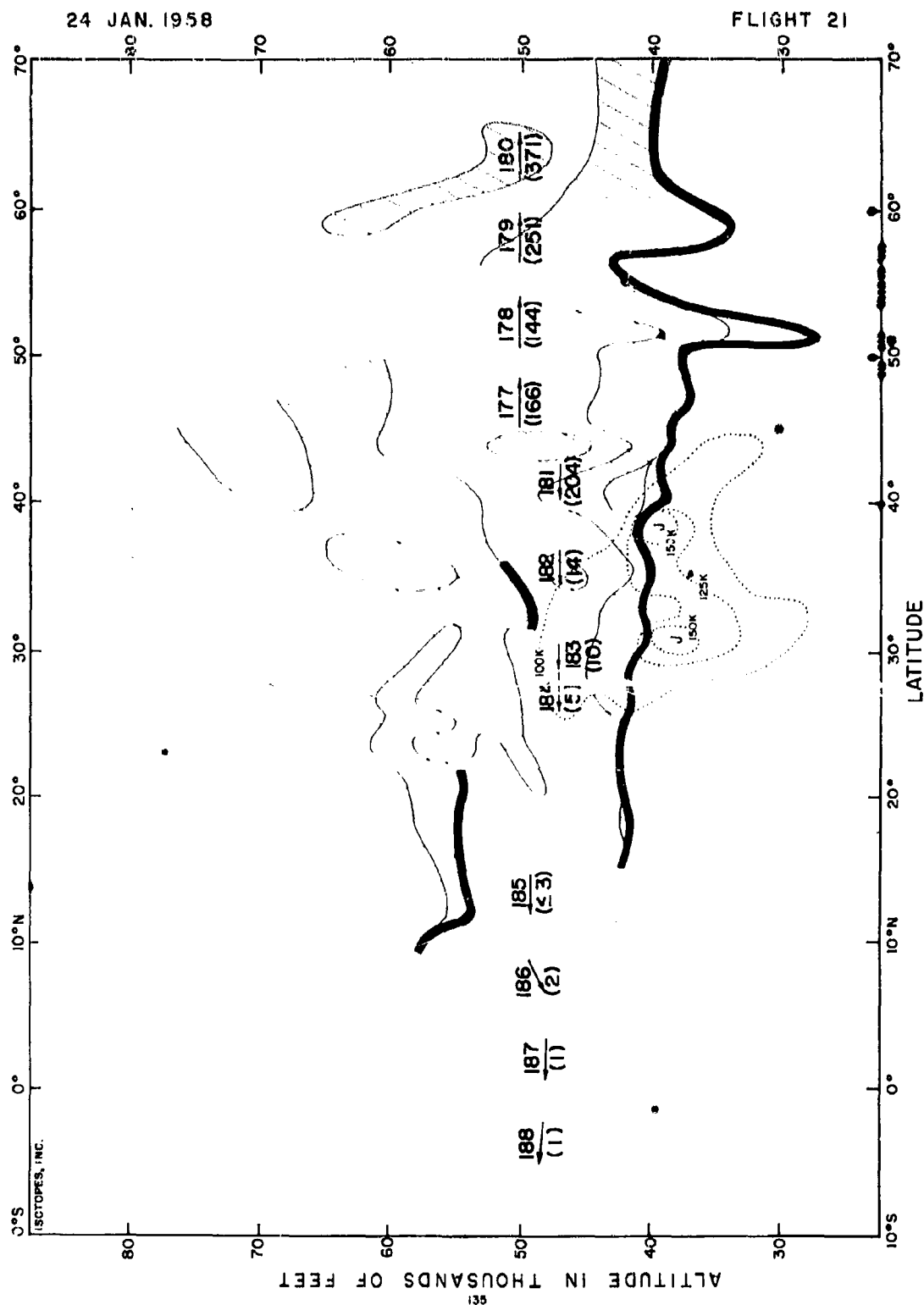


FIGURE 4.18 FLIGHT CROSS SECTION

Table 4.3 (continued)

AAC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		β T 1/2
				Total Beta	Sr 90	
31 January 1958 Mission 22						
716 PN	189	47°N	47	54,000	132 + 3	~70
	190	52°N	47	50,000	137 ± 3	46
	191	58°N	47	61,000	170 ± 4	65
	192	63°N	47	90,000	190 ± 9	~90
717 PS	193	41°N	44.3	74,000	196 + 4	~90
	194	36°N	44.5	17,000	41 ± 1	> 90
	195	30°N	44	1,480	≤ 5	---
	196	24°N	44	≤ 470	≤ 0.5	---
--- RN	213	19°N	44	760	≤ 2	---
	214	24°N	43.8	≤ 310	≤ 0.5	---
	215	30°N	44	1,600	≤ 8	---
	216	36°N	45	5,600	27 ± 1	~70
--- RS	209	13°N	44	1,660	≤ 3	---
	210	8°N	44	≤ 600	≤ 6	---
	211	3°N	44	≤ 290	≤ 0.2	---
	212	3°S	44	≤ 300	≤ 0.2	---

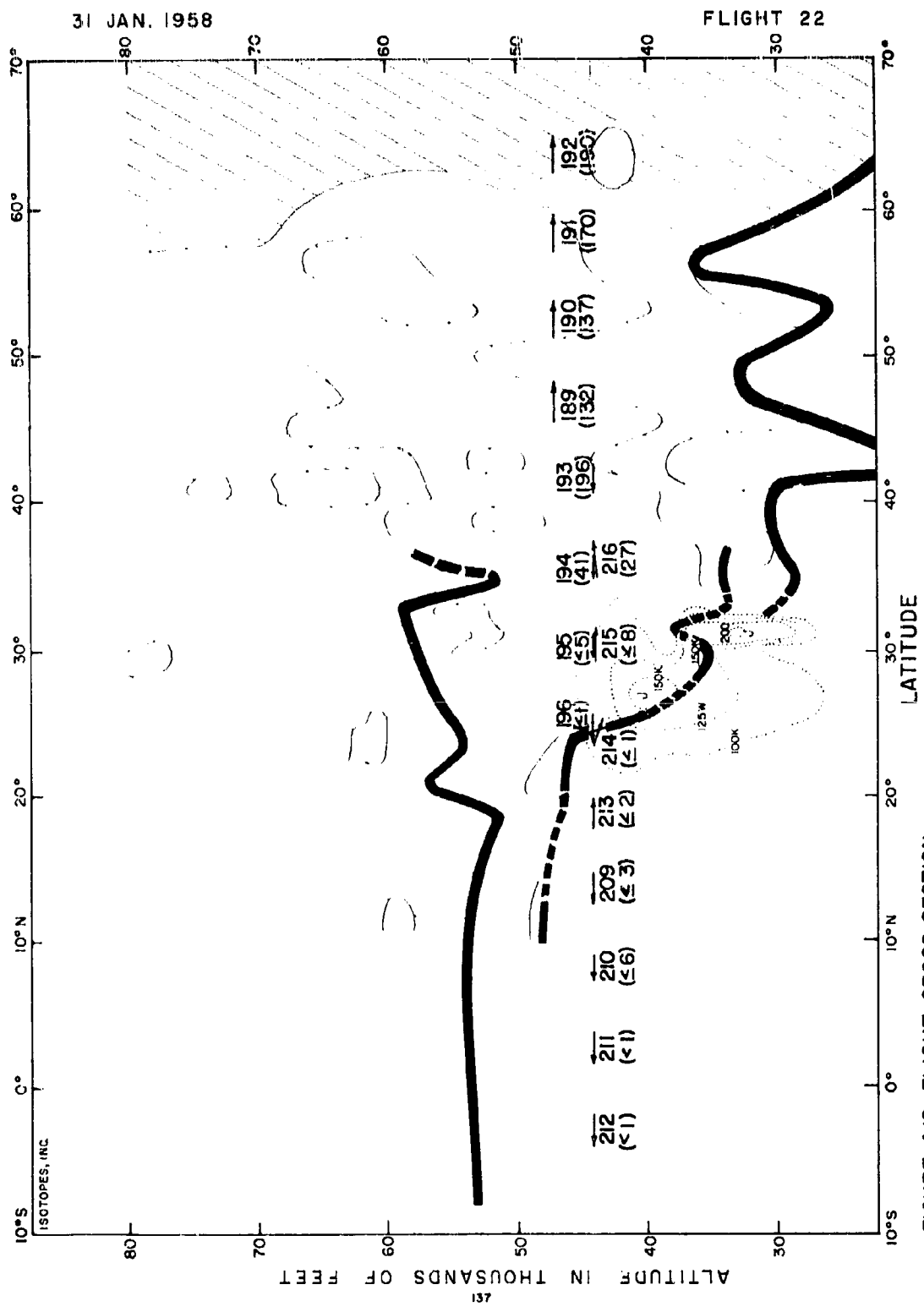


FIGURE 4.19 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		β T 1/2
				Total Beta	Sr 90	
4 February 1958 Mission 23						
716	197	47°N	55	42,000	161 + 9	70
PN	198	52°N	55	53,000	182 ± 17	67
	199	58°N	55	23,000	129 ± 3	57
	200	64°N	55	72,000	214 ± 5	62
---	221	21°N	64.5	48,000	217 + 5	43
RN	222	32°N	65.5	70,000	239 ± 9	47
	223	32°N	66.5	110,000	319 ± 9	51
	224	21°N	68.5	112,000	424 ± 8	37
---	217	13°N	55	4,000	23 ± 1	~ 70
RS	218	8°N	55	≤ 180	≤ 0.7	---
	219	2°N	55	≤ 180	0.2 ± 0.1	---
	220	4°S	55	≤ 180	0.2 ± 0.1	---

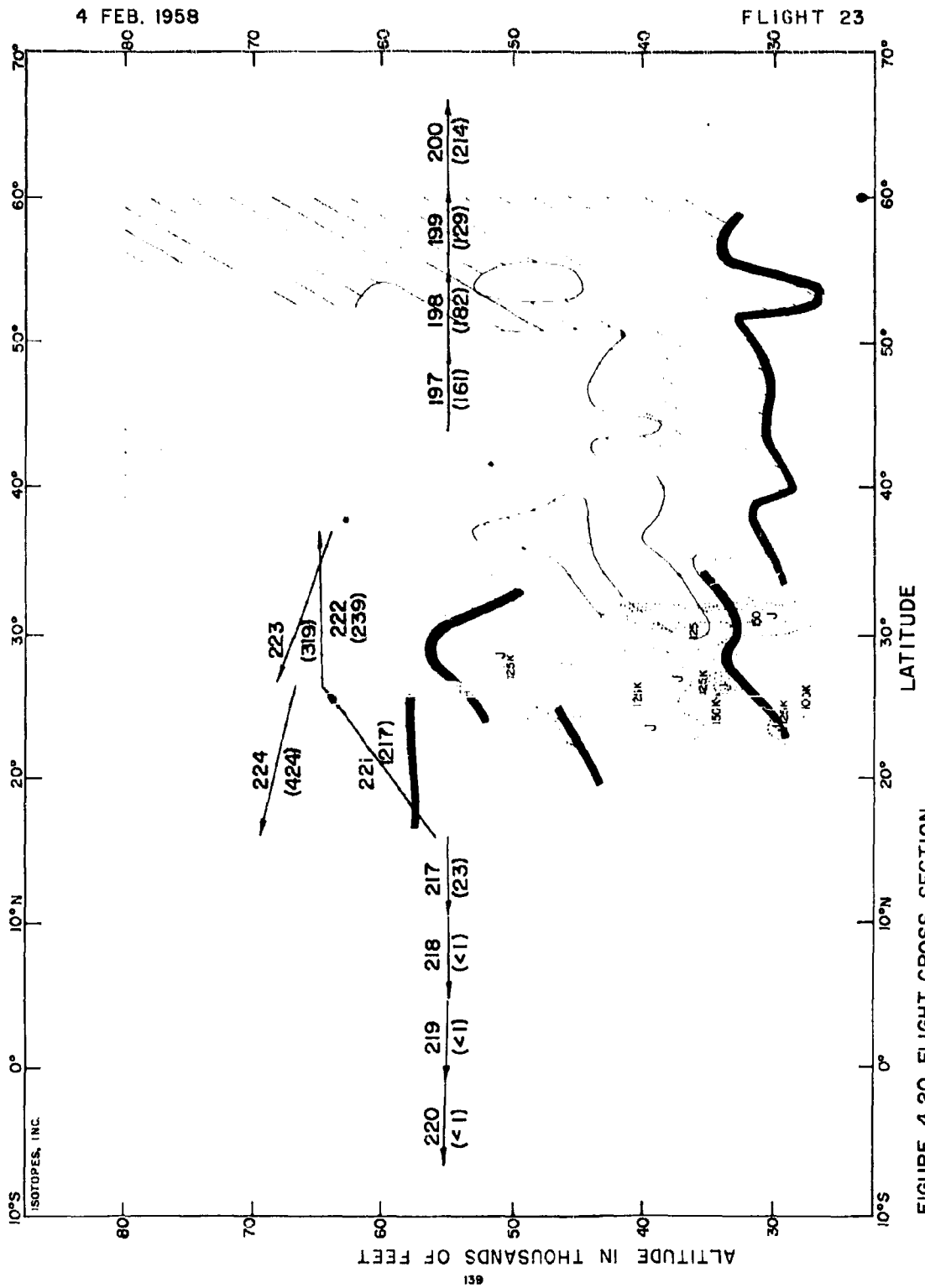


FIGURE 4.20 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		β T 1/2
				Total Beta	Sr 90	
7 February 1958 Mission 24						
717 PN	205	47°N	54.7	35,000	223 + 6	> 100
	206	52°N	55	36,000	230 $\pm$ 6	> 100
	207	58°N	54.9	34,000	154 $\pm$ 4	> 100
	208	64°N	54.9	24,000	143 $\pm$ 6	90
716 PS	201	41°N	55	29,000	175 + 5	> 100
	202	35°N	55	9,600	61 $\pm$ 1	85
	203	30°N	55	3,400	24 $\pm$ 1	> 100
	204	27°N	55.5	2,000	$\leq$ 17	long
--- RS .	229	13°N	55.1	3,200	18 + 1	$\sim$ 90
	230	8°N	55	$\leq$ 290	$\leq$ 0.2	long
	231	2°N	55	$\leq$ 280	$\leq$ 0.3	long
	232	3°S	55.2	$\leq$ 280	$\leq$ 0.1	long
--- RS	225	10°N	65	47,000	227 + 5	42
	226	1°S	67.5	250,000	702 $\pm$ 13	55
	227	1°S	69	380,000	1123 $\pm$ 19	57
	228	10°N	71	330,000	1059 $\pm$ 15	61

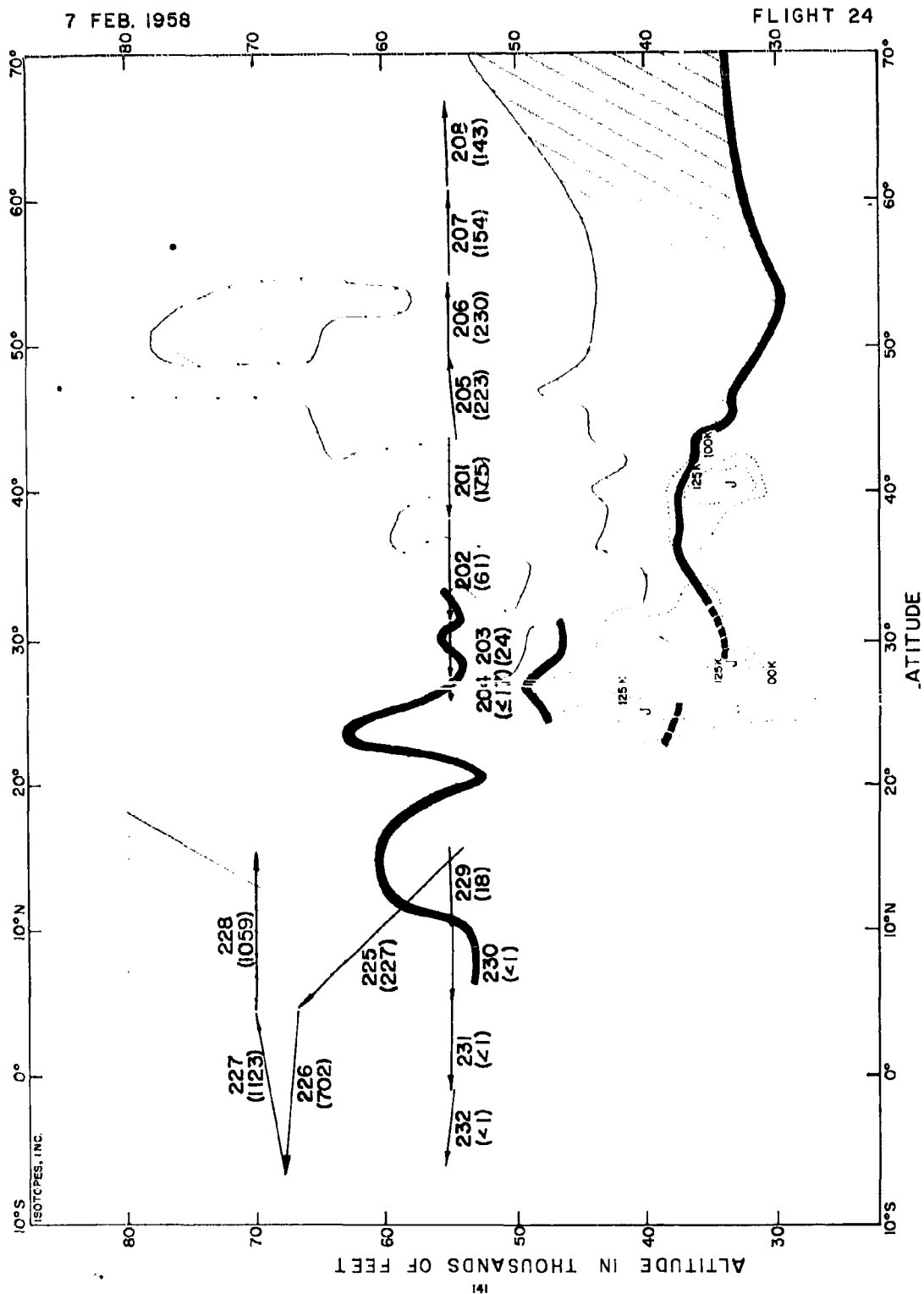


FIGURE 4.21 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm./1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	β T 1/2
				Total Beta	Sr ⁹⁰		
21 February 1958 Mission 25							
718 PO	237	45°N	55	27,000	194 ± 5	---	> 100
	238	45°N	55	27,000	224 ± 6	---	> 100
	239	45°N	50	7,100	48 ± 1	---	> 100
	240	45°N	50	7,200	45 ± 2	---	> 100
716 PS	233	41°N	55.5	33,000	194 ± 5	---	> 100
	234	35°N	55	26,000	176 ± 4	---	> 100
	235	30°N	55.3	11,100	81 ± 3	---	> 100
	236	24°N	55.3	1,270	5 ± 1	---	> 100
--- RN	263	21°N	66.5	18,700	151 ± 3	---	> 100
	264	33°N	67	3,200	64 ± 1	---	> 100
	266	22°N	70.4	50,000	238 ± 7	19	90

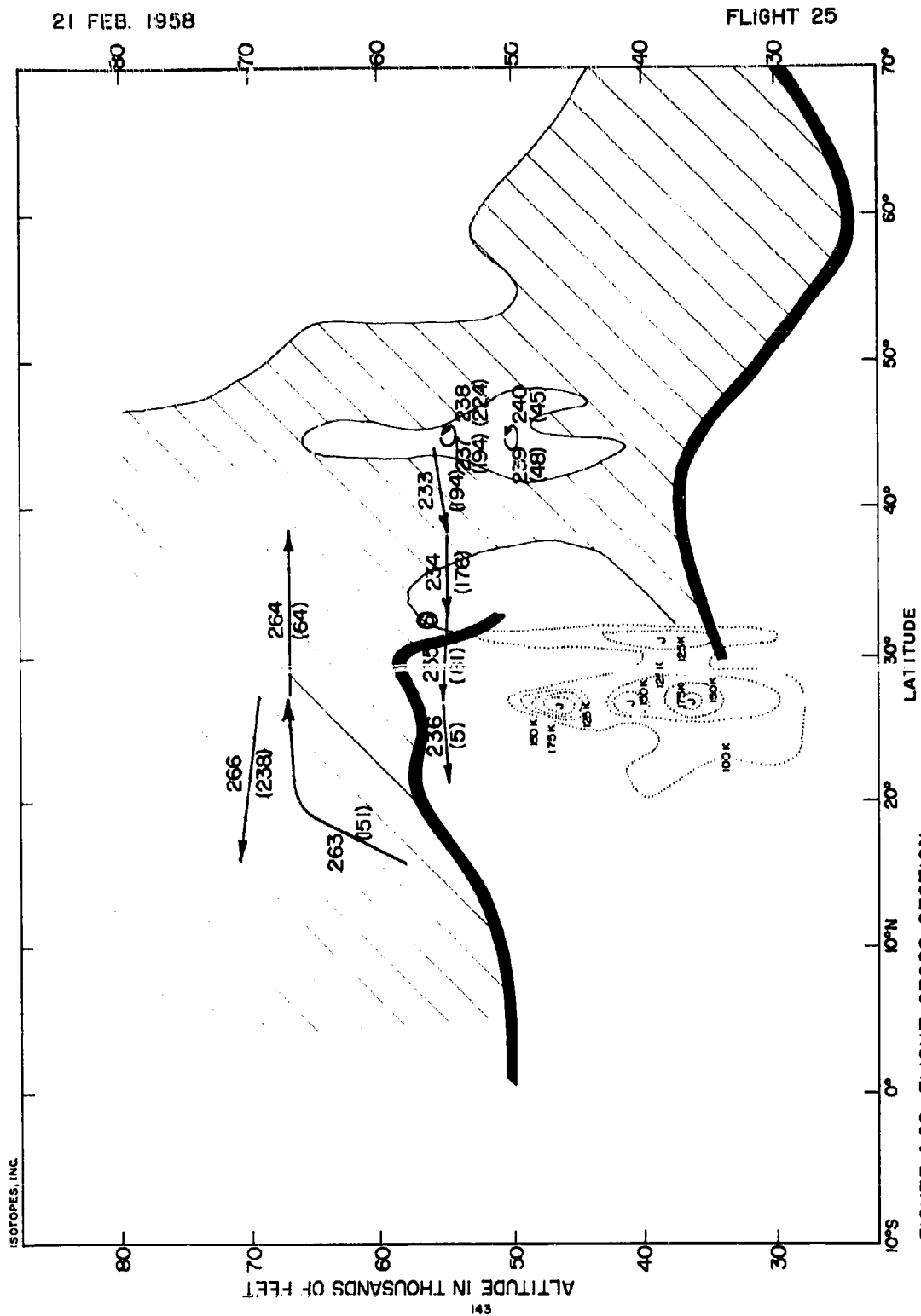


FIGURE 4.22 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	β T 1/2
				Total	Beta		
26 February 1958 Mission 26							
718 PO	249	45°N	45	22,000	135 + 4	---	> 100
	250	45°N	45	31,000	172 ± 6	---	> 100
	251	45°N	40	11,600	54 ± 2	---	> 100
	252	45°N	40	8,100	50 ± 12	8.1	> 100
716 PS	245	41°N	45	23,000	132 + 4	---	> 100
	246	36°N	45.5	13,200	88 ± 3	---	> 100
	247	30°N	45	4,600	26 ± 1	23	> 100
	248	24°N	45	< 330	1.1 ± 0.1	---	long
717 PS	241	41°N	55	18,700	146 + 4	---	> 100
	242	36°N	55	11,900	85 ± 3	---	> 100
	243	30°N	55	7,400	52 ± 2	---	> 100
	244	24°N	55	1,770	30 ± 1	---	> 100
---/RN	274	35°N	59	14,800	91 + 2	---	> 100
--- RN	267	19°N	64.5	23,000	128 + 4	---	90
	268	24°N	65	19,000	146 ± 15	11	> 100
	269	30°N	65	16,400	77 ± 1	---	> 100
	270	35°N	65	13,300	101 ± 3	---	> 100

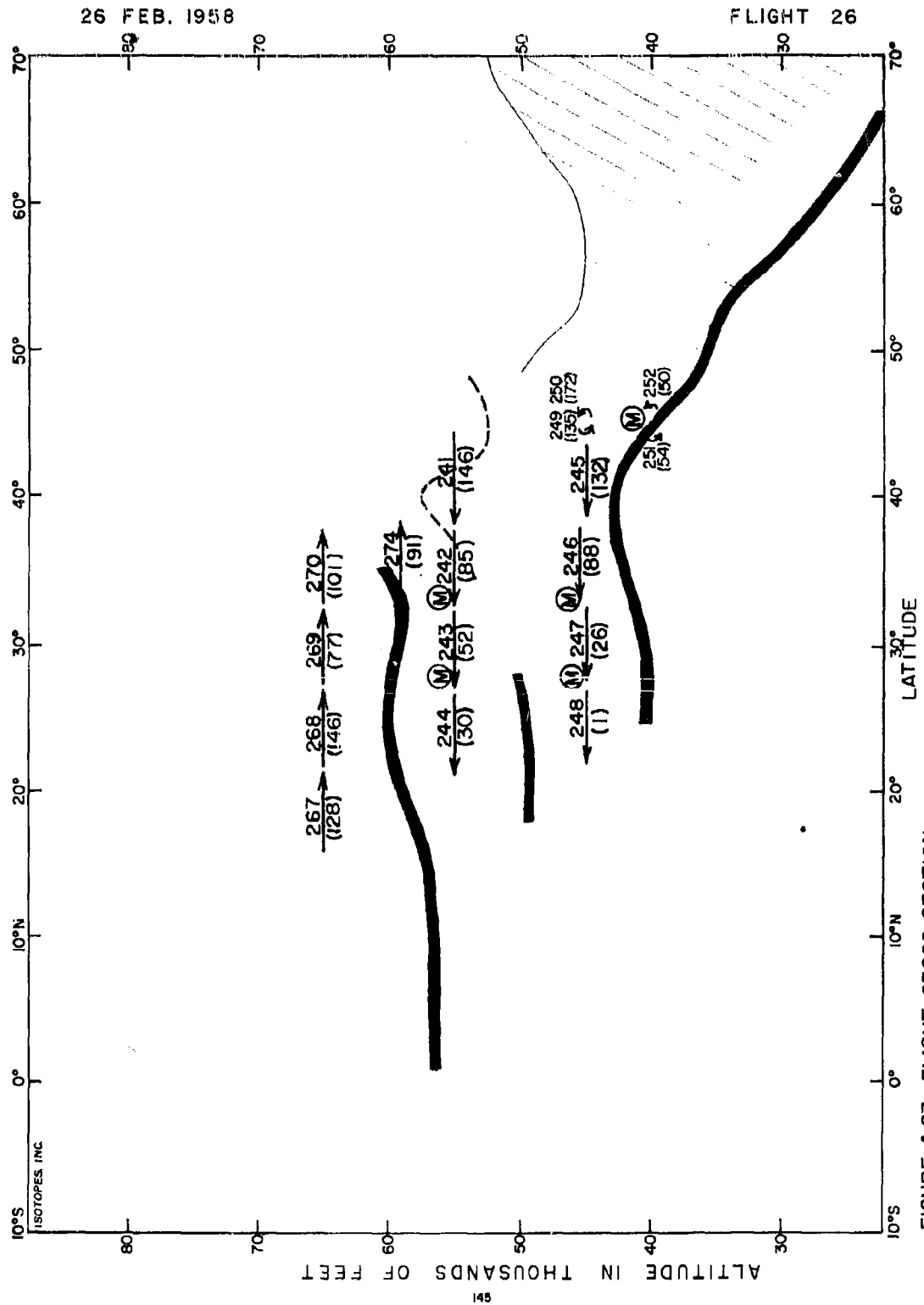


FIGURE 4.23 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Mission	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	β T 1/2
					Total Beta	Sr ⁹⁰		
1 March 1958								
718 PN	258		47°N	54.9	11,200	72 ± 2	≤ 5.3	> 100
	259		52°N	54.8	14,400	107 ± 3	---	75
	260		58°N	54.8	25,000	222 ± 4	---	62
	257		64°N	55	25,000	217 ± 5	---	70
717 PS	253		41°N	55	11,200	78 ± 2	---	> 100
	254		36°N	55	3,300	26 ± 1	---	> 100
	255		30°N	55	< 620	≤ 5	---	long
	256		24°N	55	< 450	≤ 0.4	---	long
--- RN	335		21°N	66.5	16,900	162 ± 6	7.7	90
	336		32°N	67.7	6,900	100 ± 3	4.0	97
	337		32°N	68.4	2,700	58 ± 4	---	long
	338		21°N	69.9	9,300	101 ± 12	6.4	> 100
--- RS	331		13°N	54.6	1,410	6 ± 1	---	long
	332		2°N	54.5	620	3 ± 1	---	long
	333		4°S	54.5	230	6 ± 1	---	long
	334		8°N	54.9	630	3 ± 1	---	long

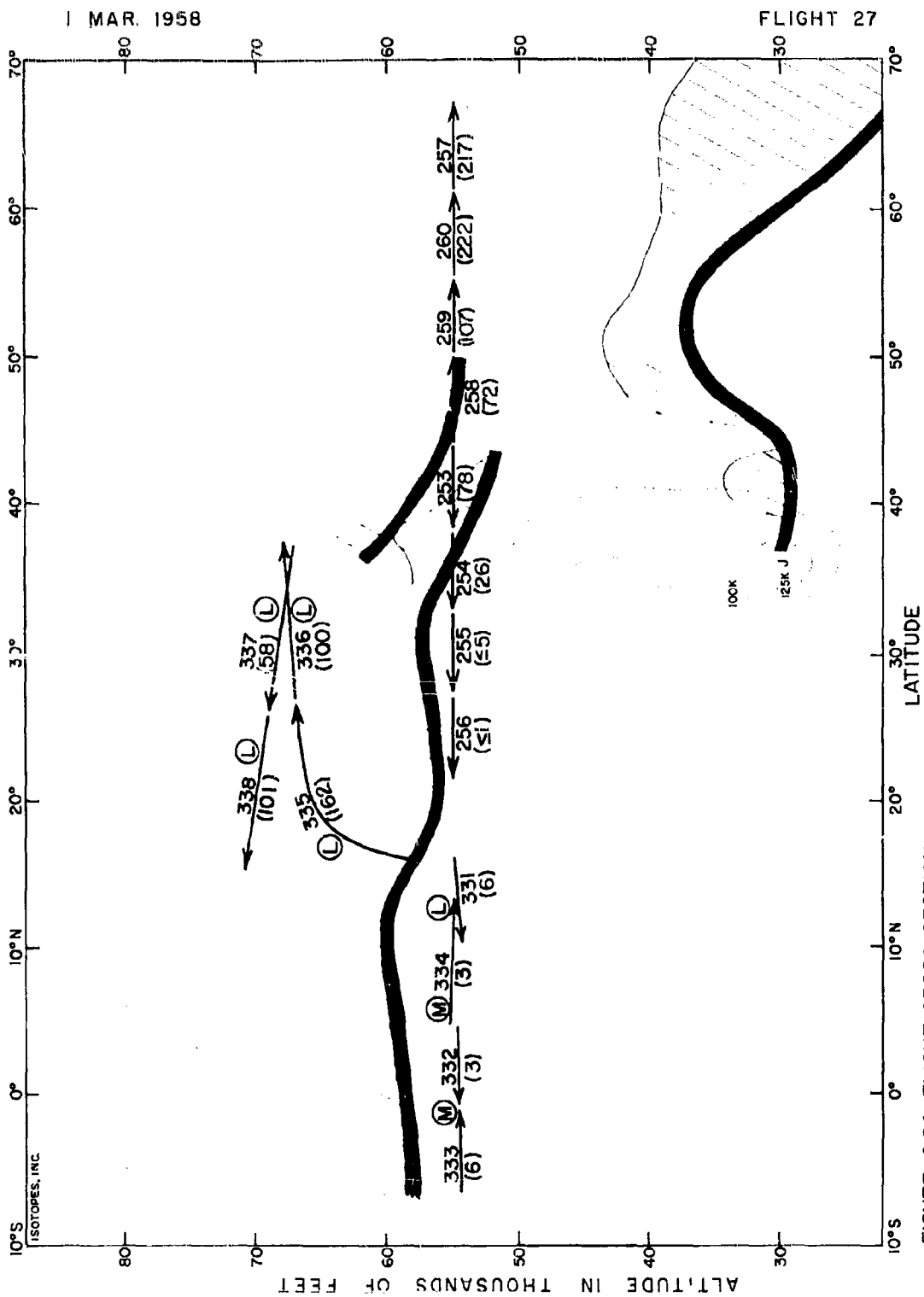


FIGURE 4.24 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	β T 1/2
				Total Beta	Sr ⁹⁰		
5 March 1958 Mission 28							
718 PN	279	47°N	55	17,500	149 + 4	---	> 100
	280	53°N	55	17,100	149 ± 3	---	> 100
	281	58°N	55	21,000	182 ± 5	---	> 100
	282	64°N	55	28,000	210 ± 5	---	> 100
717 PS	275	41°N	55	18,700	164 + 4	---	> 100
	276	36°N	55	15,100	145 ± 4	---	> 100
	277	31°N	54.5	3,400	23 ± 1	---	> 100
	278	27°N	54.6	< 900	6 ± 1	---	long
--- RS	343	10°N	66	37,000	221 + 6	17	> 100
	344	1°S	68	44,000	252 ± 13	20	100
	345	1°S	69	59,000	282 ± 21	---	92
	346	10°N	70	81,000	406 ± 22	---	100

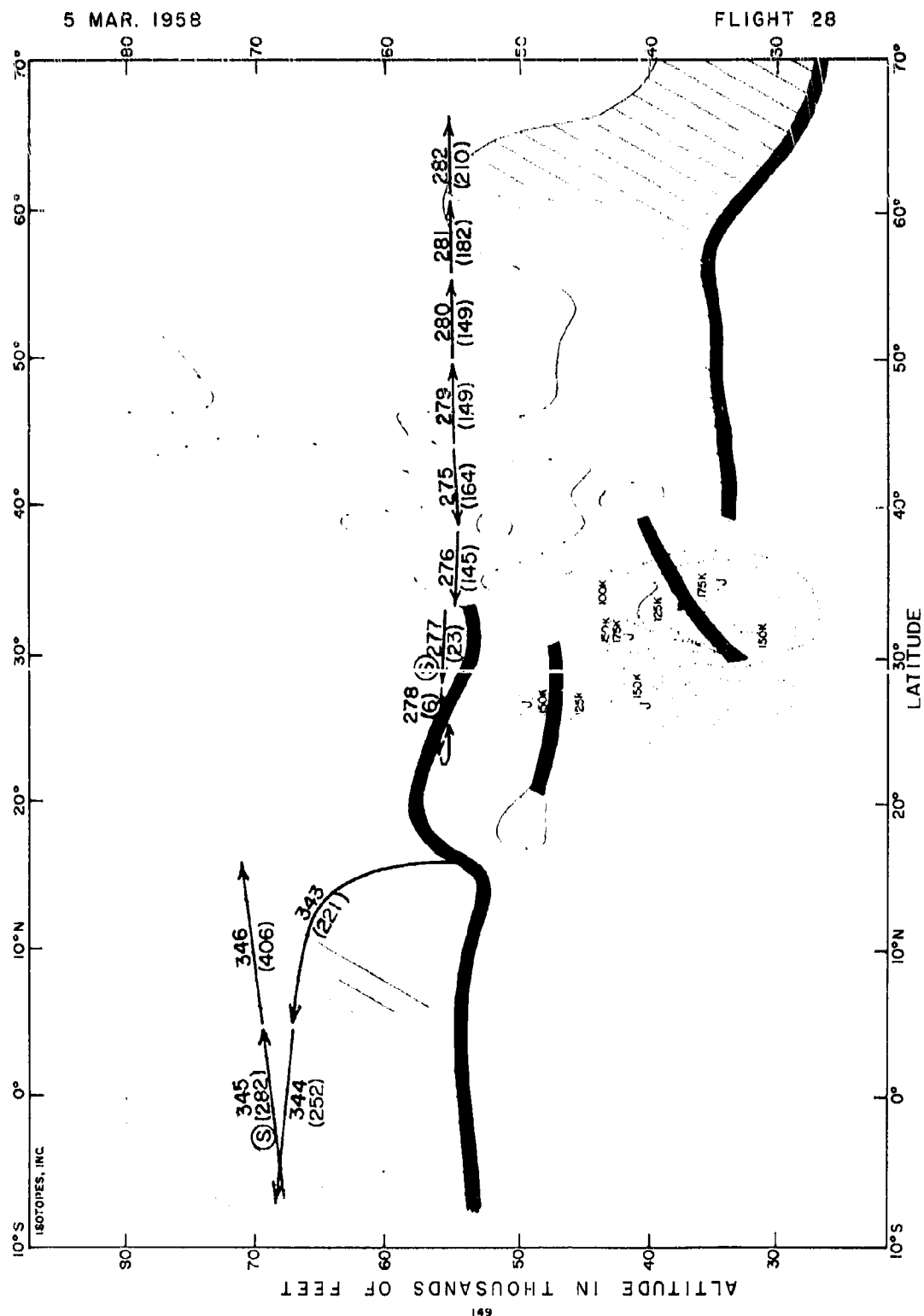


FIGURE 4.25 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ce ¹⁴⁴ /Sr ⁹⁰	β T 1/2
				Total Beta	Sr ⁹⁰			
6 March 1958 Mission Minney 1 and 2								
717	283	45°N	50	19,900	138 ± 12	3.1	15	> 100
M'P'L'S O	284	45°N	48.6	22,000	123 ± 4	7.3	18	> 100
	285	45°N	48.6	21,000	127 ± 6	2.4	15	> 100
	286	45°N	48	19,200	115 ± 3	6.5	15	> 100
718	287	45°N	54.9	18,500	164 ± 6	---	4.7	> 100
M'P'L'S O	288	45°N	55	15,800	155 ± 6	1.9	16	> 100
	289	45°N	55.2	17,000	139 ± 18	2.8	14	> 100
	290	45°N	54.8	18,800	151 ± 8	3.5	28	> 100

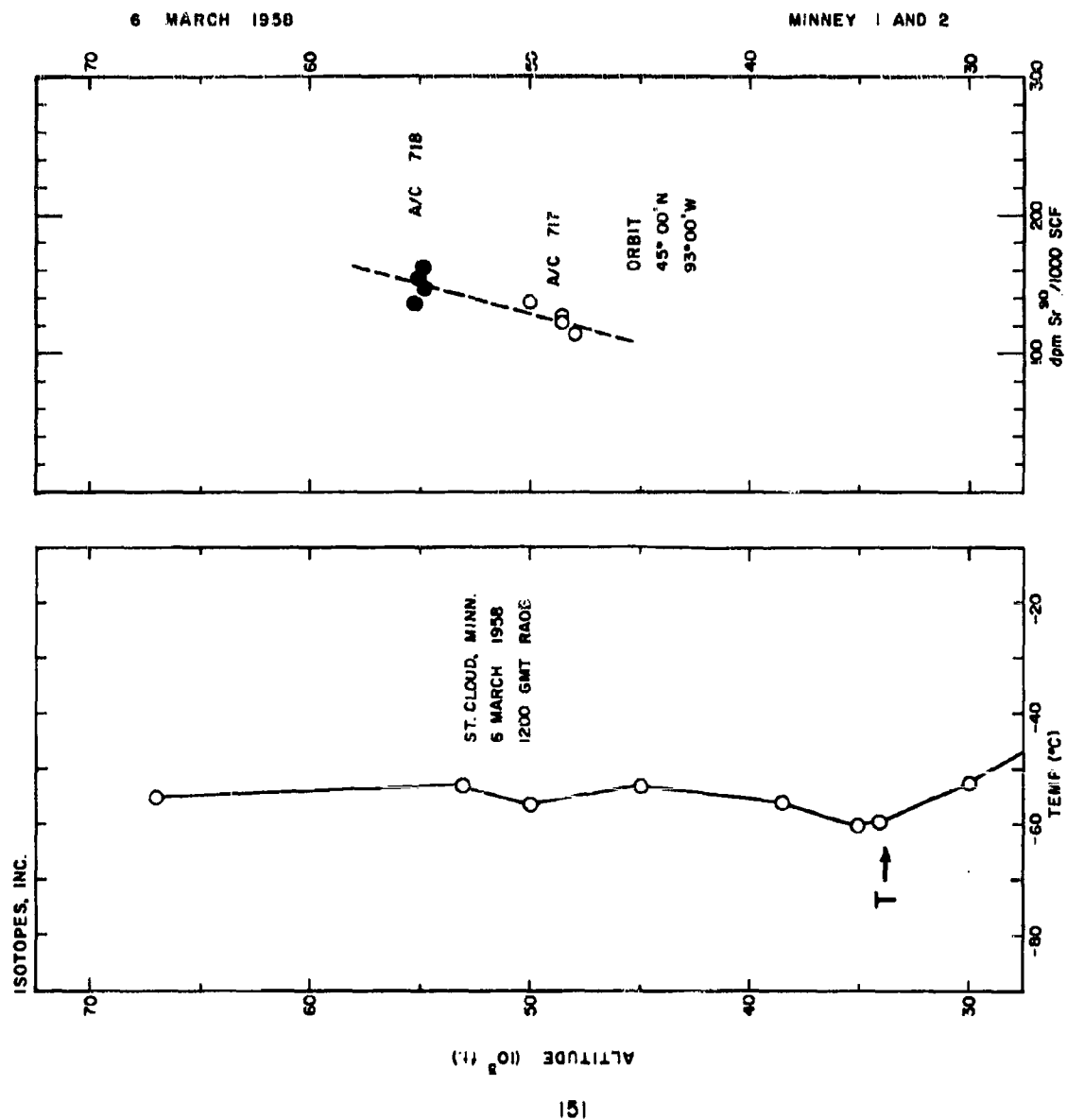


FIGURE 4.26 FLIGHT PROFILE

Table 4.3 (continued)

AC. No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr 89/Sr 90	β T 1/2
				Total Beta	Sr 90		
11 March 1958 Mission 29							
718 PN	295	47°N	55	16,800	125 + 1	---	> 100
	296	53°N	55	16,300	114 + 4	---	> 100
	297	58°N	55	16,900	138 + 4	---	> 100
	298	64°N	54.9	16,400	119 + 4	---	> 100
717 PS	291	42°N	55	15,400	134 + 10	---	> 100
	292	36°N	55	16,800	117 + 2	---	> 100
	293	30°N	55	5,400	37 + 1	---	> 100
	294	24°N	55	1,790	20 + 1	---	long
--- RN	311	22°N	66	---	118 + 4	5.7	long
	312	33°N	67.8	---	183 + 4	5.6	long
	313	33°N	68.8	28,000	270 + 8	---	long
	314	22°N	70	29,000	233 + 8	---	long

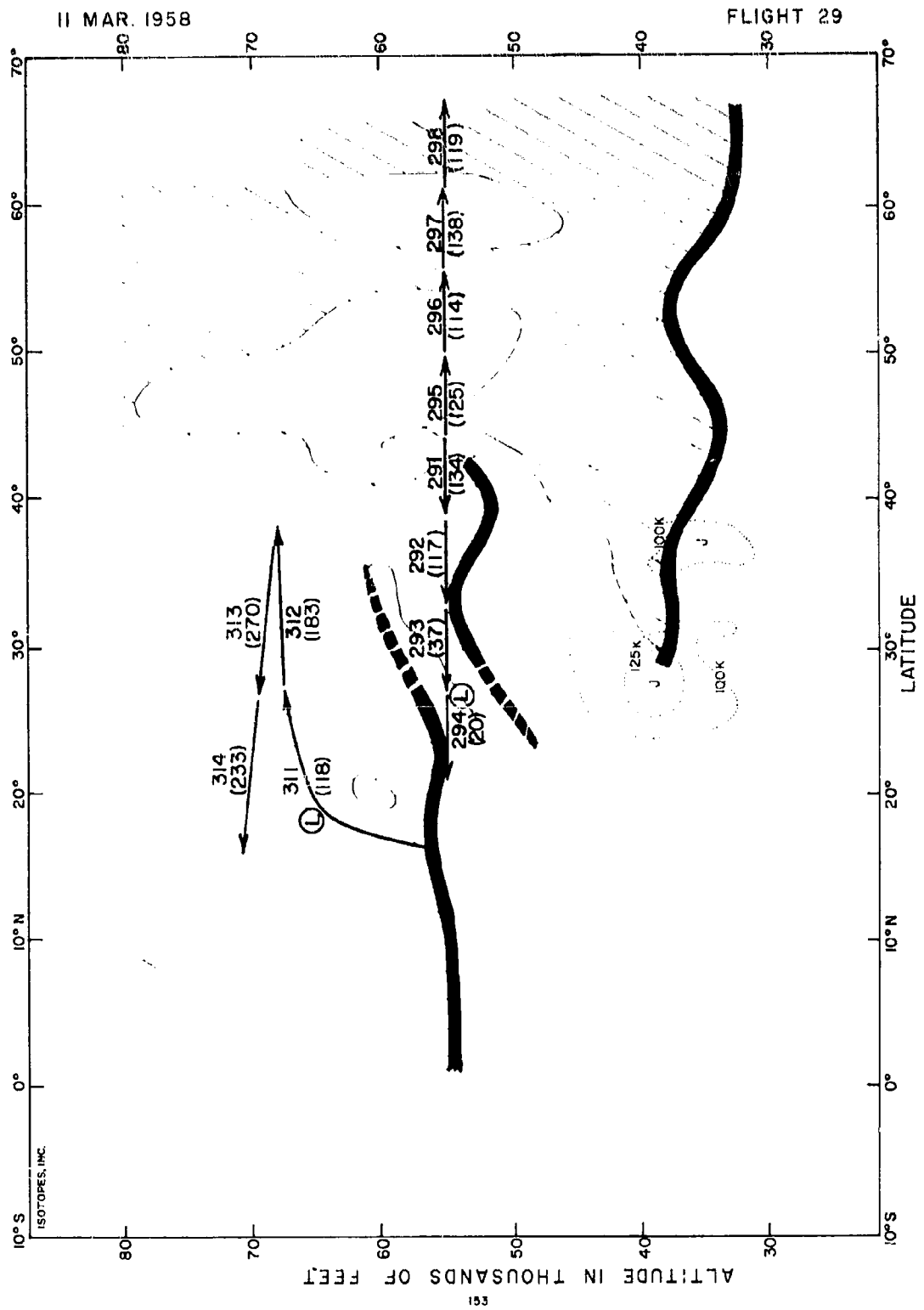


FIGURE 4.27 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ce ¹⁴⁴ /Sr ⁹⁰	β T 1/2
				Total Beta	Sr ⁹⁰			
18 March 1958 Mission 30								
716 PS	299	41°N	45.3	560,000	374 + 29	63	25	15
	300	35°N	45	13,700	89 ± 3	---	---	70
	301	30°N	45.5	8,600	40 ± 1	---	---	56
	302	24°N	45.5	720	2 ± 1	---	---	long
718 PS	303	41°N	55.3	15,800	126 + 4	---	---	68
	304	35°N	55.3	10,600	89 ± 4	---	---	87
	305	29°N	55	8,200	66 ± 2	---	---	> 100
	306	24°N	55	3,100	17 ± 1	---	---	> 100
--- RN	319	19°N	60	7,100	81 + 9	---	---	> 100
	320	24°N	60	11,300	120 ± 3	---	---	> 100
	321	30°N	60	15,100	133 ± 14	---	---	> 100
	322	35°N	60	15,000	164 ± 8	---	---	90
--- RN	315	19°N	64.5	26,000	217 + 5	---	---	90
	316	24°N	65	23,000	182 ± 18	8.8	---	92
	317	30°N	65	22,000	175 ± 7	8.4	---	98
	318	35°N	65	18,200	208 ± 15	---	---	96

FLIGHT 30

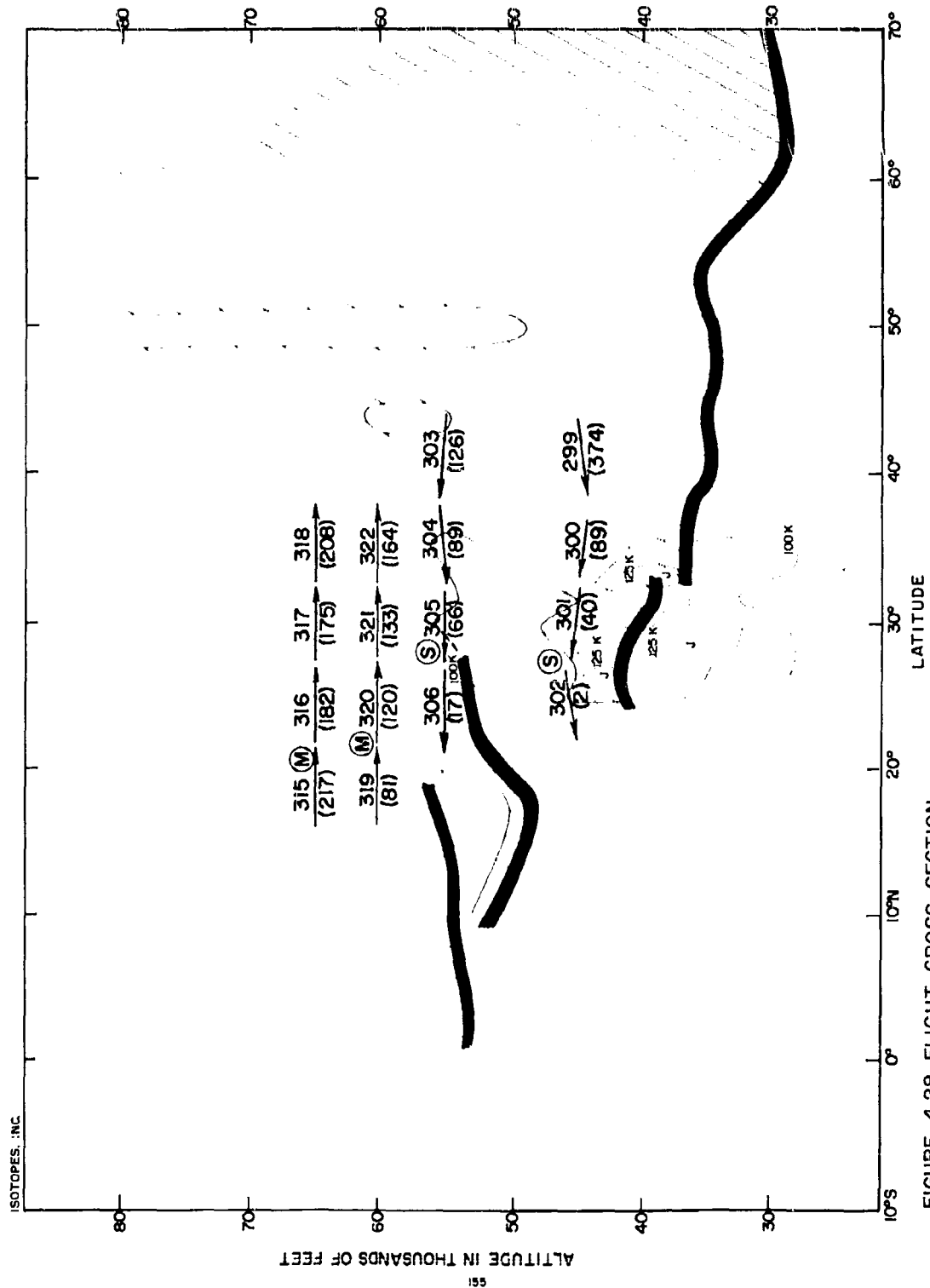


FIGURE 4.28 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	β T 1/2
				Total Beta	Sr ⁹⁰		
19 March 1958 Special No. 1							
717	323	43°N	40	26,000	136 ± 4	---	42
PO	324	43°N	45	11,400	95 ± 9	8.2	98
	325	43°N	50	16,900	112 ± 12	---	>100
	326	43°N	45.5	11,000	88 ± 3	8.2	>100

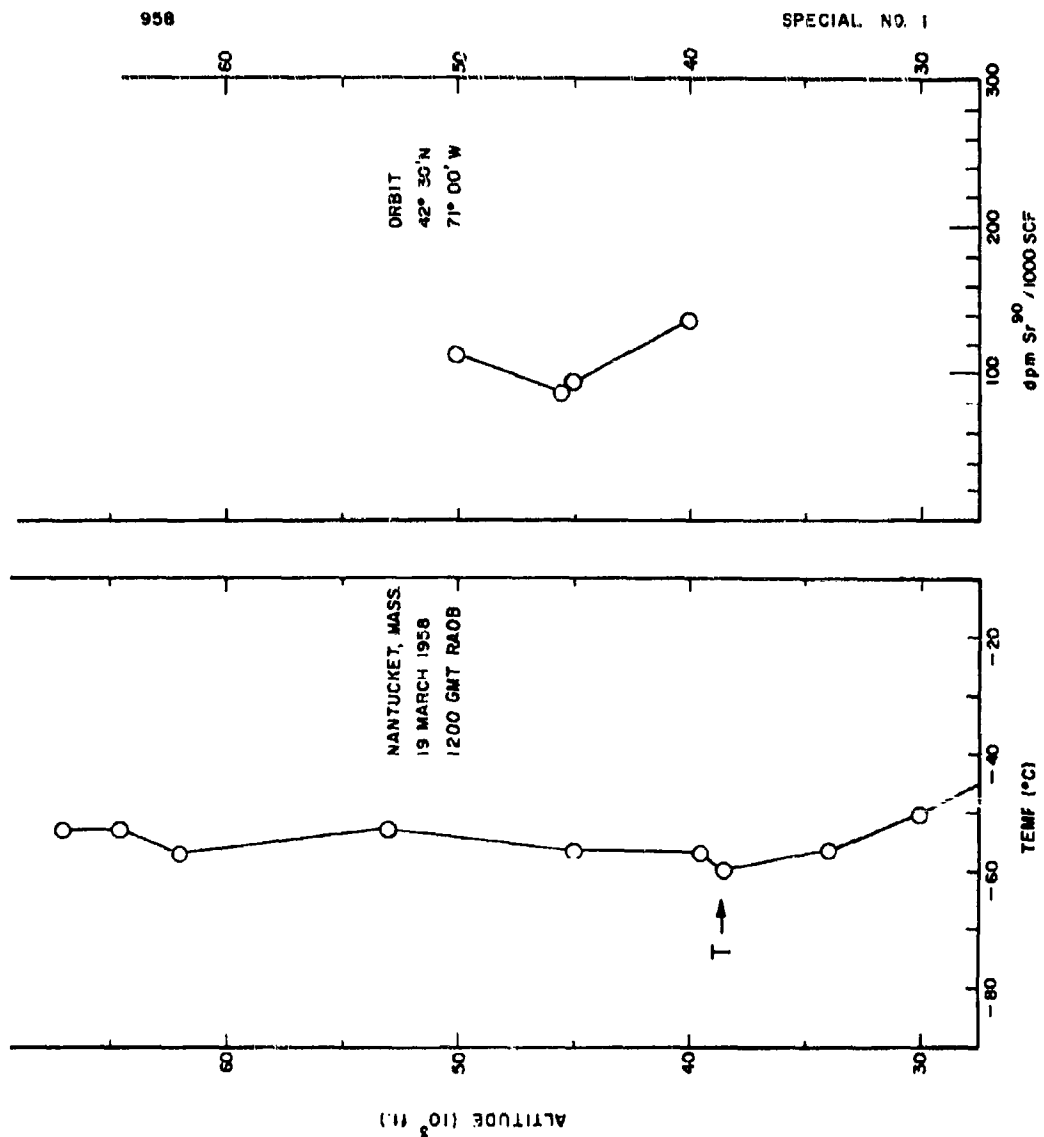


FIGURE 4.29 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ce ¹⁴⁴ /Sr ⁹⁰	β T 1/2
				Total Beta	Sr ⁹⁰			
25 March 1958 Mission 31								
716 PS	327	41°N	60	230,000	211 ± 6	76	27	20
	328	35°N	60	610,000	405 ± 35	96	32	21
	329	29°N	60	1,110,000	865 ± 61	91	33	22
	330	24°N	60	260,000	285 ± 44	69	27	22
718 PS	355	41°N	60	192,000	229 ± 25	68	23	25
	356	35°N	60	630,000	398 ± 26	87	36	21
	357	29°N	60	1,070,000	699 ± 61	89	36	21
	358	24°N	60	240,000	321 ± 100	49	23	20
--- RN	347	19°N	65	18,800	193 ± 13	---	13	> 100
	348	24°N	65	21,000	178 ± 16	9.4	15	> 100
	349	30°N	65	28,000	191 ± 4	10	20	83
	350	36°N	65	28,000	216 ± 8	9.8	17	> 100
--- RN	351	19°N	65	15,100	143 ± 4	8.6	16	> 100
	352	24°N	65	22,000	203 ± 6	6.0	14	97
	353	30°N	65	48,000	199 ± 33	18	13	33
	354	36°N	65	31,000	216 ± 23	11	14	48

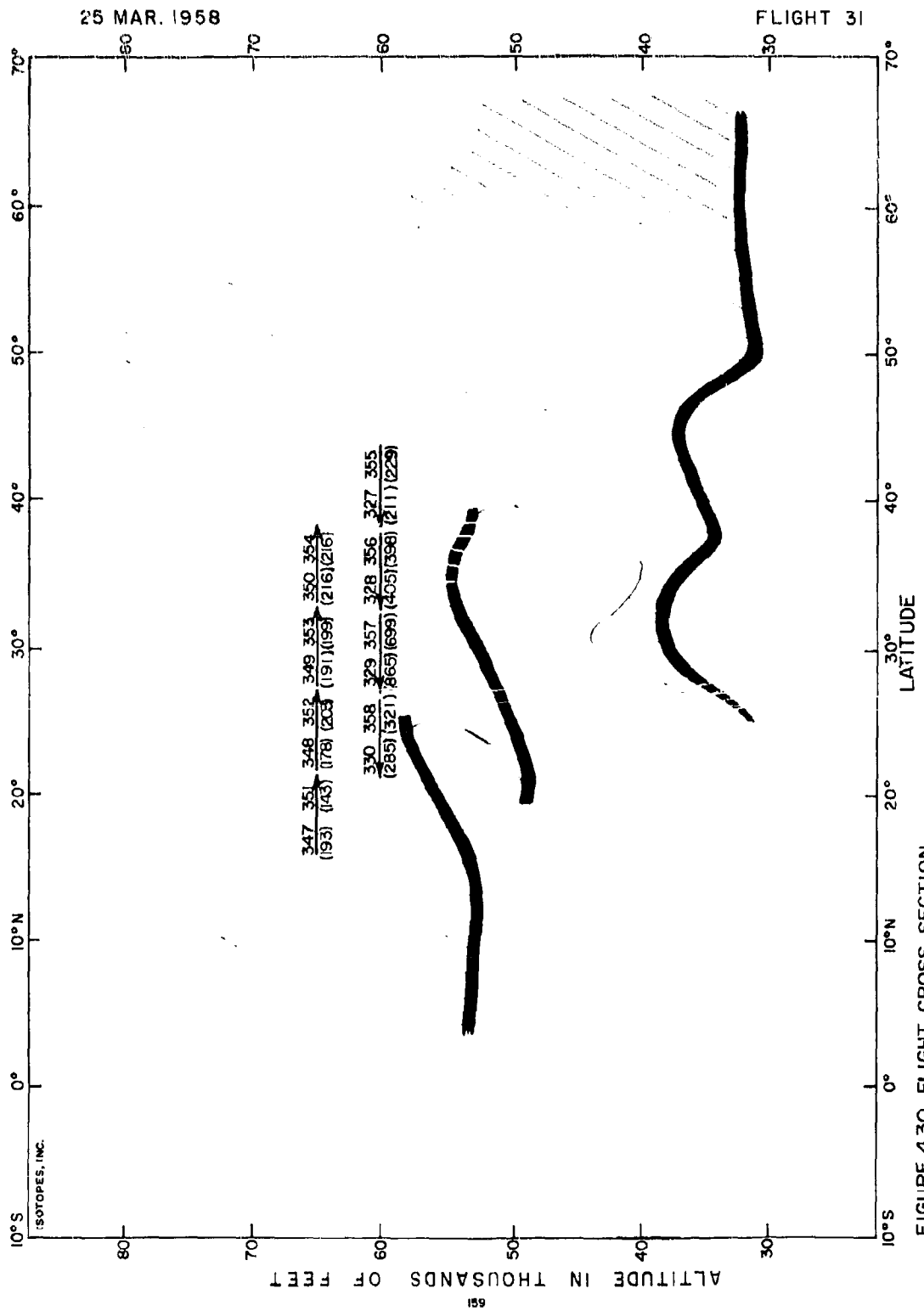


FIGURE 4.30 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	β T 1/2
				Total Beta	Sr ⁹⁰			
28 March 1958 Mission 33								
717 PN	359	47°N	55	280,000	261 ± 11	75	2.0	23
	360	52°N	55	610,000	457 ± 58	83	2.2	20
	361	58°N	55	590,000	301 ± 25	65	2.7	20
718 PS	363	24°N	54.7	29,000	28 ± 1	63	2.9	25
	364	30°N	54.1	66,000	80 ± 3	57	1.6	24
	365	35°N	54.9	13,800	93 ± 4	7.9	< 0.4	58
	366	41°N	55	13,900	83 ± 3	8.4	---	78
--- RN	367	22°N	66	18,000	104 ± 4	8.8	---	63
	368	33°N	66.5	31,000	160 ± 4	11	---	53
	369	33°N	67.5	26,000	156 ± 6	10	---	85
	370	22°N	69	40,000	246 ± 7	---	---	76
--- RS	371	13°N	55.5	< 440	2 ± 1	< 4.1	---	long
	372	8°N	55	< 480	2 ± 1	< 4.1	---	long
	373	2°N	55	< 470	3 ± 1	< 21	---	long
	374	4°S	55	< 480	3 ± 1	< 21	---	long

28 MAR. 1958

FLIGHT 33

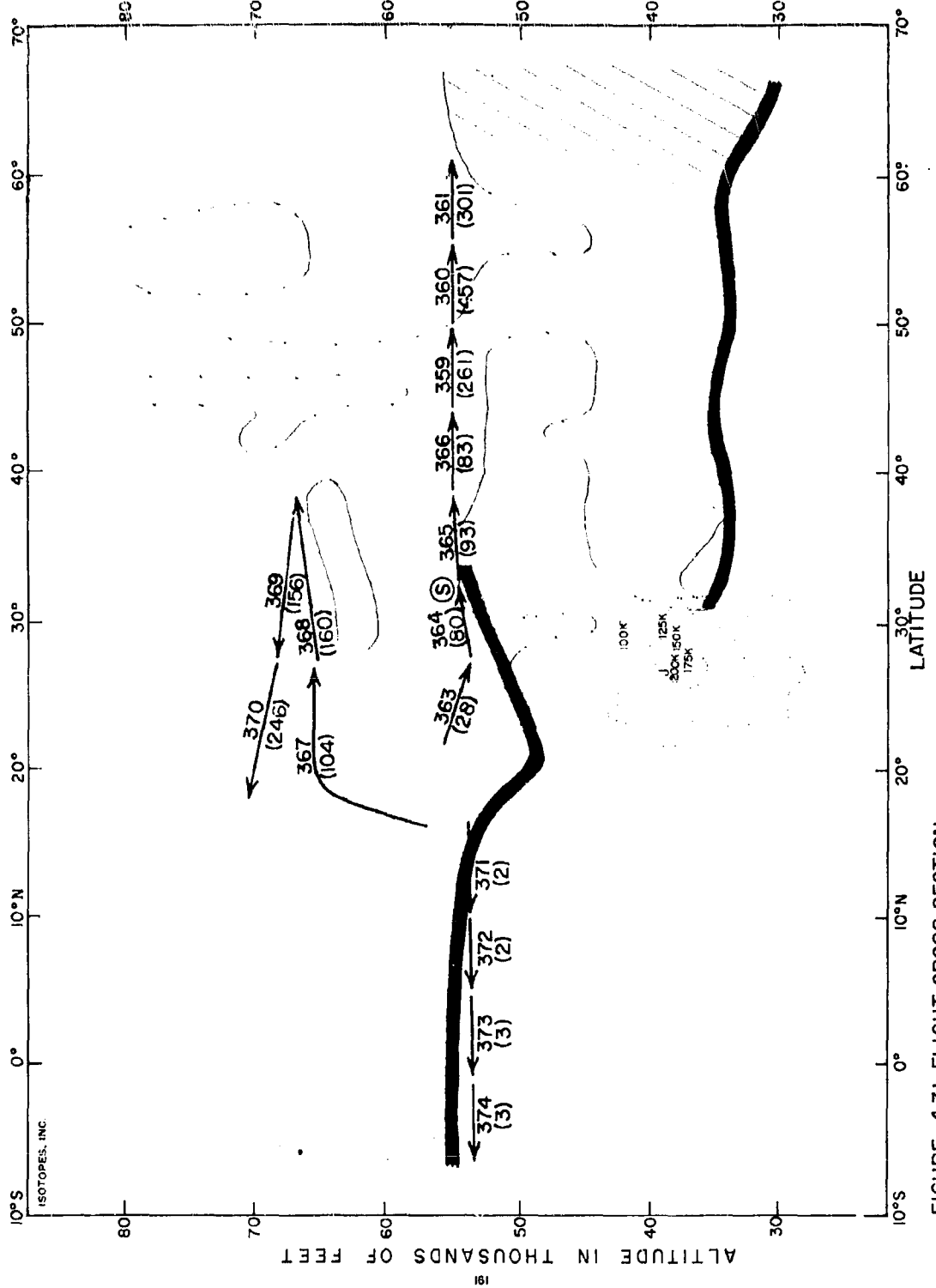


FIGURE 4.31 FLIGHT CROSS SECTION

Table 4.3 (continued)

AAC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	β T 1/2
				Total Beta	Sr ⁹⁰			
1 April 1958 Mission 32								
716 PN	375	50°N	62.7	95,000	262 ± 9	---	---	23
	376	62°N	64.8	26,000	71 ± 4	26	4.6	22
	377	62°N	65	14,200	58 ± 3	15	6.6	32
	378	50°N	65	84,000	173 ± 6	35	3.1	27
718 PS	379	38°N	64	155,000	218 ± 4	43	2.9	23
	380	26°N	65	186,000	274 ± 8	45	2.7	23
	381	26°N	65	140,000	242 ± 7	38	---	24
	382	38°N	65	165,000	168 ± 6	59	2.6	24
--- RN	383	22°N	64.3	60,000	136 ± 4	28	4.0	25
	384	33°N	64.5	300,000	250 ± 6	---	---	25
	385	33°N	64.5	230,000	224 ± 15	63	2.8	23
	386	22°N	65	61,000	140 ± 5	30	2.9	30
--- RS	387	10°N	64.7	16,500	108 ± 4	9.9	---	70
	388	1°S	64.8	22,000	137 ± 4	---	---	> 100
	389	1°S	65	24,000	175 ± 6	---	---	> 100
	390	10°N	65.3	19,600	99 ± 4	14	---	> 100

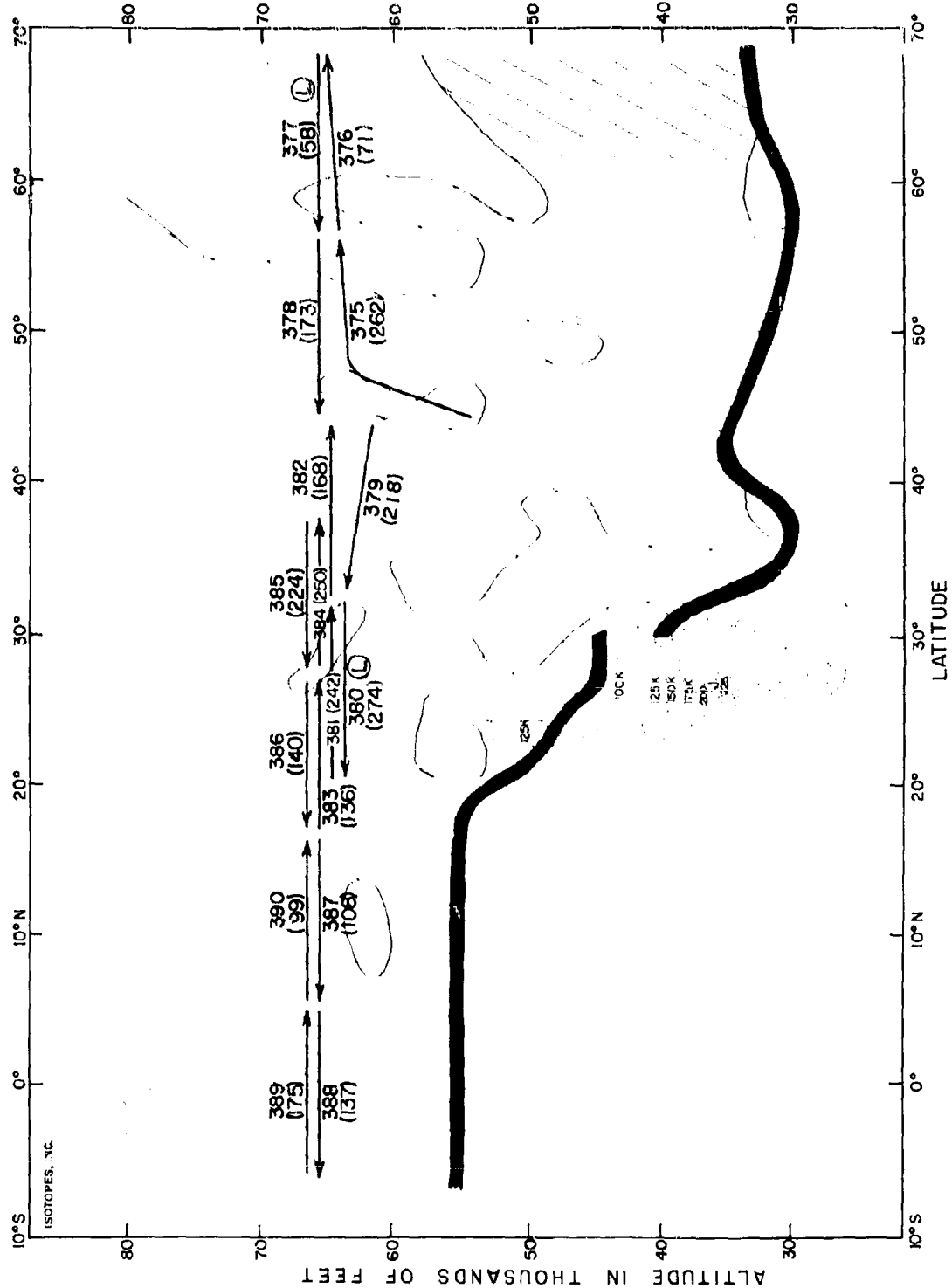


FIGURE 4.32 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ce ¹⁴⁴ /Sr ⁹⁰	β T 1/2
				Total Beta	Sr ⁹⁰			
4 April 1958 Mission 34								
718 PS	395	41°N	45.2	106,000	174 ± 5	38	---	28
	396	36°N	45.2	109,000	219 ± 6	27	19	27
	397	30°N	45	16,300	77 ± 4	12	23	40
	398	25°N	45	930	5 ± 1	---	---	long
716 PS	391	41°N	54.8	139,000	231 ± 7	37	27	27
	392	35°N	54.7	320,000	247 ± 7	65	27	19
	393	30°N	54.6	250,000	207 ± 7	57	19	17
	394	24°N	54.5	40,000	43 ± 1	42	24	17
--- RN	403	19°N	60	188,000	125 ± 5	78	29	18
	404	24°N	60	930,000	457 ± 61	88	30	17
	405	29°N	60	159,000	202 ± 33	47	18	20
	406	35°N	60	240,000	254 ± 8	65	---	25
--- RN	399	19°N	65	15,600	164 ± 8	5.9	---	> 100
	400	24°N	65	17,600	147 ± 12	6.3	---	> 100
	401	30°N	65	16,500	118 ± 7	7.5	---	> 100
	402	35°N	65	55,000	167 ± 11	19	---	26

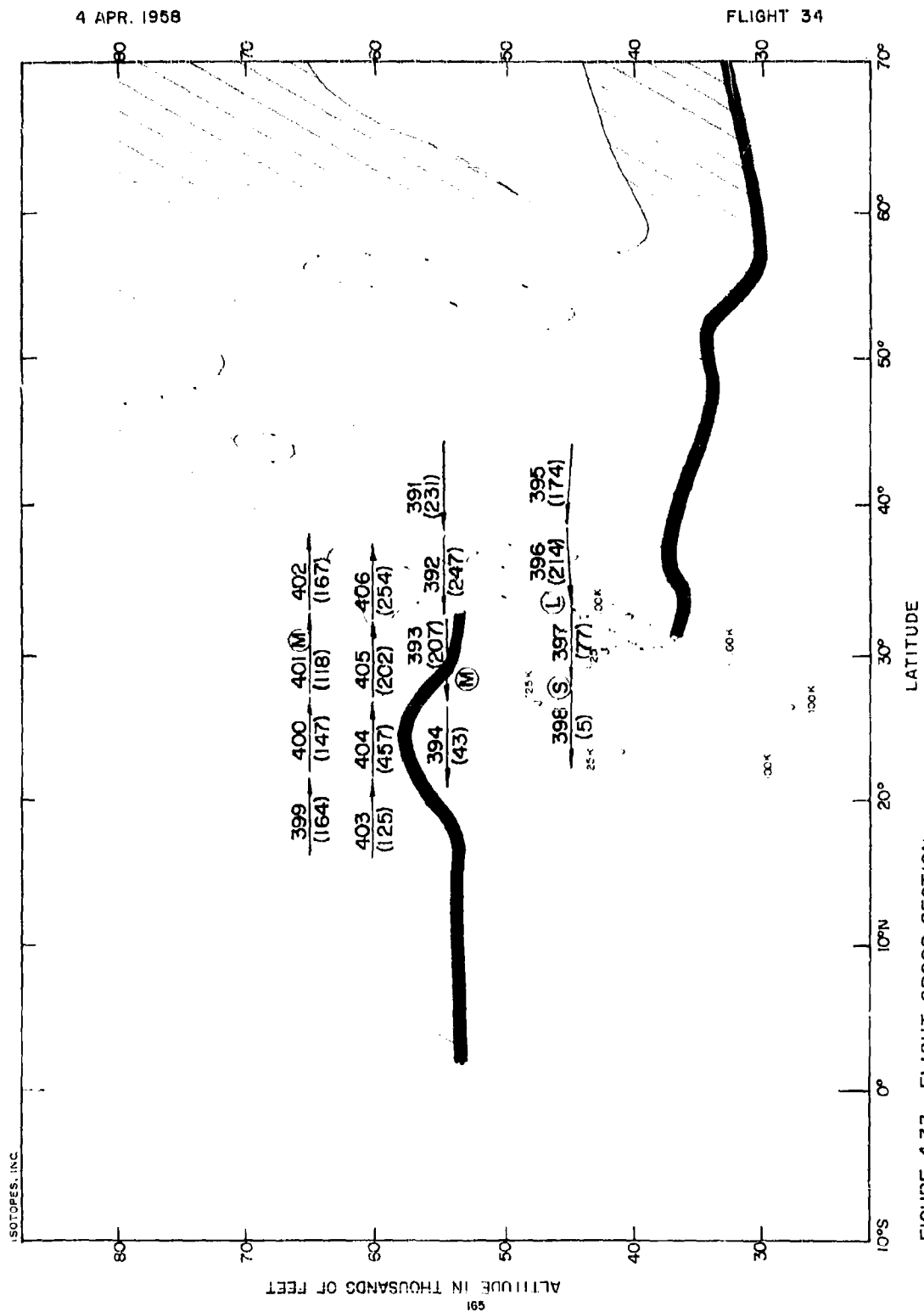


FIGURE 4.33 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr 90	Sr 89/Sr 90	Ce 144/Sr 90	Ba 140/Sr 89	β T 1/2
				Total	Beta					
8 April 1958 Mission 35										
716 PN	407	47°N	55	67,000		113 + 4	40	---	4.4	27
	408	53°N	55	210,000		183 ± 5	77	---	3.6	22
	409	58°N	55	146,000		176 ± 5	43	---	---	19
	410	64°N	55	720,000		771 ± 12	43	13	---	17
--- PR	419	41°N	54.5	78,000		122 + 1	43	---	---	29
	420	36°N	54.5	46,000		80 ± 2	43	---	---	31
	421	30°N	55	17,000		38 ± 1	39	---	---	36
	422	24°N	55	1,710		8 ± 1	48	---	---	long
--- RN	411	22°N	63.5	17,400		126 + 1	8.5	---	---	> 100
	*412	28°N/35°N	63.5	21,000		137 ± 4	5.5	---	---	89
	413	33°N	65	21,000		119 ± 4	9.3	---	---	45
	414	22°N	67	28,000		176 ± 6	6.7	---	---	60
--- RS	415	13°N	56	601		≤ 4	---	---	---	long
	416	8°N	55	380		≤ 4	---	---	---	long
	418	4°S	55	≤ 480		1.6 + 0.2	---	---	---	long
	417	2°N	55	320		1.6 ± 0.2	---	---	---	long

* Exposure of HASP No. 412 interrupted for 35 minutes due to flame out of aircraft.

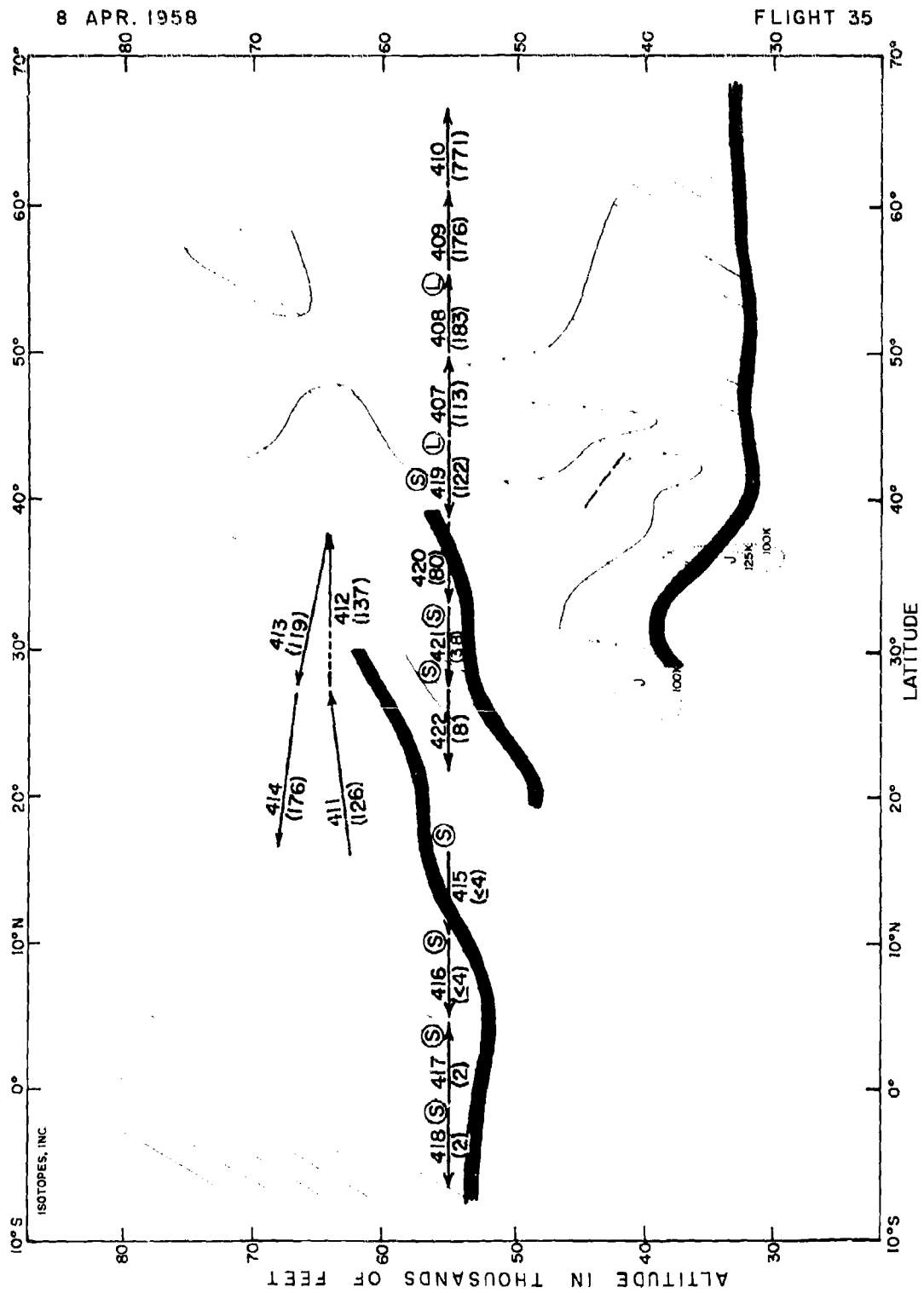


FIGURE 4.34 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Mission	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	β T 1/2
					Total Beta	Sr ⁹⁰		
15 April 1958 Mission 36								
716 PN	427		47°N	55	102,000	219 ± 5	---	23
	428		53°N	55	94,000	170 ± 3	36	30
	429		58°N	55	139,000	217 ± 6	45	32
	430		64°N	55	99,000	227 ± 7	36	33
718 PS	423		24°N	53.2	15,900	27 ± 1	42	45
	424		30°N	54.2	59,000	116 ± 6	38	36
	425		35°N	55	74,000	205 ± 4	14	36
	426		41°N	55	500,000	458 ± 7	---	21
--- RN	431		22°N	64.6	23,000	107 ± 3	9.9	45
	432		33°N	66.2	30,000	218 ± 3	5.2	94
	433		33°N	67.5	42,000	199 ± 6	9.3	97
	434		22°N	69.5	28,000	159 ± 3	8.4	> 100
--- RS	435		13°N	54.5	400	3 ± 1	---	long
	436		8°N	54.5	1,100	3 ± 1	---	long
	437		2°N	55	740	1.9 ± 0.1	---	long
	438		3°S	55	290	1.9 ± 0.1	---	long

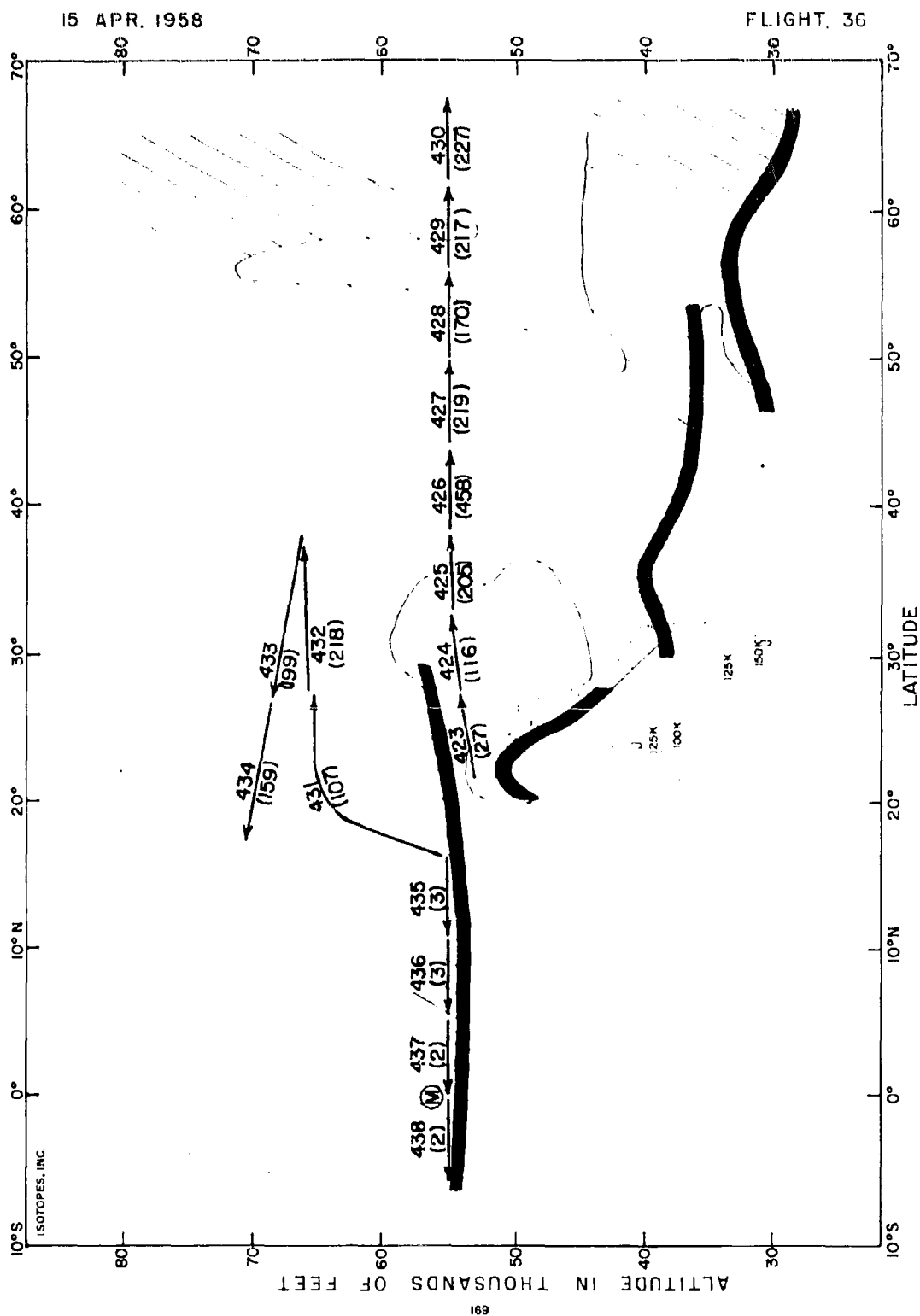


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	β T 1/2
				Total Beta	Sr ⁹⁰		
25 April 1958 Mission 38							
717 PN	447	47°N	55	71,000	124 + 3	38	55
	448	53°N	55	50,000	120 ± 4	40	44
	450	48°N	63.6	14,400	108 ± 1	10	>100
716 PS	443	42°N	55	55,000	103 + 3	38	45
	444	37°N	55	32,000	67 ± 2	37	48
	445	31°N	55	7,200	15 ± 1	30	43
	446	26°N	54.7	5,900	15 ± 1	31	42
--- RN	455	22°N	65	31,000	87 + 4	29	59
	456	33°N	66.5	11,700	100 ± 3	5.0	>100
	457	33°N	67.5	12,900	118 ± 4	3.8	100
	458	22°N	68.8	37,000	134 ± 1	18	47
--- RS	451	11°N	55.6	1,950	7 + 1	36	41
	452	2°S	55.2	185	3 ± 1	19	long
	453	1°S	61	4,000	25 ± 1	5.7	59
	454	10°N	62.2	64,000	122 ± 2	41	46

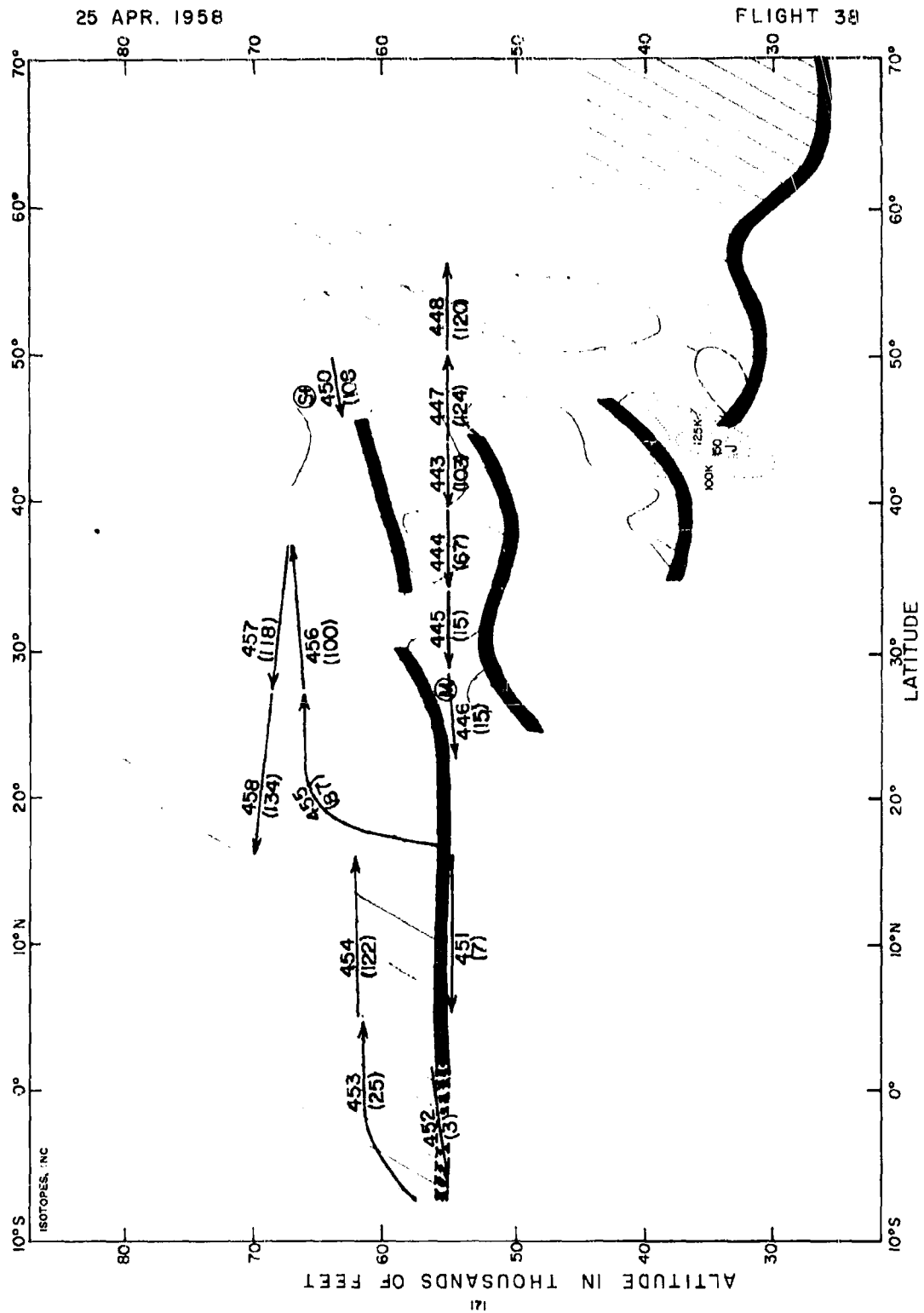


FIGURE 4.36 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁹⁰	Sr ⁸⁹ /Sr ⁹⁰	β T 1/2
				Total Beta				
2 May 1958 Mission 39								
717 PN	459	47°N	55	85,000		176 + 2	30	38
	460	53°N	55	77,000		176 ± 1	29	40
	461	59°N	55	82,000		221 ± 7	28	46
	462	64°N	55	101,000		231 ± 3	32	42
716 FS	463	41°N	55	91,000		182 + 5	38	41
	464	35°N	55	63,000		147 ± 4	31	42
	465	29°N	55	58,000		141 ± 3	35	48
	466	24°N	55	36,000		94 ± 3	25	44
--- RN	467	22°N	65.5	29,000		118 + 3	17	68
	468	33°N	67	12,200		156 ± 3	---	79
	469	33°N	68	9,400		91 ± 2	4.0	> 100
	470	22°N	69.5	24,000		151 ± 4	9.5	> 100
--- RS	471	10°N	55	2,600		3 + 1	54	64
	472	1°S	54	≤ 174		3 ± 1	---	long
	473	1°S	59	2,100		19 ± 1	12	76
	474	10°N	60	44,000		110 ± 2	36	43

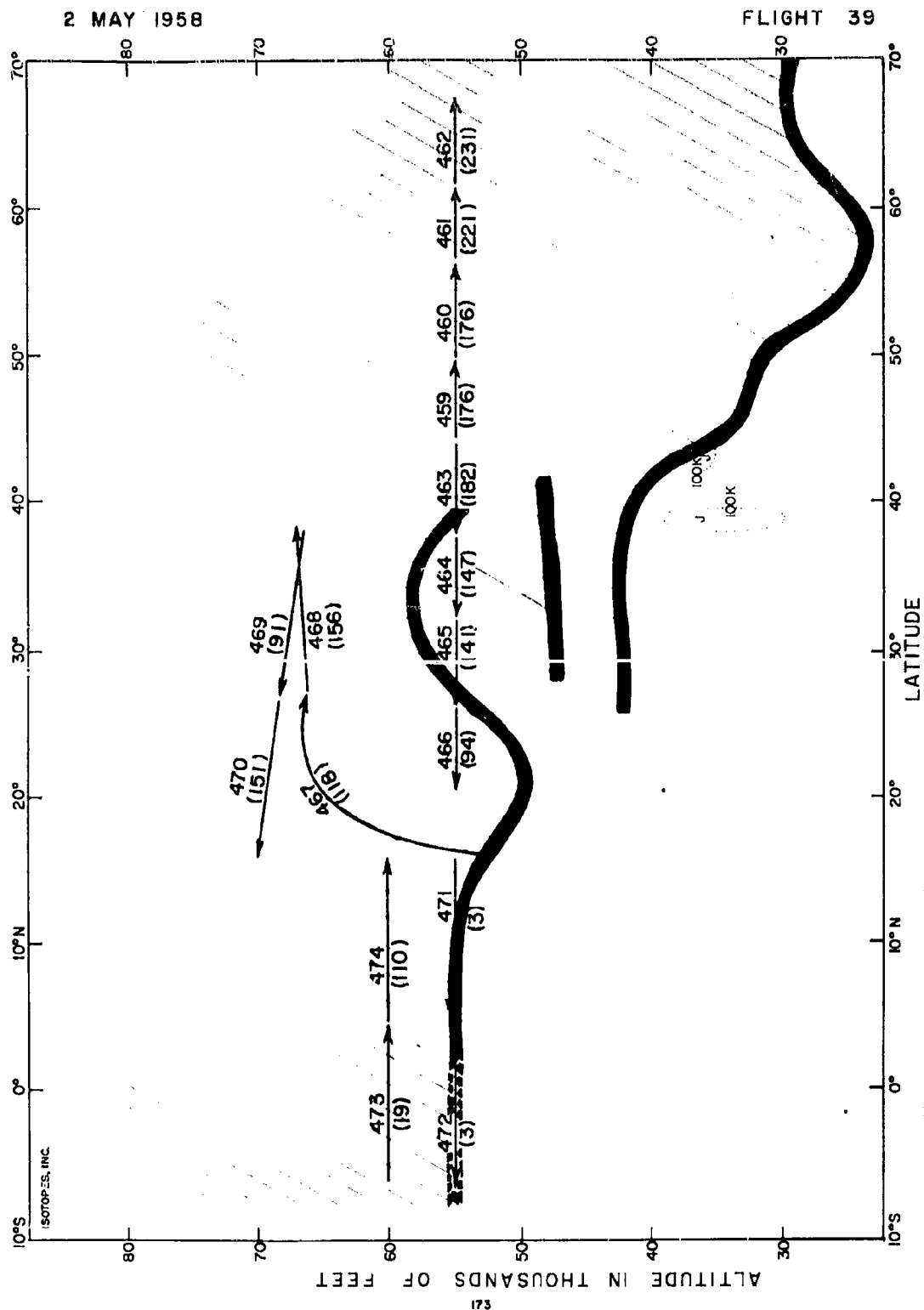


FIGURE 4.37 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr 89/Sr 90	Ce 144/Sr 90	βT 1/2
				Total Beta	Sr 90			
6 May 1958 Mission 40								
717 PN	475	47°N	55	158,000	275 ± 7	54	24	37
	476	53°N	55	174,000	328 ± 8	---	16	42
	477	59°N	55	112,000	244 ± 7	---	38	59
	478	64°N	55.7	61,000	126 ± 4	40	23	49
716 PS	479	42°N	55	72,000	129 ± 4	51	36	40
	480	37°N	55	48,000	64 ± 1	63	55	48
	481	31°N	55	15,400	42 ± 2	29	26	52
	482	25°N	55	7,100	18 ± 1	25	32	64
--- RN	483	22°N	65.3	40,000	148 ± 3	22	---	46
	484	32°N	65.9	39,000	171 ± 4	19	---	45
	485	32°N	67.2	28,000	116 ± 3	17	---	41
	486	21°N	69.4	26,000	146 ± 4	5.9	---	60
--- RS	487	10°N	55	660	4 ± 1	33	---	long
	488	0°S	55	7,200	1.5 ± 0.2	143	---	12
	489	0°N	59.5	5,700	20 ± 1	17	---	43
	490	11°N	60.5	24,000	60 ± 2	29	---	44

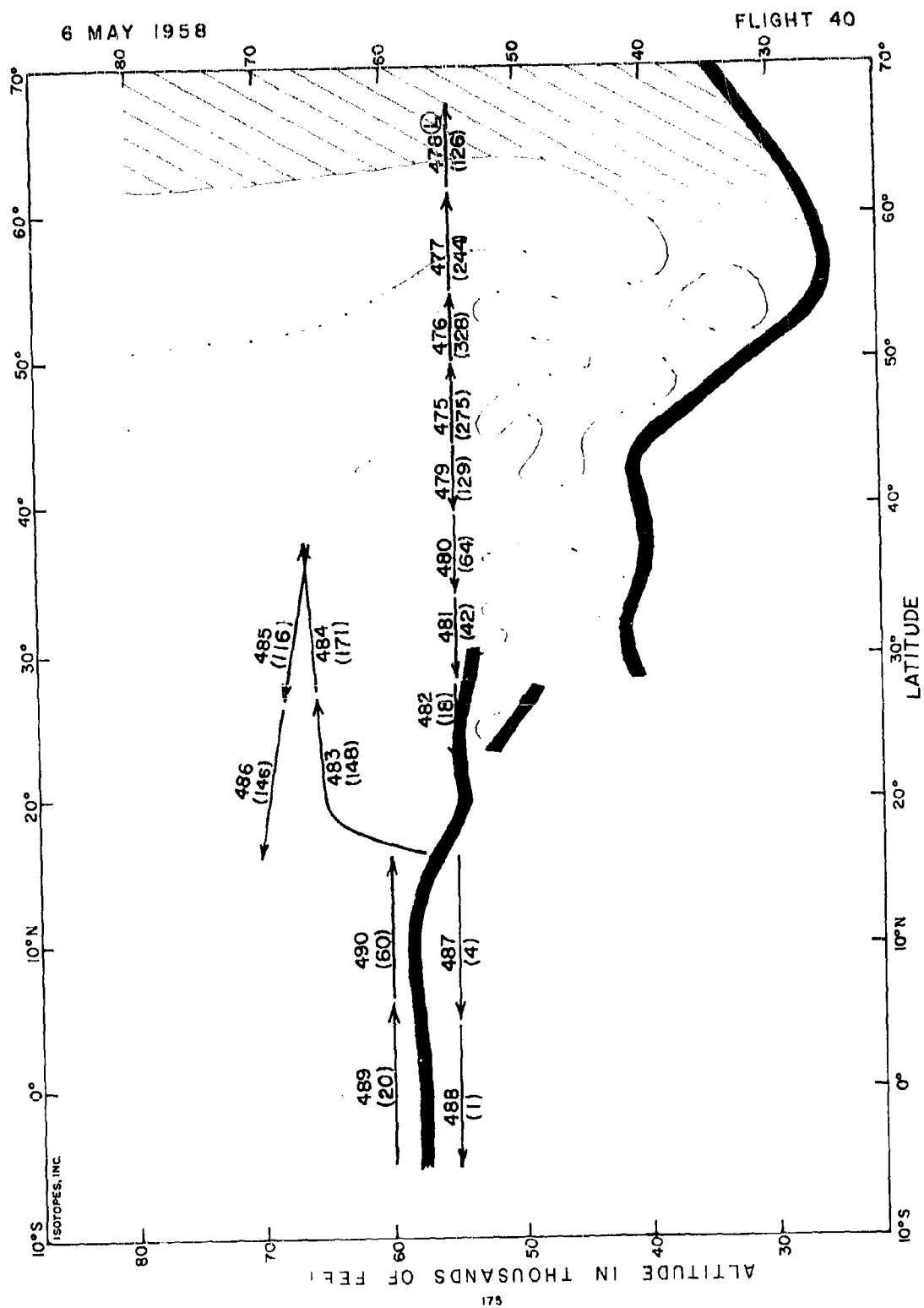


FIGURE 4.38 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		W185 (Aug 58)	Sr89/Sr90	β T 1/2
				Total Beta	Sr 90			
9 May 1958 Mission 41								
716 PS	503	42°N	45	31,000	79 + 3	---	30	44
	504	37°N	45	26,000	72 $\pm$ 2	---	22	36
	505	33°N	45	8,700	34 $\pm$ 2	---	17	59
	506	28°N	45	<u>< 460</u>	1.7 $\pm$ 0.2	---	---	long
717 PS	499	41°N	55	64,000	133 + 4	---	37	35
	500	36°N	55	50,000	121 $\pm$ 3	---	28	32
	501	29°N	55	72,000	203 $\pm$ 5	45 + 1	33	37
	502	23°N	55	31,000	63 $\pm$ 2	---	30	41
--- RN	495	19°N	59	29,000	66 + 3	---	29	33
	496	24°N	59.5	72,000	153 $\pm$ 7	---	36	41
	497	30°N	60	82,000	166 $\pm$ 4	---	37	42
	498	36°N	60	84,000	169 $\pm$ 5	---	39	36
--- RN	491	19°N	62.6	65,000	179 + 8	---	27	39
	492	25°N	62.7	41,000	122 $\pm$ 19	---	16	62
	493	30°N	64	17,300	132 $\pm$ 5	---	8.0	70
	494	36°N	64.4	14,500	99 $\pm$ 4	---	5.1	90

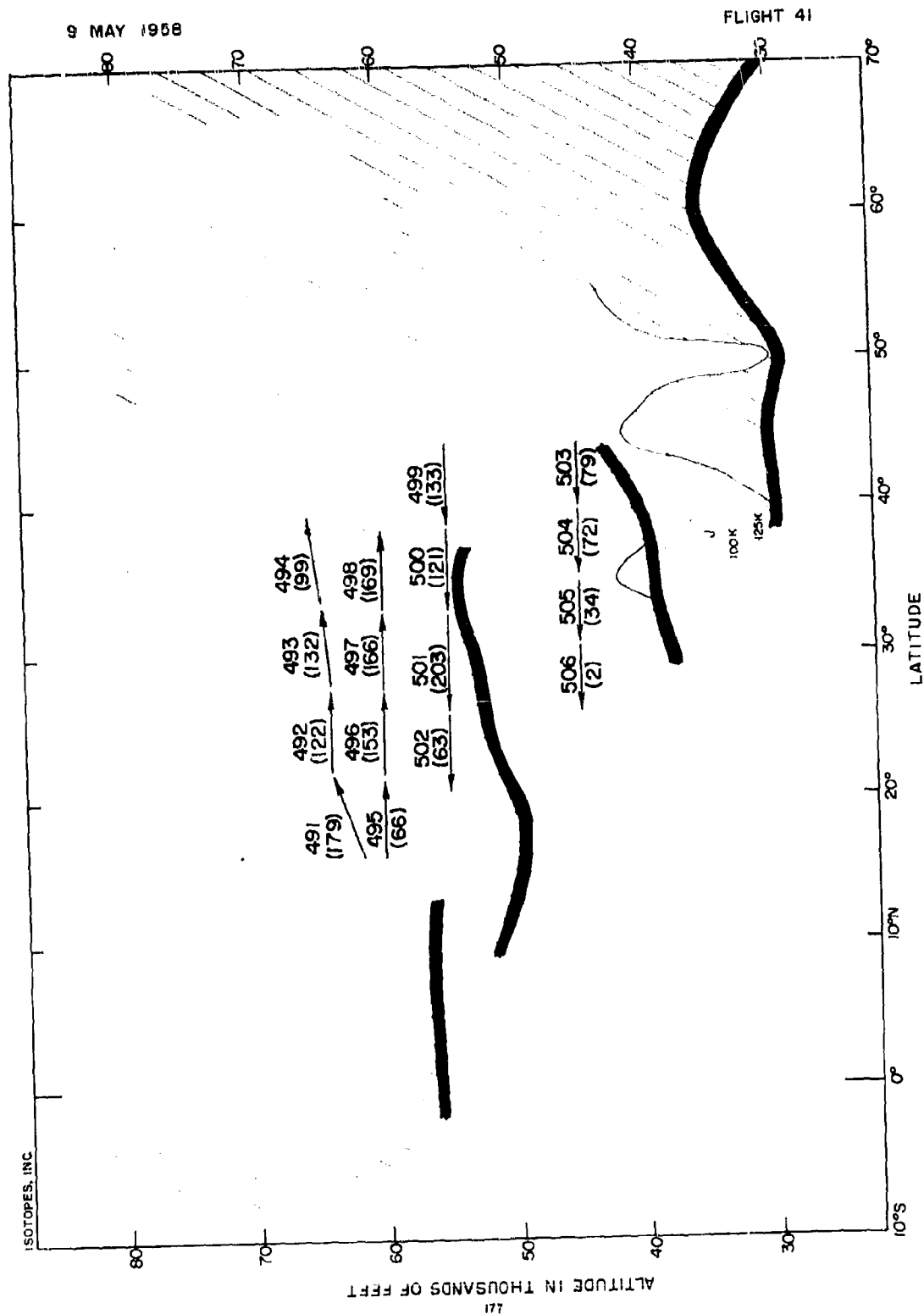


FIGURE 4.39 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	β T 1/2
				Total	W 185 (Aug 58)			
				Beta	Sr ⁹⁰			
24 May 1958 Mission 42								
718	507	47°N	55	95,000	169 + 4	885 + 24	---	37
PN	508	52°N	55	154,000	216 ± 4	Impure	---	30
	509	58°N	55	119,000	211 ± 5	Impure	---	42
	510	64°N	55	127,000	211 ± 5	57 + 3	0.4	35
716	511	41°N	55	159,000	221 + 7	Impure	0.4	37
PS	512	36°N	55	122,000	129 ± 4	Impure	---	40
	513	30°N	55	191,000	108 ± 3	22500 + 200	1.0	31
705	519	10°N	55	42,000	19 + 1	1473 + 12	---	23
	520	1°S	55	25,000	12 ± 1	1400 ± 32	---	38
	521	1°S	60	18,900	29 ± 1	57 ± 1	---	25
	522	10°N	61	93,000	156 ± 5	91 ± 1	---	27

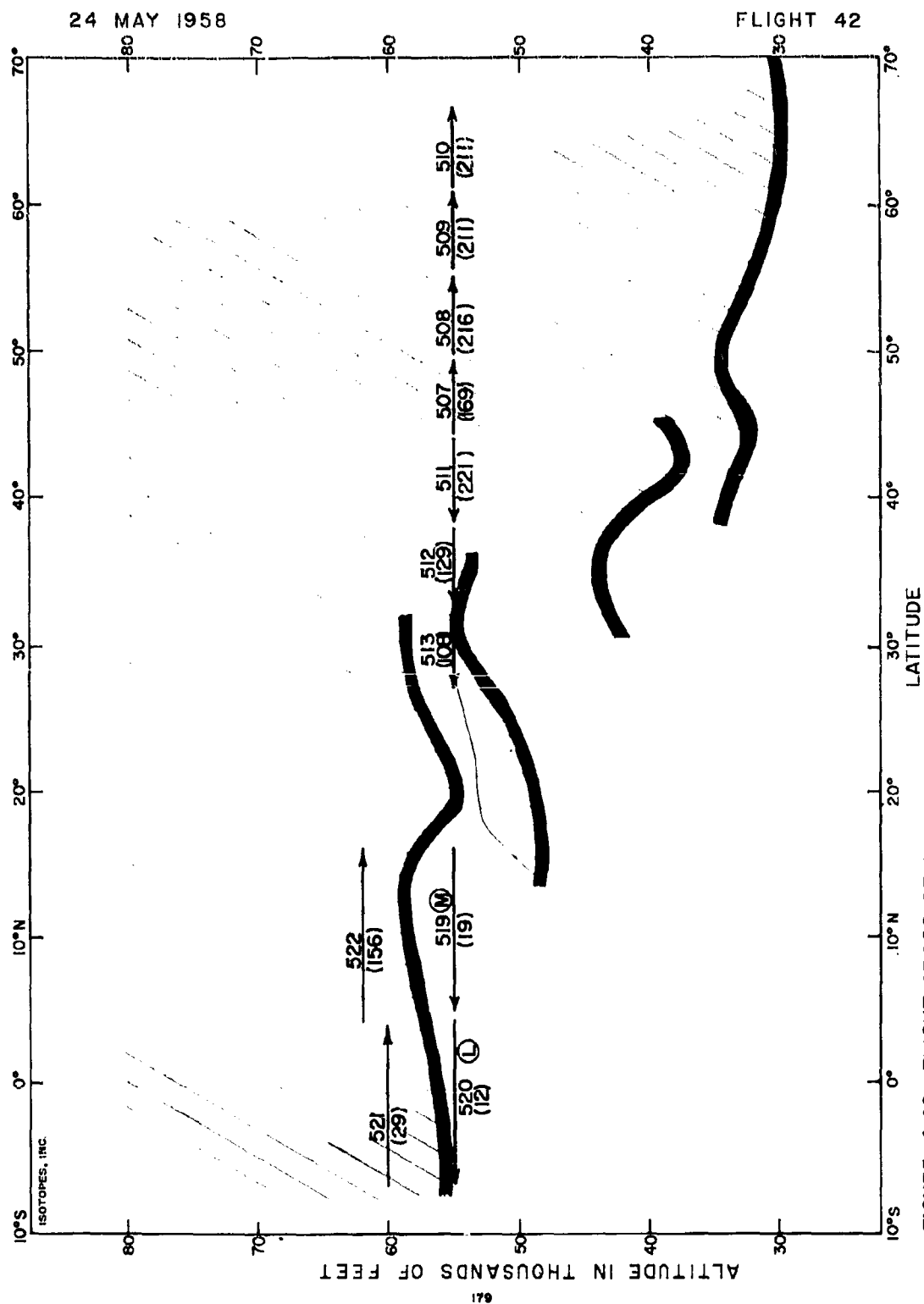


FIGURE 4.40 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.*	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁹⁰	w ¹⁸⁵ (Aug 58)	Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	BT 1/2
				Total	Beta					
29 May 1958 Mission 43										
714	523	18°N	61	125,000		107 ± 5	4780 ± 110	40	---	31
RN										
705	524	10°N	55	184,000		23 ± 1	33800 ± 200	144	---	28
RS	525	10°N	59	78,000		160 ± 1	233 ± 10	24	---	53

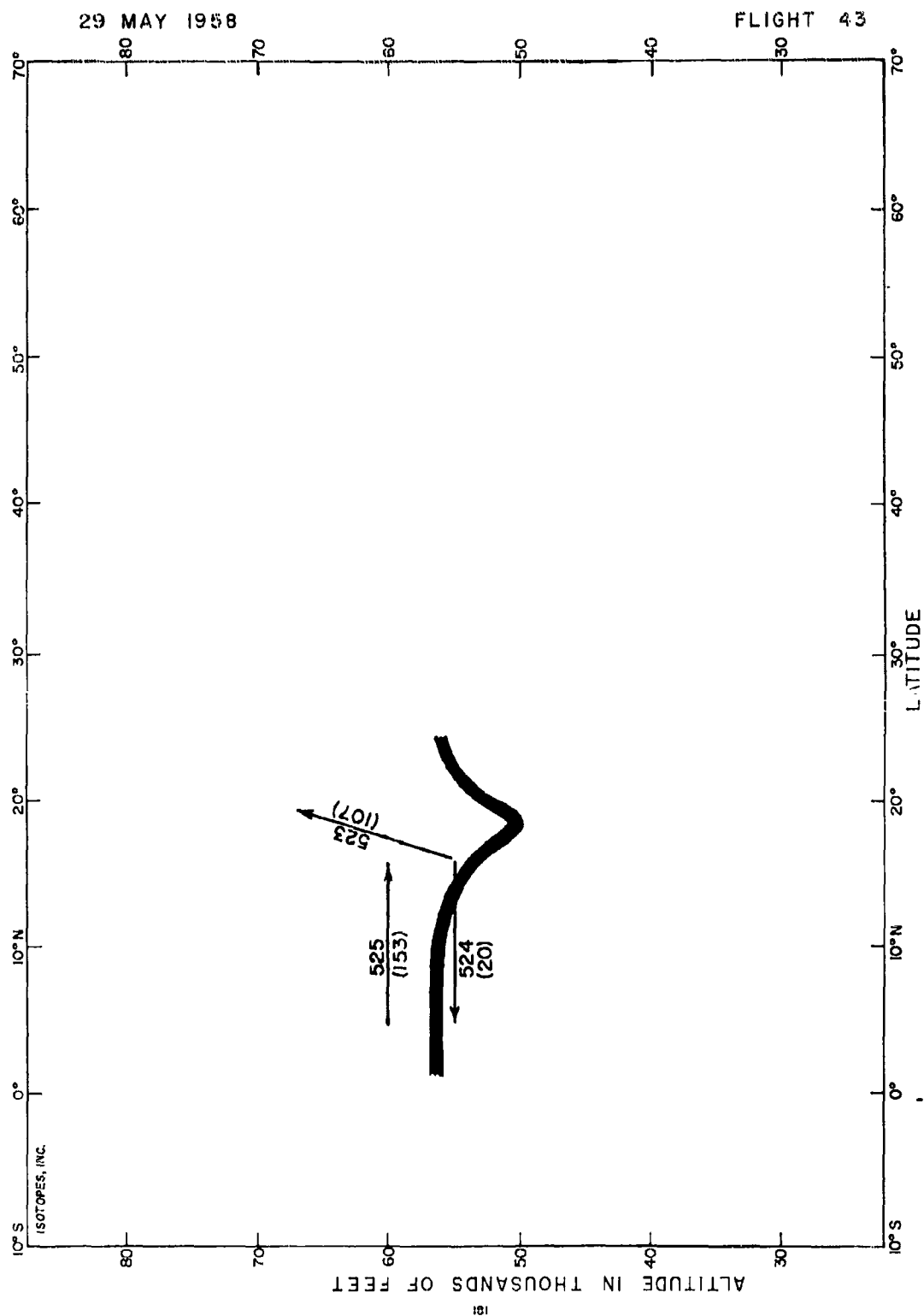


FIGURE 4.41 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr 90	W 185 (Aug 58)	Sr 89/Sr 90	Ba 140/Sr 89	β T 1/2
				Total	Beta					
3 June 1958 Mission 54										
715	526	19°N	45.6	910		1.6 ± 2	109 ± 2	73	---	long
RO	527	18°N	56	78,000		48 ± 1	18300 ± 100	57	---	55
	528	18°N	63.2	86,000		174 ± 5	148 ± 7	29	---	50
	529	18°N	67.5	73,000		211 ± 5	122 ± 3	12	---	45

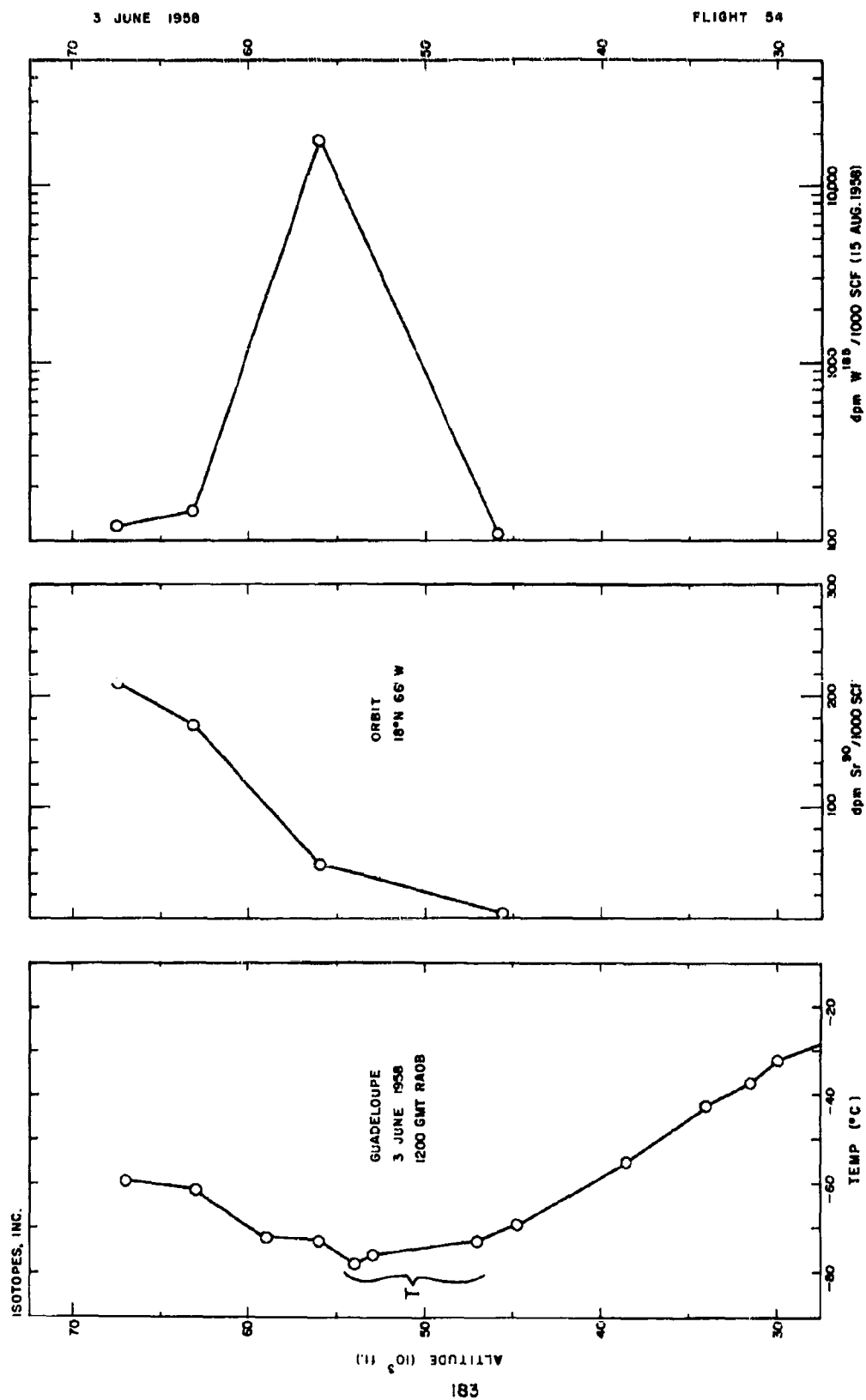


FIGURE 4.42 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁹⁰	Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	p T 1/2
				Total	Beta				
6 June 1958 Mission 55									
714	530	18°N	46						
RO	531	19°N	57	1,830		5 + 1	26	---	54
				123,000		77 ± 3	56	---	50
							121 + 1		
							28500 ± 200		
715	532	19°N	63	71,000		115 ± 3	26	---	43
RO	533	19°N	67.3	75,000		159 ± 4	21	---	50
							84 + 1		
							95 ± 2		

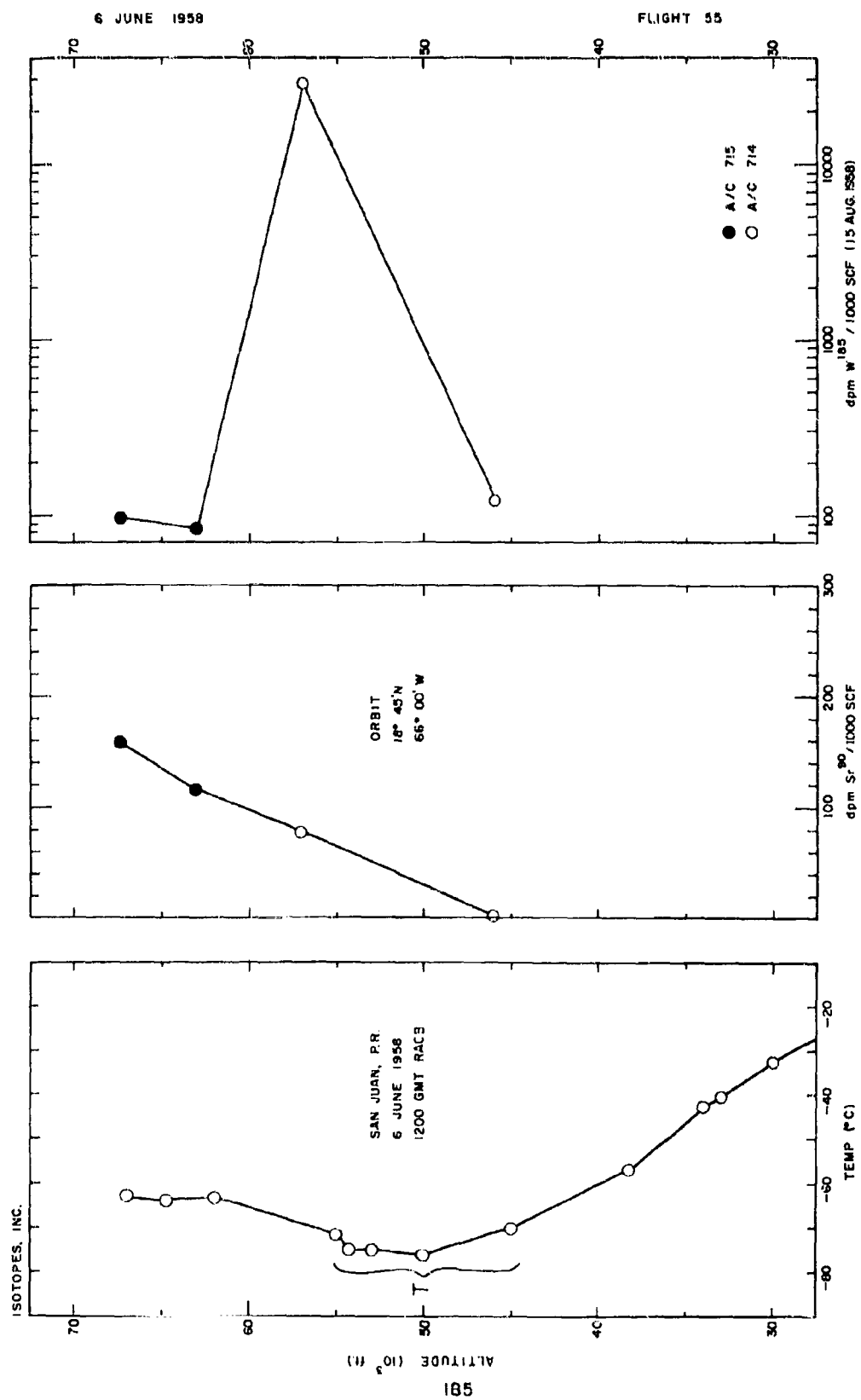


FIGURE 4.43 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr 90	Sr 89/Sr 90	Ba 140/Sr 89	σ T 1/2
				Total Beta	W ¹⁸⁵ (Aug 58)				
10 June 1958 Mission 56									
714	534	19°N	45	750	73 ± 1	0.7 ± 0.1	44	1.8	long
RO	535	19°N	55.5	178,000	42900 ± 5000	75 ± 2	59	0.7	63
705	536	19°N	63	120,000	1320 ± 36	131 ± 4	36	0.8	40
RO	537	19°N	66	43,000	374 ± 11	116 ± 4	19	0.3	55

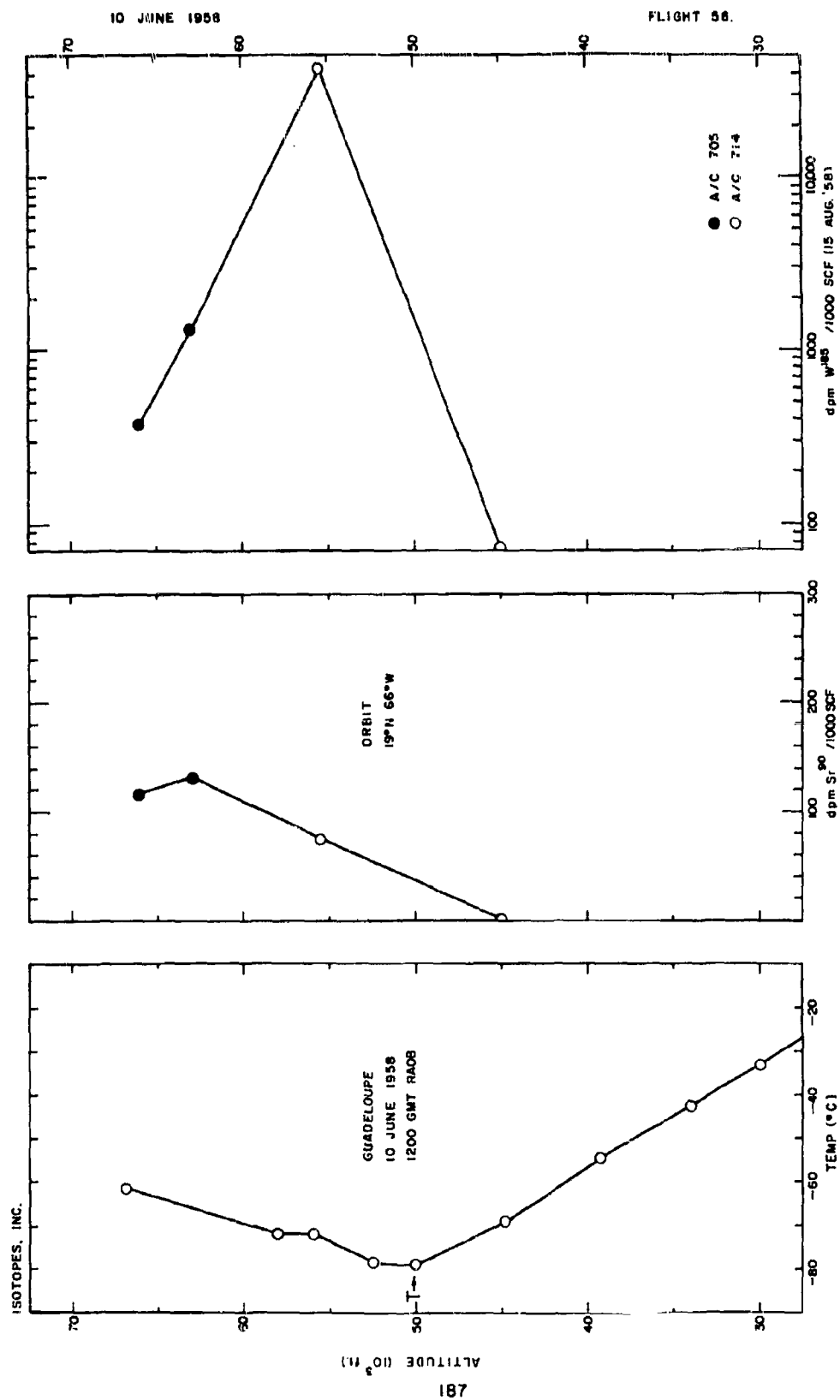


FIGURE 4.44 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	β T 1/2
				Total Beta	Sr ⁹⁰			
13 June 1958 Mission 57								
715 RO	538	18°N	45.6	8,100	16 ± 1	425 ± 2	0.8	50
	539	18°N	55.5	93,000	184 ± 5	3860 ± 50	0.2	68
714 RO	540	19°N	63.6	58,000	115 ± 3	272 ± 10	0.4	48
	541	19°N	69.5	54,000	171 ± 5	62 ± 1	0.2	60

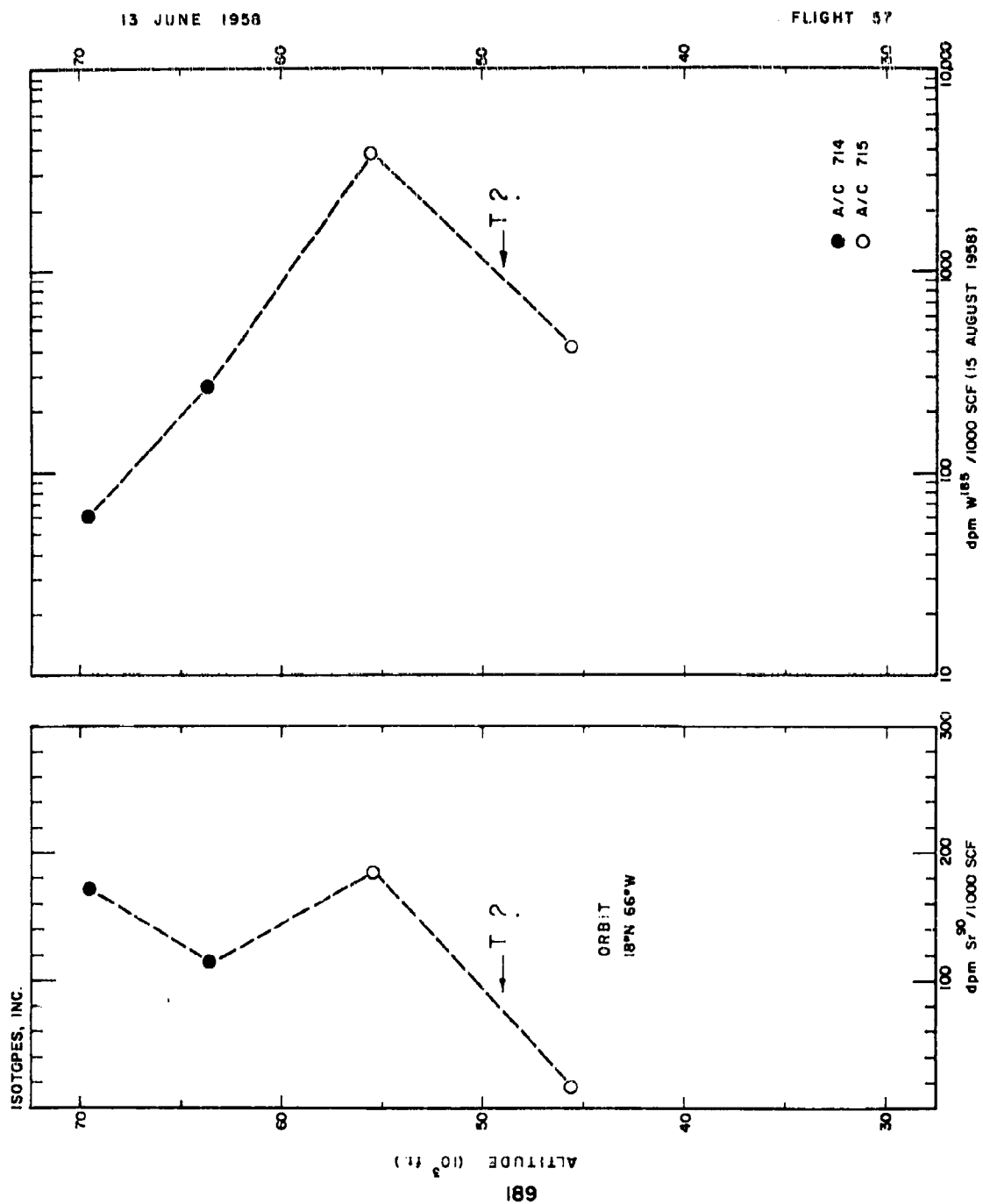


FIGURE 4.45 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr 90	Sr 89/Sr 90	Ba 140/Sr 89	β T 1/2
				Total	Beta				
17 June 1958 Mission 60A									
714 RO	542	19°N	46	2,300		1.7 ± 0.1			
	543	19°N	54	43,000		34 ± 1	311 ± 2	1.1	41
	544	19°N	57	170,000		56 ± 2	9050 ± 50	0.5	62
	545	19°N	60	72,000		85 ± 2	48800 ± 300	0.6	60
705 RO	546	19°N	62	42,000		98 ± 3	8970 ± 70	0.3	62
	547	19°N	64	67,000		149 ± 3	92 ± 1	0.3	66
	548	19°N	66	93,000		173 ± 3	987 ± 8	0.2	66
	549	19°N	67.8	90,000		186 ± 5	519 ± 10	0.5	54
							278 ± 4	0.8	42

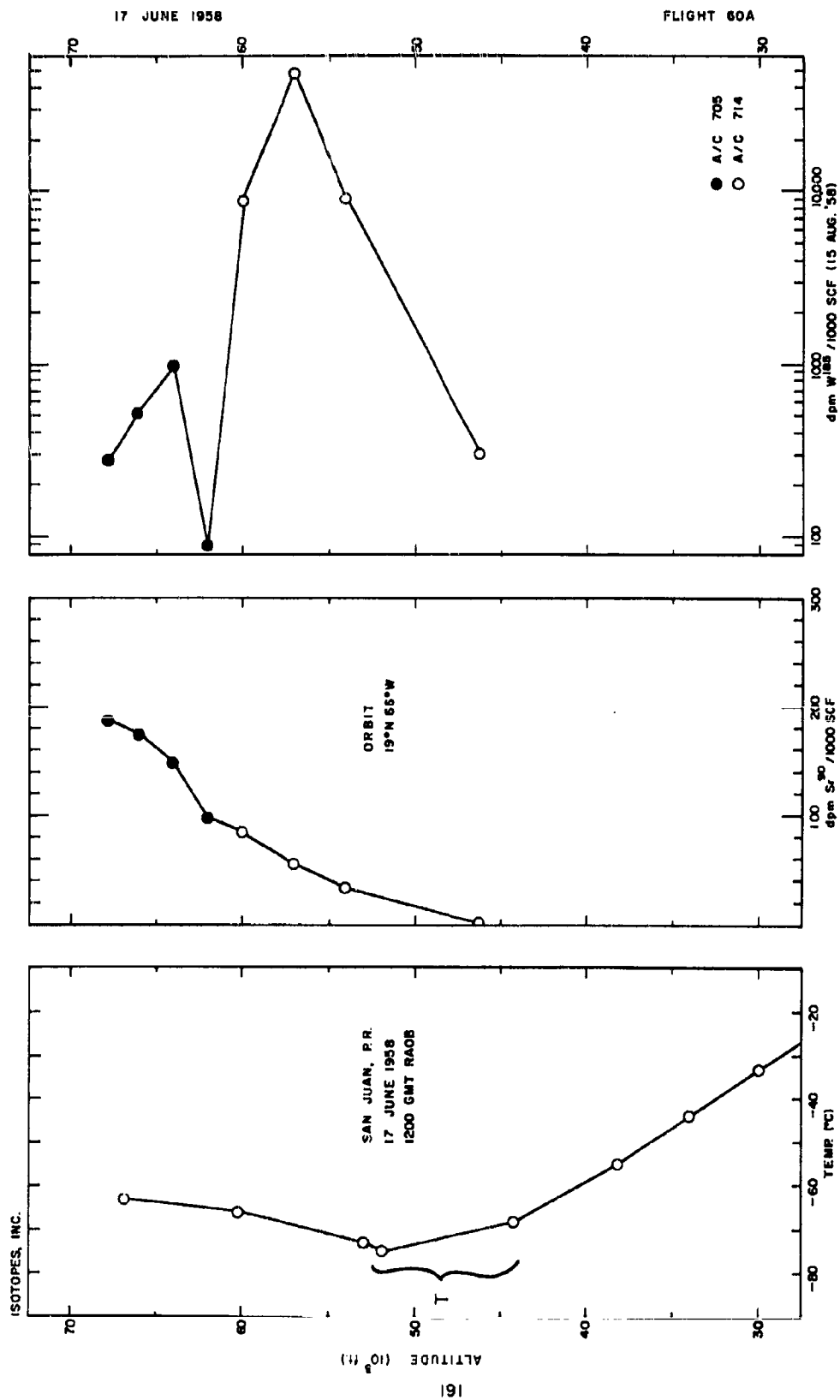


FIGURE 4.46 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/100) SCF		W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	β T 1/2
				Total Beta	Sr ⁹⁰				
20 June 1958 Mission 60B									
705 RO	550	19°N	45.1	10,900	19 ± 1	575 ± 16	27	0.6	52
	551	19°N	53.3	47,000	37 ± 1	9750 ± 80	50	0.4	53
	552	19°N	56.1	96,000	127 ± 3	15320 ± 80	27	0.3	55
	553	19°N	59	67,000	100 ± 1	390 ± 27	23	0.3	52
714 RO	554	18°N	63.6	69,000	142 ± 1	8440 ± 80	53	---	53
	555	18°N	65.6	122,000	182 ± 2	4250 ± 80	23	0.3	46
	556	19°N	67.6	55,000	172 ± 6	2390 ± 140	17	0.2	57
	557	19°N	69	38,000	157 ± 5	220 ± 19	13	0.2	69

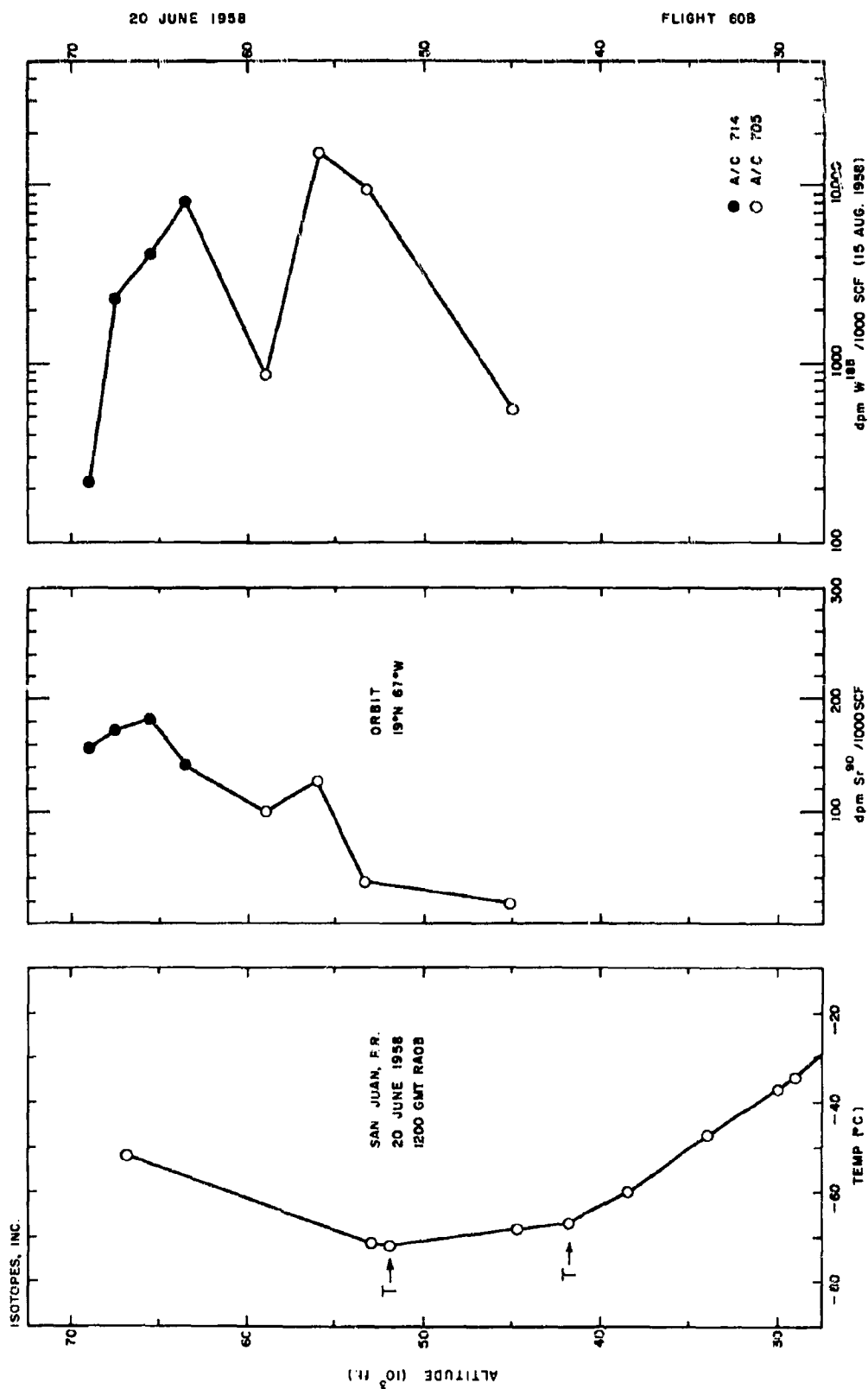


FIGURE 4.47 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁹⁰	w ¹⁸⁵ (Aug 58)	Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	β T 1/2
				Total Beta						
24 June 1958 Mission 61A										
714 RN	558	19°N	60	64,000		106 + 4	8220 + 100	26	0.6	50
	559	24°N	60	90,000		166 ± 4	10420 ± 100	26	0.4	62
	560	30°N	60	67,000		207 ± 3	2750 ± 60	20	0.2	38
	561	35°N	60	76,000		229 ± 5	386 ± 11	18	0.3	57
705 RS	562	13°N	60	71,000		75 + 3	12360 + 120	43	0.6	46
	563	8°N	60	270,000		120 ± 1	71400 ± 400	88	0.4	43
	564	2°N	60	137,500		94 ± 4	30900 ± 200	67	0.6	38
	565	4°S	60	71,000		70 ± 3	7670 ± 90	60	1.1	34

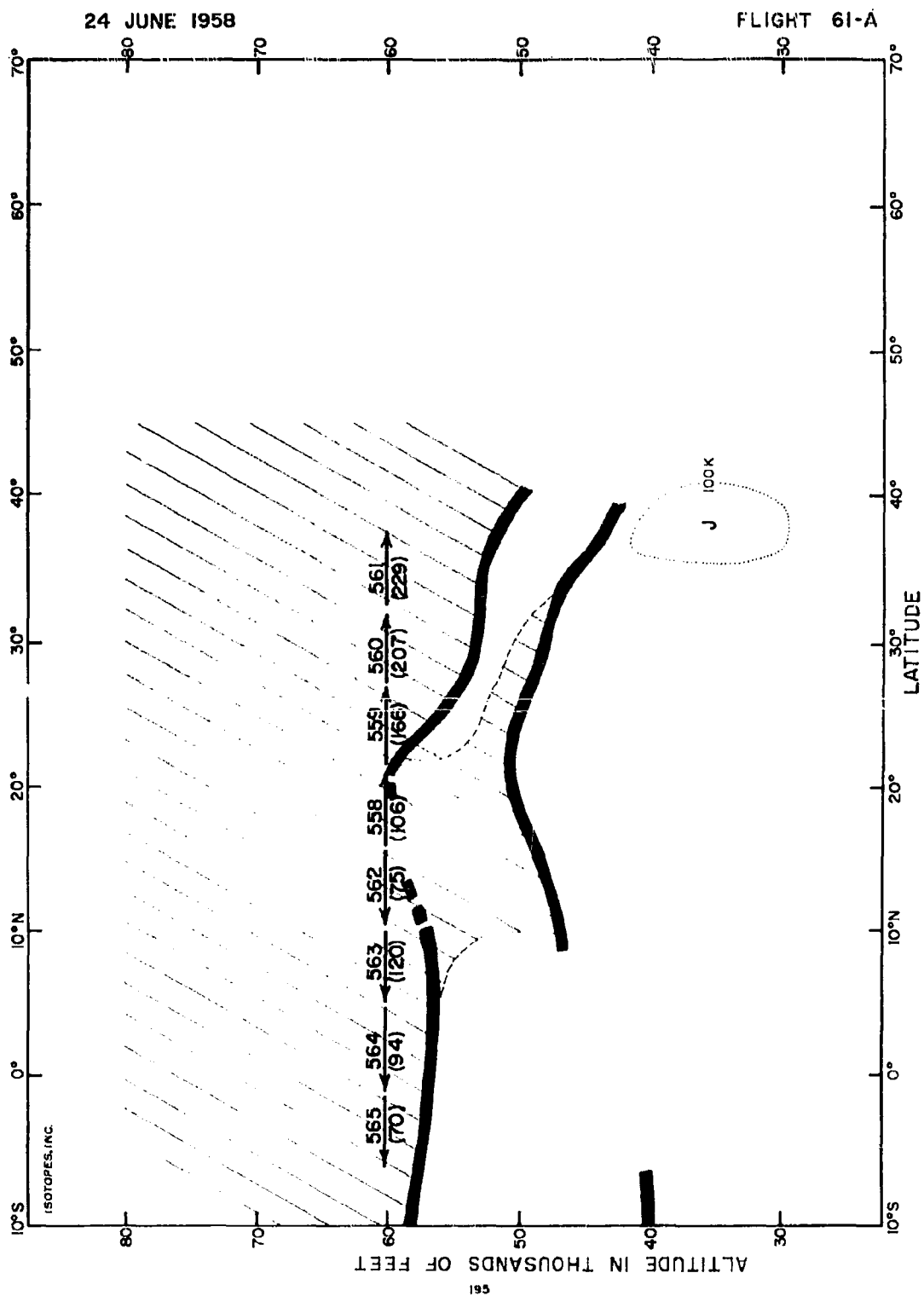


FIGURE 4.48 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	β T 1/2
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
28 June 1958 Mission 62									
714 RN	566	19°N	60	47,000	16 ± 4	3390 ± 60	33	0.6	37
	567	25°N	60.6	96,000	173 ± 5	15190 ± 170	24	0.2	39
	568	30°N	60.6	73,000	140 ± 3	6940 ± 120	25	0.3	47
	569	36°N	60.6	66,000	155 ± 4	4160 ± 90	22	0.2	46
715 RS	570	13°N	60.2	131,000	52 ± 2	12240 ± 130	61	0.4	33
	571	7°N	60.2	181,000	114 ± 1	35800 ± 300	66	0.4	40
	572	2°N	60.3	95,000	52 ± 2	6820 ± 120	--	---	30
	573	4°S	60.4	103,000	110 ± 2	7340 ± 130	47	0.6	38

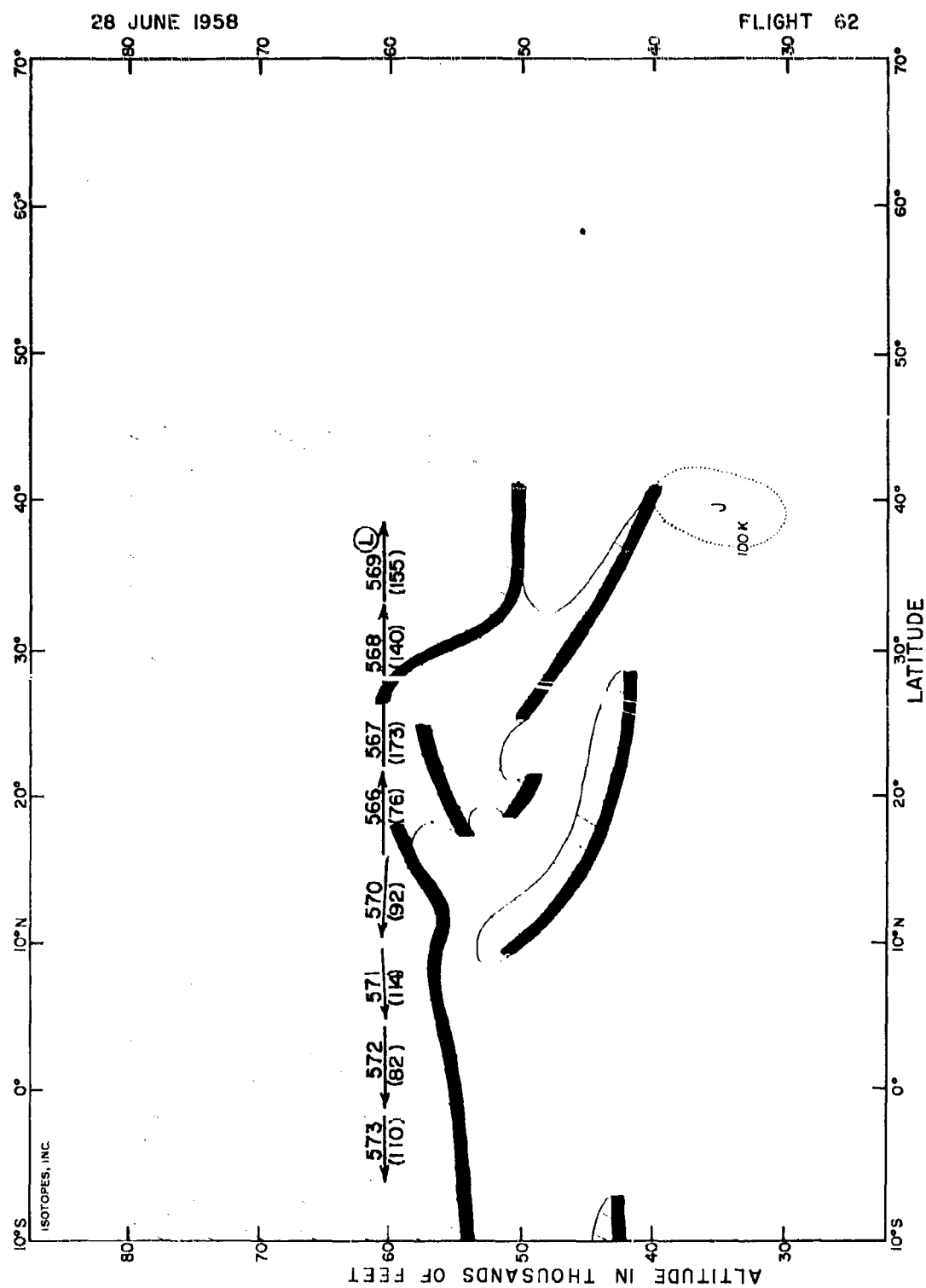


FIGURE 4.49 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr 90	Sr 89/Sr 90	Ba 140/Sr 89	β T i/2
				Total Beta	W 185 (Aug 58)				
1 July 1958 Mission 60C									
715 RO	574	18°N	44.6	1,790	1.8 + 0.1	145 + 5	37	0.8	55
	575	19°N	52	3,100	3 ± 1	15 ± 1	34	0.9	45
	576	19°N	55.8	11,000	24 ± 1	1604 ± 40	24	0.5	48
	577	19°N	59.2	38,000	80 ± 1	1103 ± 32	14	0.3	51
714 RO	578	18°N	63.6	70,000	209 + 15	424 + 14	19	0.1	46
	579	18°N	65.6	71,000	162 ± 6	65 ± 2	17	0.2	55
	580	19°N	67.6	178,000	227 ± 7	< 151	25	0.6	37
	581	19°N	69.8	116,000	232 ± 8	-38 ± 3	22	0.5	40

FLIGHT 60 C

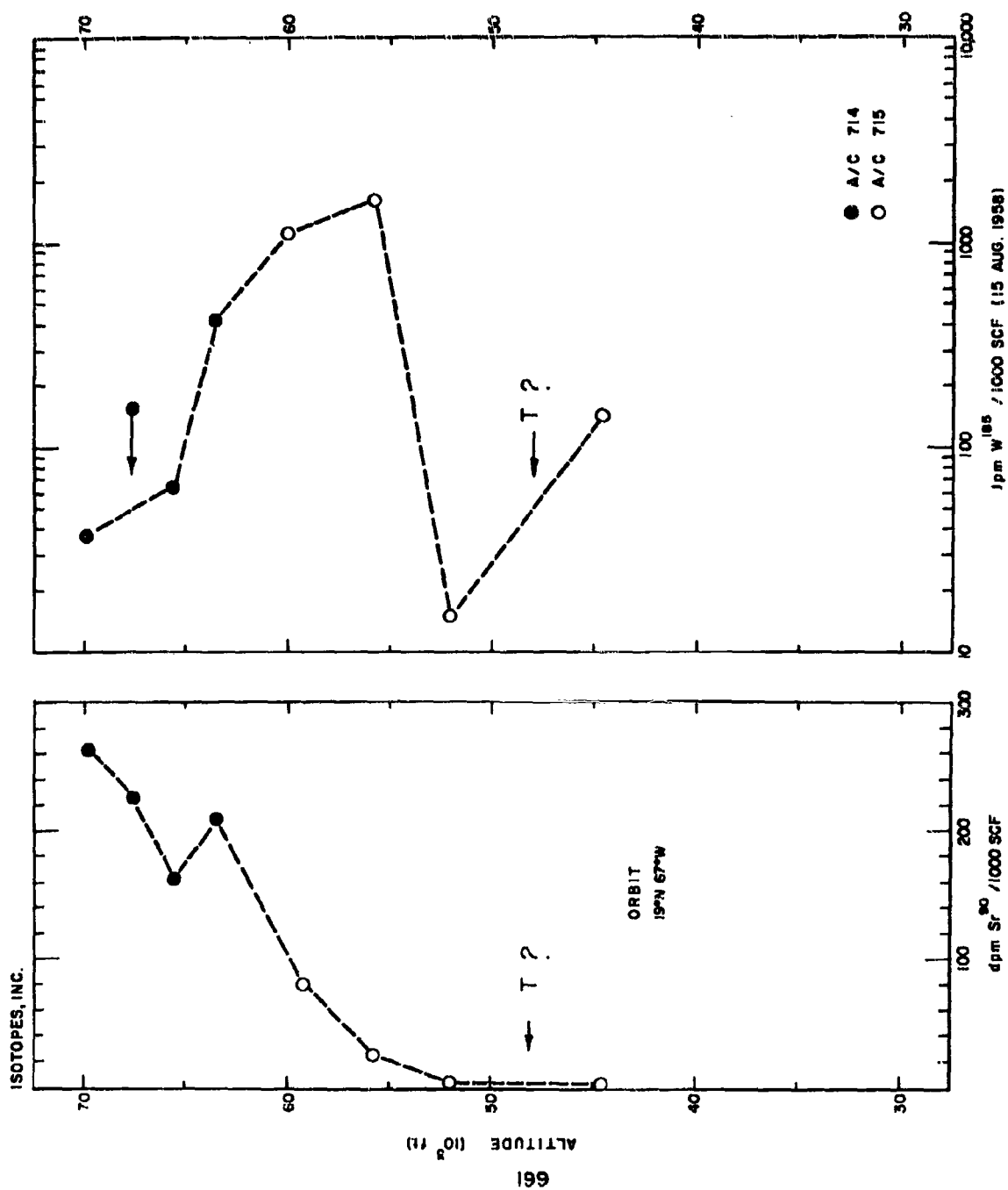


FIGURE 4.50 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF				Sr ⁸⁹ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹	β T 1/2
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
4 July 1958 Mission 61B										
715 RN	582	19°N	60.4	70,000	100 + 80	8360 + 80		29	0.3	40
	583	25°N	60.4	38,000	88 ± 3	973 ± 46		19	---	52
	584	30°N	60.4	56,000	133 ± 5	7170 ± 120		---	---	70
	585	36°N	60.4	64,000	157 ± 4	3690 ± 90		19	0.1	42
714 RS	586	13°N	60	73,000	96 ± 2	11100 ± 140		40	0.2	41
	587	8°N	60.3	92,000	73 ± 1	18090 ± 180		43	0.6	42
	588	2°N	60.6	107,000	68 ± 3	17110 ± 170		66	0.4	45
	589	4°S	60.6	74,000	84 ± 3	13480 ± 150		61	0.3	49

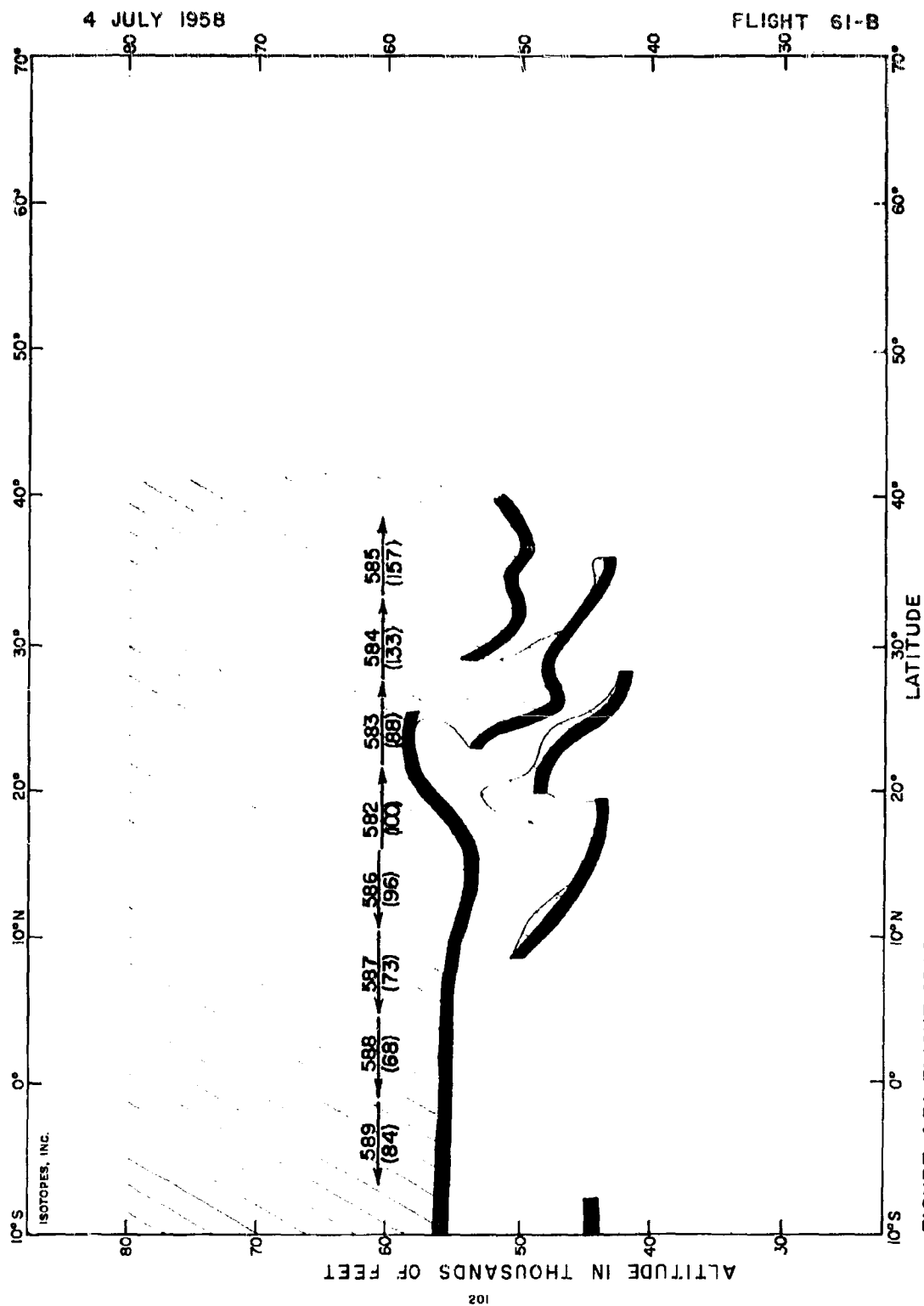


FIGURE 4.51 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/10,000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	βT 1/2
				Total Beta	W 185 (Aug 58)				
8 July 1958 Mission 60D									
705 RO	590	19°N	44.6	36,000	32 ± 1	623 ± 5	21	---	22
	591	19°N	53.2	19,000	22 ± 1	4910 ± 60	21	0.3	36
	592	19°N	59	1,050,000	500 ± 13	44600 ± 400	25	2.0	23
	593	18°N	56.1	282,000	171 ± 5	8030 ± 70	27	1.9	21
715 RO	594	19°N	63	51,000	148 ± 7	1627 ± 21	21	0.2	60
	595	19°N	64.6	51,000	180 ± 9	148 ± 2	---	---	52
	596	19°N	66.3	50,000	199 ± 5	Impure	18	0.2	53
	597	19°N	67.3	32,000	156 ± 5	Impure	13	0.2	52

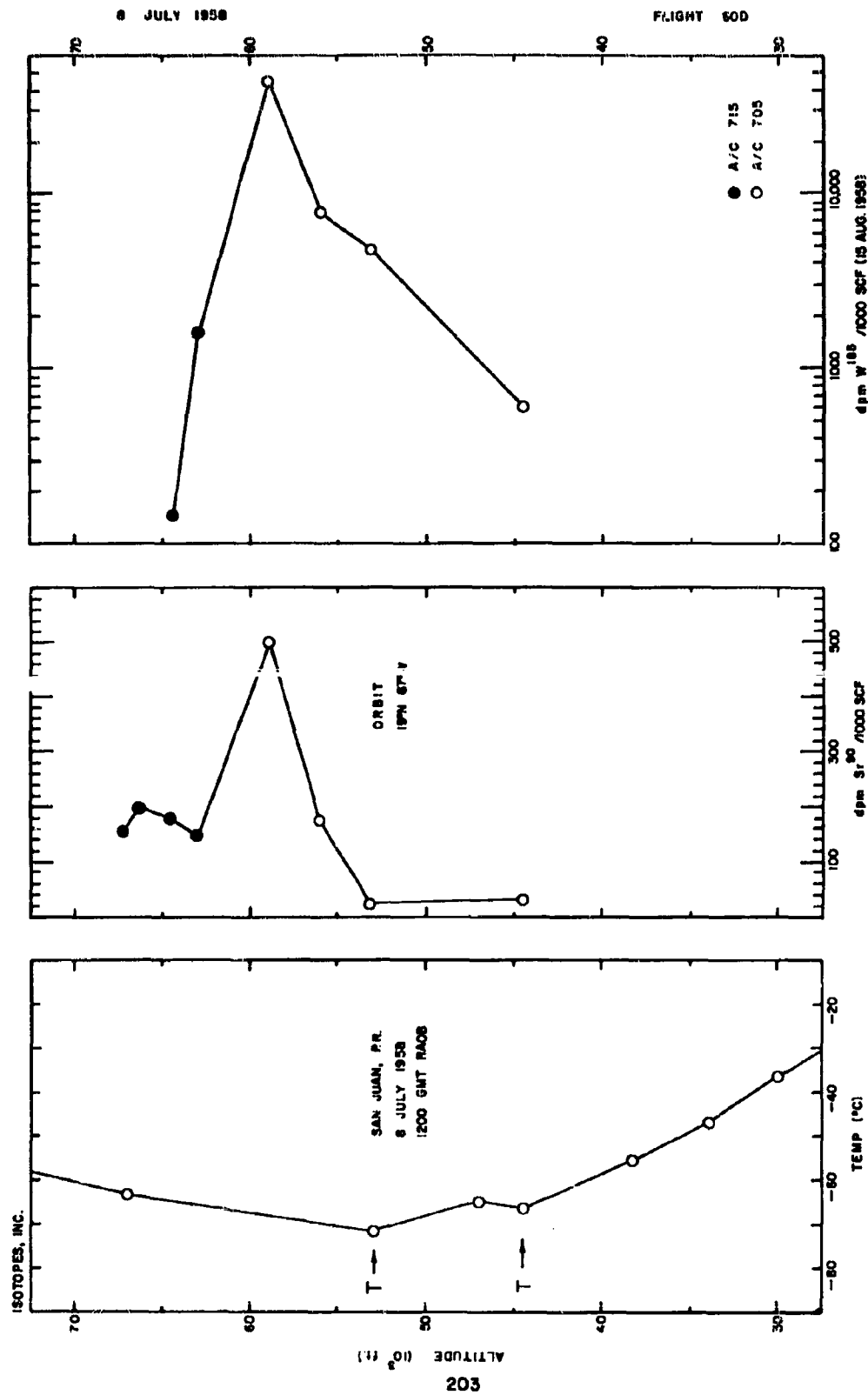


FIGURE 4.52 FLIGHT PROFILE

Table 4.3 (continued)

HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁹⁰	W185 (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T 1/2
			Total Beta							
12 September - 2 October 1958 Mission North Flight										
12 September 1958 961	73°N	65.9	2,800	74 ± 3	Too Low		0.9	---	---	> 100
17 September 1958 962	71°N	50	11,600	126 ± 6	2020 ± 60		8.6	---	---	> 100
19 September 1958 963	71°N	60	12,200	175 ± 4	≤ 40		1.7	---	---	> 100
27 September 1958 964	71°N	50	15,000	187 ± 6	1433 ± 34		6.1	---	---	> 100
24 September 1958 965	71°N	64.2	3,000	53 ± 8	≤ 29		---	---	---	> 100
27 September 1958 966	71°N	64.2	2,600	69 ± 3	132 ± 7		2.1	---	---	> 100
1 October 1958 967	71°N	60	5,300	150 ± 5	Impure		---	---	---	> 100
2 October 1958 968	72°N	50	1,450	116 ± 3	184 ± 14		---	---	---	> 100

NORTH FLIGHT

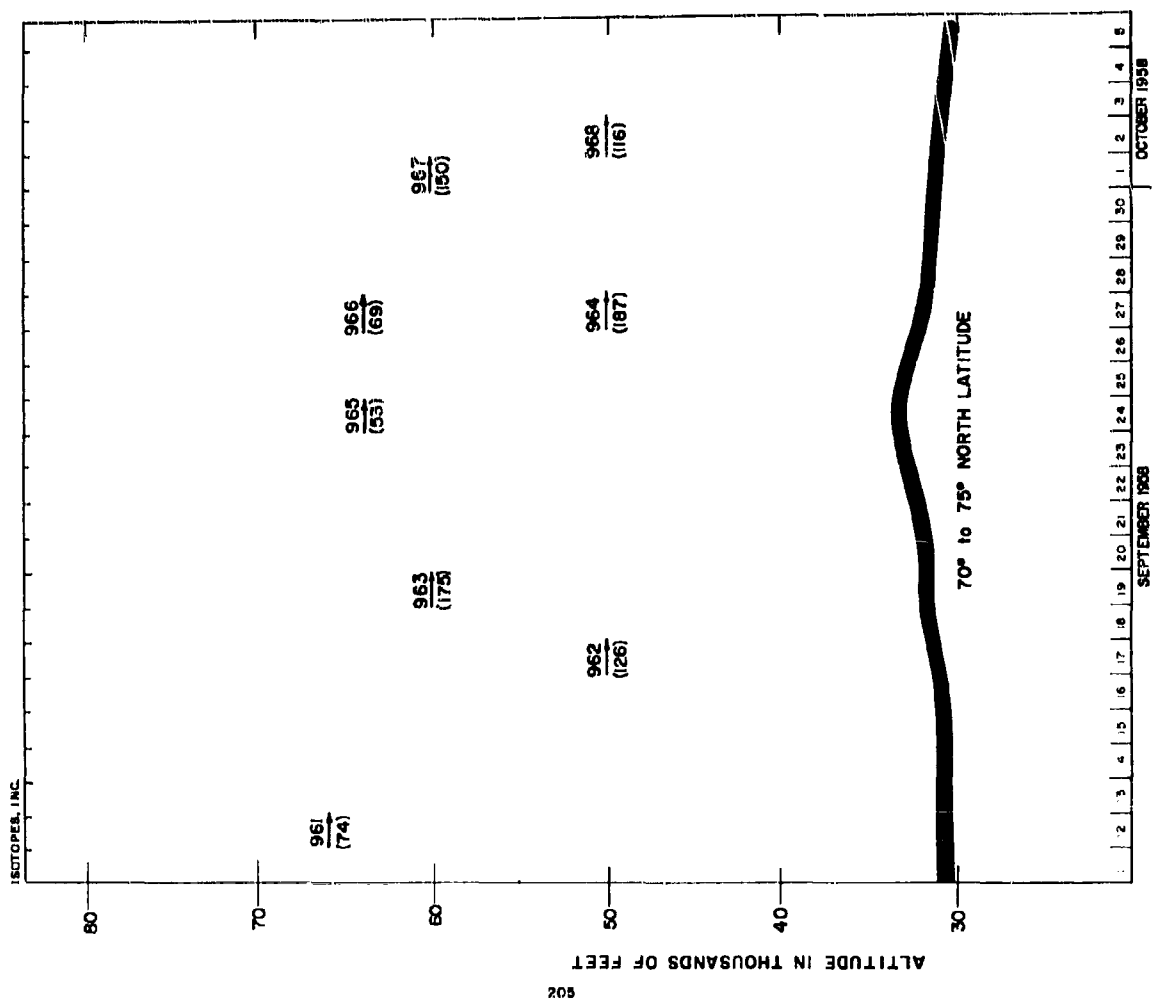


FIGURE 4.53

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/100) SCF					$\frac{Sr^{89}}{Sr^{90}}$	$\frac{Ce^{144}}{Sr^{90}}$	$\frac{Ba^{140}}{Sr^{89}}$	$\beta T_{1/2}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)						
12 September 1958 Mission 1												
718 F.E.	598	7°N	63	450,000	718 ± 18	93000 ± 800	63	---	---	0.2	36	
	599	1°N	64.3	290,000	599 ± 15	42600 ± 600	56	---	---	---	36	
	600	4°S	65.2	220,000	437 ± 16	21200 ± 400	55	---	---	---	50	
	601	10°S	65.8	107,000	271 ± 17	4610 ± 70	33	---	---	---	47	
716 F.E.	605	4°S	66	260,000	477 ± 19	19960 ± 360	72	---	---	0.1	48	
	602	10°S	67	150,000	427 ± 15	4280 ± 130	34	---	---	---	50	
	603	15°S	67	101,000	228 ± 9	768 ± 36	21	---	---	---	78	
	604	21°S	67	29,000	159 ± 4	332 ± 7	9.0	---	---	---	71	

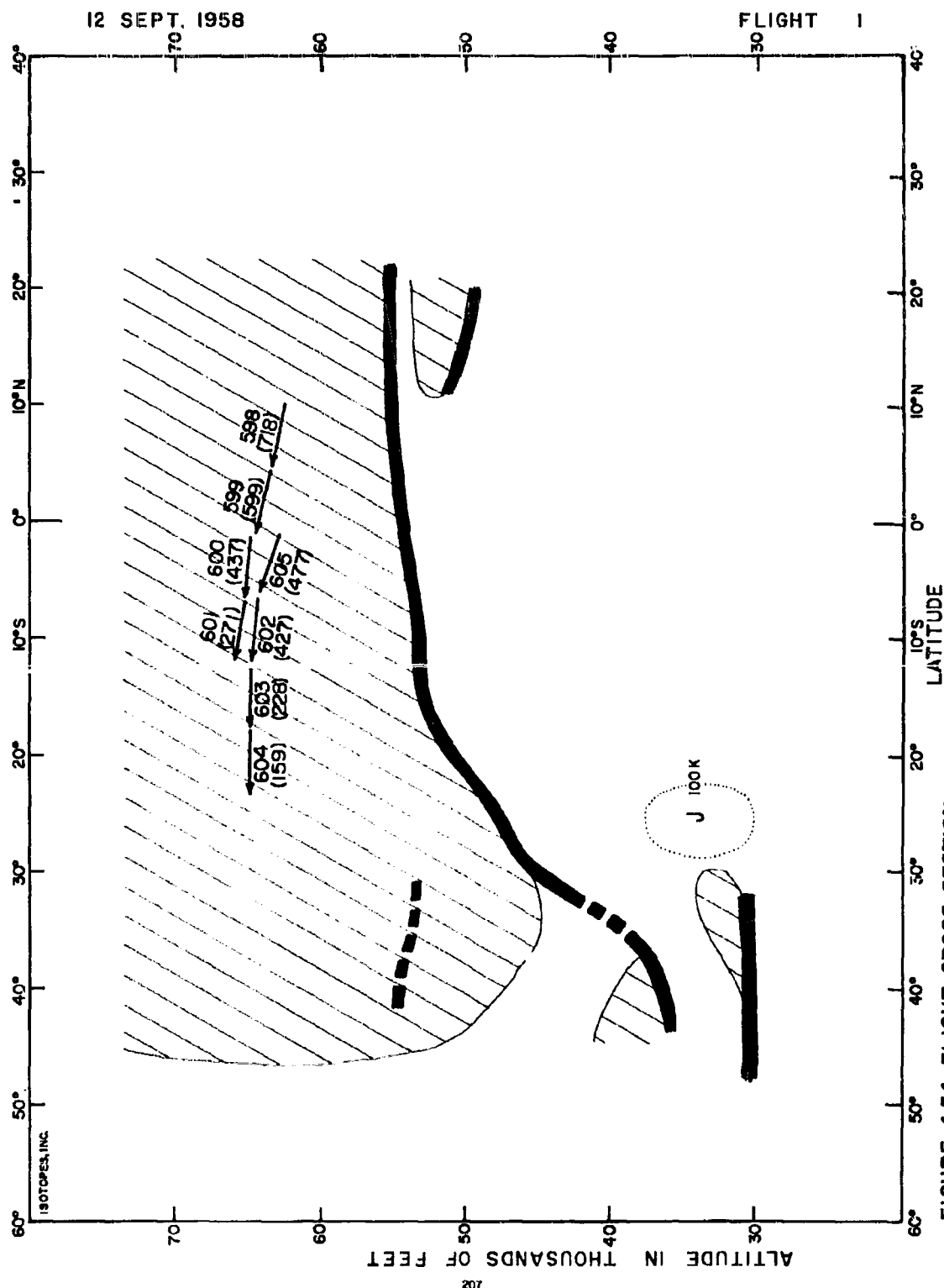


FIGURE 4.54 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/ 000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total	Beta	W ¹⁸⁵ (Aug 58)				
16 September 1958 Mission 2										
705	610	3°S	60	107,000		250 ± 9	28600 ± 300	43	---	55
RS	611	2°N	60	220,000		410 ± 9	68400 ± 800	50	---	51
	612	8°N	60	270,000		430 ± 11	64400 ± 600	48	---	53
	613	13°N	60	310,000		480 ± 10	109400 ± 800	49	0.2	58

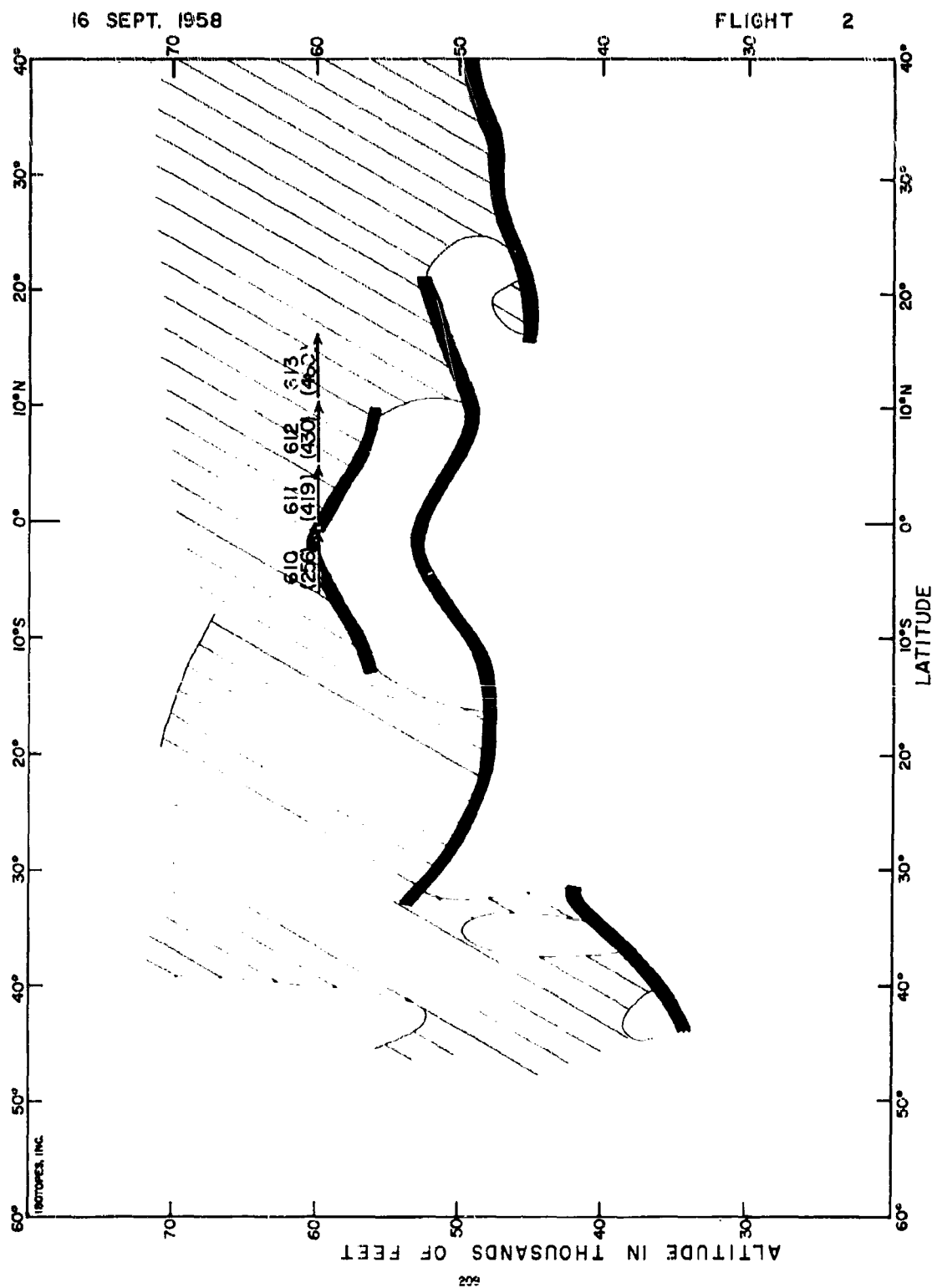


FIGURE 4.55 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	$\beta T_{1/2}$
					Sr 90	W 185 (Aug 58)				
19 September 1958 Mission 3A										
715	615	50S	60	175,000	286 $\pm$ 1	48800 $\pm$ 600	49	---	0.2	50
RS										
716	618	120S	60	65,000	291 $\pm$ 10	12670 $\pm$ 200	21	---	<0.1	53
EN	619	190S	60	7,200	50 $\pm$ 1	Impure	---	---	---	>100
	620	250S	60.5	7,200	98 $\pm$ 8	445 $\pm$ 15	---	---	---	85
	621	320S	60.5	7,900	84 $\pm$ 6	753 $\pm$ 25	3.7	---	---	>100

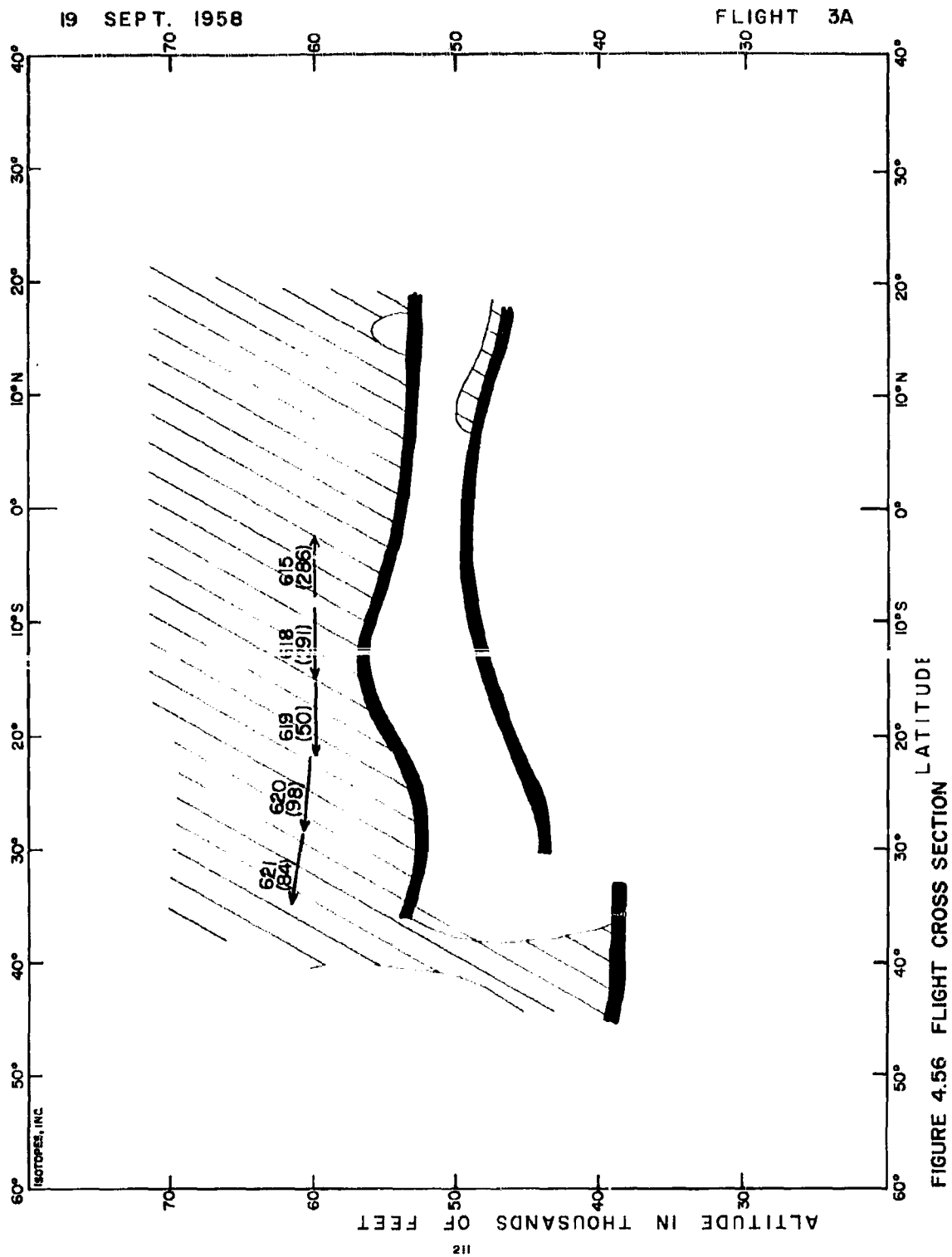


FIGURE 4.56 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	β T _{1/2}
				Total Beta	W 185 (Aug 58)				
23 September 1958 Mission 4									
705 RN	625	35°N	60	29,000	134 ± 4	1694 ± 44	---	---	97
	626	30°N	60	28,000	133 ± 6	2640 ± 60	---	---	58
	627	24°N	60	55,000	129 ± 6	14050 ± 150	---	---	49
	628	18°N	60	370,000	382 ± 11	206000 ± 1000	---	---	47
715 RS	629	3°S	60	180,000	211 ± 7	45400 ± 300	---	---	42
	630	2°N	60	130,000	143 ± 8	49800 ± 400	---	---	51
	632	13°N	60	310,000	262 ± 8	106100 ± 500	---	0.7	40
716 ES	622	38°S	35	3,200	7 ± 1	396 ± 12	---	---	50
	623	40°S	40	4,800	10 ± 1	558 ± 18	12	< 0.1	64
	624	38°S	40	5,700	17 ± 1	809 ± 28	---	---	65

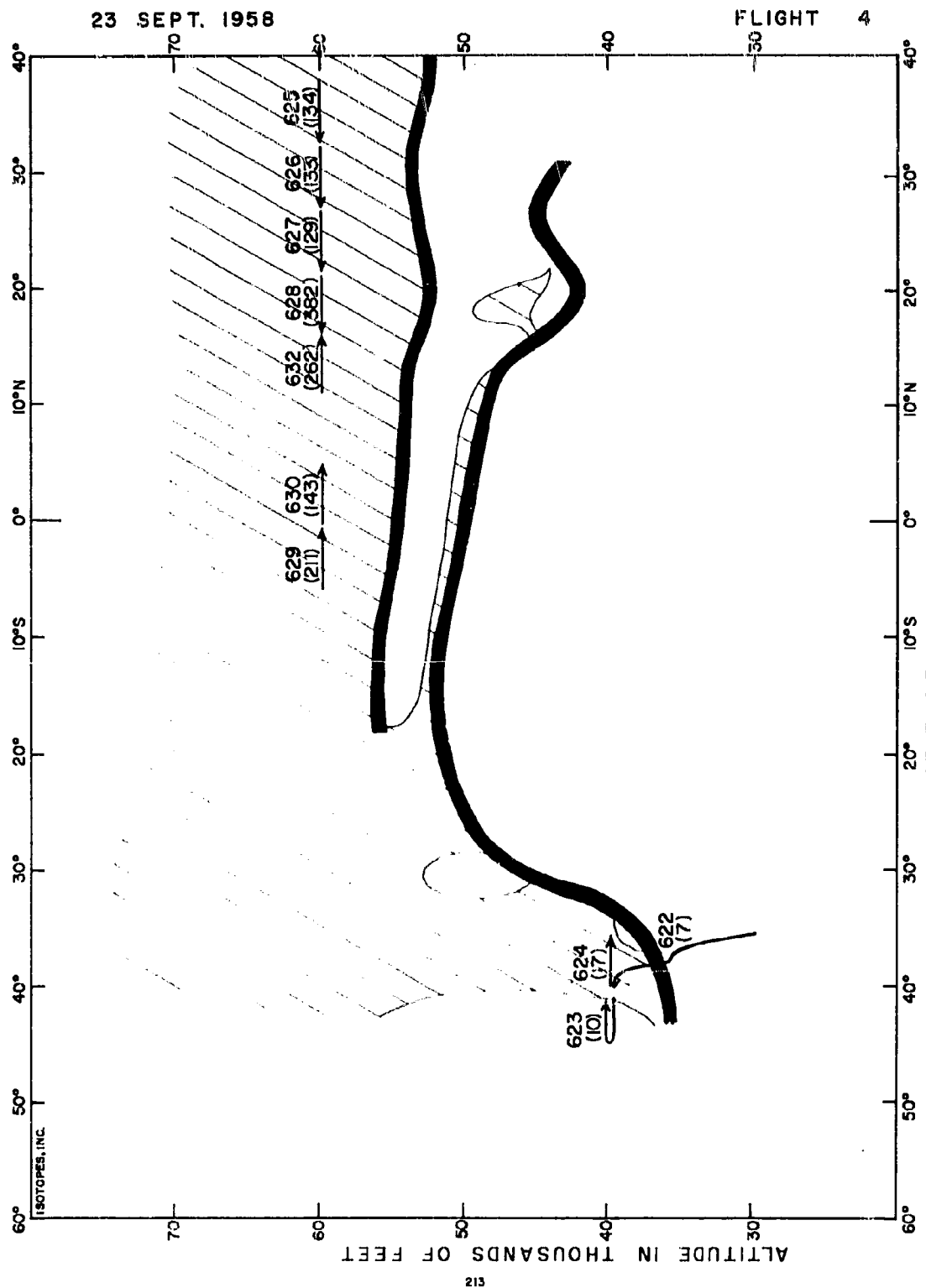


FIGURE 4.57 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰				
30 September 1958 Mission 3B									
716 EN	633	13°S	60	90,000	121 + 6	5350 + 110	19	< 0.1	25
	634	19°S	60	10,100	67 + 1	1611 + 31	---	---	96
	635	26°S	60.5	9,500	72 + 2	1252 + 25	---	---	> 100
	636	32°S	60.5	18,700	79 + 3	1313 + 45	---	---	41
717 ES	637	55°S	60	10,200	75 + 1	≤ 461	---	---	62
	638	50°S	60	9,900	96 + 2	≤ 596	---	---	56
	639	45°S	61	10,800	99 + 6	≤ 573	---	---	> 100
	640	40°S	61	18,500	79 + 2	1339 + 46	13	< 0.1	44

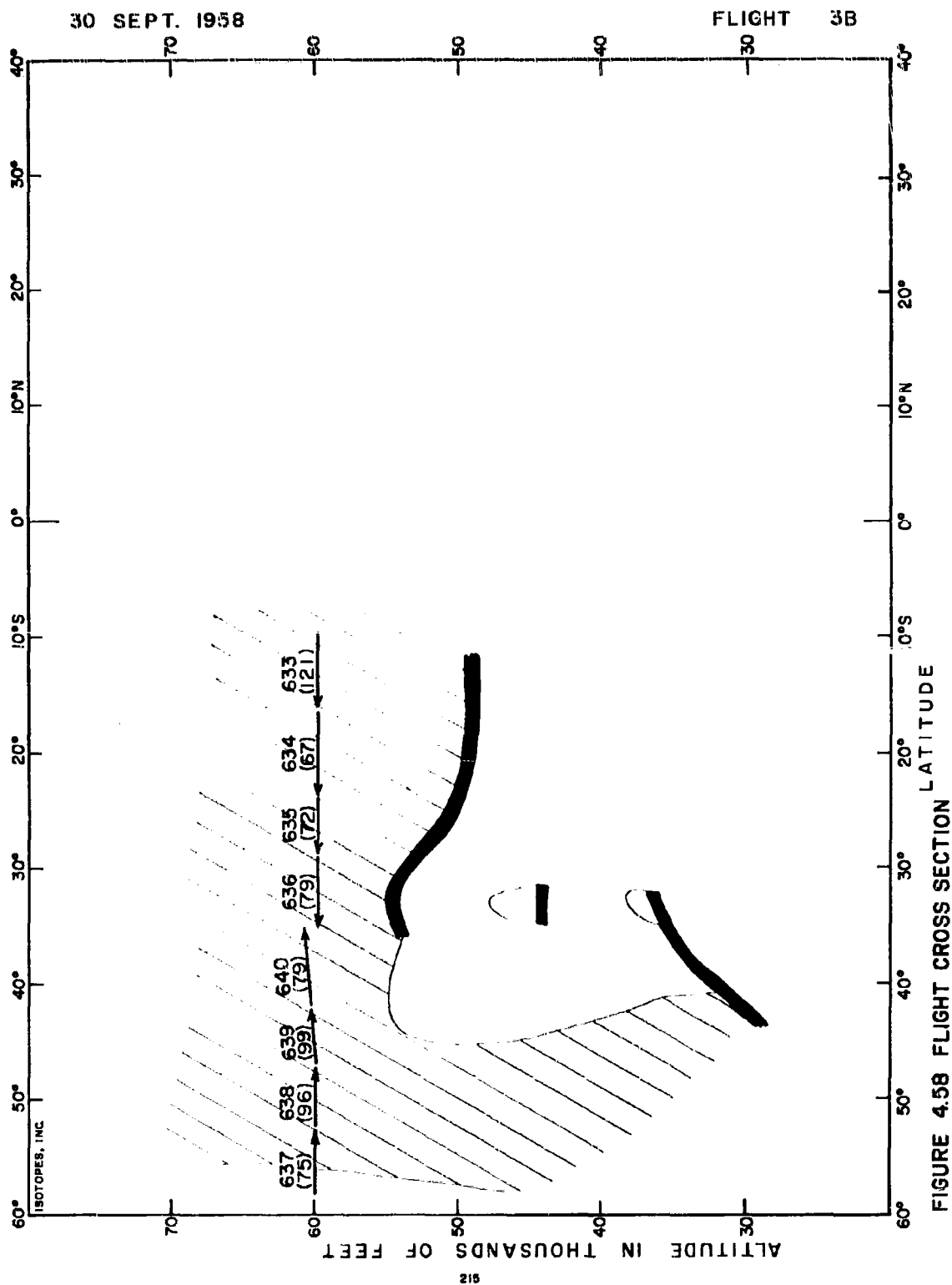


FIGURE 4.58 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	β T _{1/2}
					Sr 90	W 185 (Aug 58)				
3 October 1958 Mission 5										
715 RN	649	41°N	60	36,000	153 ± 3	5940 ± 140	16	---	---	42
	650	30°N	60	36,000	144 ± 1	10970 ± 250	26	---	---	70
	651	24°N	60	136,000	244 ± 6	8690 ± 170	38	---	---	62
	652	20°N	60	220,000	345 ± 12	61400 ± 400	41	---	< 0.1	52
714 RS	653	5°S	60	610,000	319 ± 11	87300 ± 600	99	---	---	22
	654	1°N	60	2,700,000	1294 ± 53	52900 ± 500	---	31	---	22
	655	7°N	60	430,000	426 ± 11	110000 ± 900	50	---	---	28
	656	11°N	60	280,000	370 ± 8	144900 ± 1000	46	---	---	46
718 EN	*642	12°S	60	62,000	98 ± 5	3540 ± 80	39	15	1.5	31
	643	19°S	60	29,000	63 ± 4	1940 ± 58	26	7.9	---	29
	644	25°S	60	17,500	73 ± 5	1641 ± 66	14	---	---	43
	*642	30°S	60	62,000	98 ± 5	3540 ± 80	39	15	1.5	31
716 ES	645	54°S	59.6	8,100	69 ± 4	320 ± 118	3.9	9.2	≤ 0.2	56
	646	49°S	60	9,100	67 ± 2	272 ± 86	5.6	11	---	100
	647	43°S	60.5	6,300	76 ± 1	≤ 142	1.9	17	---	> 100
	648	38°S	60.5	8,700	87 ± 2	≤ 584	3.6	10	---	74

* HASP sample No. 642 was exposed twice.

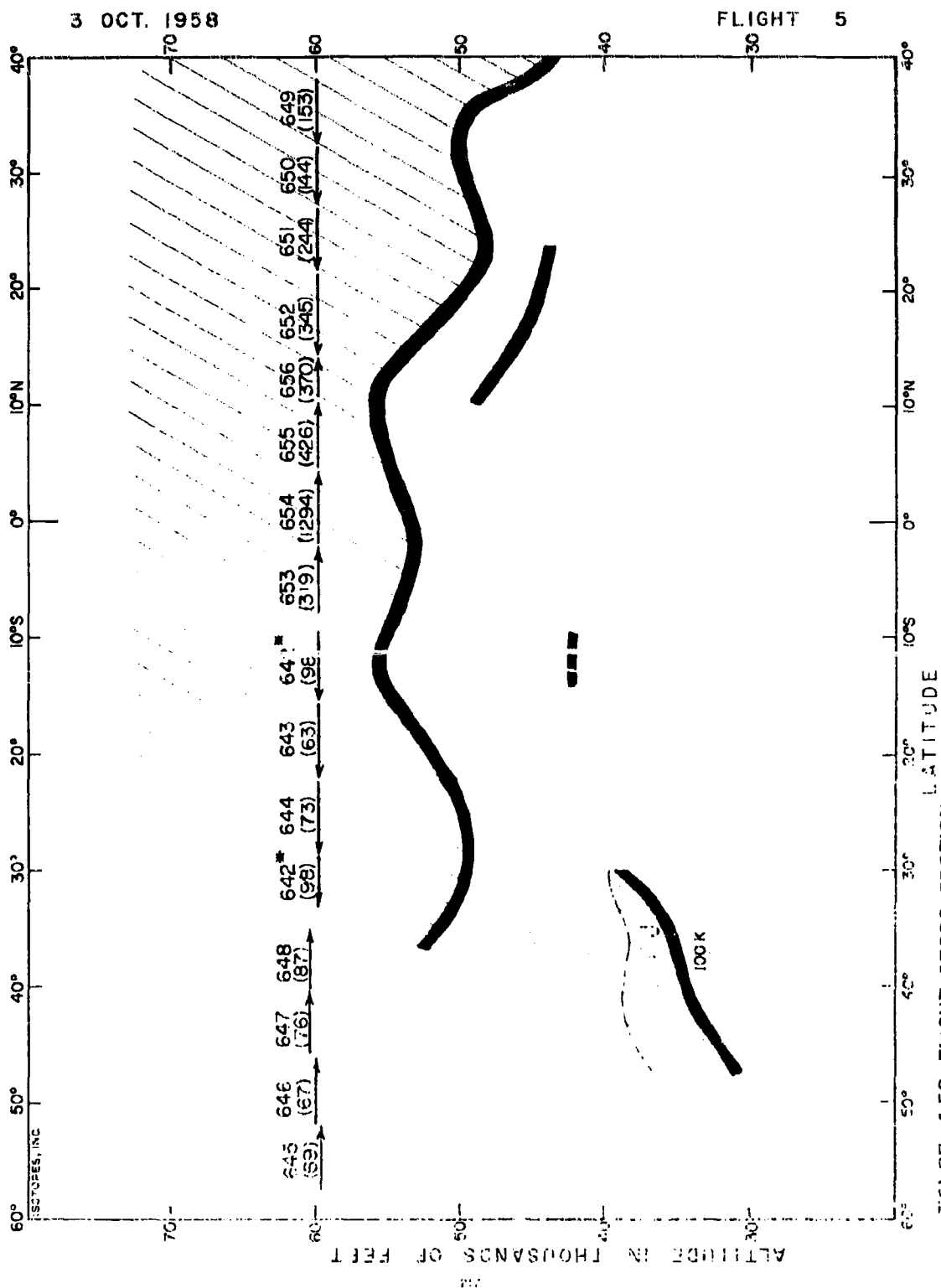


FIGURE 4 59 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	$\beta T_{1/2}$
					Sr 90	W 185 (Aug 58)				
7 October 1958 Mission 6										
714	663	35°N	59.5	30,000	154 + 7	5140 + 160	18	---	---	89
RN	664	30°N	60	30,000	119 + 4	6650 + 100	22	---	---	> 100
	665	24°N	60	41,000	113 + 7	7360 + 150	19	---	---	67
	666	19°N	60	73,000	200 + 11	21900 + 300	39	---	---	75
705	667	3°N	60	2,800,000	1826 + 223	54200 + 1000	62	26	---	23
RS	668	8°N	60.2	1,570,000	1000 + 15	52100 + 1000	---	29	---	23
	669	13°N	60.5	122,000	225 + 5	33200 + 400	35	---	---	51
718	660	38°S	59	9,800	64 + 4	989 + 39	8.6	---	---	> 100
ES	661	44°S	60	7,800	64 + 2	584 + 18	4.9	14	---	> 100
	662	38°S	51	14,800	49 + 5	3280 + 50	24	---	---	54
717	657	38°S	61.5	22,000	90 + 1	≤ 379	---	---	---	25
ES	658	45°S	66	25,000	200 + 31	1151 + 44	4.2	13	---	> 100
	659	38°S	59	18,800	65 + 2	≤ 116	7.9	---	---	38

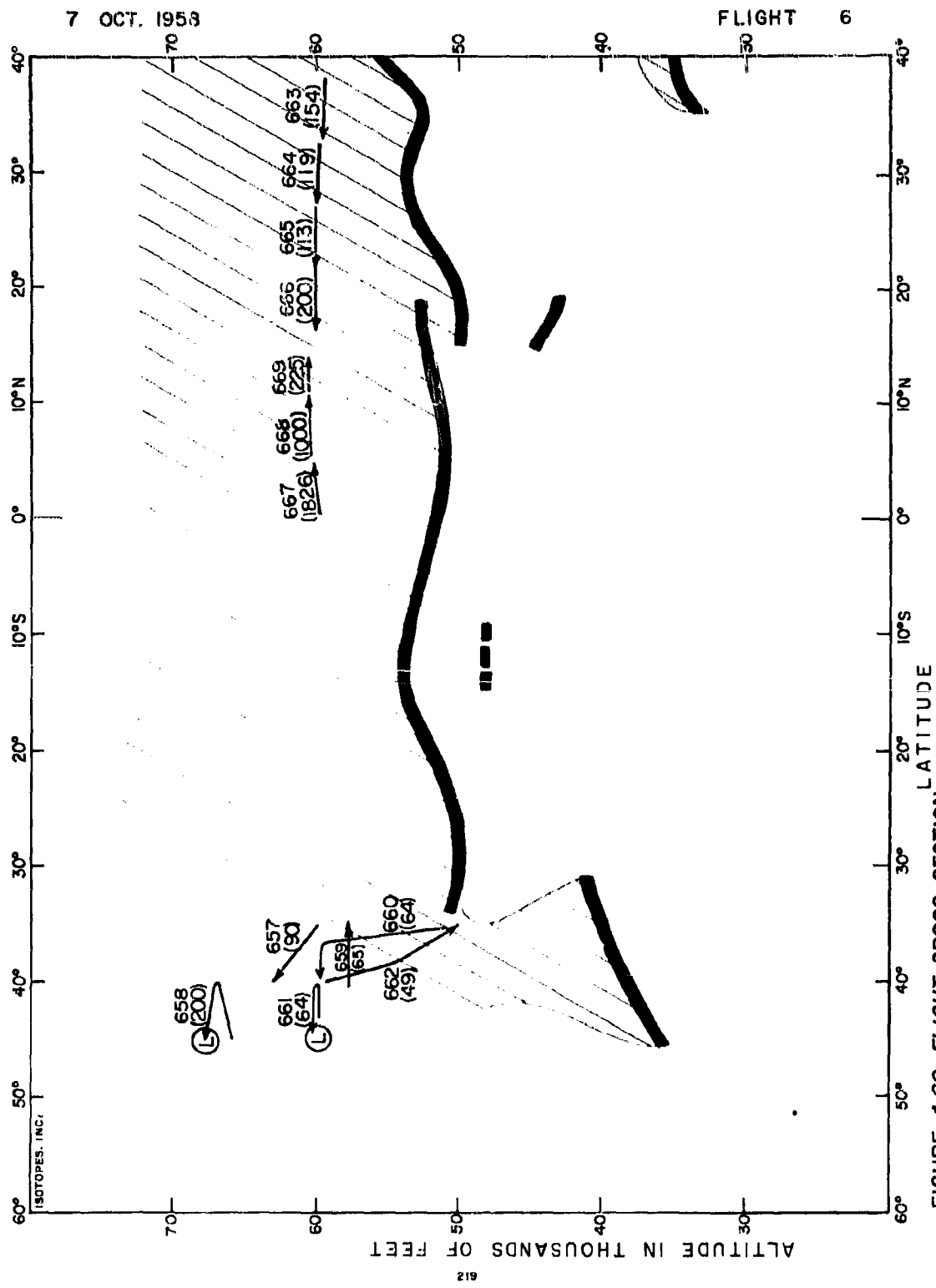


FIGURE 4.60 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
10 October 1958 Mission 7										
714 RN	670	35°N	60	26,000	152 ± 7	3890 ± 130	---	---	---	> 100
	671	30°N	60	23,000	153 ± 3	2750 ± 80	7.6	---	---	98
	672	24°N	60	25,000	131 ± 6	3220 ± 90	6.7	---	---	73
	673	19°N	60	52,000	188 ± 17	10580 ± 230	20	---	---	67
705 RS	674	5°S	60	1,720,000	1348 ± 93	27400 ± 500	63	21	1.9	21
	675	1°N	60	1,840,000	1069 ± 151	57000 ± 800	94	31	1.6	21
	676	7°N	60	950,000	949 ± 101	87400 ± 600	59	---	---	22
	677	12°N	60	153,000	392 ± 10	50400 ± 400	---	---	---	50
716 ES	678	38°S	60	13,400	93 ± 9	≤ 282	3.9	---	≤ 0.2	47
	679	44°S	60	10,200	74 ± 5	456 ± 26	3.9	---	---	86
	680	49°S	60	8,800	97 ± 3	≤ 480	---	---	---	73
	681	54°S	60	9,600	32 ± 2	1109 ± 48	11	---	---	75

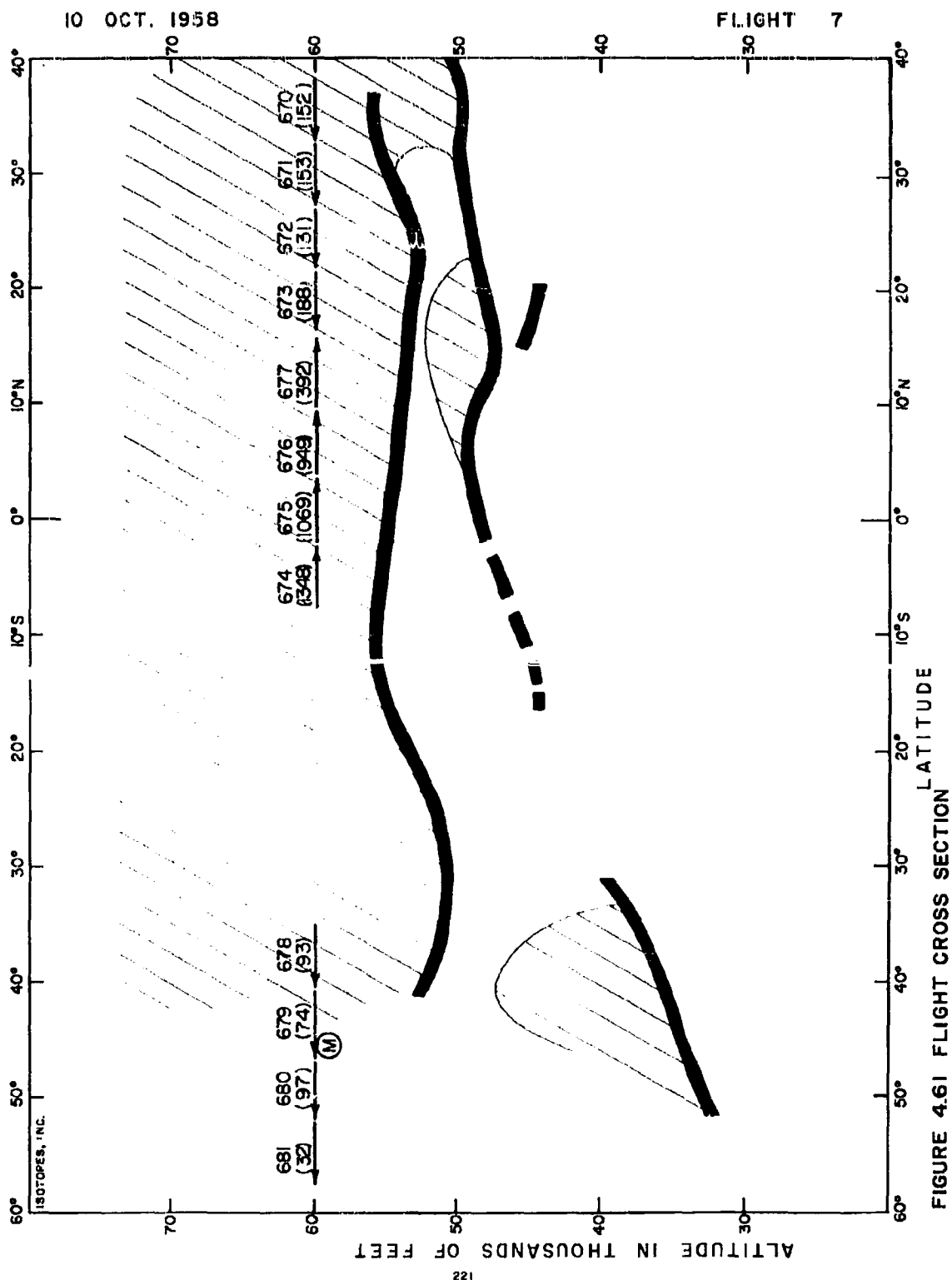


FIGURE 4.61 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	$\beta T_{1/2}$	
				Total Beta	Sr ⁹⁰ W ¹⁸⁵ (Aug 58)					
14 October 1958 Mission 8										
705 RS	688	3°S	60	670,000	862 ± 2.5	29300 ± 400	46	18	1.6	25
	689	2°N	60	770,000	899 ± 2.5	70400 ± 600	52	---	1.5	24
	690	8°N	60	1,100,000	1274 ± 3.7	69200 ± 800	53	18	1.1	24
	691	13°N	60	440,000	570 ± 1.8	82900 ± 700	---	---	---	31
718 ES	682	38°S	38	26,000	103 ± 3.0	1302 ± 39	14	13	0.2	68
	683	43°S	37	3,300	15 ± 2	507 ± 9	18	---	---	63
	684	38°S	29	< 210	1.7 ± 0.5	≤ 42	---	---	---	long

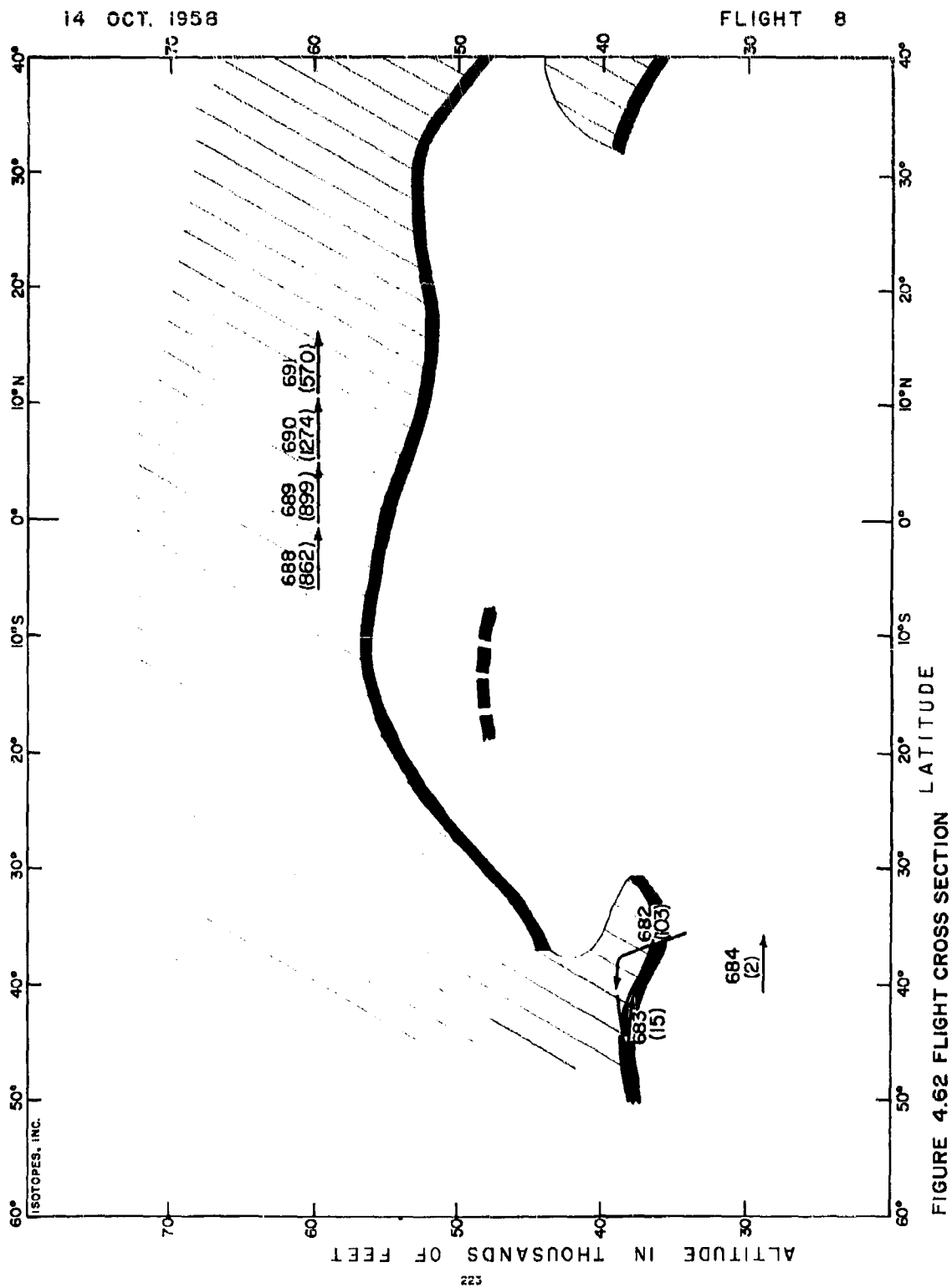


FIGURE 4.62 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/100 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
17 October 1958 Mission 9										
715 EN	692	36°N	60	26,000	181 ± 5	6980 ± 170	7.1	---	---	46
	693	30°N	60	70,000	187 ± 27	16770 ± 300	32	---	---	64
	694	25°N	60	360,000	580 ± 19	59900 ± 600	44	---	---	33
	695	20°N	60	350,000	473 ± 16	54900 ± 500	32	3.9	1.2	27
705 RS	696	5°S	60	920,000	1101 ± 17	59100 ± 600	52	3.8	1.2	24
	697	1°N	60	970,000	1124 ± 35	56800 ± 600	52	3.9	1.1	26
	698	7°N	60	320,000	491 ± 12	63500 ± 500	27	---	---	36
	699	13°N	60	157,000	567 ± 18	57800 ± 400	25	---	---	44
717 EN	700	31°S	60	10,800	80 ± 1	2070 ± 60	---	---	---	96
	701	26°S	60	10,200	76 ± 4	3370 ± 110	10	---	≤ 0.1	> 100
	702	19°S	60	270,000	218 ± 5	11750 ± 180	73	---	1.2	23
716 ES	704	38°S	60	8,400	79 ± 1	826 ± 36	---	---	---	65
	705	43°S	60	7,800	44 ± 1	≤ 841	≤ 0.3	---	---	> 100
	706	49°S	60	4,400	65 ± 2	≤ 439	---	---	---	> 100
	707	45°S	60	2,800	36 ± 1	3360 ± 100	5.2	---	---	85

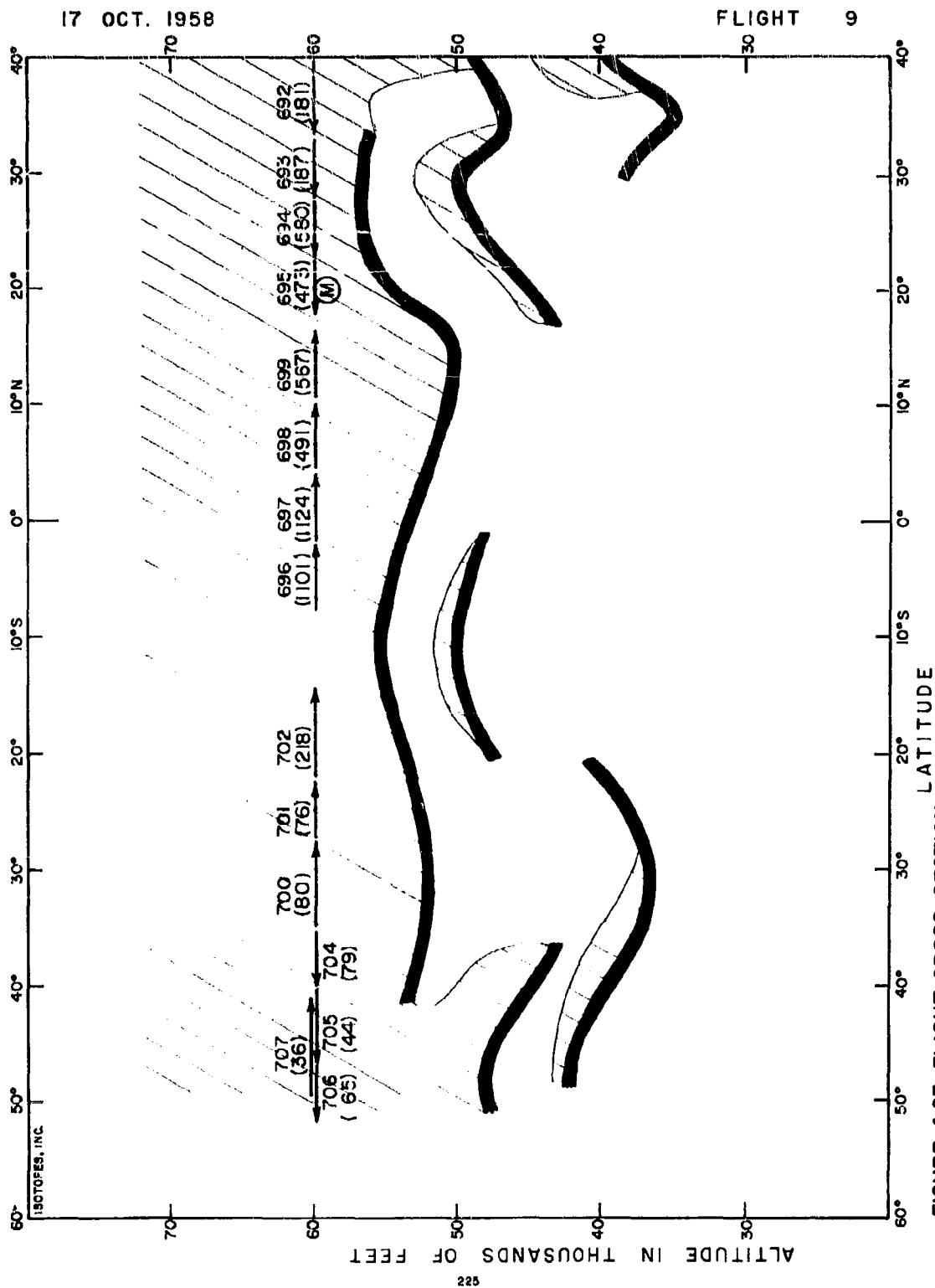


FIGURE 4.63 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
19 October 1958 Mission 12A										
714 RP	708	23°N	50	4,800	14 + 1	55 + 1	---	23	---	53
	709	30°N	50	11,100	43 + 3	2550 + 80	27	13	---	>100
	710	35°N	50	22,000	82 + 2	6110 + 120	16	7.8	---	57
	711	41°N	50	32,000	77 + 10	9030 + 150	22	23	---	57
715 RP	712	23°N	55	23,000	66 + 2	9280 + 170	25	7.7	---	50
	713	29°N	56	29,000	79 + 4	9560 + 170	21	6.9	---	>100
	714	35°N	56	33,000	130 + 6	10170 + 150	---	26	---	44
	715	41°N	55	56,000	190 + 5	7350 + 40	7.6	25	---	25
705 RP	716	23°N	60	330,000	927 + 23	67100 + 500	23	---	0.9	38
	717	29°N	60	290,000	393 + 11	53600 + 500	52	---	0.6	37
	718	35°N	59.5	21,000	172 + 6	5360 + 180	6.7	---	---	>100
	719	41°N	59	770,000	576 + 16	1258 + 59	48	---	4.1	15

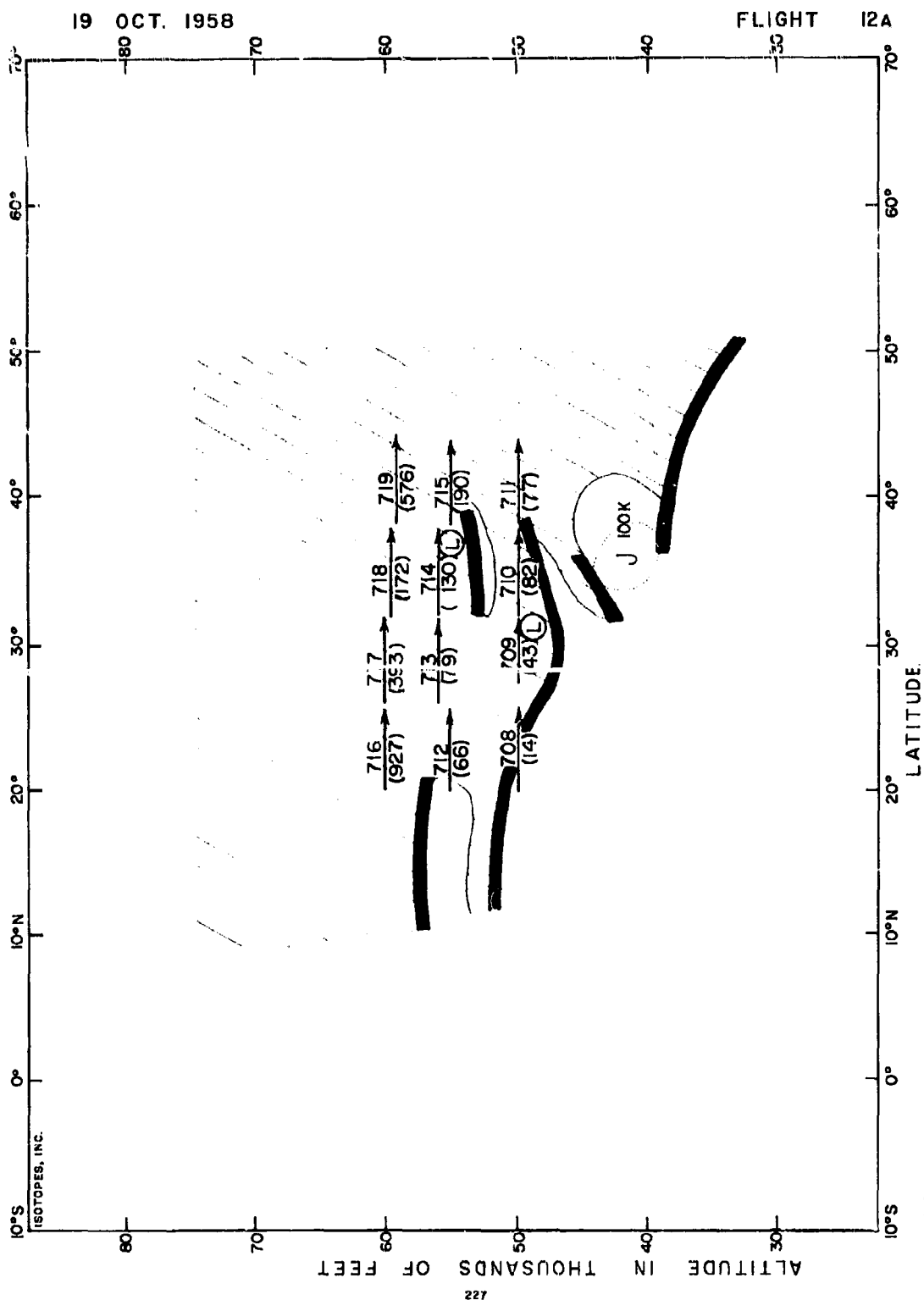


FIGURE 4.64 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$	$\beta T_{1/2}$
					$\frac{\text{Sr}^{90}}{\text{Sr}^{90}}$	$\frac{\text{W}^{185}}{(\text{Aug } 58)}$				
21 October 1958 Mission 12-B										
717	720	38°S	57	13,400	61 ± 1	7530 ± 150	17	---	< 0.1	61
ES	721	43°S	60	5,900	78 ± 4	4130 ± 80	8.1	---	---	> 100
	722	38°S	52	23,000	66 ± 2	4990 ± 110	26	---	---	52
716	723	38°S	65	13,600	129 ± 6	327 ± 21	5.7	---	---	> 100
ES	724	43°S	67	13,200	103 ± 1	152 ± 4	3.2	---	---	> 100
	725	38°S	60	12,600	86 ± 1	3610 ± 120	16	---	---	95

21 OCT. 1958

FLIGHT 12B

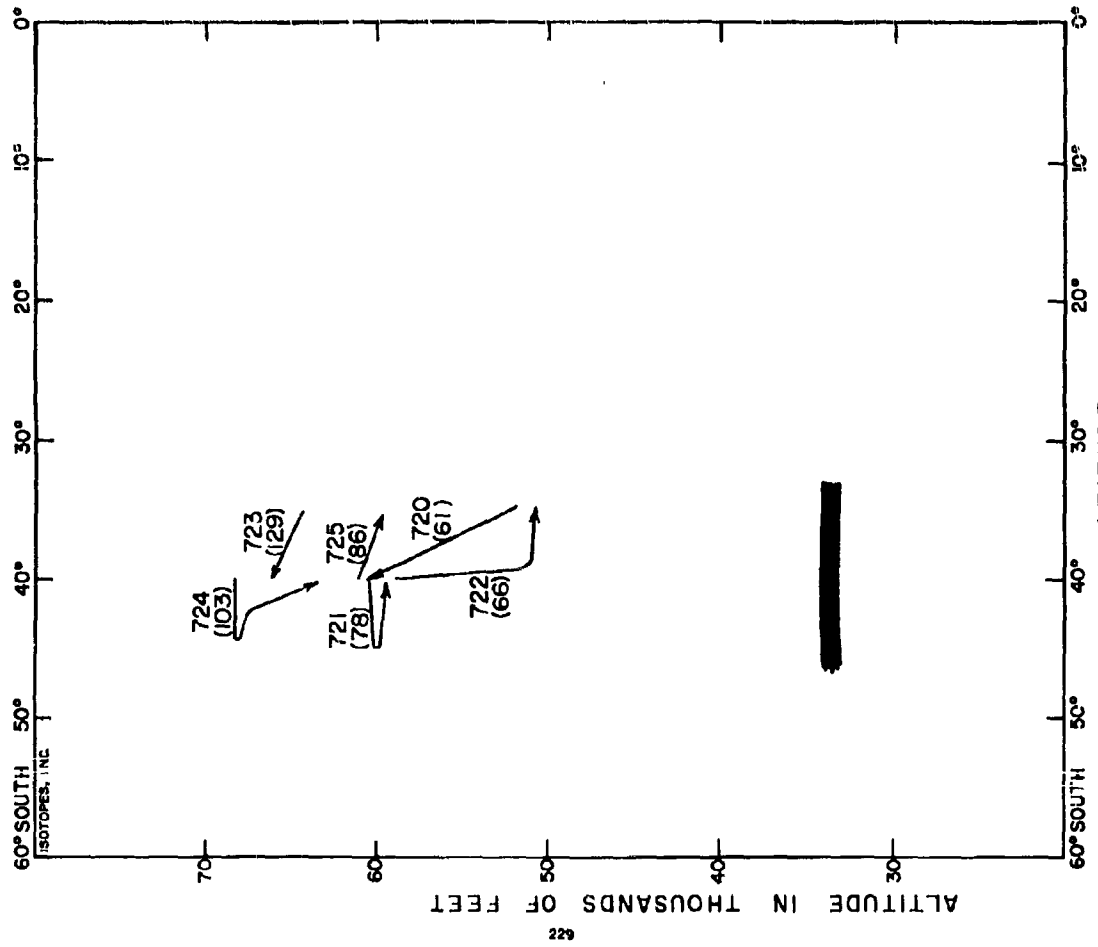


FIGURE 4.65 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	$\bar{P}^{11/2}$
					Sr 90	W 185 (Aug 58)				
22 October 1958 Mission 12D										
715 PN	726	50°N	55	104,000	224 ± 4	33400 ± 200	26	---	0.9	32
	727	61°N	62.5	8,800	124 ± 2	≤ 278	2.5	19	---	> 100
	728	61°N	67	2,600	46 ± 4	≤ 129	0.9	15	---	long
	729	50°N	69	6,600	88 ± 5	414 ± 9	---	---	---	> 100
714 PO	730	44°N	40	940	34 ± 2	614 ± 20	4.8	---	---	85
	731	44°N	50	35,000	42 ± 1	5940 ± 70	---	---	---	41
	732	44°N	60	1,550,000	1033 ± 30	11350 ± 310	49	16	3.3	17
	733	44°N	68	103,000	187 ± 5	521 ± 23	19	---	---	19

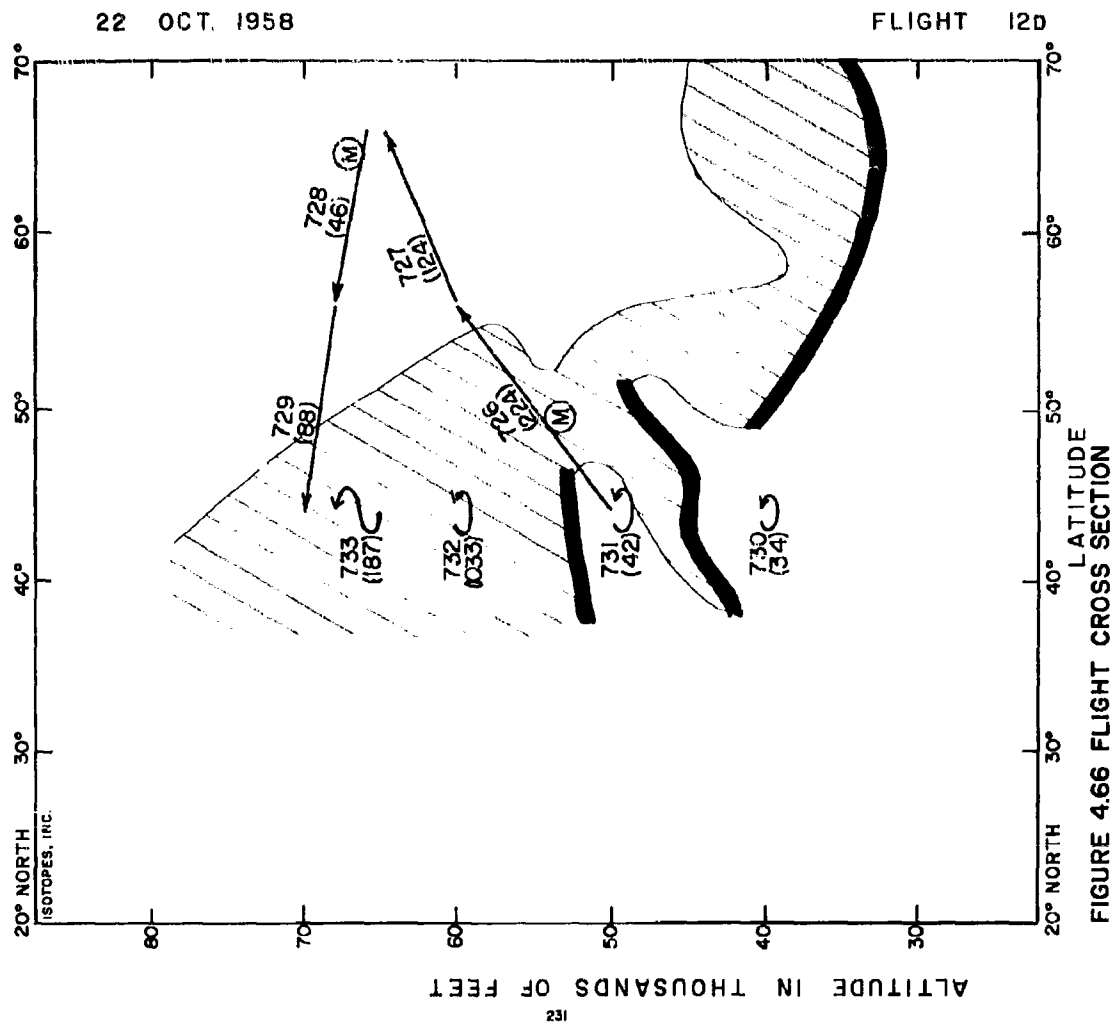


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	$\beta T_{1/2}$
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
23 October 1958 Mission 12E										
715	739	50°N	55	82,000	164 ± 4	20100 ± 100	---	---	---	34
PN	740	61°N	63	14,100	127 ± 3	675 ± 30	5.4	---	---	> 100
	741	61°N	67	3,900	58 ± 2	580 ± 30	---	---	---	> 100
	742	50°N	68.6	27,000	76 ± 3	87 ± 25	16	---	---	24

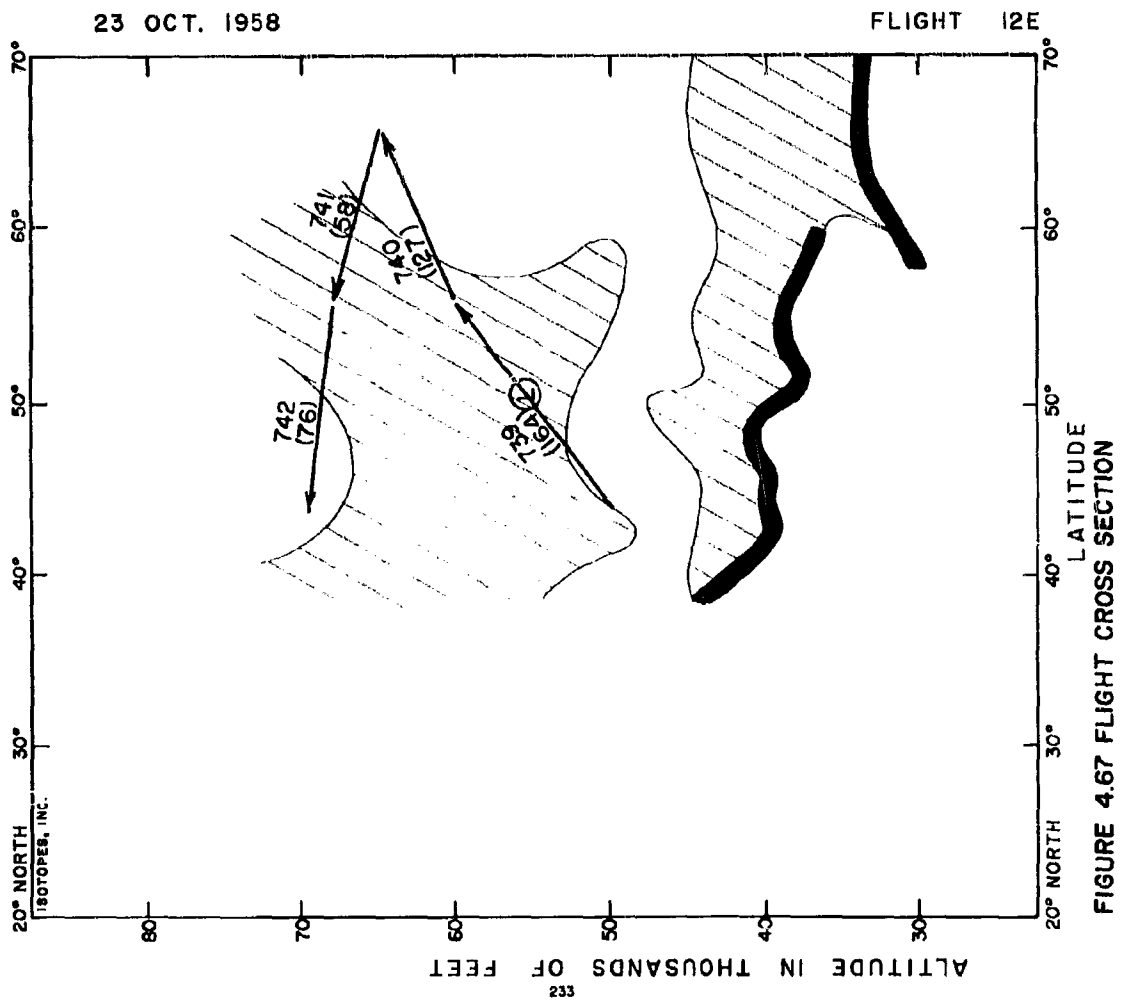


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	$\beta T_{1/2}$
					Sr 90	W 185 (Aug 58)				
25 October 1958 Mission 13A										
716	734	38°S	60	7,700	68 + 1	510 + 8	3.9	---	---	> 100
ES	735	43°S	60	7,700	74 + 1	230 + 5	2.5	---	---	> 100
	736	48°S	60	8,000	92 + 6	1365 + 48	---	---	---	> 100
	737	54°S	60	6,700	55 + 3	143 + 6	3.9	---	---	> 100

25 OCT. 1958

FLIGHT 13A

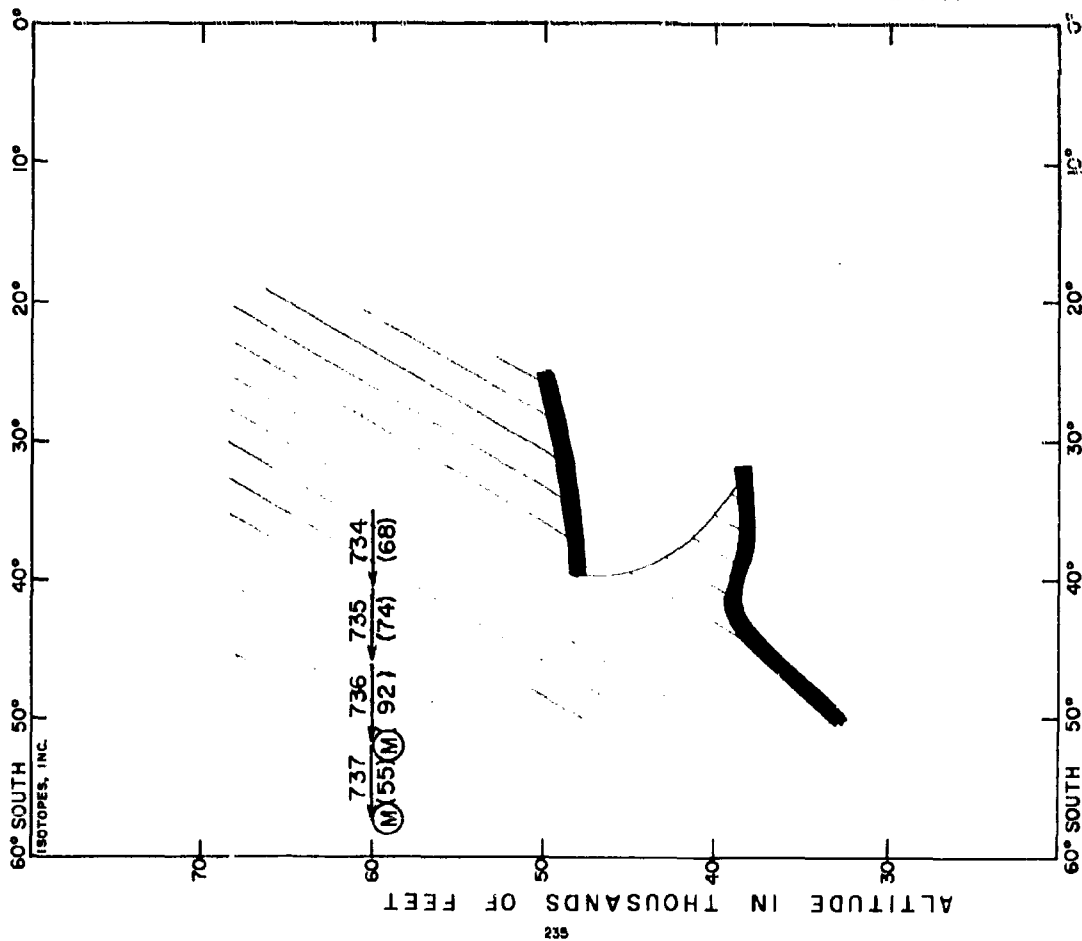


FIGURE 4.68 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β Ti/2
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)					
29 October 1958 Mission 13B											
715 PR	759	41°N	50	38,000	119 ± 12	10790 ± 130		18	---	---	83
	760	35°N	50	290,000	240 ± 8	8680 ± 150		39	24	2.4	20
	761	29°N	50	13,500	28 ± 1	4710 ± 120		27	---	---	31
705 PR	755	41°N	55	440,000	236 ± 12	12360 ± 200		76	39	1.7	22
	756	35°N	55	38,000	128 ± 6	9850 ± 190		14	---	---	60
	757	29°N	55	112,000	216 ± 9	33600 ± 300		29	---	---	55
	758	23°N	55	48,000	59 ± 1	12180 ± 180		---	---	---	51
714 PR	751	41°N	60	2,900,000	1827 ± 46	6180 ± 150		65	11	2.3	21
	752	35°N	60	240,000	409 ± 14	3340 ± 70		23	---	---	21
	753	23°N	60	230,000	273 ± 11	6650 ± 180		42	---	---	25
716 EN	743	32°S	60	8,400	67 ± 1	784 ± 41		5.7	---	---	> 100
	744	25°S	60	17,900	79 ± 1	2120 ± 60		18	---	---	80
	745	19°S	60	14,300	69 ± 3	2290 ± 70		21	---	---	43
	746	13°S	60	38,000	121 ± 14	5150 ± 140		22	18	---	42
718 ES	747	38°S	60	27,000	96 ± 6	3210 ± 80		---	---	---	64
	748	43°S	60	12,200	76 ± 1	6370 ± 220		9.4	---	---	83
	749	54°S	60	18,100	140 ± 6	388 ± 43		6.4	---	---	> 100

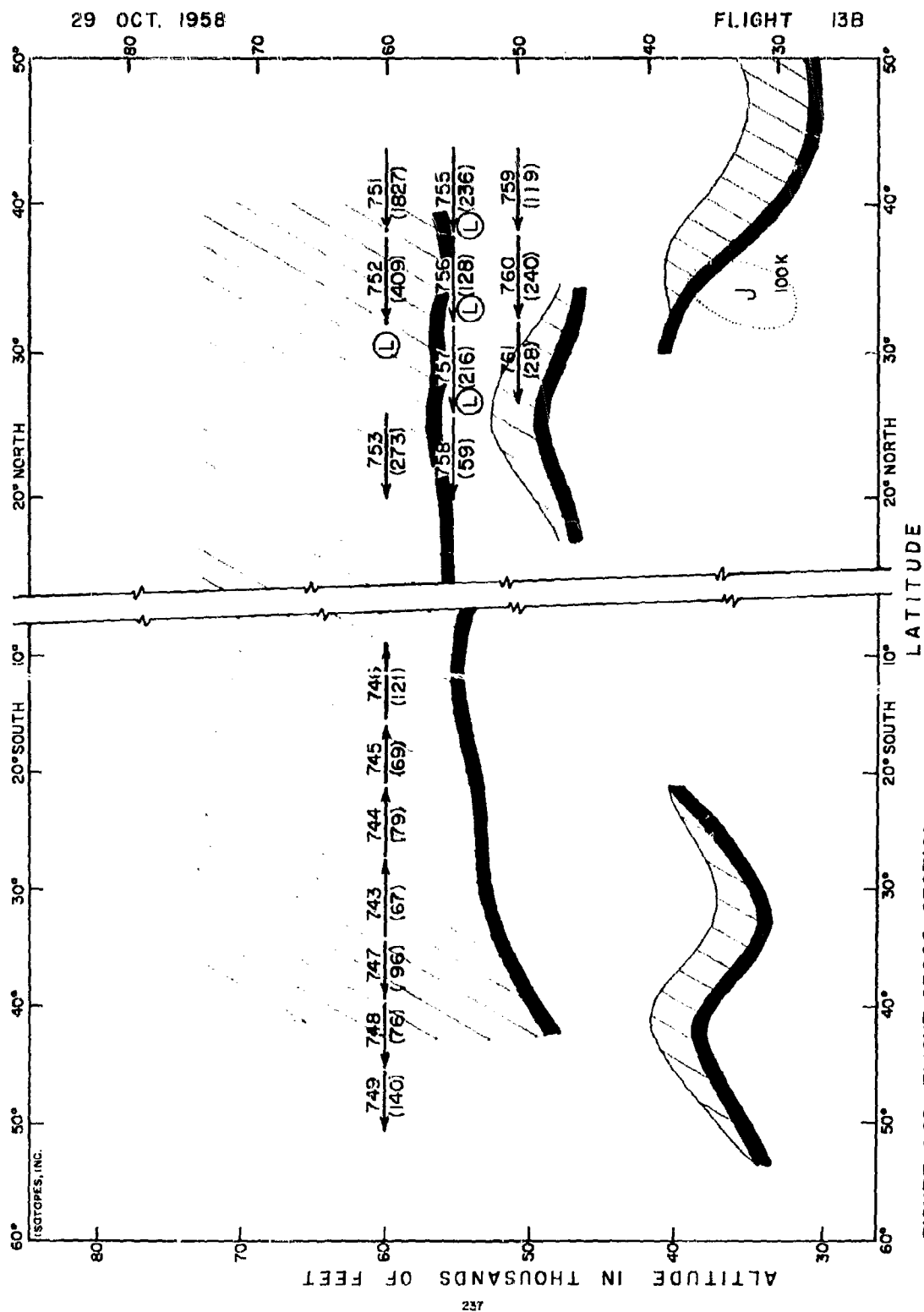


FIGURE 4.69 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
5 November 1958 Mission 14										
705 RN	769	35°N	60	15,100	146 ± 1	12730 ± 270	5.5	---	---	> 100
	770	30°N	60	200,000	351 ± 9	2300 ± 60	33	---	2.0	38
	771	25°N	60	187,000	425 ± 10	48000 ± 500	41	---	---	48
	772	19°N	60	180,000	396 ± 12	40000 ± 500	33	---	---	40
715 RS	773	3°S	60	158,000	370 ± 18	35800 ± 400	38	---	0.6	45
	774	2°N	60	151,000	405 ± 15	36800 ± 400	35	---	---	62
	775	8°N	60	149,000	388 ± 13	39000 ± 400	38	---	---	46
	776	13°N	60	107,000	227 ±	25200 ± 300	39	---	---	48
718 ES	766	38°S	58	14,500	91 ± 1	2330 ± 70	10	---	---	80
	767	44°S	60	8,700	83 ± 3	291 ± 13	4.1	---	---	> 100
	768	38°S	50	15,200	60 ± 2	3330 ± 90	18	16	< 0.1	74
717 ES	763	38°S	63.5	10,200	95 ± 10	334 ± 11	4.8	---	---	> 100
	764	43°S	67.5	10,700	125 ± 3	43 ± 3	---	14	---	> 100
	765	38°S	60	27,000	169 ± 9	4970 ± 140	19	---	< 0.1	71

5 NOV. 1958

FLIGHT 14

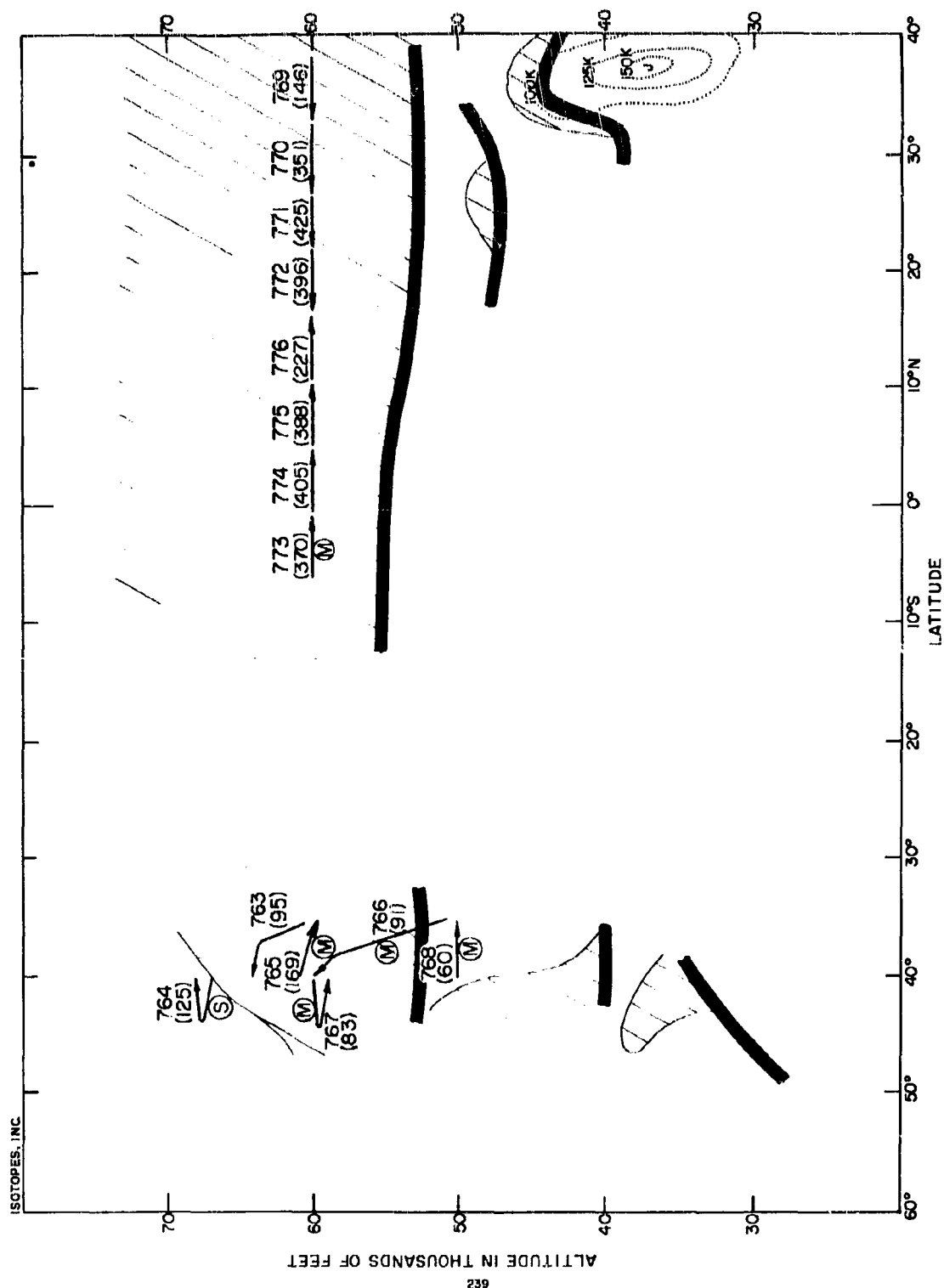


FIGURE 4.70 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰ W ¹⁸⁵ (Aug 58)				
7 November 1958 Mission 11									
714 RS	777	5°S	60	250,000	446 ± 6	16430 ± 180	61	0.5	47
	778	3°N	60	166,000	309 ± 22	33300 ± 400	50	---	47
	779	7°N	60	230,000	424 ± 20	50400 ± 500	48	---	49
	780	13°N	60	103,000	257 ± 10	29700 ± 400	35	---	48
716 EN	781	32°S	60	12,500	55 ± 1	2580 ± 50	25	---	92
	782	25°S	60	13,400	57 ± 1	3050 ± 60	19	---	56
	783	19°S	60	39,000	197 ± 1	3890 ± 140	34	< 0.1	45
	784	13°S	60	133,000	224 ± 8	14290 ± 240	13	1.4	41
718 ES	785	38°S	60	10,800	88 ± 1	1605 ± 55	7.5	---	> 100
	786	43°S	60	8,500	77 ± 1	642 ± 33	4.2	---	> 100
	787	49°S	60	7,800	53 ± 1	318 ± 5	6.8	---	> 100
	788	54°S	60	8,000	72 ± 1	374 ± 11	2.3	---	> 100

7 NOV. 1958

FLIGHT II

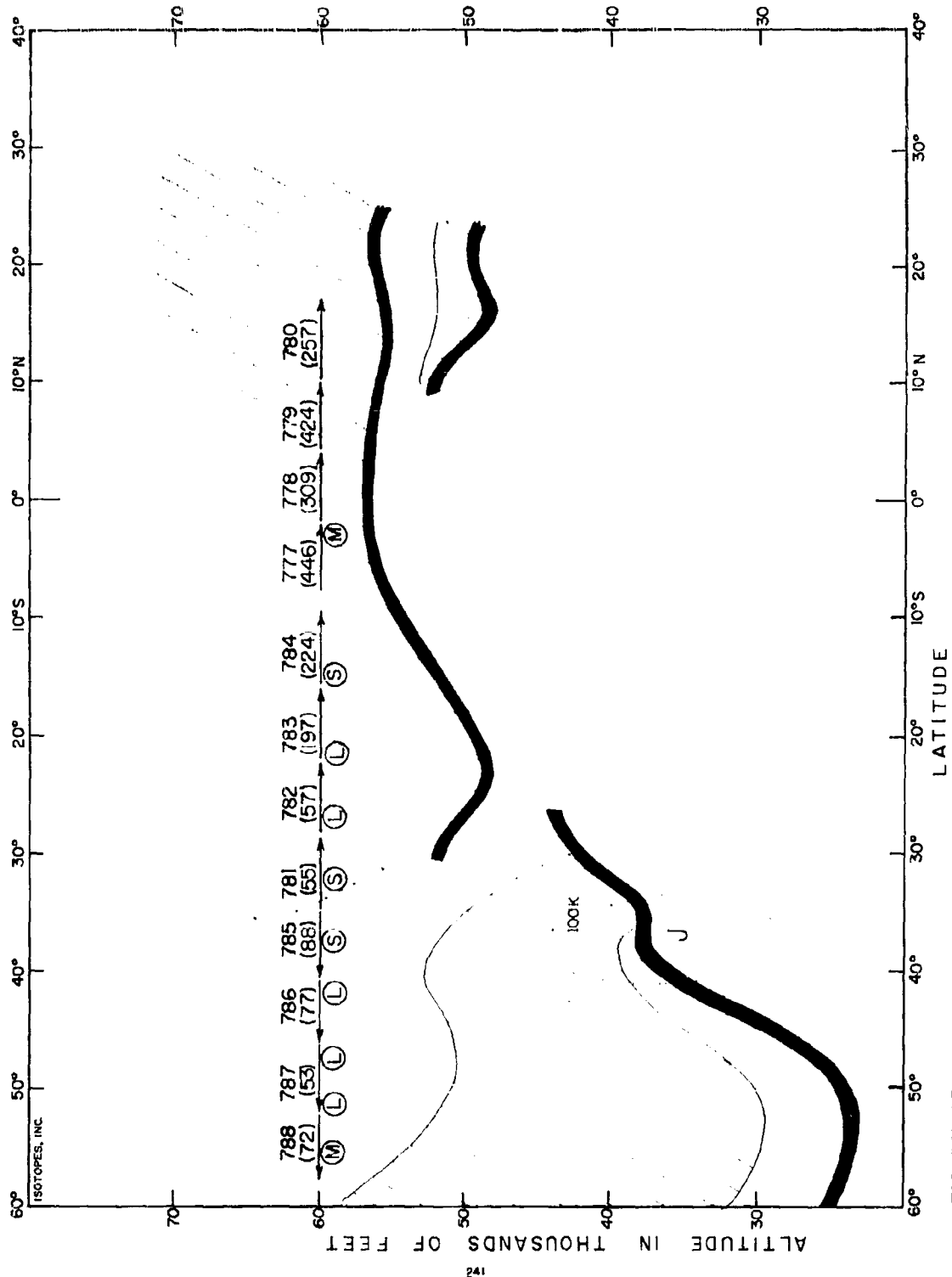


FIGURE 4.71 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
15 November 1958 Mission 15										
242	705 RN	32°N	60	240,000	305 + 9	5830 + 290	44	---	---	27
	798	22°N	60	570,000	663 + 21	21300 + 400	50	24	1.7	24
716 EN	789	32°S	59.5	7,600	83 + 3	1171 + 37	5.0	---	---	68
	790	25°S	60	60,000	133 + 1	5780 + 140	36	---	---	39
	791	19°S	60	167,000	314 + 10	25200 + 400	42	21	0.2	30
	792	13°S	60	133,000	260 + 10	21900 + 300	36	23	0.3	39
718 ES	793	38°S	60	7,000	52 + 1	443 + 6	2.5	---	---	>100
	794	43°S	60	8,000	74 + 3	441 + 19	---	---	---	>100
	795	49°S	60	6,300	43 + 2	275 + 9	3.8	---	---	>100
	796	54°S	60.5	8,300	79 + 1	107 + 8	---	11	---	>100

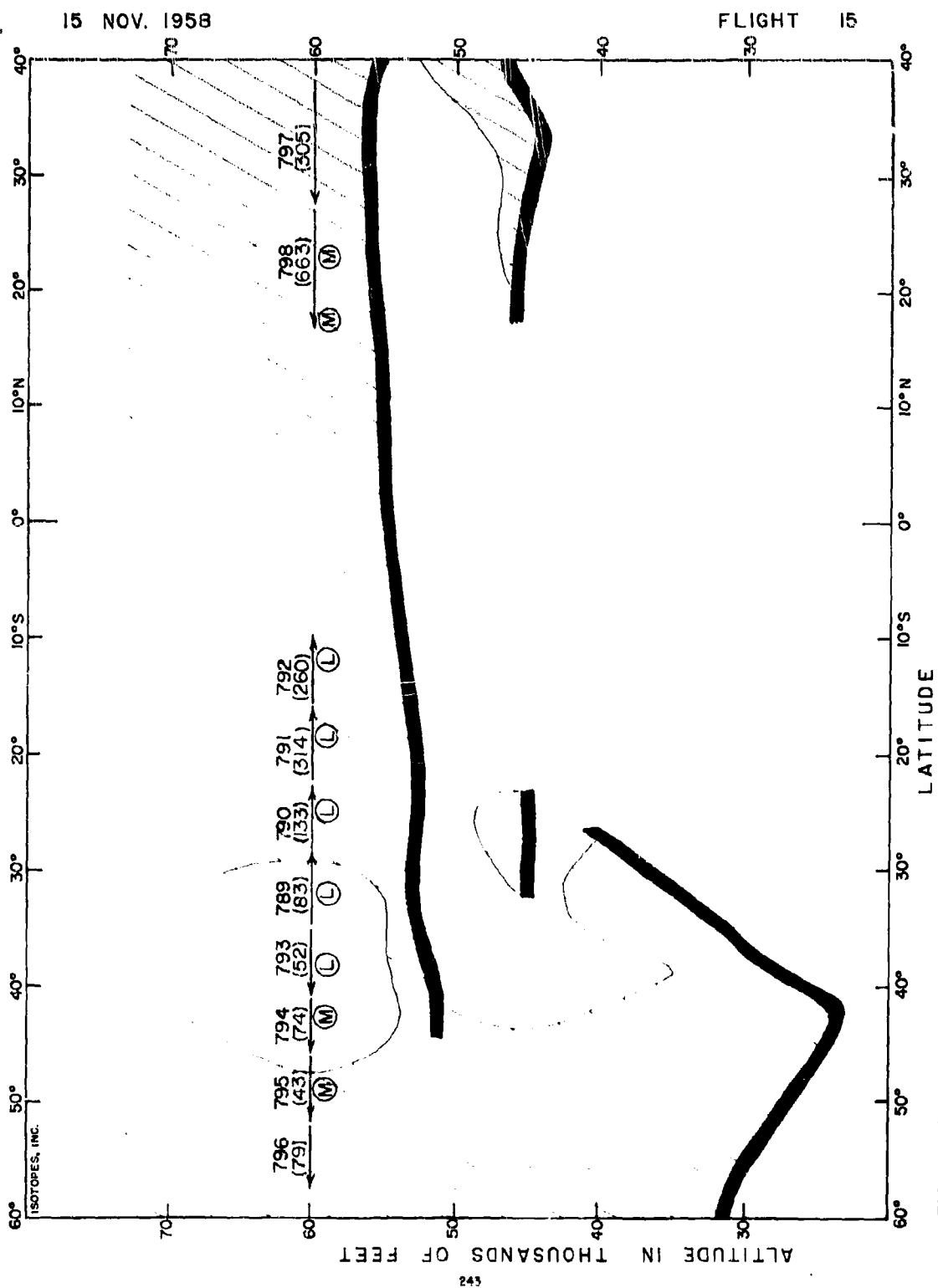


FIGURE 4.72 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$	$\beta \text{ T}_{1/2}$
					Sr^{90}	$\frac{\text{W}^{185}}{\text{(Aug 58)}}$				
16 November 1958 Mission 17A										
714 RP	801	23°N	51	23,000	43 + 2	4440 + 100	36	---	---	43
	802	28°N	50	30,000	48 + 1	3750 + 90	42	---	0.6	29
	803	34°N	50	27,000	51 + 1	5130 + 110	32	---	---	45
	804	39°N	50	10,200	28 + 1	4460 + 100	24	---	---	67

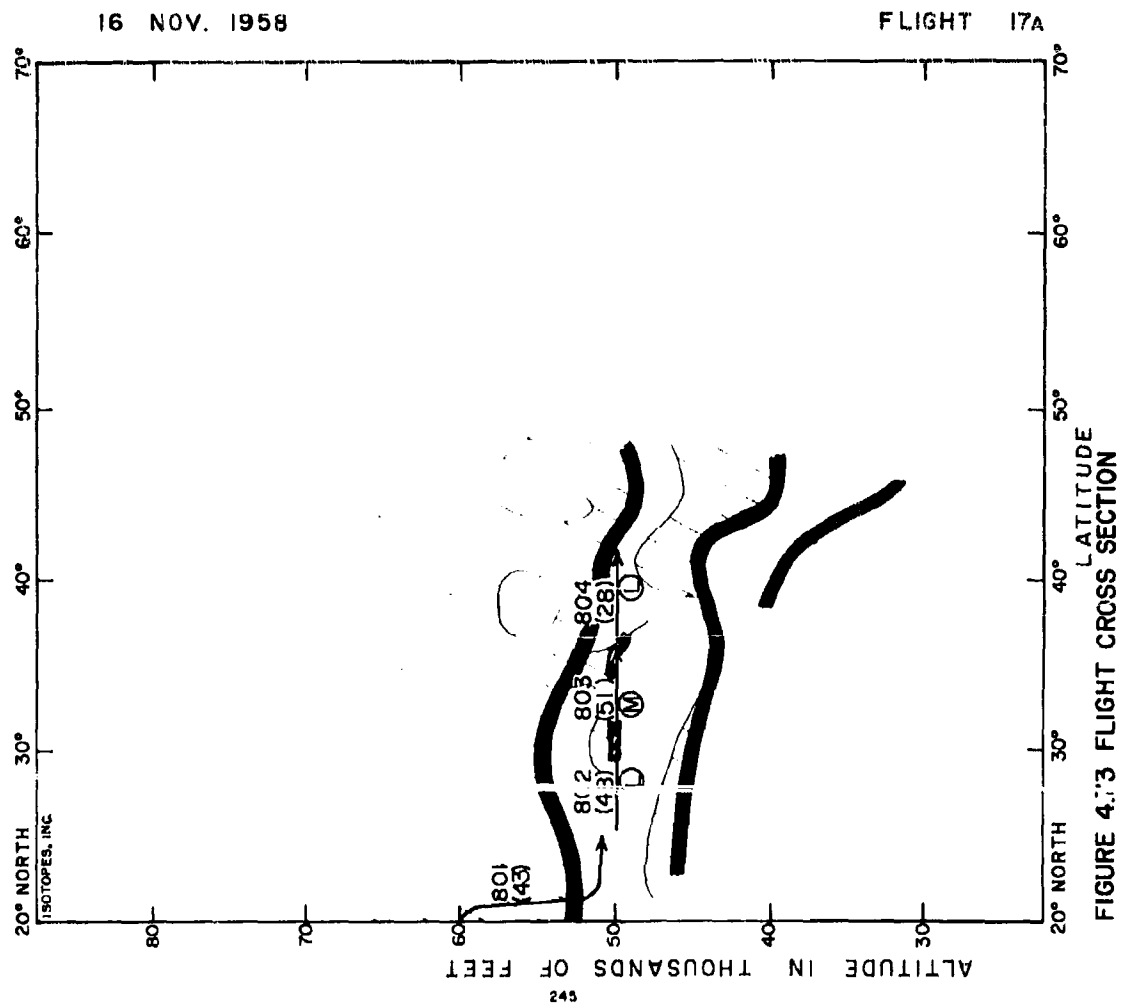


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
18 November 1958 Mission 17B										
705 PN	805	47°N	50	73,000	84 ± 3	8870 ± 140	37	---	---	36
	806	52°N	50	500,000	466 ± 16	12410 ± 160	44	18	2.4	24
	807	58°N	50	172,000	280 ± 8	21600 ± 200	27	---	---	36
	808	63°N	50	240,000	261 ± 8	Impure	44	43	0.8	35
714 PN	809	50°N	61.6	86,000	201 ± 4	1997 ± 72	---	---	---	44
	810	61°N	63.5	6,800	50 ± 1	80 ± 3	6.1	25	---	> 100
	811	61°N	64.9	5,900	46 ± 5	206 ± 7	11	27	---	98
	812	50°N	67.5	12,100	112 ± 2	232 ± 6	7.5	---	---	96
718 ES	813	38°S	55	4,500	50 ± 3	445 ± 6	2.8	---	---	> 100
	814	44°S	60	4,500	49 ± 1	22 ± 1	2.5	---	---	> 100
	815	38°S	50	6,000	52 ± 2	842 ± 35	7.8	---	---	> 100
716 ES	816	38°S	61	21,000	121 ± 7	4620 ± 140	---	---	---	75
	817	42°S	64.5	12,600	146 ± 7	448 ± 11	3.2	---	---	88
	818	38°S	57	22,000	99 ± 7	6260 ± 180	14	28	< 0.1	85

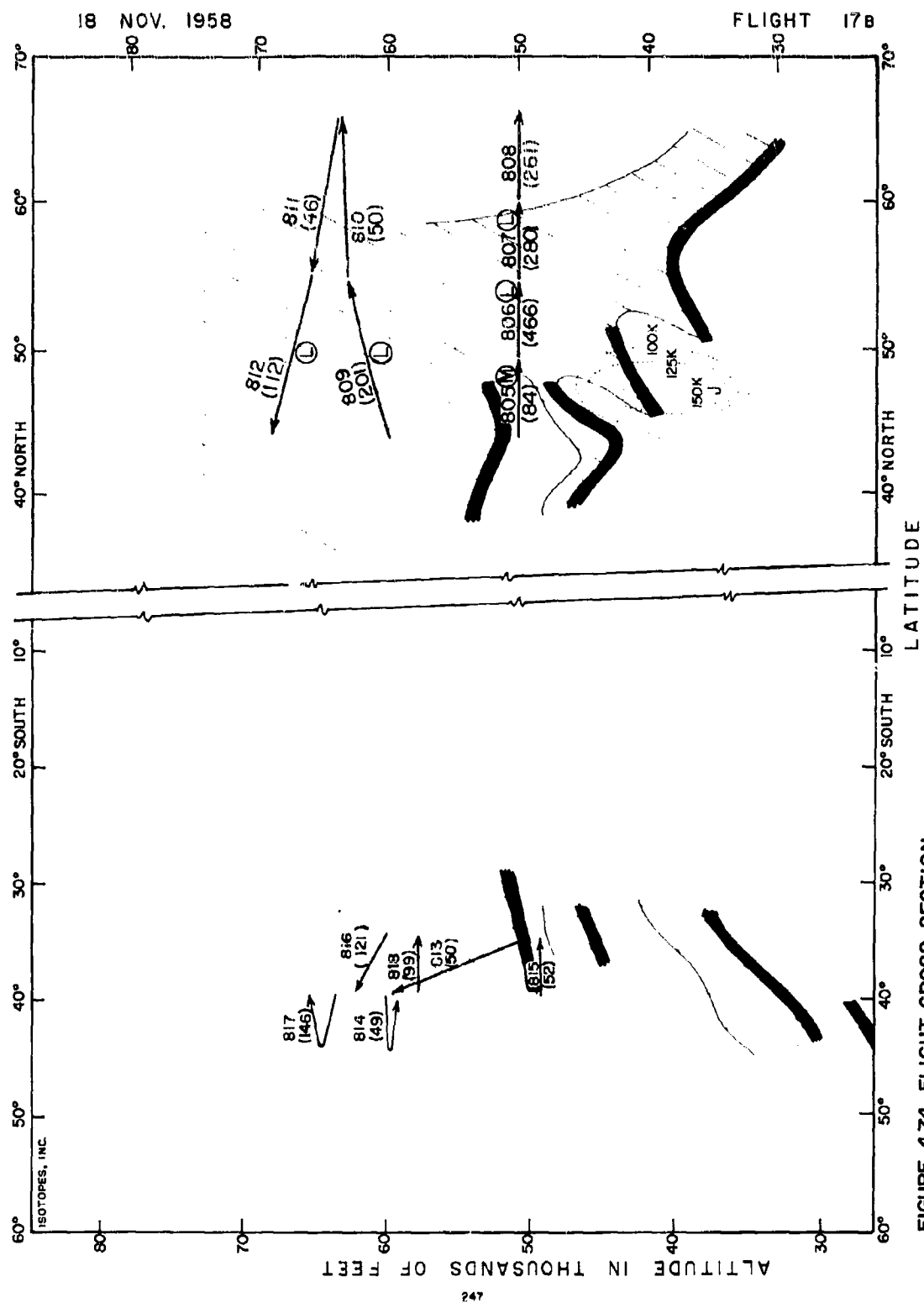


FIGURE 4.74 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm · 1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)					
20 November 1958 Special No. 2											
705 FN	819	48°N	60	75,000	245 + 6	8500 + 240	23	---	---	< 0.1	67
	820	53°N	60	29,000	125 + 4	2120 + 140	11	---	---	---	65
	821	52°N	65	15,700	104 + 4	229 + 15	11	---	---	---	> 100
	822	47°N	65	29,000	181 + 9	620 + 12	---	---	---	---	63

20 NOV. 1958

FLIGHT SPECIAL NO. 2

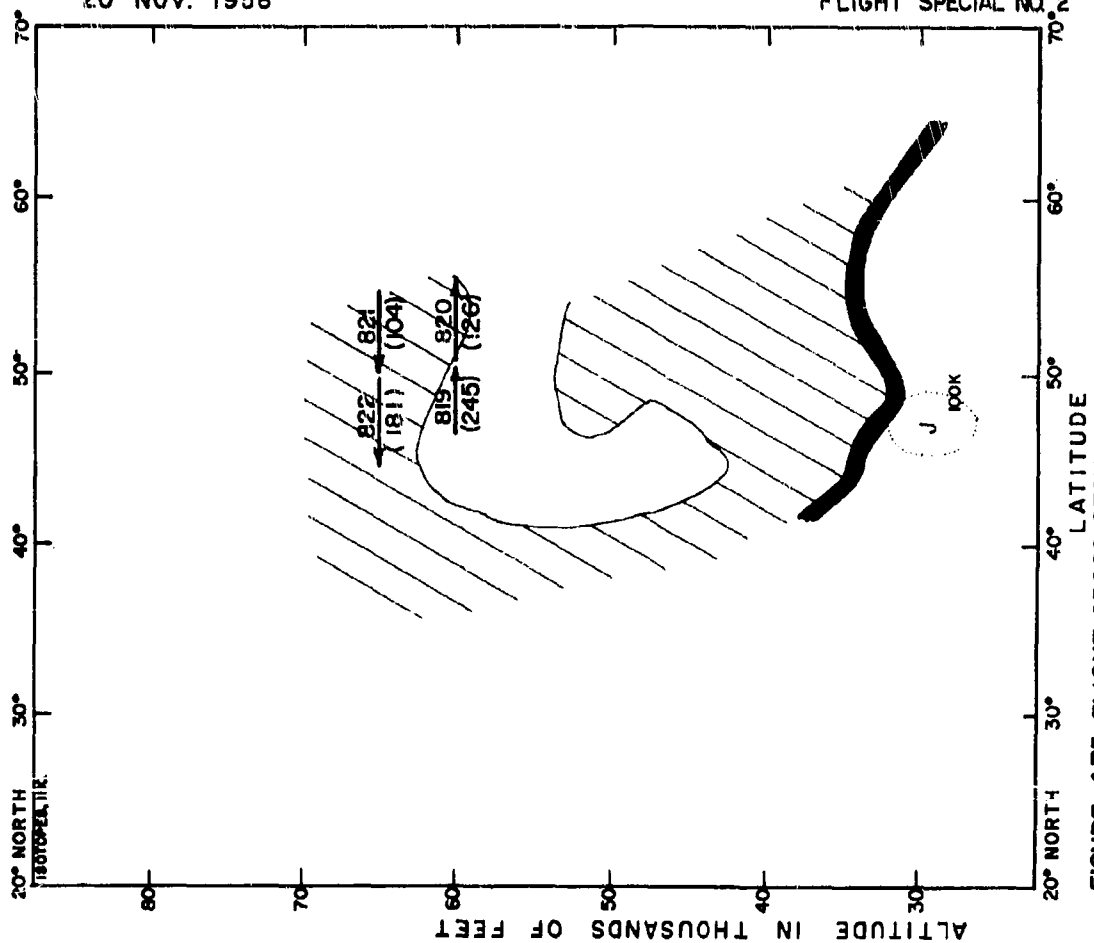


FIGURE 4.75 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	$\beta_{T1/2}$
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)						
21 November 1958 Mission 17-C												
718 EN	823	32°S	60	20,000	30 ± 2	2430 ± 90		17	---	---	---	72
	824	25°S	60	33,000	103 ± 3	4680 ± 150		25	29	<0.1		80
	825	19°S	60	25,000	81 ± 4	5240 ± 150		29	---	---		80
	826	13°S	60	54,000	125 ± 4	13770 ± 250		28	---	---		67
717 ES	827	38°S	60	8,700	62 ± 2	935 ± 50		5.9	---	---	---	> 100
	828	43°S	60	10,800	73 ± 1	658 ± 13		7.4	50	<0.1		> 100
	829	49°S	60	9,200	49 ± 1	518 ± 61		9.0	---	---	---	> 100
	830	54°S	60	8,600	67 ± 1	190 ± 6		3.9	---	---	---	> 100

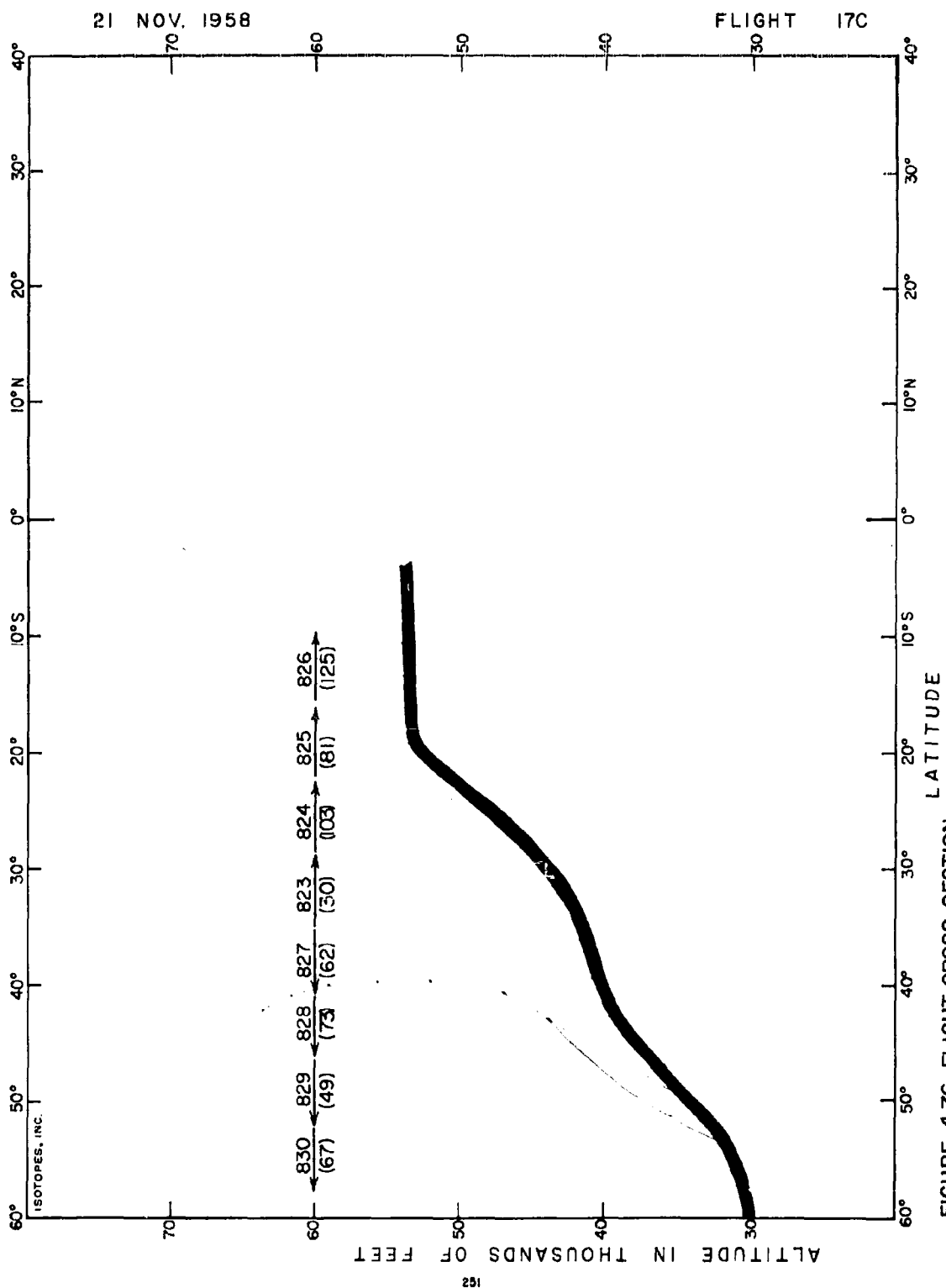


FIGURE 4.76 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	β T _{1/2}
					Sr 90	W ¹⁸⁵ (Aug 58)				
22 November 1958 Mission 18										
705 PR	831	41°N	55	129,000	232 ± 8	7750 ± 160	24	---	0.5	---
	832	35°N	55	107,000	213 ± 7	15390 ± 260	23	---	---	---
	833	29°N	55	59,000	160 ± 6	15440 ± 220	29	---	---	---
714 PR	835	41°N	60	114,000	215 ± 8	2680 ± 90	28	---	---	---
	836	35°N	60	128,000	255 ± 9	10380 ± 250	25	---	---	---
	837	29°N	60	139,000	232 ± 4	6920 ± 190	---	---	---	---
	838	23°N	60	106,000	188 ± 7	13900 ± 280	29	---	---	---

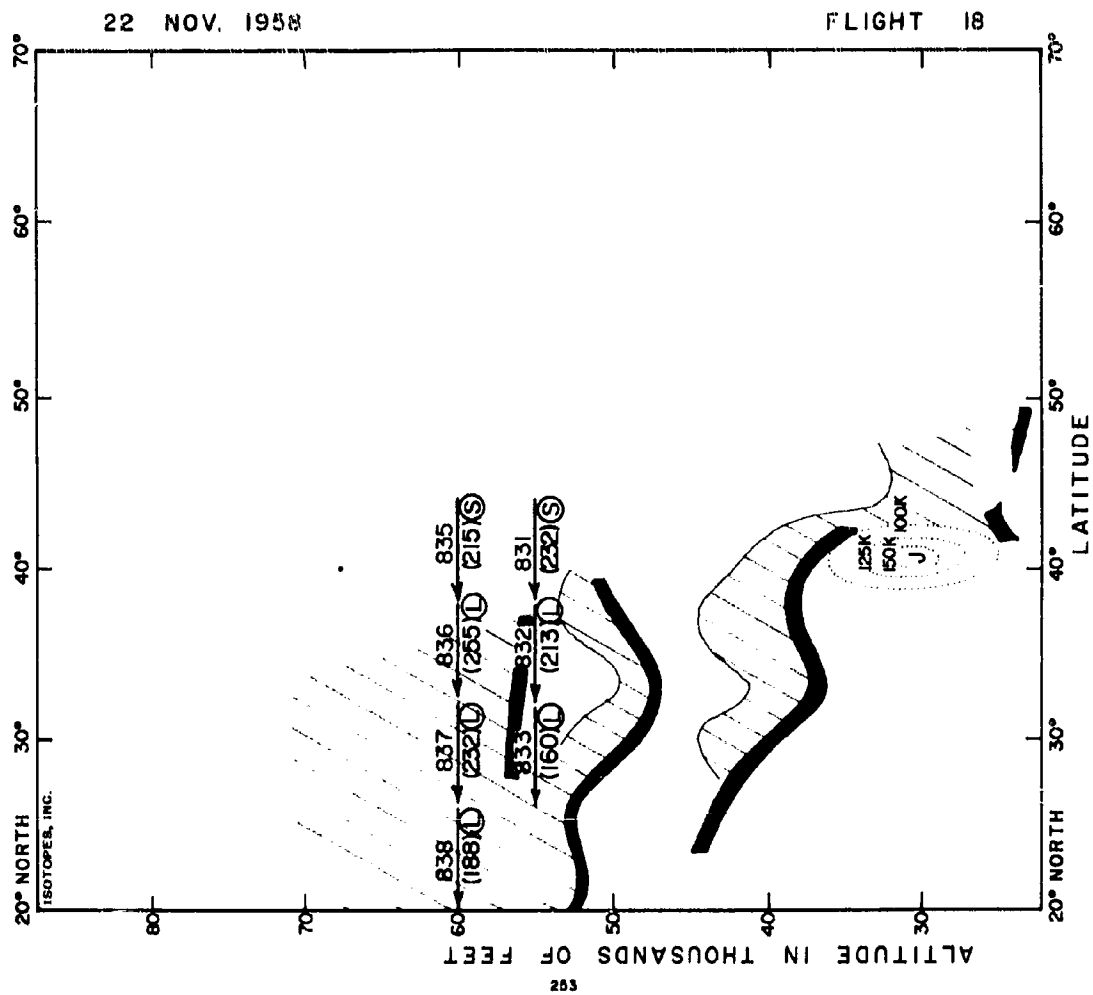


FIGURE 4.77 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
25 November 1958 Mission 16										
705 RN	845	35°N	60	99,000	248 + 9	11540 + 280	---	---	---	51
	846	30°N	60	80,000	244 + 9	23400 + 400	28	---	---	63
	847	24°N	60	93,000	240 + 6	22600 + 300	30	---	---	52
	848	19°N	60	82,000	203 + 8	16100 + 300	28	---	---	44
714 RS	849	3°S	60	65,000	189 + 3	1464 + 67	---	---	---	69
	850	2°N	60	61,000	189 + 5	19150 + 310	---	---	---	37
	851	7°N	60	104,000	287 + 7	34500 + 400	36	9.4	0.3	41
	852	13°N	60	93,000	208 + 7	14600 + 290	37	---	---	35
718 ES	842	38°S	33.5	1,030	2 + 1	94 + 7	5.1	---	---	> 100
	843	40°S	40	3,400	6 + 1	1089 + 32	11	---	< 0.2	80
	844	37°S	30	≤ 240	1.3 + 0.6	44 + 2	---	---	---	long
717 ES	839	38°S	46.5	6,000	23 + 1	1919 + 119	14	---	---	96
	840	41°S	50	11,400	35 + 3	2320 + 70	17	---	---	79
	841	38°S	55.3	40,000	167 + 6	10310 + 200	---	---	---	77

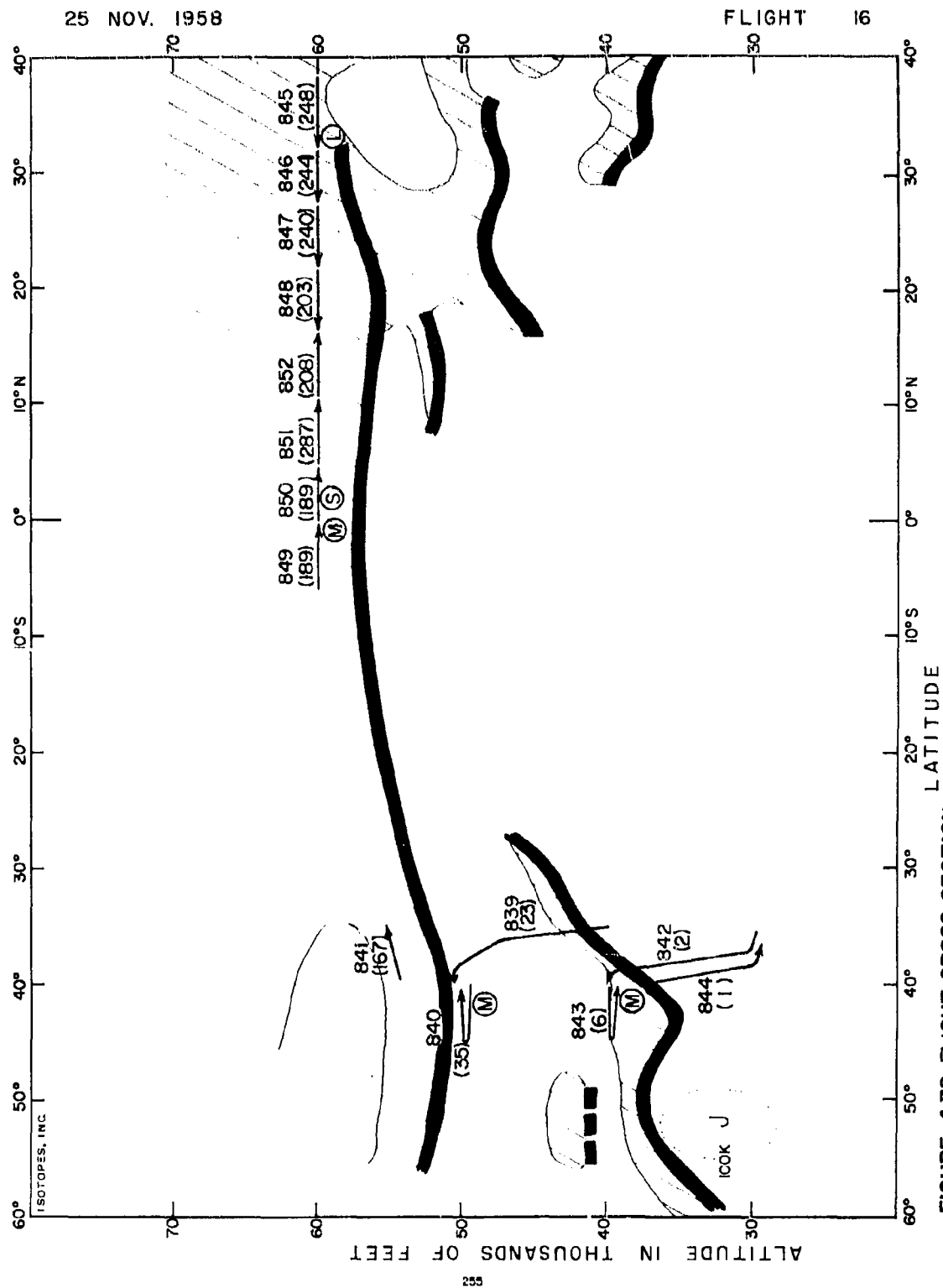


FIGURE 4.78 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
23 November 1958 Mission 19										
714 RS	853	5°S	60	23,000	77 ± 2	9690 ± 220	25	---	---	40
	854	1°N	60	35,000	112 ± 6	12750 ± 240	24	---	---	45
	855	7°N	60	78,000	164 ± 3	12970 ± 250	---	---	---	35
	856	13°N	60	81,000	200 ± 9	17200 ± 310	27	---	---	43
717 EN	857	32°S	60	14,000	66 ± 3	2030 ± 70	13	---	---	> 100
	858	26°S	60	13,900	59 ± 1	2960 ± 80	14	---	< 0.1	80
	859	20°S	60	11,800	62 ± 1	2310 ± 70	17	---	---	85
	860	13°S	60	13,600	54 ± 3	3300 ± 120	19	---	< 0.1	> 100
716 ES	861	38°S	59.5	23,000	77 ± 1	4030 ± 120	25	---	---	87
	862	43°S	60	7,300	57 ± 1	630 ± 11	5.4	---	---	> 100
	863	49°S	60	7,300	74 ± 1	≤163	3.4	---	---	> 100
	864	54°S	60.5	7,800	69 ± 3	126 ± 8	2.2	---	---	> 100

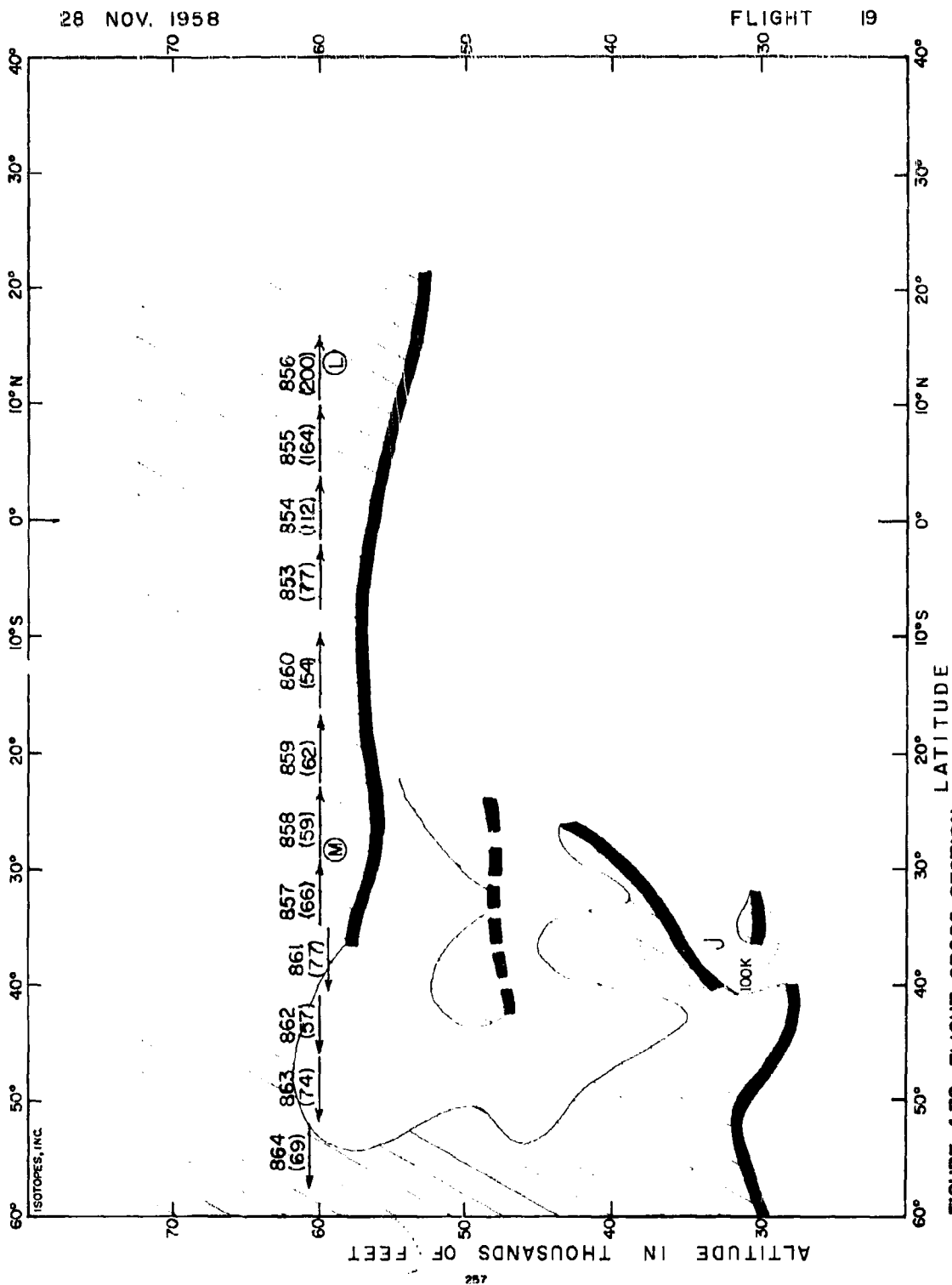


FIGURE 4.79 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)					
3 December 1958 Mission 20A											
705 RN	865	35°N	60	61,000	166 ± 7	3530 ± 120		18	---	---	33
	866	30°N	60	122,000	340 ± 11	12610 ± 280		22	---	1.0	35
	867	24°N	60	77,000	175 ± 9	15250 ± 310		24	---	---	43
	868	19°N	60	44,000	86 ± 3	9690 ± 260		27	---	---	32
714 RS	869	3°S	60	22,000	75 ± 1	7290 ± 200		20	---	---	60
	870	2°N	60	43,000	104 ± 5	15220 ± 300		27	---	---	54
	871	7°N	60	51,000	109 ± 5	13900 ± 260		24	---	< 0.1	53
	872	12°N	60	48,000	106 ± 3	10910 ± 150		32	---	---	45
716 ES	877	37°S	37	1,010	6 ± 1	25 ± 1		53	---	---	> 100
	878	42°S	40	4,300	26 ± 3	1341 ± 36		9.3	11	< 0.1	88
	879	38°S	30	780	< 5	25 ± 1		---	---	---	> 100
717 ES	880	37°S	45	8,600	29 ± 1	2390 ± 50		15	---	---	> 100
	881	42°S	50	12,400	61 ± 2	2740 ± 70		12	9.2	< 0.1	80
	882	38°S	55	17,200	65 ± 2	4140 ± 140		17	---	---	79

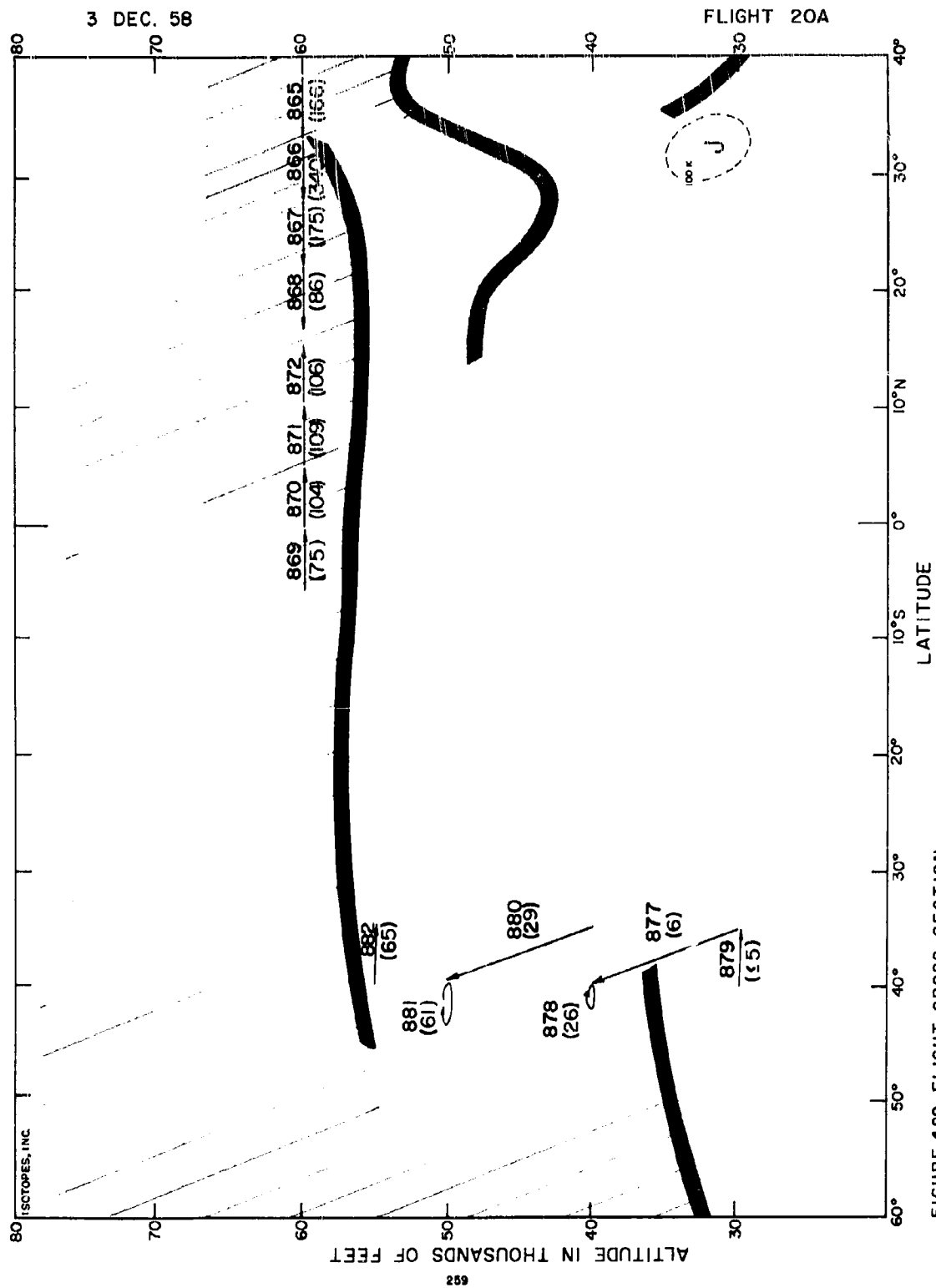


FIGURE 480 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
5 December 1958 Mission 21										
714 RS	873	5°S	60	40,000	92 ± 1	13840 ± 280	17	---	---	60
	874	1°N	60	63,000	102 ± 1	20500 ± 300	22	---	---	58
	875	7°N	60	57,000	127 ± 2	15620 ± 310	25	---	---	45
	876	13°N	60	63,000	106 ± 1	11160 ± 260	35	---	0.6	39
718 ES	883	38°S	60	10,300	96 ± 4	1576 ± 57	7.4	---	---	> 100
	884	43°S	60	5,500	58 ± 2	288 ± 45	3.9	11	---	> 100
	885	49°S	60	1,970	25 ± 1	923 ± 43	---	13	---	> 100
	886	54°S	60	5,300	86 ± 2	265 ± 26	0.8	7.1	< 1.3	> 100

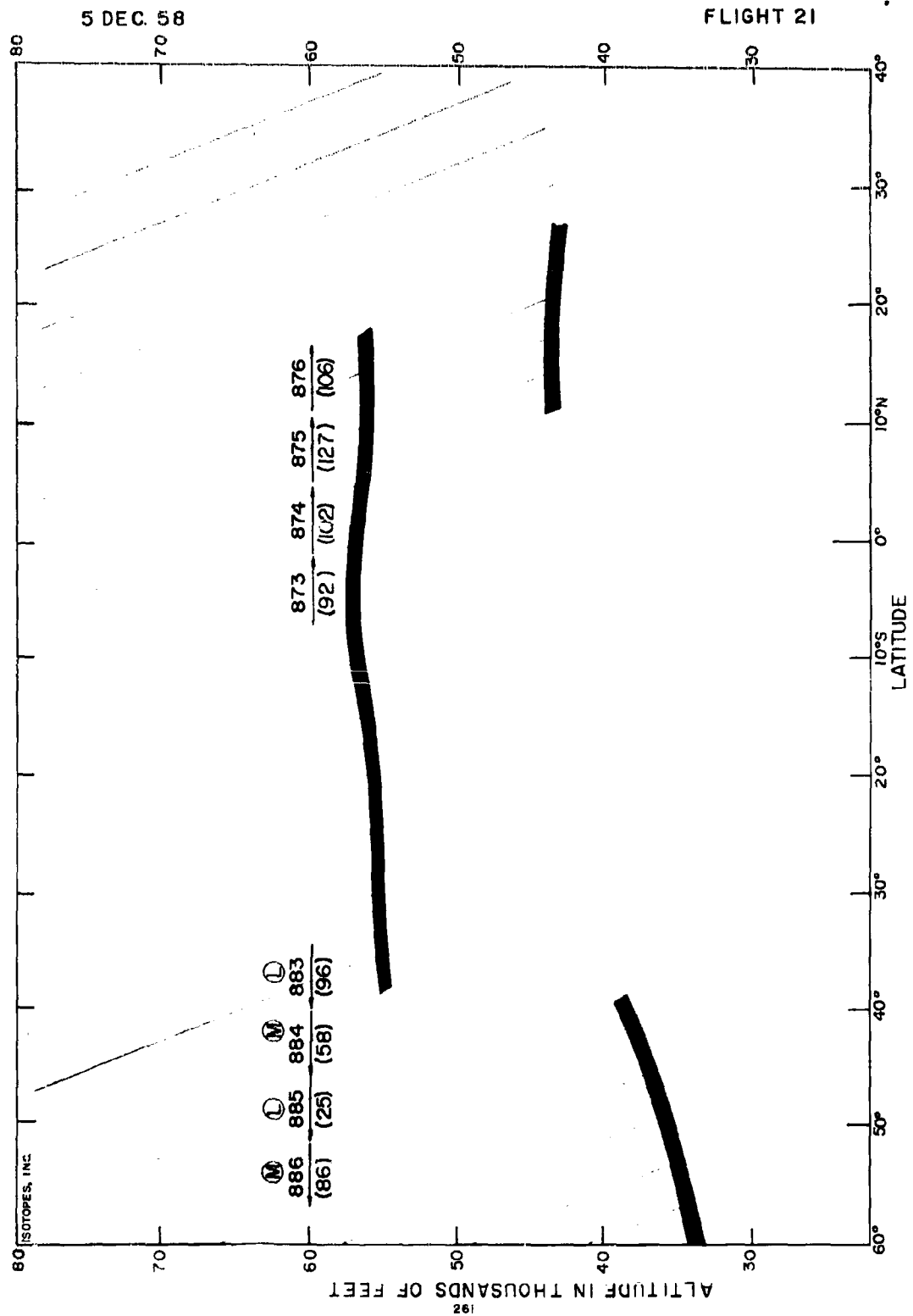


FIGURE 481 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)					
9 December 1958 Mission 22											
705 RN	887	35°N	50	19,900	42 ± 3	770 ± 160	31	---	---	<0.1	59
	888	30°N	50	21,000	44 ± 1	3050 ± 100	39	---	---	<0.1	29
	889	25°N	50	≤ 310	≤ 1	107 ± 21	---	---	---	---	long
	890	17°N	50	8,200	≤ 1	1088 ± 57	---	---	---	---	45
714 RS	891	3°S	50	930	≤ 1	197 ± 17	---	---	---	---	> 100
	892	2°N	50	360	≤ 1	188 ± 19	---	---	---	---	> 100
	893	7°N	50	920	≤ 1	1642 ± 34	---	---	---	---	> 100
	894	13°N	50	1,230	4 ± 1	1433 ± 46	20	---	---	---	> 100
718 EN	911	32°S	50	8,800	35 ± 1	3160 ± 90	15	---	---	<0.1	96
	912	25°S	50	6,300	14 ± 1	1454 ± 39	19	---	---	---	76
	913	19°S	50	4,400	6 ± 1	951 ± 33	35	---	---	---	56
	914	13°S	50	2,500	≤ 5	602 ± 9	---	---	---	---	96
716 ES	915	38°S	50	7,000	25 ± 1	2920 ± 90	18	---	---	---	97
	916	43°S	50	8,600	36 ± 1	828 ± 35	8.8	---	---	---	> 100
	917	49°S	50	9,900	46 ± 1	3060 ± 110	13	---	---	<0.1	82
	918	55°S	50	4,200	33 ± 4	772 ± 24	6.1	---	---	---	> 100

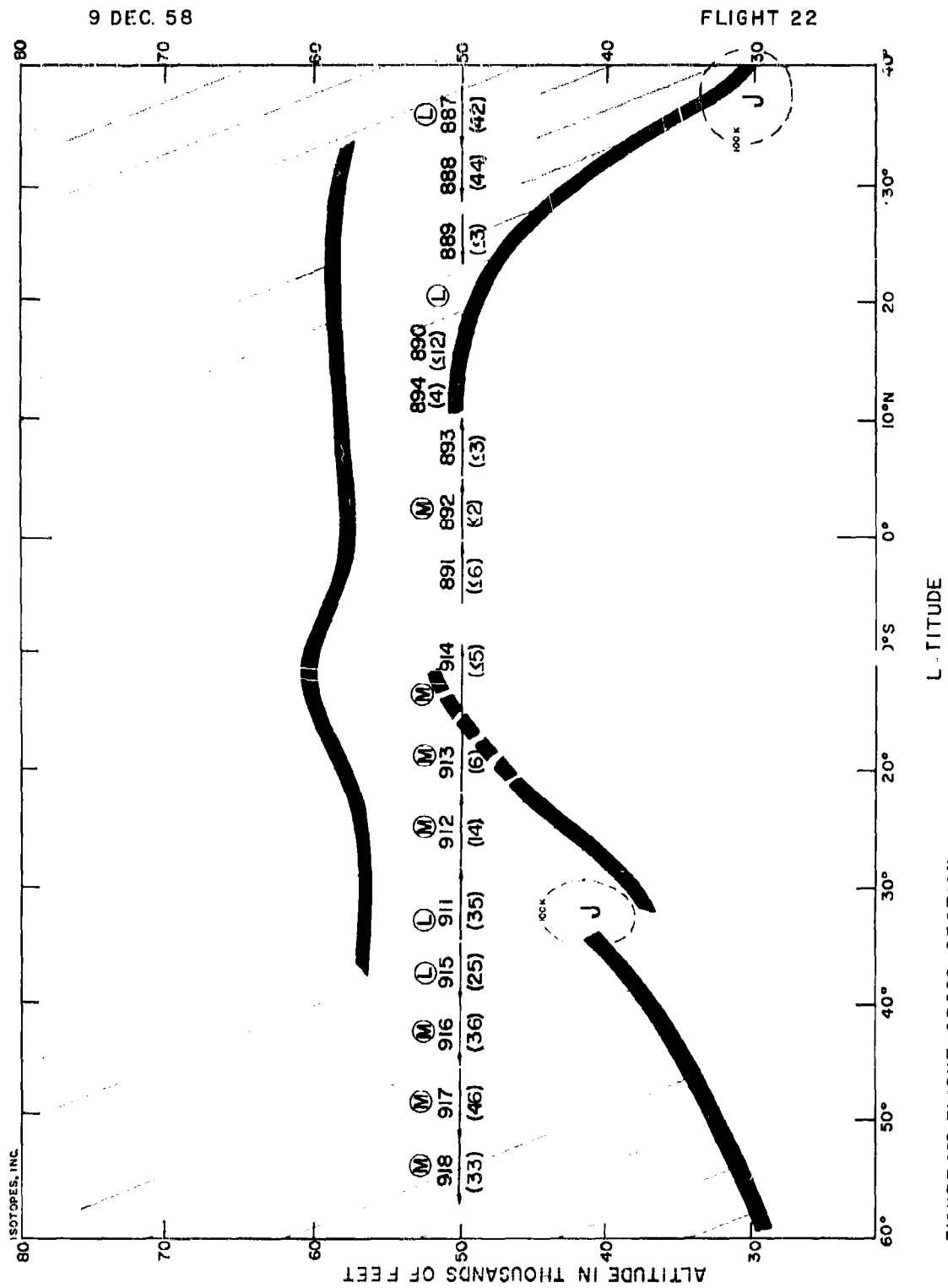


FIGURE 482 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)					
12 December 1958 Mission 23											
705 RN	903	35°N	50	91,000	330 + 10	14870 + 310	18	---	---	---	47
	904	30°N	50	106,000	257 + 8	12140 + 280	---	---	---	---	54
	905	25°N	50	59,000	169 + 5	17880 + 340	22	---	---	---	56
	906	19°N	60	48,000	177 + 6	14270 + 270	---	---	---	---	46
714 RS	907	5°S	60	48,000	156 + 7	17050 + 340	22	---	---	---	66
	908	1°N	60	60,000	184 + 8	23000 + 400	21	---	---	---	71
	909	7°N	60	82,000	203 + 9	16010 + 350	29	---	---	---	43
	910	13°N	60	96,000	206 + 8	11640 + 270	33	---	0.5	---	40
717 EN	895	32°S	60	14,700	67 + 1	3330 + 70	12	17	---	---	75
	896	26°S	60	10,800	54 + 1	4190 + 120	14	---	---	---	87
	897	20°S	60	10,400	45 + 1	3900 + 110	16	---	---	---	92
	898	13°S	60	10,200	59 + 2	4020 + 100	8.9	18	---	---	94
718 ES	899	38°S	60	6,700	43 + 10	634 + 8	8.1	---	---	---	> 100
	900	44°S	60	4,400	49 + 3	134 + 10	2.1	---	---	---	> 100
	901	50°S	60	6,600	76 + 3	101 + 10	2.8	---	---	---	> 100
	902	55°S	60	8,000	106 + 2	153 + 11	1.3	---	< 0.8	---	> 100

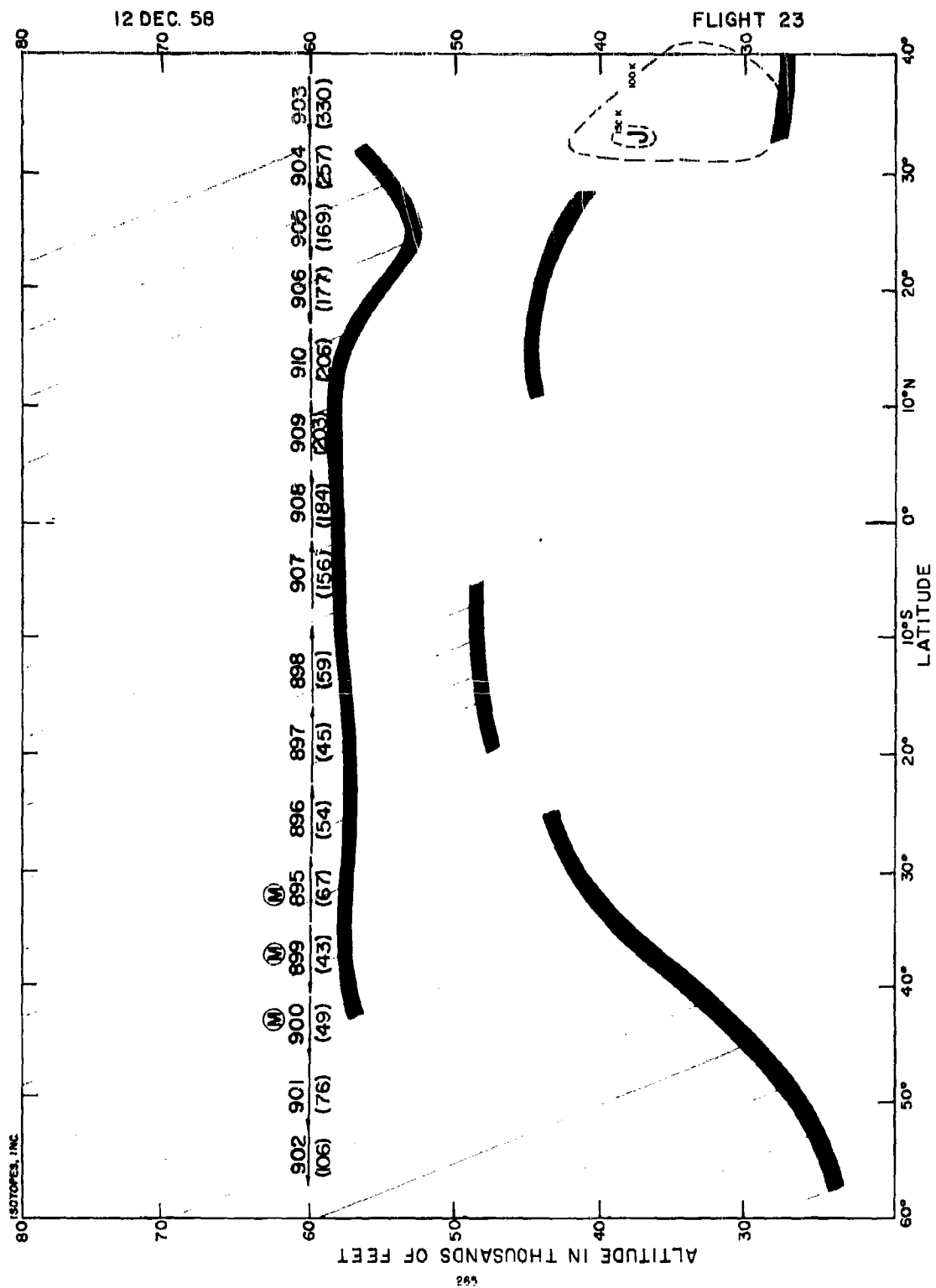


FIGURE 483 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$	$\beta T_{1/2}$	
				Total Beta	Sr^{90}	W^{185} (Aug 58)						
16 December 1958 Mission 24												
714 RN	927	36°N	55	105,000	279 + 9	14910 + 280		37	24	< 0.1	39	
	928	30°N	55	19,300	41 + 1	4130 + 120		31	27	2	53	
	929	23°N	54.5	6,500	16 + 1	1730 + 69		27	26	---	56	
	930	19°N	55	4,800	9 + 1	1431 + 43		36	47	---	63	
705 RS	931	5°S	55	4,100	13 + 1	1383 + 35		24	---	---	63	
	932	8°N	55	3,200	9 + 1	890 + 31		19	---	---	80	
	933	14°N	55	4,500	10 + 1	1161 + 48		30	---	---	70	
716 EN	919	32°S	55	11,100	29 + 2	4240 + 130		15	---	≤ 0.2	75	
	920	25°S	55	5,500	20 + 2	1997 + 40		17	---	---	68	
	922	13°S	55	1,830	7 + 1	916 + 36		12	---	---	81	
717 ES	923	38°S	55	16,900	71 + 2	7200 + 200		---	---	---	76	
	924	43°S	55	6,800	54 + 1	900 + 44		8.8	---	---	94	
	925	49°S	55	7,800	52 + 2	1536 + 71		12	---	---	93	
	926	54°S	55	6,100	50 + 2	633 + 16		6.5	---	---	> 100	

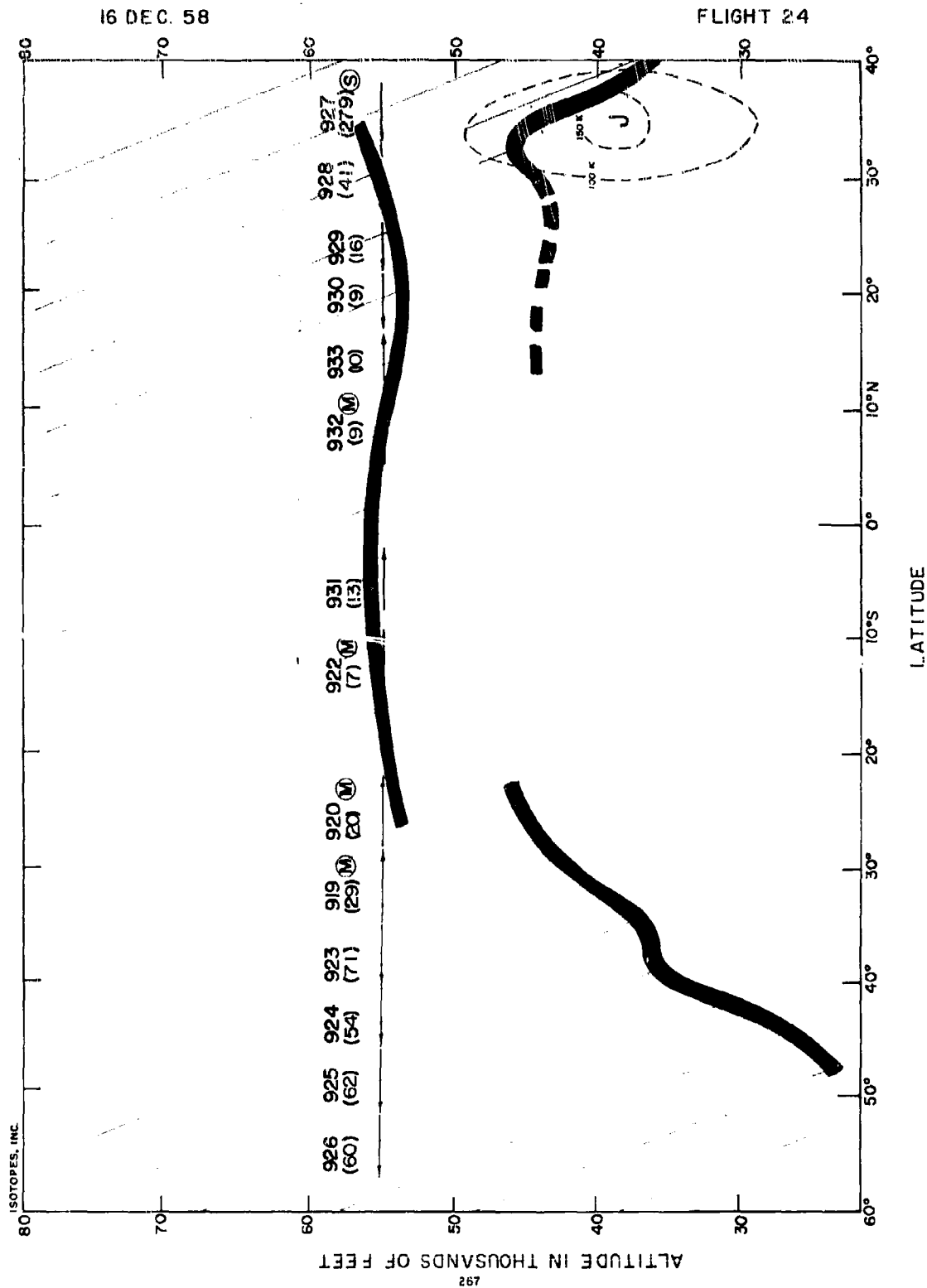


FIGURE 4B4 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$	$\beta T_{1/2}$
					Sr^{90}	W^{185} (Aug 58)						
19 December 1958 Mission 25												
714 RN	935	35°N	64.5	83,000	321 ± 13	10420 ± 330		22	---	---	---	70
	936	30°N	65	155,000	514 ± 16	20800 ± 500		26	---	< 0.1	---	83
	937	24°N	65	53,000	242 ± 9	5550 ± 180		17	---	---	---	72
	938	18°N	65	86,000	356 ± 14	10570 ± 360		23	---	---	---	64
705 RS	939	5°S	65	83,000	328 ± 11	19170 ± 420		24	---	---	---	65
	940	1°N	65	137,000	446 ± 13	32100 ± 500		---	---	---	---	67
	941	7°N	65	157,000	691 ± 12	35000 ± 600		21	---	< 0.1	---	74
	942	13°N	65	168,000	509 ± 21	26200 ± 400		23	---	---	---	64
717 EN	943	32°S	64.5	9,700	56 ± 2	1352 ± 57		8.2	---	---	---	> 100
	944	25°S	65	9,600	61 ± 1	1004 ± 15		4.9	---	---	---	91
	945	19°S	65	8,500	46 ± 1	988 ± 13		11	---	---	---	94
	946	13°S	65	12,000	68 ± 1	1914 ± 69		10	---	< 0.2	---	79
718 ES	947	38°S	65	6,800	52 ± 2	358 ± 10		4.7	---	---	---	> 100
	948	43°S	65	5,600	50 ± 1	< 146		2.4	26	---	---	> 100
	949	49°S	65	5,200	49 ± 2	< 85		2.1	19	---	---	> 100
	950	54°S	65	4,400	43 ± 2	130 ± 13		---	---	---	---	> 100

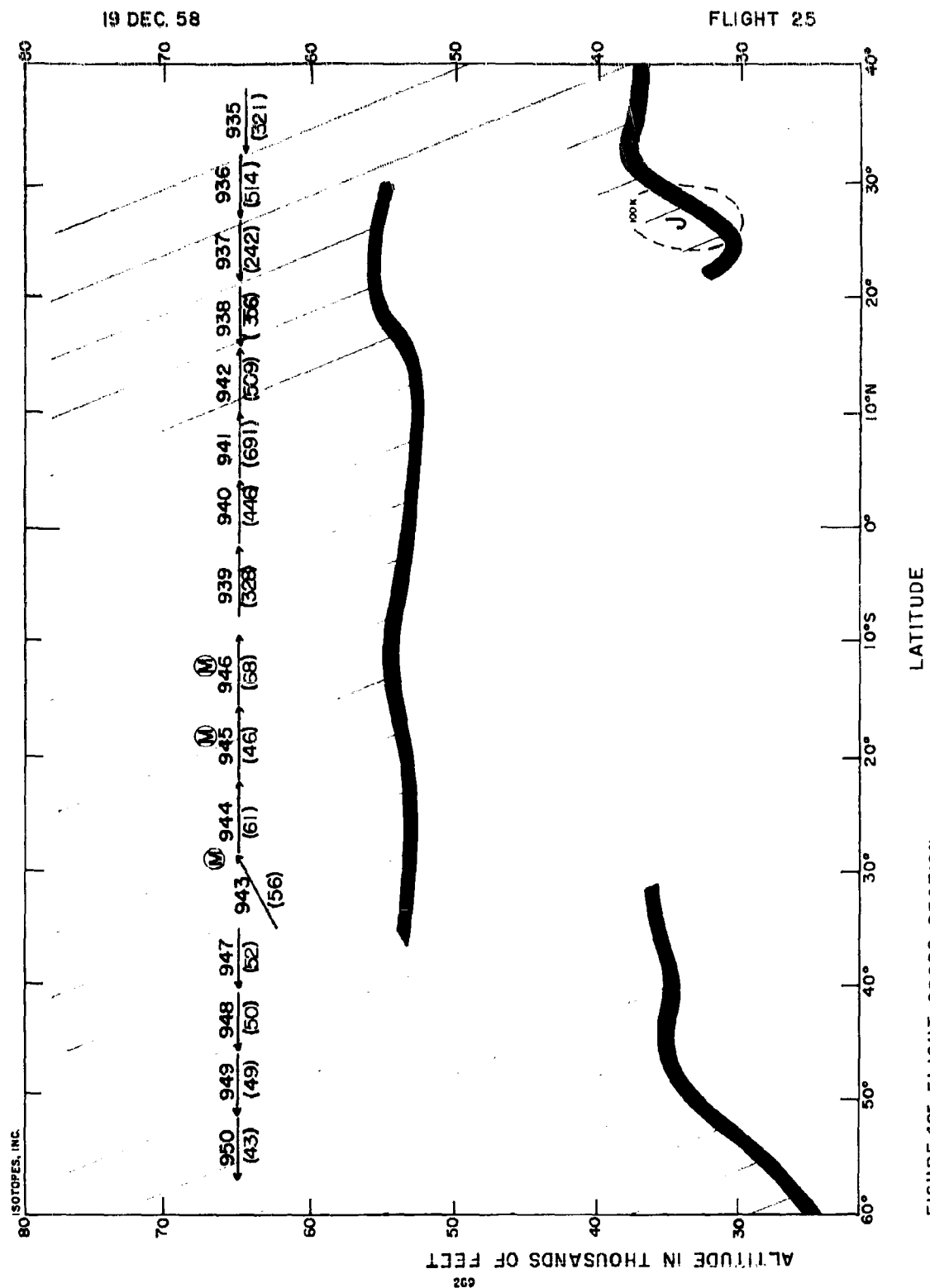


FIGURE 485 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm./1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	β T _{1/2}
					Sr 90	W 185 (Aug 58)				
23 December 1958 Mission 20 B										
705 RN	951	35°N	60	90,000	---	16370 + 380	---	---	---	64
	952	30°N	60	156,000	316 + 9	12600 + 300	30	---	0.4	46
	953	24°N	60	130,000	248 + 8	15230 + 370	33	---	---	57
	954	19°N	60	94,000	195 + 5	12940 + 310	32	---	---	54
716 EO	955	37°S	35	1,060	1.8 + 0.2	291 + 17	---	---	---	> 100
	956	38°S	31	128	4 + 1	53 + 2	6.3	---	---	> 100
	957	35°S	30	670	2 + 1	137 + 4	4.2	---	---	> 100
718 ES	958	37°S	45	3,400	16 + 1	1684 + 57	14	---	---	81
	959	42°S	50	6,300	21 + 1	2390 + 70	15	---	< 0.1	85
	960	38°S	55	10,400	36 + 1	4970 + 150	16	---	< 0.1	77

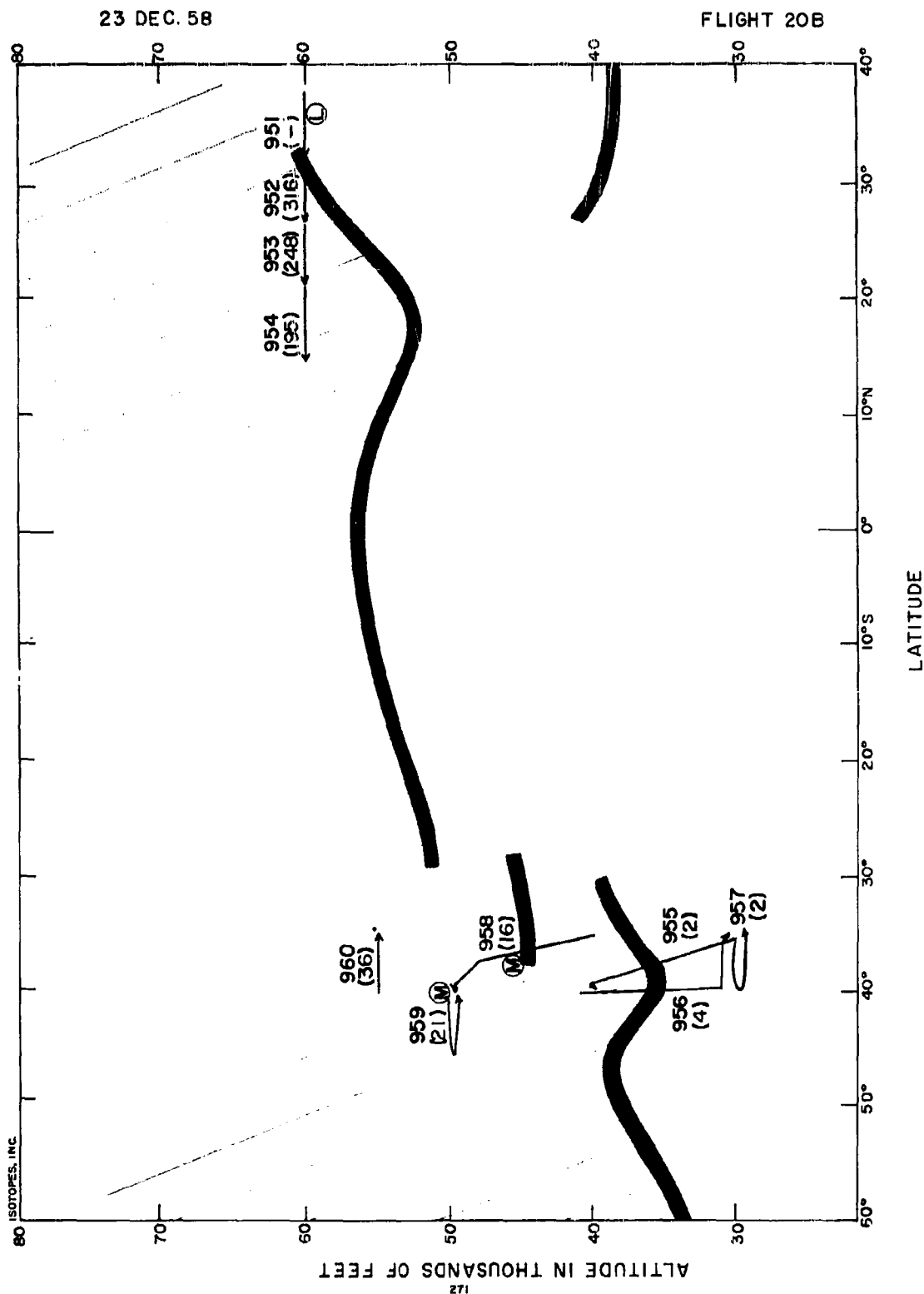


FIGURE 486 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.		HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ / Sr ⁹⁰	Ce ¹⁴⁴ / Sr ⁹⁰	Ba ¹⁴⁰ / Sr ⁸⁹	β T _{1/2}
						Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
6 January 1959 Mission 26											
714 RN	977	35°N	49.9	72,000	211 + 5		9860 + 220	26	21	<0.1	65
	978	30°N	50.1	16,100	38 + 1		2550 + 70	26	---	<0.1	80
	979	24°N	50	3,100	9 + 1		680 + 12	25	---	---	72
	980	19°N	50	430	< 8		118 + 9	---	---	---	>100
715 RS	981	3°S	50.5	1,110	4 + 1		806 + 29	9.8	---	---	99
	982	2°N	50	< 300	3 + 1		243 + 20	---	---	---	>100
	983	7°N	49	< 280	< 4		137 + 6	---	---	---	>100
	984	13°N	50	570	< 1.3		198 + 9	---	---	---	>100
717 EN	969	32°S	50	7,000	40 + 1		10150 + 180	11	---	<0.1	76
	970	25°S	50	1,850	11 + 1		764 + 34	7.2	---	---	>100
	971	25°S	50	2,300	10 + 1		1018 + 91	14	---	---	88
	972	32°S	50	6,800	38 + 2		2390 + 60	12	---	---	>100
718 ES	973	38°S	50	6,200	26 + 1		2530 + 100	11	---	---	96
	974	43°S	50	7,900	45 + 1		2320 + 40	9.1	---	---	>100
	975	49°S	50	9,300	46 + 1		3690 + 100	12	---	---	98
	976	54°S	50	10,300	50 + 2		3500 + 70	10	---	<0.1	73

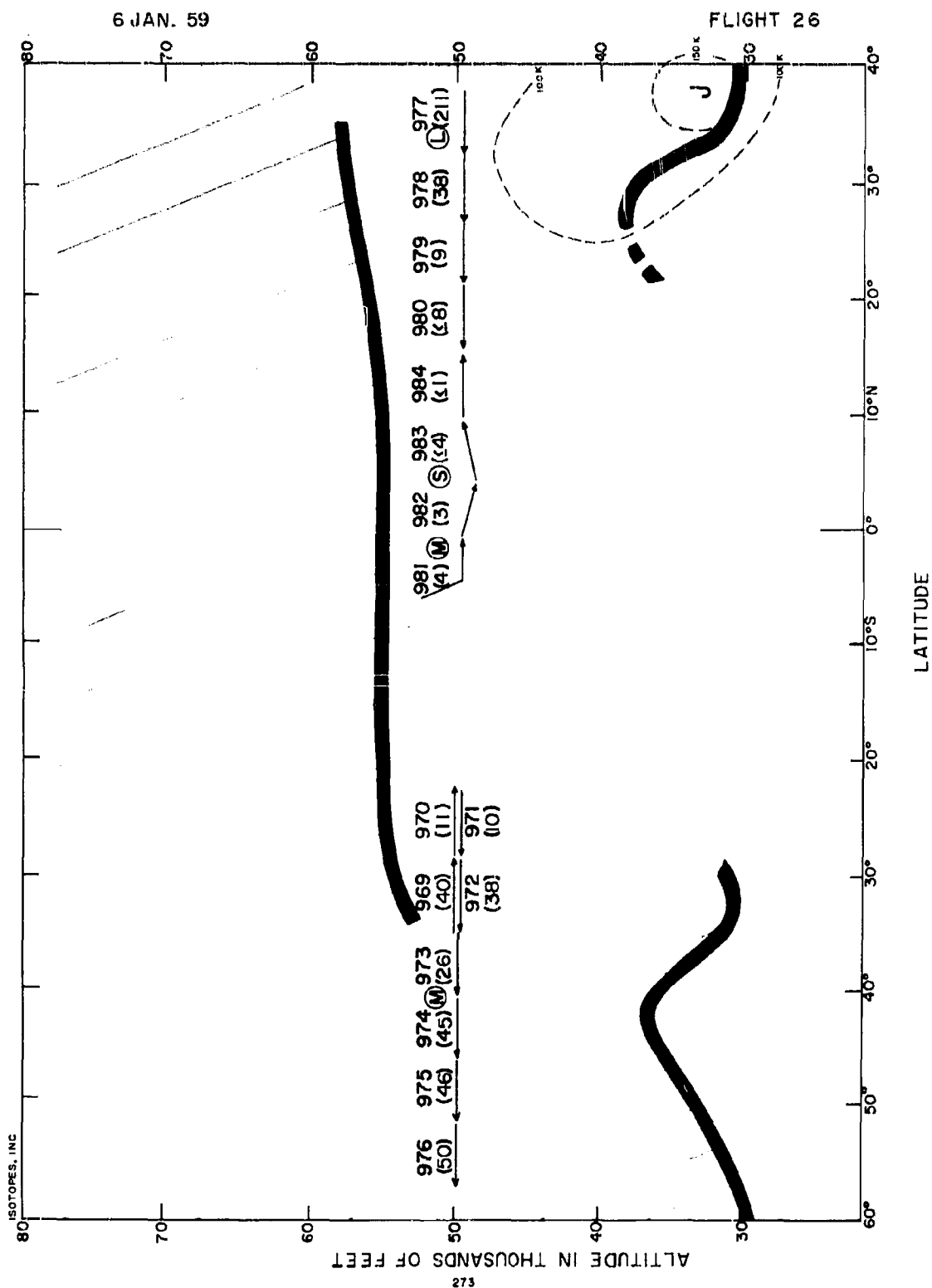


FIGURE 487 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)					
9 January 1959 Mission 27											
714 RRS	993	4°S	60	28,000	119 ± 3	12890 ± 300		---	---	---	> 100
	994	1°N	60	42,000	157 ± 5	15880 ± 330		15	---	---	87
	995	7°N	60	54,000	190 ± 6	12450 ± 310		22	---	< 0.1	75
	996	13°N	60	50,000	157 ± 6	9840 ± 290		13	---	---	63
718 EN	985	32°S	60	7,100	61 ± 2	1955 ± 74		---	---	---	> 100
	986	25°S	60	7,300	53 ± 1	2890 ± 100		---	---	< 0.1	86
	987	19°S	60	7,900	55 ± 3	3200 ± 100		7.2	---	---	98
	988	13°S	60.1	11,900	58 ± 2	5650 ± 120		---	---	---	74
716 ES	989	38°S	59.7	11,500	90 ± 4	3290 ± 100		---	---	---	> 100
	990	43°S	59.7	7,200	74 ± 2	936 ± 15		3.1	---	---	> 100
	991	49°S	60	4,700	66 ± 1	217 ± 8		2.0	---	---	> 100
	992	54°S	60	5,900	85 ± 1	288 ± 15		---	---	---	> 100

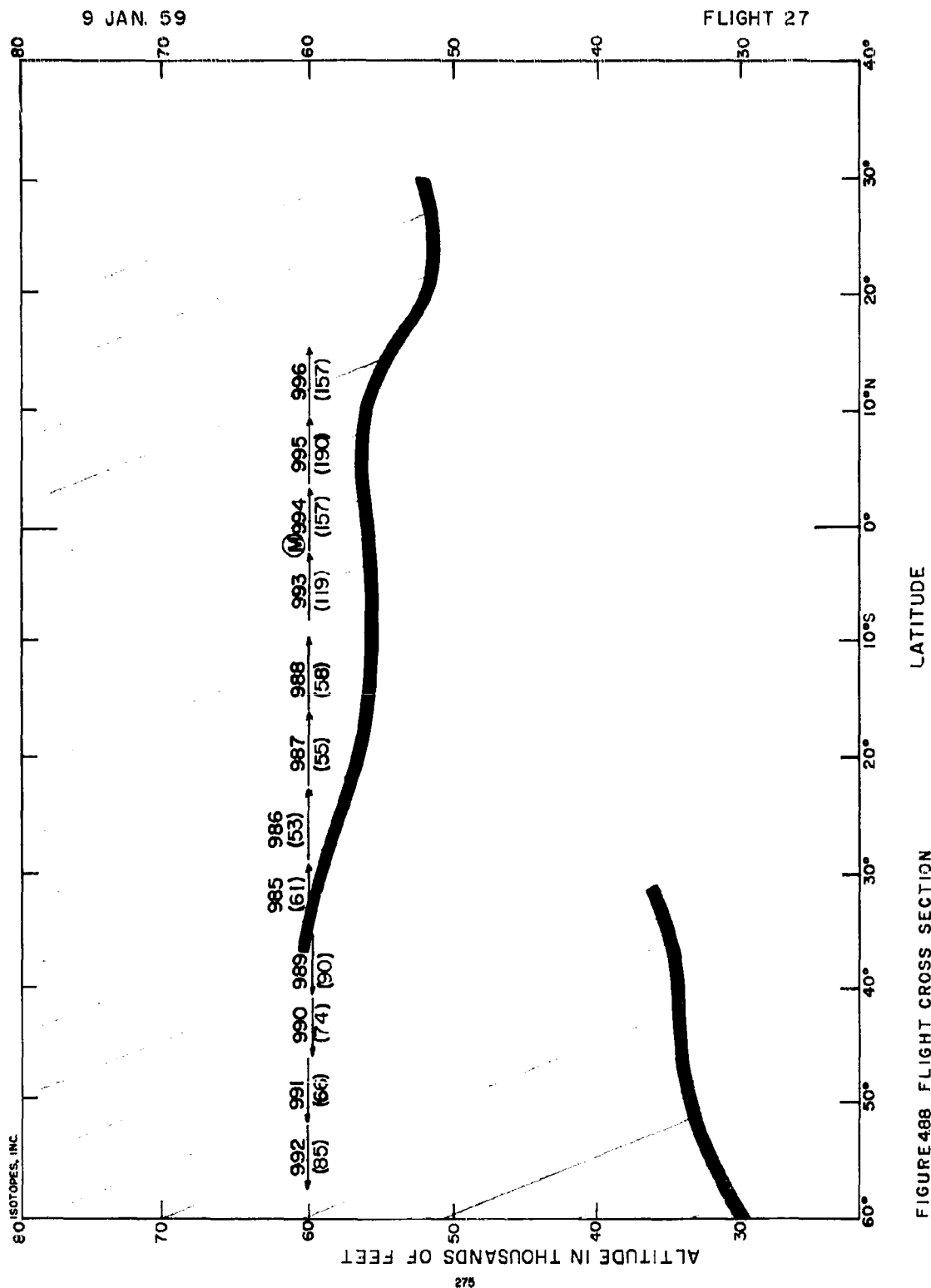


FIGURE 488 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$	$\beta T_{1/2}$
					Sr^{90}	W^{185} (Aug 58)				
13 January 1959 Mission 20C										
714 RS	997	3°S	60	29,000	146 ± 5	14680 ± 350	11	---	---	92
	1000	13°N	60	41,000	150 ± 6	4920 ± 160	6.3	---	< 0.1	89
716 ES	1001	37°S	35	350	2 ± 1	226 ± 4	6.8	---	---	> 100
	1002	42°S	40	2,200	16 ± 1	1009 ± 33	6.0	---	< 0.1	> 100
	1003	38°S	30	620	≤ 0.1	94 ± 4	---	---	---	> 100
717 ES	1004	37°S	45	3,400	14 ± 1	1488 ± 37	5.8	---	---	> 100
	1005	42°S	50	6,500	36 ± 2	2350 ± 40	7.2	---	< 0.1	> 100
	1006	38°S	55	8,200	36 ± 1	4130 ± 90	12	---	---	89

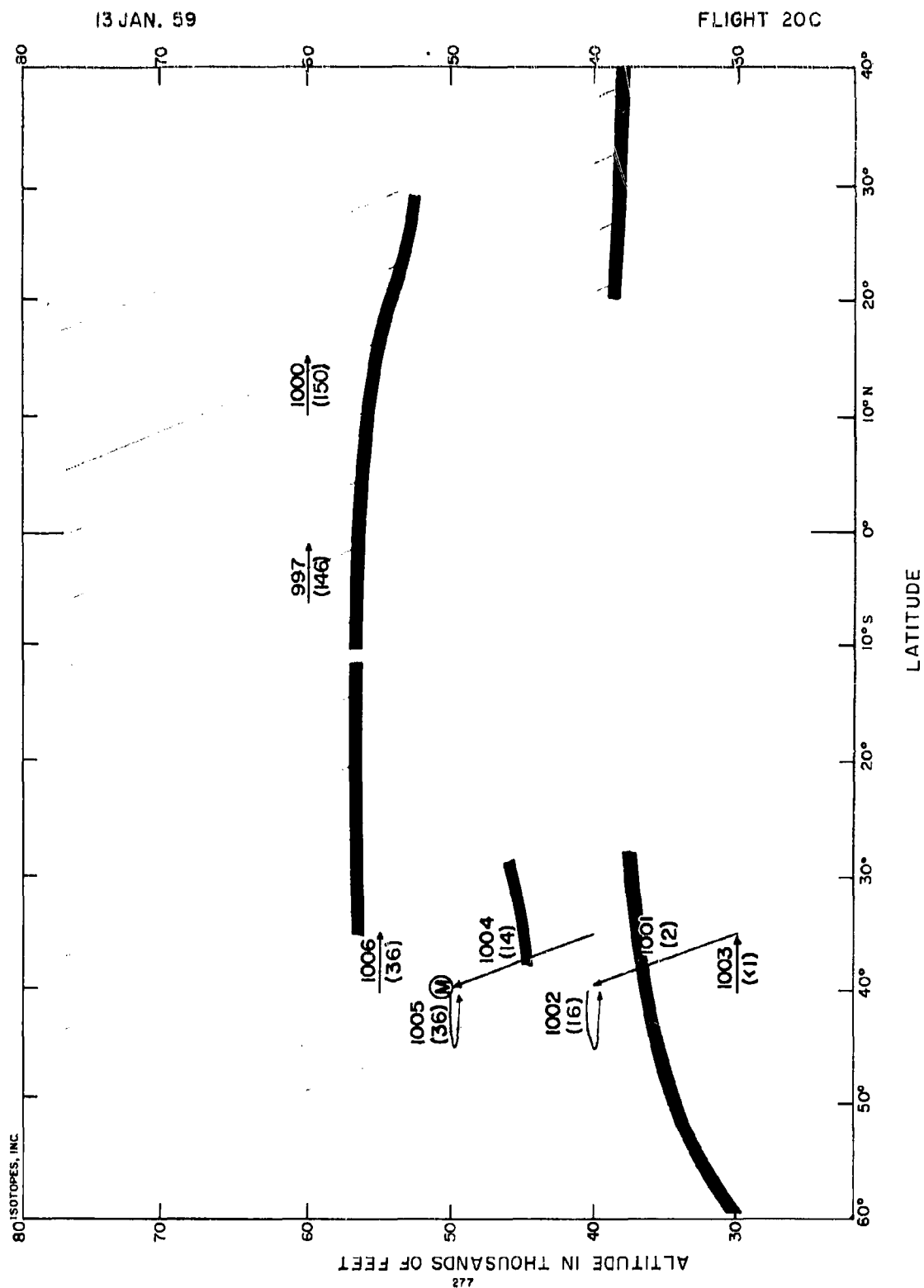


FIGURE 4.89 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)					
16 January 1959 Mission 29											
714 RN	1007	35°N	64.5	21,000	127 + 7	1361 + 19	18	---	---	<0.1	78
	1008	30°N	65	18,800	155 + 14	Impure	9.8	---	---	---	>100
	1009	24°N	65	45,000	282 + 13	4640 + 120	14	---	---	---	>100
	1010	19°N	65	75,000	347 + 6	11460 + 340	---	---	---	---	84
705 RS	1011	5°S	65	80,000	385 + 10	24600 + 500	17	---	---	---	90
	1012	1°N	65	82,000	308 + 10	28900 + 600	14	---	---	---	79
	1013	7°N	65	112,000	323 + 14	29600 + 600	14	---	---	<0.1	90
	1014	13°N	65	91,000	313 + 11	4520 + 170	13	---	---	---	>100
717 EN	1015	32°S	64.5	7,100	61 + 3	1092 + 26	4.7	---	---	---	>100
	1016	25°S	65	6,100	58 + 32	Impure	6.3	---	---	---	>100
	1017	18°S	65	7,900	65 + 2	1596 + 91	17	---	---	---	>100
	1018	13°S	65	16,700	106 + 5	4200 + 140	---	---	---	---	>100
718 ES	1019	38°S	64	6,900	86 + 2	500 + 31	---	---	---	---	>100
	1020	43°S	64.5	8,800	100 + 1	391 + 15	---	---	---	---	>100
	1021	49°S	64.5	7,700	93 + 2	874 + 86	---	---	---	---	>100
	1022	38°S	50	6,300	30 + 1	2470 + 70	7.8	---	---	<0.2	>100

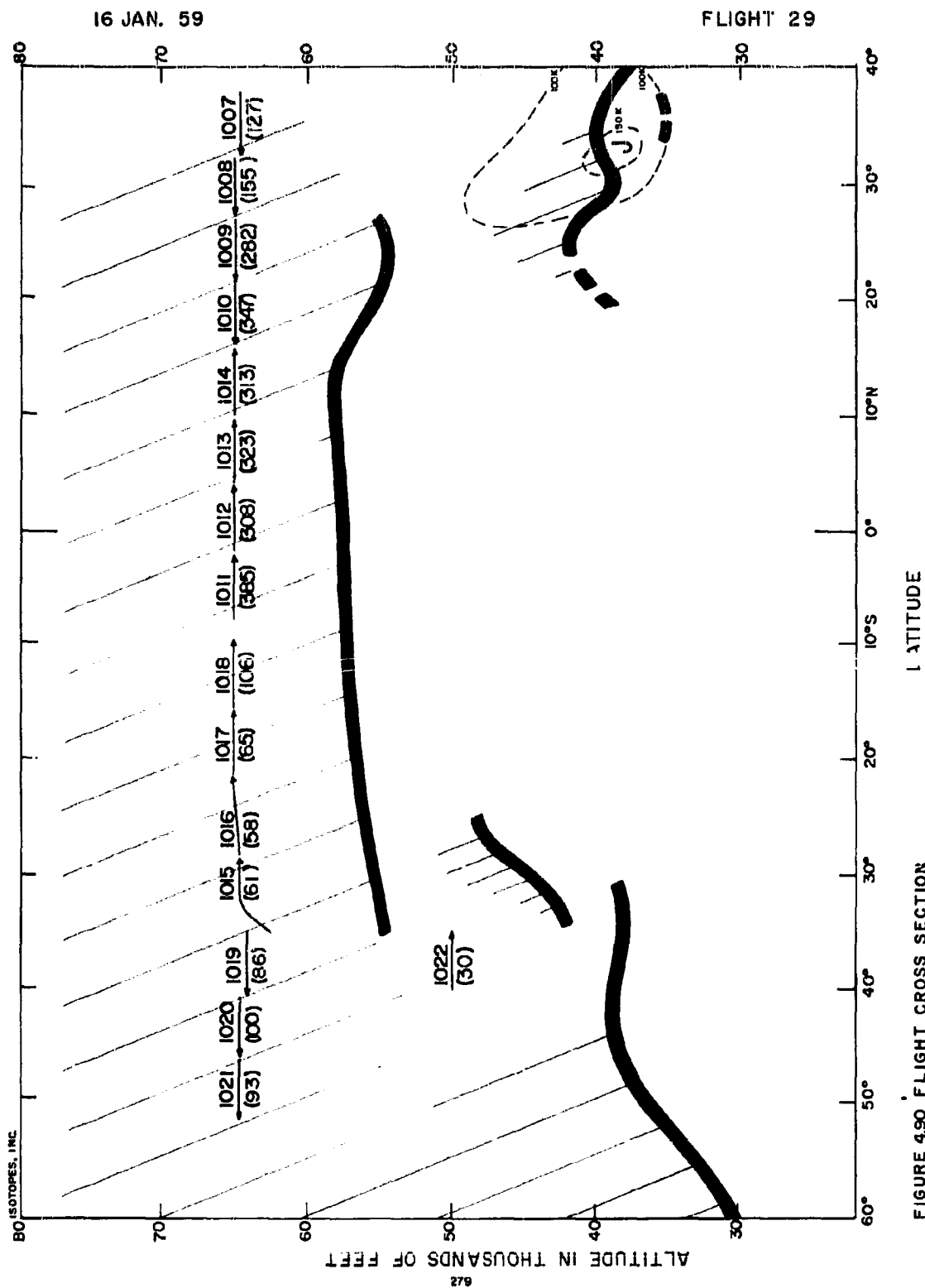


FIGURE 4.90 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
19 January 1959 Mission 30A										
714 RP	1023	23°N	65	64,000	288 + 11	9290 + 200	13	---	<0.1	79
	1024	29°N	65	48,000	290 + 2	5970 + 450	12	---	---	> 100
	1025	35°N	66	37,000	245 + 11	1389 + 42	10	---	---	> 100
	1026	41°N	66.5	13,200	139 + 1	<331	27	---	<0.1	> 100

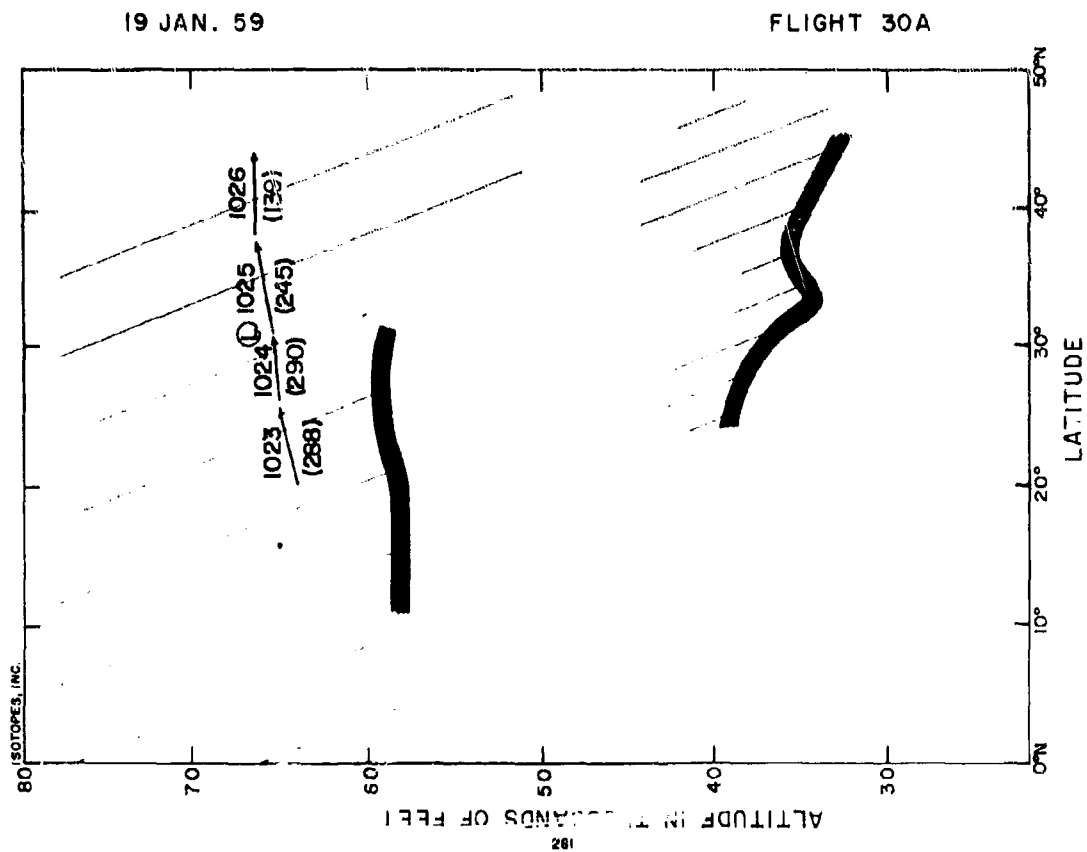


FIGURE 491 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	$\beta T_{1/2}$	
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)						
22 January 1959 Mission 30B												
718 EN	1027	32°S	50	2,500	12 ± 2	1211 ± 8	11	23	---	---	> 100	
	1028	25°S	49.8	810	1.0 ± 0.2	265 ± 6	---	---	---	---	> 100	
	1029	19°S	50	< 193	< 0.5	62 ± 4	---	---	---	---	---	
	1030	13°S	50	< 250	< 0.4	Impure	---	---	---	---	---	
717 ES	1031	38°S	50	5,200	27 ± 3	2190 ± 60	7.9	---	< 0.2	---	> 100	
	1032	43°S	50	5,100	30 ± 16	2250 ± 60	13	---	---	---	> 100	
	1033	49°S	49.5	5,600	27 ± 2	2630 ± 70	9.4	---	---	---	> 100	
	1034	54°S	49.8	6,700	43 ± 2	2320 ± 70	5.4	27	< 0.2	---	> 100	

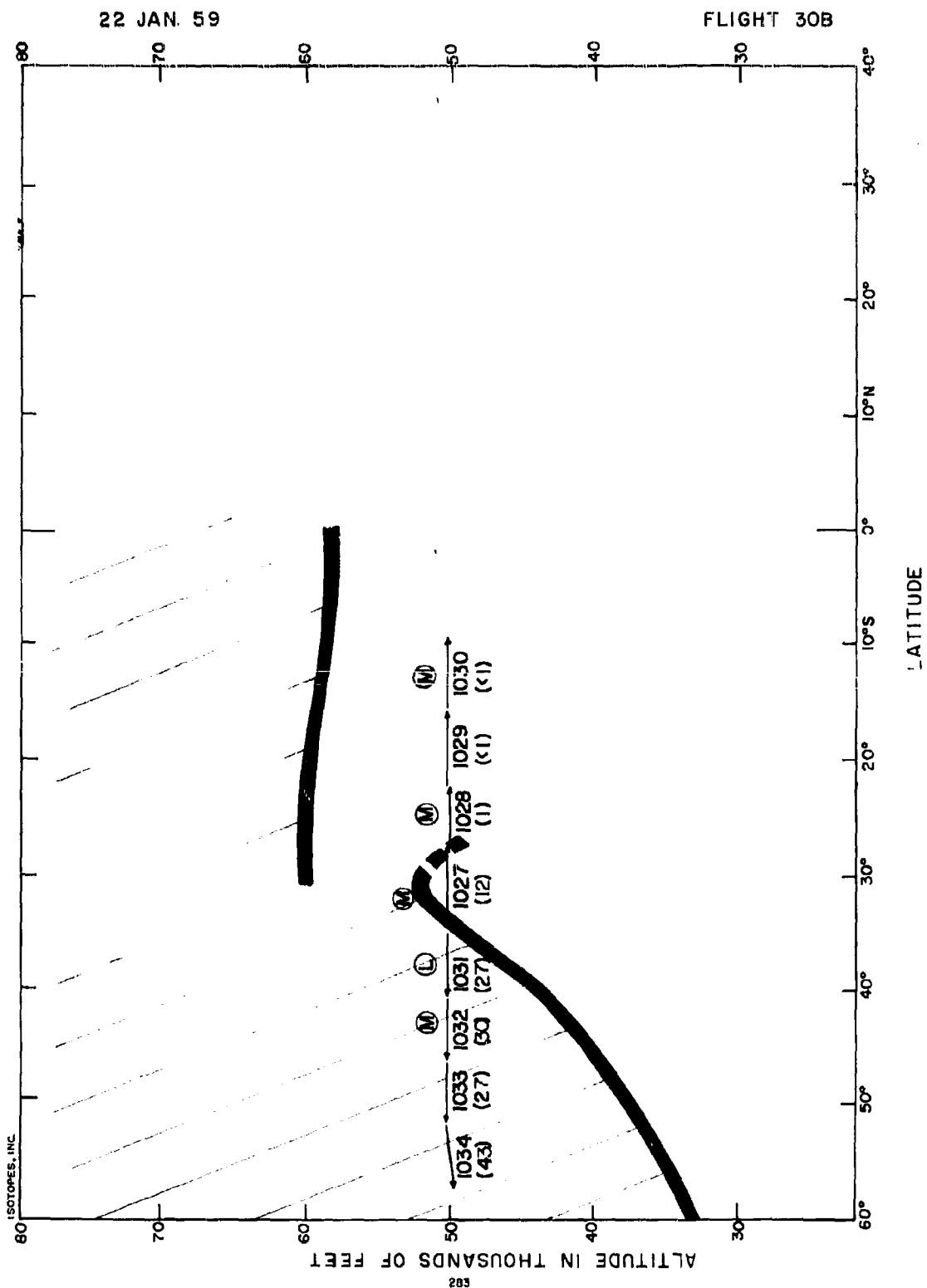


FIGURE 4.92 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/100 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	$\beta T_{1/2}$	
					Sr 90	W 185 (Aug 58)					
25 January 1959 Mission 30D											
714	1035	41°N	60	49,000	266 +	5810 + 170	---	13	---	> 100	
PR	1036	35°N	60	48,000	243 +	5250 + 140	12	---	---	96	
	1037	30°N	60	52,000	232 +	8800 + 280	13	---	---	77	
	1038	23°N	60	58,000	180 +	11000 + 340	---	---	---	58	

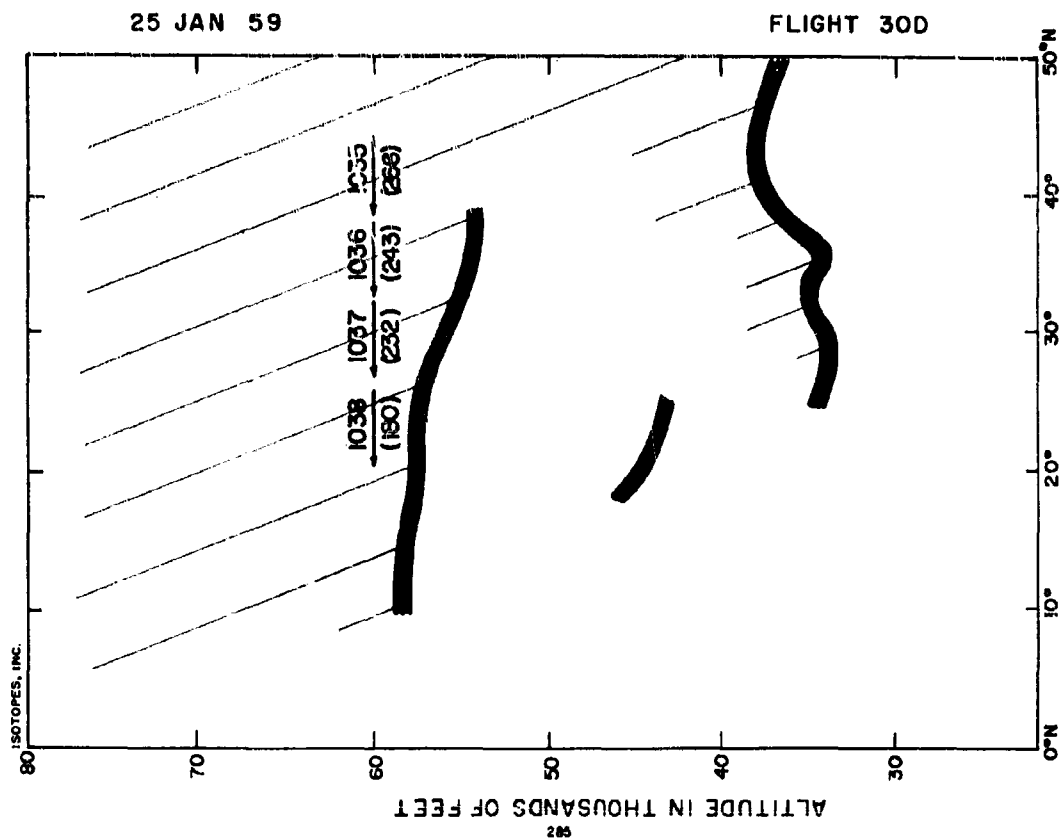


FIGURE 493 FLIGHT CROSS SECTION

Table 4. (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	$\beta T_{1/2}$
					S-90	W ¹⁸⁵ (Aug 58)						
28 January 1959 Mission 28												
714 EN	1039	18°N	55	5,900	15 ± 1	1119 ± 49		12	---	---	---	72
	1040	24°N	55	4,000	10 ± 2	959 ± 15		16	---	---	---	94
	1041	29°N	55	13,300	29 ± 1	2360 ± 80		23	---	---	---	80
	1042	34°N	55	32,000	121 ± 5	1716 ± 60		17	---	< 0.1	---	100
705 RS	1043	13°N	55	5,100	17 ± 1	1354 ± 43		21	---	---	---	86
	1044	7°N	55	11,200	58 ± 2	1819 ± 47		24	---	< 0.1	---	> 100
717 EN	1047	32°S	55	3,600	18 ± 1	1861 ± 58		12	---	---	---	> 100
	1048	25°S	55	2,900	12 ± 1	5220 ± 160		12	---	---	---	> 100
	1049	19°S	55	1,620	6 ± 1	752 ± 20		16	---	---	---	88
	1050	13°S	55	2,300	6 ± 1	653 ± 33		14	---	---	---	> 100
716 ES	1051	38°S	55	5,800	28 ± 1	2830 ± 74		9.1	---	---	---	90
	1052	43°S	55	6,700	47 ± 2	2340 ± 75		5.2	---	≤ 0.2	---	> 100
	1053	49°S	55	5,400	59 ± 1	1119 ± 18		3.2	---	≤ 0.3	---	> 100
	1054	38°S	67	5,200	66 ± 8	89 ± 12		0.8	---	---	---	> 100

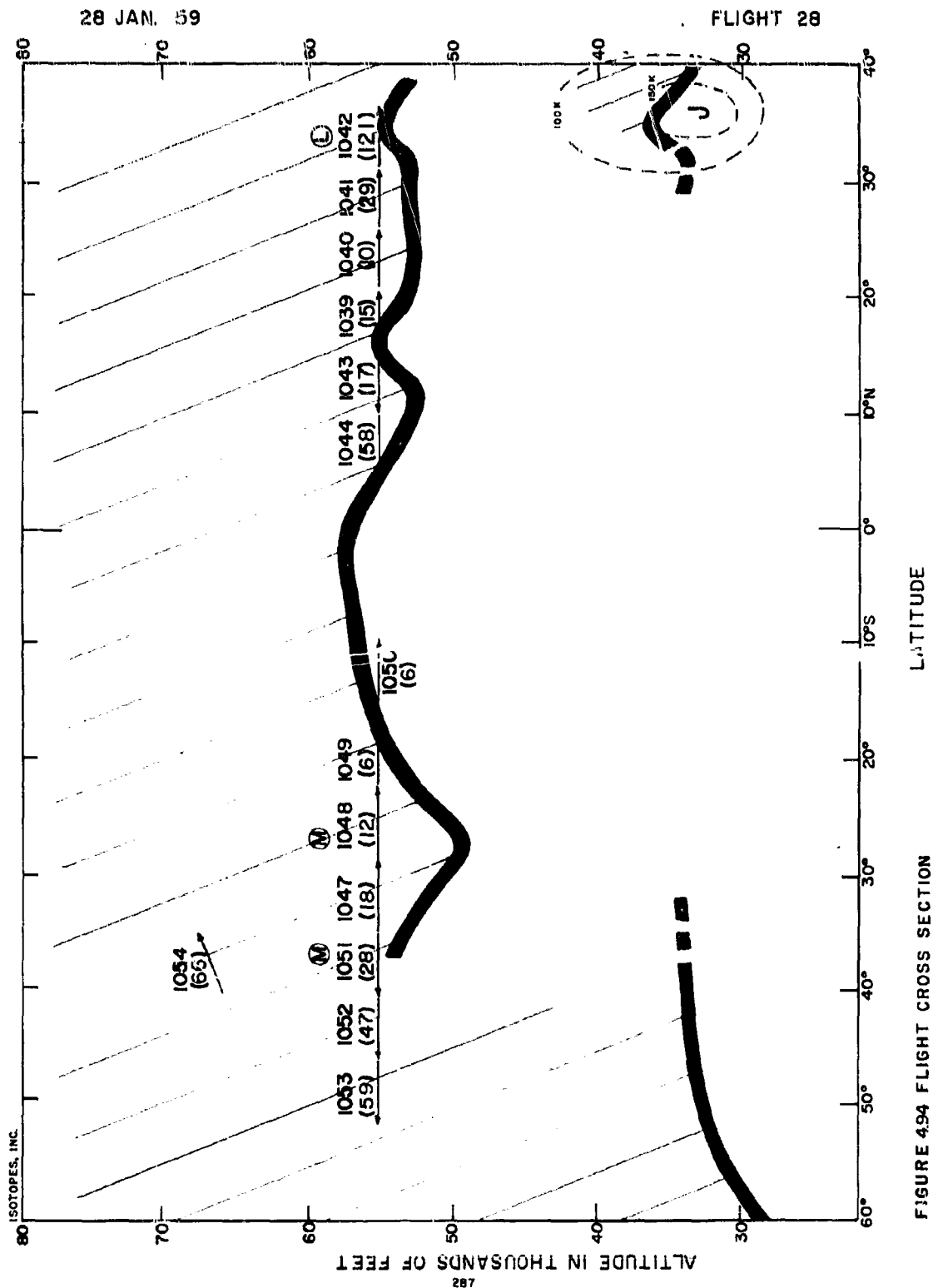


FIGURE 4.94 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF										
AC No.	HASP No.	Latitude	Altitude	Total Beta	Sr 90		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	β T _{1/2}
					Sr 90	W 185 (Aug 58)				
3 February 1959 Mission 30E										
715 RN	1063	19°N	50.3	< 890	3 + 1	210 + 13	< 13	---	---	---
	1064	24°N	50	1,460	3 + 1	210 + 13	< 13	---	---	> 100
	1065	30°N	49.3	< 1,290	3 + 1	210 + 13	< 13	---	---	---
714 ES	1067	13°N	50	< 1,090	1.8 + 0.1	130 + 13	---	---	---	---
	1068	8°N	50	1,270	1.8 + 0.1	130 + 13	---	---	---	> 100
	1069	2°N	50	≤ 680	1.8 + 0.1	130 + 13	---	---	---	---
	1070	3°S	50	< 1,070	1.8 + 0.1	130 + 13	---	---	---	---
716 EN	1055	30°S	50	780	3 + 1	240 + 8	7.4	---	---	> 100
	1056	26°S	50	640	3 + 1	240 + 8	7.4	---	---	> 100
	1057	19°S	50	600	3 + 1	240 + 8	7.4	---	---	> 100
	1058	13°S	50	< 260	3 + 1	240 + 8	7.4	---	---	---
717 ES	1059	38°S	50	2,600	10 + 2	1215 + 13	8.3	---	---	> 100
	1060	43°S	50	4,800	26 + 5	2150 + 50	6.0	17	< 0.3	> 100
	1061	49°S	50	5,500	50 + 1	2670 + 30	4.8	---	---	> 100
	1062	54°S	50	5,700	47 + 2	2170 + 100	4.6	---	< 0.2	> 100

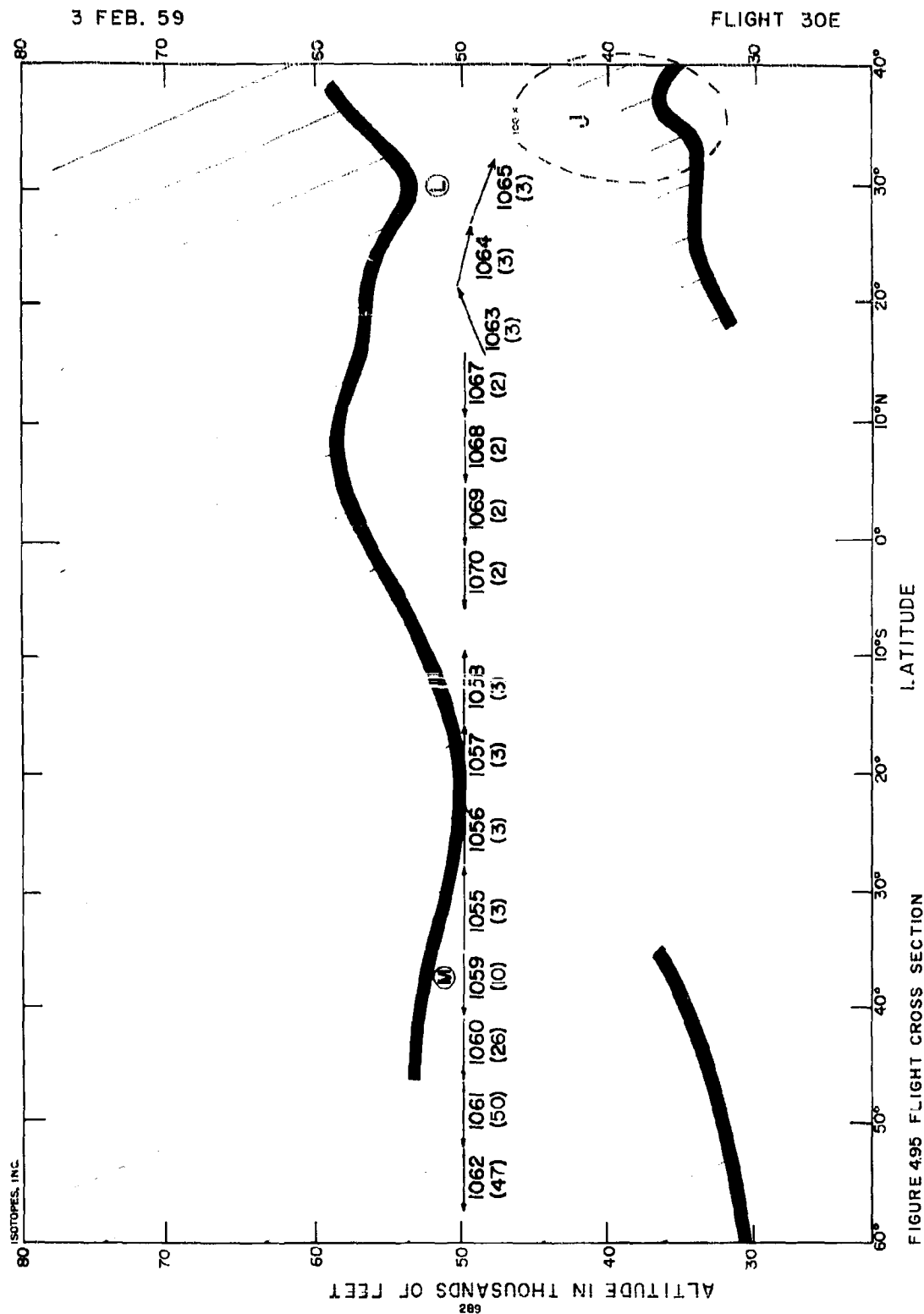


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
6 February 1959 Mission 31										
714 RN	1071	19°N	59.3	36,000	104 ± 7	7440 ± 160	16	---	---	> 100
	1072	24°N	60	32,000	101 ± 2	6890 ± 140	18	---	---	75
	1073	29°N	60	39,000	144 ± 5	9270 ± 150	14	---	---	> 100
	1074	35°N	59.6	45,000	159 ± 6	10210 ± 200	15	---	< 0.1	> 100
705 RS	1075	13°N	60	33,000	133 ± 7	7750 ± 180	11	---	---	> 100
	1076	7°N	60	19,400	70 ± 1	6530 ± 160	14	---	---	96
	1077	1°N	60	16,900	59 ± 1	8560 ± 110	10	---	---	> 100
	1078	5°S	60	13,700	45 ± 1	7850 ± 250	11	---	< 0.1	> 100
716 EN	1079	32°S	60	7,500	88 ± 2	2720 ± 250	---	---	---	92
	1080	25°S	60	5,300	49 ± 4	2450 ± 90	5.9	---	---	> 100
	1081	19°S	60	5,300	31 ± 1	2070 ± 90	9.4	---	---	> 100
	1082	13°S	60	7,300	38 ± 2	3860 ± 100	8.9	---	< 0.2	> 100
718 ES	1083	38°S	60	5,200	41 ± 1	1352 ± 58	5.0	---	---	> 100
	1084	43°S	60	4,200	57 ± 1	408 ± 10	---	---	---	> 100
	1085	49°S	60	5,200	60 ± 1	612 ± 25	---	---	---	> 100
	1086	54°S	60	5,500	61 ± 3	495 ± 13	4.3	---	< 0.2	> 100

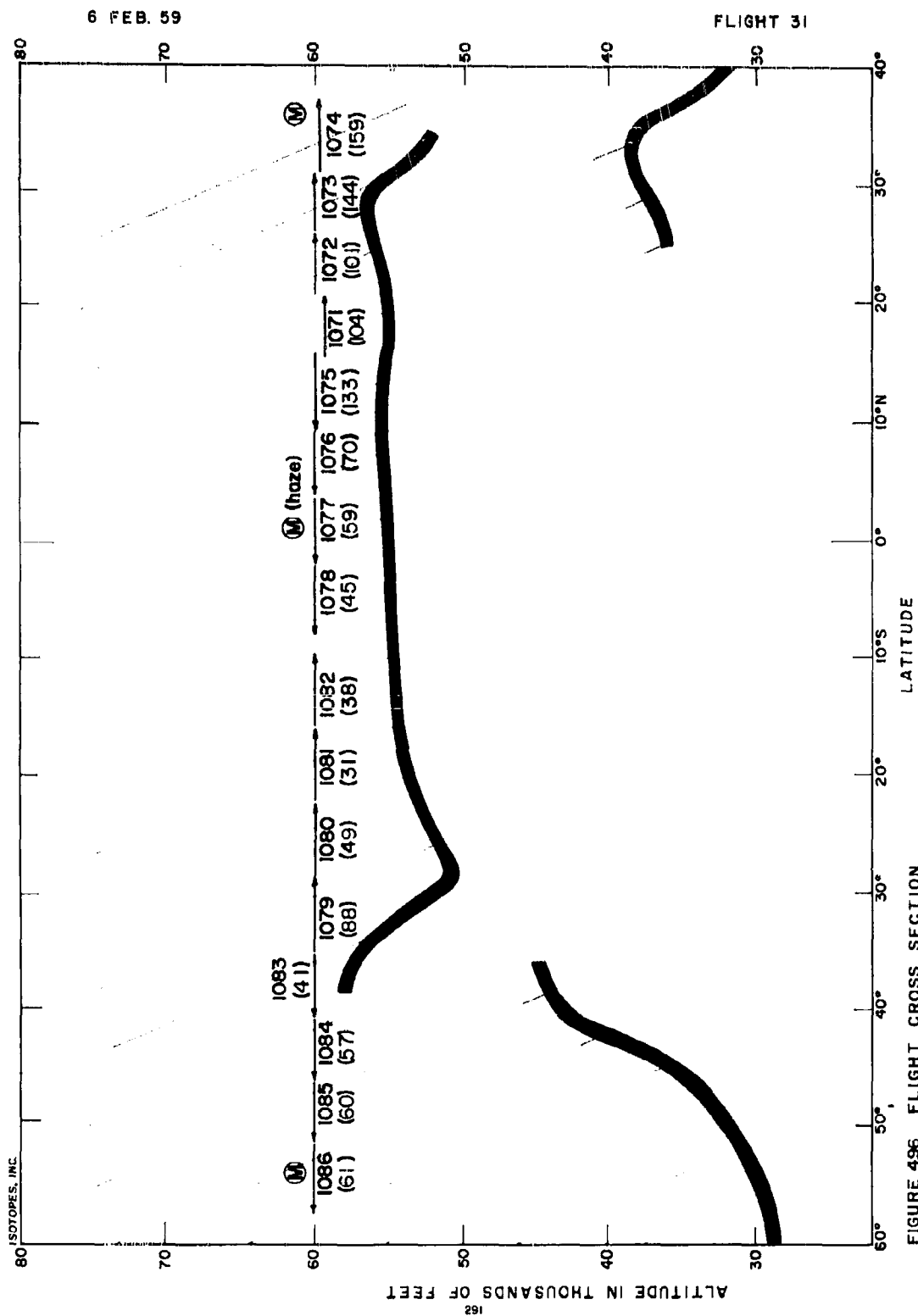


FIGURE 496 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF			q9	Ce ¹⁴⁴ -90	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
10 February 1959 Mission 32										
715 ES	1095	13°N	55	1,830	< 14	530 + 30	---	---	---	> 100
	1096	8°N	55	1,740	8 + 1	641 + 33	23	---	---	> 100
	1097	2°N	55	1,610	5 + 1	631 + 32	17	---	< 0.5	> 100
	1098	5°S	55	1,130	5 + 1	413 + 10	11	---	---	> 100
718 EN	1087	32°S	55	3,200	19 + 1	1373 + 55	7.5	---	---	> 100
	1088	26°S	55	2,100	12 + 1	742 + 38	8.6	---	---	> 100
	1089	19°S	55	2,200	6 + 1	562 + 11	15	---	---	> 100
	1090	13°S	55	1,910	6 + 1	594 + 23	11	---	---	> 100
717 ES	1091	38°S	55	6,200	23 + 1	2890 + 50	8.5	---	< 0.3	> 100
	1092	43°S	55	6,300	40 + 3	2390 + 80	7.0	---	---	> 100
	1093	49°S	55	6,800	43 + 2	1707 + 80	4.9	---	---	> 100
	1094	54°S	55	5,000	42 + 2	1177 + 62	5.0	---	< 0.2	> 100

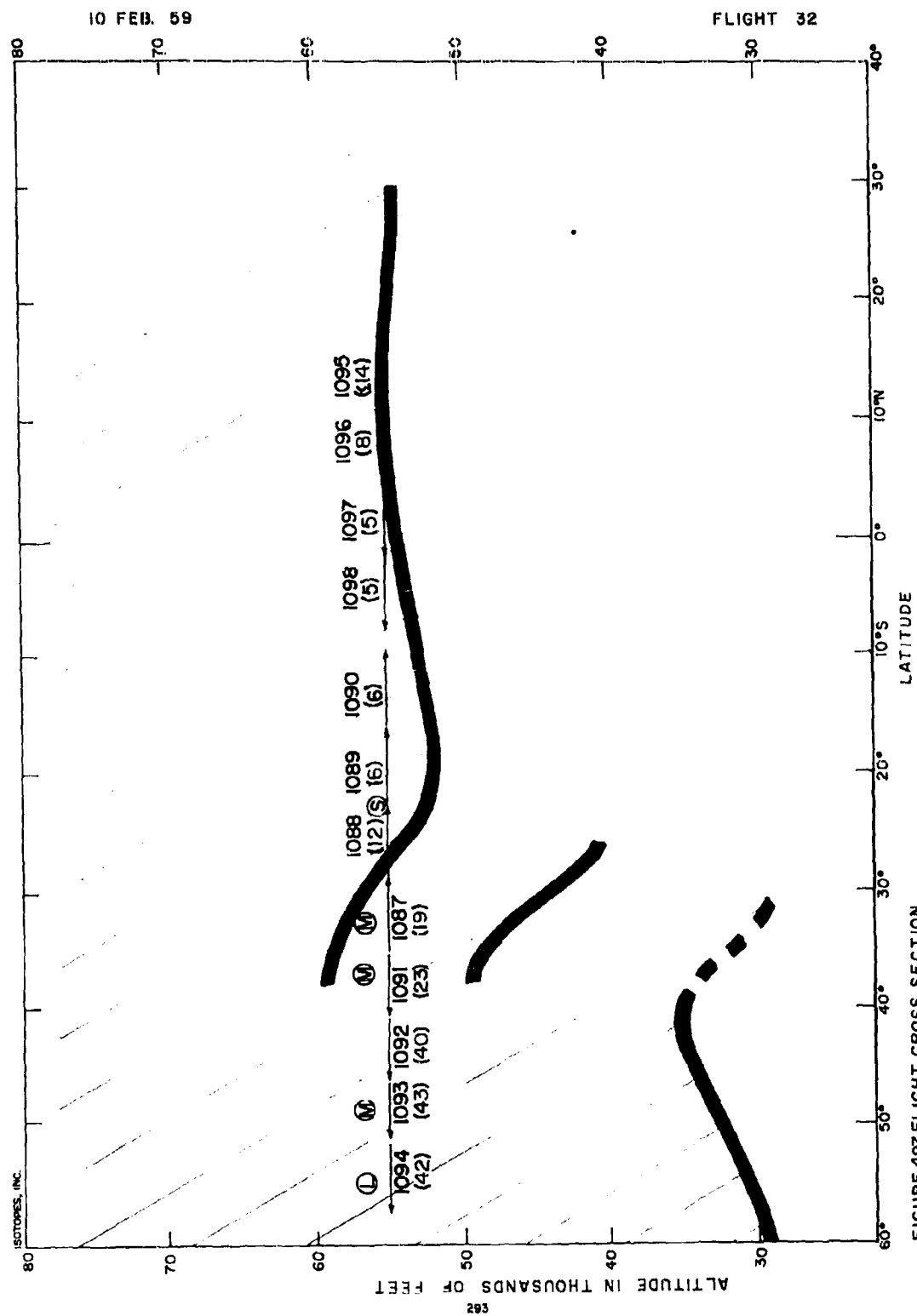


FIGURE 497 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpr. /1000 SCF		Total Beta	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
				± .90	W ¹⁸⁵ (Aug 58)					
14 February 1959 Mission 33										
715 RN	1107	19°N	65	256 + 9	15500 + 510	47,000	---	---	---	>100
	1108	24°N	65	199 + 8	7140 + 260	51,000	11	---	---	>100
	1109	30°N	65	177 + 7	3310 + 130	33,000	9.0	---	---	>100
	1110	35°N	65	198 + 9	1953 + 20	29,000	8.0	15	<0.1	>100
705 RS	1111	13°N	64.4	280 + 9	17230 + 570	58,000	12	---	<0.1	>100
	1112	7°N	64.6	243 + 8	21300 + 500	57,000	12	---	---	>100
	1113	1°N	64.9	166 + 6	18970 + 530	41,000	12	---	---	>100
	1114	5°S	65	193 + 8	18880 + 510	41,000	12	---	---	>100
717 EN	1099	32°S	64	56 + 3	743 + 34	4,800	3.4	14	---	>100
	1100	25°S	65	61 + 3	1733 + 83	6,400	4.0	16	<0.3	>100
	1101	19°S	65	81 + 3	3600 + 80	9,700	6.7	12	---	>100
	1102	13°S	65	91 + 6	4980 + 130	13,800	5.8	9.6	<0.1	>100
718 ES	1103	38°S	64	48 + 1	≤ 435	4,400	---	18	---	>100
	1104	43°S	64.8	54 + 1	≤ 110	4,900	---	12	---	>100
	1105	49°S	64.8	63 + 2	253 + 69	4,800	---	14	---	>100
	1106	54°S	64.8	49 + 2	≤ 187	5,200	1.7	19	---	>100

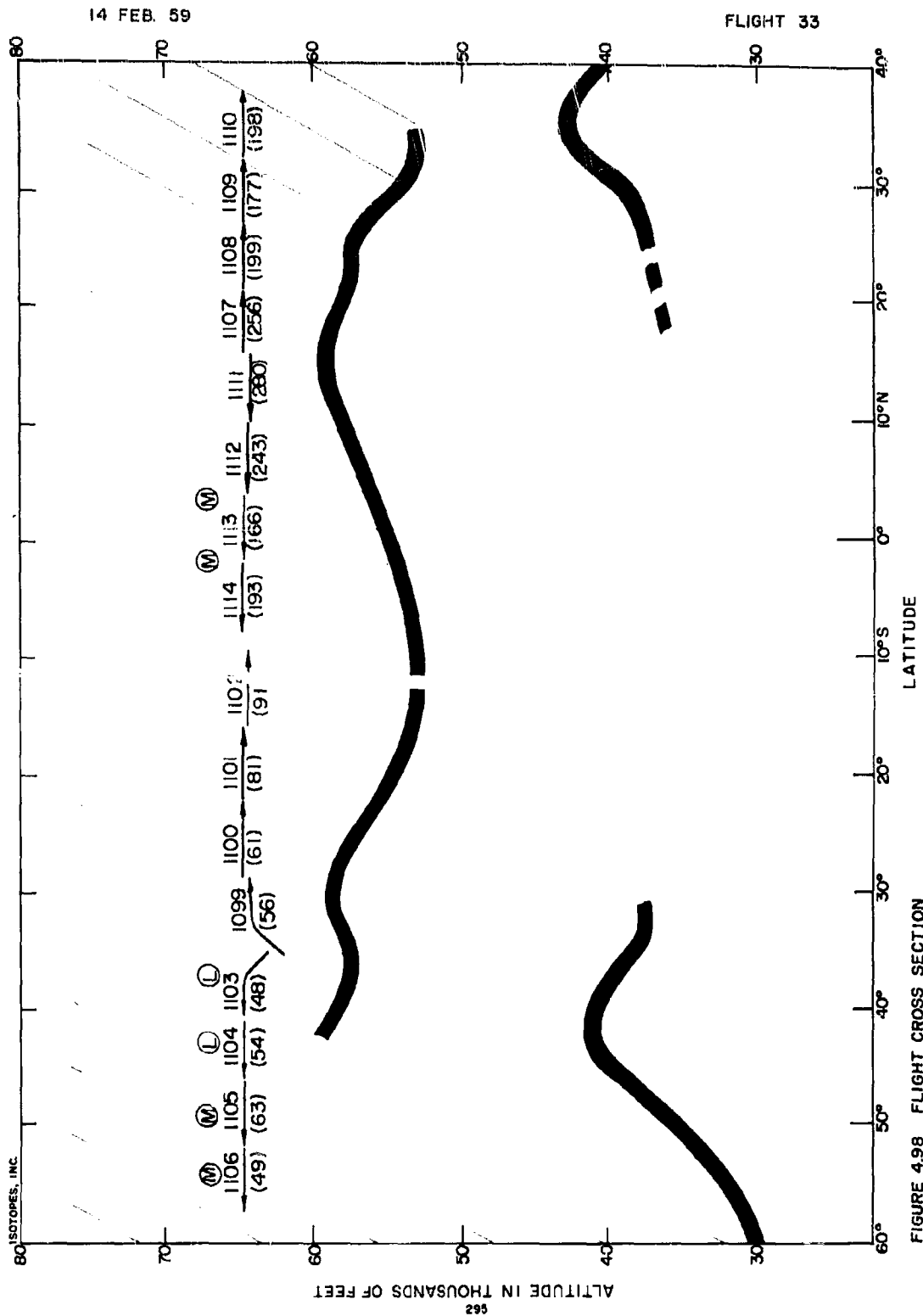


FIGURE 4.98 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1 00 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
17 February 1959 Mission 34										
715 RS	1121	13°N	55	2,600		8 ± 1	---	---	< 0.4	> 100
	1122	9°N	55	3,400		13 ± 1	864 ± 31	---	---	> 100
716 EN	1115	32°S	55	2,500		12 ± 1	1616 ± 63	---	---	> 100
	1116	25°S	55	2,600		10 ± 1	---	---	< 0.4	> 100
	1117	25°S	55	3,200		10 ± 1	---	---	---	> 100
	1118	32°S	55	2,900		13 ± 1	---	---	---	> 100

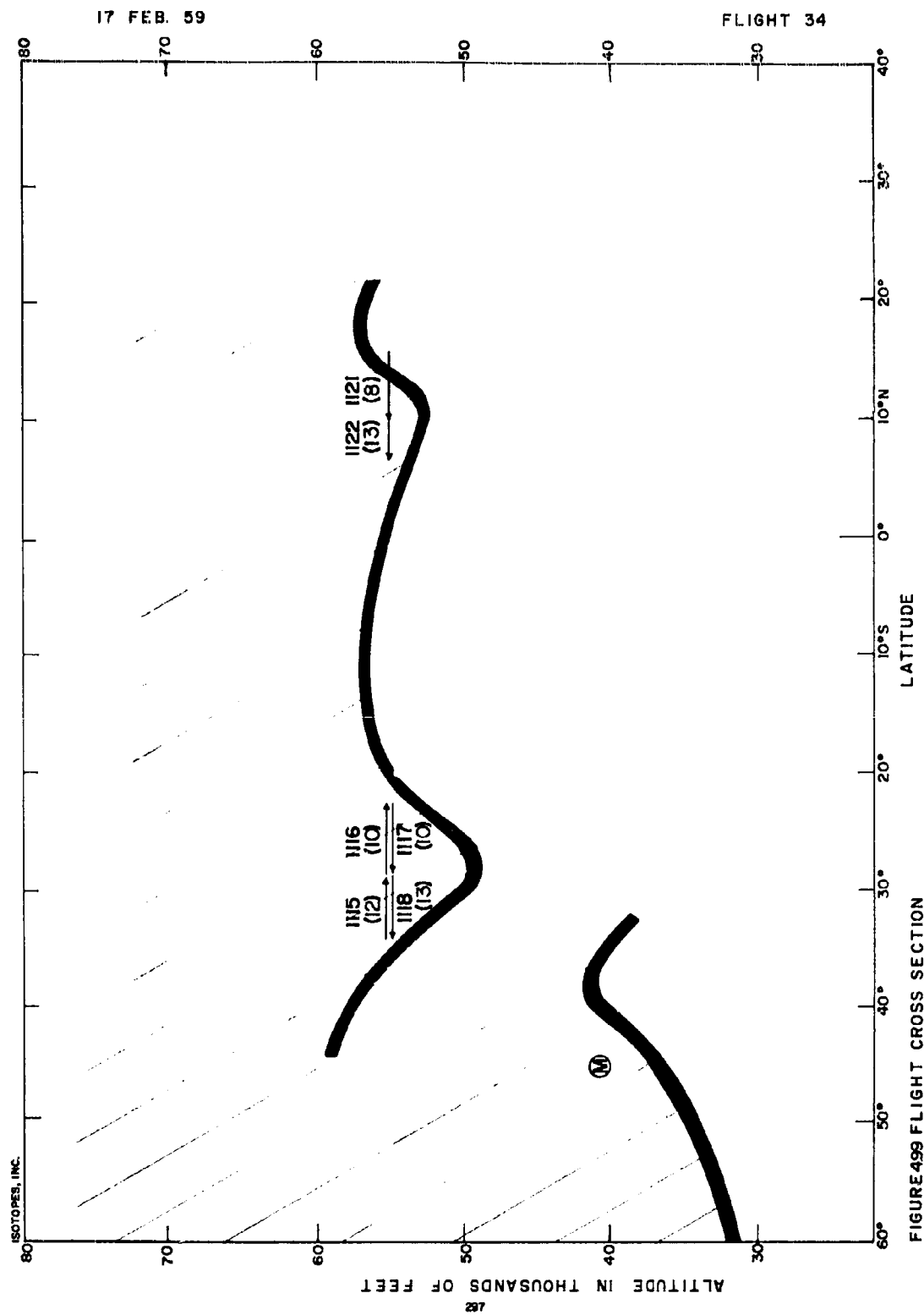


FIGURE 499 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)					
20 February 1959 Mission 35											
714 RN	1125	19°N	64.5	58,000	241 + 9	9730 + 240		7.9	---	---	>100
	1126	24°N	65	43,000	218 + 7	5280 + 190		7.7	---	---	>100
	1127	30°N	65	31,000	217 + 9	2470 + 80		---	---	---	>100
	1128	36°N	65	35,000	175 + 8	2440 + 130		6.3	---	≤ 0.1	>100
715 RS	1129	13°N	65	66,000	291 + 10	18360 + 500		7.9	---	< 0.1	>100
	1130	7°N	65	58,000	188 + 8	20200 + 500		12	---	---	>100
	1131	1°N	65	43,000	183 + 7	18330 + 510		11	---	---	>100
	1132	5°S	65	36,000	160 + 7	14660 + 470		9.3	---	---	>100
716 EN	1133	32°S	64.5	5,800	52 + 2	829 + 147		2.6	---	---	95
	1134	26°S	65	6,500	50 + 2	1311 + 87		3.7	---	---	>100
	1135	19°S	65	11,100	72 + 1	3280 + 120		6.5	---	< 0.2	85
	1136	13°S	65	22,000	111 + 5	6840 + 240		8.9	---	---	>100
717 ES	1137	38°S	48	3,900	18 + 1	1537 + 49		4.9	---	---	>100
	1138	43°S	48	5,100	27 + 1	2290 + 60		5.3	---	---	83
	1139	49°S	48.4	6,300	29 + 1	2600 + 60		5.3	---	< 0.3	87
	1140	54°S	48.4	4,800	24 + 1	2300 + 60		6.9	---	---	87

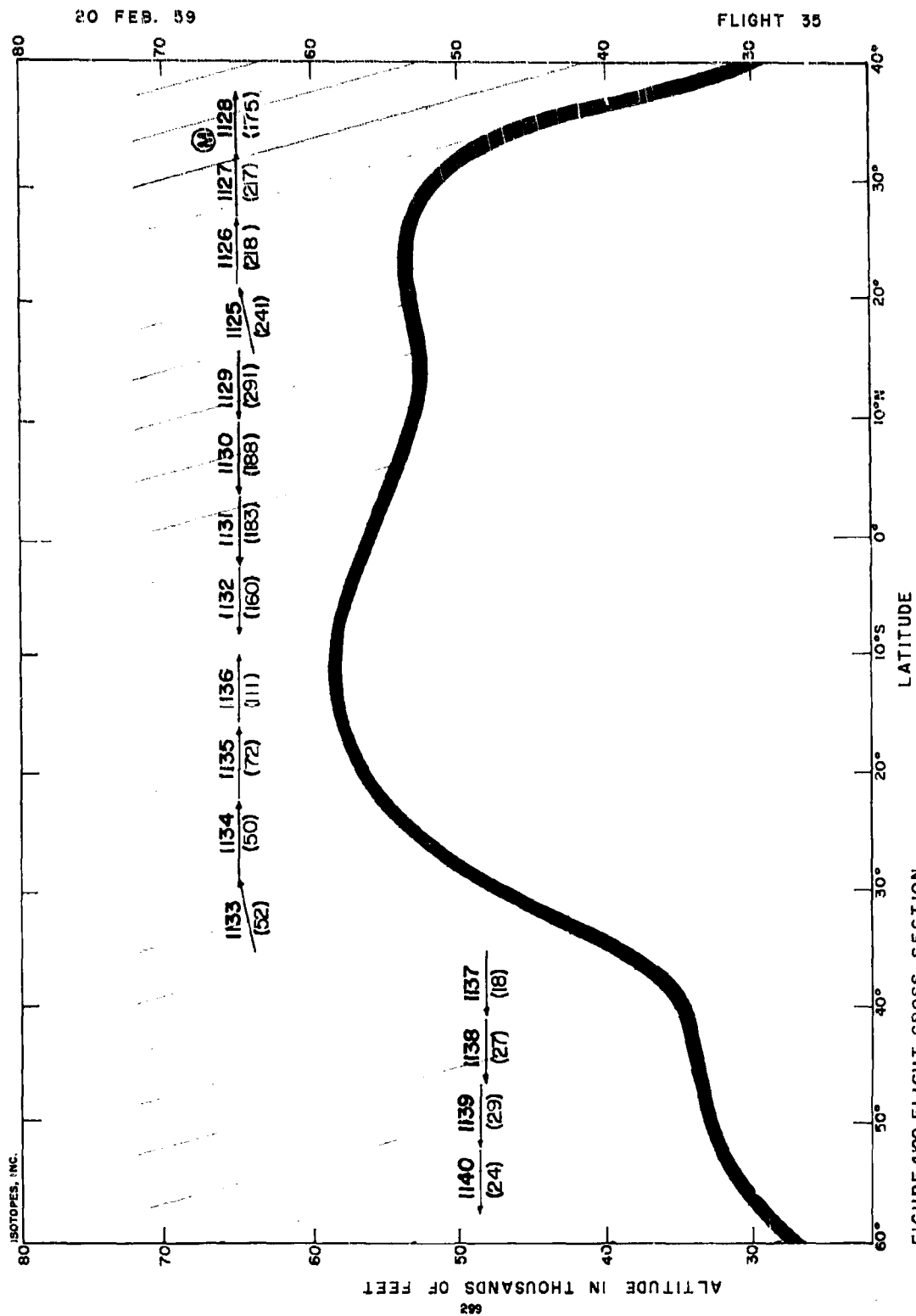


FIGURE 4.100 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}	
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)						
24 February 1959 Mission 36												
714 RN	1149	19°N	65	56,000	233 ± 9	11560 ± 280		9.1	---	---	97	
	1150	24°N	65.5	52,000	233 ± 7	6610 ± 190		9.6	---	---	96	
	1151	30°N	66	42,000	243 ± 9	2100 ± 100		7.4	---	---	>100	
	1152	35°N	66.5	66,000	302 ± 11	2030 ± 80		6.8	---	< 0.1	>100	
715 RS	1153	13°N	64	55,000	236 ± 8	15290 ± 470		9.0	---	< 0.1	>100	
	1154	7°N	67	69,000	341 ± 10	38200 ± 600		---	---	---	>100	
	1155	1°N	68	60,000	311 ± 7	18310 ± 590		---	---	---	97	
	1156	5°S	68.5	52,000	248 ± 12	35200 ± 1000		---	---	---	> 100	
716 EN	1141	32°S	64.3	5,700	47 ± 1	798 ± 69		3.3	---	---	>100	
	1142	25°S	65.8	6,500	58 ± 1	654 ± 37		1.0	---	---	>100	
	1143	19°S	66.8	7,700	58 ± 1	1632 ± 21		5.2	---	< 0.3	>100	
	1144	13°S	68	35,000	177 ± 7	8590 ± 290		8.0	---	< 0.1	>100	
713 ES	1145	38°S	55	5,500	33 ± 1	2300 ± 80		---	---	---	>100	
	1146	43°S	55	7,300	43 ± 1	2510 ± 160		---	---	---	>100	
	1147	49°S	55	6,800	48 ± 1	2330 ± 80		4.9	---	---	>100	
	1148	54°S	55	7,800	67 ± 1	2220 ± 90		3.3	---	---	>100	

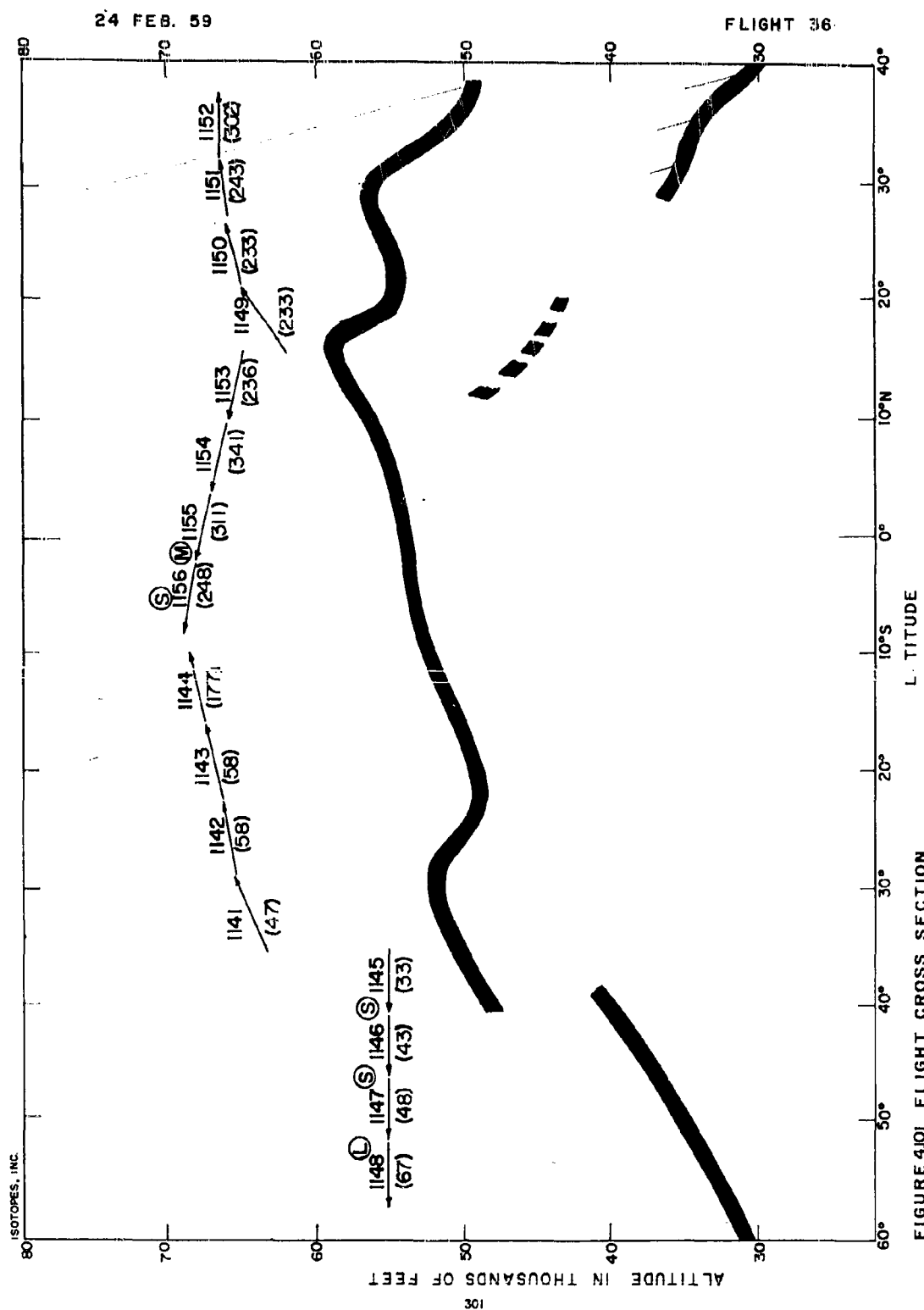


FIGURE 4J01 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.		HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
						Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
28 February 1959 Mission 37											
705		1157	19°N	55	4,000	13 ± 1	1350 + 63	---	---	---	> 100
RN		1158	23°N	55	3,100	14 ± 1	---	---	---	---	---
715		1161	13°N	56	2,500	9 ± 1	---	11	---	---	> 100
RS		1162	7°N	55.5	6,000	17 ± 1	100 + 2	14	---	< 0.2	83
		1163	1°S	55.2	1,600	4 ± 1	---	11	---	---	> 100
		1164	5°S	55.2	1,770	6 ± 1	---	4.2	---	---	> 100
718		1165	32°S	55	2,600	12 ± 1	1356 + 19	8.9	---	< 0.4	> 100
EN											
716		1167	38°S	64	5,100	51 ± 1	744 + 15	3.1	---	---	> 100
ES		1168	43°S	65	5,700	73 ± 2	413 + 11	---	---	---	> 100
		1169	49°S	65	5,800	63 ± 3	338 + 11	2.2	---	---	> 100
		1170	54°S	64.8	5,300	59 ± 1	238 + 9	1.1	---	< 0.9	> 100

FLIGHT 37

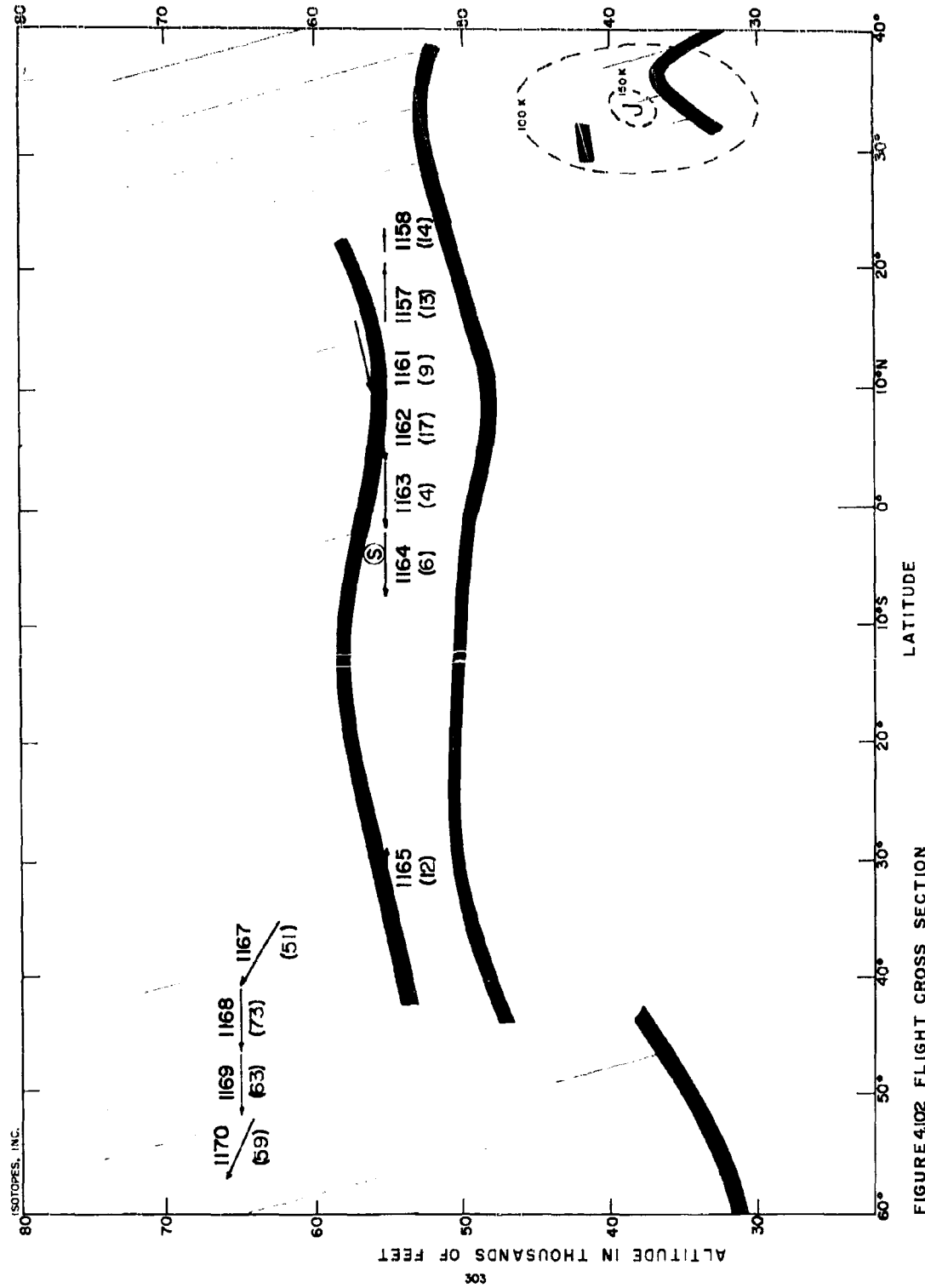


FIGURE 4.102 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}	
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)						
3 March 1959 Mission 38												
715 RN	1179	19°N	65	47,000	262 ± 10	9900 ± 350		7.9	---	---	>100	
	1180	24°N	65	49,000	280 ± 10	5770 ± 390		6.9	---	---	>100	
	1181	30°N	65	50,000	252 ± 10	10600 ± 370		8.4	---	---	>100	
	1182	35°N	65	37,000	227 ± 8	4320 ± 70		5.2	---	< 0.1	>100	
714 RS	1183	13°N	64.5	51,000	282 ± 10	10260 ± 310		---	---	---	>100	
	1184	7°N	65	42,000	224 ± 9	9380 ± 200		---	---	---	>100	
	1185	1°N	65	41,000	227 ± 9	8020 ± 240		---	---	---	>100	
	1186	5°S	65	31,000	124 ± 7	6880 ± 190		8.9	---	---	>100	
716 EN	1171	32°S	63.8	5,600	59 ± 1	607 ± 22		0.4	---	---	>100	
	1172	25°S	65	6,200	52 ± 2	1333 ± 21		4.5	---	---	>100	
	1173	19°S	65	10,100	80 ± 2	3290 ± 130		3.7	---	< 0.3	>100	
	1174	13°S	65	14,400	105 ± 3	6380 ± 200		4.8	---	< 0.2	>100	
718 ES	1175	38°S	40	390	2 ± 1	---		4.1	---	---	>100	
	1176	43°S	40	1,380	11 ± 1	726 ± 38		3.4	---	---	>100	

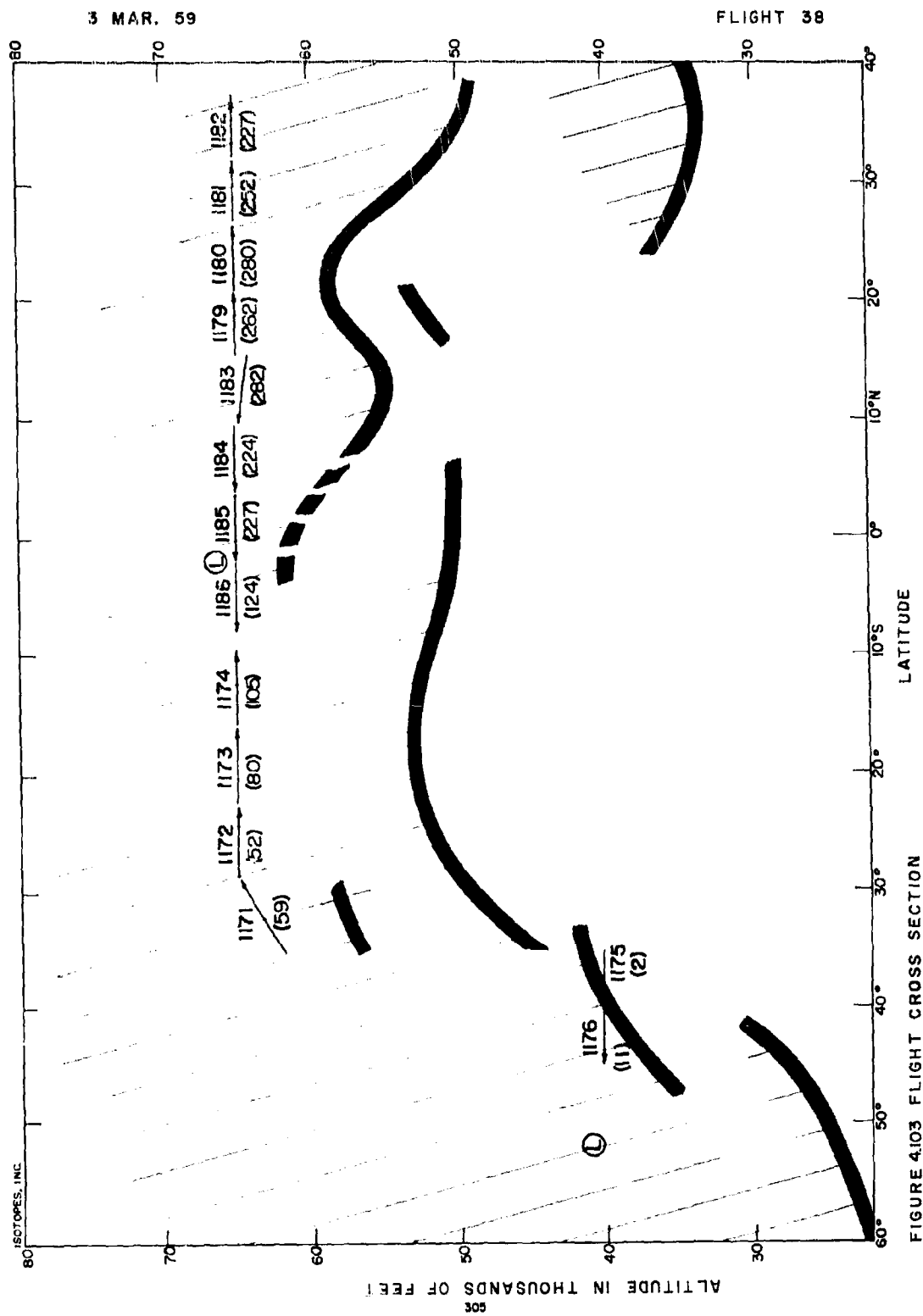


FIGURE 4.103 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
6 March 1959 Mission 39										
714 RN	1187	19°N	65.5	47,000	296 ± 10	2520 ± 110	---	---	---	> 100
	1188	24°N	66.3	44,000	209 ± 7	5130 ± 170	7.0	---	---	> 100
	1189	30°N	67	43,000	221 ± 8	2640 ± 100	7.4	---	---	> 100
	1190	35°N	67.5	47,000	237 ± 11	3450 ± 160	6.9	16	<0.1	> 100
705 RS	1191	13°N	62.2	28,000	92 ± 3	4880 ± 140	11	---	---	> 100
	1192	7°N	63	45,000	208 ± 11	13700 ± 1140	10	---	<0.1	> 100
	1193	1°N	65	44,000	197 ± 44	17630 ± 560	3.8	---	---	> 100
	1194	5°S	65.6	24,000	120 ± 6	6070 ± 300	---	---	---	> 100
716 EN	1195	32°S	65.3	5,300	46 ± 1	850 ± 17	---	---	---	> 100
	1196	25°S	67.2	6,400	67 ± 2	836 ± 47	2.1	---	---	> 100
	1197	19°S	67.8	7,800	60 ± 2	1068 ± 50	4.9	---	---	> 100
	1198	13°S	67.9	22,000	143 ± 8	4190 ± 160	5.5	---	<0.1	> 100
718 ES	1199	38°S	48	≤ 410	0.5 ± 0.2	---	---	---	---	---
	1200	43°S	48	470	8 ± 1	---	---	---	---	> 100
	1201	49°S	48	2,600	18 ± 1	1319 21	---	---	---	> 100
	1202	54°S	48	5,500	39 ± 1	2600 70	3.6	---	<0.2	> 100

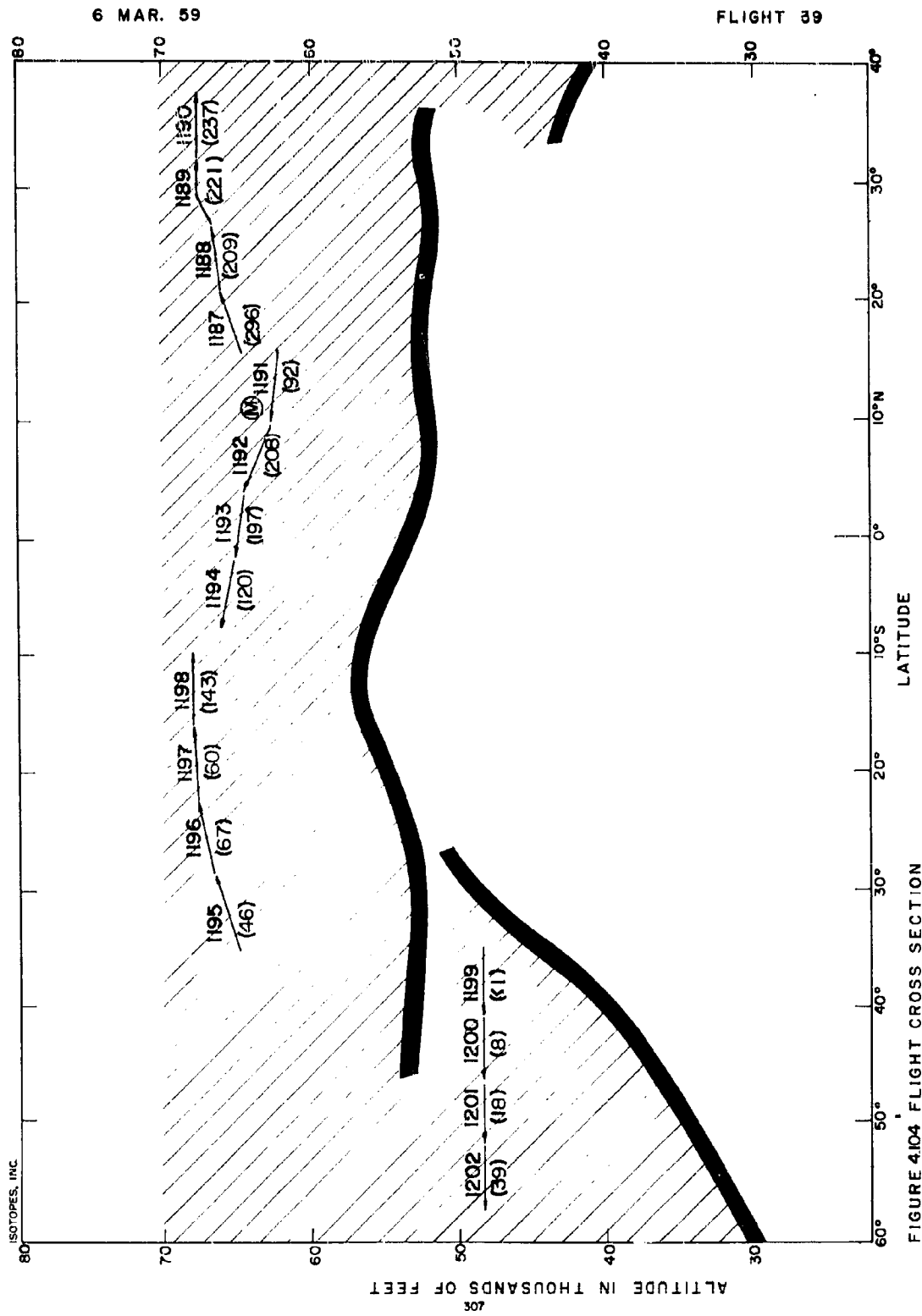


FIGURE 4104 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W 185 (Aug 58)				
10 March 1959 Mission 40										
705 RN	1211	19°N	60	32,000	147 + 6	5290 + 120	7.4	---	---	> 100
	1212	24°N	60	28,000	116 + 4	5270 + 150	8.2	---	---	> 100
	1213	30°N	60	29,000	133 + 4	6500 + 200	8.4	---	---	> 100
	1214	35°N	60	28,000	165 + 7	3930 + 120	7.5	---	< 0.1	> 100
715 RS	1215	13°N	60	22,000	99 + 5	4770 + 150	7.9	---	< 0.1	> 100
	1216	7°N	60	19,600	80 + 3	4730 + 160	5.0	---	---	> 100
	1217	1°N	60	12,100	51 + 1	4190 + 180	5.4	---	---	> 100
	1218	5°S	60	6,100	23 + 1	1750 + 26	8.1	---	---	> 100
718 EN	1203	32°S	60	4,600	53 + 1	1575 + 16	---	---	---	> 100
	1204	25°S	60	5,100	55 + 1	2080 + 90	---	---	---	> 100
	1205	19°S	60	4,900	42 + 1	2030 + 60	---	---	---	> 100
	1206	13°S	60	5,900	35 + 1	1512 + 51	4.4	---	---	> 100
716 ES	1207	38°S	54.5	3,800	30 + 1	1645 + 54	3.4	---	---	> 100
	1208	45°S	55	5,200	57 + 2	2130 + 50	2.9	---	---	> 100
	1209	49°S	55	5,200	53 + 1	1729 + 21	2.4	---	---	> 100
	1210	54°S	55	5,500	57 + 2	1750 + 65	2.1	---	< 0.4	> 100

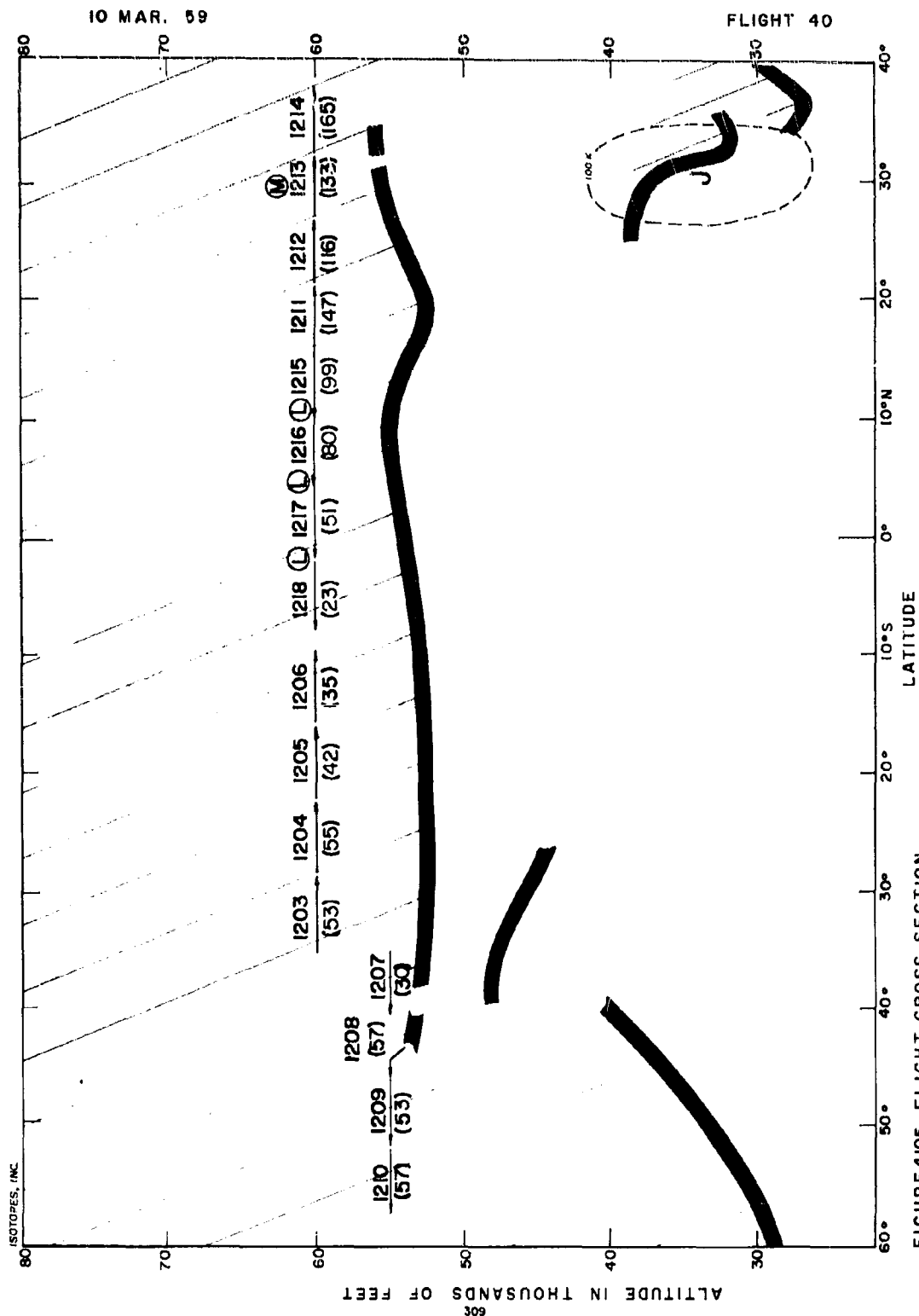


FIGURE 4.105 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$	$\beta T_{1/2}$
					Sr^{90}	W^{185} (Aug 58)						
13 March 1959 Mission 41												
705 RN	1227	19°N	55.3	5,600	22 ± 1	1180 ± 45			11	---	---	> 100
	1228	24°N	55	10,600	40 ± 1	1620 ± 53			10	---	---	> 100
	1229	30°N	55	13,300	62 ± 1	3060 ± 80			8.0	---	---	> 100
	1230	35°N	54.7	28,000	101 ± 4	5630 ± 180			8.3	---	< 0.1	> 100
714 RS	1231	13°N	55	3,800	18 ± 1	742 ± 9			5.7	---	---	> 100
	1232	7°N	55	4,500	10 ± 1	720 ± 10			19	---	< 0.3	> 100
	1233	1°N	54.5	1,680	5 ± 1	---			8.9	---	---	> 100
716 EN	1219	32°S	55	3,600	19 ± 1	1382 ± 47			5.8	---	< 0.4	> 100
	1220	25°S	55	1,120	8 ± 1	---			---	---	---	> 100
	1221	19°S	55	600	6 ± 1	---			---	---	---	> 100
	1222	13°S	55	< 330	4 ± 1	---			1.1	---	---	---
718 ES	1223	38°S	65	4,600	65 ± 2	432 ± 16			0.8	12	---	> 100
	1224	43°S	65	5,000	63 ± 2	130 ± 7			0.6	---	---	> 100
	1225	49°S	65	8,100	77 ± 1	389 ± 18			2.5	14	< 0.6	> 100
	1226	54°S	65.3	4,400	55 ± 2	842 ± 95			---	9.9	---	> 100

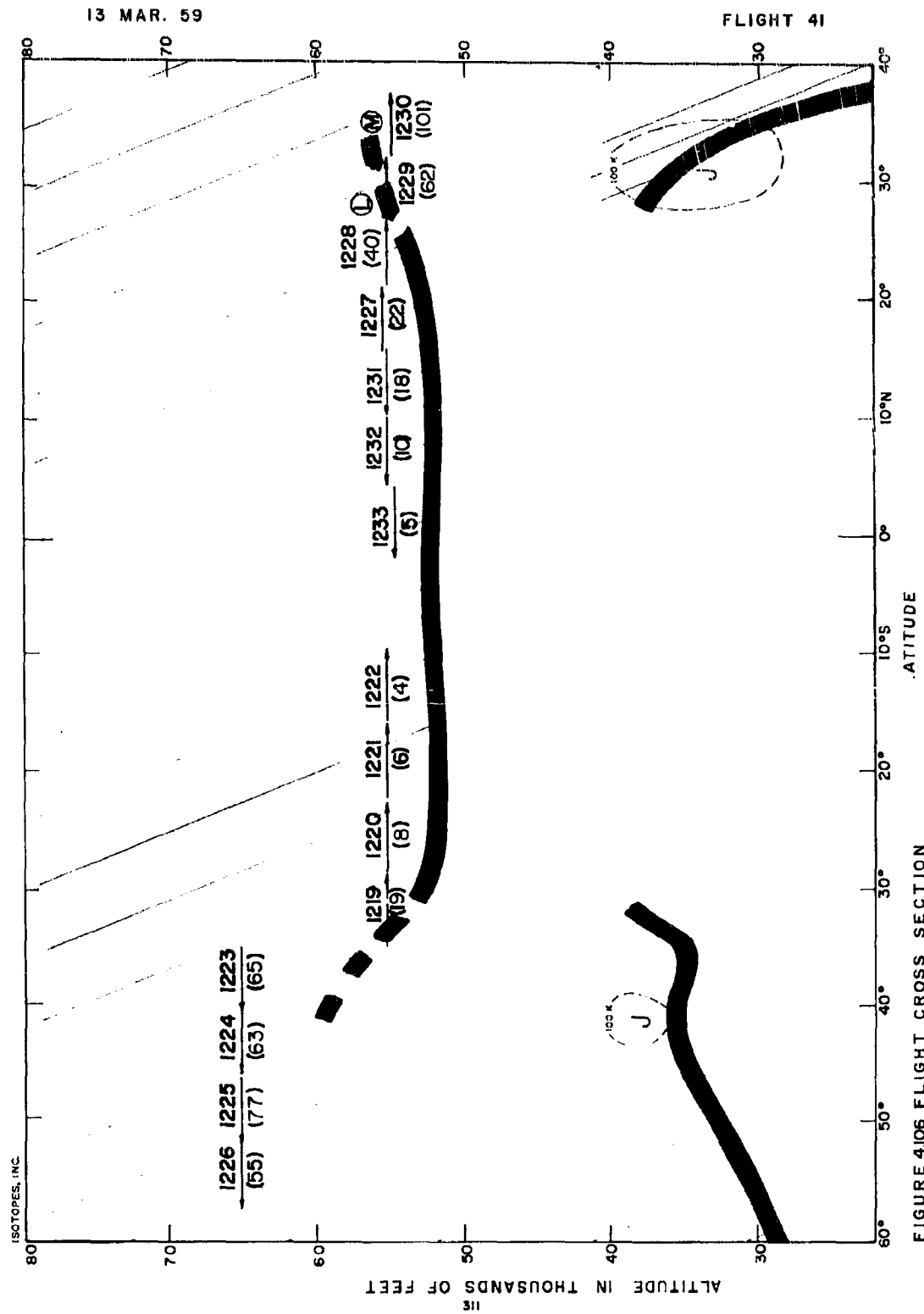


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			$\frac{\text{Sr } 89}{\text{Sr } 90}$	$\frac{\text{Ce } 144}{\text{Sr } 90}$	$\frac{\text{Ba } 140}{\text{Sr } 89}$	$\beta T_{1/2}$
					$\text{Sr } 90$	$\text{W } 185$ (Aug 58)					
17 March 1959 Mission 42											
714	1243	19°N	64.6	38,000	187 ± 8	6560 ± 150		7.0	---	---	> 100
RN	1244	24°N	65	40,000	195 ± 7	7280 ± 230		7.3	---	---	> 100
	1245	30°N	65	45,000	206 ± 10	6410 ± 120		6.3	---	< 0.1	> 100
705	1247	13°N	64.7	43,000	222 ± 3	9340 ± 290		5.5	---	< 0.1	> 100
RS	1248	7°N	65	36,000	204 ± 8	16950 ± 420		5.8	---	---	> 100
	1249	2°N	65	30,000	163 ± 8	15560 ± 420		6.9	---	---	> 100
	1250	5°S	65	23,000	106 ± 2	11060 ± 280		5.8	---	---	> 100
718	1235	32°S	63.1	5,800	59 ± 3	1298 ± 27		1.7	---	---	> 100
EN	1236	25°S	65	8,300	65 ± 2	2960 ± 120		3.8	---	---	> 100
	1237	19°S	65	12,400	87 ± 2	6070 ± 200		3.1	---	< 0.3	> 100
	1238	13°S	65	13,600	98 ± 1	7540 ± 240		3.6	---	---	> 100
717	1239	37°S	40	1,850	11 ± 1	1028 ± 43		4.4	18	< 0.5	> 100
ES	1240	42°S	40	1,660	13 ± 1	945 ± 36		3.0	---	---	> 100
	1241	47°S	40	950	8 ± 1	563 ± 23		1.2	19	---	> 100
	1242	52°S	40	360	3 ± 1	203 ± 8		---	14	---	> 100

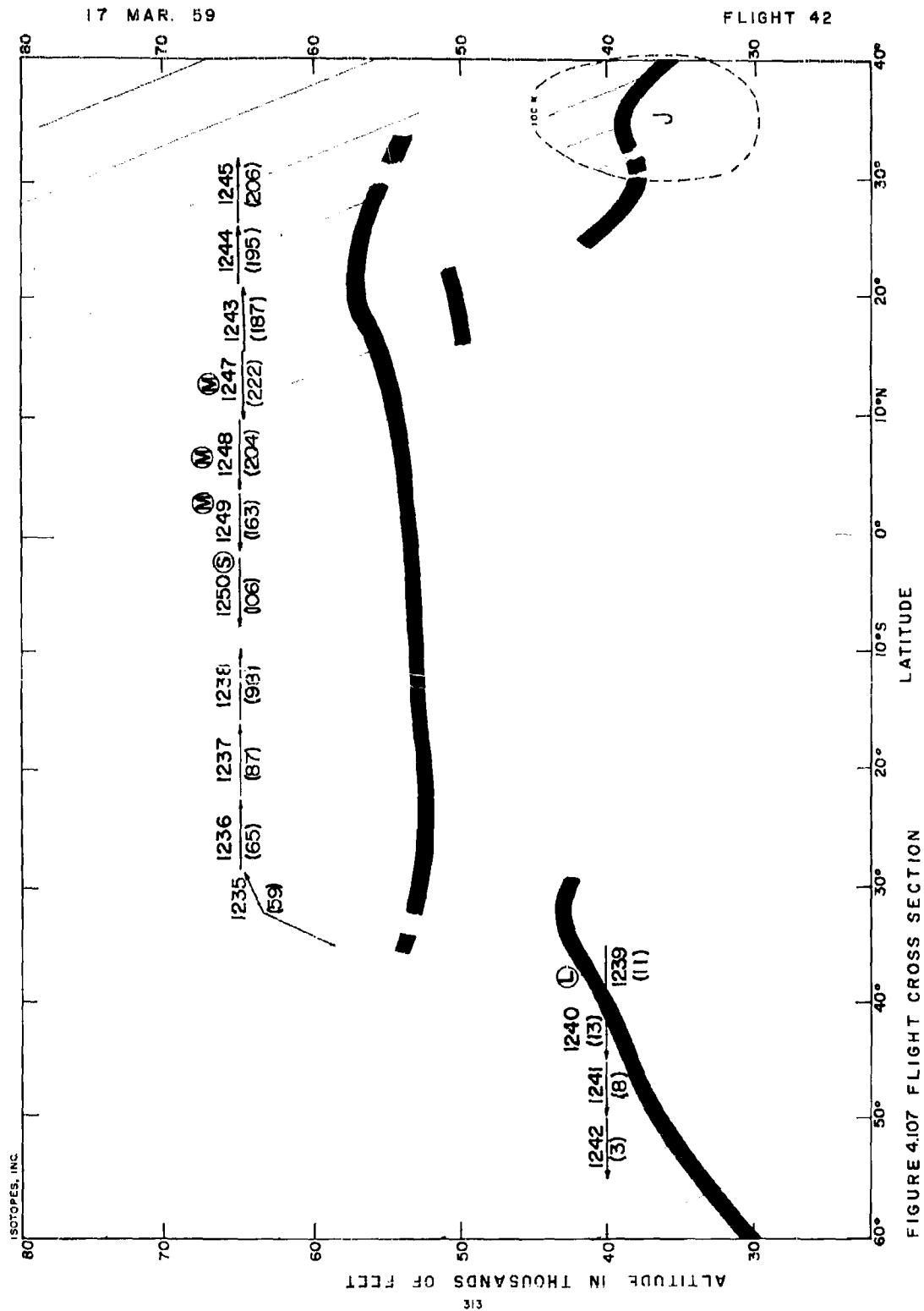


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$	$\beta_{T1/2}$
					Sr^{90}	W^{185} (Aug 58)						
20 March 1959 Mission 43												
705 RN	1251	19°N	64.5	36,000	254 + 3	7620 + 260			---	---	---	> 100
	1252	24°N	65.5	29,000	269 + 28	4100 + 160			3.4	---	---	> 100
	1253	29°N	66	41,000	198 + 8	7880 + 200			5.1	14	< 0.1	> 100
	1254	35°N	66.5	31,000	218 + 8	2780 + 110			4.9	---	---	> 100
715 RS	1255	13°N	65	36,000	204 + 11	5870 + 830			6.7	11	< 0.1	> 100
	1256	7°N	65	31,000	161 + 38	13080 + 350			6.6	---	---	> 100
	1257	1°N	65	30,000	133 + 1	13810 + 540			6.4	---	---	> 100
	1258	4°S	65	21,000	140 + 28	12020 + 380			5.2	17	---	> 100
717 EN	1259	32°S	64.7	6,400	53 + 2	860 + 24			2.8	6.0	---	> 100
	1260	25°S	66.5	6,900	49 + 2	1302 + 17			3.9	16	---	> 100
	1261	19°S	67.5	12,800	96 + 2	2440 + 120			5.5	11	---	> 100
	1262	13°S	68.5	28,000	190 + 5	13300 + 430			---	19	---	> 100
718 ES	1263	38°S	48	1,120	8 + 1	403 + 10			---	---	---	> 100
	1264	43°S	48	1,030	5 + 1	558 + 12			6.5	40	---	> 100
	1265	49°S	48	1,690	16 + 1	953 + 14			---	---	---	> 100
	1266	54°S	48	2,700	23 + 1	1341 + 52			---	---	---	> 100

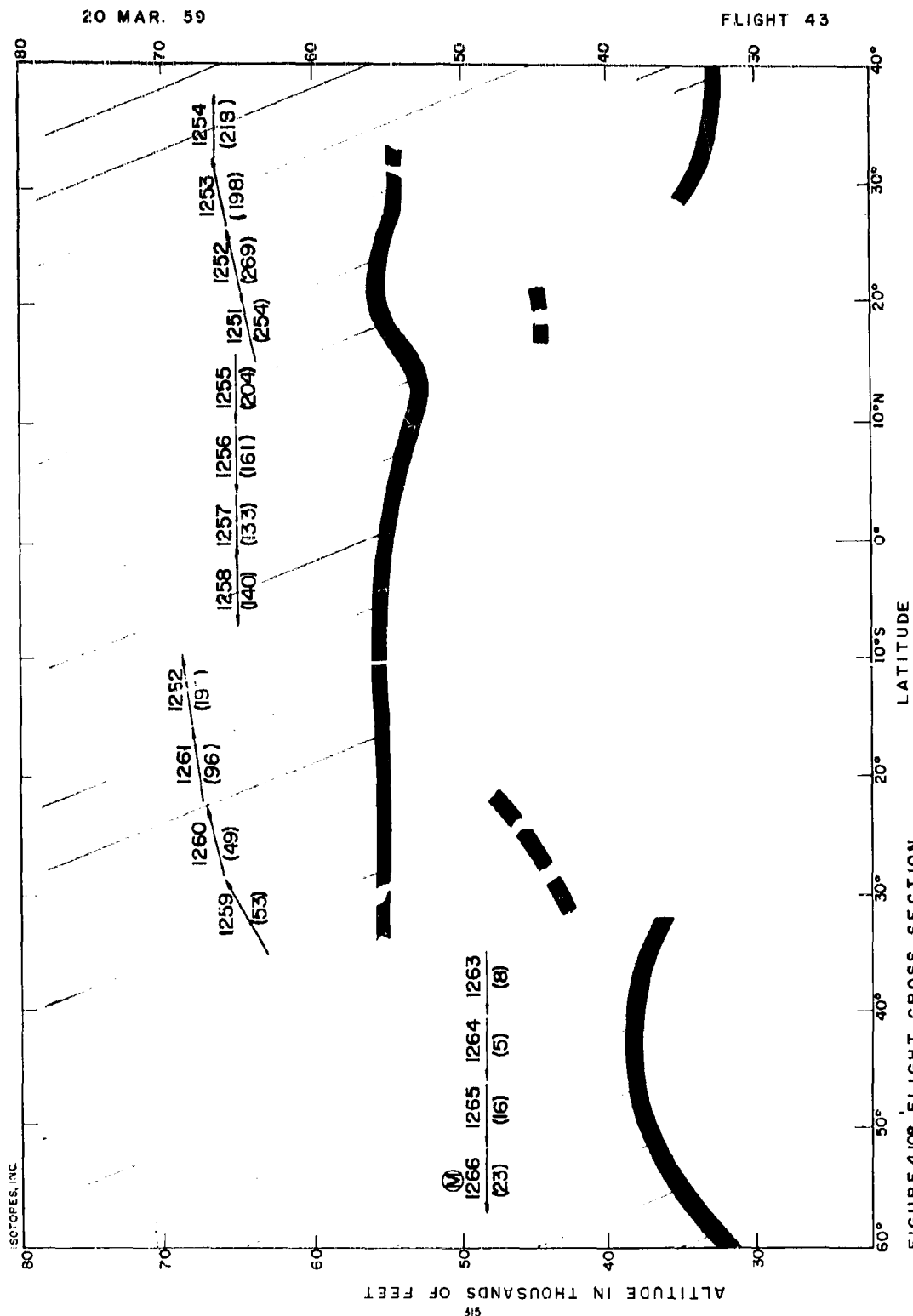


FIGURE 4.108 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF												
AC No.	HASP No.	Latitude	Altitude	Total Beta	W185		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β _{T1/2}		
					Sr ⁹⁰	(Aug 58)						
24 March 1959 Mission 44												
714 RN	1267	19°N	55	2,500	9 + 1	616 + 21	9.9	---	---	> 100		
	1268	24°N	55	7,100	21 + 1	1760 + 62	11	---	---	> 100		
	1269	30°N	55	17,100	61 + 4	4140 + 120	8.1	25	< 0.1	> 100		
	1270	35°N	55	20,000	108 + 7	6110 + 130	7.4	12	< 0.1	> 100		
715 RS	1271	13°N	55	3,100	8 + 1	504 + 9	9.9	---	---	> 100		
	1272	7°N	55	1,760	5 + 1	248 + 9	---	---	---	> 100		
	1273	1°N	55	1,840	5 + 1	304 + 6	9.4	---	---	> 100		
	1274	5°S	55	2,600	8 + 1	624 + 8	10	---	---	> 100		
716 EN	1283	32°S	55	1,870	11 + 1	---	4.3	---	---	> 100		
	1284	26°S	55	1,220	4 + 1	---	7.6	---	---	> 100		
	1285	20°S	54.7	<1,110	3 + 1	---	6.6	---	---	---		
	1286	13°S	55	1,630	8 + 1	---	---	---	---	> 100		
718 ES	1287	38°S	55	3,100	24 + 1	2120 + 30	4.6	13	< 0.4	> 100		
	1288	43°S	55	4,200	37 + 1	1808 + 85	3.4	---	---	> 100		
	1289	49°S	55	5,100	46 + 1	1880 + 28	2.3	13	< 1.0	> 100		
	1290	54°S	55	4,300	48 + 1	1776 + 75	2.3	9.9	---	> 100		

24 MAR. 59

FLIGHT 44

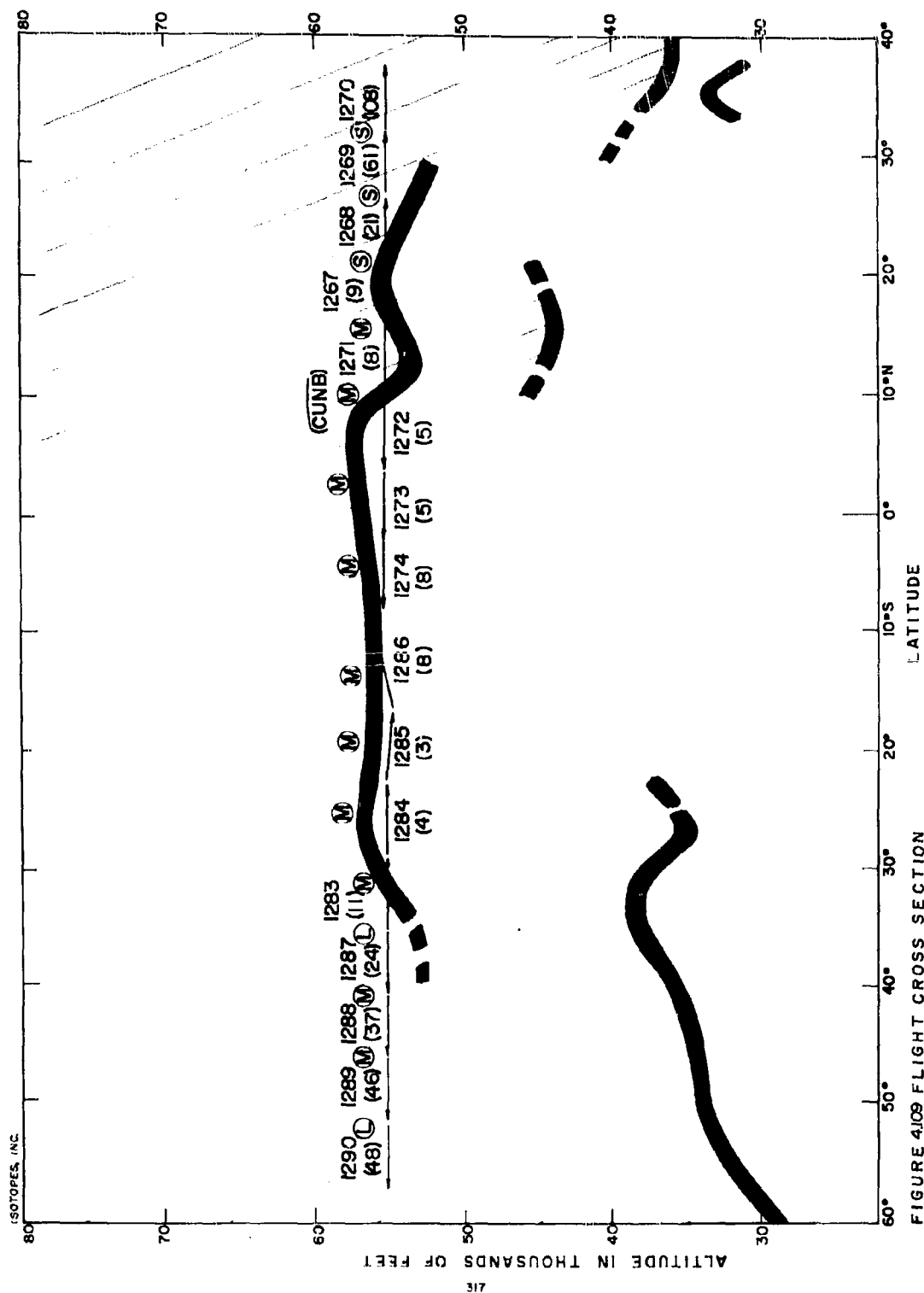


FIGURE 4/09 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF					Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}	
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)							
27 March 1959 Mission 45													
715 RN	1275	19°N	65	33,000	203 ± 8	6340 ± 220		6.1	---	---	> 100		
	1276	24°N	65	36,000	207 ± 7	6530 ± 200		5.5	---	< 0.1	> 100		
	1277	29°N	65.5	34,000	180 ± 5	4760 ± 150		5.9	---	---	> 100		
	1278	35°N	65.5	40,000	290 ± 10	2320 ± 40		5.2	13	---	> 100		
714 RS	1279	13°N	64.8	41,000	234 ± 10	12710 ± 320		5.8	---	< 0.1	> 100		
	1280	7°N	65	41,000	220 ± 10	15340 ± 340		6.4	---	---	> 100		
	1281	1°N	65	27,000	159 ± 3	14060 ± 310		5.6	---	---	> 100		
	1282	5°S	65	23,000	158 ± 9	11790 ± 310		4.6	14	---	> 100		
716 EN	1291	32°S	64	4,800	60 ± 2	1066 ± 18		2.0	---	---	> 100		
	1292	26°S	65	4,800	66 ± 1	763 ± 17		3.4	---	---	> 100		
	1293	19°S	65	5,800	60 ± 1	2210 ± 20		2.0	---	---	> 100		
	1294	19°S	65	11,000	74 ± 2	4640 ± 170		4.9	13	≤ 0.2	> 100		
717 ES	1295	38°S	64.5	5,400	74 ± 2	574 ± 28		---	---	---	> 100		
	1296	43°S	64.8	5,000	60 ± 2	541 ± 23		0.8	---	---	> 100		
	1297	49°S	65	5,100	70 ± 5	369 ± 26		---	---	---	> 100		
	1298	49°S	65	5,300	63 ± 4	98 ± 10		---	---	---	> 100		

27 MAR. 59

FLIGHT 45

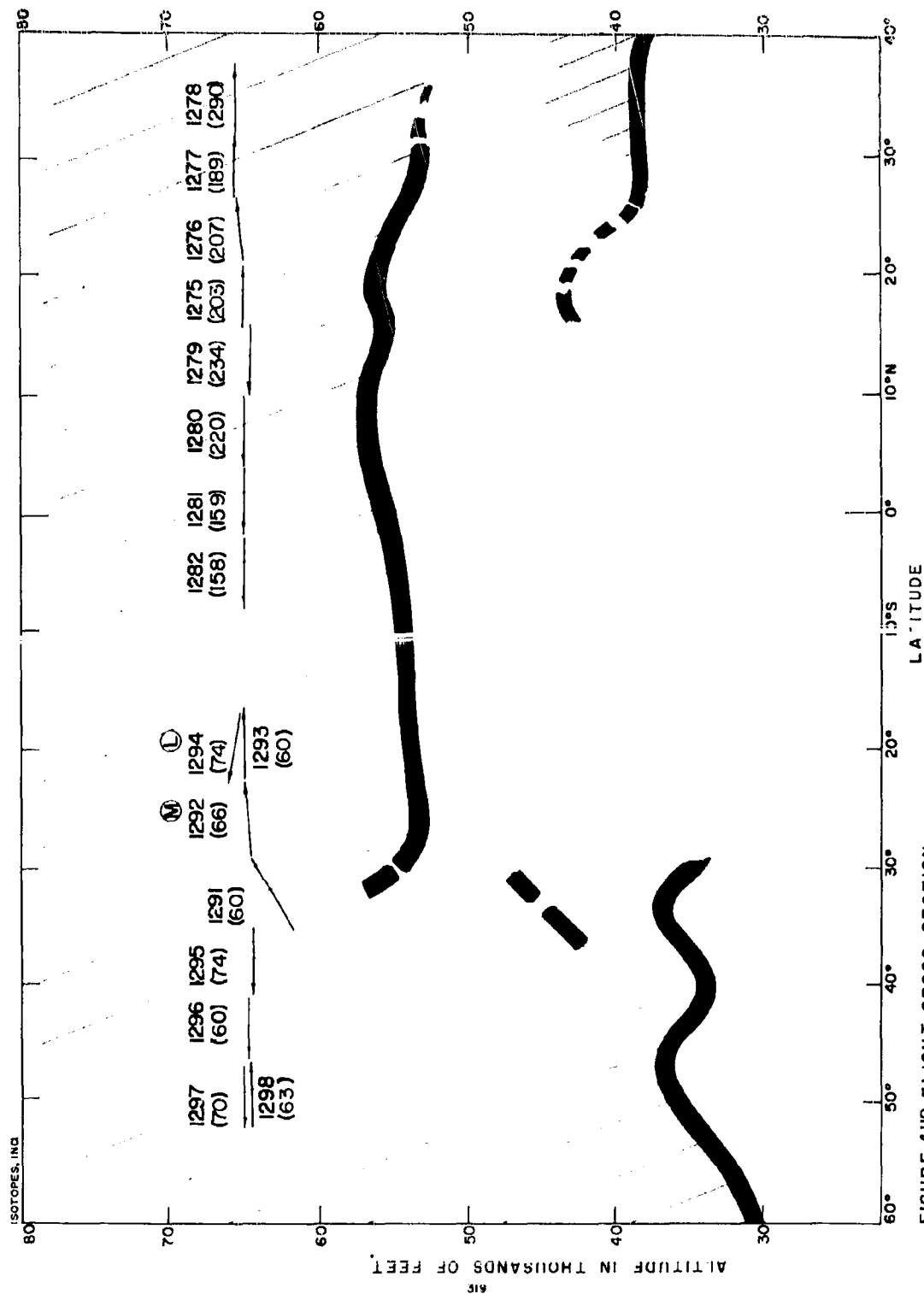


FIGURE 4.10 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	$\beta T_{1/2}$
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
1 April 1959 Mission 46										
705 RN	1300	30°N	65.4	35,000	221 ± 3	4240 ± 250	---	---	---	> 100
	1301	24°N	66.3	36,000	164 ± 8	4950 ± 200	6.0	---	---	> 100
	1302	19°N	67.2	41,000	215 ± 9	6210 ± 200	5.1	---	---	65
714 RS	1303	5°S	67.8	37,000	203 ± 8	15730 ± 320	5.2	14	---	> 100
	1304	1°N	69.1	49,000	225 ± 9	16250 ± 330	6.8	---	---	> 100
	1305	7°N	69.7	58,000	301 ± 11	17940 ± 720	6.3	14	< 0.1	> 100
	1306	13°N	70.5	67,000	410 ± 32	13030 ± 230	6.6	15	< 0.1	> 100

1 APR. 59

FLIGHT 46

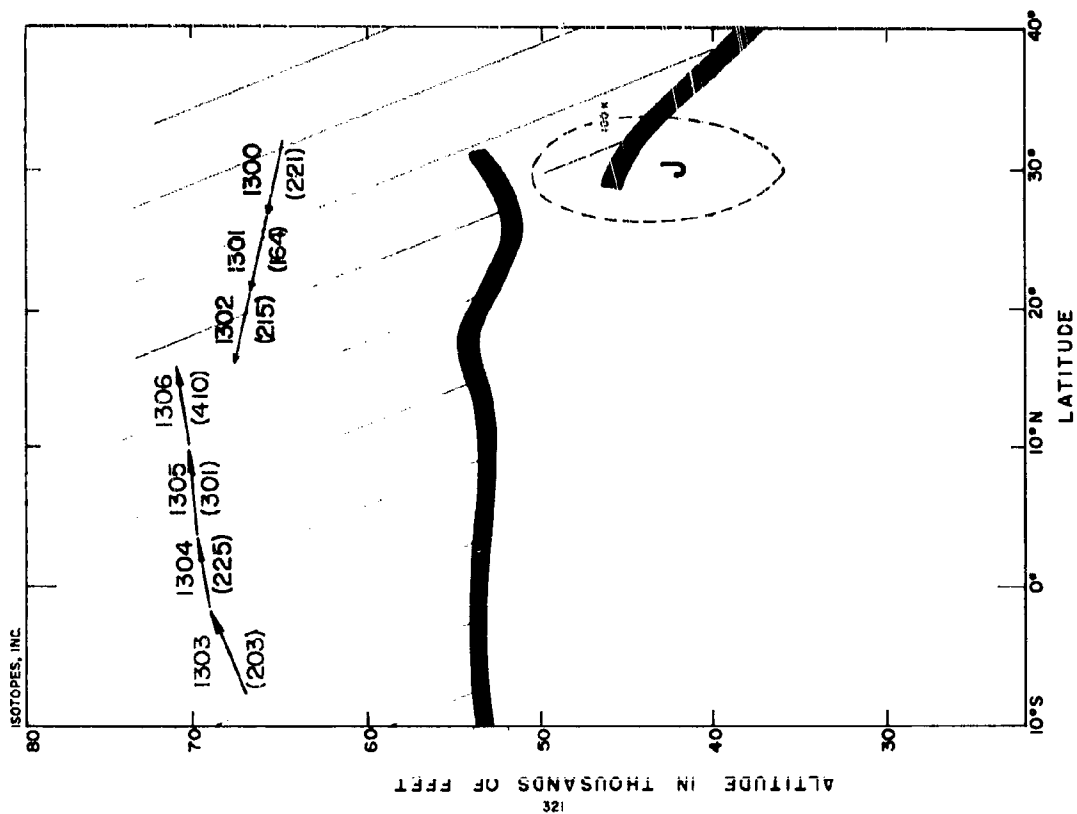


FIGURE 4.III FLIGHT CROSS SECTION

Table 4. (continued)

dpm/ 1000 SCF												
AC No.	HASP No.	Latitude	Altitude	Total Beta	W 185		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	β T _{1/2}		
					Sr 90	(Aug 58)						
3 April 1959 Mission 47												
715 RN	1307	19°N	60	15,600	70 ± 1	7440 ± 260	6.1	---	---	> 100		
	1308	24°N	60	22,000	117 ± 5	4800 ± 130	7.2	---	---	> 100		
	1309	30°N	60	21,000	123 ± 6	5180 ± 150	6.6	---	---	> 100		
	1310	35°N	60	27,000	154 ± 7	5390 ± 120	6.4	---	< 0.1	> 100		
714 RS	1311	13°N	60	14,500	66 ± 1	4090 ± 90	5.7	22	≤ 0.2	> 100		
	1312	7°N	60	14,700	56 ± 1	3450 ± 120	7.2	---	---	87		
	1313	2°N	60	10,100	42 ± 1	3670 ± 130	6.4	---	---	> 100		
	1314	5°S	60	6,700	44 ± 1	3960 ± 140	3.3	14	---	> 100		
716 ES	1315	38°S	40	1,170	8 ± 1	653 ± 14	---	---	---	> 100		
	1316	37°S	40	910	8 ± 1	600 ± 8	---	---	---	> 100		
718 ES	1317	38°S	50	3,300	23 ± 1	1340 ± 13	2.4	---	≤ 0.8	> 100		
	1318	37°S	50	3,800	28 ± 1	1601 ± 69	2.4	---	---	> 100		

4-17 (Rev. 1-1-59)

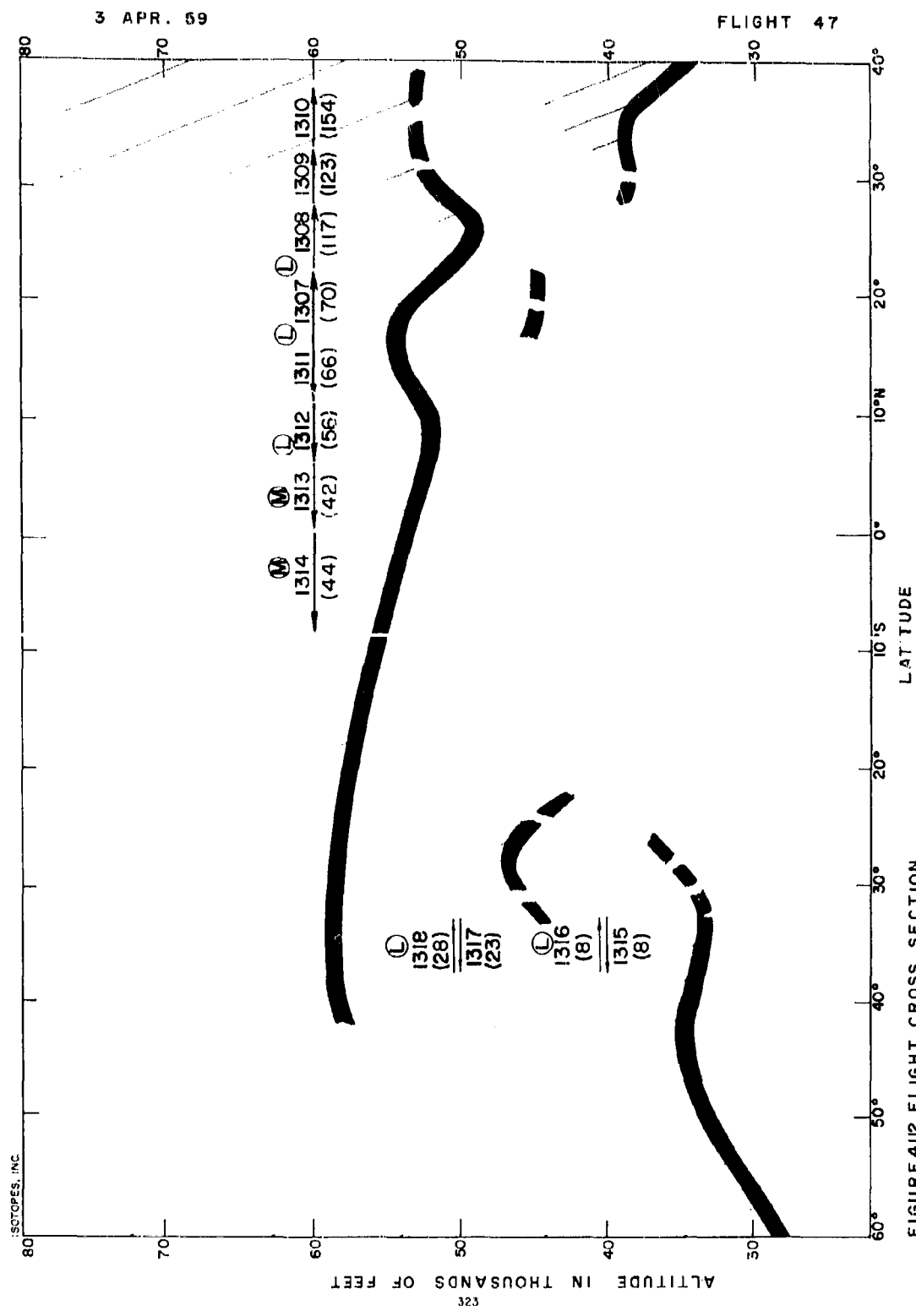


FIGURE 4.12 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)						
7 April 1959 Mission 48												
714 RN	1327	19°N	55	5,000	23 ± 1	1303 ± 16		6.8	---	---	---	97
	1328	24°N	55	7,700	44 ± 4	1290 ± 15		7.1	---	< 0.2	< 0.1	>100
	1329	30°N	55	17,200	110 ± 4	4680 ± 130		5.5	---	---	---	86
	1330	35°N	55	29,000	208 ± 6	6040 ± 210		5.4	---	---	< 0.1	>100
715 RS	1331	13°N	55	1,250	8 ± 1	398 ± 12		7.0	---	---	---	>100
	1332	9°N	55	< 1,330	6 ± 1	226 ± 15		2.0	---	---	---	---
	1333	1°N	55	< 900	2 ± 1	127 ± 8		8.8	---	---	---	---
	1334	5°S	55	< 820	1.8 ± 0.1	145 ± 10		9.2	---	---	---	---
717 EN	1323	32°S	55	3,400	33 ± 1	3490 ± 50		1.9	---	---	---	>100
	1324	25°S	55	1,830	7 ± 1	986 ± 84		10	---	---	---	>100
	1325	19°S	55	1,280	8 ± 1	588 ± 9		---	---	---	---	>100
	1326	19°S	55	1,330	7 ± 1	615 ± 17		5.4	---	---	---	>100
716 ES	1319	38°S	55	4,500	58 ± 2	1982 ± 75		---	---	---	---	>100
	1320	43°S	55	4,600	55 ± 1	1240 ± 63		---	---	---	---	90
	1321	49°S	55	4,800	59 ± 1	941 ± 56		1.7	---	< 0.5	< 0.5	>100
	1322	49°S	55.5	5,100	47 ± 1	996 ± 25		2.7	---	---	---	>100

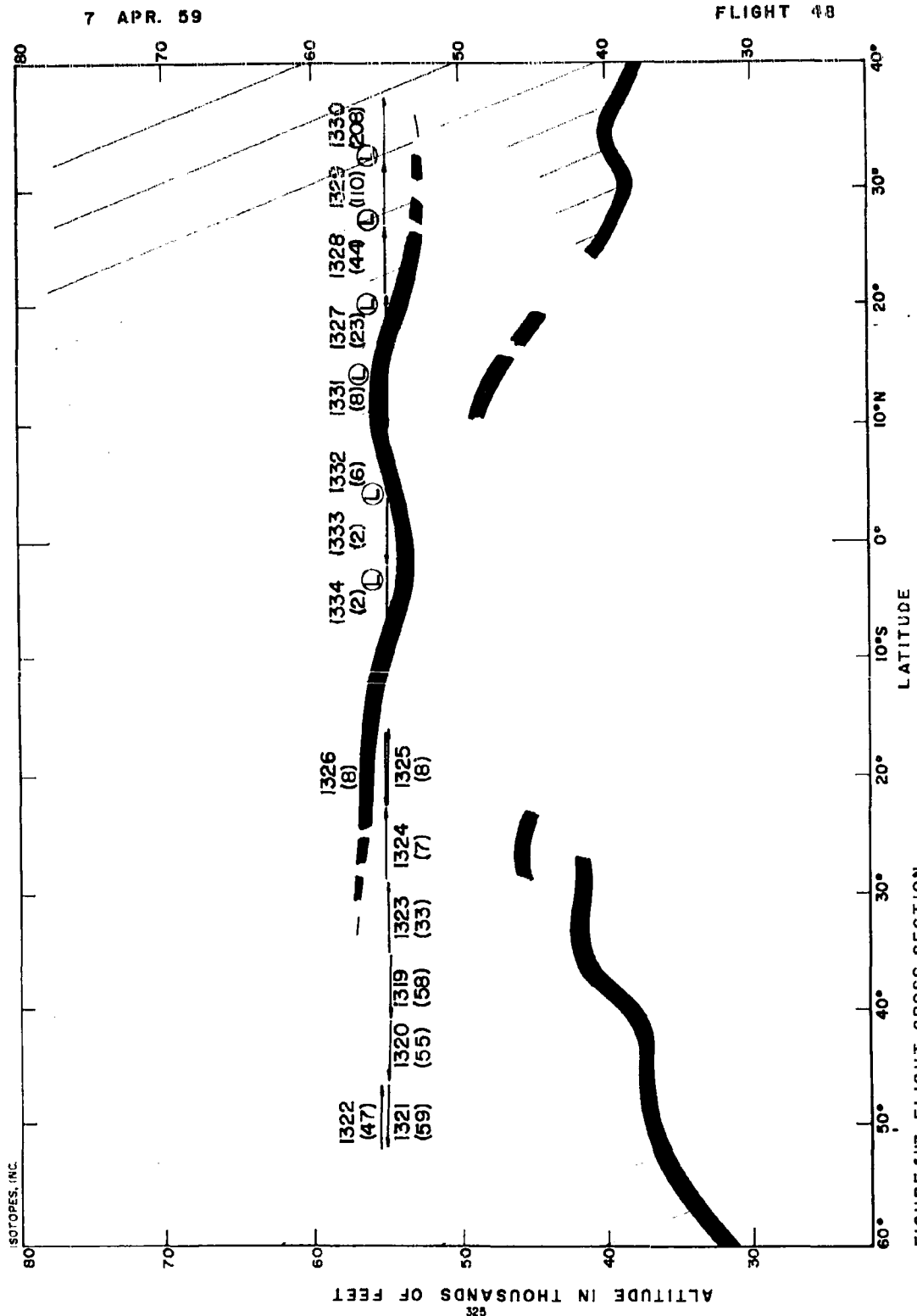


FIGURE 4.13 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF										
AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
IC April 1959 Mission 49										
715 RN	1335	19°N	65	29,000	184 ± 14	6010 ± 250	6.2	---	---	> 100
	1336	24°N	65	32,000	175 ± 8	4710 ± 180	5.0	---	---	> 100
	1337	30°N	65	28,000	222 ± 9	4600 ± 180	6.0	---	---	> 100
	1338	35°N	65	31,000	221 ± 3	3490 ± 50	4.6	---	< 0.1	> 100
705 RS	1339	13°N	64.5	37,000	182 ± 8	13590 ± 450	4.8	---	< 0.1	> 100
	1340	7°N	65	28,000	156 ± 7	13360 ± 440	7.0	---	---	> 100
	1341	1°N	65.3	30,000	158 ± 1	12240 ± 440	5.2	---	---	> 100
717 ES	1342	38°S	59.5	5,400	51 ± 1	1395 ± 38	1.8	---	< 0.8	> 100
	1343	38°S	60.5	4,800	51 ± 1	1609 ± 43	1.9	---	---	> 100
718 ES	1344	38°S	64.5	4,700	59 ± 1	353 ± 30	0.7	---	---	> 100
	1345	37°S	68.3	4,700	56 ± 2	233 ± 43	---	---	---	> 100

10 APR. 59

FLIGHT 49

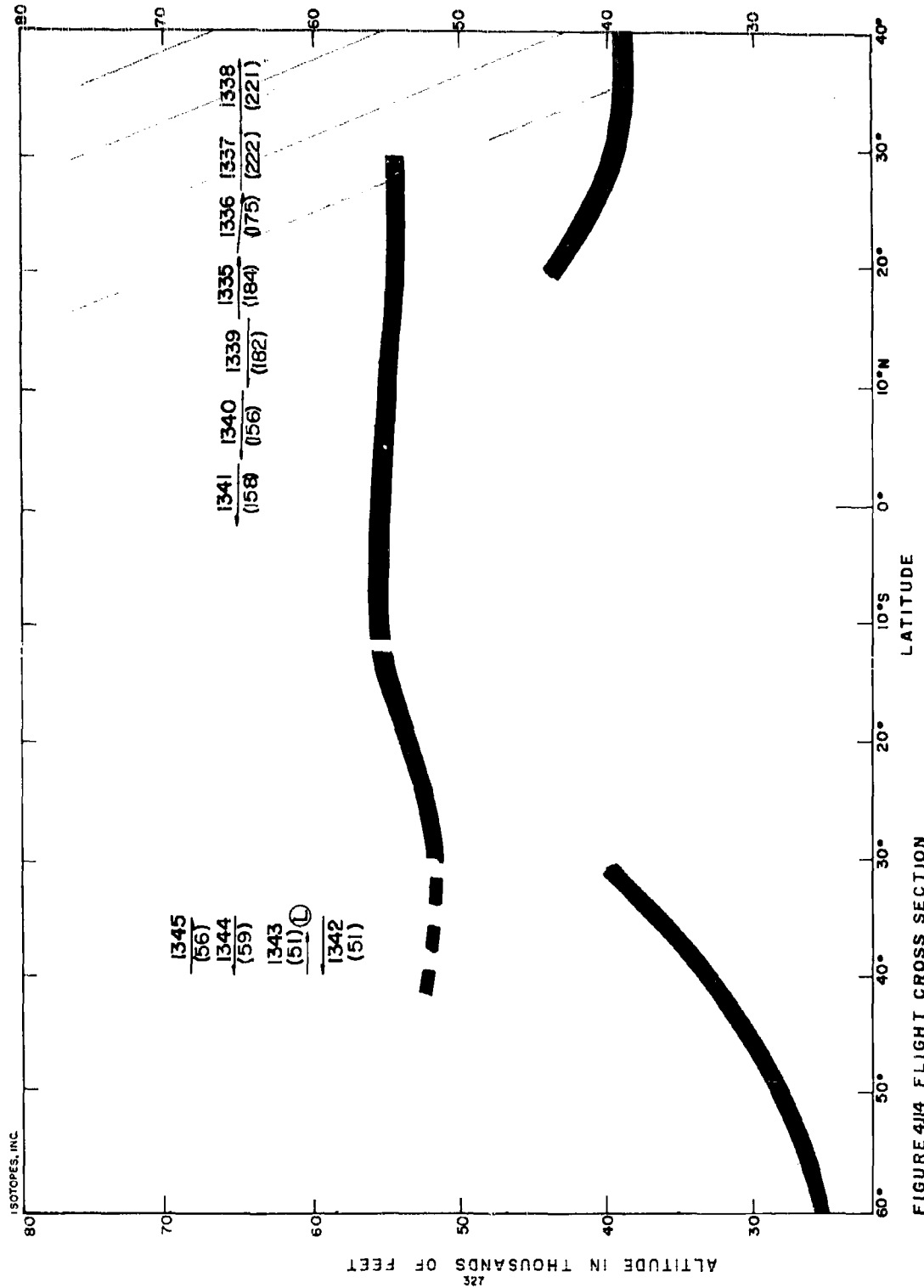


FIGURE 4J14 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	β T _{1/2}
14 April 1959 Sea Fish Special No. 3												
6676	1354	63°N	34.8	41,000			134 + 4	2320 + 70	12	21	< 0.1	> 100
	1355	68°N	35.4	30,000			129 + 4	2370 + 90	11	19	< 0.1	> 100
	1356	73°N	35.8	50,000			164 + 5	2890 + 100	11	13	< 0.1	88
	1357	78°N	36.7	51,000			173 + 6	2870 + 80	11	17	< 0.1	> 100
	1361	83°N	37.1	64,000			287 + 4	5020 + 60	8.7	16	< 0.1	> 100
	1358	83°N	37.7	43,000			151 + 5	3050 + 60	11	14	< 0.1	> 100
	1359	88°N	38.1	77,000			309 + 8	6330 + 180	12	21	< 0.1	> 100
	1360	88°N	38.1	113,000			383 + 10	8780 + 210	11	12	< 0.1	> 100
	1362	88°N	38.5	67,000			212 + 7	4500 + 150	---	18	---	> 100
	1363	83°N	39.2	55,000			215 + 8	4090 + 60	9.7	18	< 0.1	> 100
	1364	78°N	40.0	48,000			234 + 7	3970 + 40	8.9	18	< 0.1	> 100
	1365	73°N	40.9	27,000			129 + 5	3170 + 90	7.7	14	< 0.1	> 100
	1366	68°N	41.6	33,000			137 + 5	3380 + 100	9.7	19	< 0.1	> 100
	1367	63°N	42.2	65,000			278 + 8	7550 + 150	8.3	18	< 0.1	> 100

14 APR. 59

SEA FISH SPECIAL No. 3

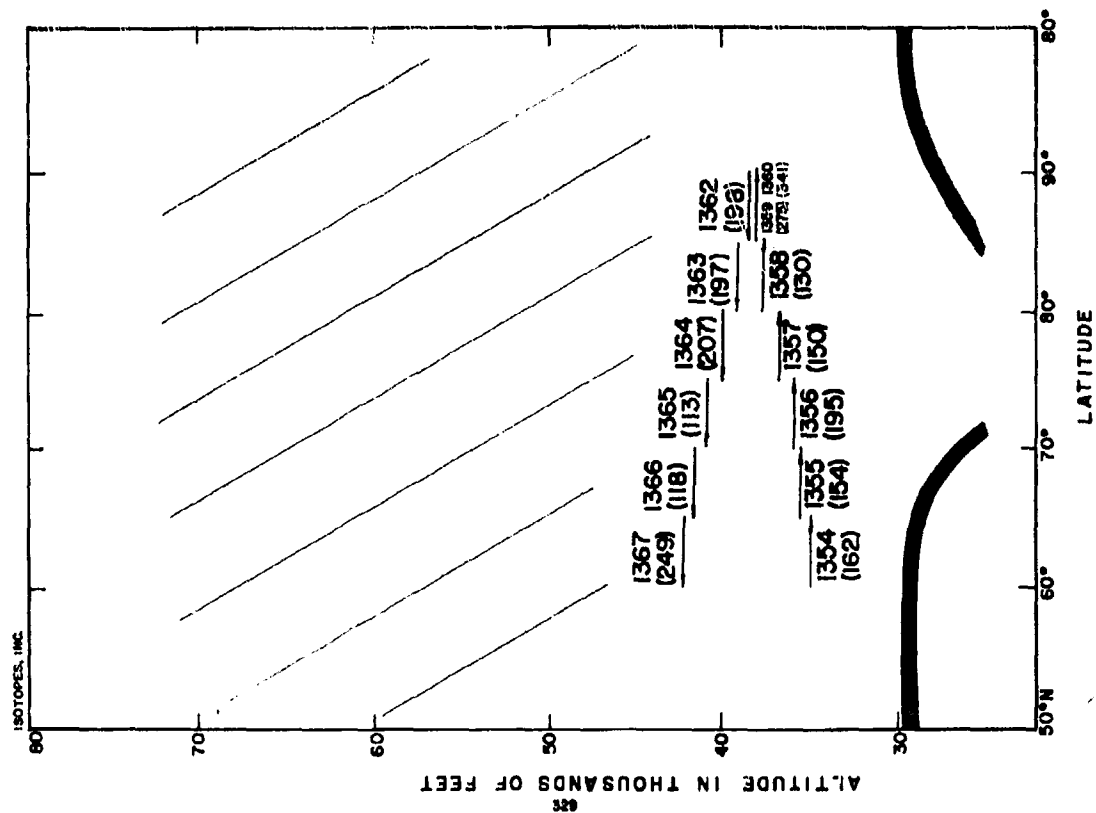


FIGURE 4.115 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF					Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	
				Total Beta	Sr 90	W185 (Aug 58)						
17 April 1959 Mission 51												
705 RN	1346	19°N	55	3,400	14 ± 1	800 ± 25		5.8	---	---	---	
	1347	24°N	55	8,000	41 ± 1	2230 ± 30		5.6	---	---	---	
	1348	30°N	55	17,100	104 ± 4	4510 ± 150		4.5	---	---	< 0.1	
	1349	35°N	55	23,000	127 ± 4	6490 ± 210		5.6	---	---	< 0.1	
714 RS	1350	13°N	55	2,200	10 ± 1	610 ± 12		2.4	---	---	---	
	1351	7°N	55	1,090	3 ± 1	200 ± 12		---	---	---	---	
	1352	1°N	55	≤ 860	3 ± 1	200 ± 12		---	---	---	---	
	1353	5°S	55	≤ 950	3 ± 1	200 ± 12		---	---	---	---	
718 ES	1371	38°S	40	500	4 ± 1	340 ± 10		3.6	---	---	---	
	1372	43°S	40	880	6 ± 1	470 ± 16		1.3	---	---	< 0.6	
	1373	37°S	40	720	4 ± 1	340 ± 10		3.6	---	---	---	
716 ES	1368	38°S	50	2,300	13 ± 1	1150 ± 25		1.4	---	---	---	
	1369	43°S	50	3,400	16 ± 1	690 ± 35		6.7	---	---	< 0.1	
	1370	37°S	50	2,300	24 ± 1	1630 ± 20		1.4	---	---	---	

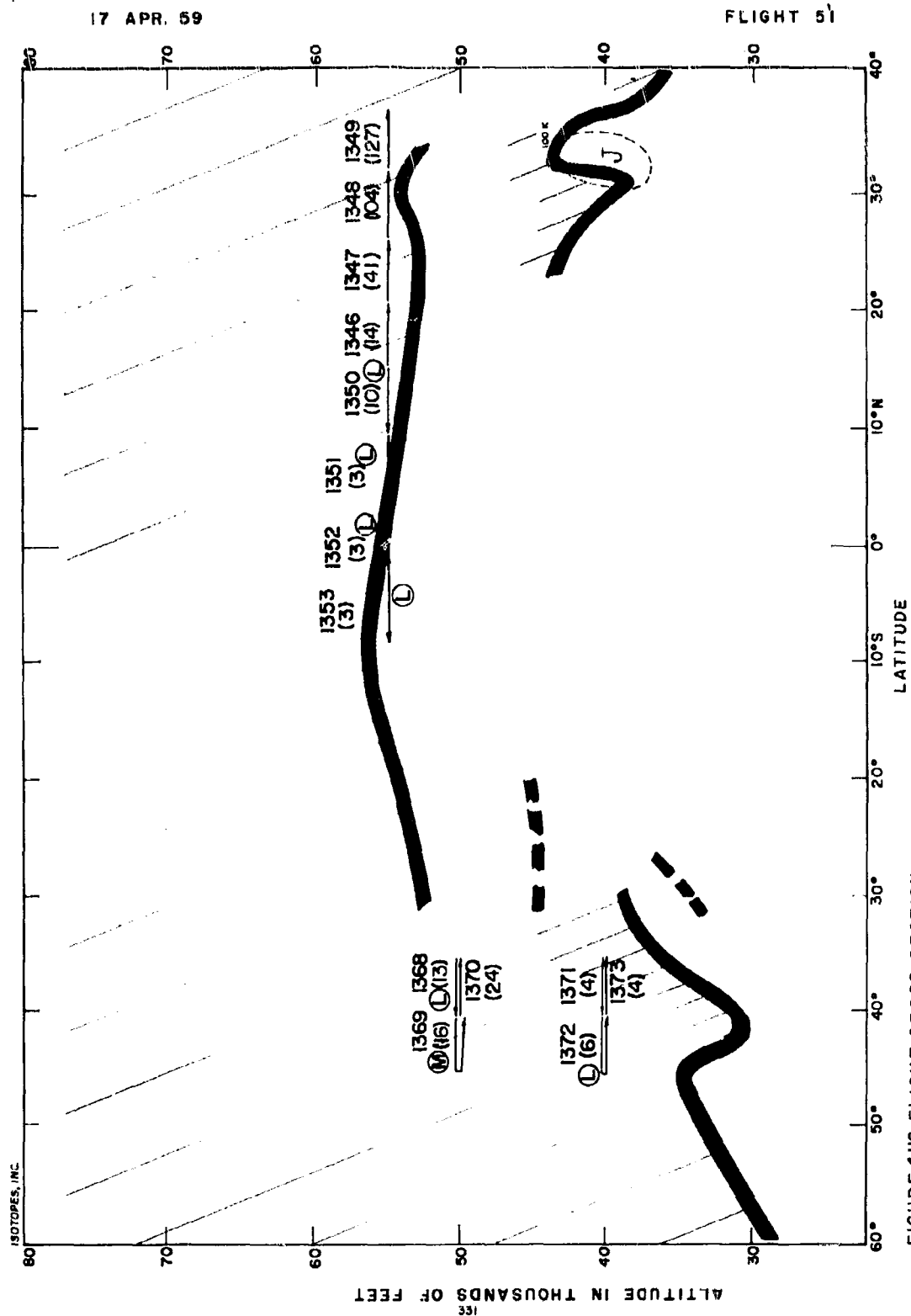


FIGURE 4.16 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				$\frac{\text{Sr}89}{\text{Sr}90}$	$\frac{\text{Ce}144}{\text{Sr}90}$	$\frac{\text{Ba}140}{\text{Sr}89}$
					Sr90	W185 (Aug 58)					
19 April 1959 Mission 52X											
714	1374	24°N	60	24,000	147 ± 5	5190 ± 130		4.2	---	< 0.1	
RP	1379	30°N	60	23,000	161 ± 1	4700 ± 50		4.3	---	---	
	1376	35°N	60	26,000	151 ± 6	5500 ± 230		5.0	---	---	
	1377	41°N	60	28,000	164 ± 6	5190 ± 160		4.0	---	< 0.1	
715	1378	23°N	64.7	24,000	177 ± 7	3880 ± 160		5.3	---	---	
RP	1370	29°N	66.3	30,000	233 ± 14	3790 ± 470		3.8	---	---	
	1380	35°N	66.8	24,000	235 ± 4	2200 ± 70		5.2	---	---	
	1381	41°N	67.1	13,200	150 ± 1	3680 ± 120		---	---	---	

19 APR. 59

FLIGHT 52X

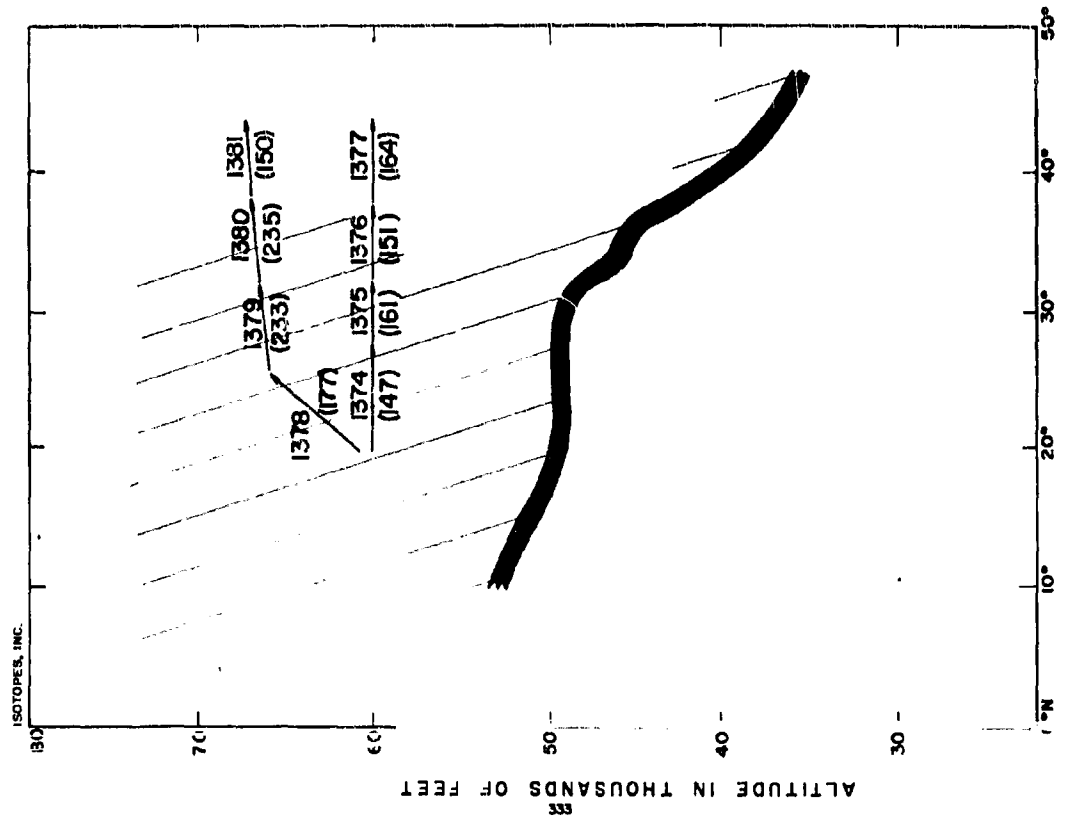


FIGURE 4.17 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm / 1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)				
21 April 1959 Mission 52										
705 PN	1382	47°N	49.2	17,700	91 ± 1	2140 ± 100	3.6	11	---	
	1384	58°N	49.8	22,000	95 ± 3	1803 ± 99	4.9	14	< 0.1	
	1385	63°N	49.7	21,000	109 ± 2	2170 ± 80	3.2	12	< 0.1	
715 PN	1386	47°N	60	26,000	26 ± 8	9390 ± 160	5.1	11	---	
	1388	58°N	60	24,000	26 ± 7	10300 ± 290	4.7	11	---	
	1389	63°N	60	29,000	22 ± 8	8300 ± 220	5.4	11	---	

21 APR. 59

FLIGHT 52

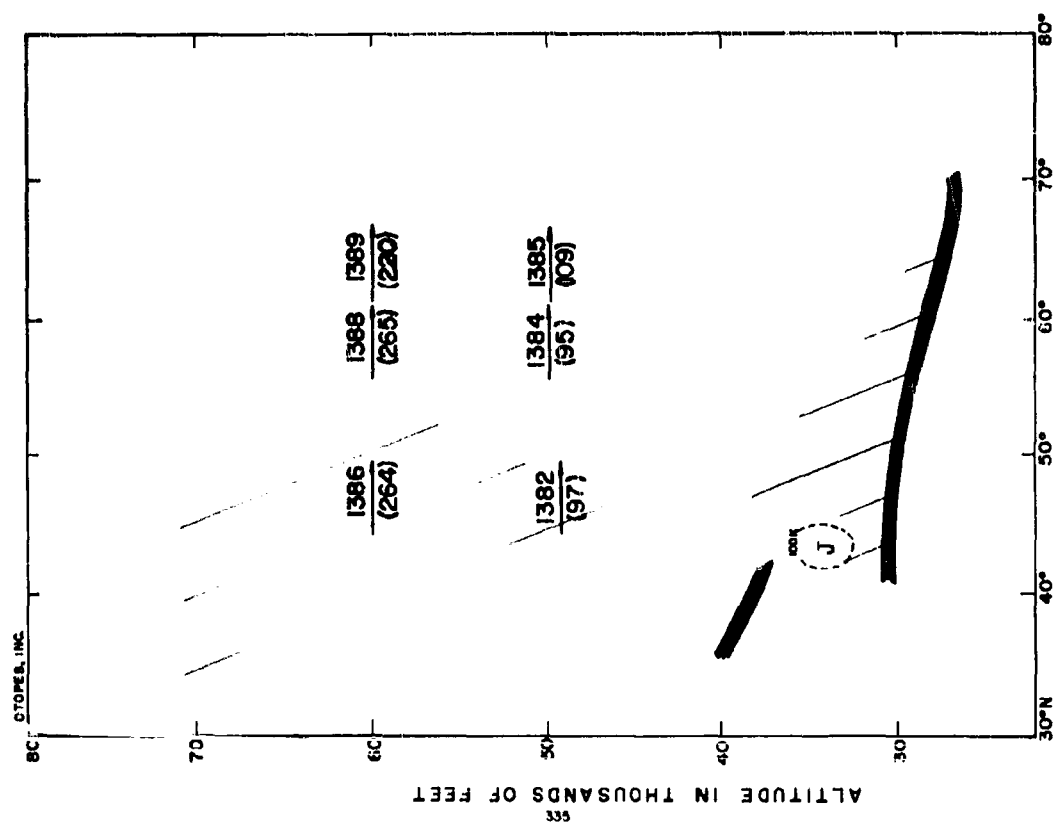


FIGURE 4J18 FLIGHT CROSS SECTION

Table 4.3 (continued)

HASP No.	Latitude	Altitude	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
			Total Beta	Sr 90	W 185 (Aug 58)			
<u>22 - 29 April 1959 North Flight</u>								
<u>22 April 1959</u>								
1663	70°N	61	16,000	196 ± 5	1102 ± 29	2.2	13	
<u>22 April 1959</u>								
1664	71°N	65	24,000	257 ± 16	979 ± 18	1.6	9.2	
<u>23 April 1959</u>								
1665	71°N	50	6,600	53 ± 1	2040 ± 60	---	14	
<u>25 April 1959</u>								
1666	70°N	60	18,300	219 ± 4	670 ± 29	1.6	10	
<u>28 April 1959</u>								
1667	72°N	50	15,400	146 ± 29	5230 ± 460	3.6	13	
<u>29 April 1959</u>								
1668	70°N	63.5	16,900	179 ± 3	422 ± 5	2.3	13	

22 APR. - 29 APR. 1959

NORTH FLIGHT

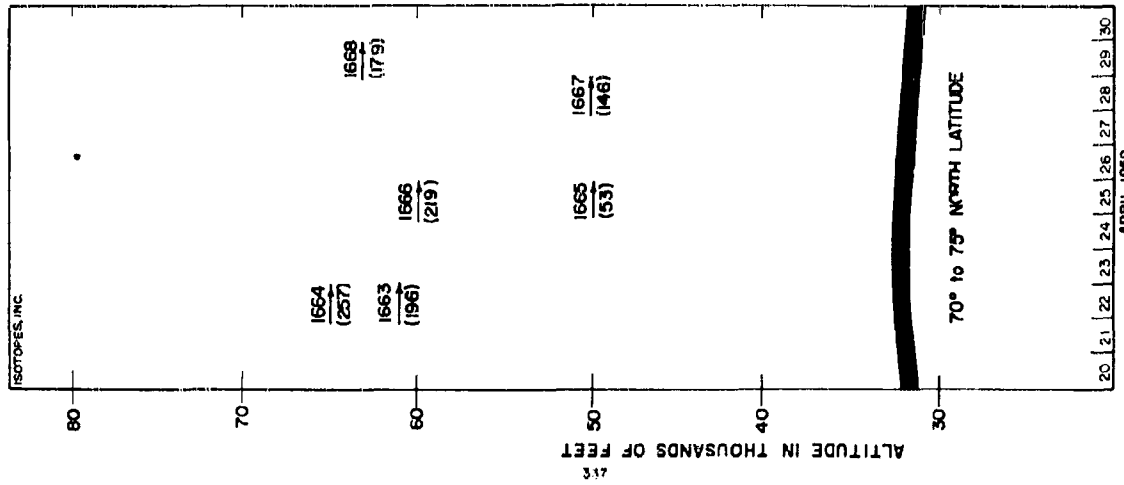
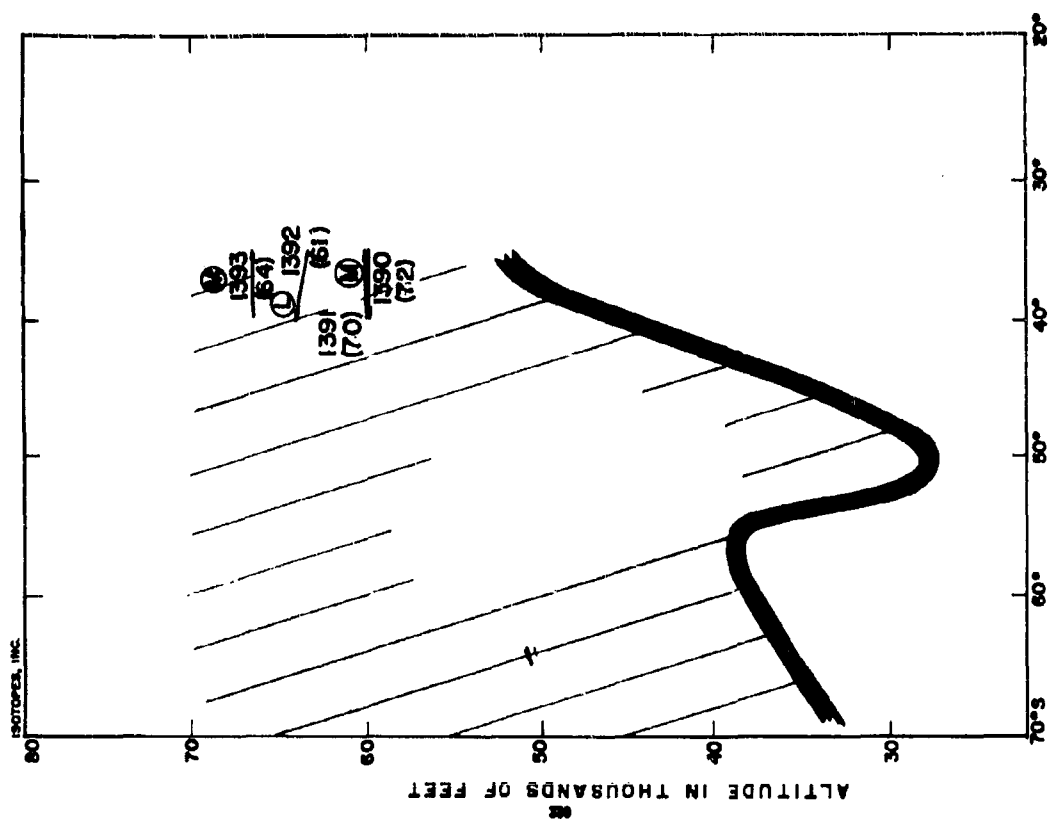


FIGURE 4.119 FLIGHT DIAGRAM

Table 4.3 (continued)

AAC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF					$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$	
				Total Beta	Sr^{90}	W^{185} (Aug 58)						
24 April 1959 Mission 53												
718	1390	38°S	60	5,000	72 + 2	1552 + 43		---	---	---		
ES	1391	37°S	60	5,000	70 + 3	1530 + 136		4.1	---	---		
716	1392	38°S	63.8	4,500	61 + 1	193 + 37		0.6	---	---		
ES	1393	37°S	66.6	4,400	64 + 2	321 + 22		0.8	8.3	---		

[illegible]
$$\begin{aligned} \frac{\partial}{\partial t} &= -\frac{1}{2} \left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} \right) \\ \Delta &= -\frac{1}{2} \left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} \right) \end{aligned}$$


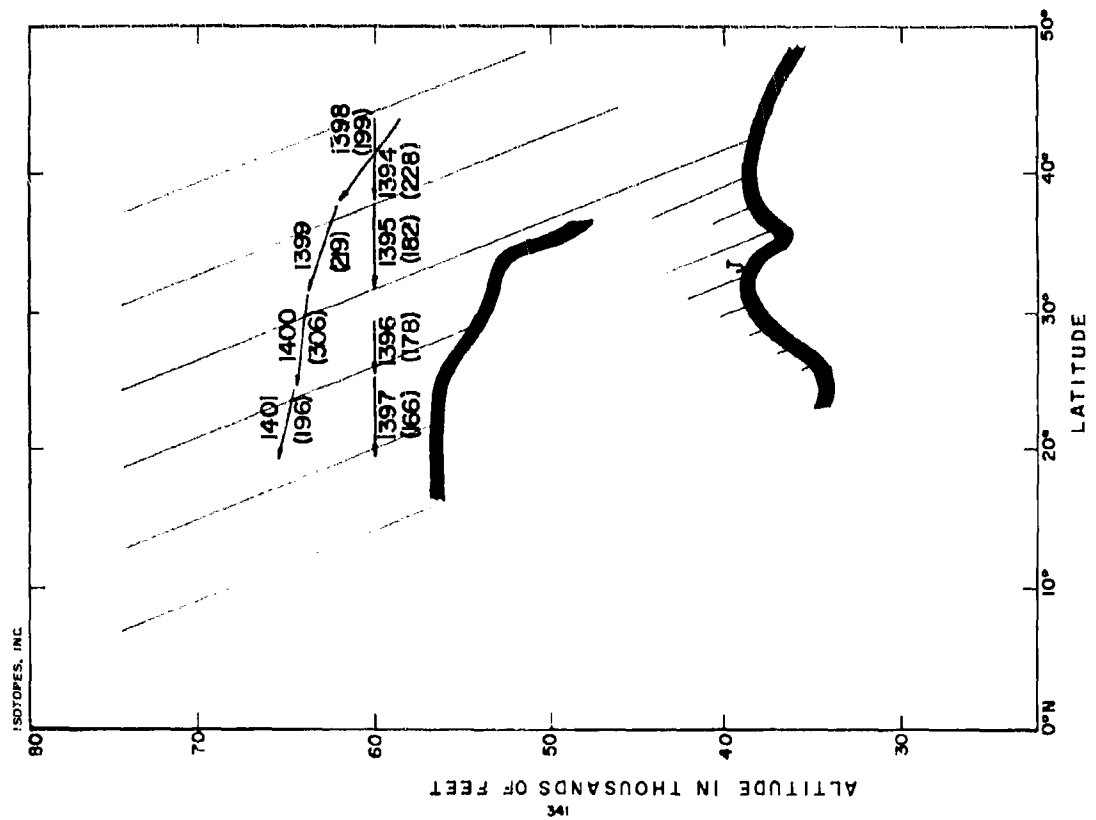
LATITUDE
FIGURE 4.120 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)				
26 April 1959 Mission 53X										
705	1394	41°N	60	26,000	228 ± 5	4480 ± 130	3.5	---	---	<0.1
PR	1395	35°N	60	25,000	182 ± 2	4610 ± 120	3.8	---	---	---
	1396	28°N	60	26,000	178 ± 8	4630 ± 80	4.1	---	---	---
	1397	23°N	60	24,000	166 ± 6	4910 ± 150	3.8	---	---	---
714	1398	41°N	61	27,000	199 ± 6	4590 ± 140	3.6	---	---	<0.1
PR	1399	35°N	63	27,000	219 ± 7	4340 ± 100	3.9	---	---	---
	1400	28°N	64.1	31,000	196 ± 31	6800 ± 700	2.4	9.9	---	---
	1401	22°N	65.1	26,000	196 ± 9	5440 ± 230	3.6	---	---	---

26 APR. 59

FLIGHT 53X



FLIGHT 4.121 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF			Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89	
				Total Beta	Sr 90	W185 (Aug 58)				
28 April 1959 Mission 54										
714 RN	1402	19°N	60	19,700	155 ± 6	5160 ± 510	3.5	---	< 0.1	
	1403	24°N	60	11,900	79 ± 2	4130 ± 60	---	---	---	
	1404	30°N	60	18,400	155 ± 6	3400 ± 120	3.5	---	< 0.1	
	1405	35°N	60	21,000	147 ± 6	2100 ± 240	3.4	---	< 0.2	
705 RS	1406	13°N	59.5	12,100	83 ± 1	5600 ± 220	4.3	---	---	
	1407	7°N	60	10,100	55 ± 1	3800 ± 150	3.9	---	---	
	1408	1°N	60	6,800	33 ± 1	3050 ± 120	5.1	---	---	
	1409	5°S	60	3,600	26 ± 1	2450 ± 40	4.1	---	---	
716 ER	1410	29°S	60	4,600	53 ± 2	1837 ± 39	1.3	12	---	
	1411	23°S	60	5,000	38 ± 1	2650 ± 60	2.7	---	---	
	1412	16°S	60	3,900	17 ± 1	2980 ± 160	1.5	---	---	
	1413	10°S	60	3,500	20 ± 1	2330 ± 150	1.0	---	---	

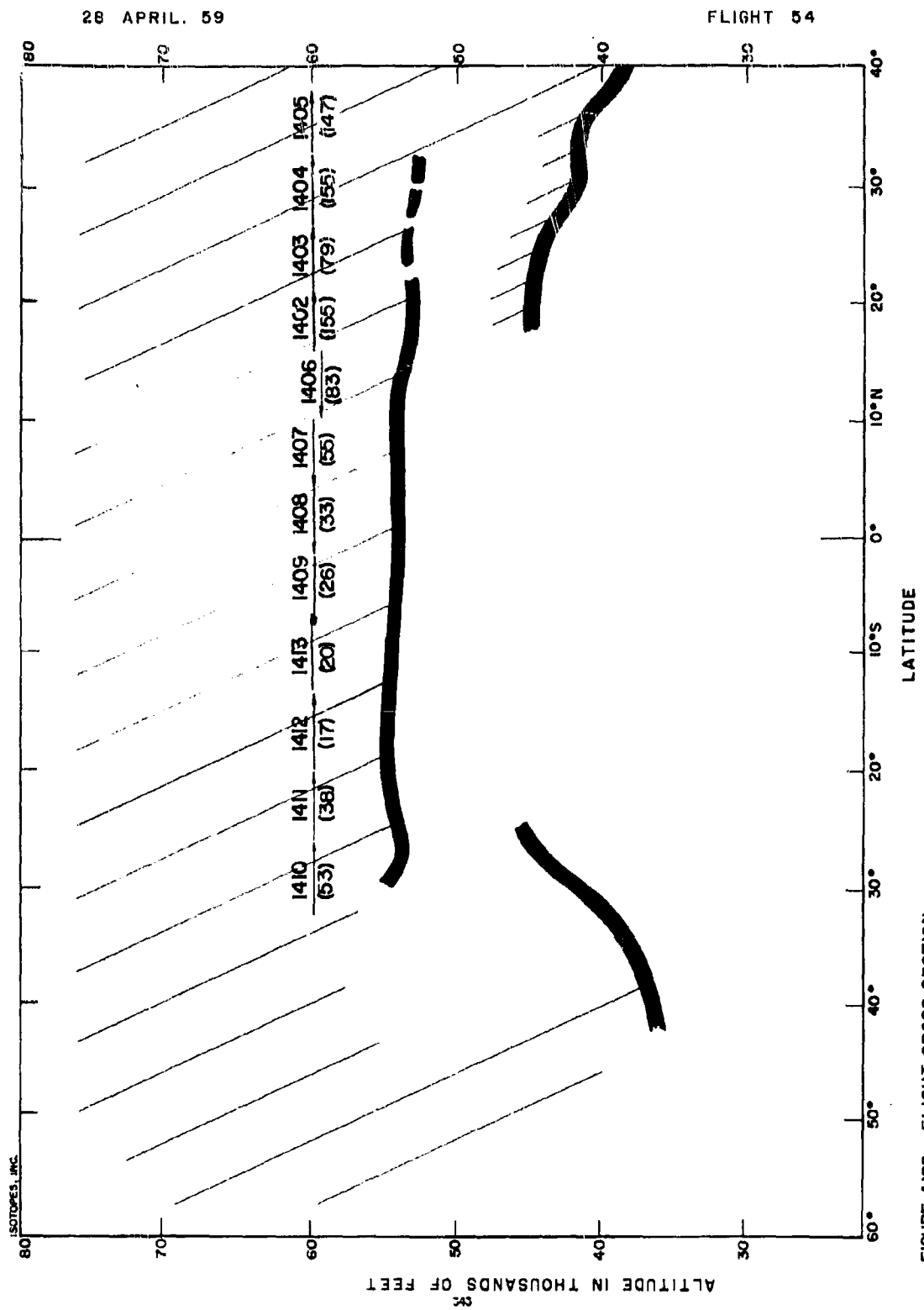


FIGURE 4.122 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF									
AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
1 May 1959 Mission 55									
705	1414	19°N	55	3,400	18 ± 1	---	4.7	---	---
RN	1415	24°N	55	3,100	16 ± 1	---	5.9	---	---
	1416	30°N	55	7,400	45 ± 1	---	4.1	---	---
	1417	35°N	55	16,600	118 ± 4	---	4.2	---	≤ 0.1
718	1418	38°S	40	660	7 ± 1	---	2.7	---	---
ES	1419	37°S	40	930	6 ± 1	---	4.0	---	---
717	1420	38°S	50	1,350	14 ± 1	1042 ± 22	2.1	---	---
ES	1421	37°S	49.5	2,300	18 ± 1	1187 ± 49	1.5	14	---

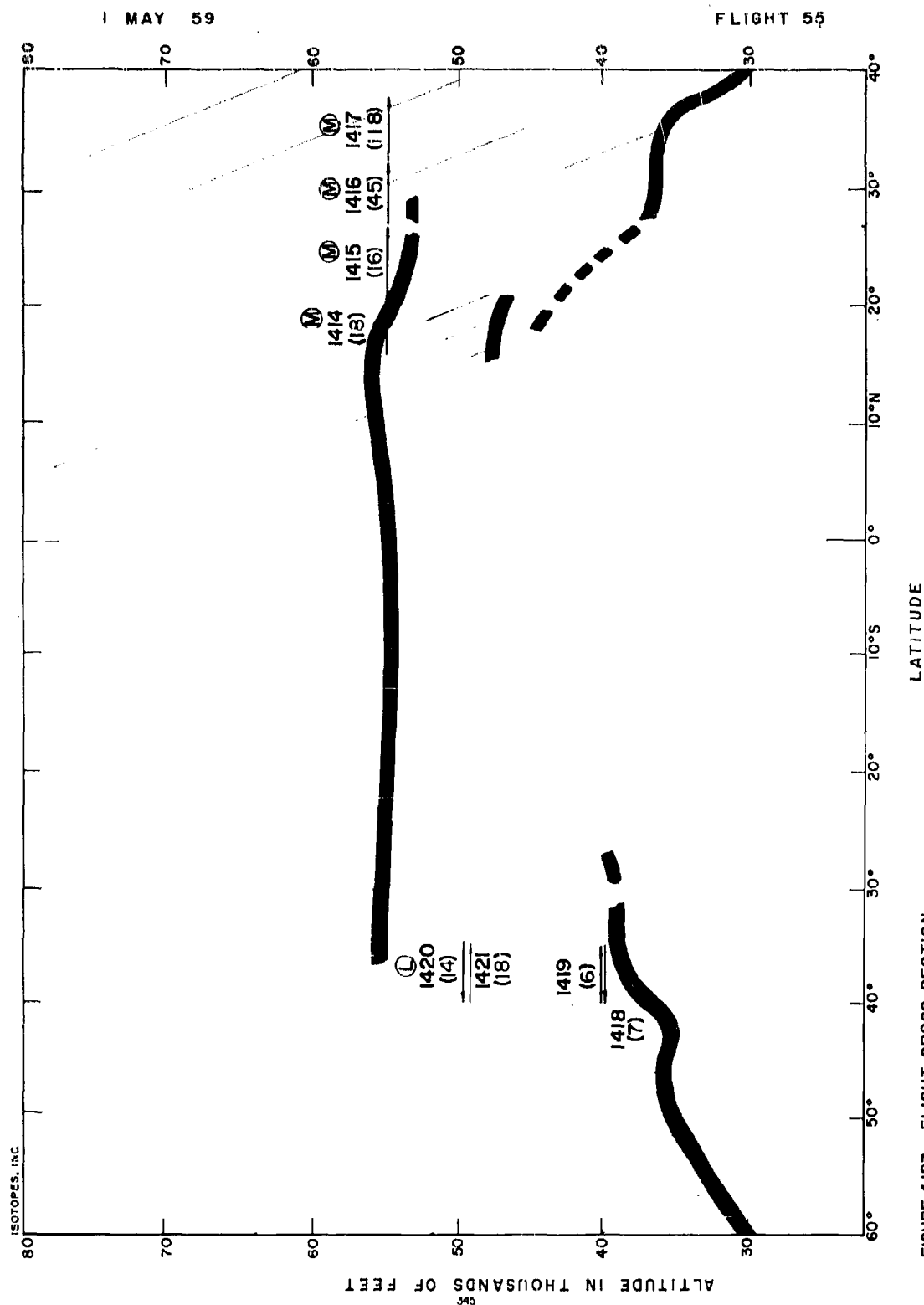


FIGURE 4123 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpr		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89
					30	35			
5 May 1959 Mission 56									
714 RS	1427	5°S	66.3	19,900	154 ± 3	9970 ± 340	2.5	13	---
	1428	1°N	68	23,000	175 ± 1	12820 ± 360	2.7	---	---
	1429	7°N	68.7	34,000	223 ± 11	13820 ± 540	4.4	---	---
	1430	13°N	69.7	38,000	296 ± 33	12520 ± 1080	4.6	12	---
718 EN	1422	32°S	63.7	6,500	73 ± 1	1994 ± 187	1.7	10	---
	1423	25°S	64.9	7,500	75 ± 1	2450 ± 50	2.0	---	---
	1424	19°S	66.1	8,000	73 ± 1	4140 ± 280	2.8	---	---
	1425	13°S	67.4	20,000	154 ± 1	11730 ± 260	3.5	14	≤ 0.2
717 ES	1426	38°S	55	3,600	29 ± 1	---	2.7	---	---

5 MAY 59

FLIGHT 56

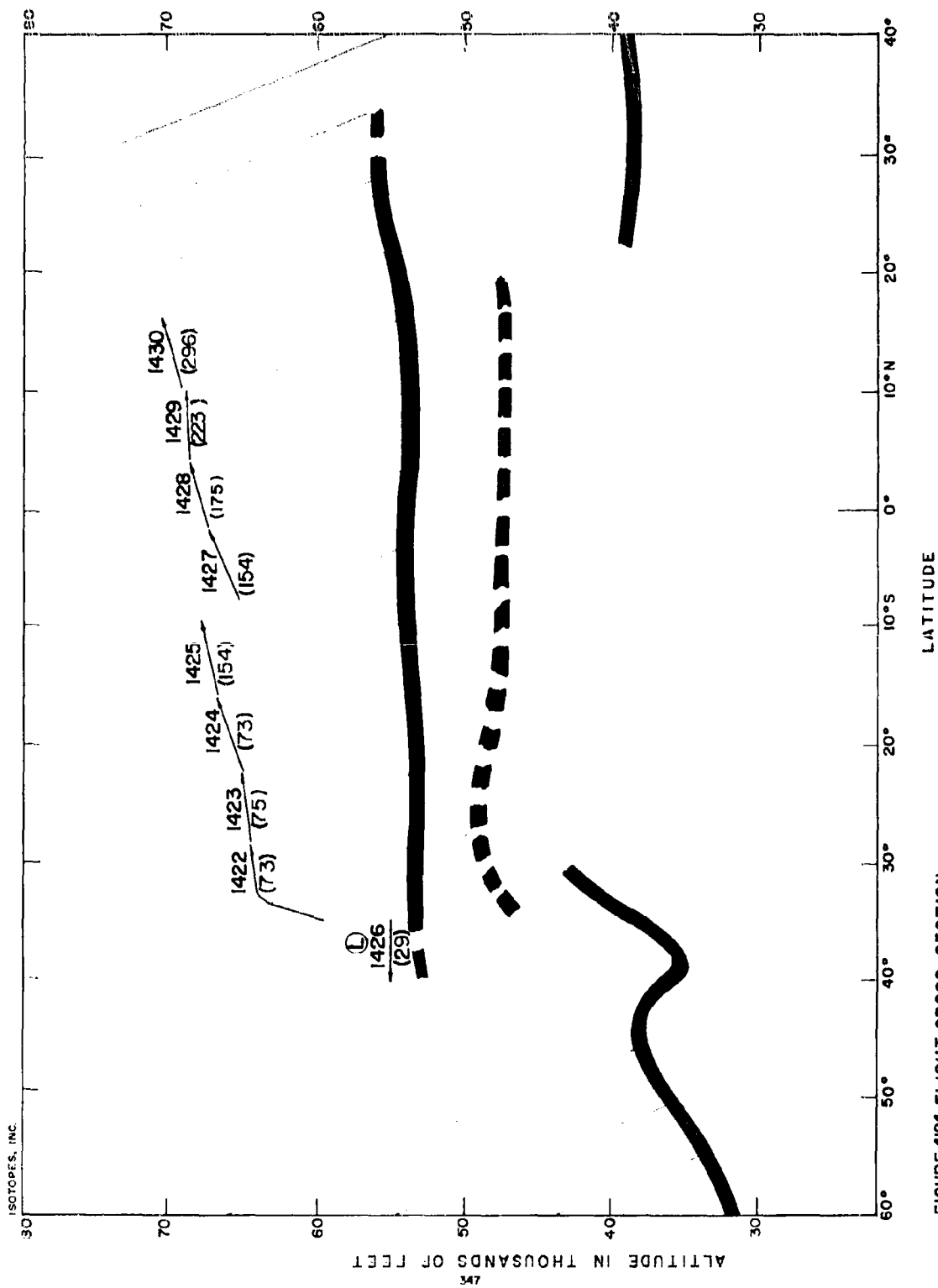


FIGURE 4124 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
8 May 1959 Mission 57										
705 RN	1431	19°N	60	10,000	56 + 1	4830 + 170		4.9	---	---
	1432	25°N	60	11,100	72 + 3	5990 + 210		3.9	---	---
	1433	30°N	60	19,000	141 + 7	6840 + 220		3.9	---	---
	1434	35°N	60	19,500	159 + 1	6350 + 220		3.0	---	---
714 RS	1435	13°N	60	11,500	65 + 1	5940 + 150		4.0	---	---
	1436	7°N	60	11,100	65 + 2	5010 + 100		3.9	---	---
	1437	1°N	60	6,900	40 + 1	3720 + 80		4.2	---	---
	1438	5°S	61.3	6,300	33 + 1	4790 + 50		6.5	---	---
717 ES	1439	38°S	60	5,100	66 + 1	1077 + 29		0.9	11	---
	1440	37°S	60	5,200	64 + 2	1089 + 28		1.2	---	---
717 ES	1441	38°S	64.4	4,400	63 + 2	411 + 24		0.8	---	---
	1442	37°S	67.5	5,500	63 + 2	484 + 23		1.2	---	---

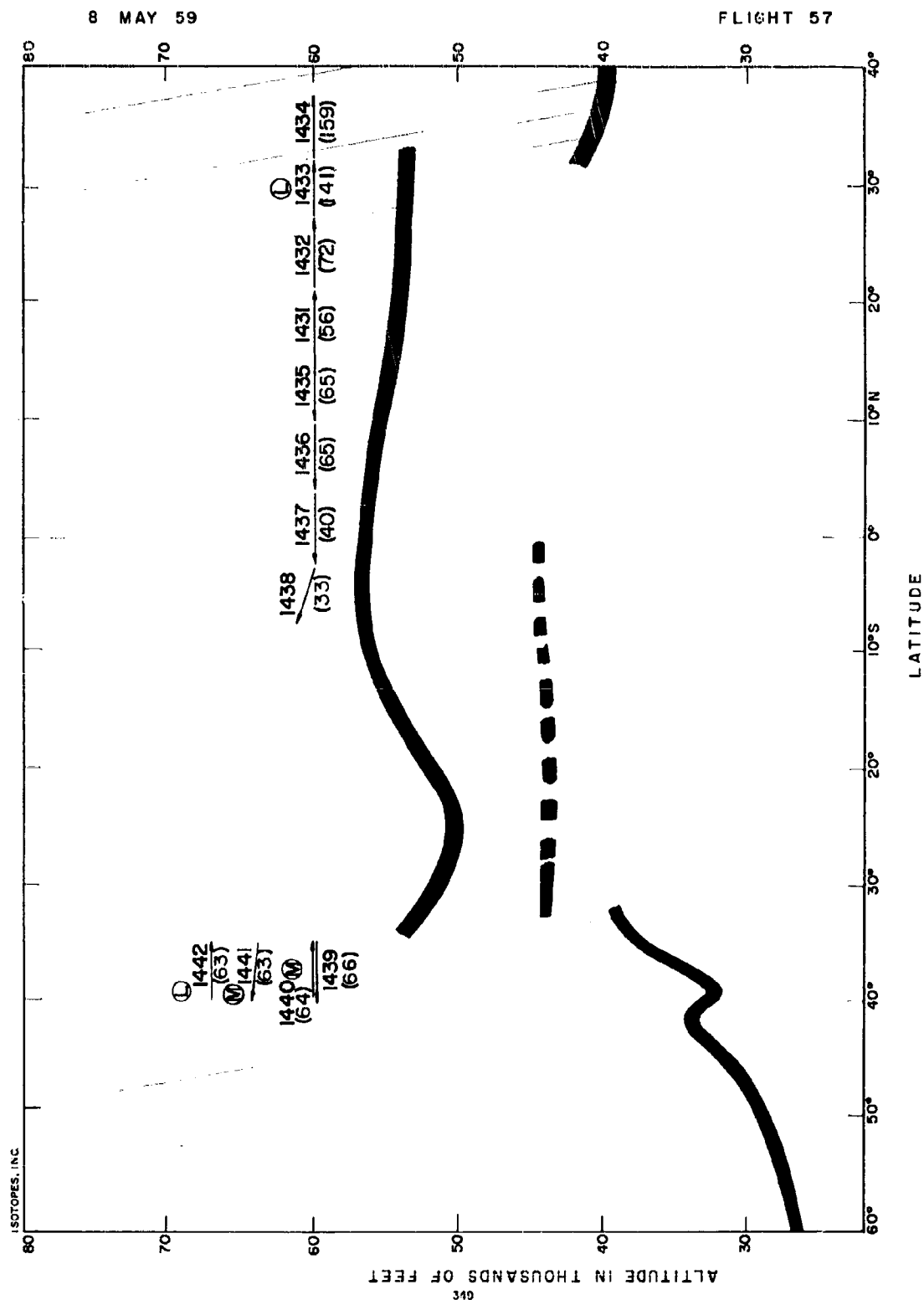


FIGURE 4125 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
12 May 1959 Mission 58									
705 RN	1450	19°N	55	3,200	21 ± 1	1080 ± 15	3.2	---	---
	1451	24°N	55	2,300	13 ± 1	---	4.1	---	---
714 RS	1452	13°N	55	1,020	3 ± 1	---	6.4	---	---
	1453	7°N	55	<1,040	3 ± 1	---	6.4	---	---
	1454	1°N	55	< 920	3 ± 1	---	6.4	---	---
	1455	5°S	55	< 440	3 ± 1	---	6.4	---	---
718 EN	1443	32°S	55	3,300	3 ± 1	1537 ± 89	1.6	---	---
	1444	25°S	55	1,690	14 ± 1	---	0.5	---	---
	1445	19°S	55.5	520	3 ± 1	---	2.8	---	---
717 ES	1446	38°S	64.8	5,100	65 ± 3	432 ± 18	---	10	---
	1447	43°S	66	3,100	57 ± 1	<165	---	11	---
	1448	49°S	66.8	3,800	51 ± 1	< 64	---	11	---
	1449	54°S	67.5	2,800	64 ± 2	241 ± 33	0.5	11	---

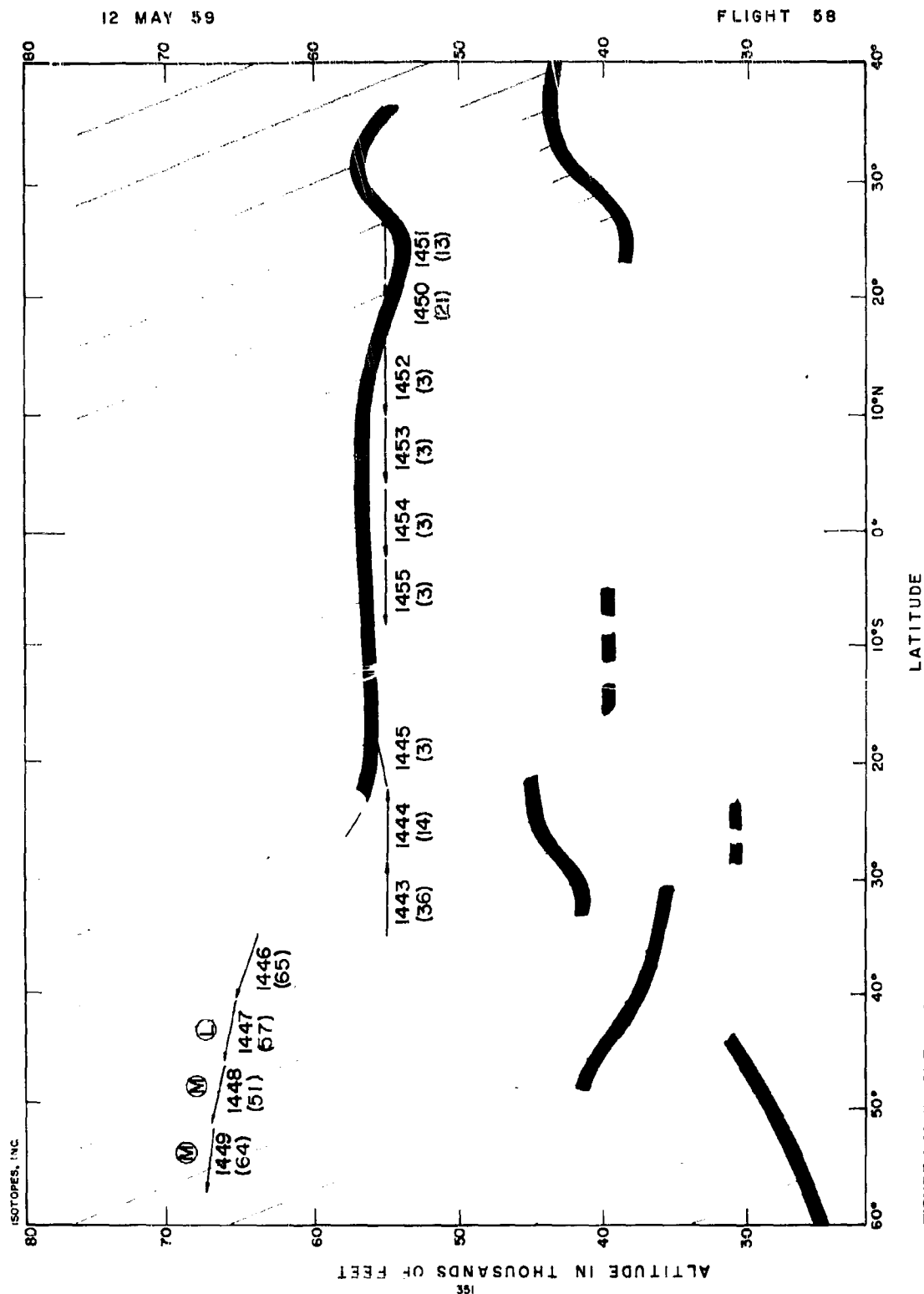


FIGURE 4126 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				Sr89 Sr90	Ce ¹⁴⁴ Sr90	Ba ¹⁴⁰ Sr89
					Sr90	W185 (Aug 58)					
15 May 1959 Mission 59											
717	1456	37°S	40	1,730	16 ± 1	1001 ± 44		1.9	---	---	
ES	1457	37°S	40	2,200	22 ± 1	1196 ± 47		1.3	10	---	
718	1458	38°S	50	3,800	41 ± 2	2170 ± 26		---	---	---	
ES	1459	38°S	50	3,400	40 ± 1	1482 ± 30		2.1	9.0	---	

15 MAY 59

FLIGHT 59

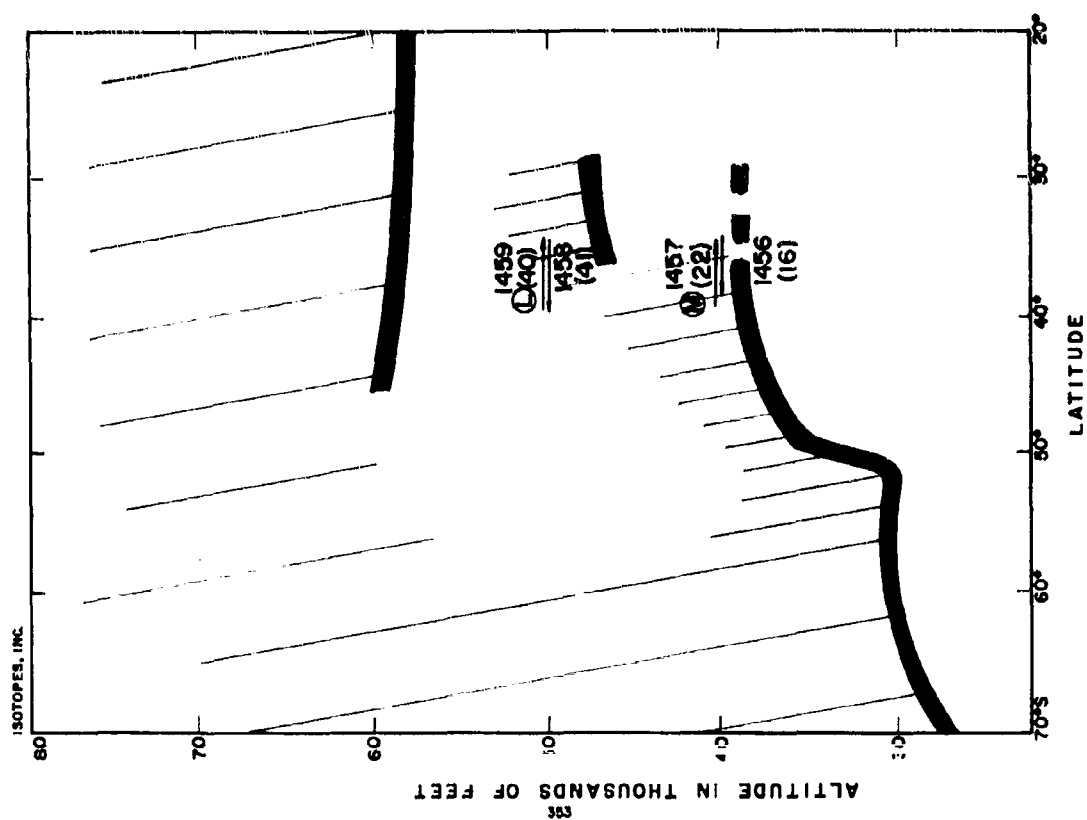


FIGURE 4.127 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	$\frac{\text{Ba}^{140}}{\text{Sr}^{89}}$
					Sr90	W185 (Aug 58)			
17 May 1959 Mission 60X									
714 RP	1460	23°N	55	3,300	22 ± 1	1214 ± 21	2.7	---	---
	1461	29°N	55	7,800	57 ± 1	2680 ± 30	4.2	---	---
	1462	36°N	55	16,700	31 ± 3	4990 ± 220	4.4	---	< 0.1
	1463	42°N	55	19,000	164 ± 6	4400 ± 130	2.5	---	---
715 RP	1464	23°N	60	14,400	100 ± 5	3840 ± 80	---	---	---
	1465	29°N	60	14,200	116 ± 5	4370 ± 150	3.0	---	---
	1466	35°N	60	18,200	136 ± 4	3800 ± 80	3.4	---	---
	1467	41°N	60	18,000	173 ± 7	3140 ± 170	3.0	---	---
705 RP	1468	23°N	63.6	21,000	173 ± 8	4250 ± 230	3.6	---	---
	1469	29°N	64.6	28,000	201 ± 9	5540 ± 260	3.5	---	---
	1470	35°N	65	26,000	194 ± 9	4980 ± 300	3.9	---	---
	1471	41°N	65.7	21,000	241 ± 9	1492 ± 30	2.9	---	---

17 MAY 59

FLIGHT 60X

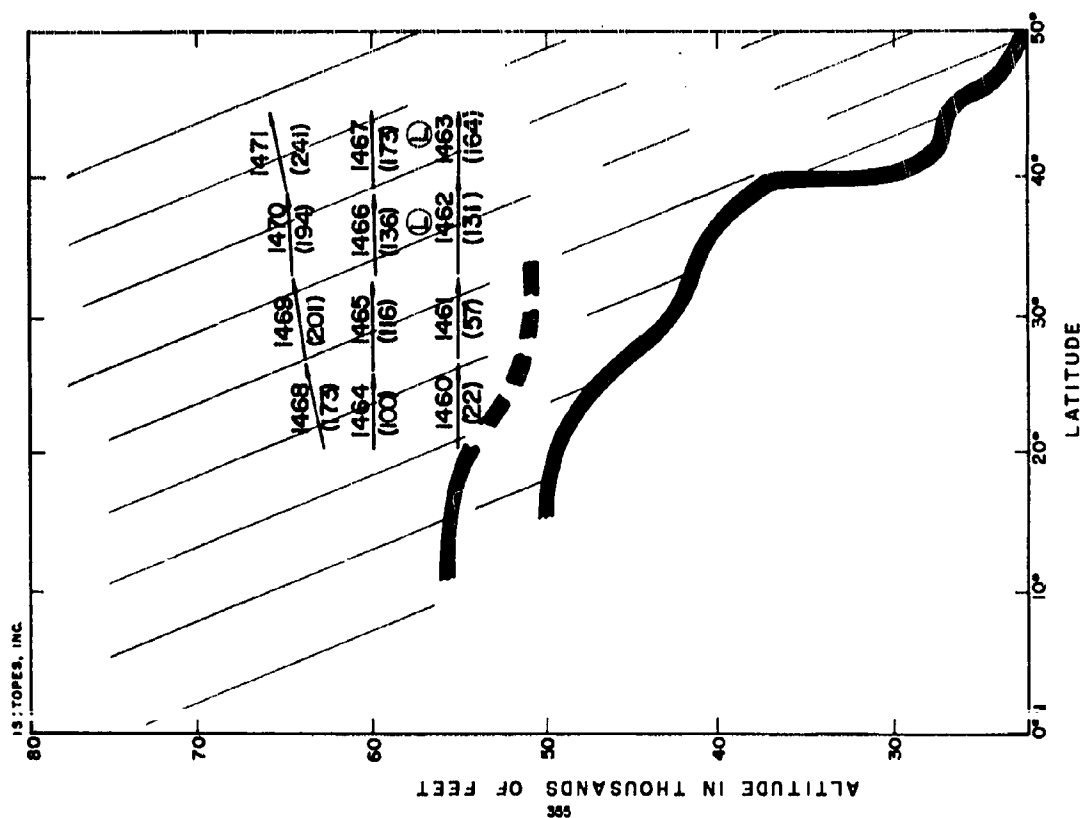


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
				Total Beta	Sr ⁹⁰	W185 (Aug 58)				
20 May 1959 Mission 60										
714 PN	1472	47°N	45	18,600	109 + 6	3140 + 110	5.5	---	---	< 0.1
	1473	52°N	45	17,300	109 + 4	4220 + 80	4.7	15	---	---
	1474	58°N	45	11,700	77 + 4	3280 + 110	4.1	28	---	---
	1475	62°N	45	8,600	55 + 2	2480 + 40	3.2	---	---	---
715 PN	1476	47°N	55	16,200	126 + 5	4730 + 140	4.1	14	---	---
	1477	53°N	55	17,700	137 + 5	1333 + 77	3.0	---	---	---
	1478	59°N	55	17,200	147 + 7	2240 + 40	3.0	---	---	---
	1479	65°N	55	16,200	137 + 5	4840 + 100	2.9	14	---	---
718 EN	1480	32°S	63.4	5,500	7 + 1	462 + 49	1.6	4.7	---	---
	1481	25°S	65	9,300	105 + 3	3920 + 100	0.7	---	---	---
	1482	19°S	65.3	10,700	105 + 1	6310 + 210	2.5	---	---	---
	1483	13°S	65.5	14,800	125 + 3	9280 + 320	3.3	6.4	---	---
717 ES	1484	38°S	45	1,900	25 + 1	1047 + 28	1.6	---	---	---
	1485	43°S	45	1,620	15 + 1	830 + 21	1.1	---	---	---
	1486	49°S	45	2,100	21 + 1	1074 + 27	1.4	---	---	---
	1487	54°S	45	1,800	11 + 1	1020 + 26	1.2	---	---	---

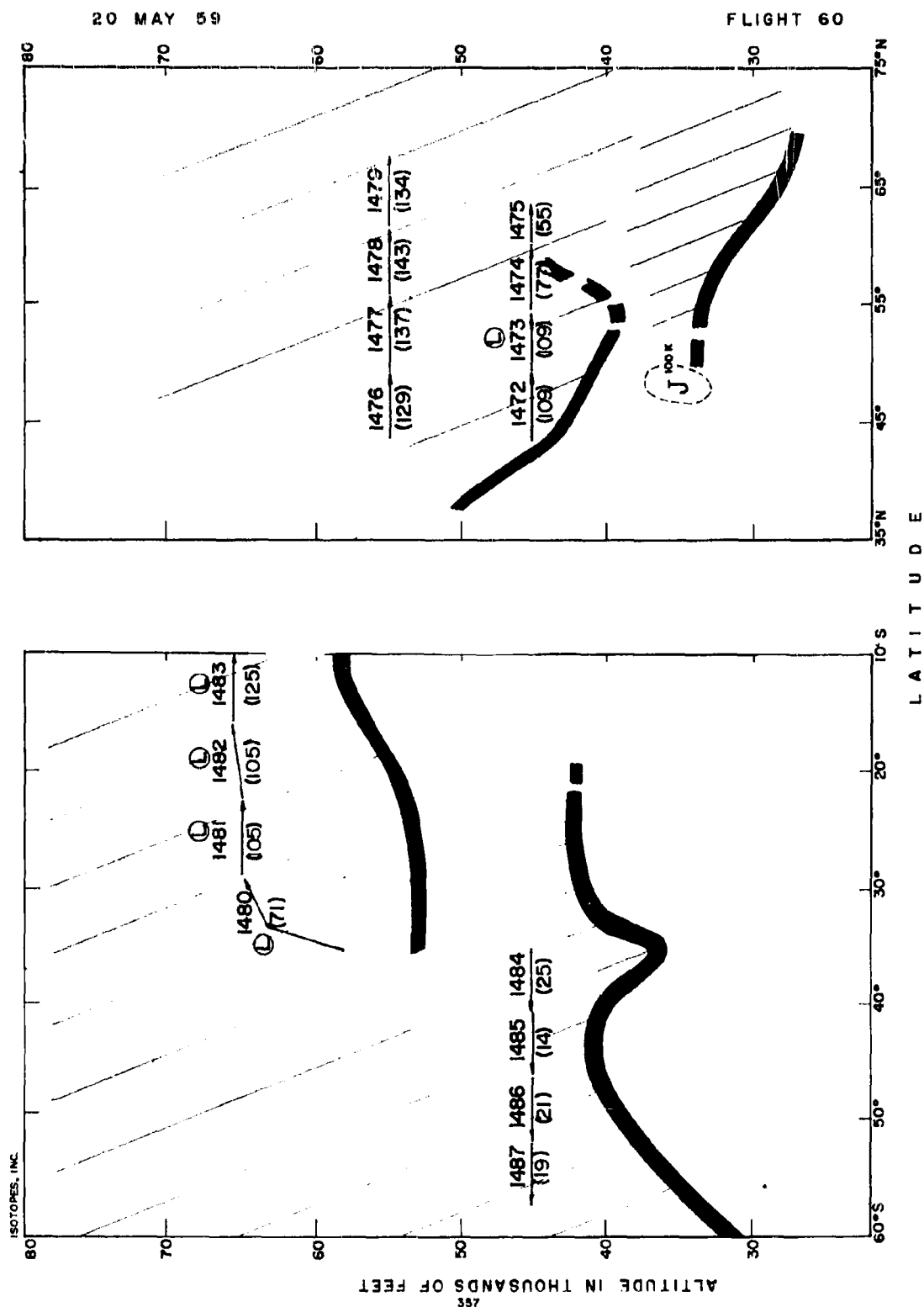


FIGURE 429 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
22 May 1959 Mission 61									
717	1486	38°S	60	5,300	63 ± 2	1642 ± 57	0.6	---	---
ES	1489	37°S	61	5,700	70 ± 3	1835 ± 42	0.9	---	---
718	1490	38°S	65	5,100	62 ± 1	483 ± 37	1.2	---	---
ES	1491	37°S	66	6,400	66 ± 1	386 ± 22	1.8	---	---

22 MAY 59

FLIGHT 61

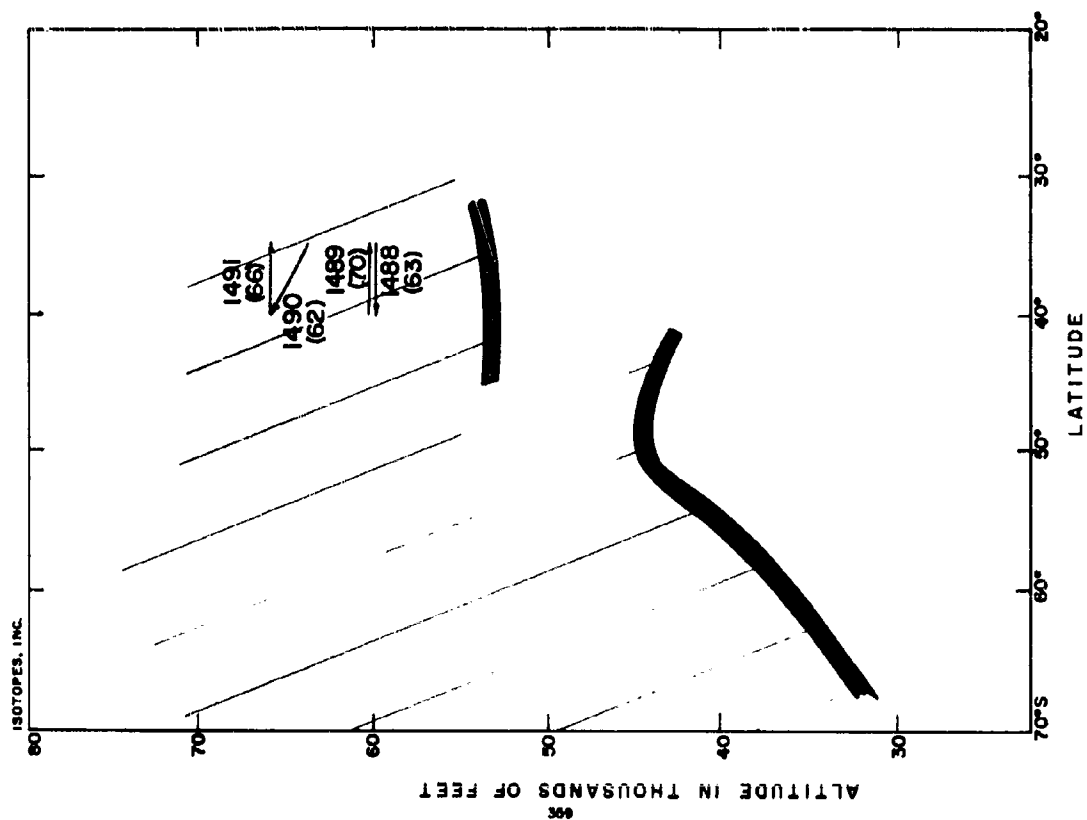


FIGURE 4.130 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
24 May 1959 Mission 61X									
714 PR	1492	41°N	60	14,800	138 ± 6	3240 ± 180	4.2	---	---
	1493	35°N	60	15,700	116 ± 5	3510 ± 170	5.7	---	---
	1494	29°N	60	16,200	135 ± 6	2780 ± 160	3.4	---	---
	1495	23°N	60	6,400	118 ± 7	4770 ± 250	4.1	---	≤ 0.2
715 PR	1496	41°N	64.2	19,800	207 ± 9	2680 ± 30	2.4	---	---
	1497	35°N	65.2	18,900	224 ± 3	1029 ± 59	2.7	---	---
	1498	29°N	65.9	21,000	234 ± 11	3890 ± 230	3.2	---	---
	1499	23°N	66.9	23,000	270 ± 1	5780 ± 50	---	10	---

24 MAY 59

FLIGHT 61X

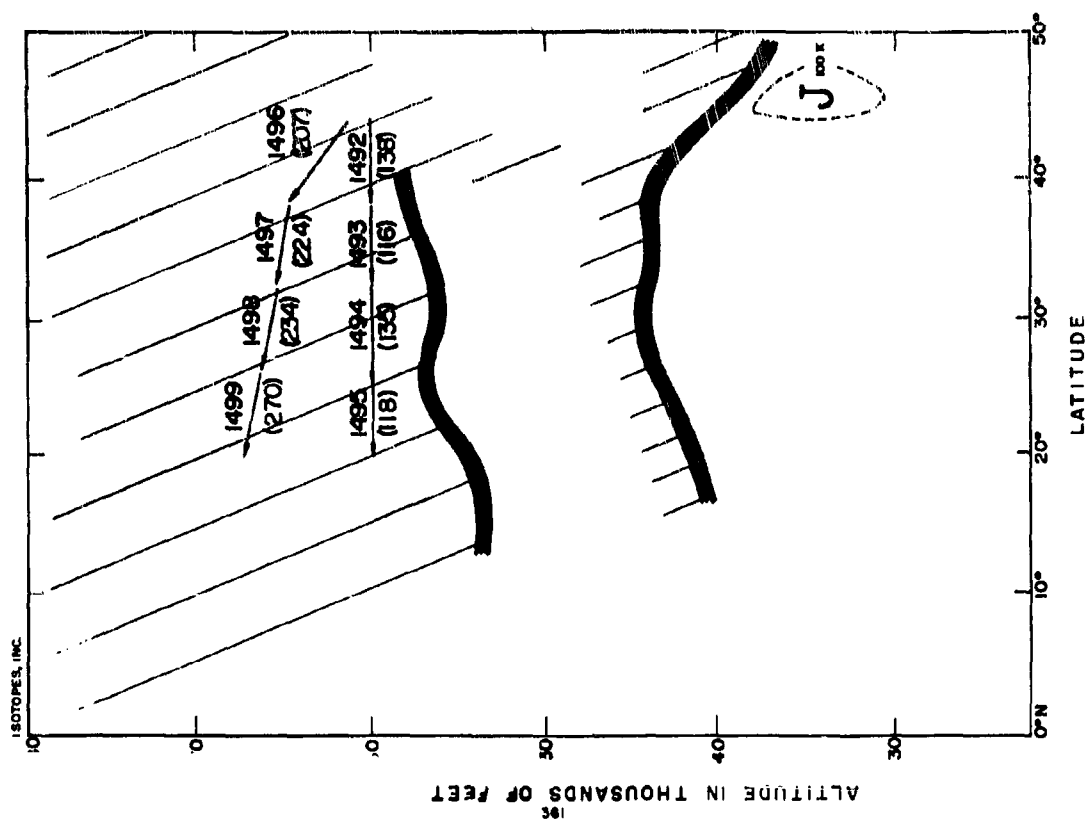


FIGURE 4131 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89
					Sr 90	W185 (Aug 58)			
25 May 1959 Mission 62									
714 RN	1500	19°N	60	10,700	104 ± 6	4580 ± 170	2.0	---	---
	1501	24°N	60	15,900	146 ± 5	3230 ± 180	2.5	---	---
	1502	30°N	60	15,100	156 ± 1	3230 ± 140	2.4	---	< 0.2
	1503	35°N	60	15,500	112 ± 5	3460 ± 140	3.1	---	---
716 RE	1508	13°N	60	5,200	63 ± 1	3930 ± 120	---	---	---
	1509	7°N	60	4,300	40 ± 1	2910 ± 80	2.1	---	---
	1510	1°N	60	3,700	37 ± 1	2200 ± 40	1.4	---	---
	1511	5°S	60	3,000	23 ± 1	---	1.7	14	---
717 ER	1504	29°S	60	3,300	48 ± 1	---	1.9	---	---
	1505	22°S	60	3,700	44 ± 1	2920 ± 40	2.2	9.6	---
	1506	15°S	60	4,500	39 ± 1	4000 ± 170	3.0	---	---
	1507	8°S	60	2,400	18 ± 1	---	4.8	---	---
718 ES	1512	38°S	51	610	8 ± 1	---	1.6	---	---
	1513	43°S	51	1,070	19 ± 1	---	---	---	---
	1514	49°S	51	2,700	47 ± 2	1526 ± 41	---	---	---
	1515	54°S	51	3,600	55 ± 1	691 ± 13	0.6	7.5	---

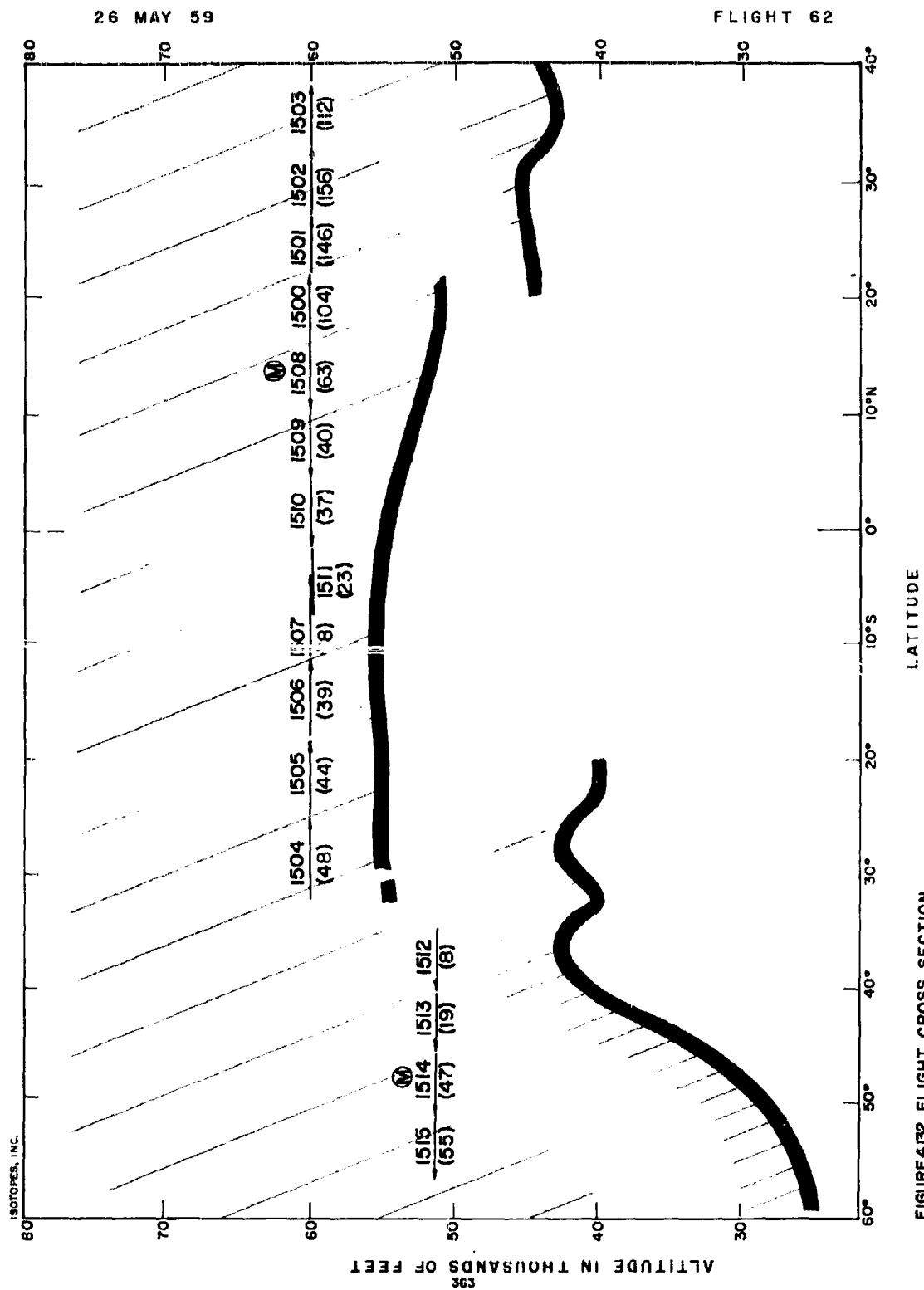


FIGURE 4.132 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/100g SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
29 May 1959 Mission 63									
718	1516	38°S	40	1,320	22 + 1	---	---	---	---
ES	1517	37°S	40	1,850	23 ± 1	932 + 13	---	8.6	---
716	1518	38°S	50	2,700	50 + 2	---	---	---	---
ES	1519	37°S	50	2,900	44 ± 1	1584 ± 24	0.8	---	---

29 MAY 59

FLIGHT 63

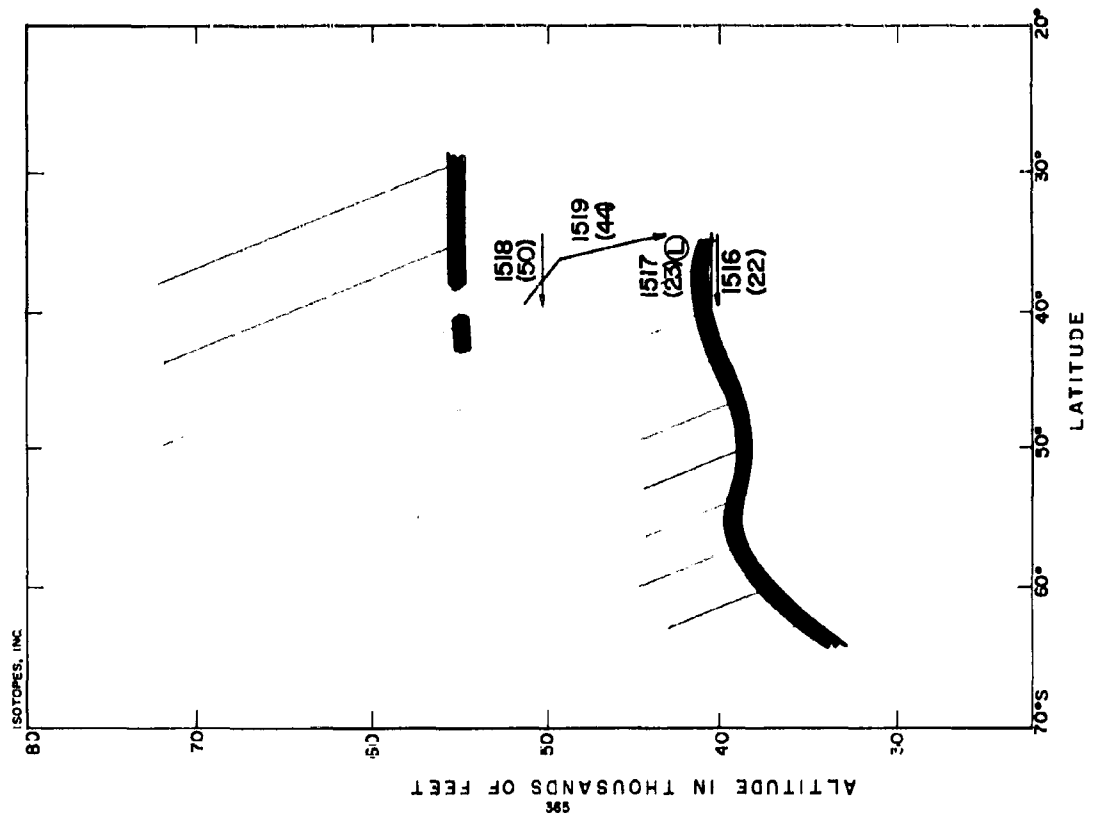


FIGURE 4.133 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
				Total Beta	Sr ⁹⁰	W185 (Aug 58)			
2 June 1959 Mission 64									
715 RN	1520	35°N	65.9	19,100	215 + 15	2450 + 80	2.8	---	---
	1521	30°N	67	24,000	205 + 1	12360 + 320	2.1	---	---
	1522	24°N	67.5	22,000	192 + 4	11690 + 340	2.2	---	---
	1523	19°N	68	21,000	200 + 6	5470 + 240	2.5	---	---
714 RS	1528	12°N	63	15,500	149 + 10	7550 + 560	2.1	---	---
	1529	6°N	63	10,100	108 + 6	7710 + 190	---	---	---
	1530	1°N	63	10,000	113 + 2	7540 + 210	---	---	---
	1531	5°S	63	8,100	66 + 2	7630 + 160	3.8	---	---
	1524	5°S	68.4	22,000	179 + 2	10820 + 210	2.2	12	---
	1525	1°N	69.8	24,000	191 + 6	4120 + 70	2.6	---	---
	1526	7°N	70.3	28,000	230 + 5	13860 + 390	2.0	13	---
	1532	7°N	70.3	30,000	275 + 8	15630 + 300	3.4	11	---
	1527	13°N	70.5	32,000	309 + 11	14170 + 770	---	11	---
	1533	13°N	70.5	35,000	332 + 12	10500 + 270	2.9	11	---
	716 EN	1538	33°S	63.3	4,800	66 + 2	---	2.1	---
1539		33°S	64.5	4,400	64 + 3	---	---	---	---
1540		35°S	65	4,100	75 + 2	---	---	---	---
1541		35°S	65	4,600	57 + 2	226 + 8	---	9.8	---
718 ES	1534	38°S	65	5,400	64 + 1	593 + 62	---	---	---
	1535	43°S	65	6,300	60 + 2	608 + 29	---	---	---
	1536	49°S	65.5	5,700	80 + 2	≤ 502	1.3	---	---
	1537	54°S	66.7	4,600	64 + 1	1611 + 58	---	10	---

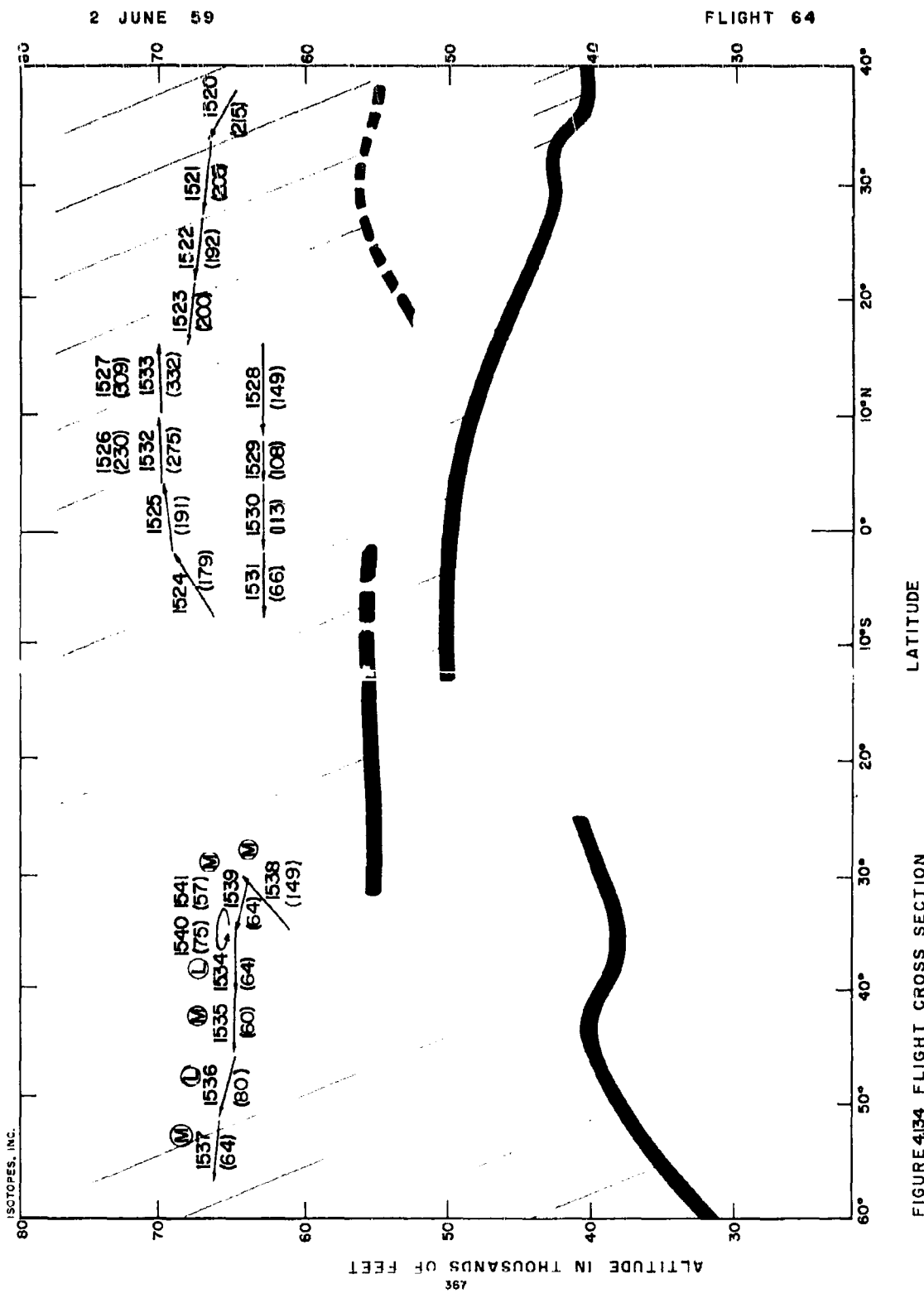


FIGURE 4.134 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF											
AC No.	HASP No.	Latitude	Altitude	Total Beta	Sr90		W185 (Aug 58)	Sr89 Sr90	Ce144 Sr90	Ba140 Sr89	
5 June 1959 Mission 65											
715 RN	1546	19°N	60	8,800	72 ± 2		3410 ± 60	4.5	---	---	
	1547	24°N	60	10,600	86 ± 1		3870 ± 170	2.8	---	---	
	1548	30°N	60	12,300	109 ± 7		4460 ± 150	3.3	---	< 0.2	
	1549	35°N	60	14,300	115 ± 1		4220 ± 190	2.4	---	---	
714 RS	1553	13°N	59.7	8,700	70 ± 1		3490 ± 140	2.3	---	---	
	1550	7°N	60	7,100	52 ± 1		3030 ± 210	1.7	---	---	
	1551	1°N	60	4,600	37 ± 2		2890 ± 70	1.9	---	---	
	1554	1°N	60	5,200	35 ± 2		2880 ± 30	1.5	---	---	
	1552	5°S	60	3,100	31 ± 1		2480 ± 110	2.3	---	---	
	1555	6°S	60	5,200	30 ± 1		---	---	---	---	
	1556	4°S	55	1,030	4 ± 1		---	---	---	---	
718 ES	1542	38°S	60	4,900	68 ± 2		---	---	---	---	
	1543	37°S	60	4,700	64 ± 2		743 ± 26	---	8.6	---	
716 ES	1544	38°S	64.6	4,700	67 ± 1		411 ± 30	---	---	---	
	1545	37°S	69.7	5,500	79 ± 2		221 ± 41	---	---	---	

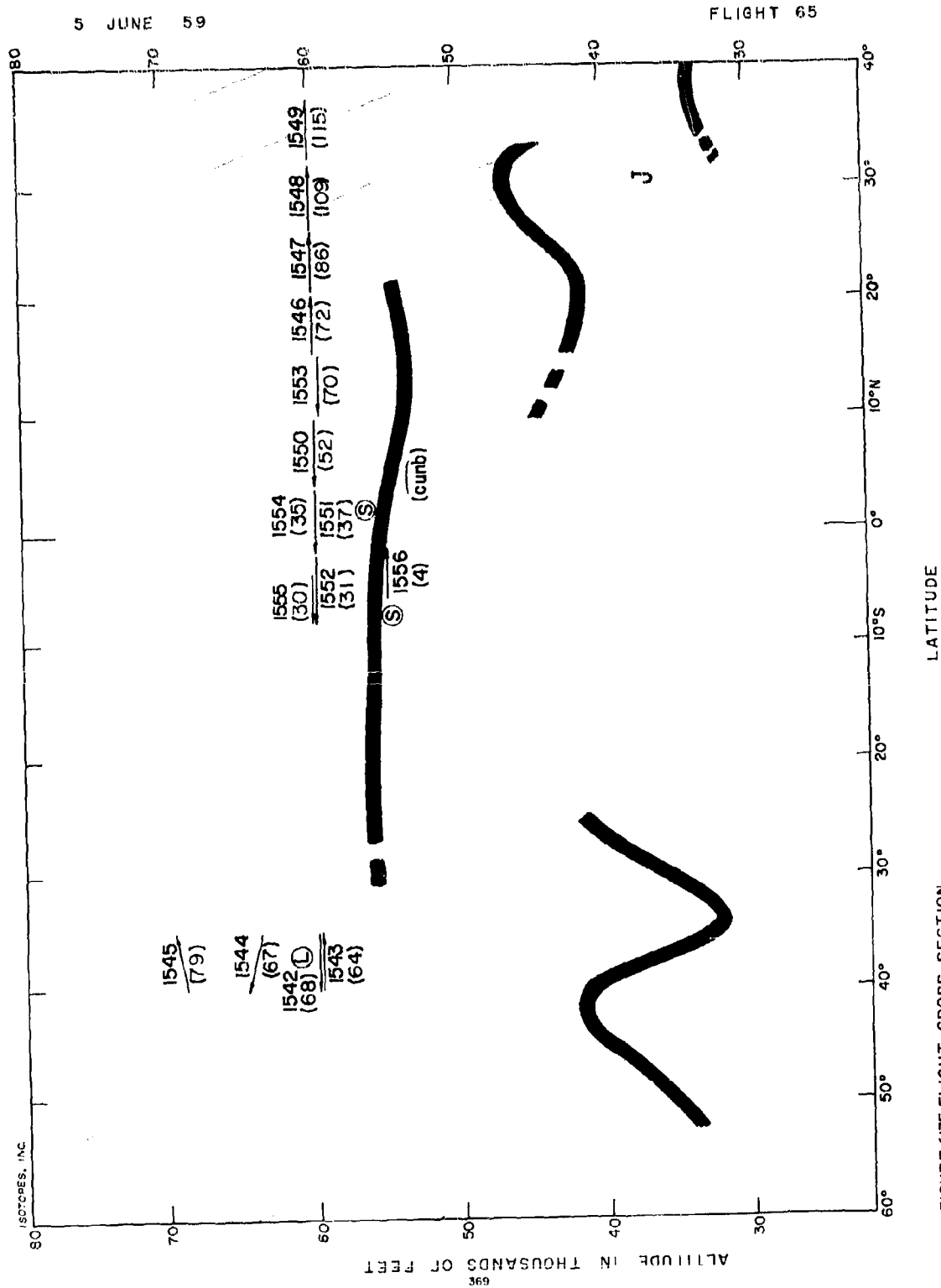


Table 4.3 (continued)

		dpm/1000 SCF								
AC No.	HASP No.	Latitude	Altitude	Total Beta	Sr90	W185 (Aug 58)	Sr89 Sr90	Ce144 Sr90	Ba140 Sr89	
9 June 1959 Mission 66										
715 RN	1565	19°N	55	5,700	50 ± 1	1723 ± 31	3.0	---	---	
	1566	24°N	55	3,700	28 ± 2	1208 ± 21	2.8	---	---	
	1567	29°N	55	5,500	53 ± 1	2130 ± 30	2.6	---	---	
	1568	26°N	55	4,200	55 ± 3	1755 ± 25	3.1	---	≤ 0.2	
714 RS	1569	13°N	55	6,300	64 ± 4	1948 ± 39	2.9	---	---	
	1570	7°N	55	4,800	26 ± 8	1352 ± 53	3.6	---	---	
	1571	1°N	55	900	6 ± 1	---	---	---	---	
	1572	5°S	55	680	6 ± 1	---	---	---	---	
716 EN	1557	32°S	45	790	9 ± 1	531 ± 6	---	---	---	
	1558	26°S	45	710	9 ± 1	531 ± 6	---	---	---	
	1559	20°S	45	180	0.7 ± 0.1	---	---	---	---	
	1560	14°S	45	140	0.7 ± 0.1	---	---	---	---	
718 ES	1561	37°S	45	690	5 ± 1	---	3.8	---	---	
	1562	43°S	45	670	5 ± 1	---	3.8	---	---	
	1563	48°S	45	1,450	15 ± 1	934 ± 28	2.3	---	---	
	1564	53°S	45	1,680	22 ± 1	902 ± 18	2.1	---	---	

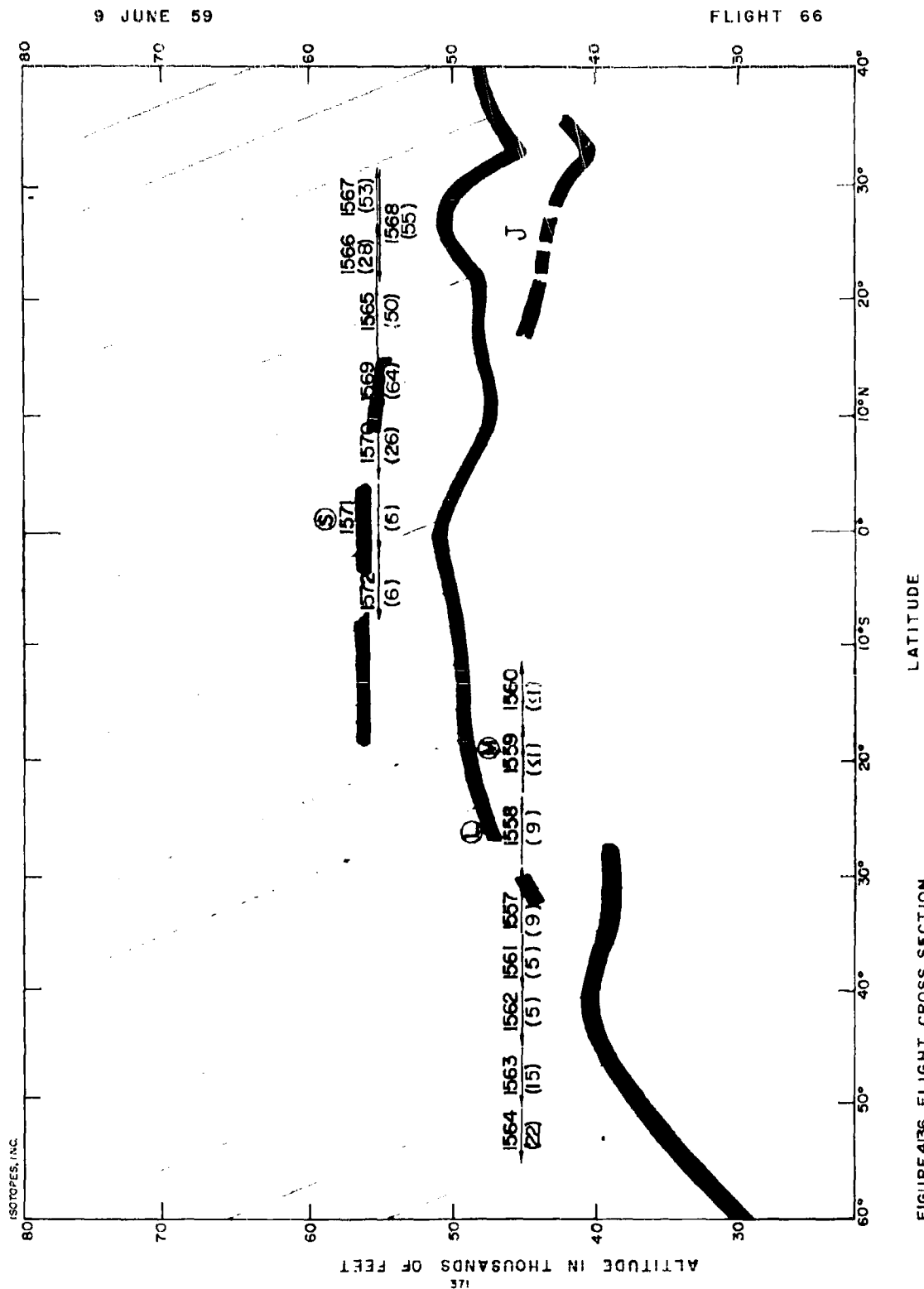


FIGURE 4/36 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
10 June 1959 Mission of Opportunity										
716	1635	34°S	45	470	9 + 1	---	---	---	---	---
EO	1636	33°S	45	1,330	9 + 1	---	---	---	---	---
	1637	35°S	45	970	9 + 1	---	---	---	---	---
	1638	35°S	45	670	9 + 1	---	---	---	---	---

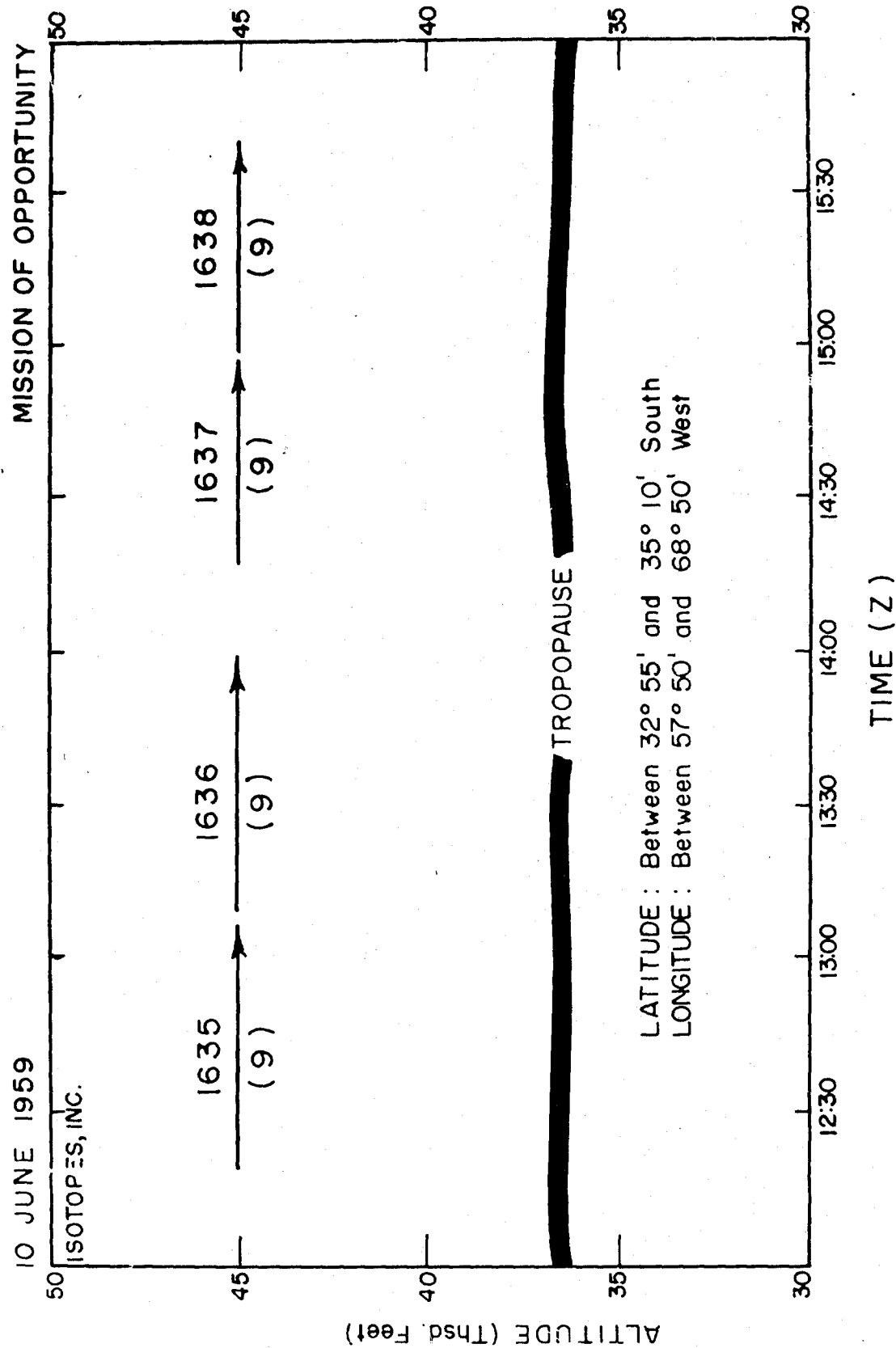


FIGURE 4.137 REPRESENTATION OF MISSION OF OPPORTUNITY

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
12 June 1959 Mission 67									
705 RN	1573	19°N	63.1	20,000	161 ± 15	5490 + 780	1.9	---	---
	1574	24°N	64	17,000	152 ± 9	≤ 152	2.8	---	---
	1575	30°N	64.3	19,400	179 ± 4	4630 + 90	2.3	---	---
	1581	30°N	64.3	19,700	209 ± 8	4380 + 200	2.0	---	---
	1576	35°N	64.6	18,900	216 ± 9	3400 ± 160	1.8	---	0.3
	1582	35°N	64.6	20,000	236 ± 9	3850 ± 170	1.8	---	0.3
	1583	36°N	60	19,000	186 ± 1	3500 ± 60	1.7	---	---
	1584	31°N	60	19,700	245 ± 2	9330 ± 380	1.7	---	---
	1585	27°N	60	14,600	143 ± 1	4060 ± 190	1.9	---	---
	1586	23°N	60	12,300	134 ± 4	4800 ± 220	1.6	---	---
714 RS	1577	13°N	54.5	16,400	165 ± 1	8550 + 290	1.7	---	---
	1578	7°N	65	17,000	152 ± 2	10930 + 250	1.9	---	---
	1579	1°N	65	20,000	139 ± 4	10210 + 80	---	---	---
	1580	5°S	65	13,400	205 ± 1	14750 + 500	1.2	---	---
716 ES	1589	38°S	50	270	7 ± 1	---	---	---	---
	1590	37°S	50.5	1,510	7 ± 1	---	---	---	---

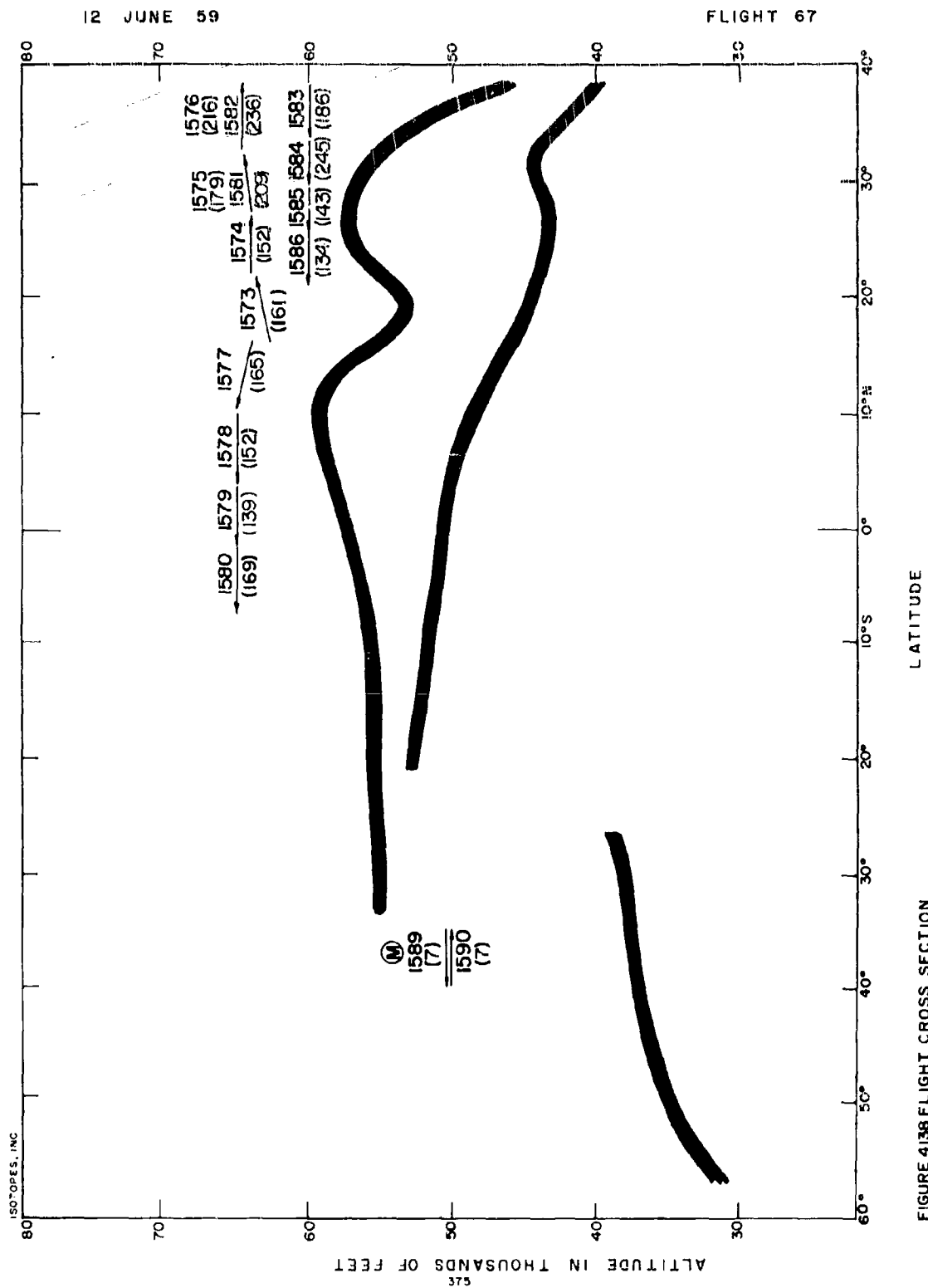


FIGURE 4.138 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr89 Sr90	Ce144 Sr90	Ba140 Sr89
					Sr90	W185 (Aug 58)				
14 June 1959 Mission 68X										
714 RP	1591	23°N	55	7,300	72 ± 1	2280 ± 40		2.2	---	---
	1592	29°N	55	9,400	71 ± 3	2640 ± 120		1.9	---	---
	1593	35°N	55	10,900	105 ± 1	3890 ± 150		---	---	---
	1594	41°N	55	13,600	136 ± 3	4180 ± 140		1.9	---	≤ 0.2
705 RP	1599	23°N	60	16,600	143 ± 1	3660 ± 60		1.5	---	---
	1603	23°N	60	15,800	136 ± 5	4860 ± 140		1.8	---	---
	1600	29°N	60	17,900	167 ± 6	3060 ± 100		1.9	---	---
	1604	29°N	60	14,500	149 ± 6	3890 ± 120		1.5	---	---
	1601	35°N	60	18,900	147 ± 5	3230 ± 160		2.5	12	---
	1605	35°N	60	21,000	192 ± 6	4270 ± 130		1.6	---	---
	1602	41°N	60	14,500	128 ± 4	4810 ± 110		2.3	---	---
	1606	41°N	60	21,000	146 ± 5	4000 ± 130		2.3	---	---
715 RP	1607	23°N	64.7	16,300	177 ± 4	5470 ± 90		1.7	---	---
	1611	23°N	64.7	21,000	215 ± 9	5530 ± 200		1.8	---	---
	1608	29°N	65.2	19,200	186 ± 7	5000 ± 170		1.6	---	---
	1612	29°N	65.2	23,000	213 ± 8	4610 ± 200		2.1	---	---
	1609	35°N	65.5	22,000	161 ± 9	3930 ± 170		7.3	---	---
	1613	35°N	65.5	19,800	200 ± 6	5170 ± 250		3.7	---	---
	1610	41°N	66	22,000	243 ± 10	3840 ± 70		2.2	---	---
	1614	41°N	66	22,000	228 ± 7	3910 ± 50		---	---	---

14 JUNE 59

FLIGHT 68X

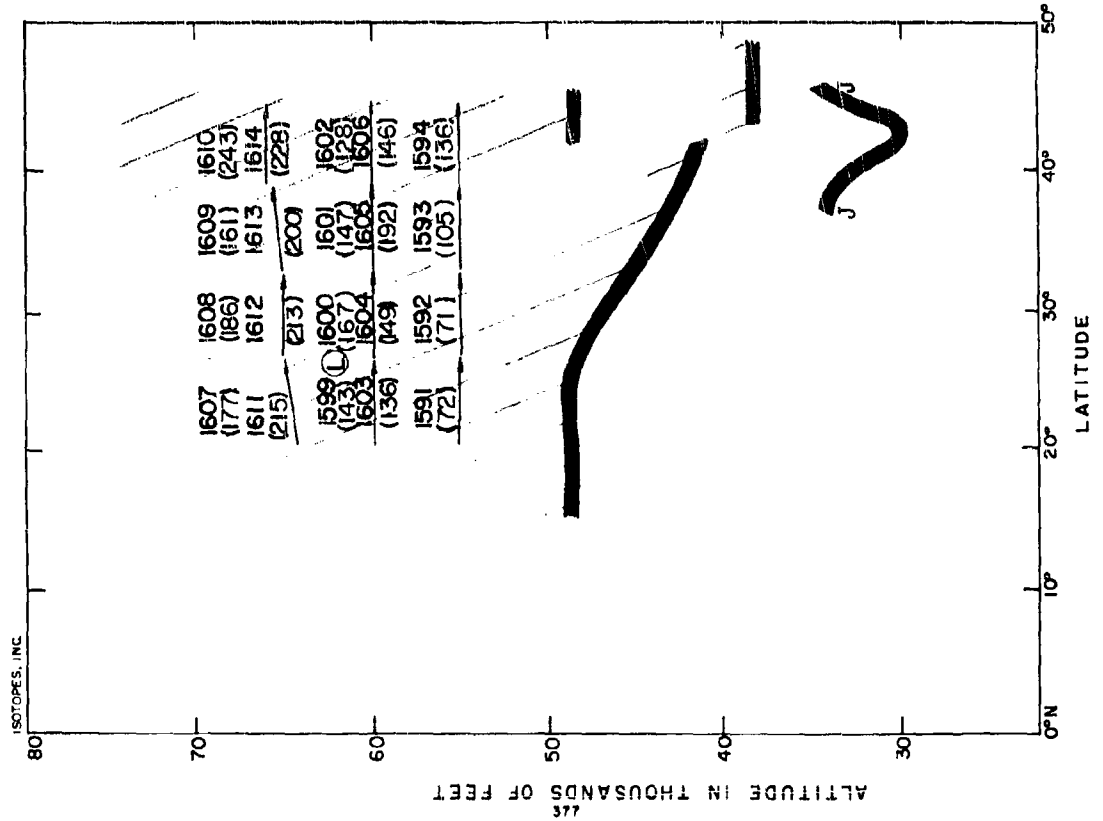


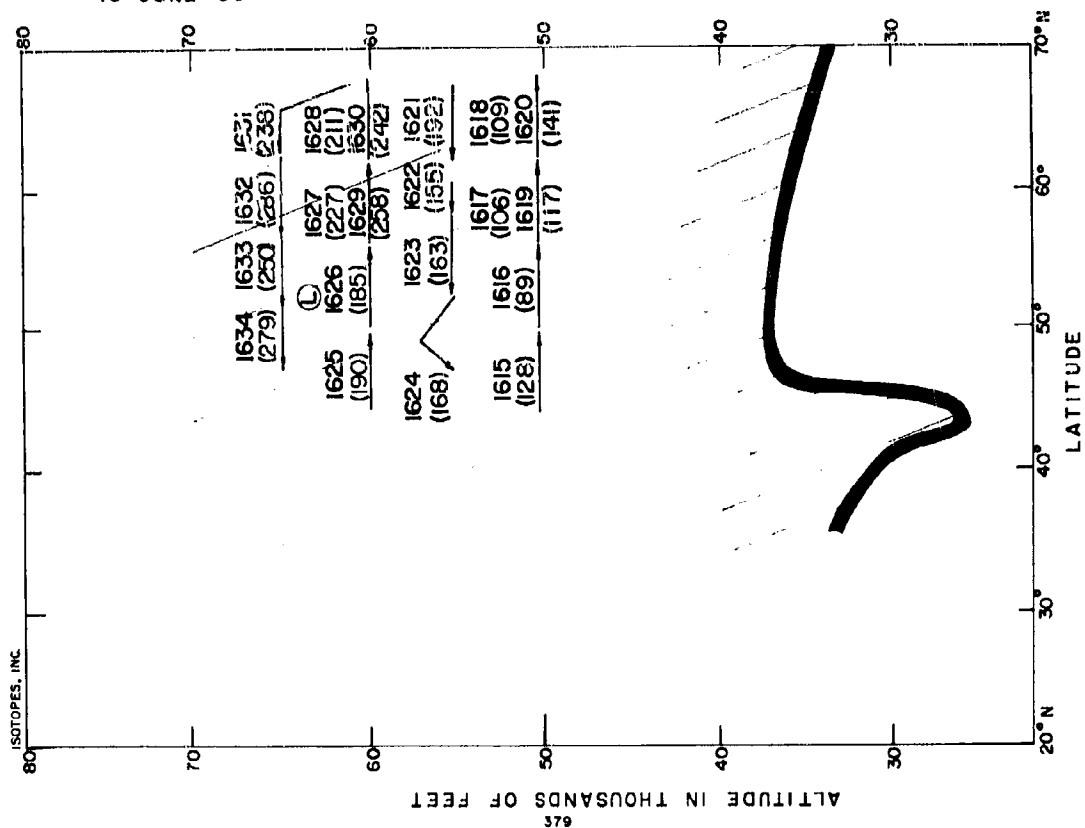
FIGURE 4139 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF					
				Total Beta	Sr ⁹⁰	W185 (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
16 June 1959 Mission 68									
705	1615	47°N	50	12,100	128 ± 6	3900 ± 120	1.9	---	---
PN	1616	53°N	50	11,000	89 ± 5	3100 ± 90	1.0	---	---
	1617	59°N	50	12,800	106 ± 4	3720 ± 500	2.1	---	---
	1619	59°N	50	14,100	117 ± 4	3940 ± 110	1.8	---	---
	1618	65°N	50	12,900	109 ± 3	5300 ± 40	2.4	14	---
	1620	65°N	50	17,200	141 ± 7	4560 ± 110	2.4	---	---
	1621	65°N	55	15,300	192 ± 2	3960 ± 140	0.9	9.1	---
	1622	59°N	55	16,000	155 ± 3	4270 ± 60	2.3	---	---
	1623	55°N	55	15,100	163 ± 5	4590 ± 90	2.1	---	---
	1624	50°N	55.6	15,900	168 ± 1	4460 ± 150	---	---	---
714	1625	47°N	60	14,200	190 ± 3	4950 ± 50	1.1	---	---
PN	1626	53°N	60	17,500	185 ± 3	4680 ± 50	1.7	---	---
	1627	59°N	60	20,000	227 ± 6	4150 ± 50	1.6	---	---
	1629	59°N	60	19,200	258 ± 7	2480 ± 60	1.7	---	---
	1628	65°N	60	19,900	211 ± 6	3030 ± 70	2.2	10	---
	1630	65°N	60	17,800	242 ± 7	2310 ± 30	1.3	10	---
	1631	65°N	64.2	17,600	238 ± 9	877 ± 37	1.1	9.7	---
	1632	60°N	65	24,000	286 ± 40	2610 ± 50	1.0	---	---
	1633	54°N	65	19,800	250 ± 10	3010 ± 90	1.5	---	---
	1634	49°N	65	22,000	279 ± 10	1273 ± 50	1.2	---	---
717	1655	10°N	65.5	17,100	162 ± 6	8700 ± 140	---	11	---
RE	1656	3°S	67	15,800	172 ± 6	10060 ± 300	1.2	10	---
	1657	17°S	68.5	15,600	132 ± 8	7710 ± 180	3.2	12	---
	1658	28°S	69.8	8,200	122 ± 1	4010 ± 80	---	8.5	---
718	1669	35°S	50	640	7 ± 1	292 ± 20	---	---	---
EO	1670	35°S	55	1,070	12 ± 1	826 ± 36	---	---	---
	1671	35°S	65	6,400	87 ± 1	---	---	---	---
	1672	35°S	68.3	6,700	90 ± 3	7310 ± 260	---	---	---
716	1659	37°S	55	2,300	18 ± 1	1634 ± 261	---	---	---
ES	1660	43°S	55	3,000	35 ± 1	1617 ± 89	---	---	---
	1661	48°S	55	3,700	52 ± 2	2630 ± 60	1.7	---	---
	1662	46°S	55	4,000	61 ± 3	2580 ± 30	---	---	---

16 JUNE 59

FLIGHT 68



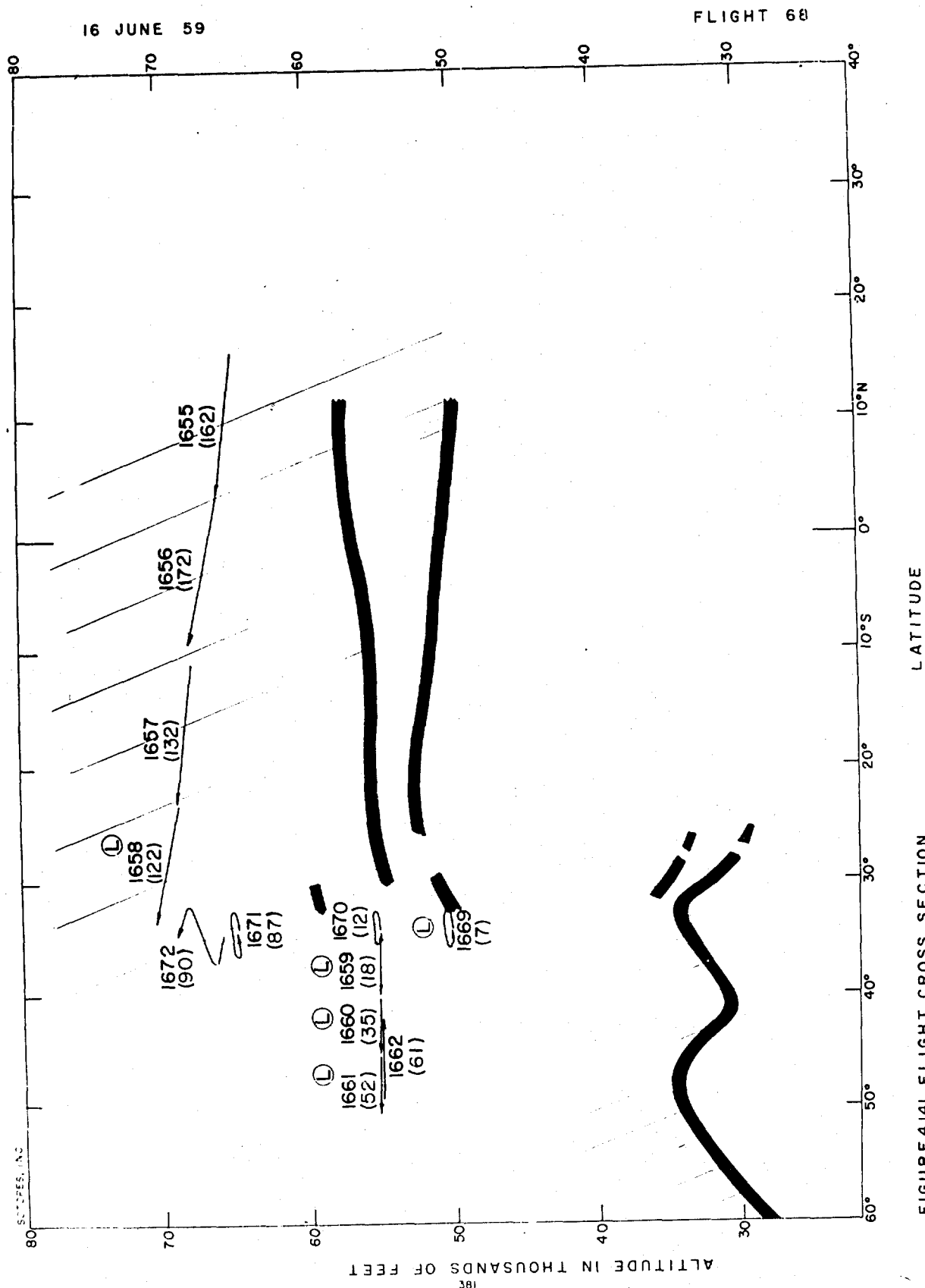


FIGURE 4.141 FLIGHT CROSS SECTION

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Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)				
29 June 1959 Mission 69										
705 PO	1639	43°N	50	13,300	106 ± 2	4010 ± 140		1.1	---	---
	1640	44°N	50	10,800	110 ± 3	3540 ± 30		2.1	---	---
	1641	44°N	50	12,400	102 ± 4	3600 ± 30		---	---	---
	1642	43°N	50	11,800	104 ± 3	3620 ± 130		2.0	---	---
	1643	43°N	50	12,100	108 ± 3	3670 ± 40		2.1	---	---
	1644	43°N	50	11,700	111 ± 4	3740 ± 170		1.3	---	---
715 PO	1645	43°N	65	21,000	235 ± 10	2770 ± 80		---	---	---
	1646	43°N	65	18,800	240 ± 6	2420 ± 40		0.6	---	---
	1647	43°N	65	23,000	237 ± 9	2830 ± 60		1.7	---	---
	1648	44°N	65	23,000	250 ± 8	2900 ± 60		1.9	---	---
	1649	44°N	65	14,600	245 ± 9	1530 ± 46		0.8	---	---
	1650	44°N	65	25,000	260 ± 12	3080 ± 50		1.3	---	---
718 EP	1651	26°S	63.7	6,100	94 ± 1	2020 ± 50		0.7	8.3	---
	1652	14°S	65.8	15,900	182 ± 6	8590 ± 210		1.5	8.4	---
	1653	3°S	67	26,000	292 ± 3	11280 ± 240		1.8	9.4	
	1654	11°N	68.8	33,000	368 ± 7	5100 ± 60		1.5	8.4	< 0.3

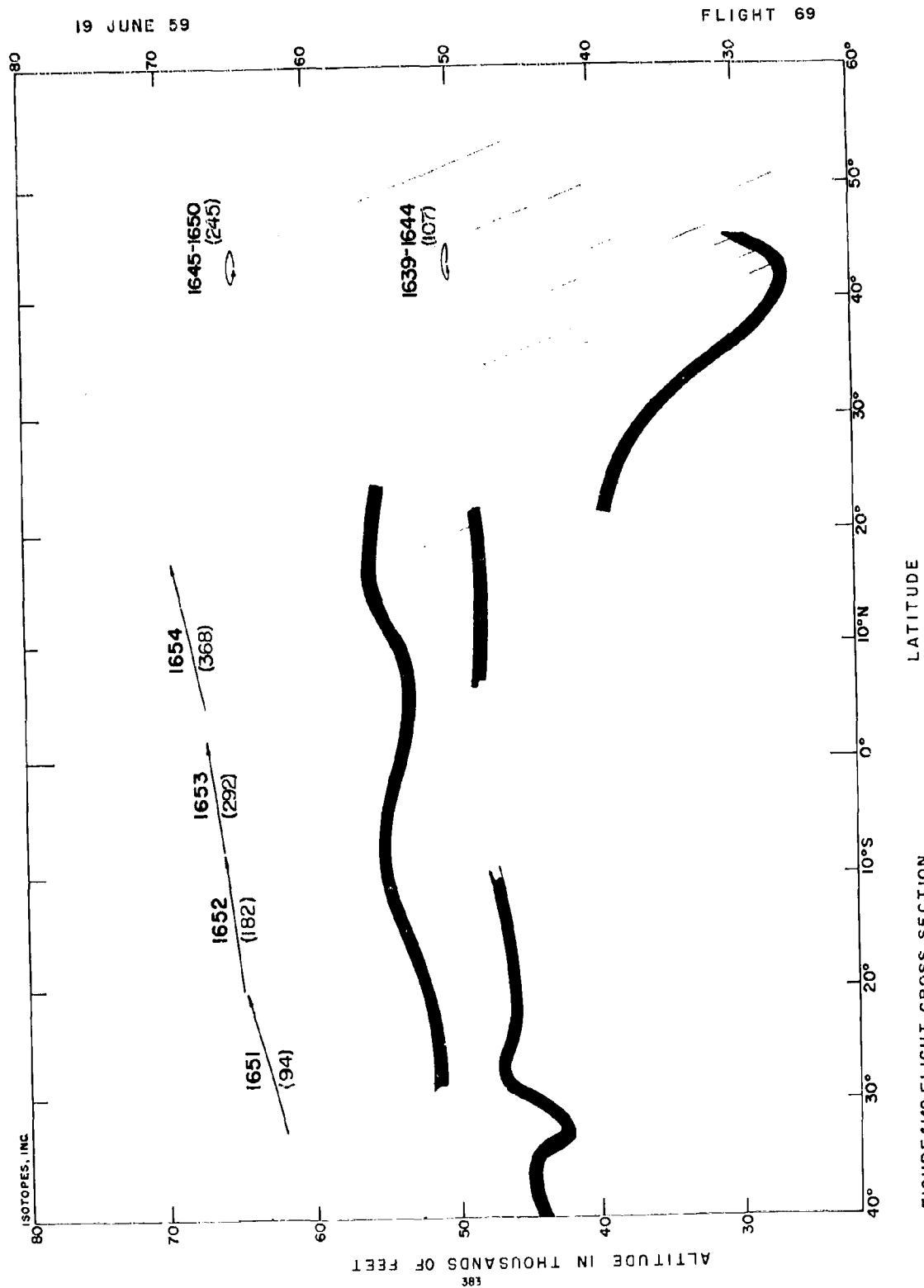


FIGURE 4142 FLIGHT CROSS SECTION

Table 4. 3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
21 June 1959 Mission 69X									
705	1673	41°N	60	15,900	186 ± 7	3600 ± 40	1.1	---	---
PR	1677	41°N	60	17,900	201 ± 6	4150 ± 30	---	---	---
	1674	34°N	60	13,600	152 ± 7	4150 ± 60	1.0	---	---
	1678	34°N	60	10,700	186 ± 6	5100 ± 200	0.3	---	---
	1675	28°N	60	9,900	106 ± 2	3490 ± 60	0.1	---	---
	1679	28°N	60	10,800	111 ± 1	4240 ± 60	1.4	---	---
	1676	23°N	60	10,900	118 ± 6	3880 ± 190	1.6	---	---
	1680	23°N	60	13,900	139 ± 5	4500 ± 60	1.8	---	---
715	1681	41°N	63.8	18,400	223 ± 7	3060 ± 60	---	---	---
PR	1685	41°N	63.8	19,600	250 ± 13	3290 ± 50	0.9	---	---
	1682	35°N	65.1	20,000	220 ± 10	3790 ± 90	1.4	---	---
	1686	35°N	65.1	20,000	215 ± 3	3660 ± 50	---	---	---
	1683	29°N	66	19,100	219 ± 6	3090 ± 90	0.2	---	---
	1687	29°N	66	21,000	230 ± 3	---	1.0	---	---
	1684	23°N	66.5	18,500	219 ± 8	4910 ± 70	0.3	---	---
	1688	23°N	66.5	21,000	267 ± 9	5300 ± 60	1.4	---	---

21 JUNE 59

FLIGHT 69X

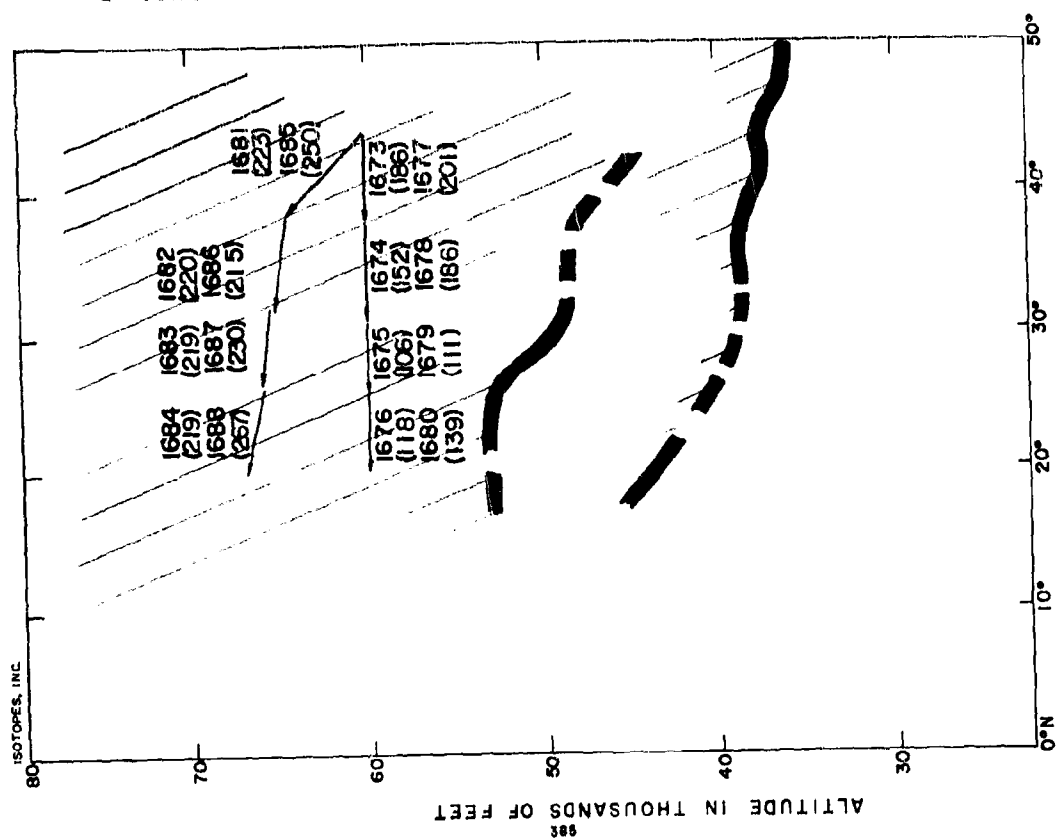


FIGURE 4.143 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr89/Sr90	Ce144/Sr90	Ba140/Sr89
					Sr90	W185 (Aug 58)			
23 June 1959 Mission 70									
705 RN	1689	23°N	63	15,800	208 ± 4	4170 ± 130	---	---	---
	1690	27°N	63	20,000	199 ± 2	4450 ± 200	1.7	---	---
	1691	32°N	63	17,400	198 ± 11	4330 ± 110	0.9	---	---
	1692	36°N	63	19,600	186 ± 1	4590 ± 250	1.7	---	---
	1695	35°N	64.6	19,300	192 ± 9	2010 ± 30	1.7	---	---
	1696	30°N	65.5	19,400	216 ± 11	3890 ± 60	1.4	---	---
	1697	24°N	66.5	20,000	219 ± 12	3890 ± 290	1.7	---	---
	1693	24°N	66.5	18,400	203 ± 6	3810 ± 160	1.8	---	---
	1698	19°N	67.5	21,000	216 ± 2	7180 ± 420	2.4	---	---
	1694	19°N	67.5	25,000	254 ± 10	7630 ± 300	1.8	---	---
715 RS	1700	5°S	67.4	19,800	221 ± 2	10970 ± 370	1.3	---	---
	1701	1°N	68.3	28,000	298 ± 4	8910 ± 360	1.3	---	---
	1702	7°N	68.7	31,000	348 ± 5	5920 ± 250	1.8	9.3	---
	1703	13°N	69.5	27,000	296 ± 12	9260 ± 330	1.4	---	---
	1699	4°N	66.5	19,500	193 ± 1	7550 ± 90	1.2	---	≤ 0.3
717 EN	1721	32°S	63.8	11,200	151 ± 3	1767 ± 90	---	---	---
	1722	25°S	64.4	12,800	146 ± 1	6750 ± 320	---	---	---
	1723	19°S	65.7	13,400	175 ± 2	8780 ± 340	---	---	---
	1724	13°S	66.9	16,500	185 ± 1	8890 ± 370	---	---	---
716 ES	1725	38°S	65.3	5,000	81 ± 2	---	---	---	---
	1726	43°S	66.5	6,700	94 ± 2	577 ± 55	---	---	---
	1727	49°S	67.2	5,600	74 ± 1	---	---	---	---
	1728	54°S	67.7	4,400	71 ± 2	279 ± 93	---	---	---

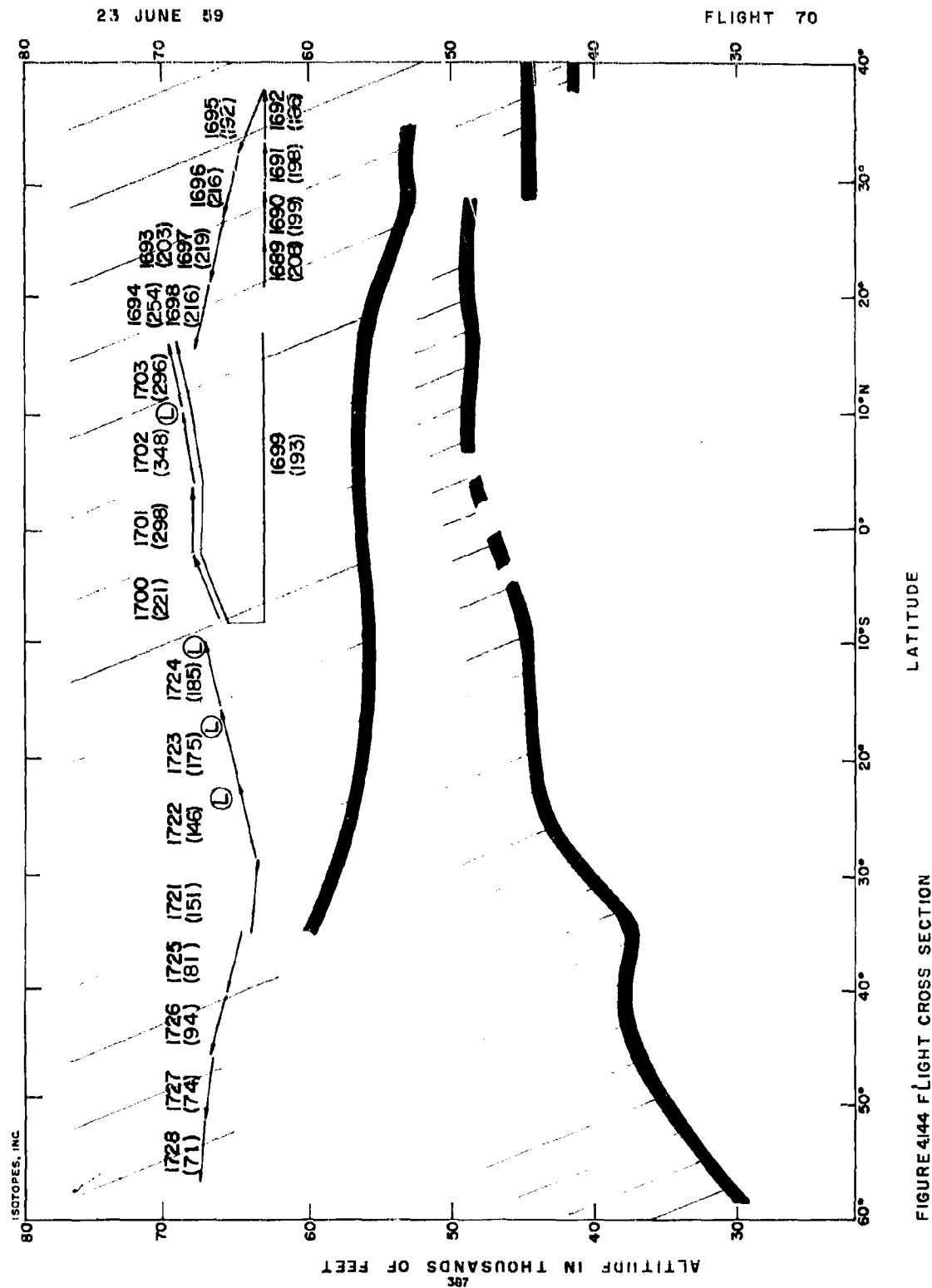


Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr89 Sr90	Ce144 Sr90	Ba140 Sr89
					Sr90	W185 (Aug 58)			
26 June 1959 Mission 71									
705 RN	1704	19°N	64.2	16,600	168 ± 3	5000 ± 100	1.8	---	---
	1705	24°N	64.7	18,400	167 ± 8	3530 ± 190	1.8	---	---
	1706	30°N	65	17,900	216 ± 6	2500 ± 90	1.8	---	---
	1708	30°N	65	22,000	233 ± 5	2960 ± 90	1.2	---	---
	1707	35°N	65.2	19,200	192 ± 8	1891 ± 140	1.7	---	---
	1709	35°N	65.2	16,900	208 ± 2	2060 ± 50	1.1	---	---
	1710	36°N	60.6	21,000	209 ± 8	4700 ± 70	1.1	---	---
	1711	32°N	60	15,500	154 ± 6	5460 ± 70	2.5	---	---
	1712	27°N	60	14,100	137 ± 1	5560 ± 80	2.6	---	---
	1713	23°N	60	13,100	134 ± 7	3730 ± 50	2.8	---	---
715 RS	1714	13°N	65	17,400	157 ± 3	6970 ± 290	1.5	12	---
	1715	7°N	65	15,000	128 ± 2	8770 ± 120	2.3	---	---
	1716	1°N	65	13,500	128 ± 3	8140 ± 70	1.8	---	---
	1718	1°N	65	15,900	125 ± 3	9680 ± 350	2.3	---	---
	1717	5°S	65	12,100	108 ± 2	9360 ± 330	2.1	---	---
	1719	5°S	65	13,200	119 ± 2	9610 ± 310	1.7	---	---
	1720	5°S	60	3,200	28 ± 1	2430 ± 40	2.6	---	---
717 ES	1729	38°S	40	1,110	15 ± 1	---	---	---	---
	1730	37°S	40	1,070	15 ± 1	---	---	---	---
716 ES	1731	38°S	50	1,580	15 ± 1	---	---	---	---
	1732	37°S	50	1,850	28 ± 1	1490 ± 43	---	---	---

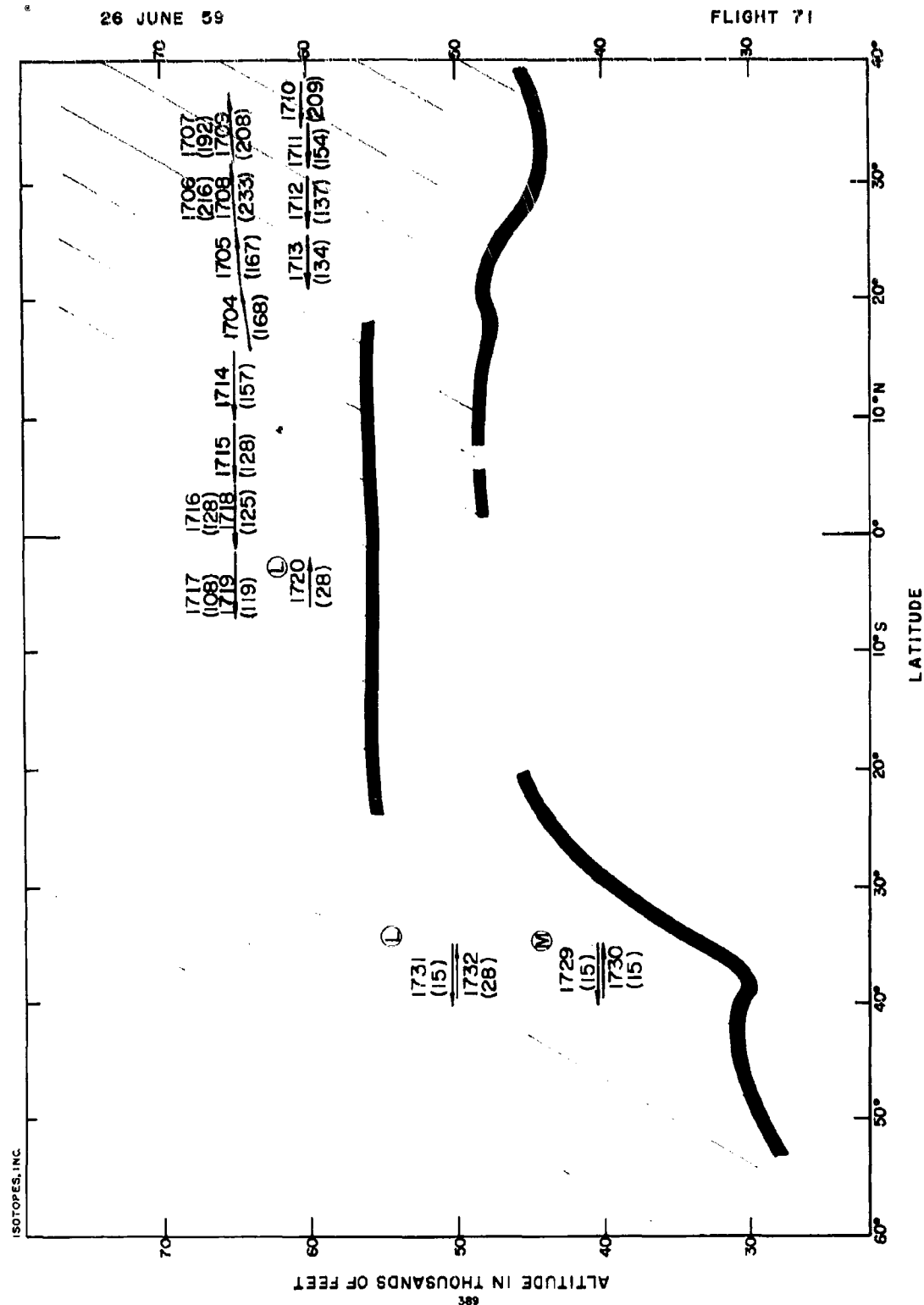


FIGURE 4.145 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89
					Sr 90	w185 (Aug 58)				
1 July 1959 Mission 72										
705 RN	1733	19°N	60	10,800	103 ± 1	4040 ± 70		1.0	---	---
	1734	24°N	60	13,400	107 ± 1	4120 ± 200		---	---	---
	1735	30°N	60	14,100	109 ± 2	3540 ± 50		0.4	---	---
	1737	30°N	60	13,300	145 ± 7	3020 ± 80		1.9	---	---
	1736	35°N	60	13,900	135 ± 3	3880 ± 60		0.9	---	---
	1738	35°N	60	16,100	167 ± 2	4380 ± 90		---	---	---
	1739	36°N	64.9	17,500	223 ± 6	2720 ± 90		---	---	---
	1740	32°N	65	18,800	248 ± 2	3040 ± 80		---	---	---
715 RS	1741	28°N	65	22,000	254 ± 10	3740 ± 50		---	---	---
	1742	23°N	65	18,300	212 ± 11	5120 ± 80		1.2	---	---
	1743	13°N	60	8,400	73 ± 1	3080 ± 50		1.6	---	---
	1744	7°N	60	6,100	66 ± 2	3020 ± 50		---	---	---
	1745	1°N	60	3,600	31 ± 2	2700 ± 40		7.7	---	---
	1747	1°N	60	4,700	39 ± 1	3000 ± 50		1.9	---	---
	1746	5°S	60	3,600	31 ± 2	3000 ± 40		0.3	---	---
	1748	6°S	60	4,500	42 ± 4	3460 ± 120		3.8	---	---
	1749	5°S	64.7	16,000	138 ± 2	11740 ± 360		2.5	---	---
	1750	1°N	65	19,200	193 ± 1	12700 ± 330		---	---	---
	1751	7°N	65.2	18,100	183 ± 2	11120 ± 350		1.1	---	---
	1752	13°N	64.9	17,200	184 ± 1	7600 ± 300		1.3	---	< 1.2

1 JULY 59

FLIGHT 72

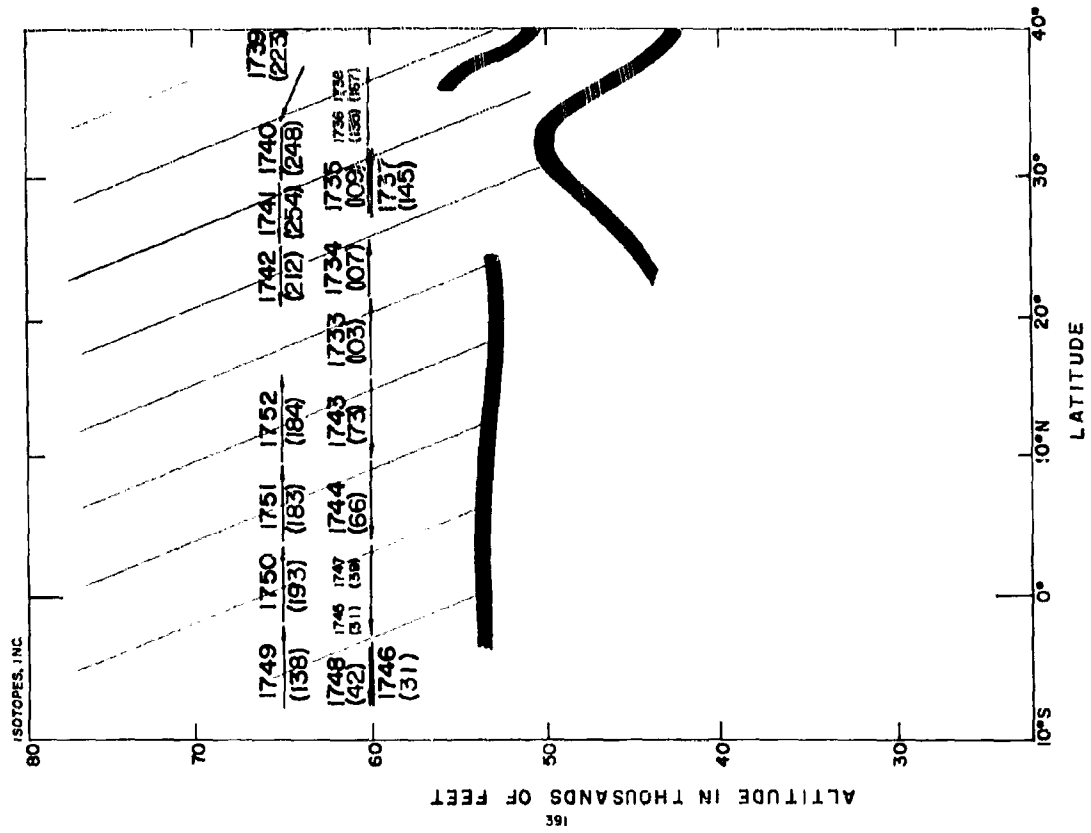


FIGURE 4.146 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				$\frac{\text{Sr}89}{\text{Sr}90}$	$\frac{\text{Ce}144}{\text{Sr}90}$	$\frac{\text{Ba}140}{\text{Sr}89}$	
					$\text{Sr}90$	W185 (Aug 58)						
2 July 1959 Mission 73 A												
716	1753	38°S	60	4,500	51 ± 3	---		---		---		
ES	1754	37°S	60	5,100	62 ± 2	2450 ± 60		---	13	---		
717	1755	38°S	63.8	6,400	96 ± 3	---		---		---		
ES	1756	37°S	64.6	6,500	82 ± 1	2250 ± 60		---	29	---		

2 JULY 59

FLIGHT 73A

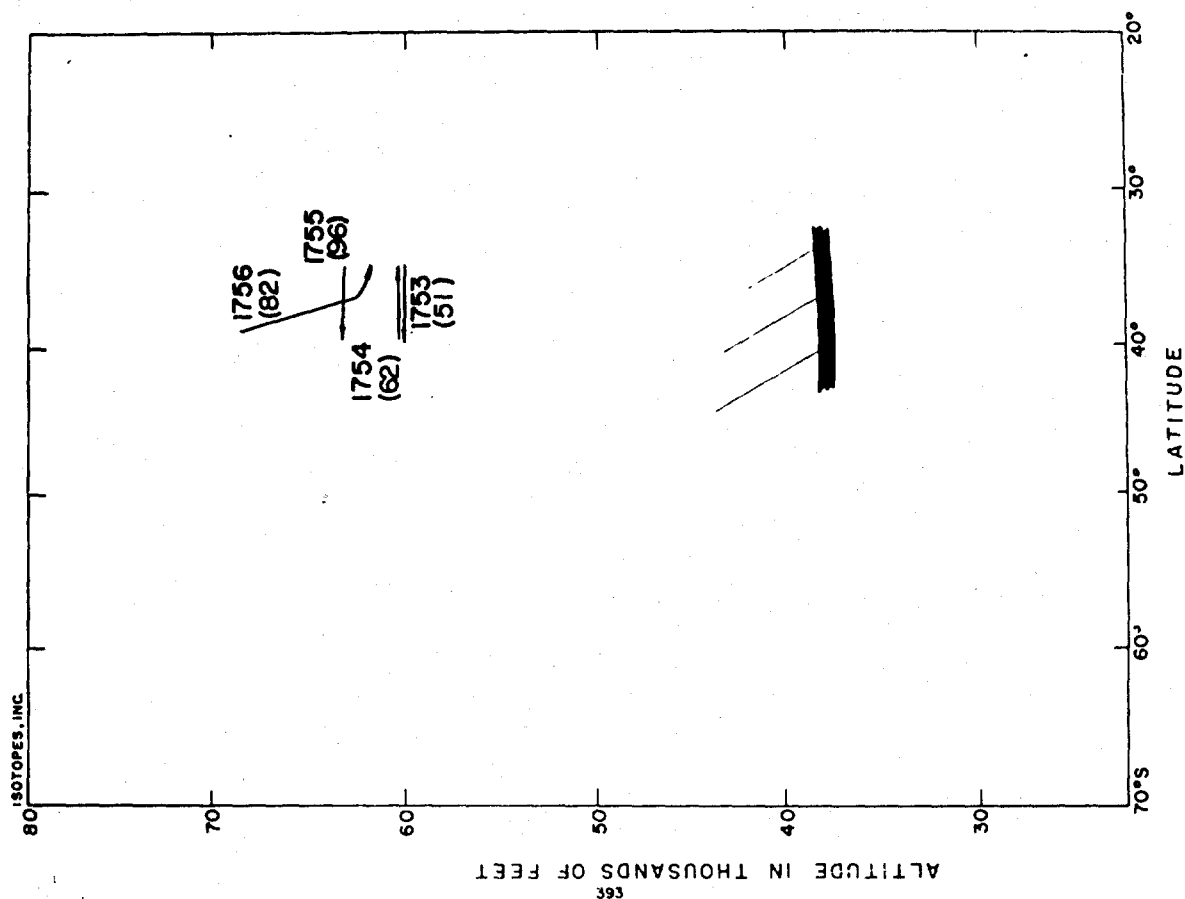


FIGURE 4/47 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
				Total Beta	Sr ⁹⁰ W185 (Aug 58)			
3 July 1959 Mission 73B								
715	1761	13°N	65.3	17,500	190 ± 1	7870 ± 90	12	---
RS	1762	7°N	66.1	21,000	210 ± 4	9590 ± 390	---	---
	1763	1°N	66.7	30,000	253 ± 3	11070 ± 280	12	< 1.0
	1764	5°S	67.5	30,000	252 ± 9	13100 ± 140	15	---
	1757	5°S	68.2	26,000	297 ± 5	7870 ± 350	10	---
	1758	1°N	68.5	29,000	322 ± 5	9060 ± 410	---	---
	1759	7°N	68.9	27,000	286 ± 6	8080 ± 360	---	---
	1765	4°N	68.7	29,000	264 ± 15	8180 ± 230	---	---
	1760	13°N	69.4	24,000	230 ± 4	7730 ± 120	15	---
	1766	13°N	69.4	23,000	237 ± 9	7200 ± 160	---	---

3 JULY 59

FLIGHT 73B

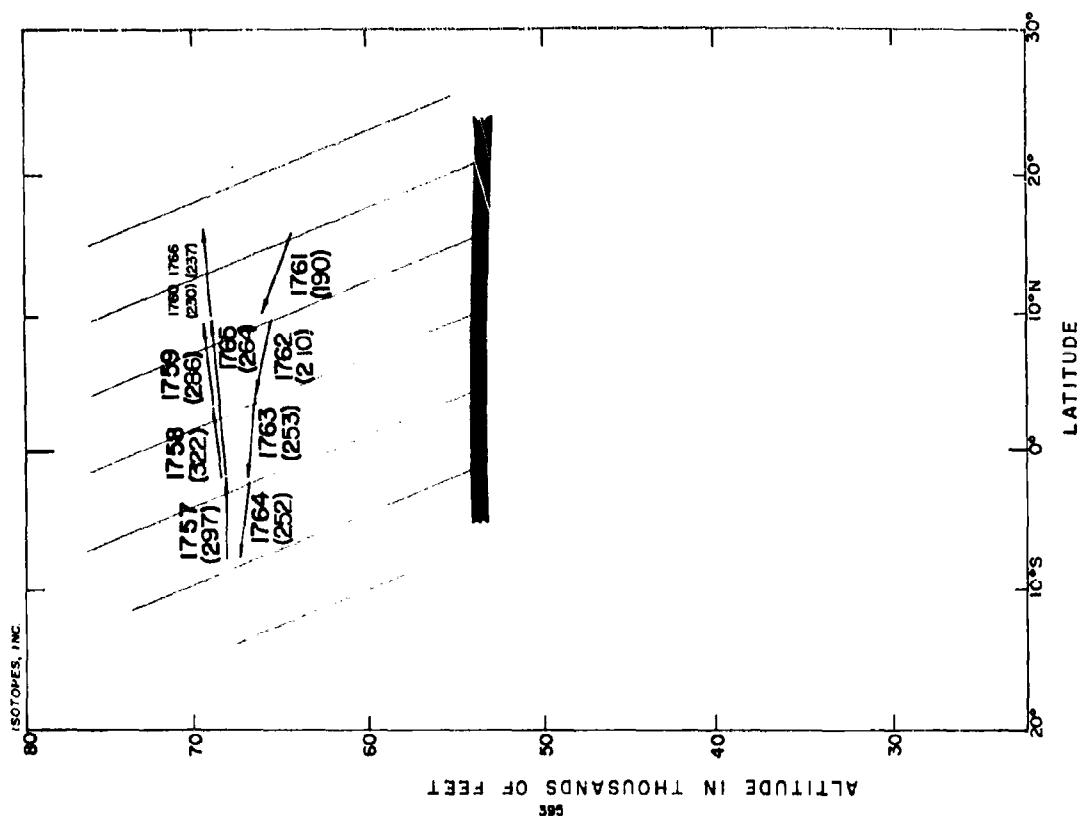


FIGURE 4.148 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF			Sr ⁸⁹	Ce ¹⁴⁴	Ba ¹⁴⁰
				Total Beta	Sr ⁹⁰	W185 (Aug 58)			
7 July 1959 Mission 74									
705 RN	1767	19°N	63.8	15,700	158 ± 3	4830 ± 120	---	---	---
	1768	24°N	64.3	17,400	176 ± 7	3040 ± 90	1.6	---	---
	1769	30°N	64.8	19,600	179 ± 1	2810 ± 90	1.1	---	---
	1771	30°N	64.8	21,000	208 ± 2	3170 ± 100	---	---	---
	1770	35°N	65	17,600	182 ± 9	2170 ± 60	1.4	---	---
	1772	35°N	65	20,000	196 ± 3	2700 ± 70	---	---	---
	1773	36°N	60	15,500	122 ± 3	4470 ± 100	3.4	---	---
	1774	32°N	60	14,900	122 ± 2	2090 ± 80	1.1	---	---
	1775	28°N	60	14,100	136 ± 1	4160 ± 200	1.2	---	---
	1776	23°N	60.3	12,800	110 ± 2	3990 ± 120	---	---	---
714 RS	1777	13°N	65	14,100	174 ± 3	5230 ± 80	1.0	---	---
	1778	7°N	65	14,000	165 ± 4	6880 ± 120	1.0	---	---
	1779	1°N	65	16,500	166 ± 3	9350 ± 400	1.3	---	---
	1781	1°N	65	15,900	165 ± 7	---	1.9	---	---
	1782	5°S	65	11,700	148 ± 1	10110 ± 350	1.4	---	---
	1783	5°S	60	4,800	49 ± 2	---	1.6	---	---
	1784	1°N	60	5,100	48 ± 1	3650 ± 150	1.2	---	---
	1780	7°N	60	5,500	37 ± 2	1561 ± 48	2.3	---	---
	1785	13°N	60	8,000	93 ± 2	3760 ± 170	1.2	---	---
718 EN	1786	13°S	65	12,400	136 ± 4	9410 ± 340	1.0	9.4	---
	1787	19°S	65	6,000	95 ± 1	2410 ± 100	---	---	---
	1788	25°S	65	7,600	111 ± 4	2170 ± 50	---	---	---
	1789	31°S	65	6,200	84 ± 3	1013 ± 80	---	---	---
717 EO	1794	35°S	50	2,000	25 ± 1	1266 ± 53	2.5	---	---
	1795	35°S	55	3,000	35 ± 1	---	---	---	---
	1796	35°S	65	6,300	93 ± 3	2130 ± 120	---	---	---
	1797	35°S	67.3	6,400	73 ± 5	865 ± 139	---	---	---
716 ES	1790	38°S	55	3,600	50 ± 1	1688 ± 24	---	---	---
	1791	44°S	55	5,000	78 ± 2	1730 ± 48	---	---	---
	1792	49°S	55	4,200	81 ± 2	1393 ± 33	---	---	---
	1793	54°S	55	3,500	66 ± 2	---	---	7.7	---

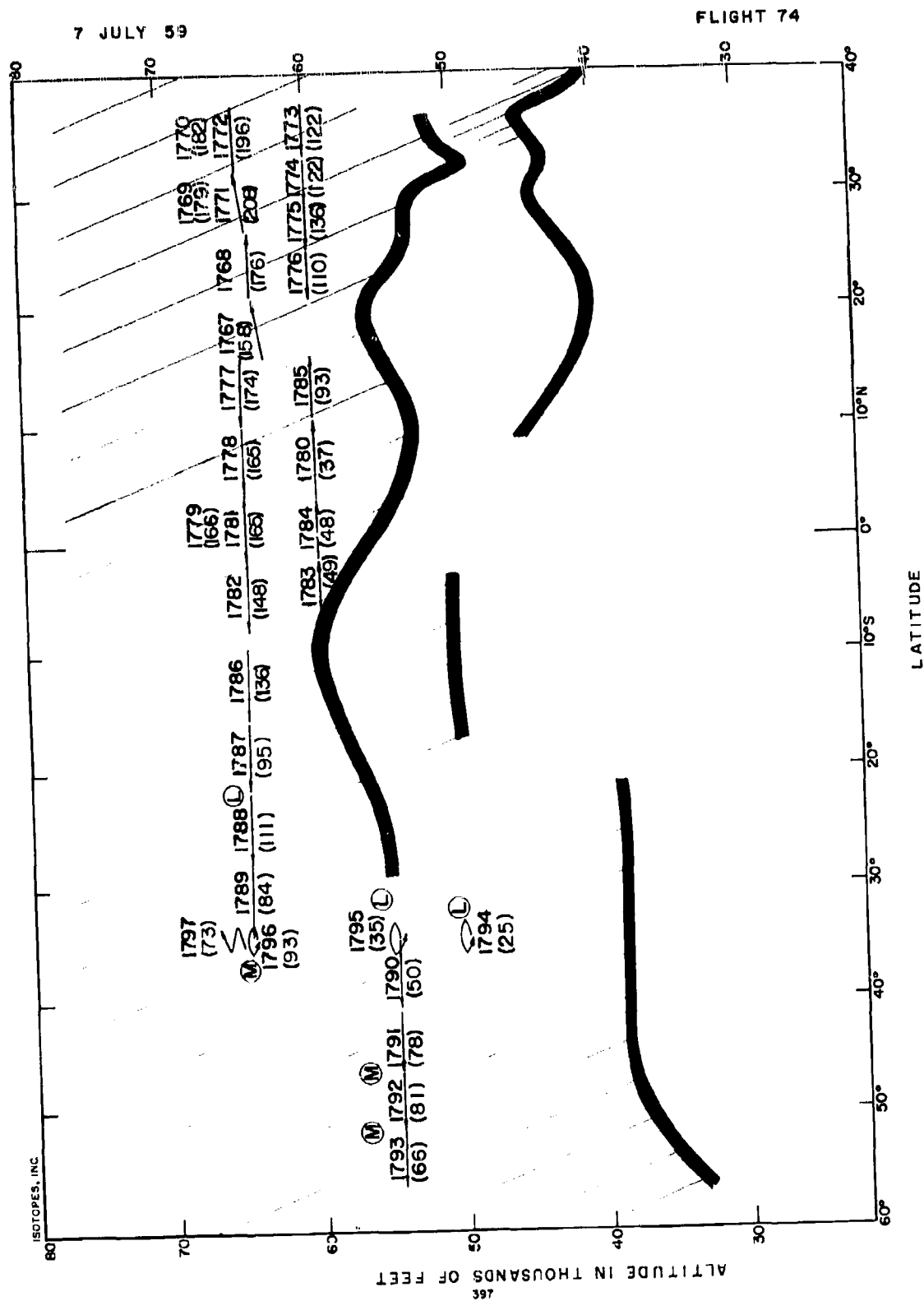


FIGURE 4149 FLIGHT CROSS SECTION

Table 4.3 (continued)

AAC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
10 July 1959 Mission 75									
715 RN	1802	19°N	60	7,200	96 ± 1	---	0.4	---	---
	1803	25°N	59.6	11,800	130 ± 3	3880 ± 70	1.2	---	---
	1804	30°N	60	9,400	116 ± 3	---	---	---	---
	1806	30°N	60	11,600	145 ± 2	---	---	---	---
	1805	35°N	60	9,400	120 ± 3	3400 ± 60	1.3	---	---
	1807	35°N	60	11,100	142 ± 6	---	---	---	---
	1808	36°N	64.1	17,100	189 ± 10	2650 ± 50	---	---	---
	1809	32°N	64.6	19,400	233 ± 4	3220 ± 110	---	---	---
	1810	28°N	65	17,400	181 ± 5	4930 ± 70	0.8	---	---
	1811	23°N	65	16,000	206 ± 1	5340 ± 180	1.7	---	---
	714 RS	1812	13°N	60	6,900	77 ± 2	3700 ± 90	1.0	---
1813		7°N	60	6,500	60 ± 1	---	3.9	---	---
1814		1°N	60	5,100	54 ± 1	3110 ± 40	0.4	---	---
1816		1°N	60	5,200	54 ± 1	---	---	---	---
1817		5°S	60	3,800	50 ± 1	3040 ± 100	---	---	---
1818		4°S	65	18,300	228 ± 5	10820 ± 340	0.7	---	---
1815		1°S	65	18,200	200 ± 7	---	0.8	---	---
1819		1°N	65	21,000	246 ± 1	---	---	---	---
1820		7°N	65	21,000	217 ± 1	---	2.4	---	---
1821		13°N	65	19,900	207 ± 3	9920 ± 340	---	---	---
717 ES		1798	38°S	40	430	8 ± 1	372 ± 22	---	---
	1799	38°S	40	570	10 ± 1	350 ± 14	---	---	---
718 ES	1800	38°S	50	1,820	28 ± 1	---	0.9	10	---
	1801	38°S	50	1,510	22 ± 1	942 ± 41	---	---	---

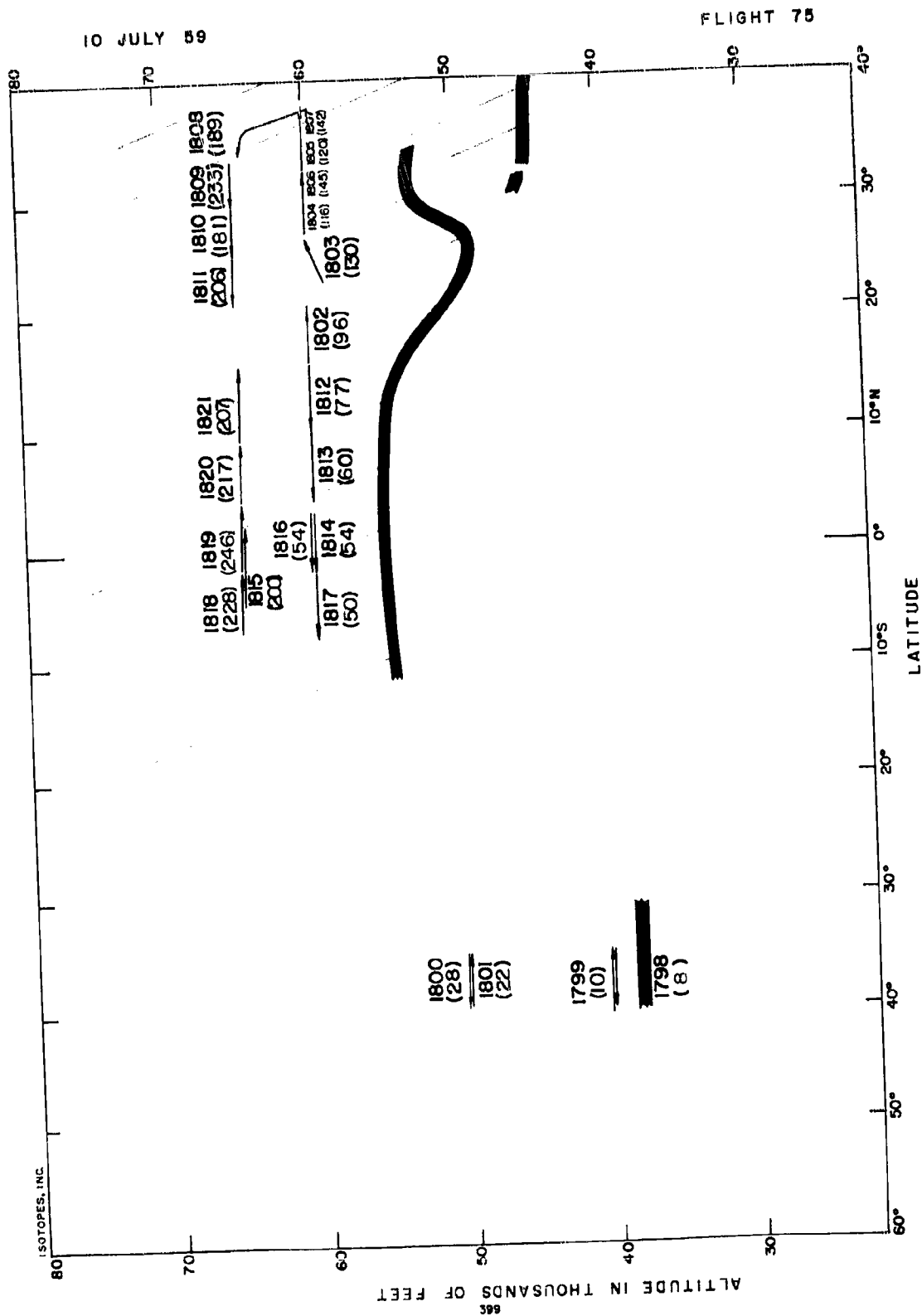


FIGURE 4150 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
14 July 1959 Mission 76									
715 RN	1822	23°N	64.3	15,200	176 ± 9	5040 ± 310	2	---	---
	1823	27°N	65.2	17,000	213 ± 5	3010 ± 140	---	---	---
	1824	31°N	65.2	17,800	236 ± 9	---	---	---	---
	1825	36°N	65.3	15,800	223 ± 1	3690 ± 100	0.8	---	---
	1828	35°N	66.3	17,000	218 ± 4	2120 ± 90	1.2	---	---
	1829	30°N	66.8	17,900	213 ± 2	2100 ± 120	1.8	---	---
	1830	24°N	67.4	17,100	234 ± 4	---	0.5	---	---
	1826	24°N	67.4	18,200	249 ± 10	4240 ± 170	3.0	---	---
	1831	19°N	68.1	19,100	260 ± 2	6750 ± 90	0.9	---	---
714 RS	1827	19°N	68.1	21,000	279 ± 4	7210 ± 180	---	---	---
	1832	13°N	64.5	16,200	179 ± 6	5560 ± 80	0.6	---	---
	1833	7°N	65.1	16,900	239 ± 10	8660 ± 160	---	---	---
	1834	1°N	65.6	20,000	213 ± 5	7500 ± 140	1.4	---	---
	1836	5°S	66.5	18,600	213 ± 9	7110 ± 120	1.1	---	---
	1838	5°S	67.3	18,200	226 ± 10	---	1.8	---	---
	1839	1°N	68.1	31,000	355 ± 2	9190 ± 580	---	11	---
	1840	7°N	68.8	26,000	280 ± 4	---	1.5	---	---
	1836	7°N	68.8	30,000	350 ± 2	---	---	---	---
1841	13°N	69.4	27,000	282 ± 4	9670 ± 130	1.7	11	---	
	1837	13°N	69.4	30,000	311 ± 7	10280 ± 150	1.0	---	---

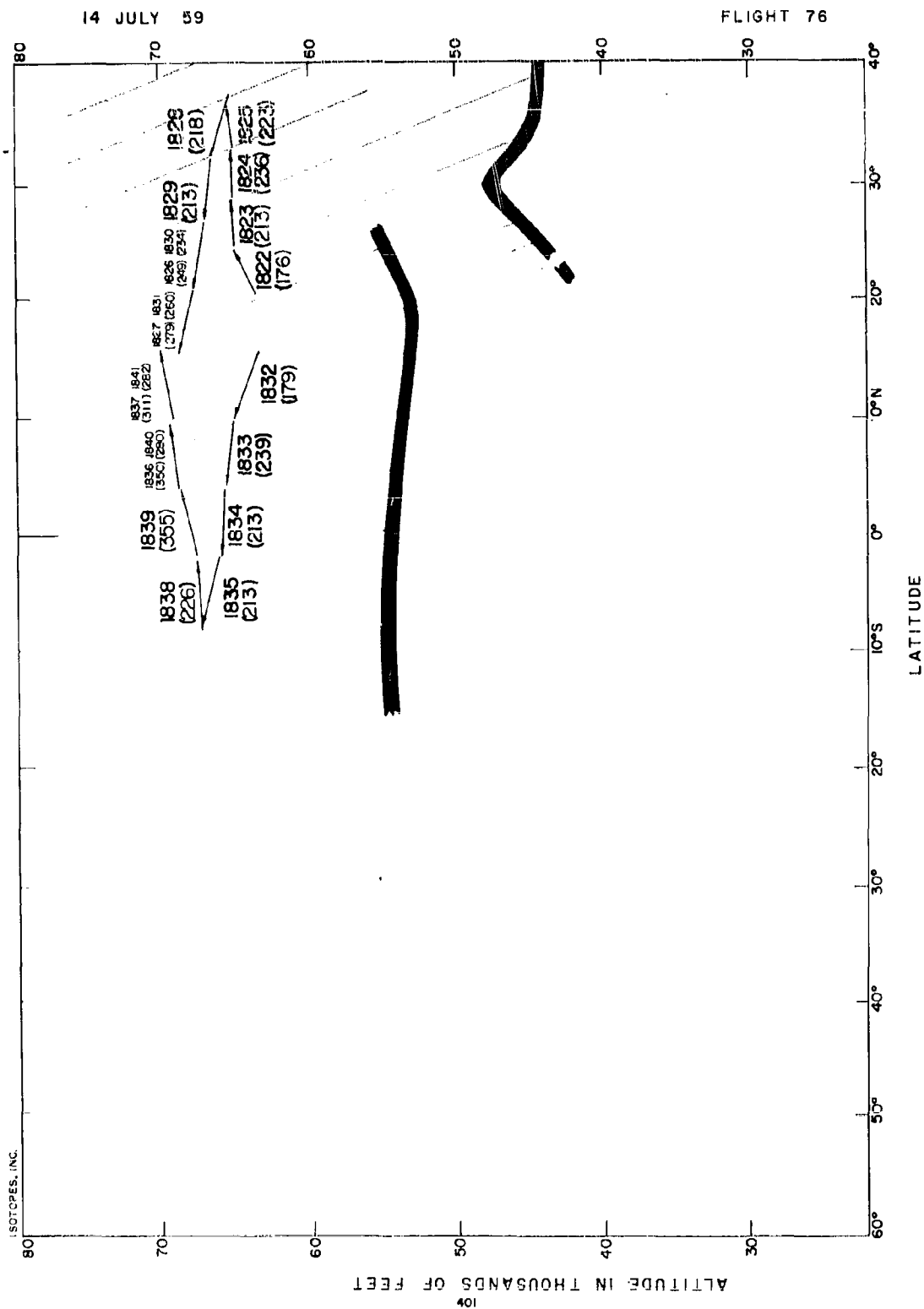


FIGURE 4151 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
16 July 1959 Mission 77A									
717	1864	38°S	64.1	9,600	104 ± 1	2620 ± 190	1.9	11	---
ES	1865	37°S	68.1	10,100	139 ± 7	2280 ± 70	0.8	8.4	---

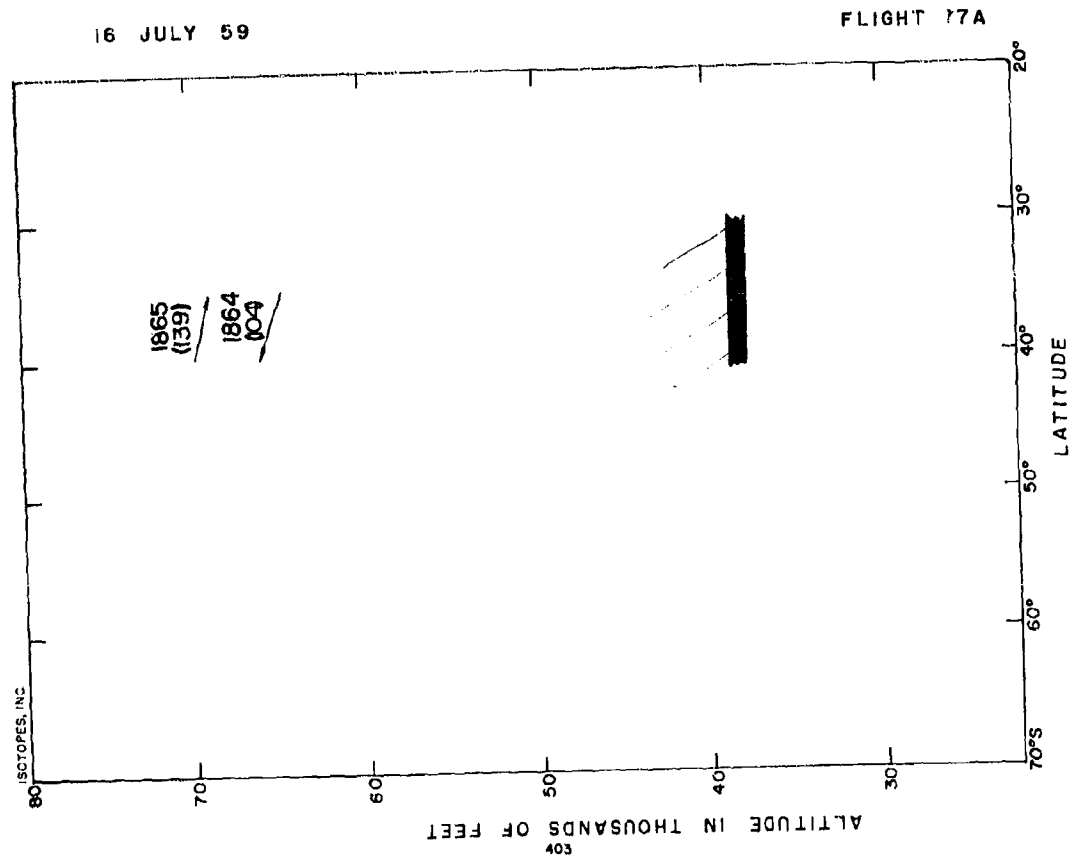


FIGURE 4.152 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)				
17 July 1959 Mission 77B										
705 RN	1842	21°N	64	17,100	182 ± 5	7180 ± 240		---	---	---
	1843	24°N	64	17,200	187 ± 8	2940 ± 70		1.0	---	---
	1844	30°N	64.5	16,800	202 ± 1	2960 ± 110		1.0	---	---
	1846	30°N	64.5	21,000	219 ± 3	3290 ± 90		---	---	---
	1845	35°N	64.9	16,900	215 ± 9	2940 ± 80		1.4	---	---
	1847	35°N	64.9	18,000	244 ± 1	2890 ± 80		---	---	---
	1848	36°N	60.5	17,900	226 ± 1	3660 ± 80		1.0	---	---
	1849	32°N	60	18,700	197 ± 7	---		0.7	---	---
	1850	27°N	60	14,400	174 ± 7	4400 ± 210		1.5	---	---
	1851	23°N	60	12,300	140 ± 2	4660 ± 100		2.2	---	---
715 RS	1852	13°N	65	17,200	182 ± 3	7530 ± 310		1.0	---	---
	1853	7°N	65	13,700	146 ± 1	---		---	---	---
	1854	1°N	65	16,700	182 ± 11	10670 ± 350		1.5	---	---
	1856	1°N	65	17,100	221 ± 9	---		---	---	---
	1855	5°S	65.5	15,100	178 ± 9	---		1.5	---	---
	1857	5°S	65.5	18,900	166 ± 1	---		---	---	---
	1858	5°S	60	4,500	46 ± 4	3890 ± 90		4.8	---	---
	1859	2°N	60	4,000	44 ± 1	3240 ± 120		0.8	---	---
	1860	8°N	60	4,700	49 ± 2	3100 ± 70		---	---	---
	1861	13°N	60	8,900	103 ± 5	4120 ± 120		1.4	---	---

17 JULY 59

FLIGHT 77B

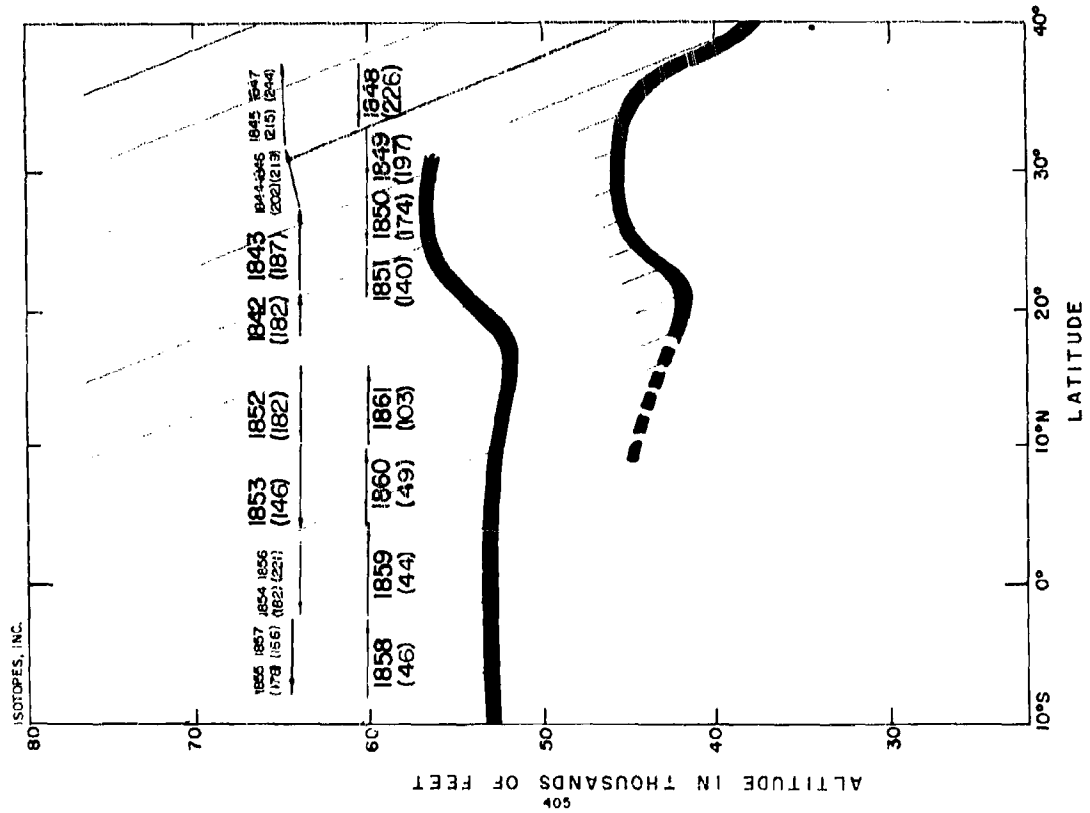


FIGURE 4.153 FLIGHT CROSS SECTION

Table 4.3 (continued)

		dpm/1000 SCF										
AC No.	HASP No.	Latitude	Altitude	Total Beta	Sr90		W185 (Aug 58)	Sr89		Ce144 Sr90	Ba140 Sr89	
19 July 1959 Mission 78X												
705 RP	1866	23°N	60	10,100	114 ± 1	---	---	0.8	---	---	---	
	1870	23°N	60	13,400	121 ± 5	---	---	1.2	---	---	---	
	1867	29°N	60	12,100	137 ± 3	---	---	1.2	---	---	---	
	1871	29°N	60	14,500	127 ± 3	---	---	1.8	---	---	---	
	1868	35°N	60	15,400	161 ± 7	---	---	1.4	---	---	< 0.7	
	1872	35°N	60	17,700	176 ± 5	---	---	1.2	---	---	---	
	1869	41°N	60	12,600	142 ± 6	---	---	0.9	---	---	---	
714 RP	1873	41°N	60	15,500	140 ± 5	---	---	0.6	---	---	---	
	1874	23°N	64.5	15,200	158 ± 1	---	---	1.9	---	---	---	
	1878	23°N	64.5	15,900	161 ± 2	---	---	---	---	---	---	
	1875	29°N	65	17,100	187 ± 1	---	---	1.3	---	---	---	
	1879	29°N	65	16,900	224 ± 1	---	---	---	---	---	---	
	1876	35°N	65	18,100	189 ± 2	---	---	---	---	---	---	
	1880	35°N	65	17,300	203 ± 1	---	---	---	---	---	---	
715 RP	1877	41°N	65	19,400	208 ± 1	2290 ± 130	---	---	---	---	---	
	1881	41°N	65	18,100	162 ± 1	2500 ± 110	---	1.5	---	---	---	
	1882	23°N	65.5	15,800	174 ± 2	---	---	---	---	---	---	
	1886	23°N	65.5	17,200	180 ± 9	---	---	0.8	---	---	---	
	1883	29°N	66.2	15,800	186 ± 1	3620 ± 150	---	---	---	---	---	
	1887	29°N	66.2	16,000	198 ± 1	3170 ± 110	---	---	---	---	---	
	1884	35°N	66.6	15,800	226 ± 2	2360 ± 130	---	---	---	---	---	
1888	35°N	66.6	18,800	200 ± 2	2070 ± 100	---	---	---	---	---		
1885	41°N	66.9	17,100	193 ± 9	1404 ± 104	---	---	---	---	---		
1889	41°N	66.9	18,100	190 ± 10	1476 ± 77	---	---	---	---	---		

19 JULY 59

FLIGHT 78X

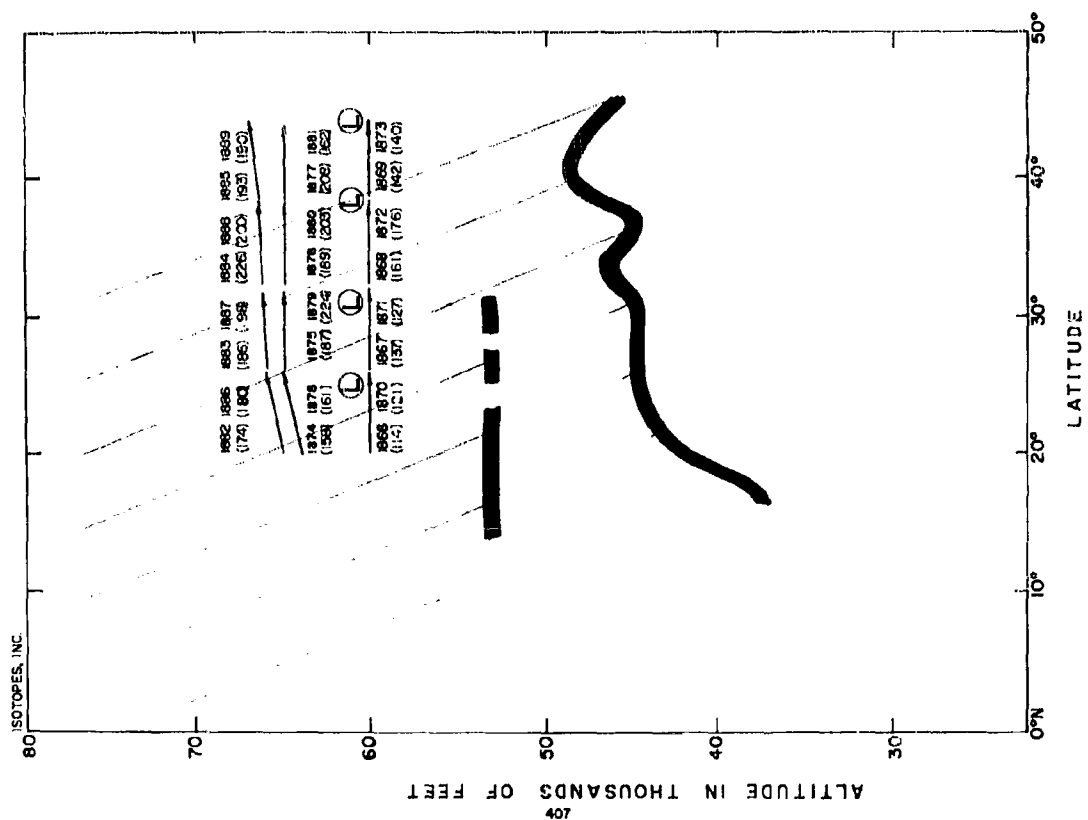


FIGURE 4.154 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ /Sr ⁹⁰	Ce ¹⁴⁴ /Sr ⁹⁰	Ba ¹⁴⁰ /Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
21 July 1959 Mission 78									
714 PN	1890	47°N	45	4,100	49 ± 1	1759 ± 56	1.3	---	---
	1891	53°N	45	7,400	65 ± 2	2530 ± 90	1.3	---	---
	1892	58°N	45	8,100	76 ± 2	3010 ± 120	1.5	13	---
	1894	58°N	45	8,600	69 ± 2	2680 ± 80	1.3	---	---
	1893	64°N	45	7,600	66 ± 1	2190 ± 120	1.6	---	---
	1895	64°N	45	8,300	81 ± 3	3130 ± 280	1.4	11	---
	1896	65°N	55	16,200	190 ± 15	4070 ± 400	1.1	---	---
	1897	59°N	55	18,200	161 ± 4	3660 ± 150	---	6.4	< 0.6
	1898	53°N	55	16,600	144 ± 5	3500 ± 130	1.0	---	---
	1899	48°N	55	11,200	117 ± 2	4530 ± 80	1.9	---	---
705 PN	1901	53°N	63.4	16,200	189 ± 1	1229 ± 47	1.9	---	---
	1902	59°N	63.1	17,000	197 ± 1	964 ± 45	0.9	11	---
	1904	59°N	63.1	18,600	207 ± 2	1060 ± 41	---	---	---
	1903	65°N	63.2	14,700	133 ± 5	675 ± 36	3.5	---	---
	1905	65°N	63.2	16,700	212 ± 3	819 ± 48	0.8	---	---
	1906	65°N	60	17,000	218 ± 7	1277 ± 33	0.7	---	---
	1907	59°N	60	16,900	219 ± 1	2020 ± 40	1.1	---	---
	1908	53°N	60	13,700	215 ± 6	2240 ± 50	0.9	---	---
	1909	48°N	60	16,700	218 ± 7	3780 ± 60	1.3	---	---
	717 EN	1930	32°S	59.5	3,600	48 ± 2	---	---	17
1931		26°S	60	3,800	50 ± 1	2340 ± 140	---	---	---
1932		20°S	60	4,600	63 ± 1	2050 ± 60	---	8.7	---
1933		16°S	60	3,800	41 ± 1	3180 ± 130	---	---	---
1934		38°S	45	< 430	3 ± 1	< 386	---	---	---
716 ES	1935	43°S	45	620	12 ± 1	482 ± 23	---	7.0	---
	1936	48°S	45	2,700	39 ± 1	1205 ± 51	---	8.9	---
	1937	53°S	45	2,600	33 ± 1	---	---	8.9	---

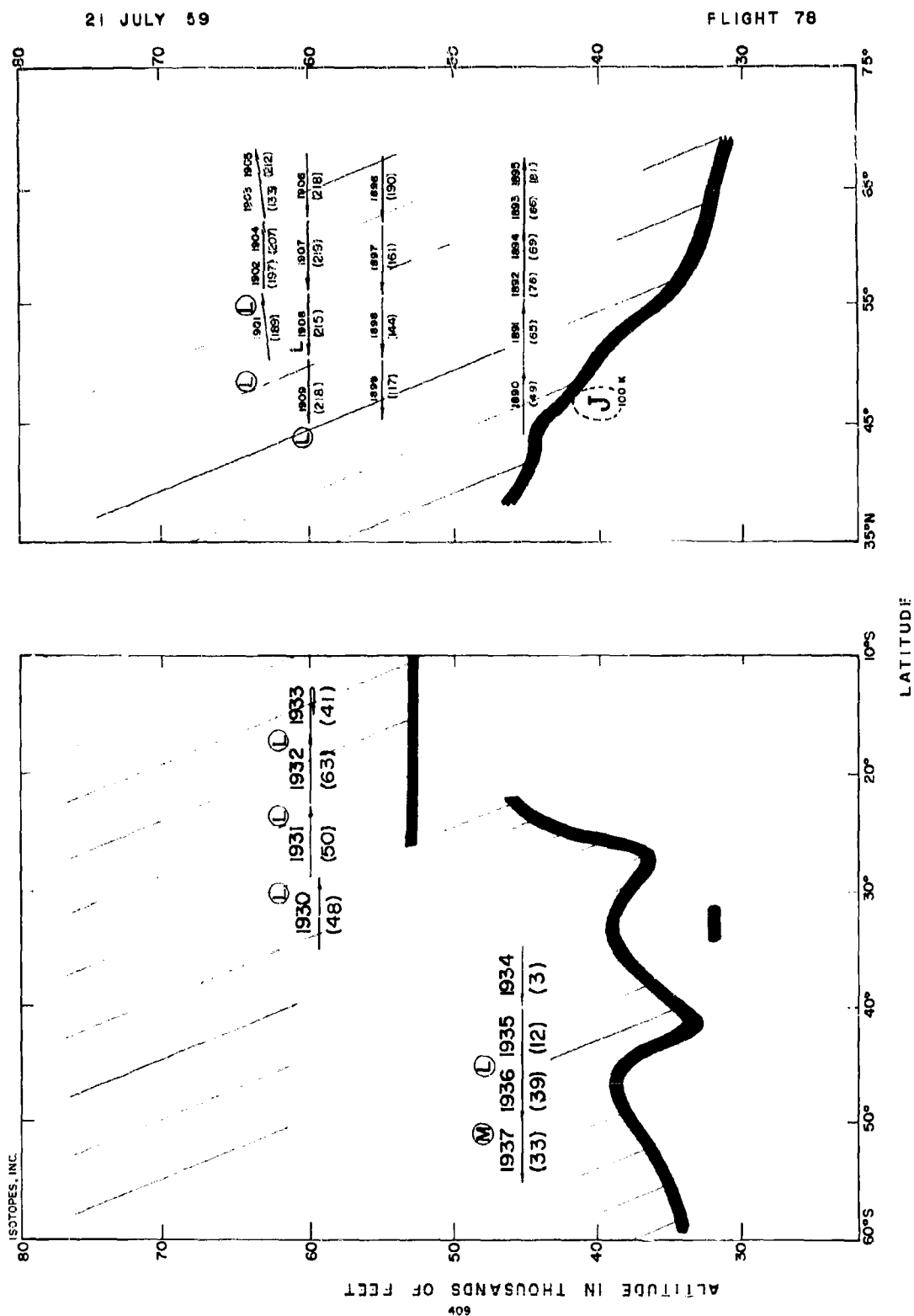


FIGURE 4.155 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF				Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹	
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)						
23 July 1959 Mission 79A												
717	1938	38°S	40	< 440	4 ± 1	199 ± 25			---	---	---	
ES	1939	37°S	40	< 320	3 ± 1	125 ± 18			---	---	---	
716	1940	38°S	50	3,100	52 ± 2	1469 ± 24			---	---	---	
ES	1941	37°S	50	2,500	36 ± 1	1270 ± 34			---	---	---	

23 JULY 59

FLIGHT 79A

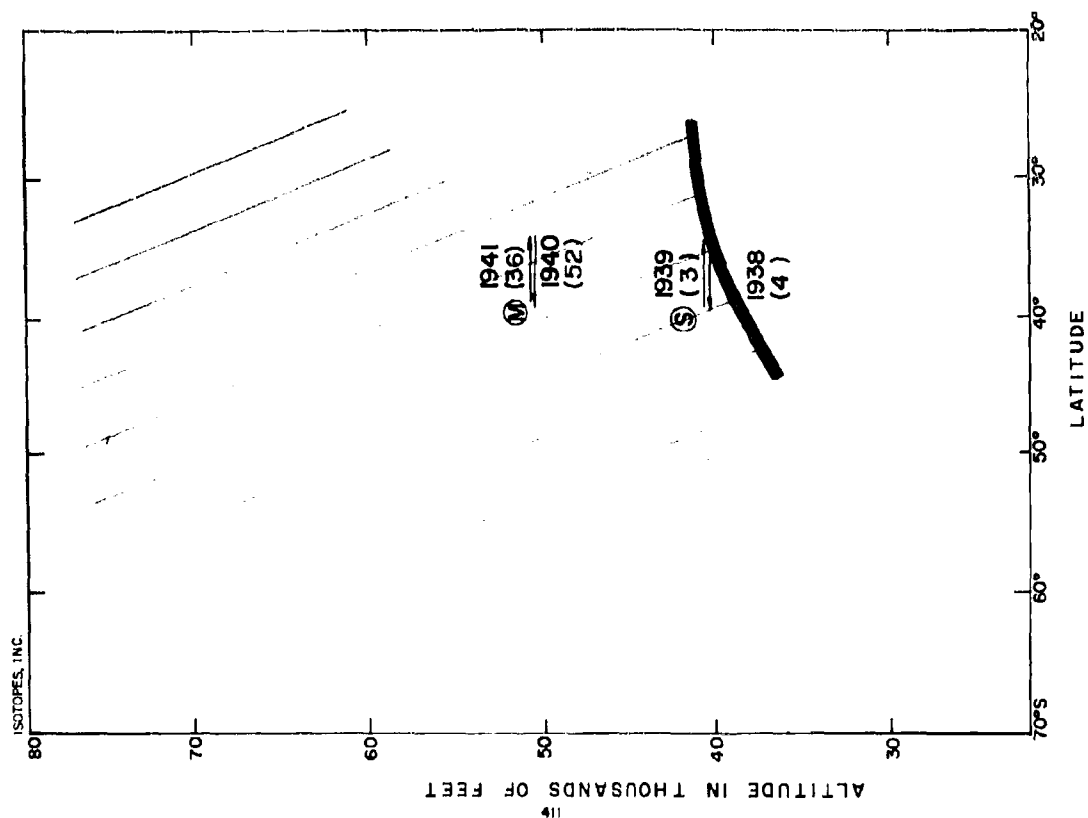


FIGURE 4156 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC. No.	HASP No.	Latitude	Altitude	dpm/1000 SCF					$\frac{\text{Sr}89}{\text{Sr}90}$	$\frac{\text{Ce}144}{\text{Sr}90}$	$\frac{\text{Ba}140}{\text{Sr}89}$	
				Total Beta	Sr90	W185 (Aug 58)						
24 July 1959 Mission 79B												
705 PN	1920	47°N	50	6,800	58 + 1	2330 + 110		1.4	---	---	---	
	1921	53°N	50	7,300	79 + 1	2980 ± 110		0.5	---	---	---	
	1922	59°N	50	9,700	107 + 4	2830 ± 60		1.5	---	---	---	
	1924	59°N	50	13,700	97 + 3	4230 + 230		2.4	---	---	---	
	1923	65°N	50	12,400	121 + 6	3730 + 40		1.4	12	---	---	
	1925	65°N	50	15,300	136 + 3	2350 + 80		1.8	8.6	---	---	
	1926	65°N	55	16,700	171 + 4	3900 ± 150		---	12	---	---	
	1927	59°N	55	17,600	175 + 5	3930 + 60		0.8	---	---	---	
	1928	53°N	55	14,300	152 + 4	4550 + 210		1.5	---	---	---	
	1929	48°N	55	14,500	151 + 2	5080 ± 220		---	---	---	---	
715 PN	1910	47°N	60	15,700	174 + 6	3400 + 90		1.3	---	---	---	
	1911	53°N	60	16,400	177 + 6	3480 ± 80		1.5	9.3	---	---	
	1912	59°N	60	15,900	199 + 6	1625 + 54		1.1	---	---	---	
	1914	59°N	60	16,700	233 + 18	2100 + 50		1.6	---	---	---	
	1913	65°N	60	17,100	205 + 7	1800 + 23		1.3	9.6	---	---	
	1915	65°N	60	17,200	201 + 12	1650 ± 54		1.4	---	---	---	
	1916	65°N	65	13,300	226 + 7	400 + 100		0.6	9.5	---	---	
	1917	59°N	65	14,300	214 + 6	650 + 41		0.9	---	---	---	
	1918	53°N	65	16,000	211 + 4	800 + 46		1.1	---	---	---	
	1919	48°N	65	17,400	239 + 4	2080 + 60		0.9	9.6	---	---	

24 JULY 59

FLIGHT 798

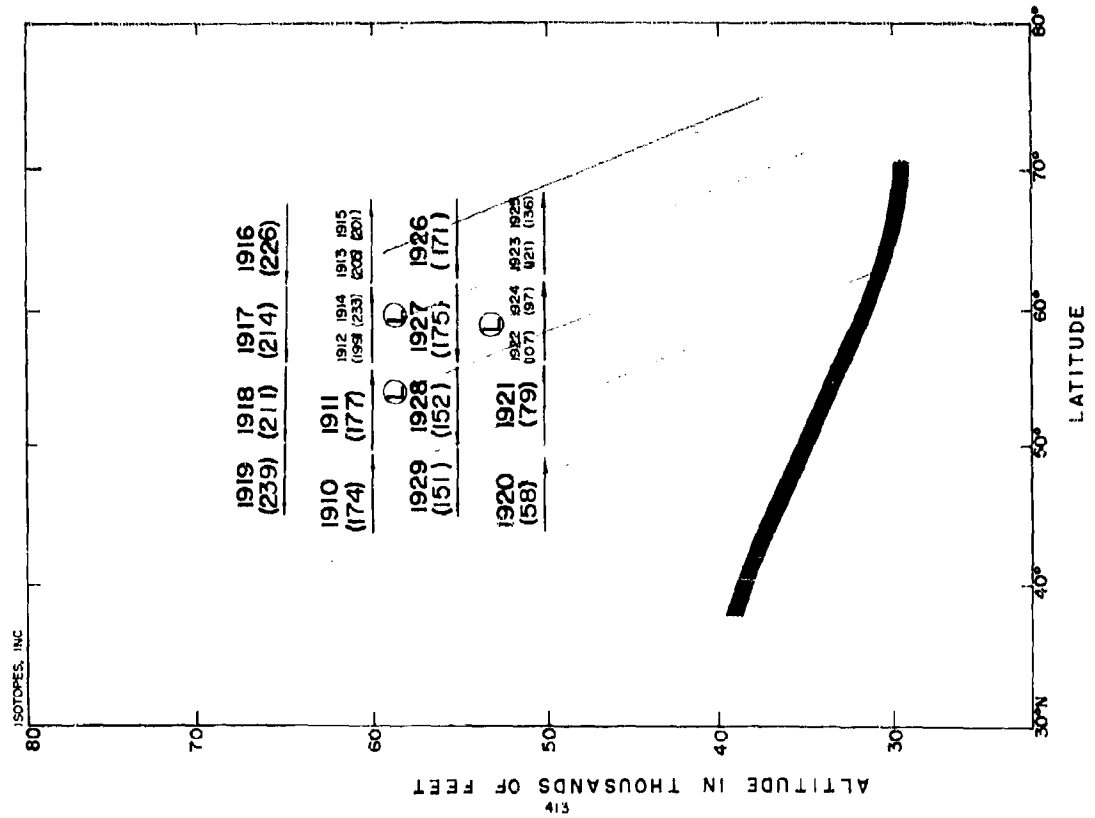


FIGURE 4157 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
26 July 1959 Mission 79X									
705 PR	1942	41°N	59.9	11,600	103 ± 4	2450 ± 90	---	---	---
	1946	41°N	59.9	12,000	137 ± 1	---	---	---	---
	1943	35°N	60	12,300	117 ± 5	---	---	---	---
	1944	29°N	60	10,000	126 ± 6	---	---	---	---
	1945	23°N	60	12,000	122 ± 6	---	---	---	---
714 PR	1947	41°N	63.4	15,400	211 ± 2	---	---	---	---
	1951	41°N	63.4	14,200	186 ± 8	---	---	---	---
	1948	35°N	64.5	16,800	204 ± 3	2580 ± 110	1.2	---	---
	1952	35°N	64.5	17,200	193 ± 9	---	1.3	---	---
	1949	29°N	65	16,100	188 ± 7	---	---	---	---
	1953	29°N	65	15,900	174 ± 6	---	---	---	---
	1950	23°N	65	15,600	184 ± 4	---	---	---	---
	1954	23°N	65	15,800	141 ± 1	---	---	---	---
	1955	41°N	63	16,400	198 ± 9	2580 ± 50	---	---	---
	1959	41°N	63	13,400	246 ± 11	3010 ± 110	---	---	---
715 PR	1956	35°N	65.2	17,800	186 ± 8	2070 ± 100	1.9	---	---
	1960	35°N	65.2	16,400	227 ± 5	2400 ± 90	---	---	---
	1957	29°N	66	17,500	201 ± 1	3750 ± 150	---	---	---
	1961	29°N	66	13,900	225 ± 2	3980 ± 130	---	---	---
	1958	23°N	66.7	16,600	208 ± 1	4850 ± 140	---	---	---
	1962	23°N	66.7	17,800	228 ± 2	5030 ± 180	---	---	---

26 JULY 59

FLIGHT 79X

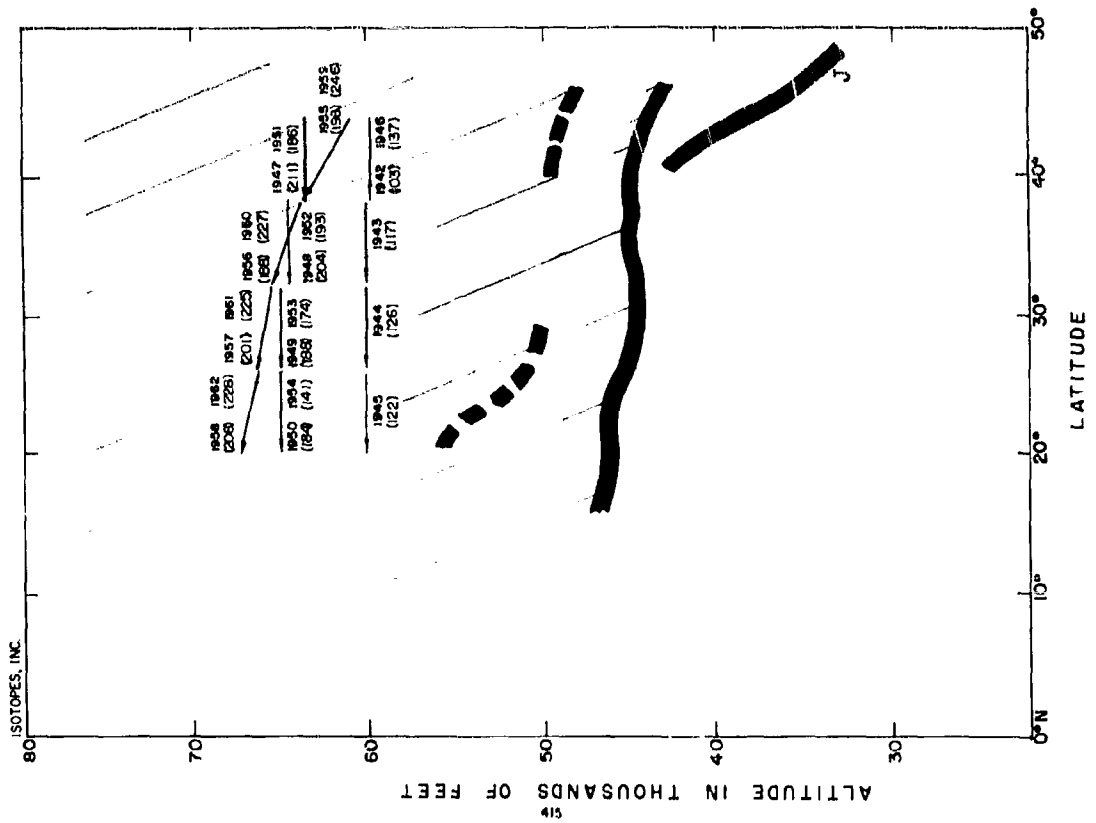


FIGURE 4.58 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr89 Sr90	Ce144 Sr90	Ba140 Sr89
					Sr90	W185 (Aug 58)				
28 July 1959 Mission 80										
714 RO	1963	18°N	50	960	9 + 1	387 + 21		1.5	---	---
	1964	18°N	52	1,400	17 + 1	800 + 46		---	---	---
	1967	18°N	52	2,100	24 + 3	1084 + 28		0.7	---	---
	1965	19°N	54	3,300	33 + 1	1316 + 26		---	---	---
	1968	19°N	54	3,400	33 + 1	1342 + 27		---	---	---
	1966	20°N	56	5,900	48 + 1	4670 + 60		0.8	---	---
	1969	20°N	56	6,000	40 + 1	2090 + 30		2.1	14	---
	1970	19°N	58	6,200	56 + 1	2940 + 60		---	12	---
	1971	19°N	60	8,500	96 + 1	4640 + 70		1.7	11	---
	1972	18°N	62	8,700	133 + 3	4750 + 160		1.0	10	---
715 RO	1973	19°N	64	12,500	138 + 3	5080 + 70		1.1	---	---
	1977	19°N	64	13,900	147 + 1	5880 + 150		1.5	12	---
	1974	18°N	66	15,000	172 + 6	8180 + 370		---	---	---
	1978	18°N	66	14,400	203 + 7	8750 + 260		0.8	5.1	---
	1975	19°N	67.4	15,900	177 + 5	8180 + 340		3.6	---	---
	1979	19°N	67.4	20,000	224 + 1	8640 + 190		0.6	14	---
	1976	19°N	70	17,500	215 + 5	6840 + 250		2.4	---	---
	1980	19°N	70	21,000	250 + 20	7710 + 1530		1.3	11	< 0.2
	1981	35°S	48	840	12 + 1	593 + 16		---	9.5	---
	1982	35°S	53	2,600	50 + 1	1600 + 72		---	7.6	---
717 EO	1983	35°S	58	4,500	65 + 1	2010 + 80		---	7.3	---
	1984	35°S	62	5,800	82 + 3	1264 + 68		1.3	11	---
	1985	35°S	43	< 440	4 + 1	258 + 12		---	9.5	---
	1986	35°S	65.2	7,500	117 + 2	2170 + 60		0.7	7.0	---
	1987	35°S	68.5	8,600	112 + 6	1032 + 37		---	11	---
	1988	35°S	69.7	10,500	132 + 5	851 + 27		0.6	9.3	---

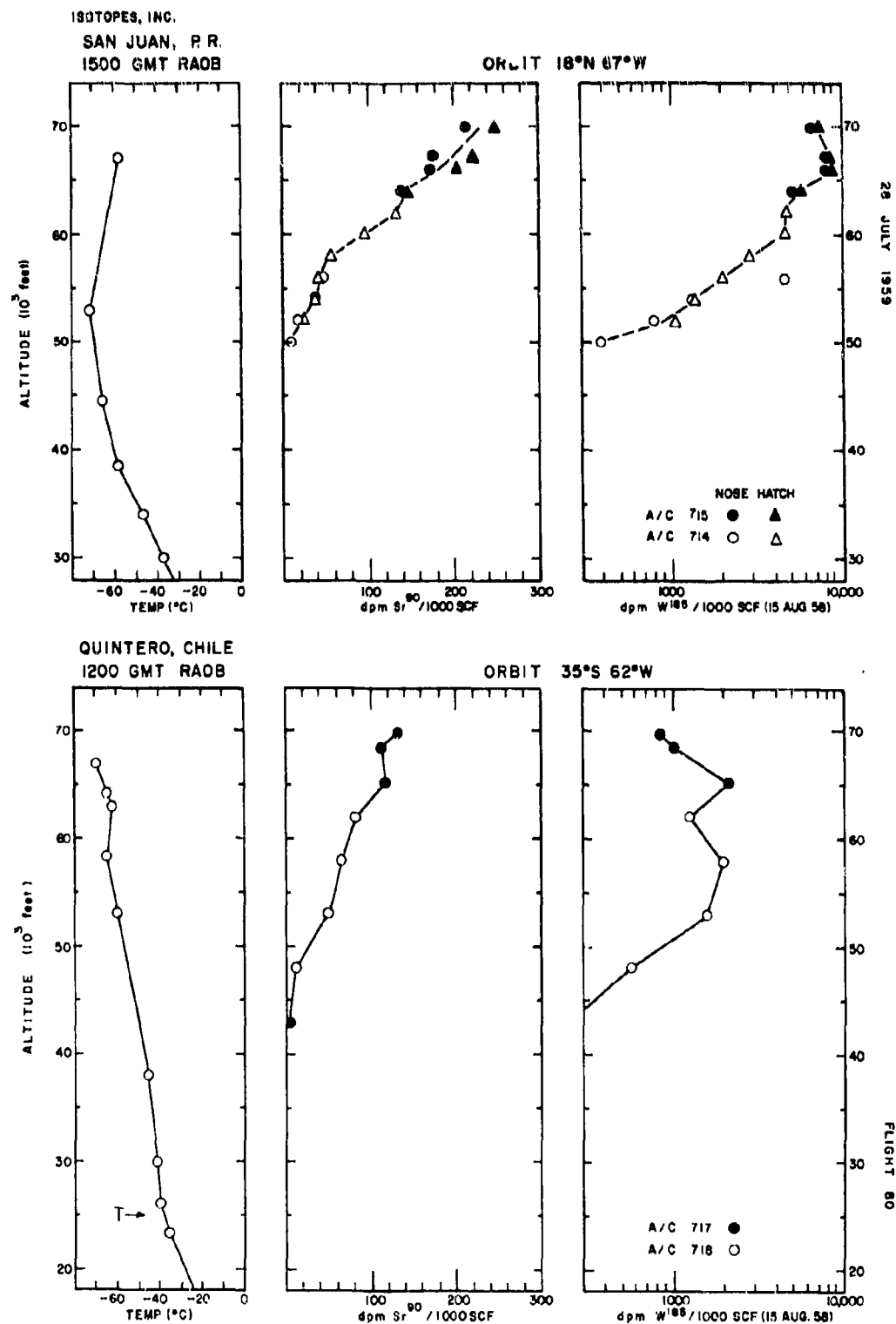


FIGURE 4.159 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰	Ba ¹⁴⁰ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)			
30 July 1959 Mission 81A									
718	1989	38°S	60	4,500	69 ± 1	3170 ± 80	1.6	---	---
ES	1990	37°S	60	5,200	69 ± 3	3430 ± 90	---	---	---
716	1991	38°S	64.5	7,200	96 ± 2	2420 ± 60	---	8.7	---
ES	1992	37°S	70	12,700	152 ± 4	2830 ± 130	1.1	9.3	---

30 JULY 59

FLIGHT 81A

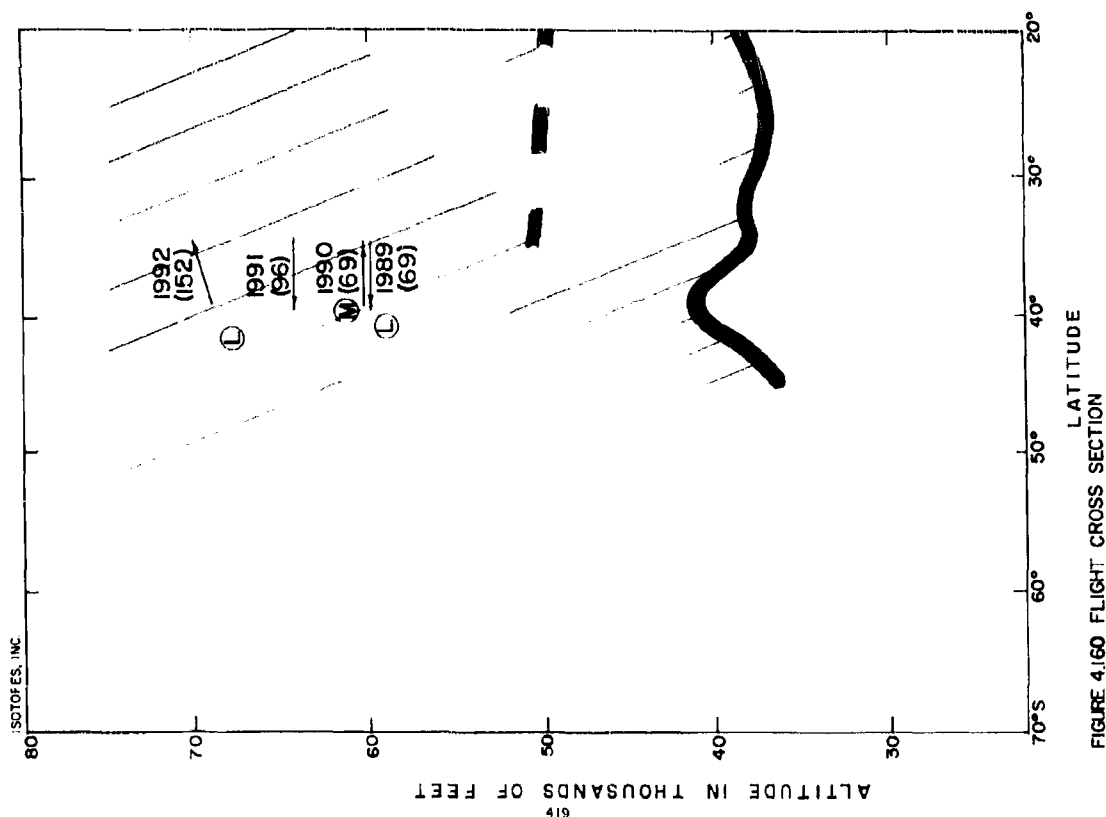


FIGURE 4.160 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr 89 Sr 90	Ce 144 Sr 90	Ba 140 Sr 89
					Sr 90	W 185 (Aug 58)				
31 July 1959 Mission 81B										
714 FN	1993	19°N	60	3,700	47 ± 2	1827 ± 115		1.9	---	---
	1994	24°N	59.7	9,200	109 ± 1	3110 ± 120		1.1	---	---
	1995	30°N	60	8,700	100 ± 1	3450 ± 90		1.0	---	---
	1996	35°N	60	12,700	139 ± 6	3450 ± 90		0.5	10	---
	1997	36°N	65	17,400	178 ± 11	3110 ± 50		1.2	---	---
	1998	27°N	65	16,500	173 ± 6	4230 ± 130		1.3	12	< 0.4
715 RS	1999	13°N	60	6,600	74 ± 2	3320 ± 40		0.8	---	---
	2000	7°N	59.8	5,700	55 ± 1	3390 ± 130		1.4	---	---
	2001	1°N	60.2	5,500	59 ± 1	3760 ± 120		---	---	---
	2002	5°S	60.3	6,000	58 ± 2	3550 ± 40		0.9	---	---
	2003	5°S	65	17,700	175 ± 3	7670 ± 300		1.2	---	---
	2004	1°N	65	16,500	195 ± 1	---		1.6	---	---
	2005	7°N	65	14,500	158 ± 1	---		0.6	---	---
	2006	13°N	65	14,600	167 ± 8	6450 ± 210		1.2	---	---

31 JULY 59

FLIGHT 81B

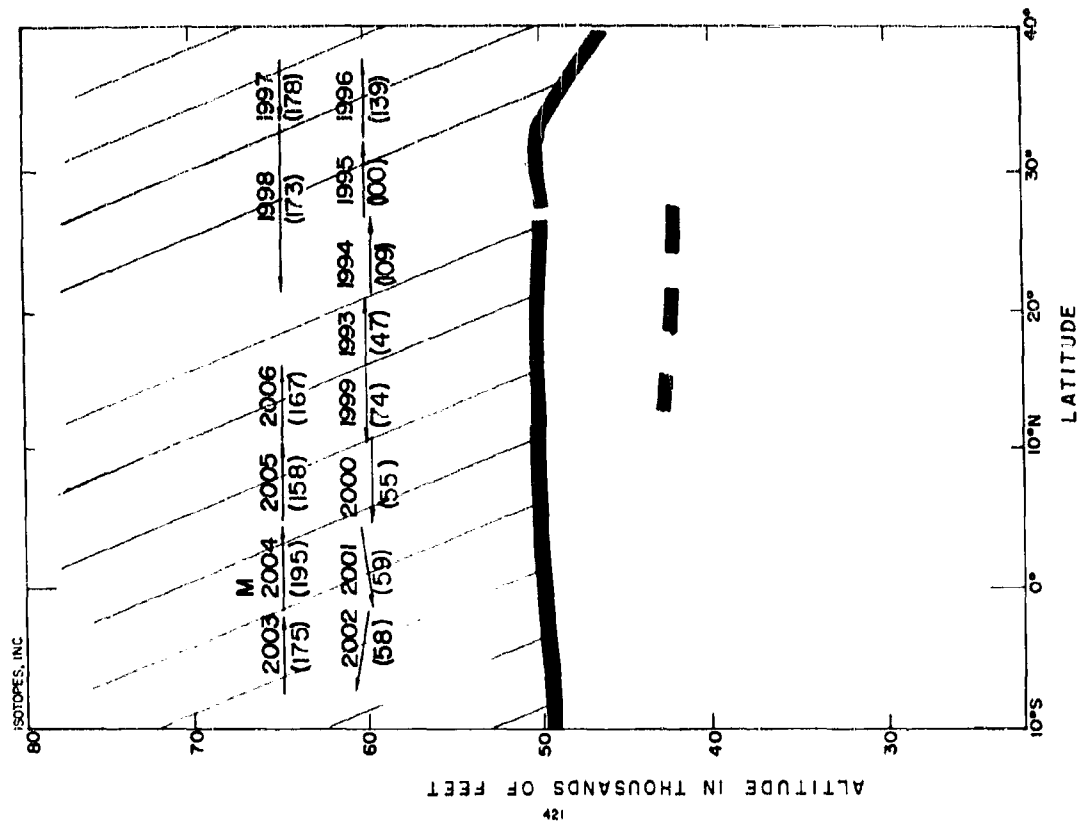


FIGURE 4161 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
					Sr ⁹⁰	W185 (Aug 58)			
4 August 1959 Mission 82									
705 RN	2011	23°N	63.3	14,800	175 ± 2	4370 ± 110	---	---	
	2012	27°N	63.6	16,400	228 ± 3	3710 ± 160	---	---	
	2013	32°N	64.2	16,100	210 ± 4	3000 ± 100	---	---	
	2014	36°N	64.4	16,300	216 ± 1	2100 ± 110	0.7	---	
	2007	35°N	65.3	16,700	188 ± 4	2460 ± 60	0.6	---	
	2008	30°N	65.9	18,300	190 ± 10	4180 ± 70	0.6	---	
	2009	24°N	67.1	14,500	192 ± 5	2790 ± 70	0.8	---	
	2015	24°N	67.1	15,500	184 ± 4	2510 ± 120	1.1	---	
	2010	18°N	67.7	18,300	205 ± 1	2980 ± 100	1.0	---	
	2016	18°N	67.7	14,800	205 ± 2	3690 ± 120	---	---	
714 RS	2021	13°N	65	13,800	172 ± 2	4640 ± 120	---	---	
	2022	7°N	65.6	15,800	178 ± 3	---	---	---	
	2023	1°N	66.5	21,000	262 ± 6	---	0.4	---	
	2024	5°S	67.1	24,000	256 ± 1	---	---	---	
	2017	5°S	67.7	23,000	278 ± 1	8710 ± 380	---	---	
	2018	1°N	68.3	22,000	256 ± 7	8190 ± 130	0.7	---	
	2019	7°N	68.8	27,000	275 ± 12	5240 ± 80	1.2	---	
	2025	7°N	68.8	25,000	284 ± 3	---	---	---	
	2020	13°N	69.7	22,000	273 ± 6	5760 ± 140	0.8	---	
	2026	13°N	69.7	22,000	253 ± 2	5760 ± 180	---	---	
718 ES	2047	38°S	40	1,450	19 ± 1	764 ± 25	---	8.0	
	2048	37°S	40	1,080	18 ± 1	655 ± 20	---	---	
716 ES	2049	38°S	50	1,540	24 ± 1	1174 ± 53	---	---	
	2050	37°S	50	1,990	30 ± 1	1201 ± 32	---	9.4	

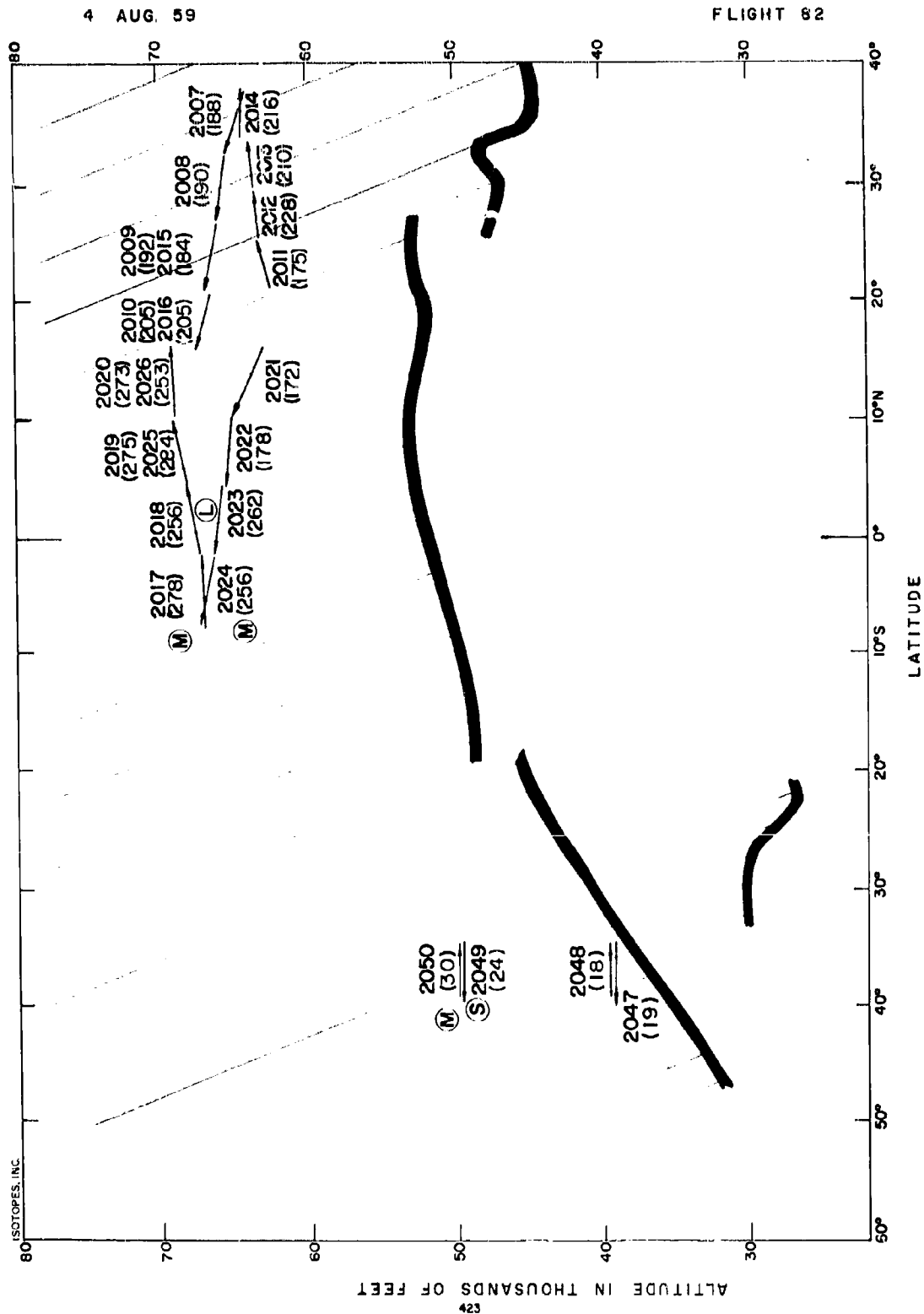


FIGURE 4.162 FLIGHT CROSS SECTION

Table 4. 3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
					Sr90	W185 (Aug 58)			
<u>6 August 1959 Mission 83A</u>									
717	2051	38°S	60	5,500	75 ± 5	3430 ± 110		---	---
ES	2052	37°S	60.5	5,400	76 ± 2	3380 ± 50		---	---
718	2053	38°S	65.3	7,900	118 ± 4	3210 ± 290		---	---
ES	2054	37°S	70.2	17,300	185 ± 1	2370 ± 50		0.6	---

6 AUG. 59

FLIGHT 63A

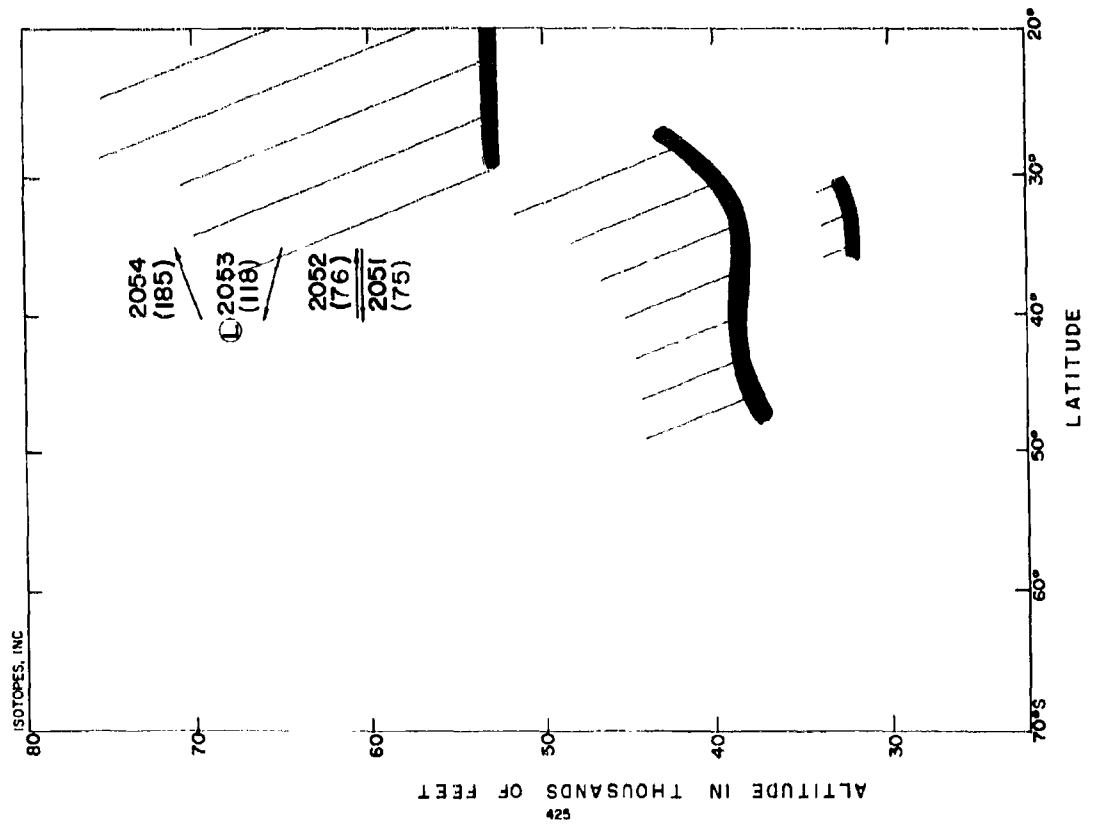


FIGURE 4.163 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
					Sr ⁹⁰	W185 (Aug 58)			
7 August 1959 Missior. 83B									
705 RN	2027	19°N	64.8	13,700	154 ± 4	5910 ± 60	---	---	
	2028	24°N	65	14,500	178 ± 2	3300 ± 100	---	---	
	2029	30°N	65	13,900	182 ± 2	2580 ± 70	---	---	
	2031	30°N	65	16,800	168 ± 4	2860 ± 80	0.8	---	
	2030	35°N	65	14,700	188 ± 2	1900 ± 50	0.6	---	
	2032	35°N	65	15,600	198 ± 4	2100 ± 80	---	---	
	2033	36°N	60	14,100	183 ± 6	4060 ± 140	1.0	---	
	2034	31°N	60	10,900	157 ± 8	3640 ± 80	---	---	
	2035	27°N	60	11,000	140 ± 2	4260 ± 170	2.6	---	
	2036	23°N	60	8,900	126 ± 1	3420 ± 150	---	---	
715 RS	2037	13°N	65	11,800	161 ± 6	5850 ± 330	0.7	---	
	2038	7°N	65	14,800	176 ± 4	7310 ± 330	0.7	---	
	2039	1°N	65	15,700	155 ± 6	6550 ± 340	1.1	---	
	2041	1°N	65	15,700	167 ± 7	7980 ± 290	---	---	
	2040	5°S	65	14,900	155 ± 1	7900 ± 310	0.9	---	
	2042	5°S	65	15,500	165 ± 7	9100 ± 320	1.0	---	
	2043	4°S	60	3,900	49 ± 2	2440 ± 80	---	---	
	2044	1°N	60	5,800	81 ± 3	4310 ± 140	1.2	---	
	2045	7°N	60	5,000	63 ± 1	3000 ± 110	1.6	---	
	2046	13°N	60	5,500	73 ± 1	---	1.4	---	

7 AUG. 59

FLIGHT 83B

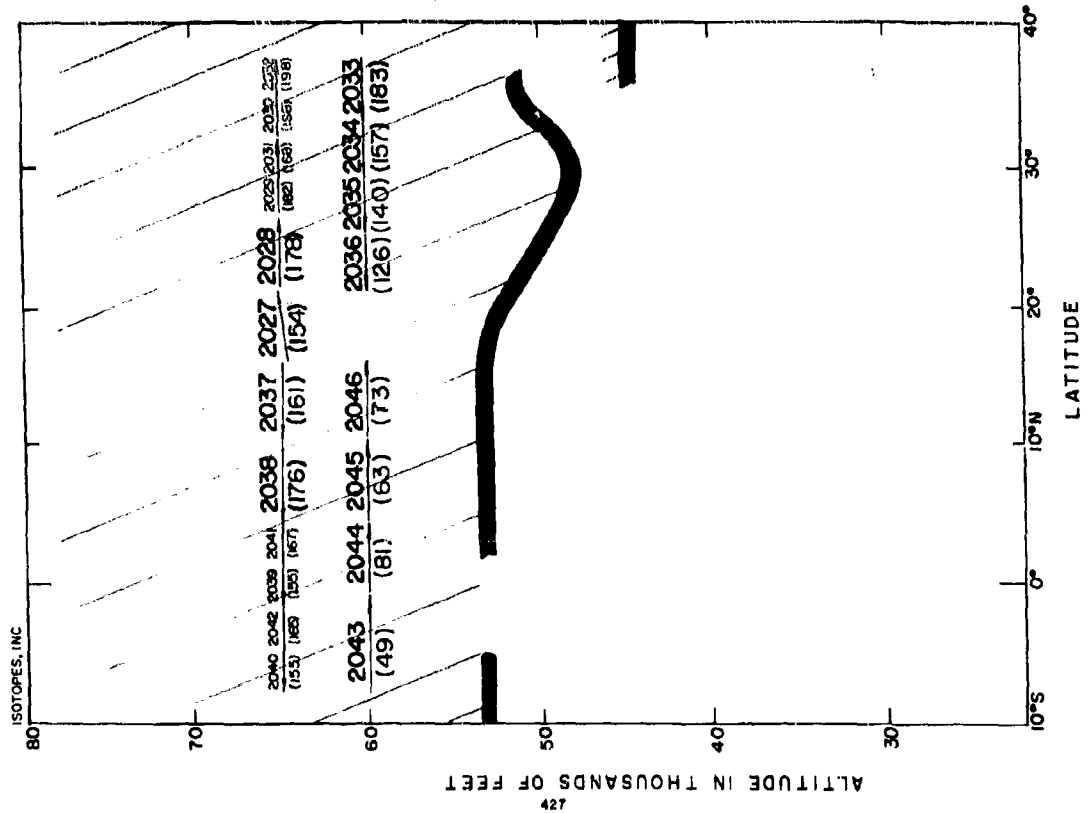


FIGURE 4/164 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HAASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr89 Sr90	Ce 144 Sr90
					Sr90	W185 (Aug 58)		
8 August 1959 Mission								
716 ER	20055	30°S	34					
	20056	26°S						
	20057	22°S	63.3	7,100	89 ± 1	2770 ± 60	---	9.9
	20058	18°S	64	7,300	89 ± 2	1254 ± 87	0.4	9.5
717 ER			64.7	8,500	124 ± 1	4700 ± 60	---	7.4
	20059	14°S	64.8	8,300	110 ± 2	5390 ± 110	---	8.7
	20060	9°S						
	20061	5°S	65.4	13,100	158 ± 3	8490 ± 230	---	8.7
718 ER	20062	1°S	66.1	16,500	203 ± 5	9260 ± 360	---	10
			66.9	18,800	252 ± 12	8580 ± 260	0.9	---
	20063	4°N	67.7	19,900	246 ± 12	7240 ± 140	1.1	---
	20064	8°N						
	20065	12°N	67.7	24,000	292 ± 14	7150 ± 170	---	9.1
	20066	17°N	68.3	20,000	267 ± 5	6330 ± 150	0.6	---
			68.8	21,000	249 ± 5	6840 ± 170	---	10
			68.3	20,000	231 ± 12	6470 ± 140	1.4	---

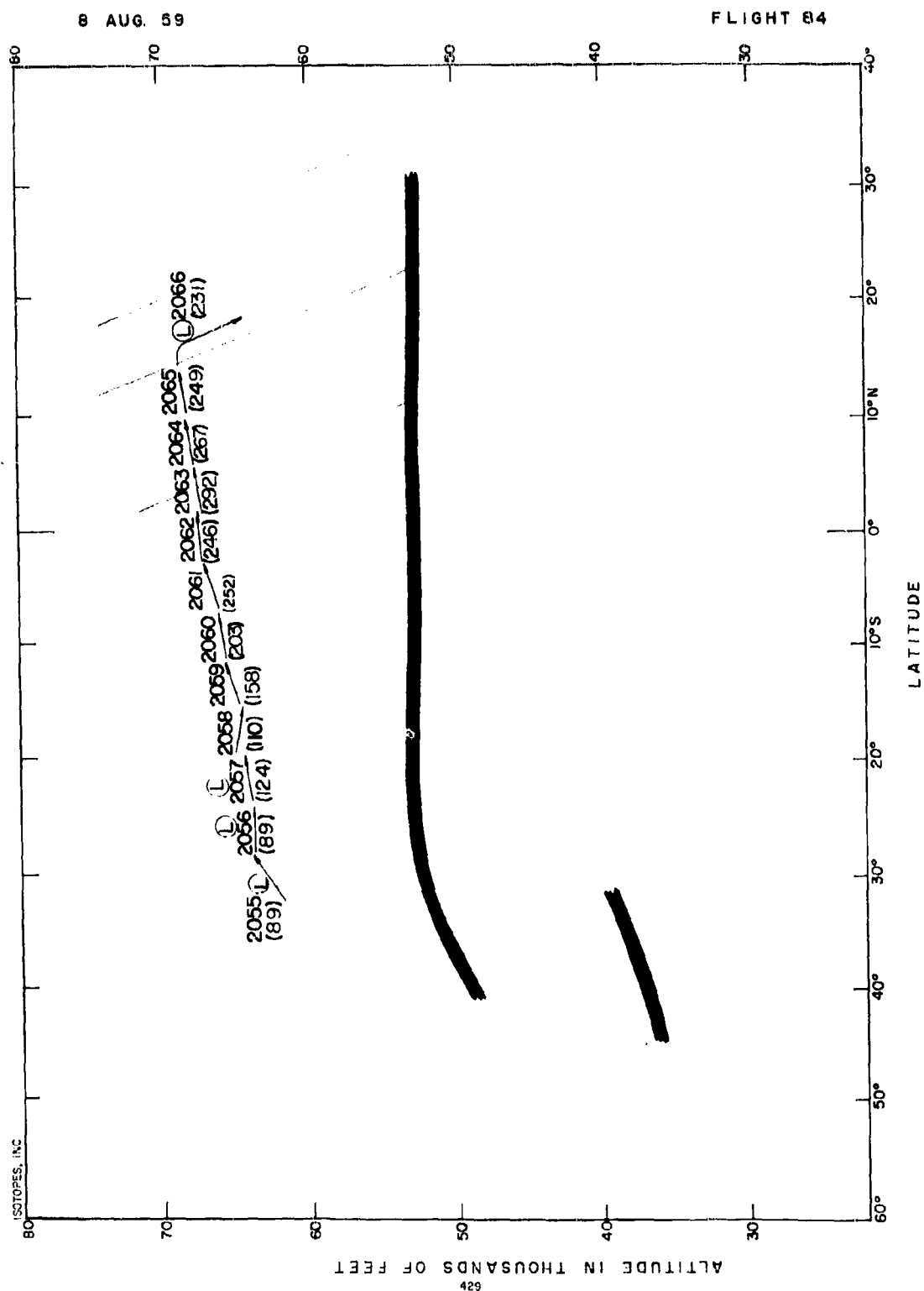


FIGURE 4.165 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF			$\frac{\text{Sr}89}{\text{Sr}90}$	$\frac{\text{Ce}144}{\text{Sr}90}$
					Sr90	W185 (Aug 58)			
21 August 1959 Sea Fish Special No. 7									
370	2067	63°N	34.9	1,880	21 ± 1	608 ± 27	0.1	10	
	2068	68°N	35.5	1,650	19 ± 1	672 ± 38	1.5	---	
	2069	73°N	36.1	1,720	18 ± 1	640 ± 9	---	15	
	2070	78°N	36.7	2,600	34 ± 1	960 ± 45	1.1	---	
	2071	83°N	37.4	2,200	31 ± 1	960 ± 57	0.6	11	
	2341	80°N	36.9	2,400	43 ± 2	---	---	---	
	2072	88°N	37.9	2,900	39 ± 1	1152 ± 48	0.4	13	
	2320	88°N	37.9	3,200	40 ± 2	---	1.2	---	
	2073	88°N	38.8	2,900	28 ± 1	960 ± 9	0.9	12	
	2074	83°N	39.8	3,200	44 ± 2	1536 ± 57	---	12	
	2342	79°N	39.2	2,900	33 ± 1	---	2.7	---	
	2075	78°N	40.4	2,200	29 ± 1	1088 ± 20	0.6	---	
	2076	73°N	41.0	3,400	36 ± 1	1376 ± 18	1.9	9.7	
	2077	68°N	42.0	2,200	25 ± 1	1056 ± 20	0.9	---	
2078	63°N	43.0	2,000	28 ± 1	1280 ± 20	1.1	11		

21 AUG. 59

SEA FISH SPECIAL NO. 7

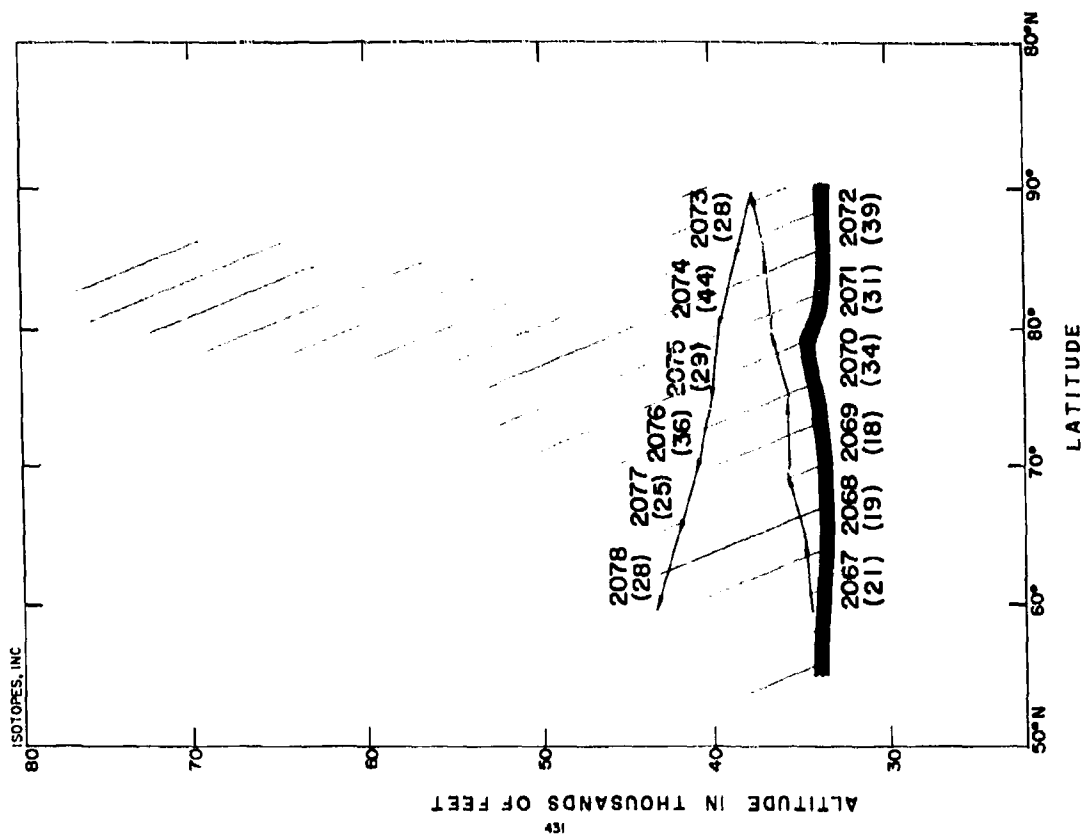


FIGURE 4N66 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
15 September 1959				Mission 1A				
715	2079	53°N	55	8,700	117 ± 5	4240 ± 70	0.4	---
MN	2080	58°N	55	10,000	121 ± 5	3400 ± 30	0.4	---
	2081	63°N	55	8,100	116 ± 1	2920 ± 30	---	---
	2083	63°N	55	9,800	124 ± 5	3760 ± 50	0.4	---
	2082	68°N	55	9,400	126 ± 6	3440 ± 60	0.2	9.7
	2084	68°N	55	9,500	136 ± 5	2800 ± 40	---	11
	2085	68°N	60	13,400	186 ± 2	2040 ± 50	---	7.3
	2086	63°N	60	12,700	188 ± 4	2920 ± 110	---	---
	2087	58°N	60.3	12,800	185 ± 1	1000 ± 50	---	---
	2088	53°N	60.3	12,000	204 ± 33	1640 ± 50	0.2	---
717	2089	53°N	62.5	11,300	124 ± 3	< 200	2.1	---
MN	2090	58°N	64.2	12,200	154 ± 7	320 ± 49	0.4	---
	2091	63°N	65.6	14,900	169 ± 9	280 ± 53	0.8	15
	2093	63°N	65.6	11,500	178 ± 8	1560 ± 90	0.8	---
	2092	68°N	65.8	14,500	185 ± 10	1680 ± 131	0.8	10
718	2098	30°N	62.1	11,400	182 ± 1	2280 ± 90	0.4	---
LN	2099	36°N	63	11,800	186 ± 4	1240 ± 76	0.3	---
	2100	42°N	64.4	12,700	190 ± 5	760 ± 50	---	---
	2102	42°N	64.4	14,000	187 ± 9	880 ± 65	0.5	---
	2101	47°N	65.4	10,600	193 ± 4	< 360	---	---
	2103	47°N	65.4	10,600	194 ± 10	320 ± 61	0.3	---
	2104	47°N	66.5	12,600	229 ± 8	< 320	---	---
	2105	42°N	67.9	12,500	231 ± 4	920 ± 88	---	---
	2106	36°N	68.2	14,500	222 ± 7	880 ± 101	0.4	---
	2107	30°N	69.0	13,800	234 ± 4	2440 ± 100	---	---

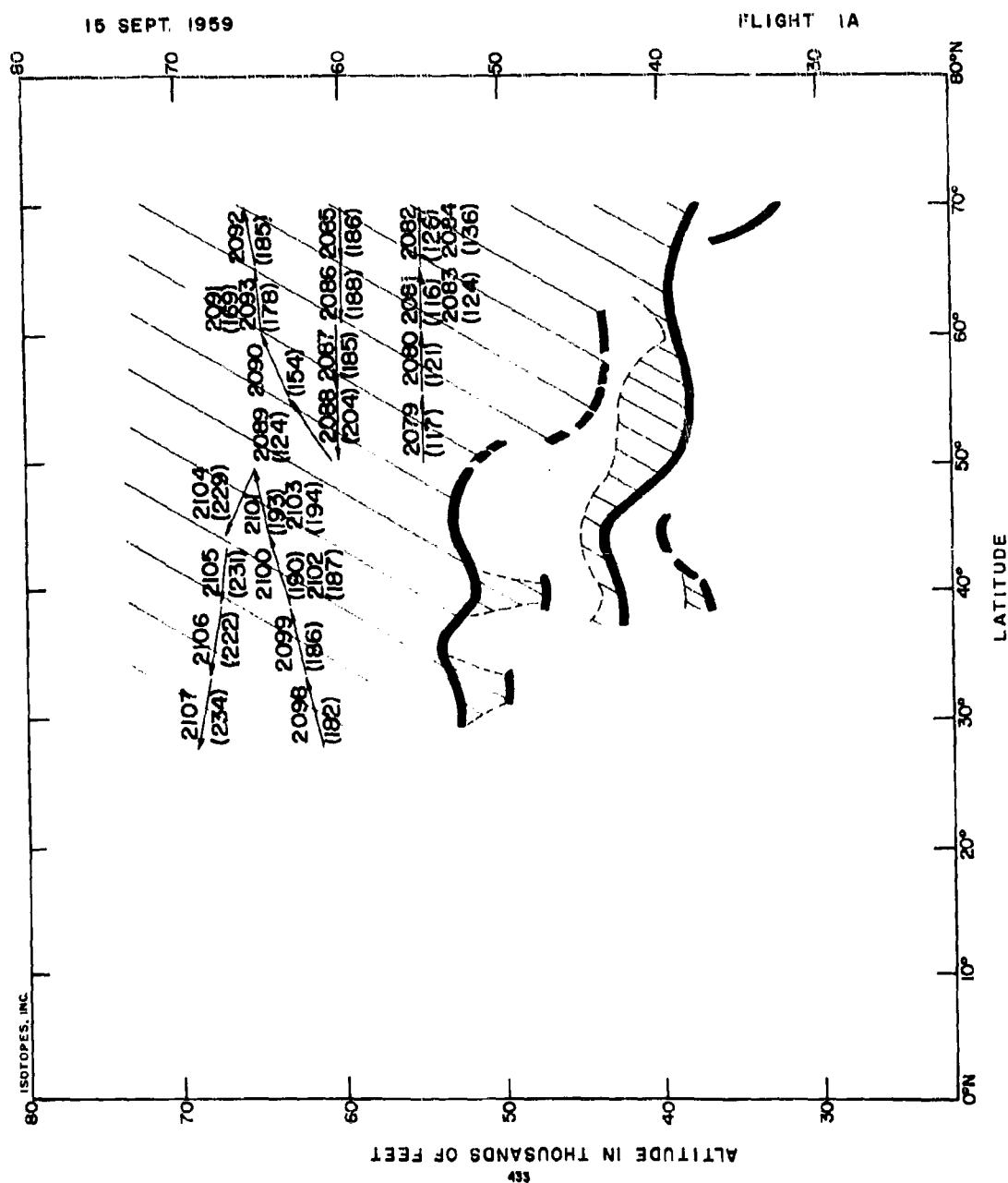


FIGURE 4.167 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>16 September 1959 Mission 1B</u>								
714	2094	26°N	64.8	11,900	169 ± 1	3530 ± 120	0.6	---
LS	2095	23°N	65.4	11,900	177 ± 2	4760 ± 120	0.7	---
	2097	23°N	66	13,800	195 ± 9	5410 ± 120	0.5	---
	2096	23°N	67	14,600	223 ± 11	5170 ± 130	0.6	---

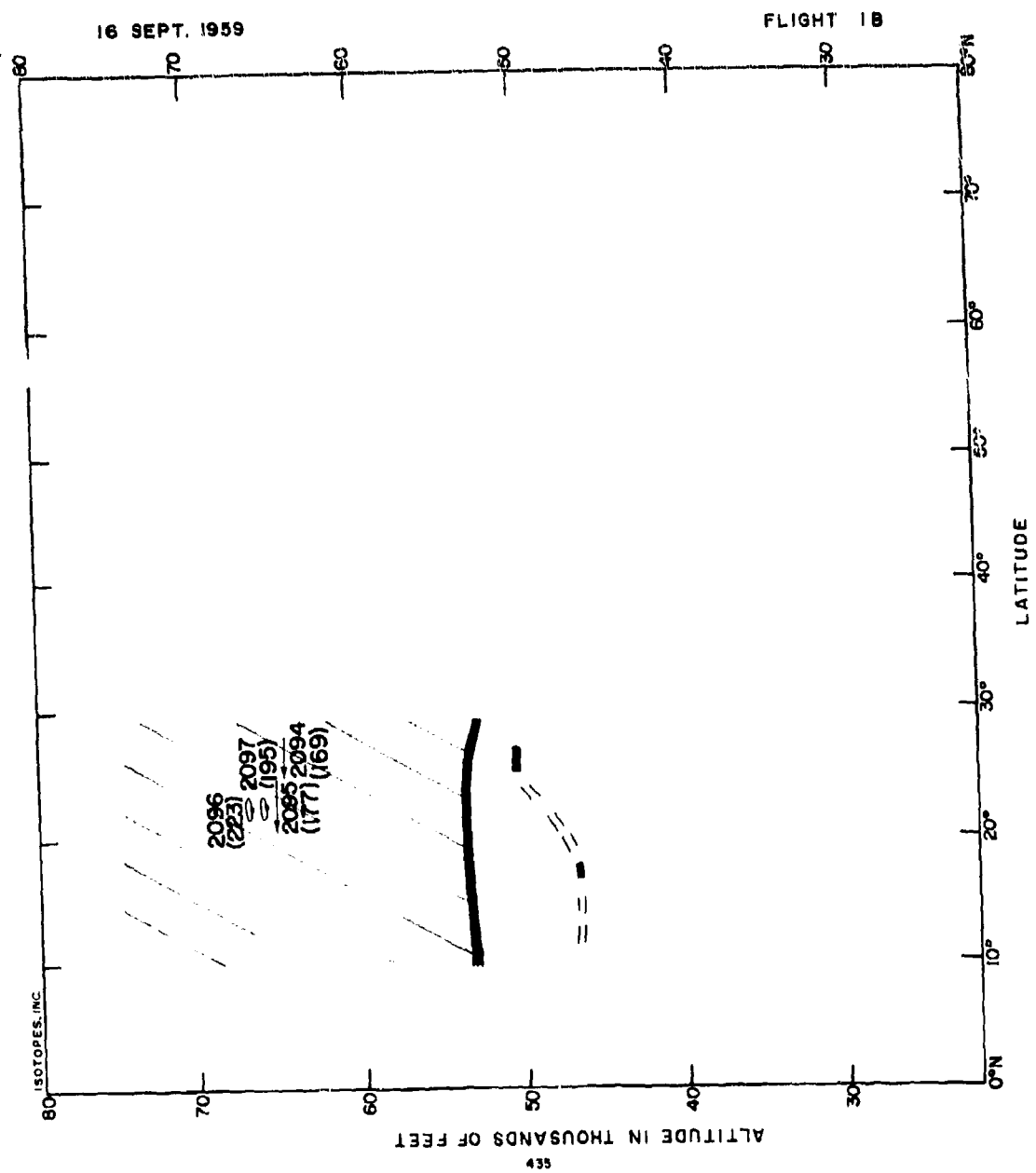


FIGURE 4.168 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
18 September 1959 Mission 2								
715 MN	2108	67°N	55.2	8,000	131 ± 6	---	---	---
	2109	63°N	55	8,600	129 ± 5	---	---	---
	2110	58°N	55	8,400	140 ± 5	---	---	---
	2111	53°N	55	9,000	126 ± 6	---	---	---
717 MN	2112	53°N	60	13,800	230 ± 7	1660 ± 58	---	---
	2113	58°N	60	12,100	184 ± 2	---	1.3	---
	2114	63°N	60	12,000	161 ± 1	2700 ± 90	1.2	---
	2116	63°N	60	12,700	161 ± 3	3240 ± 180	1.0	---
	2115	68°N	60	13,000	188 ± 1	1162 ± 70	---	---
	2117	68°N	60	13,600	214 ± 3	1453 ± 80	---	---
	2118	68°N	65	11,700	170 ± 4	374 ± 79	0.6	---
	2119	63°N	65	14,200	177 ± 3	2320 ± 130	---	---
	2120	58°N	65	14,600	197 ± 1	≤ 249	0.3	---
714 LN	2121	30°N	60	8,500	130 ± 3	---	0.9	---
	2122	36°N	60	10,300	151 ± 2	3360 ± 100	0.4	---
	2123	42°N	60	11,100	166 ± 5	---	0.6	---
	2125	42°N	60	12,200	176 ± 4	3860 ± 80	0.6	---
	2124	47°N	60	11,900	165 ± 5	2080 ± 150	0.4	9.4
	2126	47°N	60	12,100	191 ± 7	2490 ± 50	0.4	---
	2127	47°N	64.7	11,300	175 ± 1	540 ± 58	---	---
	2128	42°N	64.7	13,100	202 ± 1	1162 ± 98	---	---
	2129	36°N	64.5	10,900	165 ± 1	2120 ± 110	0.7	---
	2130	30°N	64.8	12,300	169 ± 3	2030 ± 50	0.3	---
718 LS	2131	26°N	60	7,200	89 ± 5	---	0.8	---
	2132	21°N	60	5,400	70 ± 3	---	0.6	---
	2133	17°N	60	6,000	70 ± 2	2910 ± 180	---	---
	2135	17°N	60	6,200	79 ± 1	3450 ± 80	---	---
	2134	13°N	60	5,000	63 ± 2	5520 ± 150	0.8	---
	2136	13°N	60	5,600	74 ± 1	---	0.3	---
	2137	13°N	64.5	14,700	147 ± 1	---	1.3	---
	2138	17°N	65	12,300	168 ± 2	5520 ± 140	---	---
	2139	21°N	65	11,600	153 ± 3	---	0.3	---
	2140	26°N	65	11,500	151 ± 8	4440 ± 100	0.6	---

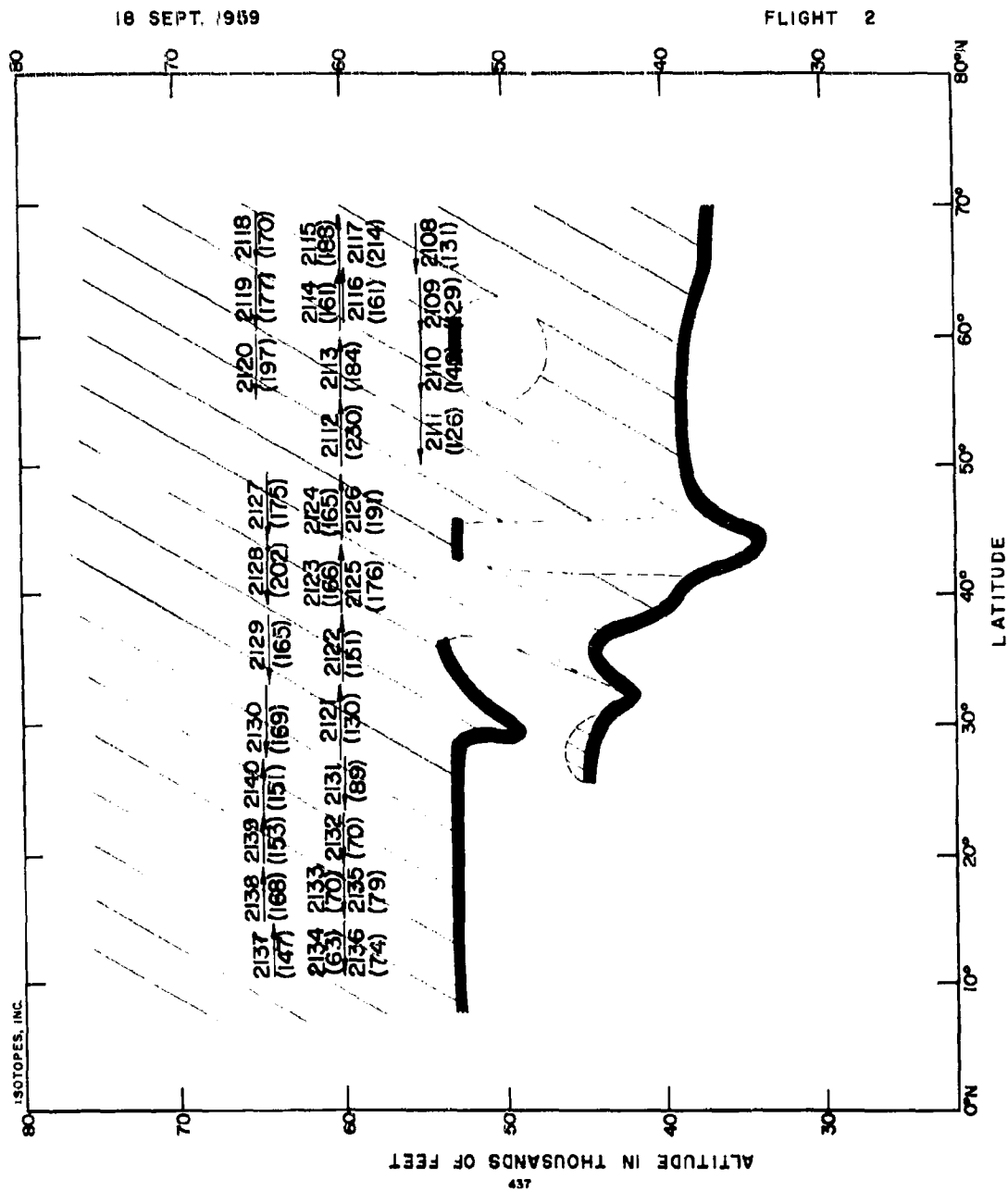


FIGURE 4.169 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
<u>22 September 1959 Mission 3A</u>									
717	2155	52°N	40	1,580	22 $\pm$ 1	989 $\pm$ 38	0.6	---	
MN	2156	55°N	40	1,800	23 $\pm$ 1	1118 $\pm$ 35	---	---	
	2157	58°N	40	2,500	27 $\pm$ 1	1419 $\pm$ 41	0.7	9.7	
	2158	61°N	40	3,000	53 $\pm$ 1	1677 $\pm$ 44	0.2	---	
	2159	64°N	40	3,300	43 $\pm$ 1	---	0.2	---	
	2160	67°N	40	4,800	67 $\pm$ 1	---	---	---	
	2151	66°N	50	6,300	111 $\pm$ 1	3530 $\pm$ 90	---	---	
	2152	62°N	50	8,400	103 $\pm$ 5	2880 $\pm$ 70	0.9	---	
	2153	57°N	50	8,100	135 $\pm$ 1	---	---	---	
	2154	53°N	50	6,500	90 $\pm$ 2	4260 $\pm$ 90	0.3	---	
714	2143	29°N	40	$\leq$ 220	$\leq$ 3	$\leq$ 129	---	---	
LN	2144	32°N	40	$\leq$ 220	$\leq$ 2	$\leq$ 86	---	---	
	2141	42°N	45	1,510	15 $\pm$ 1	774 $\pm$ 26	---	---	
	2142	38°N	45	910	8 $\pm$ 1	473 $\pm$ 24	---	---	
718	2145	30°N	50	750	12 $\pm$ 1	516 $\pm$ 90	---	---	
LN	2146	35°N	50	$\leq$ 570	12 $\pm$ 1	215 $\pm$ 38	---	---	

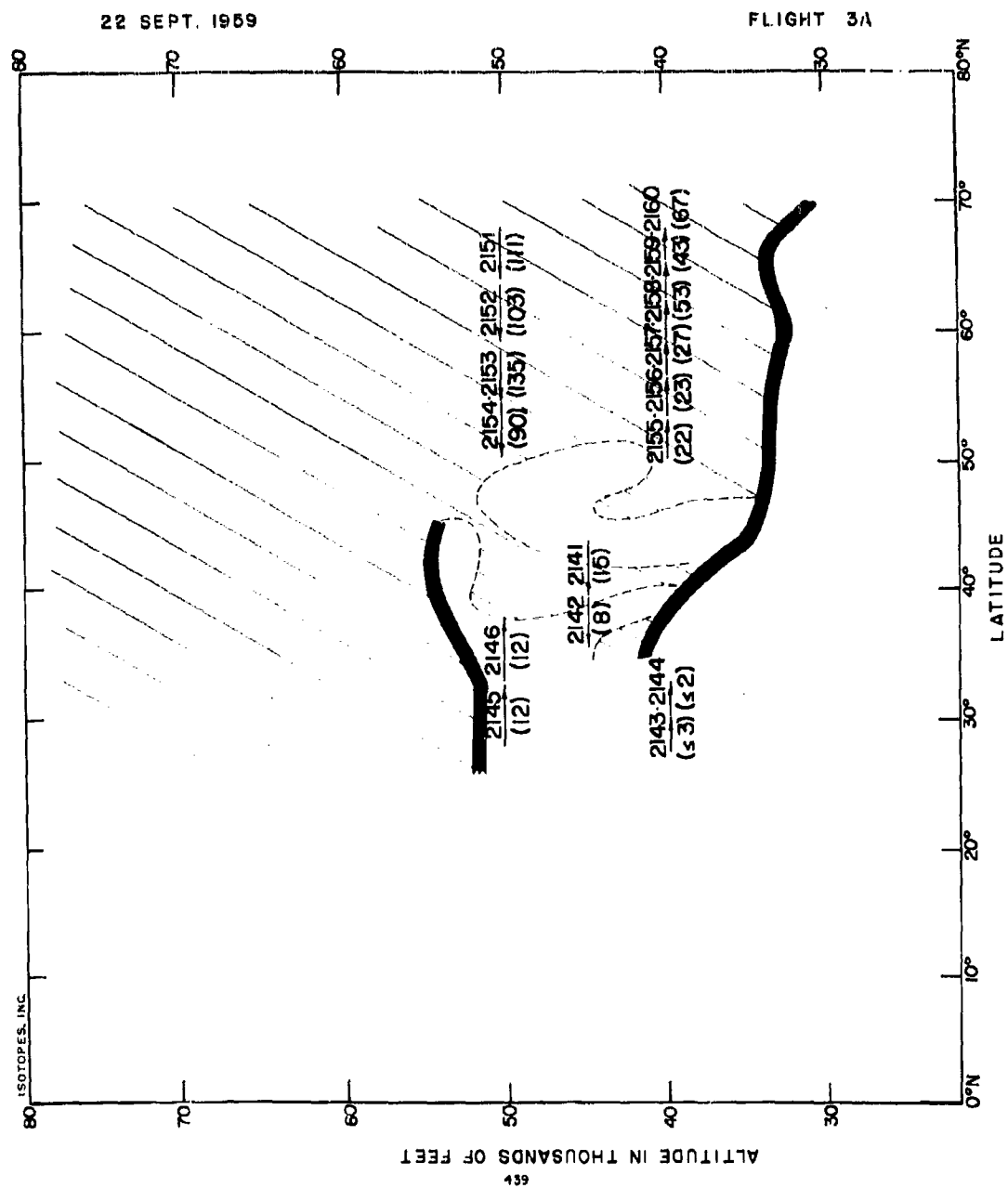


FIGURE 4.170 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>23 September 1959 Mission 3B</u>								
705	2161	30°N	50	1,280	17 ± 1	746 ± 40	0.6	---
LN	2162	35°N	50	1,380	20 ± 1	746 ± 62	1.3	---
	2163	40°N	50	2,600	34 ± 1	≤ 307	---	---
	2164	46°N	50	4,400	66 ± 1	---	0.7	---

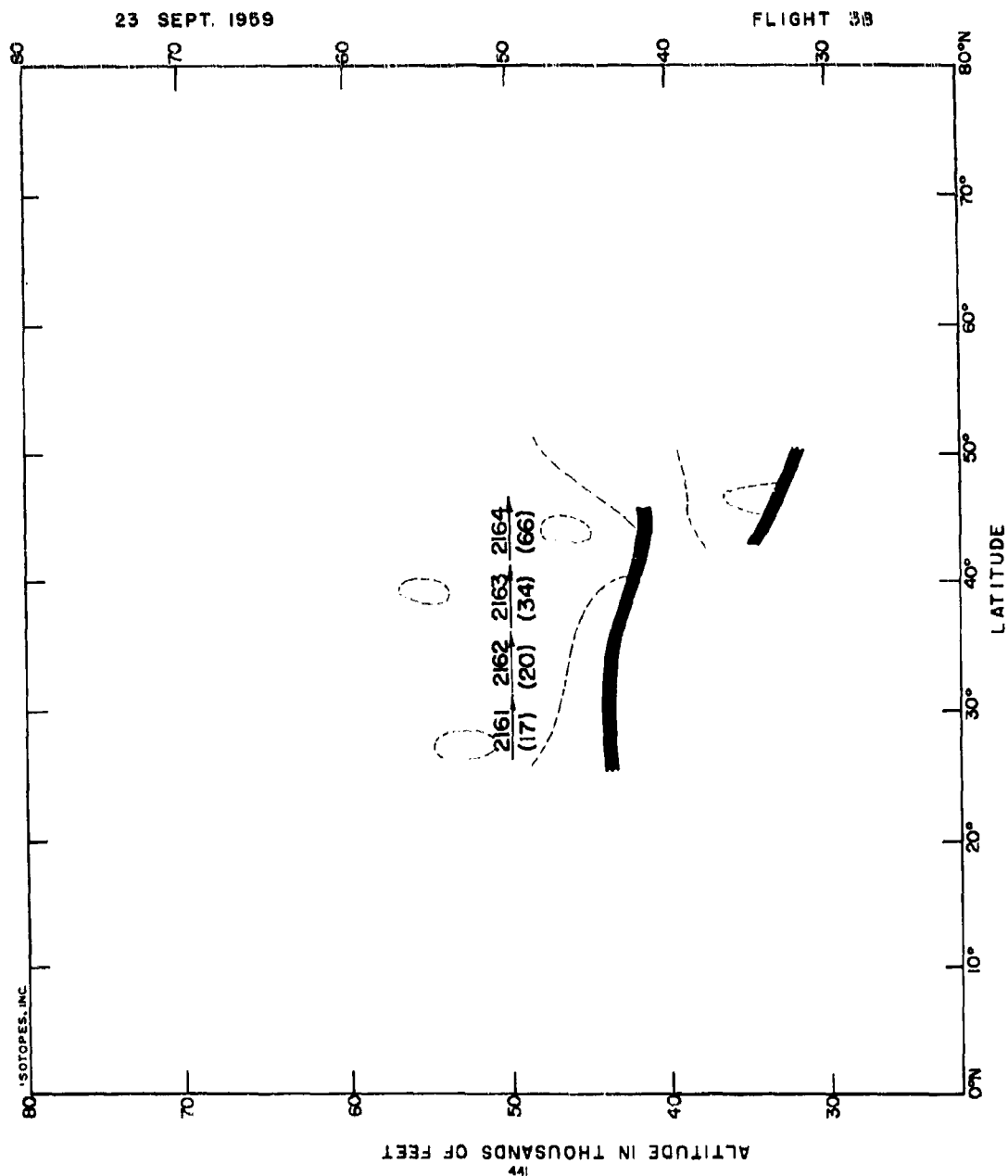


FIGURE 4.171 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>25 September 1959 Mission 4</u>								
718	2165	31°N	64	11,400	206 ± 5	3130 ± 130	---	---
LN	2166	36°N	65	13,300	212 ± 5	3130 ± 210	---	---
	2167	42°N	65.9	13,700	212 ± 4	---	0.2	---
	2168	47°N	66.2	12,000	218 ± 1	1014 ± 214	---	---
705	2169	26°N	63.6	10,500	174 ± 3	4680 ± 110	---	---
LS	2170	22°N	64.9	11,400	153 ± 5	4410 ± 190	---	---
	2171	17°N	65.8	13,100	177 ± 1	---	---	---
	2172	13°N	66.2	14,500	234 ± 23	5070 ± 180	---	---

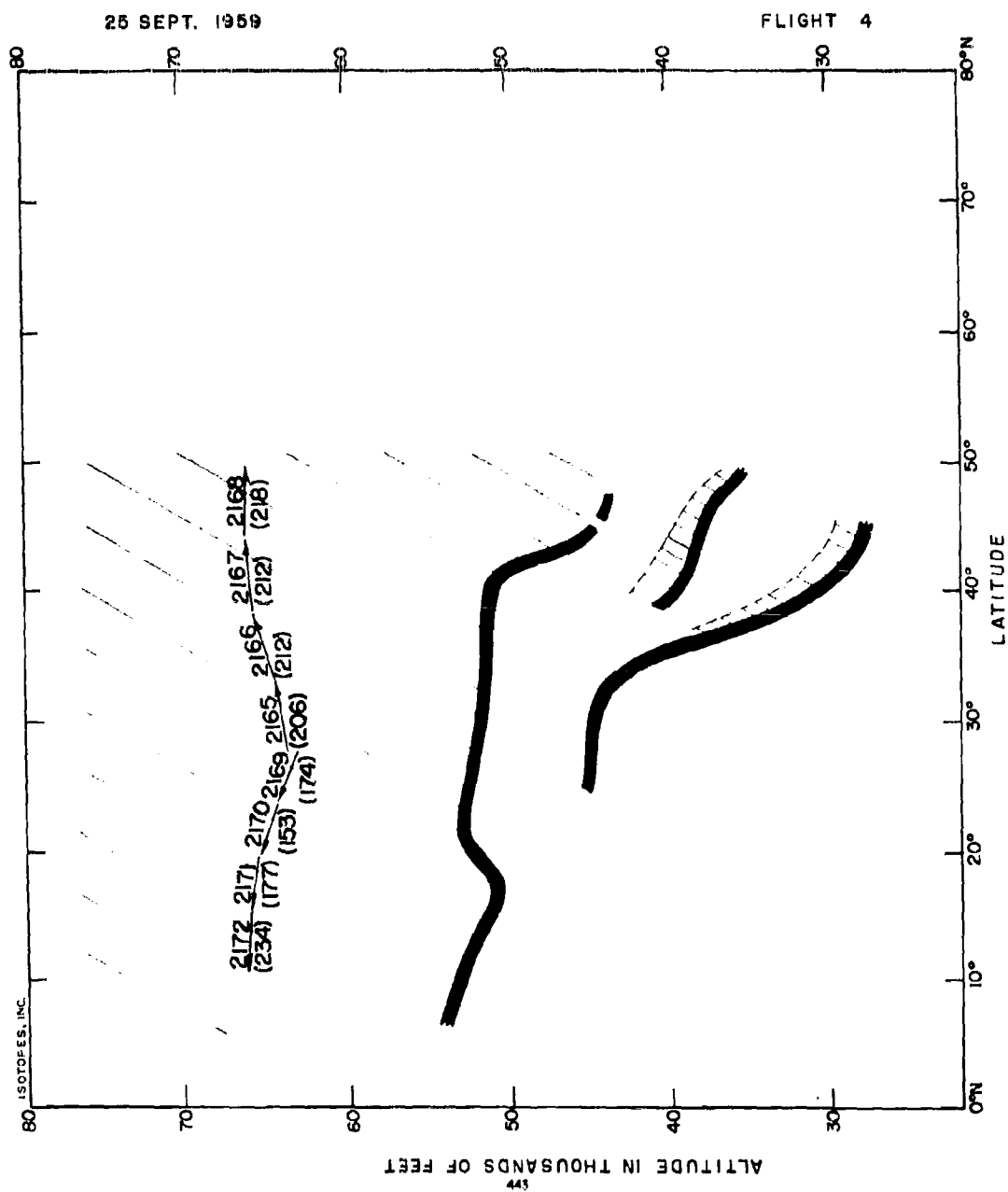


FIGURE 4.172 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>29 September 1959 Mission 5A</u>								
718	2193	30°N	60	8,300	122 $\pm$ 1	4050 $\pm$ 150	---	---
LN	2194	36°N	60	7,300	139 $\pm$ 3	6350 $\pm$ 130	---	---
	2195	42°N	60	10,800	157 $\pm$ 3	3630 $\pm$ 120	0.5	---
	2196	47°N	60	11,200	172 $\pm$ 9	2020 $\pm$ 100	0.6	---
705	2197	26°N	60	7,400	100 $\pm$ 1	---	---	---
LS	2198	22°N	60	7,700	111 $\pm$ 2	---	---	---
	2199	18°N	60	5,900	87 $\pm$ 2	3630 $\pm$ 110	0.8	---
	2200	14°N	60	5,900	88 $\pm$ 2	2070 $\pm$ 60	---	---

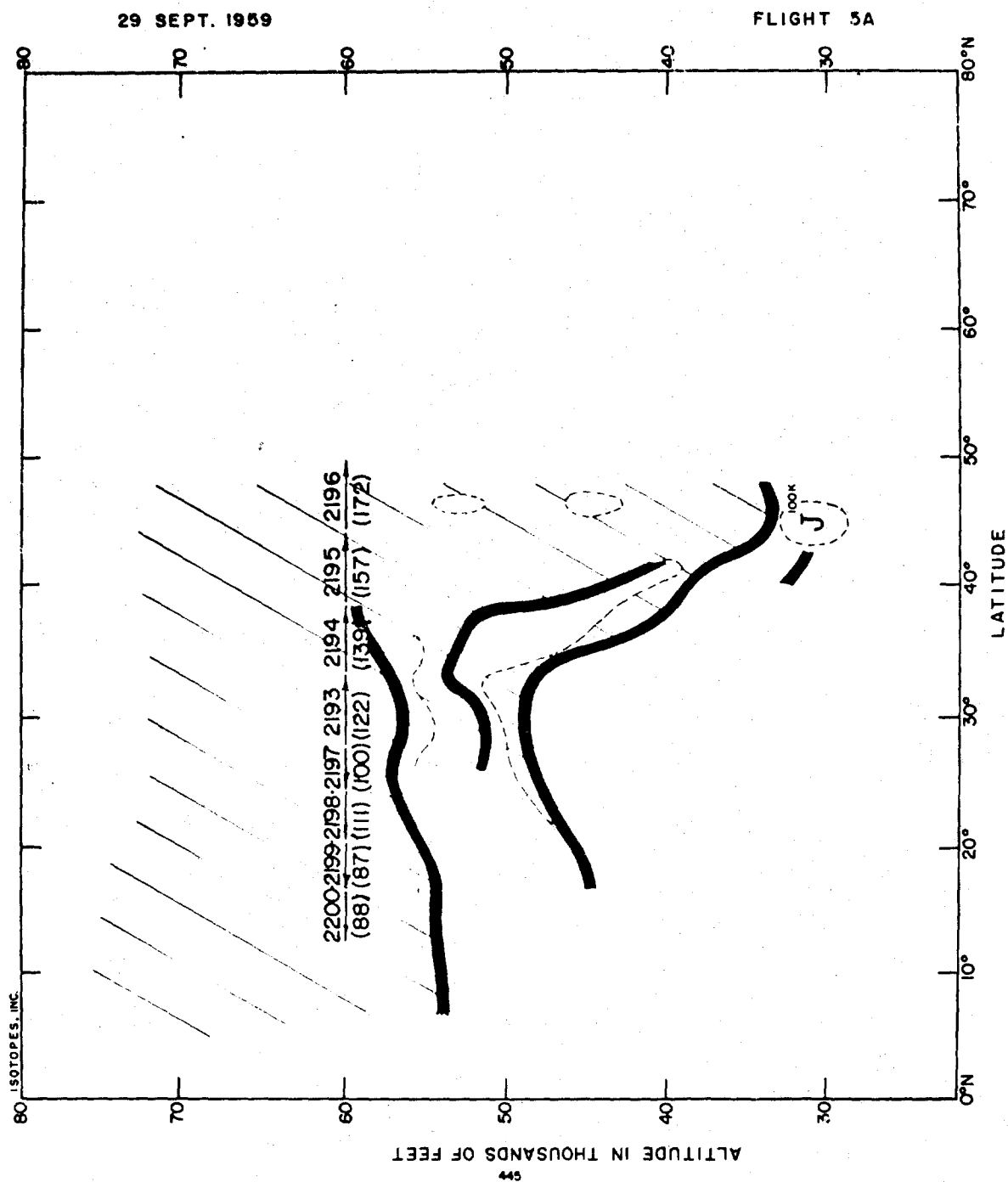


FIGURE 4.173 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>30 September 1959 Mission 5B</u>								
716	2182	52°N	45	380	5 + 1	≤ 138	---	---
MN	2181	55°N	45	1,290	16 + 1	---	1.2	11
	2180	58°N	45	3,200	53 + 1	2710 ± 50	---	---
	2179	61°N	45	5,000	71 + 1	1886 ± 47	0.4	---
	2178	64°N	45	5,100	58 + 1	2390 ± 50	0.6	---
	2177	67°N	45	5,700	70 ± 3	---	1.3	---
	2173	66°N	55	9,900	156 ± 8	---	---	---
	2174	62°N	55	13,200	187 ± 9	2940 ± 130	---	---
	2175	58°N	55	10,500	197 ± 2	3080 ± 100	---	---
	2176	55°N	55	15,600	227 ± 3	4280 ± 170	0.2	---
717	2183	53°N	59.5	12,300	198 + 8	1150 ± 37	0.4	---
MN	2184	58°N	60	12,000	201 + 1	920 ± 52	1.1	---
	2185	63°N	60	12,500	222 ± 3	1242 ± 50	---	---
	2187	63°N	60	15,700	224 ± 5	1334 ± 48	---	---
	2186	68°N	60	13,100	218 ± 1	1196 ± 43	---	---
	2188	68°N	60	12,800	236 ± 2	1196 ± 39	---	---
	2189	68°N	64.5	12,100	214 ± 4	414 ± 123	---	---
	2190	63°N	64.8	12,100	237 ± 4	322 ± 77	---	---
	2191	58°N	65	11,800	201 ± 2	≤ 322	---	---
	2192	53°N	65	13,300	230 ± 2	506 ± 95	1.4	---

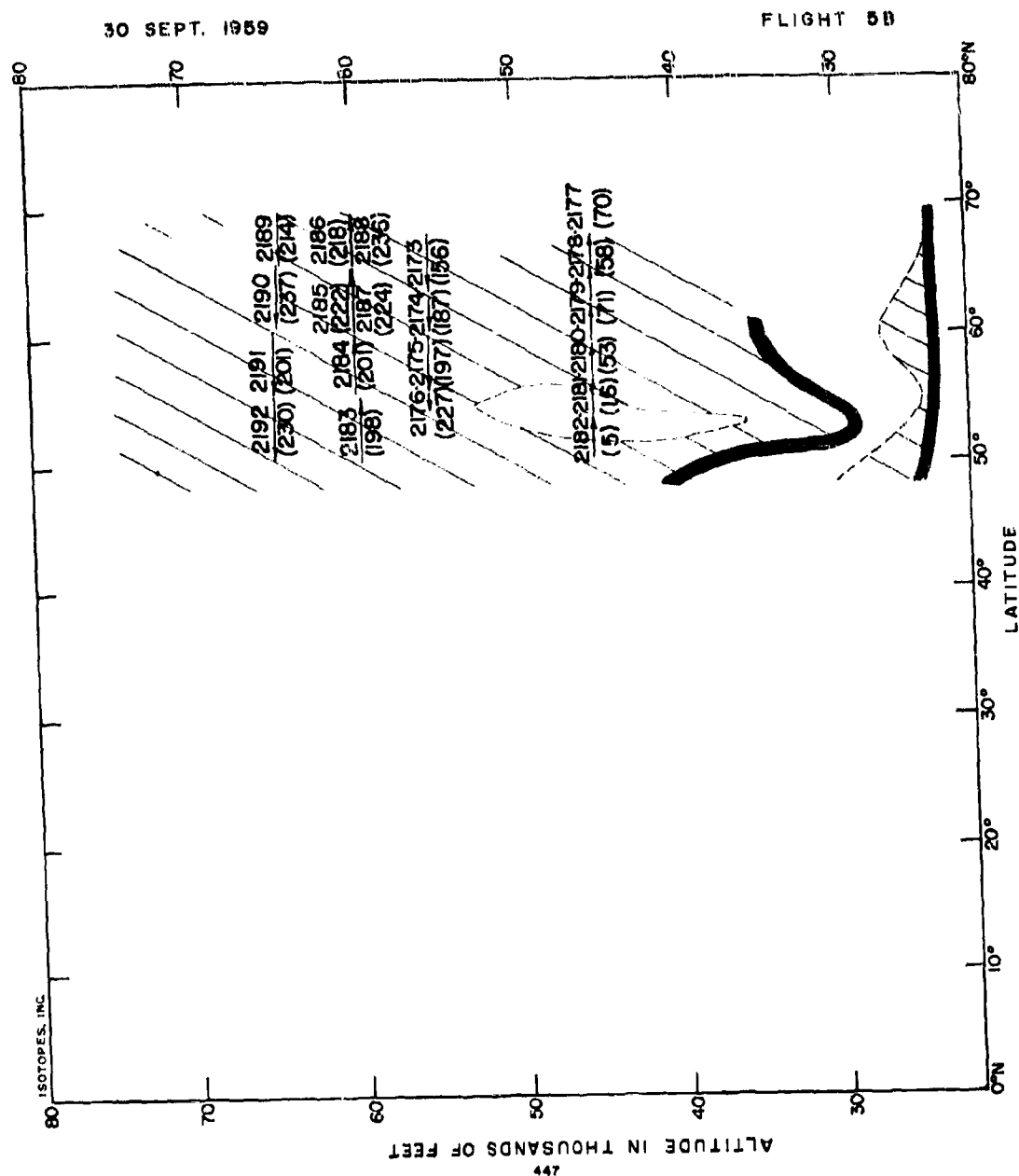


FIGURE 4174 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
1 October 1959 Mission 6A								
705	2221	30°N	40	< 340	4 + 1	235 + 29	---	---
LN	2222	35°N	40	≥ 350	3 ± 1	235 ± 29	---	---
	2223	40°N	40	≥ 120	< 0.9	235 ± 29	---	---
	2224	45°N	40	1,900	22 ± 1	235 ± 29	---	---
718	2225	30°N	50	≤ 340	3 + 1	94 + 24	---	---
LN	2226	35°N	50	3,300	43 ± 1	1457 ± 80	---	---
	2227	40°N	50	5,800	88 ± 1	---	0.3	---
	2228	45°N	50	5,800	76 ± 1	---	1.9	---

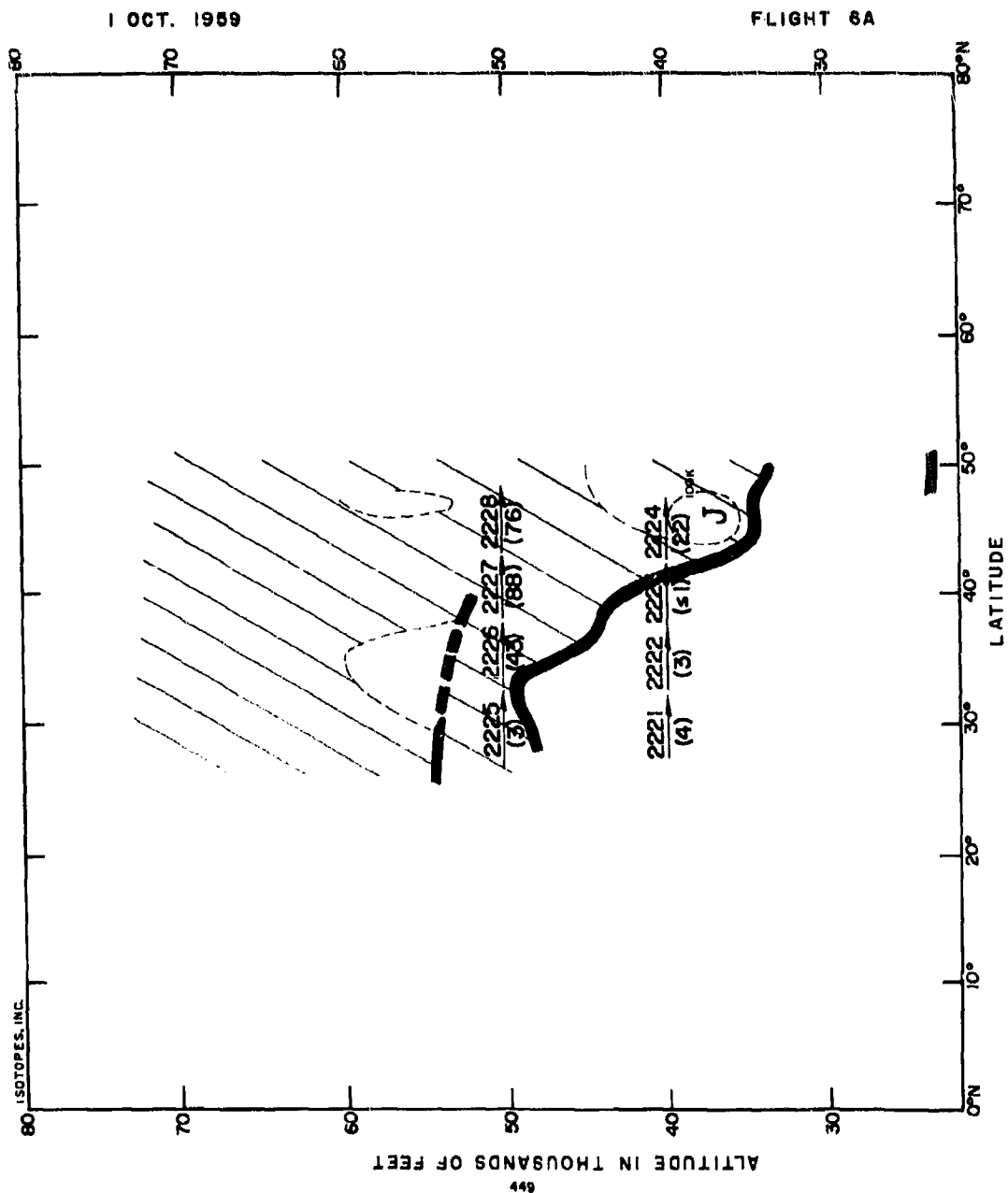


FIGURE 4.175 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASF	Lat.	Alt.	Total	Sr90	W185	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr90	Sr90
2 October 1959 Mission 6B								
717	2205	51°N	30	670	7 ± 1	143 ± 16	0.2	---
MN	2206	54°N	30	< 102	< 0.7	143 ± 16	> 1.7	---
.	2207	56°N	30	< 174	< 0.7	143 ± 16	> 3.1	---
	2208	58°N	30	< 230	< 0.8	143 ± 16	> 3.4	---
	2209	59°N	30	< 360	3 ± 1	143 ± 16	0.5	---
	2210	61°N	30	680	10 ± 1	143 ± 16	0.3	---
	2201	59°N	35	< 179	1.4 ± 0.3	< 95	---	---
	2202	57°N	35	< 450	< 3	< 95	---	---
	2203	55°N	35	< 370	< 0.9	< 95	---	---
	2204	52°N	35	< 620	5 ± 1	< 95	---	---
716	2215	52°N	40	1,640	23 ± 1	238 ± 17	---	---
MN	2216	55°N	40	< 250	1.6 ± 0.1	238 ± 17	---	---
	2217	58°N	40	< 330	2 ± 1	238 ± 17	---	---
	2218	61°N	40	1,110	14 ± 1	238 ± 17	---	---
	2219	63°N	40	< 460	2 ± 1	238 ± 17	---	---
	2220	66°N	40	< 360	3 ± 1	238 ± 17	---	---
	2211	65°N	50	3,600	48 ± 1	2090 ± 80	1.2	---
	2212	60°N	50	3,100	38 ± 1	1520 ± 213	---	---
	2213	57°N	50	3,100	38 ± 1	1188 ± 46	1.5	---
	2214	52°N	50	3,500	44 ± 1	1520 ± 135	---	---

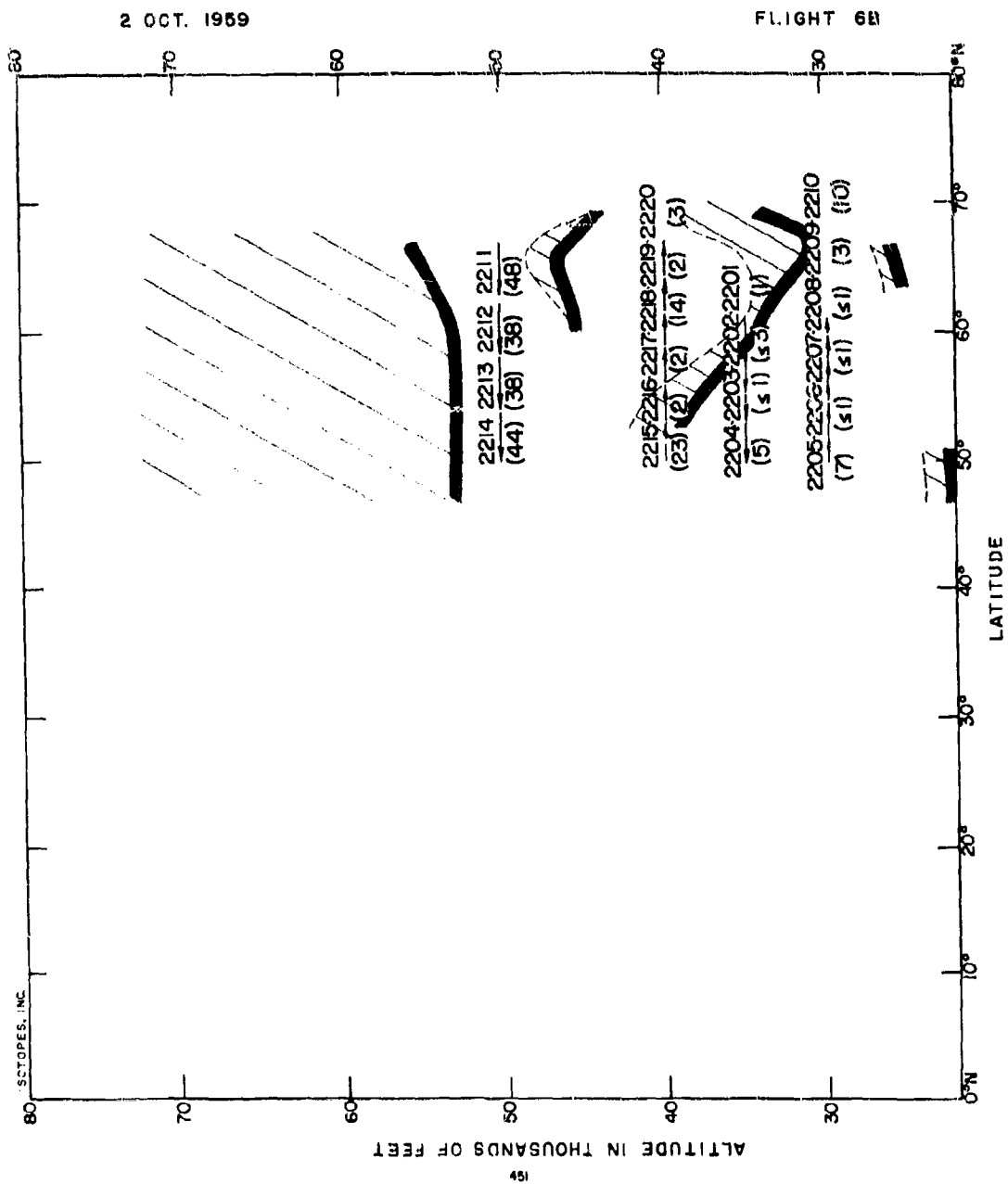


FIGURE 4.176 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
6 October 1959 Mission 7								
716	2233	53°N	55	9,900	216 ± 7	---	---	---
MN	2234	58°N	55	9,700	210 ± 7	---	---	---
	2235	63°N	55	11,300	235 ± 6	---	0.2	---
	2236	68°N	55	11,700	281 ± 7	---	---	---
	2229	68°N	60	10,300	201 ± 1	441 ± 60	---	---
	2237	68°N	60	13,000	303 ± 1	---	---	---
	2230	63°N	60	13,400	210 ± 3	833 ± 72	---	---
	2238	63°N	60	11,500	297 ± 9	1127 ± 87	---	---
	2231	58°N	60	12,500	223 ± 3	2160 ± 50	---	---
	2232	58°N	60	12,000	242 ± 11	---	0.3	---
715	2239	53°N	64.3	9,800	160 ± 7	< 343	0.5	---
MN	2240	58°N	65.5	11,200	177 ± 2	1519 ± 316	0.5	---
	2241	63°N	66	10,000	162 ± 1	< 343	---	---
	2243	63°N	66	12,100	184 ± 3	< 245	---	---
	2242	68°N	66.7	8,700	162 ± 1	< 196	---	---
	2244	68°N	66.7	9,500	153 ± 2	< 196	---	---
	2245	68°N	67.4	11,100	169 ± 1	< 245	---	---
	2246	63°N	67.9	10,900	173 ± 1	< 147	0.7	---
	2247	58°N	68.6	11,400	195 ± 3	490 ± 68	---	---
	2248	53°N	69.5	11,800	155 ± 4	< 343	---	---
714	2249	30°N	66.2	11,100	208 ± 6	1372 ± 81	---	---
LN	2250	36°N	66.4	12,100	194 ± 3	1911 ± 73	0.5	---
	2251	42°N	67	13,500	221 ± 4	3190 ± 270	0.2	---
	2253	42°N	67	14,300	242 ± 37	---	0.3	---
	2252	47°N	67.4	11,300	186 ± 1	< 5000	0.2	---
	2254	47°N	67.4	11,000	225 ± 6	1666 ± 100	---	---
	2255	47°N	68.1	15,200	239 ± 9	980 ± 11	0.3	---
	2256	42°N	68.7	13,100	237 ± 11	3970 ± 130	0.1	---
	2257	36°N	69.8	12,300	214 ± 1	735 ± 8	---	---
	2258	30°N	70.6	12,900	235 ± 4	1225 ± 110	---	---
705	2259	26°N	63.1	10,300	174 ± 1	---	---	---
LS	2260	22°N	64.8	10,400	161 ± 1	3530 ± 80	0.9	---
	2261	18°N	65.1	11,500	168 ± 1	---	---	---
	2262	14°N	65.7	13,400	140 ± 4	3720 ± 240	---	1.9

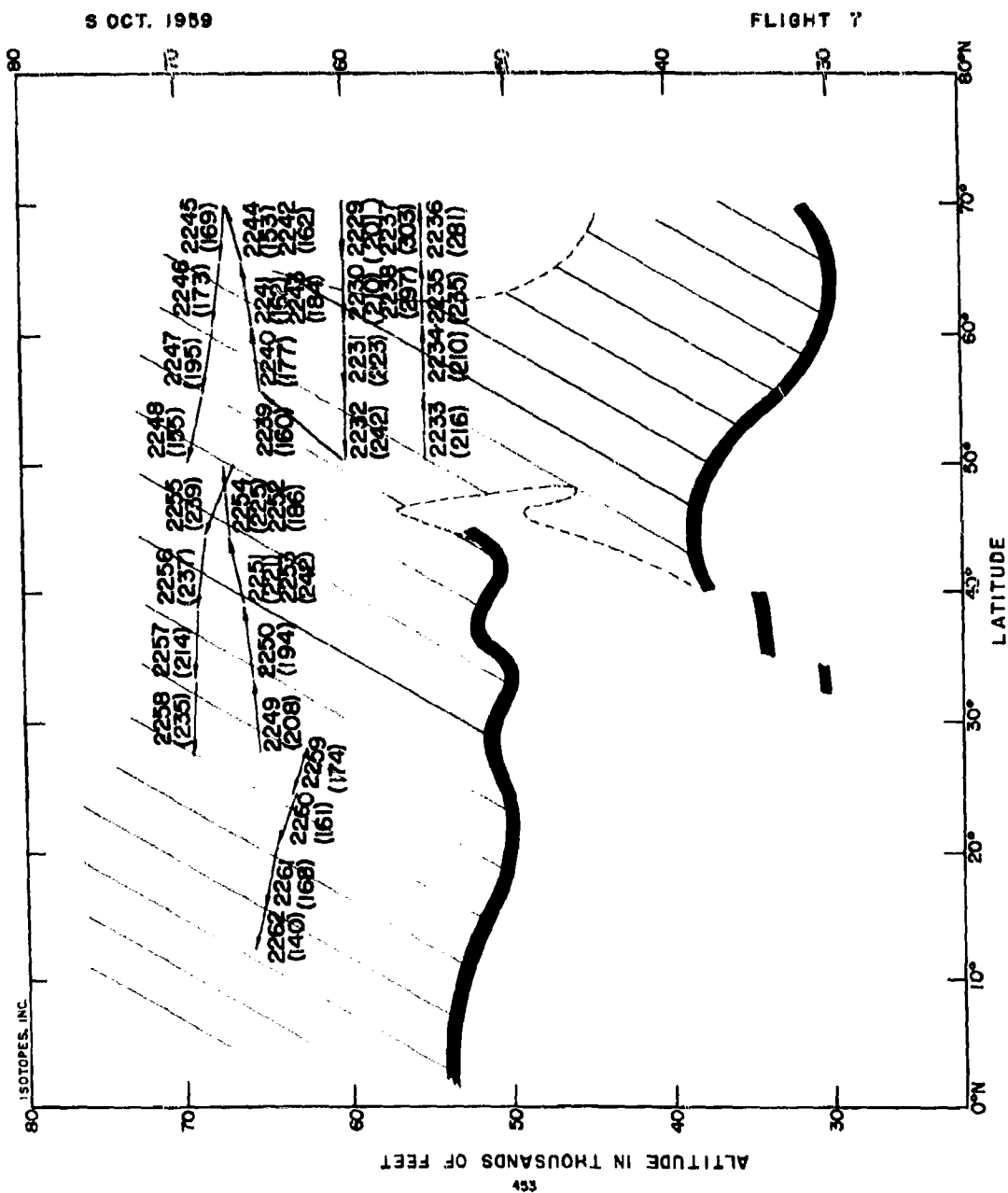


FIGURE 4.177 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
<u>8 October 1959 Mission 8A</u>								
705	2276	31°N	60	8,000	126 ± 2	3150 ± 140	---	---
LN	2277	36°N	60	8,000	155 ± 3	3450 ± 120	---	---
	2278	42°N	60	10,200	168 ± 8	2100 ± 130	---	---
	2279	47°N	60	10,700	168 ± 8	1550 ± 99	1.2	---
714	2280	26°N	60	8,000	123 ± 3	2350 ± 110	---	---
LS	2281	22°N	60	8,000	124 ± 1	2800 ± 110	---	---
	2282	18°N	60	6,800	95 ± 1	2650 ± 110	---	---
	2284	19°N	60	8,200	97 ± 1	3550 ± 60	---	---
	2283	14°N	60	5,400	66 ± 2	3400 ± 60	---	---
	2285	14°N	60	5,900	62 ± 12	2500 ± 60	---	---
	2286	14°N	65	8,100	140 ± 2	---	1.1	---
	2287	18°N	65	8,300	142 ± 2	4050 ± 100	---	---
	2288	22°N	65	7,900	169 ± 2	3600 ± 90	---	---
	2289	26°N	65	8,600	41 ± 5	1050 ± 105	---	---

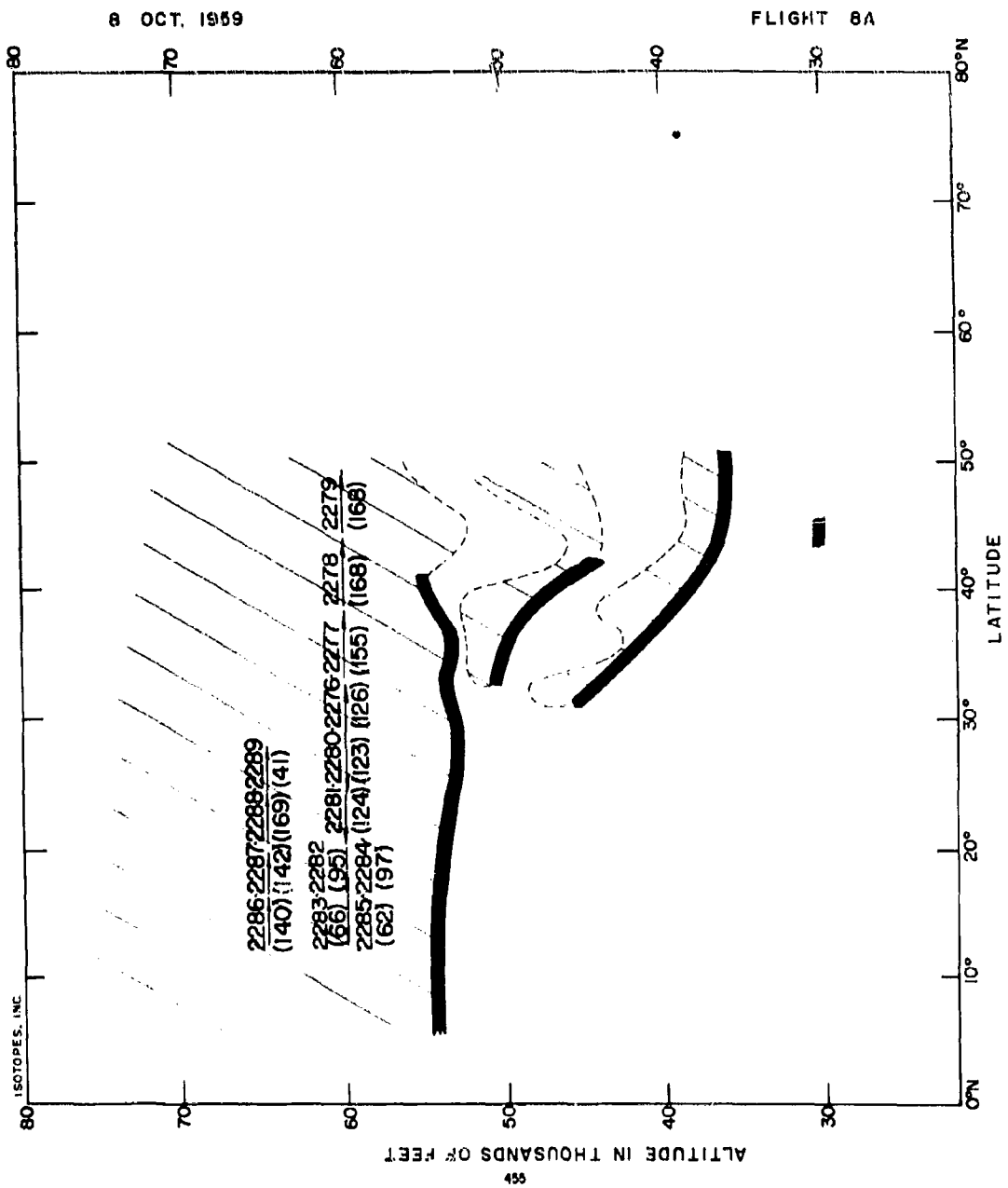


FIGURE 4.178 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
9 October 1959 Mission 8B								
715	2266	48°N	30	< 250	0.7 ± 0.2	< 51	---	---
MO	2264	48°N	40	1,990	29 ± 1	---	0.5	---
	2265	48°N	50	6,700	104 ± 1	---	---	---
717	2267	47°N	45	4,100	71 ± 2	1818 ± 122	---	---
MO	2271	47°N	45	4,800	55 ± 2	---	0.9	---
	2268	47°N	50	7,900	120 ± 1	---	0.4	---
	2272	47°N	50	8,100	115 ± 4	---	---	---
	2269	47°N	55	9,900	182 ± 4	---	---	---
	2273	47°N	55	10,700	180 ± 6	---	---	---
	2270	47°N	60	11,600	200 ± 2	2170 ± 100	0.3	---
	2274	47°N	60	12,300	227 ± 7	2530 ± 120	---	---
	2275	48°N	64	15,000	257 ± 4	1717 ± 130	---	---

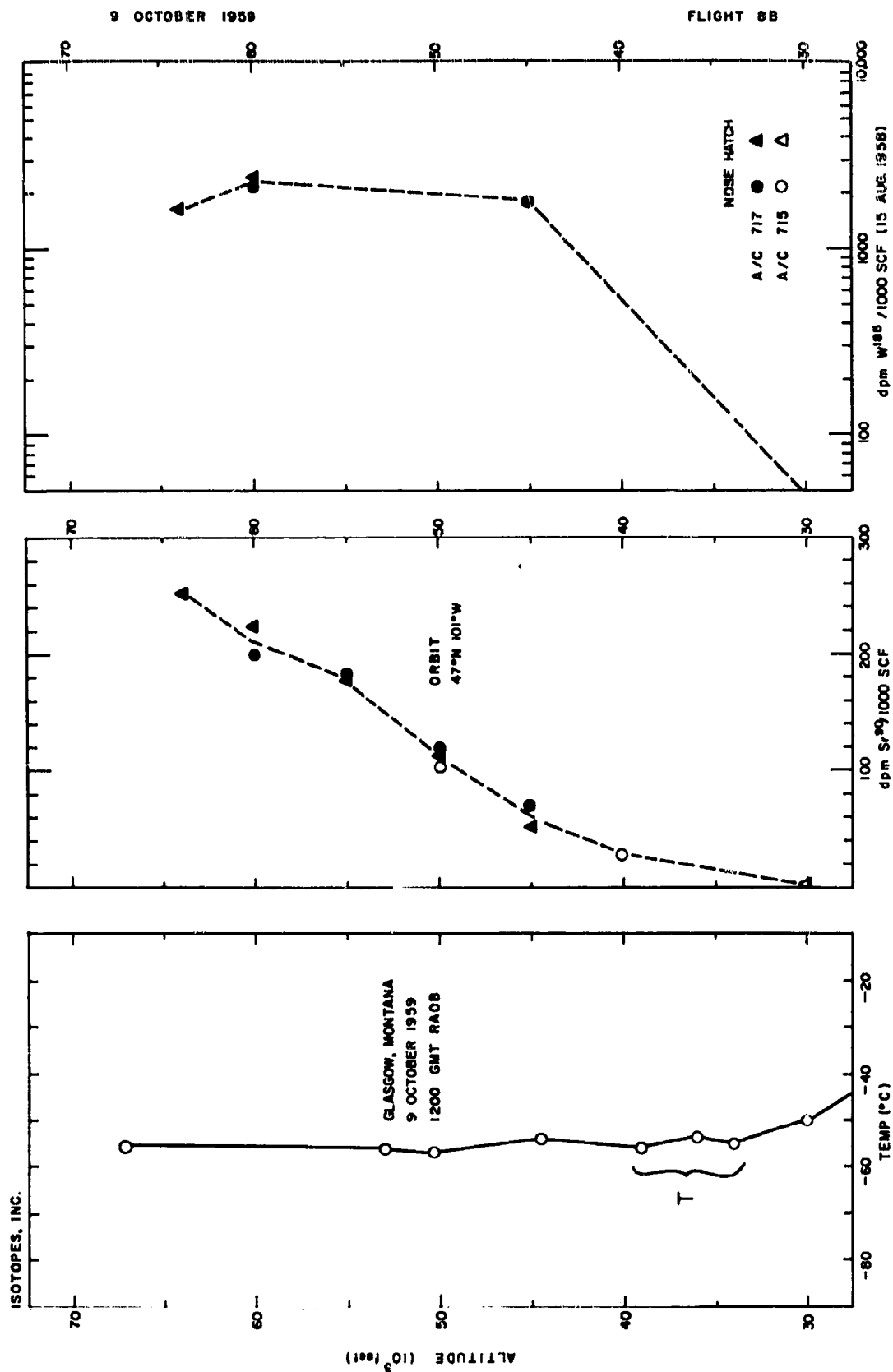


FIGURE 4.179 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
13 October 1959 Mission 9								
717	2292	51°N	30	280	1.3 ± 0.3	52 ± 15	2.4	---
MN	2293	53°N	30	150	<1.2	52 ± 15	> 2.8	---
	2294	55°N	30	330	3 ± 1	52 ± 15	1.2	---
	2295	56°N	30	550	4 ± 1	52 ± 15	0.9	---
	2296	59°N	30	670	6 ± 1	52 ± 15	0.6	---
	2297	61°N	30	380	2 ± 1	52 ± 15	1.3	---
	2290	60°N	35	1,200	36 ± 1	1092 ± 49	---	---
	2291	54°N	35	250	28 ± 1	676 ± 19	---	---
716	2302	52°N	40	2,600	40 ± 1	1680 ± 49	---	---
MN	2303	55°N	40	2,800	50 ± 1	1612 ± 39	0.4	---
	2304	58°N	40	3,100	40 ± 1	---	1.7	---
	2305	60°N	40	2,300	36 ± 1	1300 ± 55	1.0	---
	2306	64°N	40.5	2,500	32 ± 1	1664 ± 238	1.4	---
	2298	65°N	50	8,200	111 ± 1	---	---	---
	2299	61°N	50	8,300	115 ± 1	2910 ± 80	---	---
	2300	57°N	50	4,000	66 ± 1	2080 ± 80	---	---
	718	2345	30°N	45	290	7 ± 1	260 ± 33	---
LN	2346	35°N	45	420	1.9 ± 0.9	260 ± 33	---	---
	2347	40°N	45	560	6 ± 1	260 ± 33	---	---
	2348	45°N	45	1,170	15 ± 1	260 ± 33	---	---
	714	2349	30°N	50	1,090	12 ± 1	520 ± 23	0.4
LN	2350	35°N	50	620	5 ± 1	520 ± 23	1.0	---
	2351	40°N	50	1,250	14 ± 1	520 ± 23	0.3	---
	2353	40°N	50	1,570	19 ± 1	832 ± 38	---	---
	2352	46°N	50	4,000	66 ± 1	2030 ± 40	---	---
	2354	46°N	50	4,700	71 ± 1	---	---	---
	2355	46°N	55	8,400	129 ± 3	2180 ± 80	---	---
	2356	40°N	55	6,300	88 ± 1	---	---	---
	2357	35°N	55	3,600	53 ± 2	1976 ± 71	0.6	---

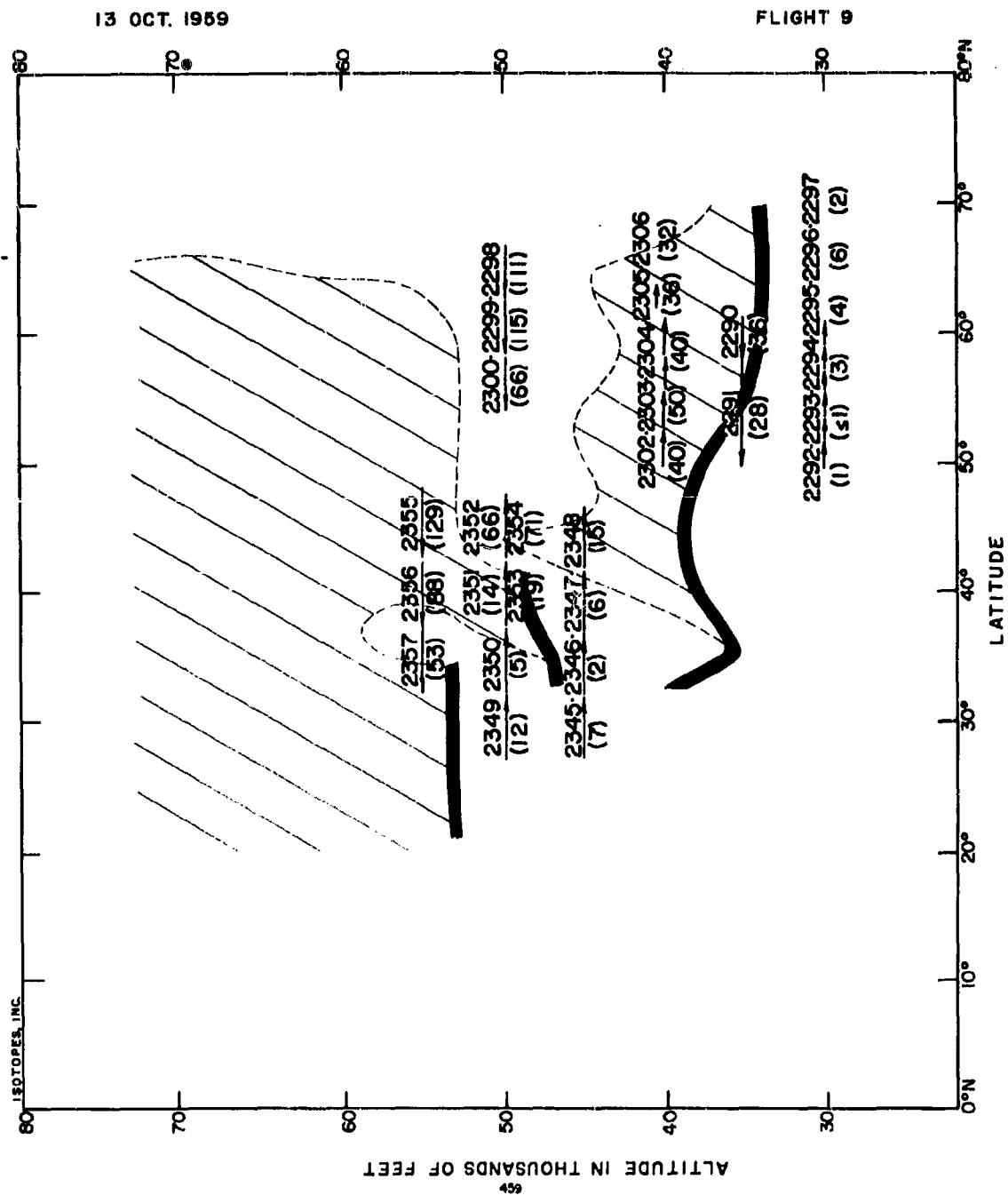


FIGURE 4.180 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
14 October 1959 Sea Fish Special No. 8								
369	2307	63°N	34.8	460	5 ± 1	268 ± 11	0.9	---
	2308	68°N	35.2	1,090	14 ± 1	482 ± 13	0.3	9.6
	2309	73°N	35.8	1,300	20 ± 1	749 ± 16	---	---
	2310	78°N	36.4	1,510	21 ± 1	---	0.3	8.1
	2311	83°N	36.9	1,500	20 ± 1	749 ± 23	0.6	---
	2343	80°N	36.5	2,000	23 ± 1	---	---	---
	2312	88°N	37.5	2,200	35 ± 2	---	0.6	9.6
	2313	88°N	37.5	1,700	29 ± 2	---	---	7.8
	2314	88°N	38.4	1,710	25 ± 1	---	0.5	8.9
	2315	83°N	39.3	1,260	17 ± 1	---	0.8	---
	2344	84°N	39.0	2,700	34 ± 1	---	0.5	---
	2316	78°N	40.3	1,890	32 ± 1	1231 ± 31	0.5	9.5
	2317	73°N	41.0	1,870	26 ± 1	963 ± 27	0.6	---
	2318	68°N	41.9	2,200	30 ± 1	---	---	9.4
	2319	63°N	42.9	1,720	29 ± 1	1070 ± 31	---	---

14 OCT. 1959

SEA FISH SPECIAL No. 6

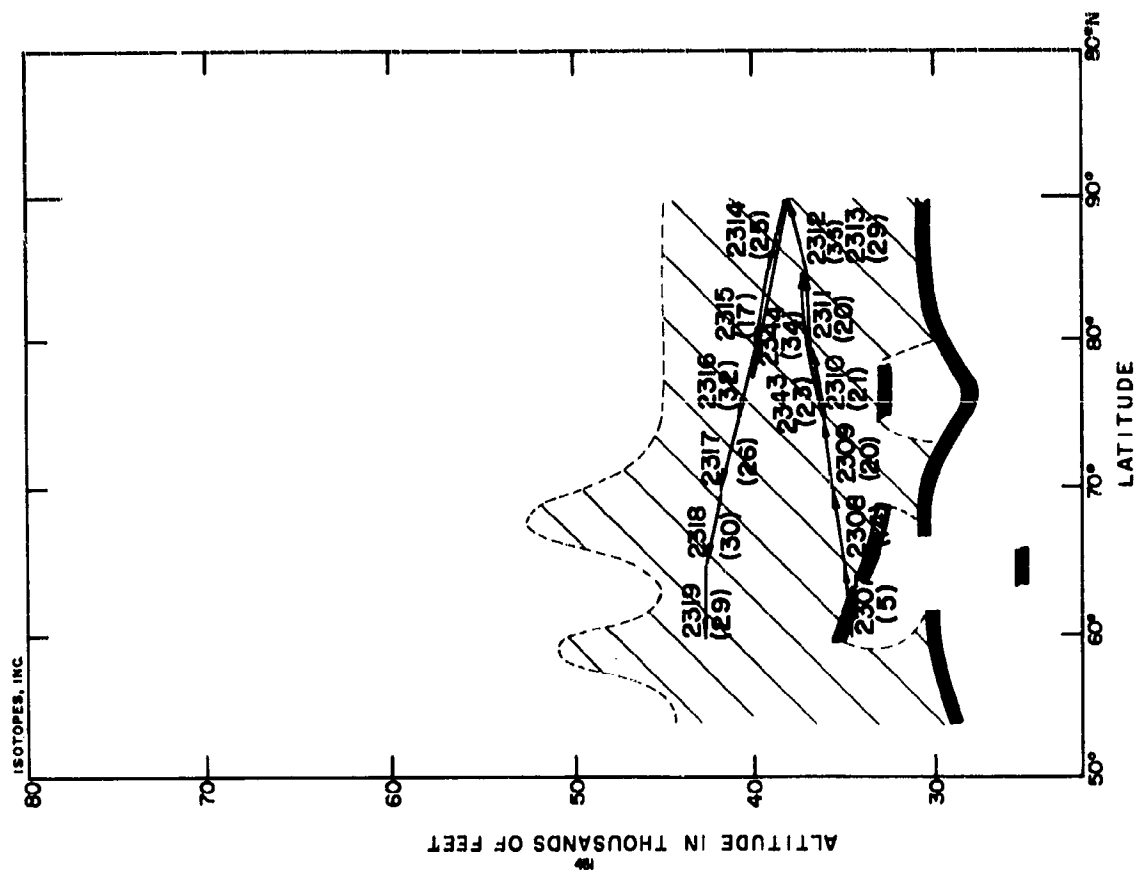


FIGURE 4.181 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>15 October 1959 Mission 10A</u>								
705	2358	30°N	63.8	10,600	187 ± 1	1836 ± 79	---	---
LN	2359	36°N	64.9	11,000	167 ± 2	2110 ± 60	0.4	---
	2360	42°N	65.3	11,200	193 ± 1	1350 ± 242	---	---
	2362	42°N	65.3	11,600	190 ± 2	1296 ± 62	0.3	---
	2361	47°N	65.9	9,700	202 ± 12	5780 ± 490	---	---
	2363	47°N	65.9	11,400	219 ± 10	≤ 540	---	---
	2365	47°N	66.5	11,000	184 ± 1	≤ 270	---	---
	2366	36°N	68.4	10,700	196 ± 1	864 ± 53	0.3	---
714	2367	26°N	65.8	12,700	201 ± 10	1620 ± 102	0.3	---
LS	2368	22°N	66.4	10,700	208 ± 9	2050 ± 80	---	---
	2369	18°N	67.2	12,800	209 ± 10	4700 ± 90	---	---
	2371	18°N	67.2	12,400	207 ± 4	4370 ± 110	0.3	---
	2370	14°N	68	13,200	222 ± 1	4590 ± 100	---	---
	2372	14°N	68	15,600	250 ± 10	5670 ± 160	---	---
	2373	14°N	68.4	13,300	228 ± 8	5510 ± 150	0.4	---
	2374	18°N	68.8	15,900	247 ± 8	6640 ± 130	0.6	---
	2375	22°N	69.5	14,900	280 ± 9	6480 ± 230	---	---
	2376	26°N	70	12,400	208 ± 1	3350 ± 220	---	---

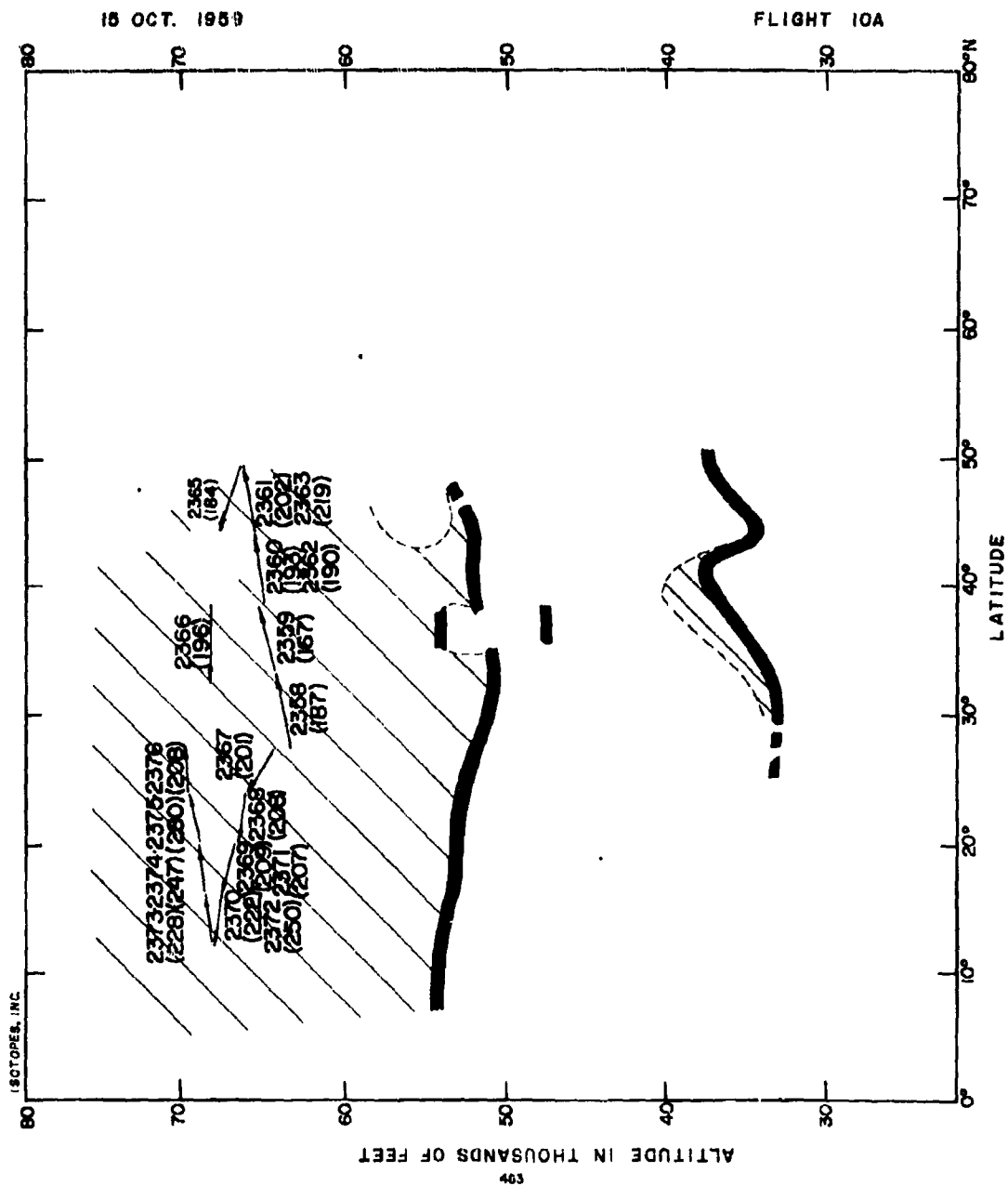


FIGURE 4.182 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>16 October 1959 Mission 10B</u>								
716	2321	53°N	55	6,100	111 ± 4	---	0.8	---
MN	2322	58°N	55	8,000	150 ± 5	---	---	---
	2323	63°N	55	9,100	161 ± 6	---	0.2	---
	2325	63°N	55	10,300	178 ± 2	---	0.1	---
	2324	68°N	55	10,900	174 ± 6	---	0.3	---
	2326	68°N	55	13,500	215 ± 6	---	0.6	---
	2327	68°N	60	11,600	186 ± 37	810 ± 77	0.4	9.3
	2328	63°N	60	11,200	199 ± 2	---	---	---
	2329	58°N	60	11,600	185 ± 5	2380 ± 90	0.3	---
	2330	53°N	60	11,400	196 ± 1	---	---	---
717	2331	53°N	63	11,100	166 ± 8	2050 ± 90	0.3	---
MN	2332	58°N	64.6	10,600	180 ± 4	918 ± 87	---	---
	2333	63°N	65.7	10,200	198 ± 3	918 ± 84	---	---
	2335	63°N	65.7	11,100	183 ± 9	864 ± 51	0.3	---
	2334	68°N	66.8	10,100	143 ± 2	≤ 378	0.8	---
	2336	68°N	66.8	11,000	160 ± 3	≤ 378	---	---
	2337	68°N	67.5	10,800	135 ± 4	≤ 270	1.1	---
	2338	63°N	68	12,100	154 ± 2	1134 ± 86	0.6	---
	2339	58°N	68.6	12,700	145 ± 5	540 ± 87	0.6	---
	2340	53°N	69.3	10,600	170 ± 2	702 ± 73	1.0	---

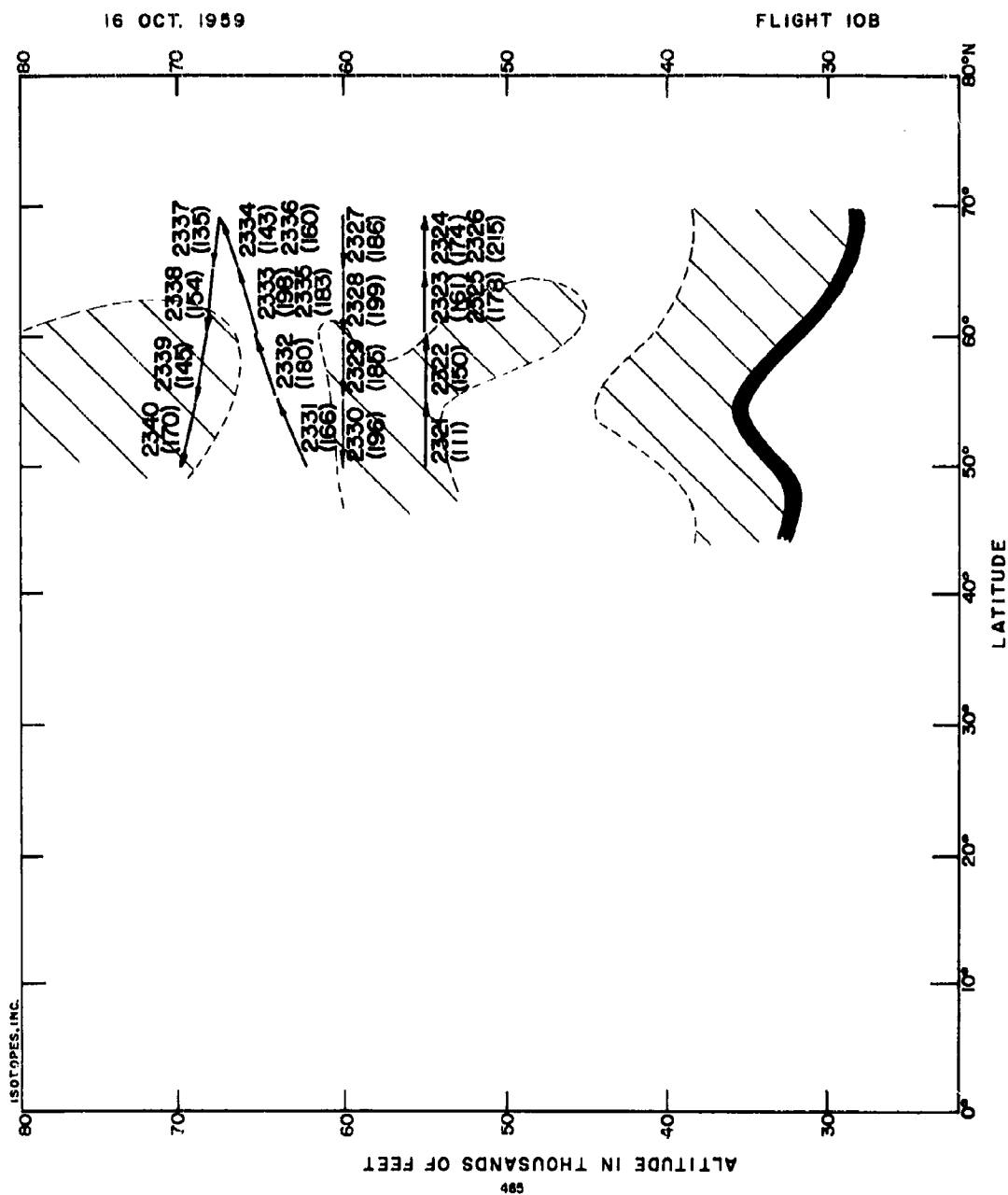


FIGURE 4.183 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
20 October 1959 Mission 11									
715	2381	52°N	45	1,680	22 ± 1	840 ± 68	2.0	---	
MN	2382	54°N	45	2,400	33 ± 1	1736 ± 123	1.1	---	
	2383	57°N	45	2,100	22 ± 1	504 ± 49	1.2	---	
	2384	61°N	44.6	1,770	22 ± 1	1456 ± 103	---	---	
	2385	64°N	45	3,200	24 ± 1	1176 ± 102	1.8	---	
	2386	67°N	45	3,100	37 ± 1	1680 ± 94	---	---	
	2377	66°N	55	9,600	151 ± 1	2460 ± 120	---	---	
	2378	62°N	55	9,100	157 ± 7	2180 ± 130	---	---	
	2379	57°N	55	7,800	133 ± 3	1568 ± 99	---	---	
	2380	53°N	55	5,800	87 ± 1	2630 ± 100	0.1	---	
717	2387	53°N	60	9,500	142 ± 2	3080 ± 160	---	---	
MN	2388	58°N	60	11,400	176 ± 6	2180 ± 100	---	---	
	2389	63°N	60	10,700	217 ± 8	1400 ± 155	---	---	
	2390	68°N	60	12,500	208 ± 2	1176 ± 83	---	---	
705	2391	18°N	55	1,190	21 ± 1	784 ± 50	1.3	---	
RO	2392	18°N	60	7,200	110 ± 2	---	0.2	8.5	
	2393	18°N	65	10,000	161 ± 6	---	---	8.4	
	2394	18°N	67.6	12,500	240 ± 8	---	---	7.0	
	2395	18°N	68.3	16,000	246 ± 7	---	---	8.1	
718	2396	12°N	60	5,200	74 ± 1	4980 ± 210	1.8	---	
RS	2397	6°N	60	4,000	60 ± 1	---	---	---	
	2398	1°N	60	3,000	57 ± 1	2690 ± 160	---	---	
	2400	1°N	60	4,400	64 ± 1	3860 ± 150	1.3	---	
	2399	5°S	60	2,700	---	---	---	---	
	2401	5°S	60	3,200	51 ± 1	3250 ± 220	---	7.4	
	2402	5°S	65	8,200	146 ± 1	---	---	6.4	
	2403	1°N	65	11,600	166 ± 1	---	0.6	---	
	2404	6°N	65	13,100	202 ± 9	6160 ± 230	0.5	7.9	
	2405	13°N	65	12,100	189 ± 38	4820 ± 590	---	---	
	714	2406	12°N	65.9	12,300	200 ± 3	5540 ± 280	---	---
	RS	2407	6°N	66	13,800	229 ± 2	---	---	6.3
		2408	1°N	66.6	13,600	206 ± 2	---	---	---
2410		1°N	66.6	15,700	214 ± 2	---	---	---	
2409		5°S	67.6	11,200	170 ± 1	---	---	9.0	
2411		5°S	67.6	10,600	142 ± 4	6270 ± 160	1.6	10	
2412		5°S	68.4	10,900	194 ± 2	---	---	7.8	
2413		1°N	68.5	15,800	328 ± 3	1328 ± 50	---	---	
2414		6°N	69.5	20,000	330 ± 14	6050 ± 130	---	8.0	
2415		12°N	69.9	19,400	273 ± 8	4980 ± 160	---	10	
					466				

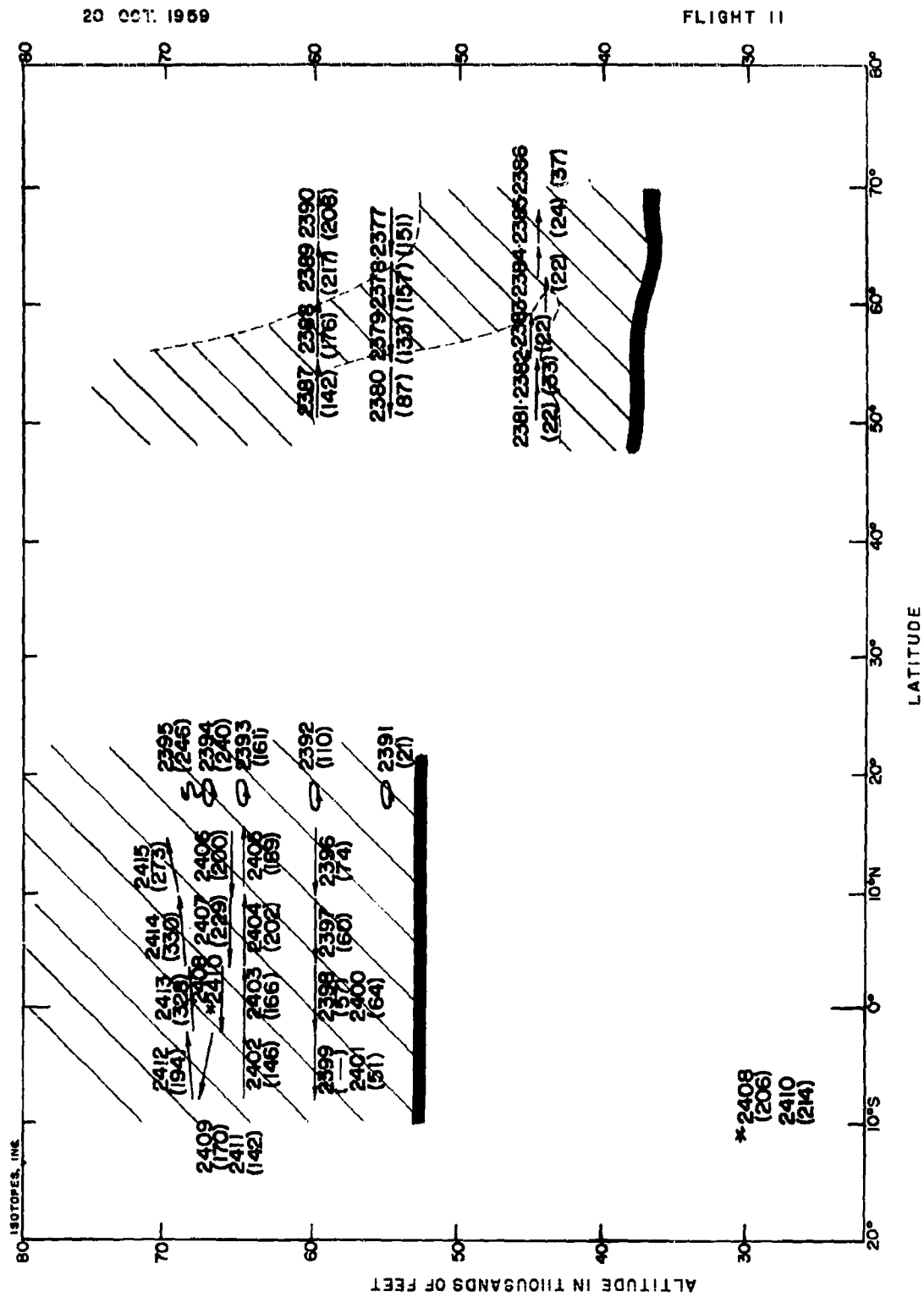


FIGURE 4.184 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>22 October 1959 Mission 12</u>								
717	2420	51°N	30	< 450	< 0.4	< 456	> 6.5	---
MN	2421	53°N	30	< 97	1.3 ± 0.7	< 456	2.1	---
	2422	56°N	30	< 66	< 1.1	< 456	> 1.7	---
	2423	57°N	30	< 178	< 0.5	< 456	> 5.7	---
	2424	59°N	30	< 530	4 ± 1	< 456	0.6	---
	2425	61°N	30	< 940	8 ± 1	< 456	0.4	---
	2416	60°N	35	1,460	18 ± 1	513 ± 32	---	---
	2417	57°N	35	880	13 ± 1	513 ± 32	---	---
	2418	55°N	35	990	8 ± 1	513 ± 32	---	---
	2419	52°N	35	890	10 ± 1	513 ± 32	---	---
716	2430	52°N	40	900	15 ± 1	513 ± 47	---	---
MN	2431	55°N	40	830	19 ± 1	570 ± 44	---	---
	2432	58°N	40	1,390	24 ± 1	1140 ± 70	---	---
	2433	60°N	40	2,300	44 ± 1	1311 ± 75	---	---
	2434	63°N	40	2,800	49 ± 1	1824 ± 75	---	---
	2435	66°N	40	3,600	43 ± 1	1482 ± 56	---	---
	2426	65°N	50	7,200	115 ± 1	---	---	---
	2427	61°N	50	4,500	71 ± 2	2220 ± 60	---	---
	2428	57°N	50	4,300	62 ± 1	2170 ± 60	---	---
	2429	52°N	50	3,100	40 ± 2	1425 ± 84	---	---
718	2440	12°N	60	5,300	85 ± 1	3250 ± 110	---	---
RS	2441	7°N	60	5,200	82 ± 3	4330 ± 140	---	---
705	2439	12°N	64.1	10,700	175 ± 1	---	---	---
RS	2438	6°N	64.4	12,100	194 ± 6	6040 ± 230	---	---
	2437	7°N	65.7	11,600	218 ± 1	6100 ± 200	0.1	---
	2436	12°N	66.2	12,000	189 ± 3	---	---	---

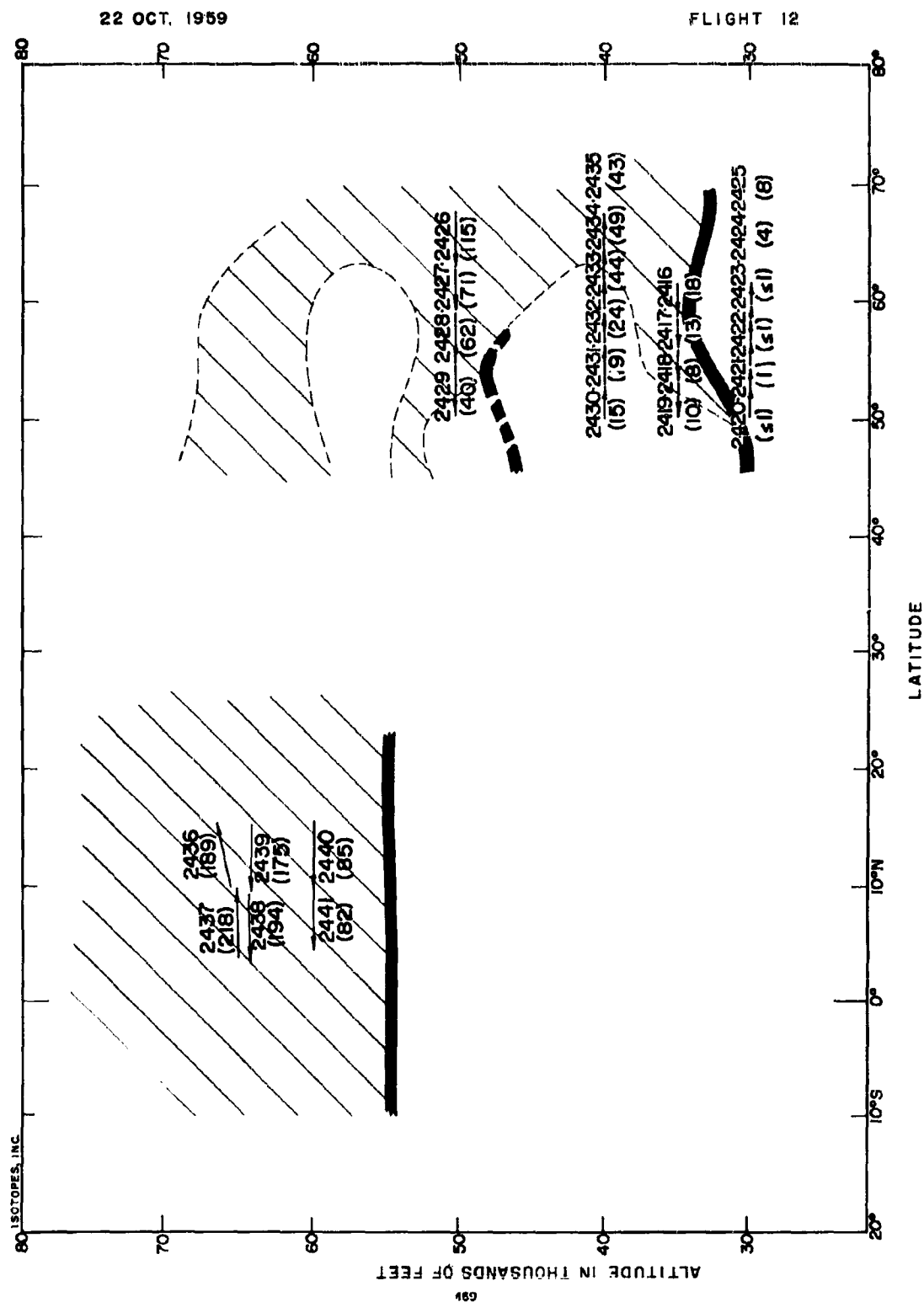


FIGURE 4.185 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>27 October 1959 Mission 13A</u>								
716	2442	53°N	55	6,800	134 ± 2	---	---	---
MN	2443	58°N	55	8,500	138 ± 4	---	---	---
	2444	63°N	55	8,100	129 ± 2	2520 ± 110	0.8	---
	2446	63°N	55	9,200	149 ± 5	---	---	---
	2445	68°N	55	7,000	97 ± 2	2940 ± 120	---	---
	2447	68°N	55	6,800	129 ± 5	2820 ± 90	---	---
	2448	68°N	60	10,800	189 ± 6	2160 ± 90	0.5	---
	2449	63°N	60	11,500	218 ± 9	2460 ± 250	---	---
	2450	58°N	60	11,800	225 ± 8	1740 ± 99	---	---
	2451	53°N	60	12,600	201 ± 1	1920 ± 83	---	---
715	2452	53°N	64.3	9,000	160 ± 1	960 ± 95	---	---
MN	2453	58°N	65.6	10,500	197 ± 4	1080 ± 114	---	---
	2454	63°N	65.8	10,900	194 ± 4	1320 ± 121	0.1	---
	2456	63°N	65.8	11,100	223 ± 3	1380 ± 149	---	---
	2455	68°N	66.3	9,700	191 ± 2	< 540	---	---
	2457	68°N	66.3	10,300	206 ± 4	600 ± 139	---	---
	2458	68°N	67	11,700	203 ± 4	480 ± 128	---	---
	2459	63°N	67.4	10,100	208 ± 4	1020 ± 156	---	---
	2460	58°N	68	13,500	224 ± 6	1500 ± 198	---	---
	2461	53°N	69.2	12,100	227 ± 3	1680 ± 195	0.2	---

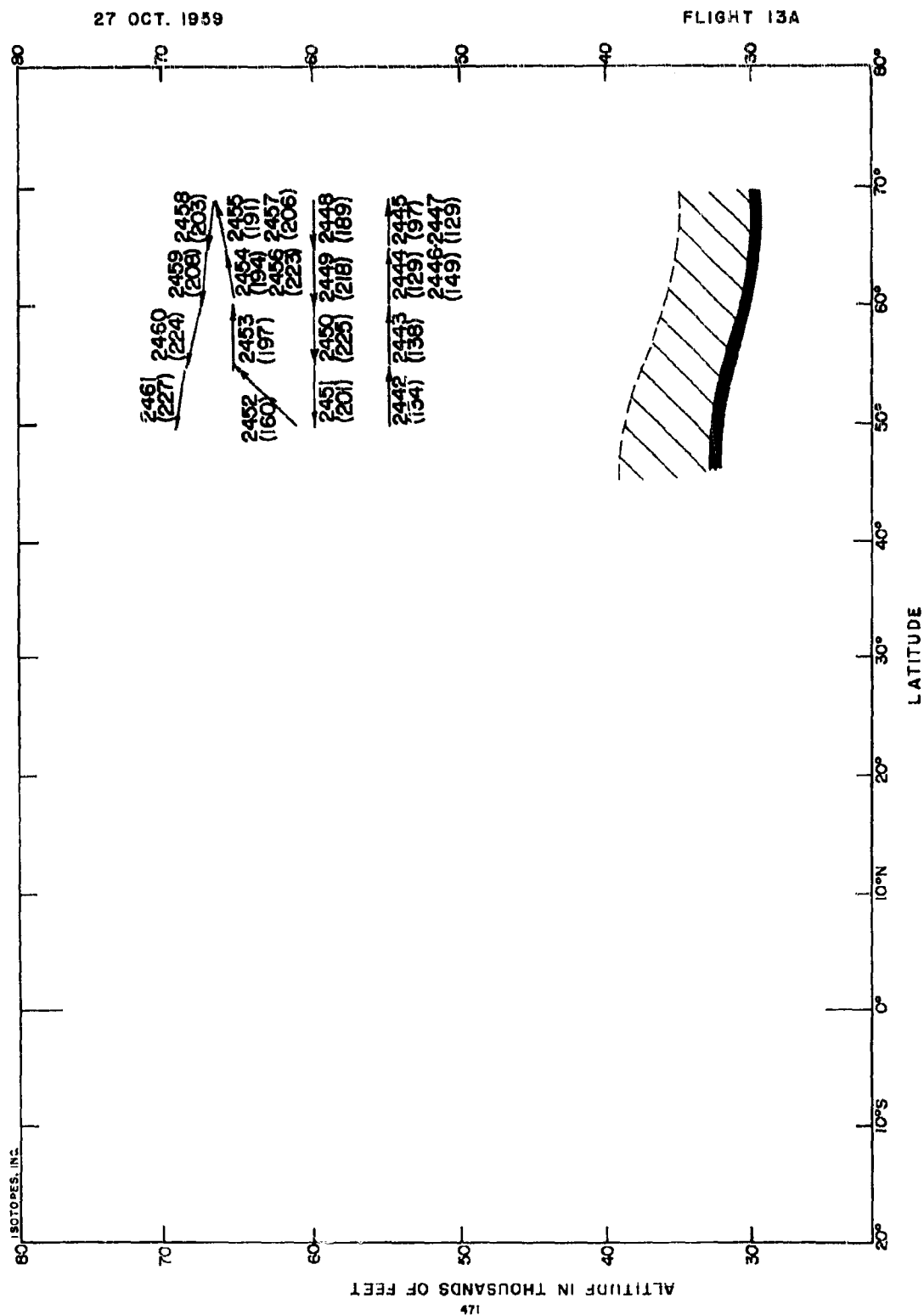


FIGURE 4.186 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W185 (Aug 58)		
<u>28 October 1959 Mission 13B</u>								
714	2467	30°N	65.2	10,000	167 + 1	1920 + 109	0.8	---
LN	2468	36°N	66.3	11,300	183 $\mp$ 2	1920 $\mp$ 132	---	---
	2469	42°N	66.5	9,100	196 $\mp$ 6	780 $\mp$ 270	---	---
	2471	42°N	66.5	12,700	191 $\mp$ 3	1260 $\mp$ 130	0.2	---
	2470	47°N	67	11,400	210 $\mp$ 3	1320 $\mp$ 148	0.2	---
	2472	47°N	67	9,500	192 $\mp$ 3	900 $\mp$ 132	0.6	---
	2473	47°N	67.7	10,500	168 $\mp$ 3	780 $\mp$ 121	---	---
	2474	42°N	69.2	11,600	218 $\mp$ 3	1200 $\mp$ 108	---	---
	2475	36°N	69.4	12,100	193 $\mp$ 8	< 950	---	---
	2476	30°N	70.1	11,900	225 $\mp$ 2	1800 $\mp$ 211	---	---
718	2462	29°N	59.6	7,800	110 + 1	---	---	---
LO	2463	29°N	62.8	8,800	148 $\mp$ 4	---	0.6	---
	2464	29°N	66.1	9,600	148 $\mp$ 7	2220 + 100	---	---
	2465	29°N	68.4	11,900	149 $\mp$ 6	1080 $\mp$ 139	2.0	---
	2466	29°N	69.5	10,300	185 $\mp$ 3	1140 $\mp$ 114	---	---
705	2477	26°N	63.8	9,600	170 + 2	1680 + 87	0.1	---
LS	2478	22°N	64.6	13,700	171 $\mp$ 2	4140 $\mp$ 130	---	---
	2479	18°N	65.2	10,400	150 $\mp$ 3	4800 $\mp$ 190	---	---
	2480	14°N	65.8	11,900	204 $\mp$ 4	4500 $\mp$ 220	---	---

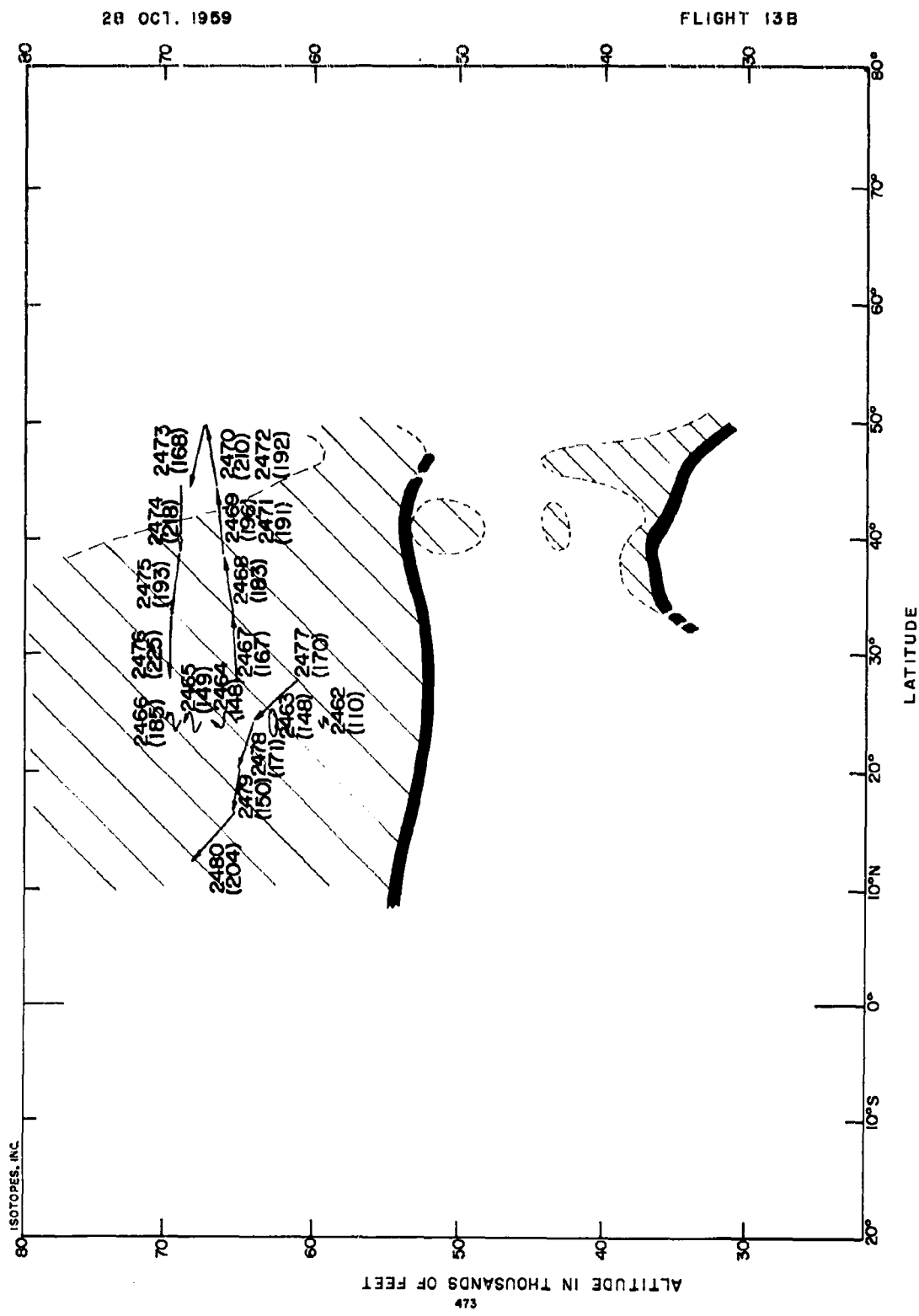


FIGURE 4.187 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
30 October 1959 Mission 14								
715	2481	48°N	30	1,000	13 ± 1	366 ± 52	---	---
MO	2485	48°N	30	< 780	10 ± 1	488 ± 35	---	---
	2482	48°N	39.5	1,700	23 ± 1	854 ± 49	---	---
	2483	48°N	50	3,200	53 ± 2	---	0.5	---
	2484	48°N	57	3,700	74 ± 3	1037 ± 110	---	---
717	2486	48°N	45	4,500	78 ± 2	2260 ± 60	---	---
MO	2490	48°N	45	5,000	78 ± 1	2500 ± 60	---	---
	2487	47°N	50	3,900	69 ± 2	305 ± 35	---	---
	2491	47°N	50	4,200	75 ± 1	1952 ± 53	---	---
	2488	47°N	55	7,000	116 ± 1	---	---	---
	2492	47°N	55	7,800	117 ± 1	---	---	---
	2489	47°N	60	11,800	196 ± 8	1586 ± 78	0.5	---
	2493	47°N	60	11,400	156 ± 7	1464 ± 97	---	---
	2494	48°N	64.3	11,400	216 ± 13	1281 ± 140	---	7.0
	2495	48°N	68.5	14,600	205 ± 2	1525 ± 93	---	---
705	2496	30°N	60	6,200	120 ± 4	2620 ± 80	0.1	---
LN	2497	36°N	60	9,600	223 ± 11	2260 ± 80	---	---
	2498	42°N	60	8,600	227 ± 11	1647 ± 74	---	---
	2500	42°N	60	12,000	148 ± 2	2440 ± 140	0.9	---
	2499	47°N	60	11,000	187 ± 1	2140 ± 110	---	---
	2501	47°N	60	12,000	208 ± 8	1647 ± 104	---	---
	2502	47°N	64.5	9,500	245 ± 10	1342 ± 165	---	---
	2503	42°N	65	14,900	184 ± 3	1586 ± 71	0.5	---
	2504	36°N	65	13,300	208 ± 8	1647 ± 77	---	---
	2505	30°N	65	11,500	195 ± 9	2930 ± 70	0.4	---
714	2506	26°N	60	6,200	85 ± 1	2380 ± 50	0.4	---
LS	2508	22°N	60	7,100	101 ± 5	2810 ± 60	0.3	---
	2507	18°N	60	4,800	85 ± 1	2010 ± 50	0.1	---
	2509	18°N	60	6,300	88 ± 4	---	---	---

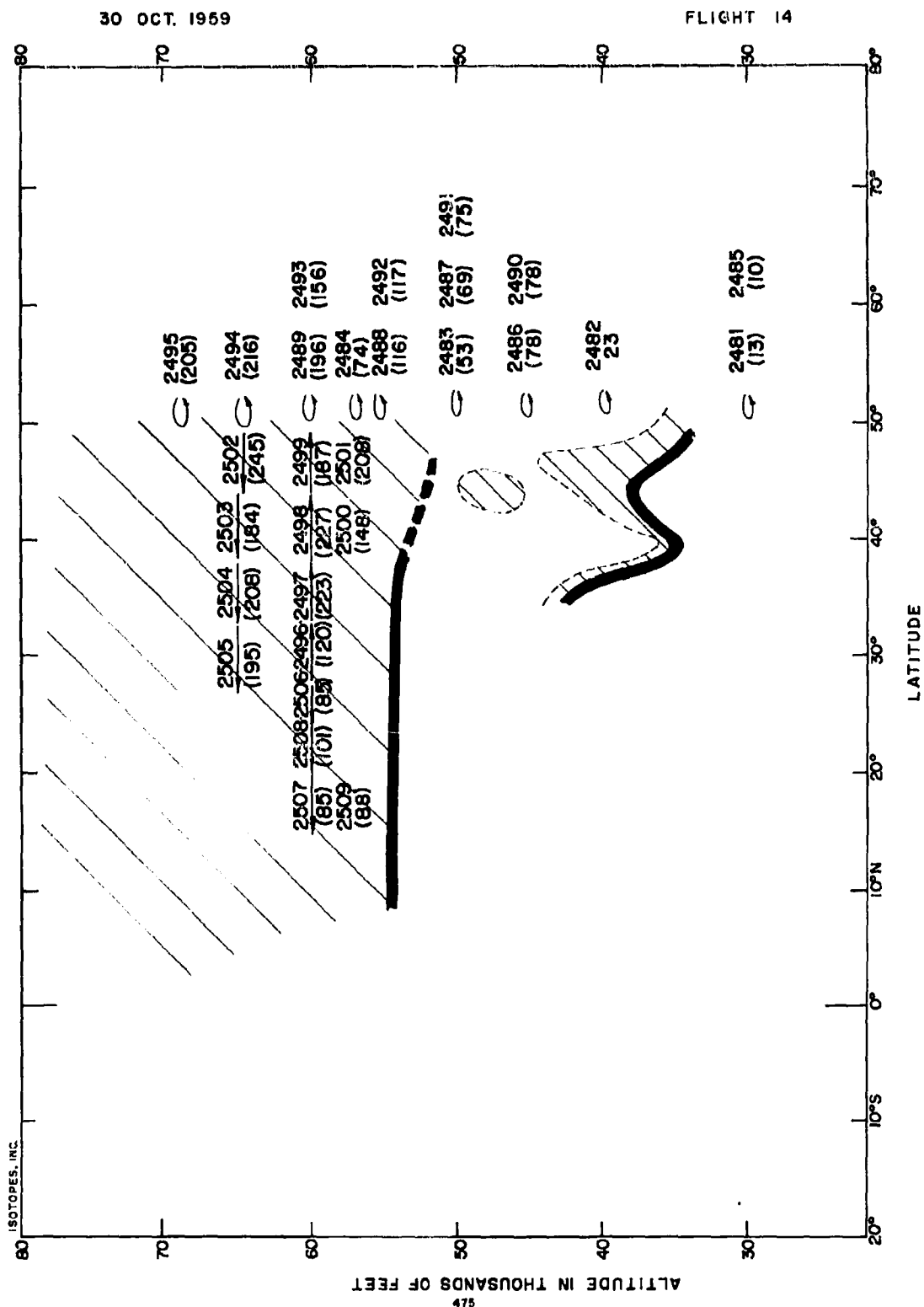


FIG. 4.188 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
3 November 1959 Mission 15								
718	2519	29°N	41	< 230	< 1.1	< 65	---	---
LN	2520	32°N	41	< 250	< 0.7	< 65	---	---
	2521	35°N	41	< 220	< 2	< 65	---	---
	2522	38°N	41	< 117	< 0.8	< 65	---	---
	2523	40°N	41	< 150	< 1.6	< 65	---	---
	2524	42°N	41	< 166	< 1.5	< 65	---	---
	2515	42°N	45	< 910	12 ± 1	194 ± 45	0.1	---
	2516	38°N	45	< 330	< 1.4	194 ± 45	> 0.6	---
	2517	34°N	46.1	< 360	3 ± 1	194 ± 45	0.3	---
	2518	30°N	45	< 139	3 ± 1	194 ± 45	0.3	---
714	2525	30°N	50	< 340	< 1.5	< 194	---	---
LN	2526	35°N	50	< 510	6 ± 1	323 ± 52	---	---
	2527	40°N	50	1,040	21 ± 1	774 ± 60	0.1	---
	2529	40°N	50	1,270	21 ± 1	710 ± 55	---	---
	2528	46°N	50	1,810	28 ± 1	710 ± 62	---	---
	2530	46°N	50	1,690	34 ± 1	1097 ± 57	---	---
	2531	46°N	55	4,200	68 ± 1	2320 ± 90	---	---
	2532	39°N	55	3,500	70 ± 1	2000 ± 60	---	---
705	2510	29°N	55	1,380	24 ± 1	774 ± 46	---	---
LO	2511	29°N	60	7,100	124 ± 1	3100 ± 90	0.2	---
	2512	29°N	65.1	11,100	199 ± 6	1935 ± 93	---	---
	2513	29°N	67.7	11,300	185 ± 1	1290 ± 99	---	---
	2514	29°N	69	10,800	182 ± 6	1032 ± 57	0.7	---

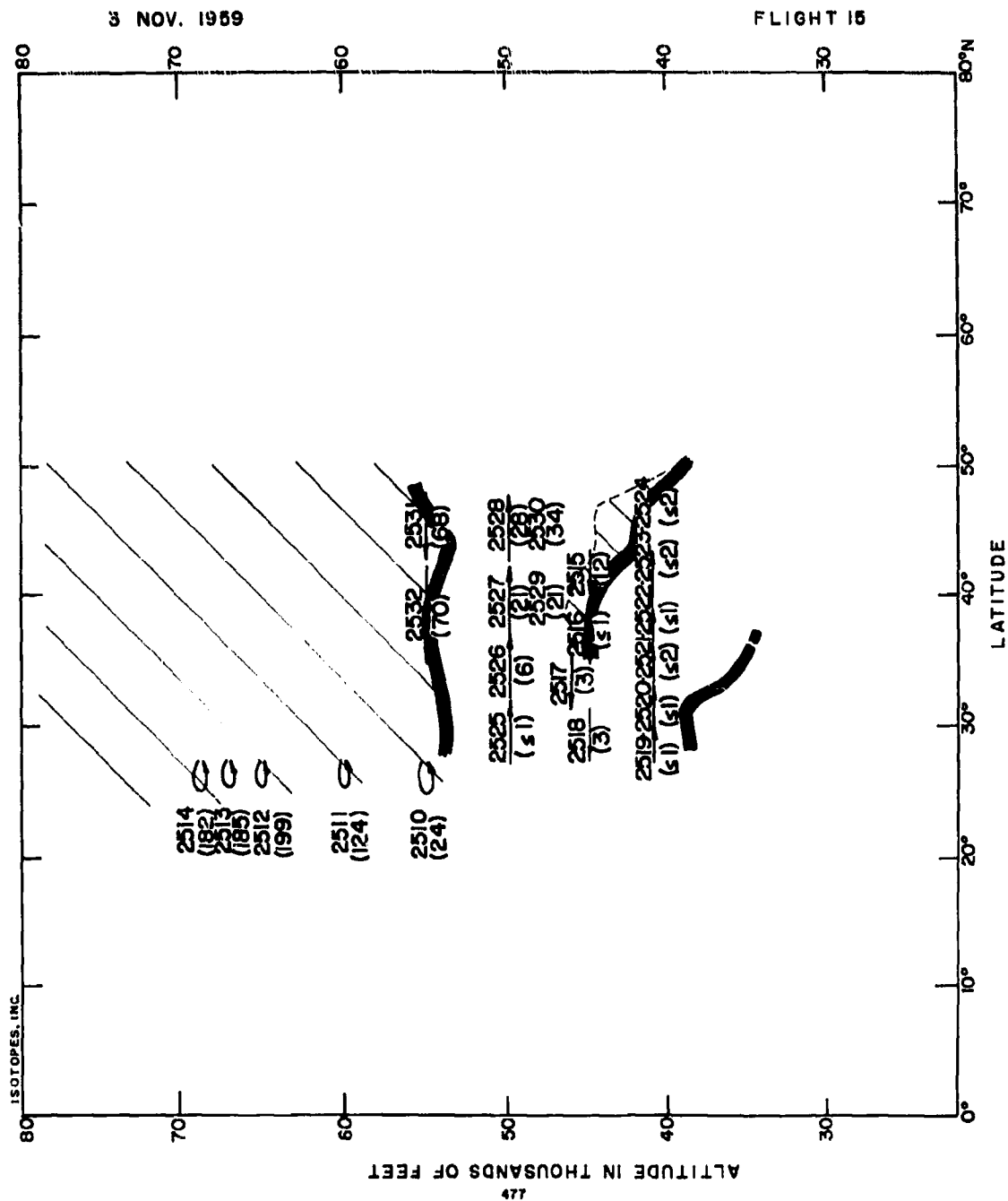


FIGURE 4.189 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
6 November 1959 Mission 16								
716	2533	53°N	55	8,100	127 ± 4	---	0.4	---
MN	2534	59°N	55	8,500	157 ± 5	---	---	---
	2535	64°N	55	8,400	183 ± 5	---	---	---
	2537	64°N	55	11,400	175 ± 5	---	---	---
	2536	69°N	55	7,300	129 ± 5	---	< 0.1	---
	2538	69°N	55	10,700	160 ± 5	---	---	---
	2539	69°N	60	9,700	189 ± 30	1782 ± 102	0.2	7.9
	2540	64°N	60	9,500	171 ± 2	726 ± 48	---	---
	2541	59°N	60	9,900	167 ± 3	1320 ± 50	0.2	---
	2542	53°N	60.5	10,300	180 ± 4	1320 ± 57	---	---
717	2543	53°N	63	8,900	158 ± 4	< 726	---	---
MN	2544	59°N	65.2	10,900	187 ± 5	924 ± 88	---	---
	2545	64°N	66.4	11,000	163 ± 2	462 ± 92	---	---
	2547	64°N	66.4	11,500	171 ± 3	< 660	---	---
	2546	69°N	67.7	10,500	161 ± 1	< 198	---	---
	2548	69°N	67.7	10,900	189 ± 1	---	---	---
	2549	69°N	68.5	11,900	193 ± 1	462 ± 122	---	---
	2550	64°N	69.1	12,300	197 ± 6	330 ± 87	---	---
	2551	59°N	69.4	14,000	199 ± 3	462 ± 91	---	---
	2552	53°N	69.6	14,100	236 ± 5	1056 ± 125	---	---
718	2553	30°N	64.4	9,800	172 ± 5	1254 ± 174	0.4	---
LN	2554	36°N	64.8	10,400	187 ± 3	1056 ± 196	---	---
	2555	42°N	66.2	11,000	186 ± 5	726 ± 110	0.2	---
	2556	47°N	66.9	11,400	188 ± 9	1848 ± 107	0.6	---
	2558	47°N	66.9	12,200	208 ± 4	1980 ± 101	0.3	---
	2559	47°N	67.2	11,000	191 ± 1	1584 ± 114	---	---
	2560	42°N	68.3	11,800	230 ± 4	1782 ± 116	0.2	---
	2561	36°N	63.9	10,700	179 ± 2	1452 ± 70	0.1	---
	2562	30°N	53.7	7,600	159 ± 7	2240 ± 80	---	---
	705	2563	26°N	64	7,700	143 ± 2	2640 ± 110	1.5
LS	2564	23°N	64.7	8,800	140 ± 1	3370 ± 110	0.7	---
	2565	18°N	65.2	7,800	128 ± 1	3960 ± 140	0.1	---
	2567	18°N	65.2	12,200	203 ± 8	5280 ± 140	0.5	---
	2566	14°N	66	9,100	144 ± 2	7260 ± 360	0.3	---
	2568	14°N	66	12,300	193 ± 5	5740 ± 160	0.3	---
	2569	14°N	66.8	12,100	204 ± 10	5350 ± 150	---	---
	2570	18°N	67.2	12,700	208 ± 4	5940 ± 210	0.3	---
	2571	23°N	67.7	12,400	248 ± 9	4550 ± 130	0.1	---
	2572	26°N	68.3	14,200	249 ± 24	2770 ± 520	1.1	---

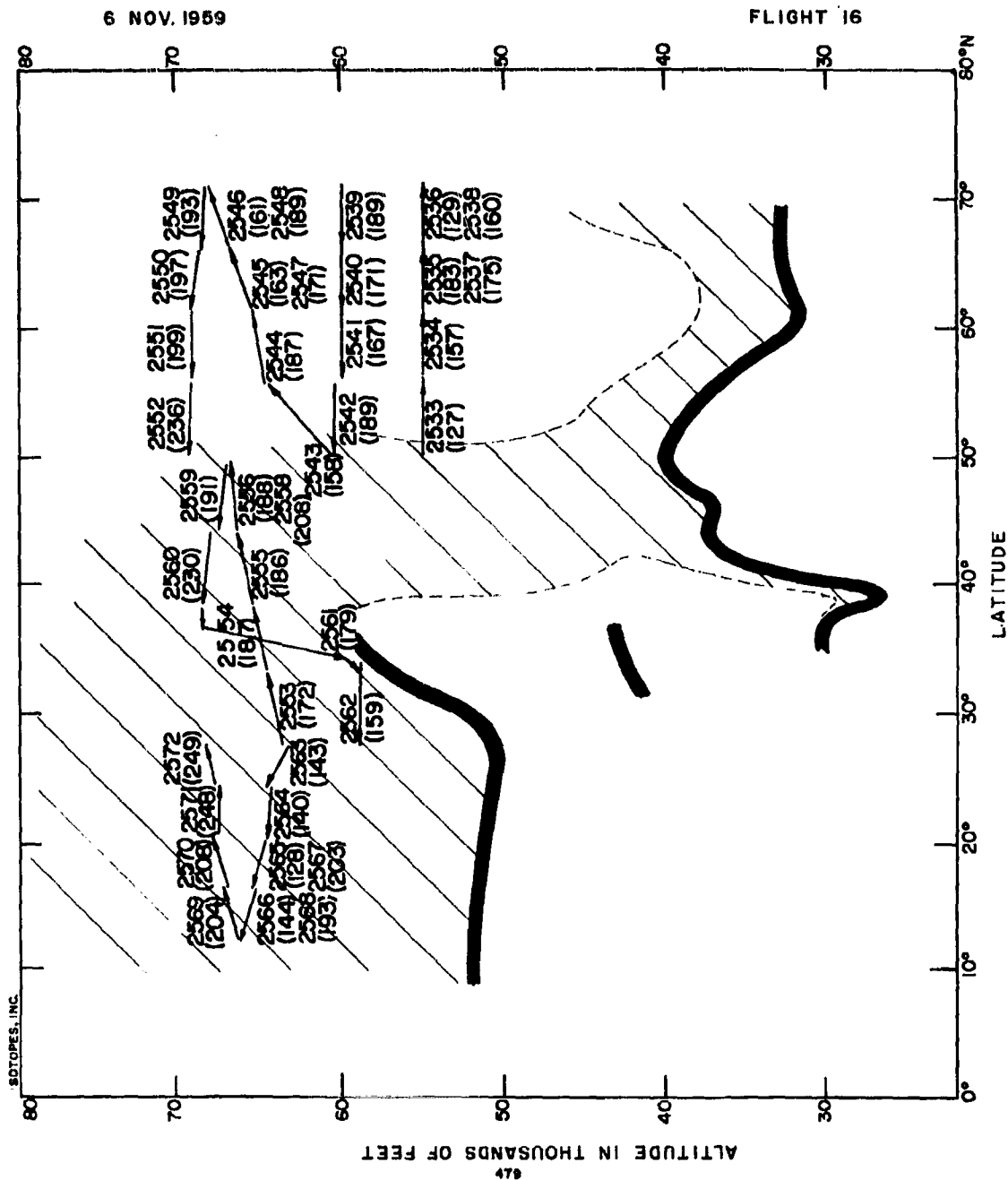


FIGURE 4.190 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr^{89} Sr^{90}	Ce^{144} Sr^{90}
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
10 November 1959 Mission 17A								
718	2573	30°N	59.8	9,000	152 $\pm$ 6	1564 $\pm$ 259	0.5	---
LN	2574	36°N	60	9,300	152 $\pm$ 4	2380 $\pm$ 310	---	---
	2575	42°N	60	8,700	135 $\pm$ 1	4560 $\pm$ 290	0.5	---
	2577	42°N	60	8,400	147 $\pm$ 1	---	---	---
	2576	47°N	60	7,000	117 $\pm$ 1	2040 $\pm$ 80	0.3	---
	2578	47°N	60	11,500	175 $\pm$ 1	2380 $\pm$ 110	---	---
	2579	47°N	65	10,300	164 $\pm$ 8	2300 $\pm$ 140	---	---
	2580	42°N	65.2	11,400	168 $\pm$ 8	1904 $\pm$ 248	0.4	---
	2581	36°N	65.5	10,600	181 $\pm$ 6	1564 $\pm$ 88	0.5	---
	2582	30°N	65.5	11,200	181 $\pm$ 1	---	---	---
714	2583	26°N	60	8,000	122 $\pm$ 4	---	---	---
LS	2584	22°N	60	5,800	100 $\pm$ 1	2790 $\pm$ 110	---	---
	2585	18°N	60	4,000	64 $\pm$ 2	2580 $\pm$ 120	---	---
	2587	18°N	60	5,100	74 $\pm$ 1	3130 $\pm$ 90	---	---
	2586	15°N	60	4,600	90 $\pm$ 5	2860 $\pm$ 120	---	---
	2588	15°N	60	4,800	63 $\pm$ 2	2920 $\pm$ 110	0.3	---
	2589	15°N	65	13,200	162 $\pm$ 1	4960 $\pm$ 170	---	---
	2590	18°N	65	9,800	138 $\pm$ 3	5510 $\pm$ 180	---	---
	2591	22°N	65	10,300	153 $\pm$ 1	5640 $\pm$ 240	---	---
	2592	26°N	65	11,200	179 $\pm$ 2	2790 $\pm$ 210	0.1	---

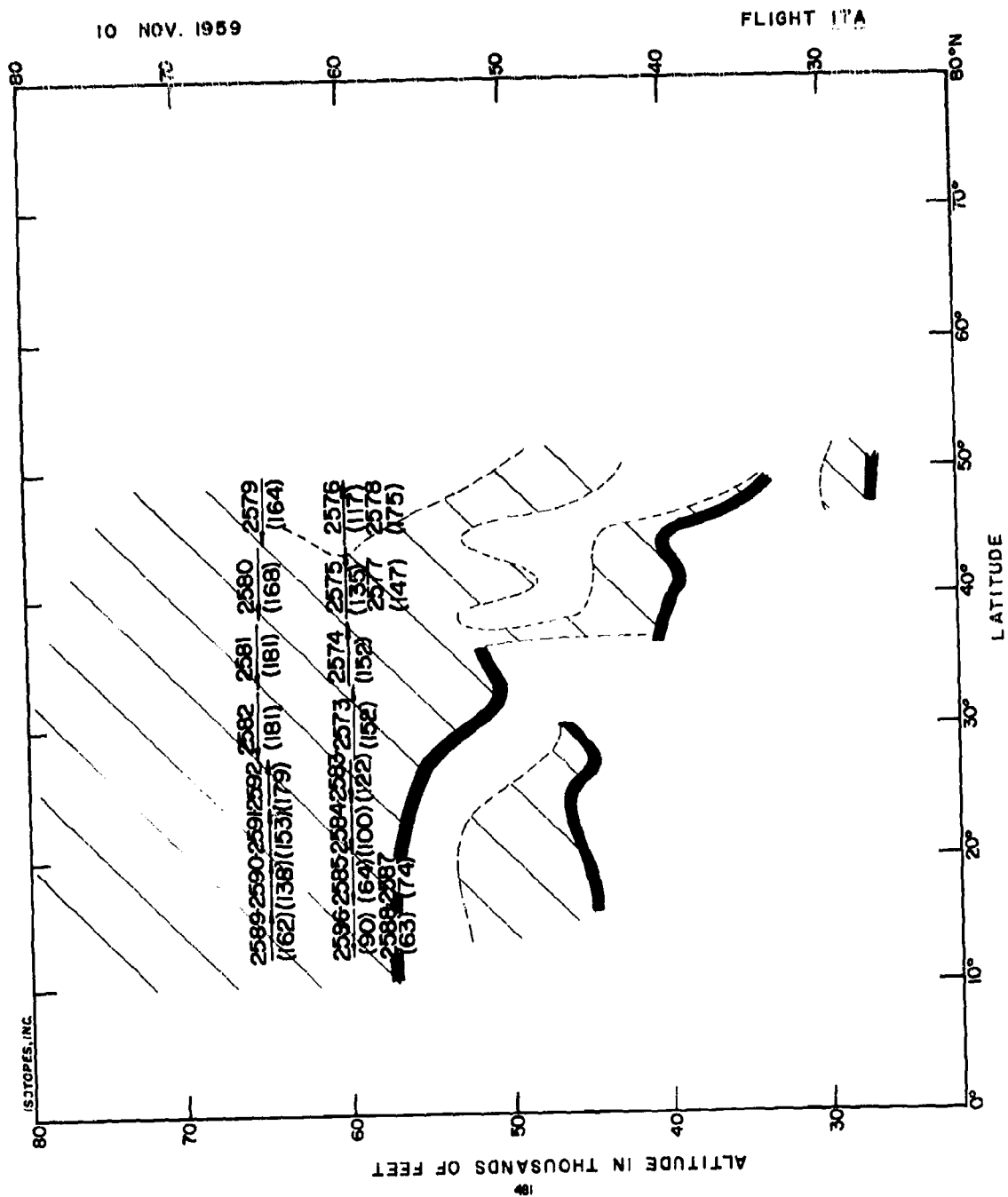


FIGURE 4.191 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>11 November 1959 Mission 17B</u>								
715	2597	52°N	45	4,200	74 ± 2	1890 ± 49	---	---
MN	2593	66°N	55	8,700	152 ± 3	1400 ± 98	---	---
	2594	62°N	55	9,100	143 ± 1	1470 ± 65	---	---
	2595	57°N	55	5,800	114 ± 2	2380 ± 70	---	---
	2596	53°N	54.5	8,200	138 ± 7	1680 ± 62	---	---
716	2598	53°N	60	7,000	147 ± 1	1120 ± 62	0.2	---
MN	2599	59°N	60	8,300	142 ± 1	840 ± 50	0.5	---
	2600	64°N	60	8,900	174 ± 2	420 ± 92	---	---
	2602	64°N	60	11,300	184 ± 6	630 ± 86	0.6	---
	2601	69°N	60	8,500	143 ± 4	< 1260	0.3	7.8
	2603	69°N	60	10,100	175 ± 1	420 ± 69	---	---
	2604	69°N	64.8	10,000	175 ± 1	< 280	---	---
	2605	64°N	65	11,000	162 ± 4	< 210	---	---
	2606	59°N	65	10,000	157 ± 3	< 560	---	---

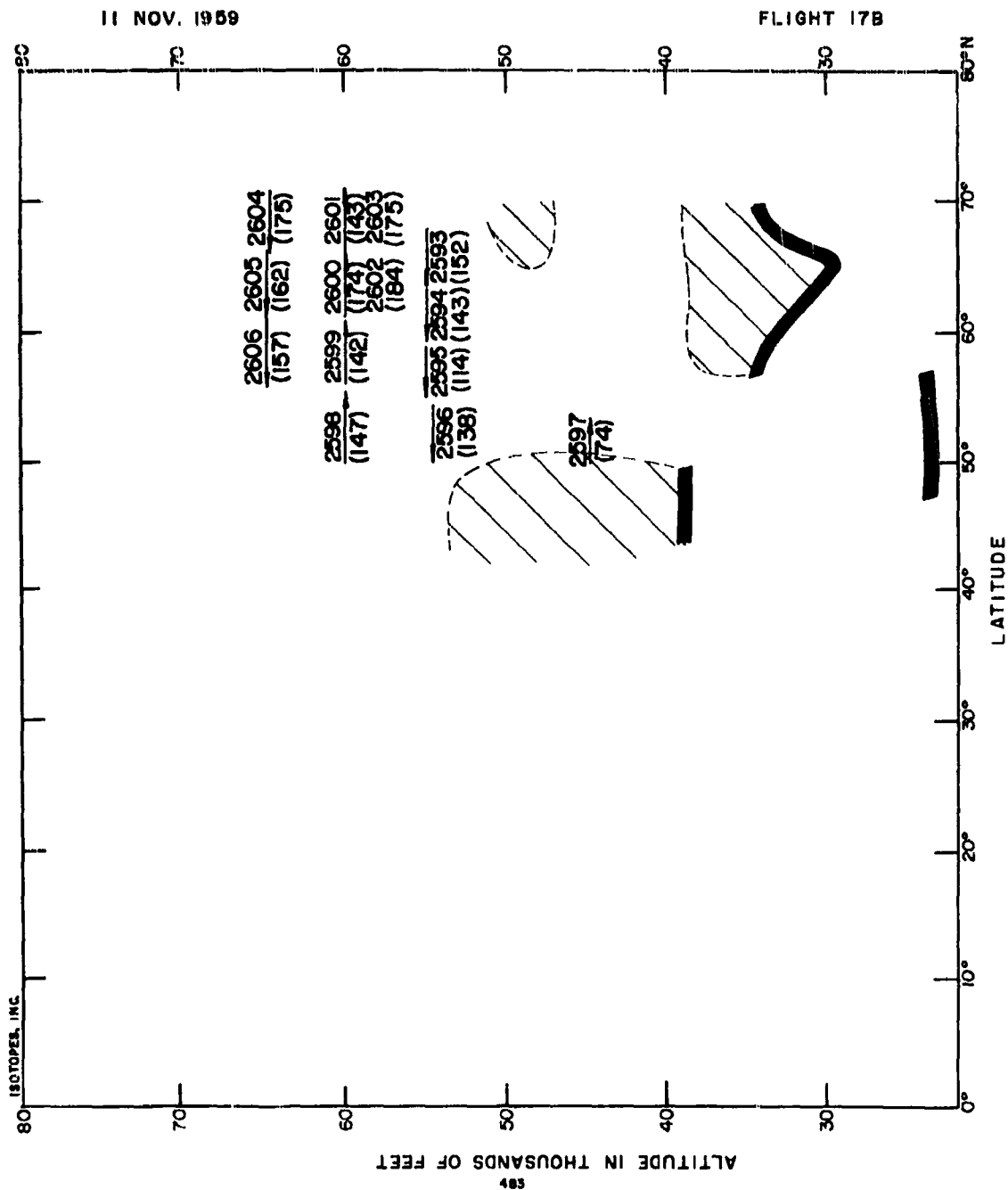


FIGURE 4.192 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
12 November 1959 Mission 18A								
718	2627	29°N	40	< 200	< 0.8	< 140	---	---
LN	2628	32°N	40	< 144	2 ± 1	< 70	---	---
	2629	35°N	40	< 290	2 ± 1	< 70	---	---
	2630	37°N	41	< 300	3 ± 1	< 140	---	---
	2631	40°N	44	< 210	2 ± 1	< 140	---	---
	2632	43°N	44	1,510	28 ± 1	630 ± 35	---	---
	2623	42°N	45	1,210	17 ± 1	280 ± 43	1.3	---
	2624	38°N	45	< 330	5 ± 1	210 ± 36	---	---
	2625	34°N	45	< 570	5 ± 1	210 ± 64	---	---
	2626	30°N	45	< 162	2 ± 1	< 70	---	---
705	2633	30°N	50	1,010	14 ± 1	1050 ± 43	---	---
LN	2634	35°N	50	2,200	36 ± 1	420 ± 52	---	---
	2635	40°N	50	3,400	47 ± 1	1190 ± 51	0.6	---
	2637	40°N	50	4,000	61 ± 2	1190 ± 55	0.5	---
	2636	46°N	50	6,100	95 ± 2	630 ± 41	0.4	---
	2638	46°N	50	7,400	137 ± 5	---	---	---
	2639	46°N	55	10,700	146 ± 5	1540 ± 80	1.0	---
	2640	40°N	55	9,500	141 ± 5	2030 ± 90	0.1	---
	2641	33°N	55	3,800	59 ± 1	1610 ± 42	---	---

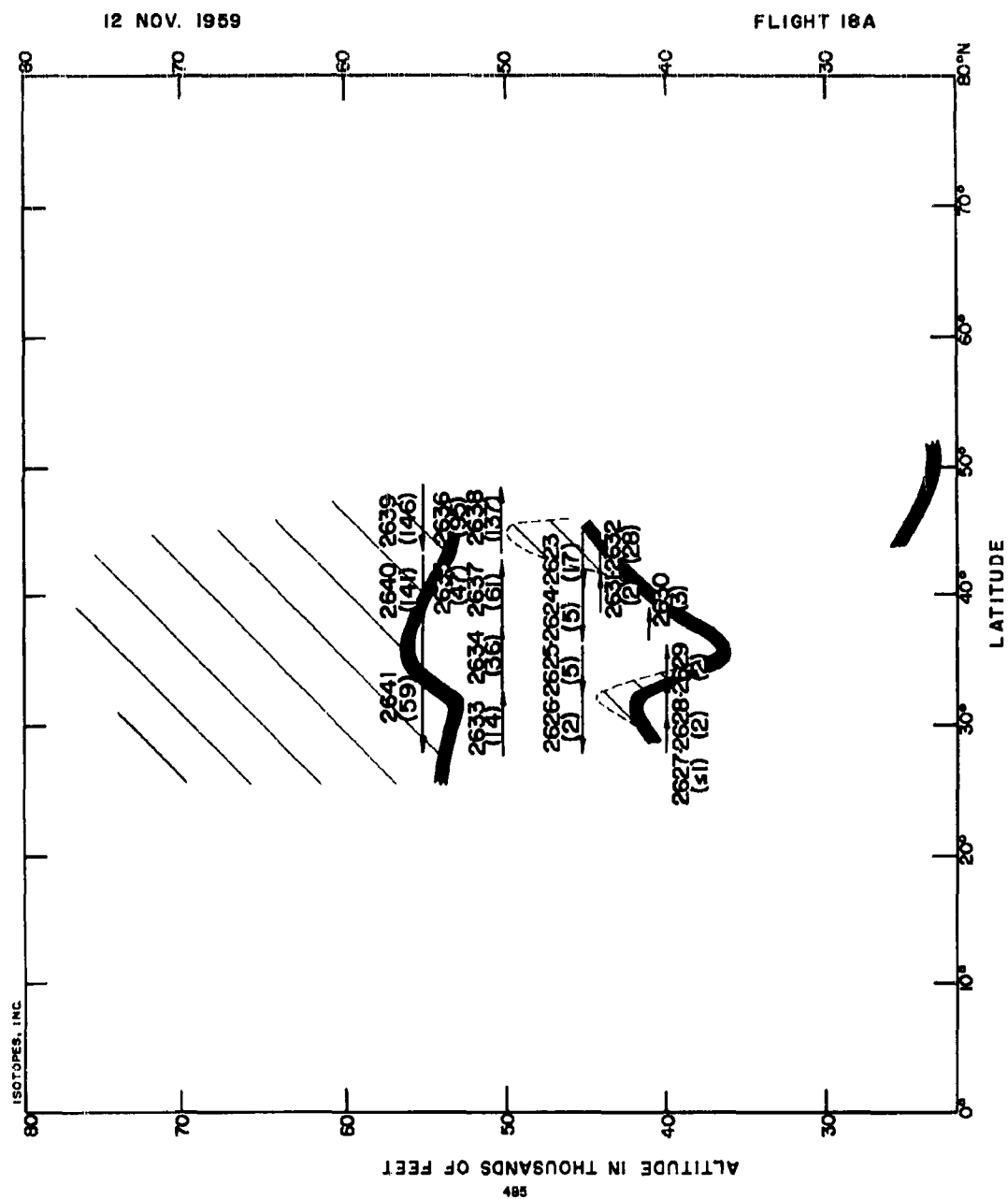


FIGURE 4.193 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>13 November 1959 Mission 18B</u>								
717	2611	51°N	30	< 400	4 ± 1	141 ± 29	---	8.4
MN	2612	53°N	30	< 900	11 ± 1	353 ± 33	---	8.2
	2607	60°N	35	1,590	29 ± 1	1128 ± 44	0.6	9.9
	2608	57°N	35	2,100	30 ± 1	1128 ± 41	0.4	---
	2609	55°N	35	1,930	31 ± 2	1058 ± 47	---	8.2
	2610	52°N	35	1,830	29 ± 2	2750 ± 94	---	---
716	2617	52°N	40	3,300	60 ± 3	2190 ± 37	0.3	---
MN	2618	55°N	40	3,500	52 ± 1	---	---	---
	2619	58°N	40	2,500	50 ± 1	1481 ± 31	0.3	---
	2620	61°N	40	3,200	47 ± 2	1622 ± 36	---	---
	2621	63°N	40	2,700	45 ± 1	1622 ± 36	---	---
	2622	65°N	40	3,900	69 ± 1	2470 ± 160	0.6	---
	2613	64°N	50	7,500	135 ± 3	2260 ± 80	---	---
	2614	61°N	50	6,800	99 ± 2	2120 ± 60	---	---
	2615	57°N	50	6,600	106 ± 4	1481 ± 31	---	---
	2616	52°N	50	7,000	147 ± 6	4870 ± 120	0.3	---

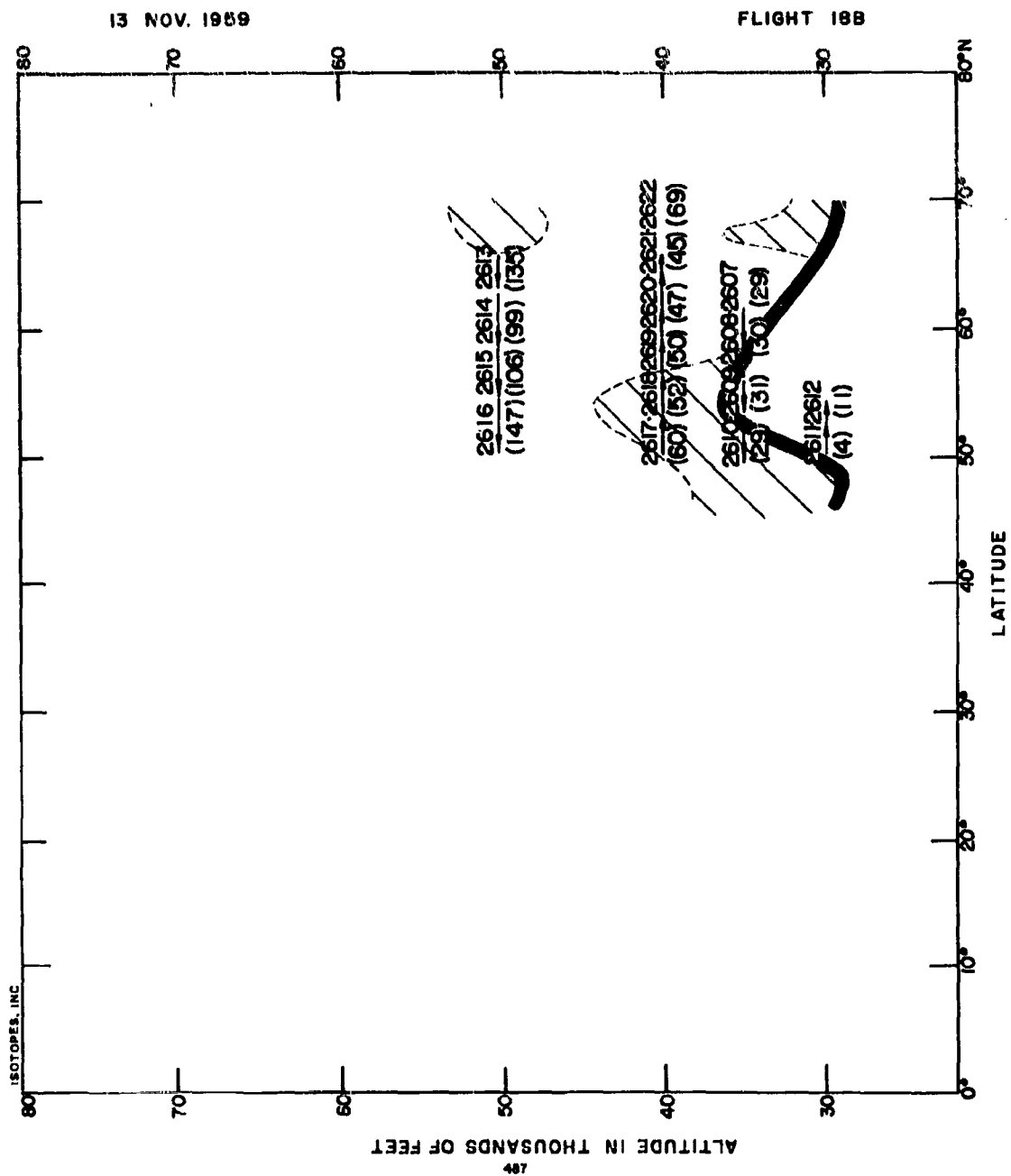


FIGURE 4.194 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
<u>17 November 1959 Mission 19</u>								
714 LN	2642	42°N	67.5	12,400	182 $\pm$ 1	666 $\pm$ 103	0.1	---
705	2643	26°N	63.8	9,400	152 $\pm$ 2	3030 $\pm$ 170	---	---
LS	2644	22°N	64.5	8,100	165 $\pm$ 2	3260 $\pm$ 220	---	---
	2645	18°N	65.2	8,300	145 $\pm$ 2	---	---	---
	2646	14°N	65.9	8,700	183 $\pm$ 1	4000 $\pm$ 270	---	---

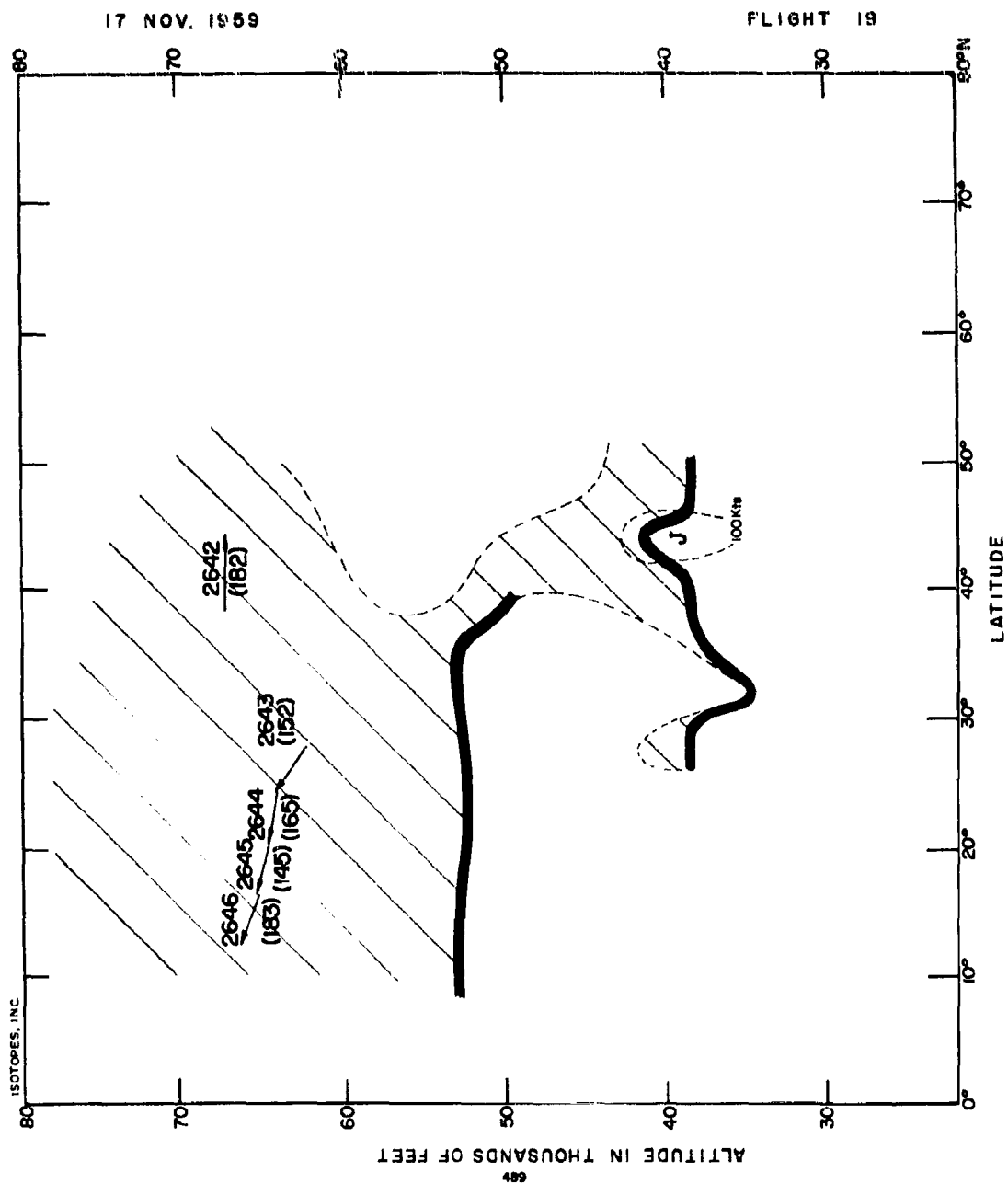


FIGURE 4.195 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr^{89} Sr^{90}	Ce^{144} Sr^{90}
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
<u>19 November 1959 Mission 20</u>								
716 MN	2651	52°N	45	3,300	53 ± 1	1430 ± 66	---	---
	2652	55°N	45	2,800	42 ± 1	1280 ± 73	---	---
	2653	58°N	45	3,300	54 ± 1	2100 ± 80	---	---
	2654	61°N	45	4,600	65 ± 1	---	---	---
	2655	64°N	45	4,500	72 ± 1	2030 ± 90	---	---
	2656	67°N	45	6,000	97 ± 2	2700 ± 70	---	---
	2647	65°N	55	8,500	149 ± 2	1800 ± 97	---	---
	2648	62°N	55	9,300	143 ± 4	1575 ± 118	---	---
	2649	57°N	55	7,400	118 ± 1	2100 ± 90	---	---
	2650	52°N	55	8,000	125 ± 1	2480 ± 130	---	---
717 MN	2657	53°N	60	7,000	103 ± 1	2700 ± 100	---	---
	2658	59°N	60	9,400	167 ± 20	2700 ± 230	---	8.0
	2659	64°N	60	9,300	153 ± 1	1425 ± 124	---	---
	2660	69°N	60	8,200	133 ± 1	≤ 600	0.5	---
714 LN	2661	30°N	65.5	8,800	148 ± 8	1800 ± 117	0.8	---
	2662	36°N	66	10,400	158 ± 2	1575 ± 121	0.8	---
	2663	42°N	66.6	10,400	191 ± 2	1875 ± 124	---	---
	2665	42°N	66.6	11,100	188 ± 10	1350 ± 112	---	---
	2664	47°N	67.4	11,900	178 ± 2	1650 ± 140	---	---
	2666	47°N	67.4	13,600	228 ± 10	2550 ± 120	---	---
	2667	47°N	67.8	13,000	263 ± 4	2030 ± 140	---	---
	2668	42°N	69	12,100	233 ± 7	1650 ± 129	---	---
	2669	36°N	69.9	12,700	228 ± 8	1650 ± 86	---	---
	2670	30°N	70.7	14,300	242 ± 12	2550 ± 170	---	---
705 LS	2671	26°N	60	6,100	98 ± 2	2700 ± 140	---	---
	2672	22°N	60	6,300	100 ± 5	2250 ± 330	0.3	---
	2673	18°N	60	5,100	80 ± 1	2330 ± 80	---	---
	2675	18°N	60	5,300	88 ± 3	2780 ± 90	---	---
	2674	14°N	60	5,000	92 ± 1	2250 ± 90	---	---
	2676	14°N	65	9,400	153 ± 2	3900 ± 120	0.8	---
	2677	18°N	65	8,900	145 ± 3	4950 ± 160	0.9	---
	2678	22°N	65.2	8,400	122 ± 1	2930 ± 130	3.7	---

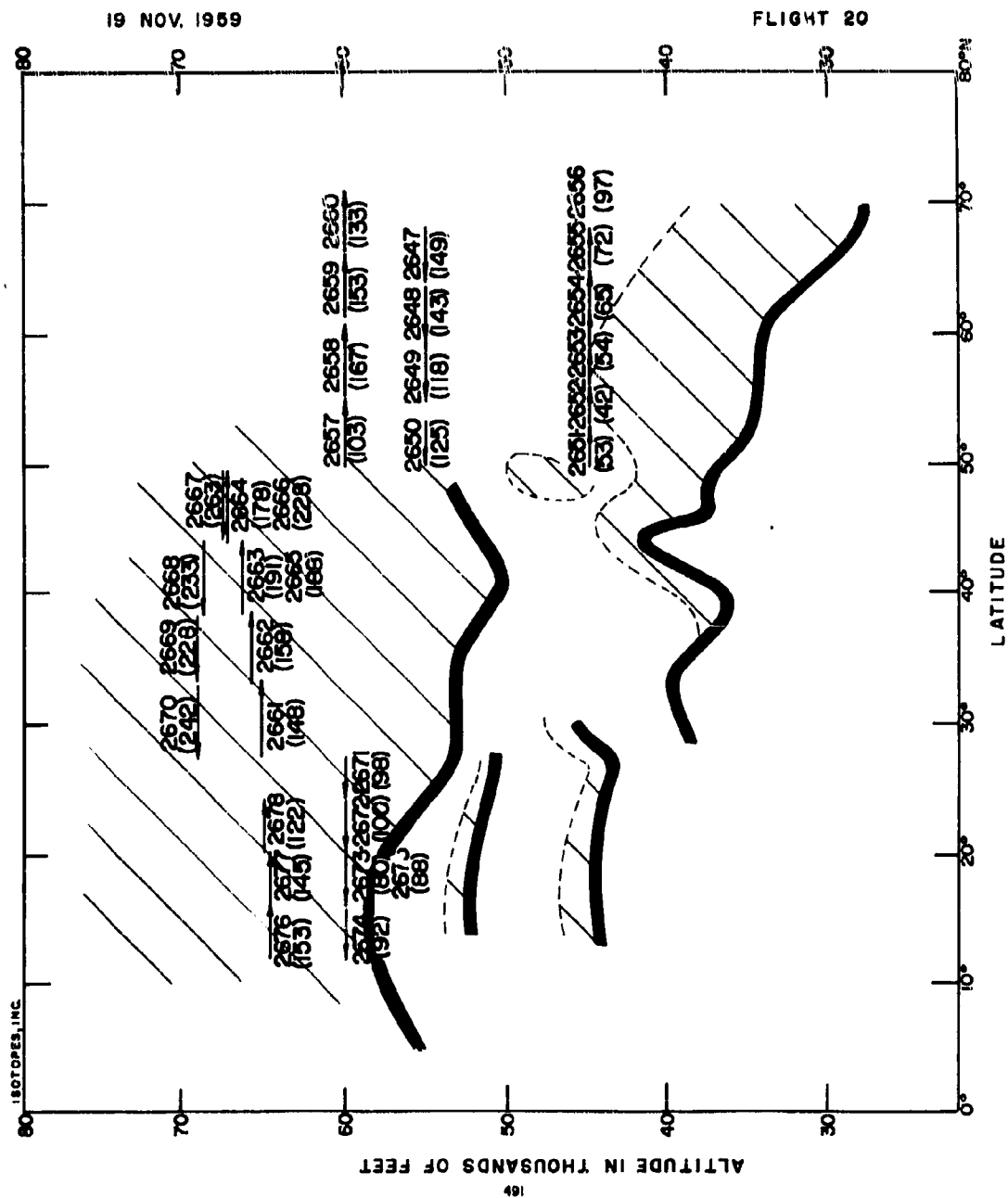


FIGURE 4196 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
24 November 1959 Mission 21A								
716	2683	51°N	30	< 260	4 ± 1	< 157	---	---
MN	2684	52°N	30	< 167	≤ 2	≤ 79	---	---
	2685	54°N	30	400	4 ± 1	315 ± 19	---	---
	2686	57°N	30	820	13 ± 1	550 ± 36	---	---
	2687	59°N	30	960	17 ± 1	707 ± 43	---	---
	2679	59°N	35	1,660	27 ± 1	1178 ± 98	---	---
	2680	57°N	35	< 1,450	21 ± 1	707 ± 89	---	---
	2681	54°N	35	< 770	11 ± 1	471 ± 46	---	---
	2682	51°N	35	< 610	7 ± 1	≤ 315	---	---
	2688	55°N	35	1,190	9 ± 1	550 ± 17	6.8	---
715	2693	51°N	39.5	2,600	28 ± 2	1492 ± 73	5.0	---
MN	2694	52°N	39.8	2,900	26 ± 1	1413 ± 89	3.8	---
	2689	54°N	40	2,600	20 ± 1	1099 ± 76	5.9	---
	2695	54°N	40	2,500	24 ± 1	1413 ± 42	6.2	---
	2690	54°N	50	6,600	74 ± 4	2280 ± 170	3.7	---
	2696	54°N	50	6,800	---	2280 ± 190	0.3	---
	2691	52°N	50	7,600	61 ± 2	2360 ± 170	6.2	---
	2697	52°N	50	7,300	---	2040 ± 170	---	---
	2692	50°N	50	6,600	71 ± 2	2120 ± 100	4.4	---
	2698	50°N	50	8,100	78 ± 1	2120 ± 110	---	---
718	2703	29°N	40	< 550	4 ± 1	1335 ± 93	---	---
LN	2704	32°N	40	< 103	1.4 ± 0.6	≤ 236	---	---
	2705	35°N	40	< 170	1.7 ± 0.2	≤ 157	---	---
	2706	37°N	40	< 920	9 ± 1	393 ± 59	---	---
	2707	40°N	40	2,000	33 ± 1	1256 ± 40	---	---
	2708	43°N	40	2,200	45 ± 1	1335 ± 80	---	---
	2699	42°N	45	3,200	61 ± 2	1492 ± 106	---	---
	2700	38°N	45	< 970	14 ± 1	471 ± 115	---	---
	2701	34°N	45	< 290	3 ± 1	≤ 314	---	---
	2702	30°N	45	< 167	1.2 ± 0.5	≤ 181	---	---

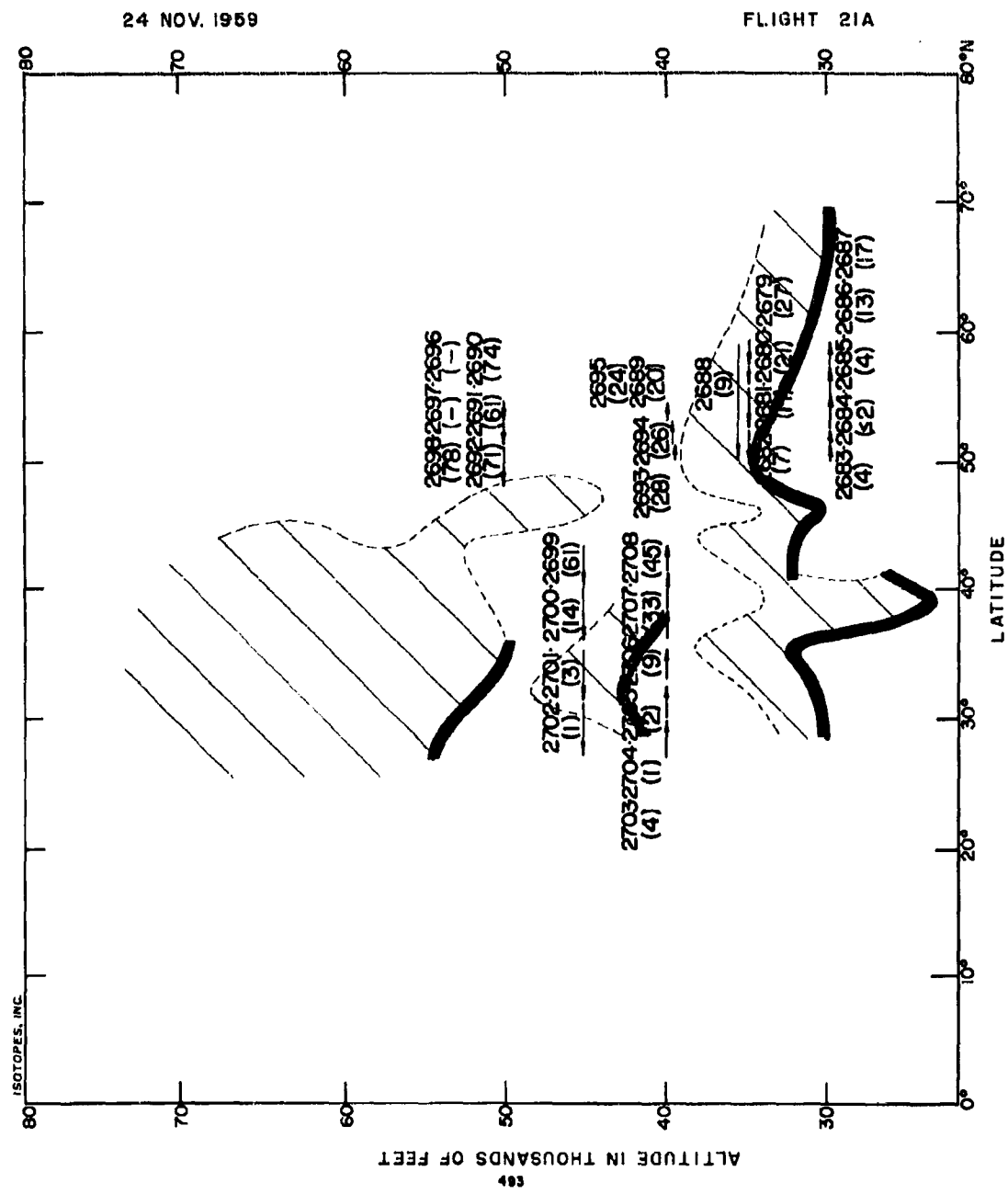


FIGURE 4.197 FLIGHT CROSS SECTION

Table 4.3 (continued)

		dpm/1000 SCF						
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Eta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>25 November 1959 Mission 21B</u>								
714	2709	30°N	50	< 240	3 + 1	632 + 83	---	---
LN	2710	35°N	50	< 400	4 + 1	< 316	---	---
	2711	40°N	50	1,660	26 ± 1	1106 + 56	0.8	---
	2713	40°N	50	1,950	32 ± 1	---	---	---
	2712	46°N	50	5,080	83 ± 3	---	0.6	3.5
	2714	46°N	50	6,400	83 ± 1	---	---	7.9
	2715	46°N	55	10,600	182 ± 5	632 + 36	---	6.5
	2716	40°N	55	5,400	91 ± 1	632 + 36	---	---
	2717	35°N	55	2,600	38 ± 1	632 + 36	---	---
	2718	30°N	55	6,100	85 ± 1	632 + 36	0.8	8.1

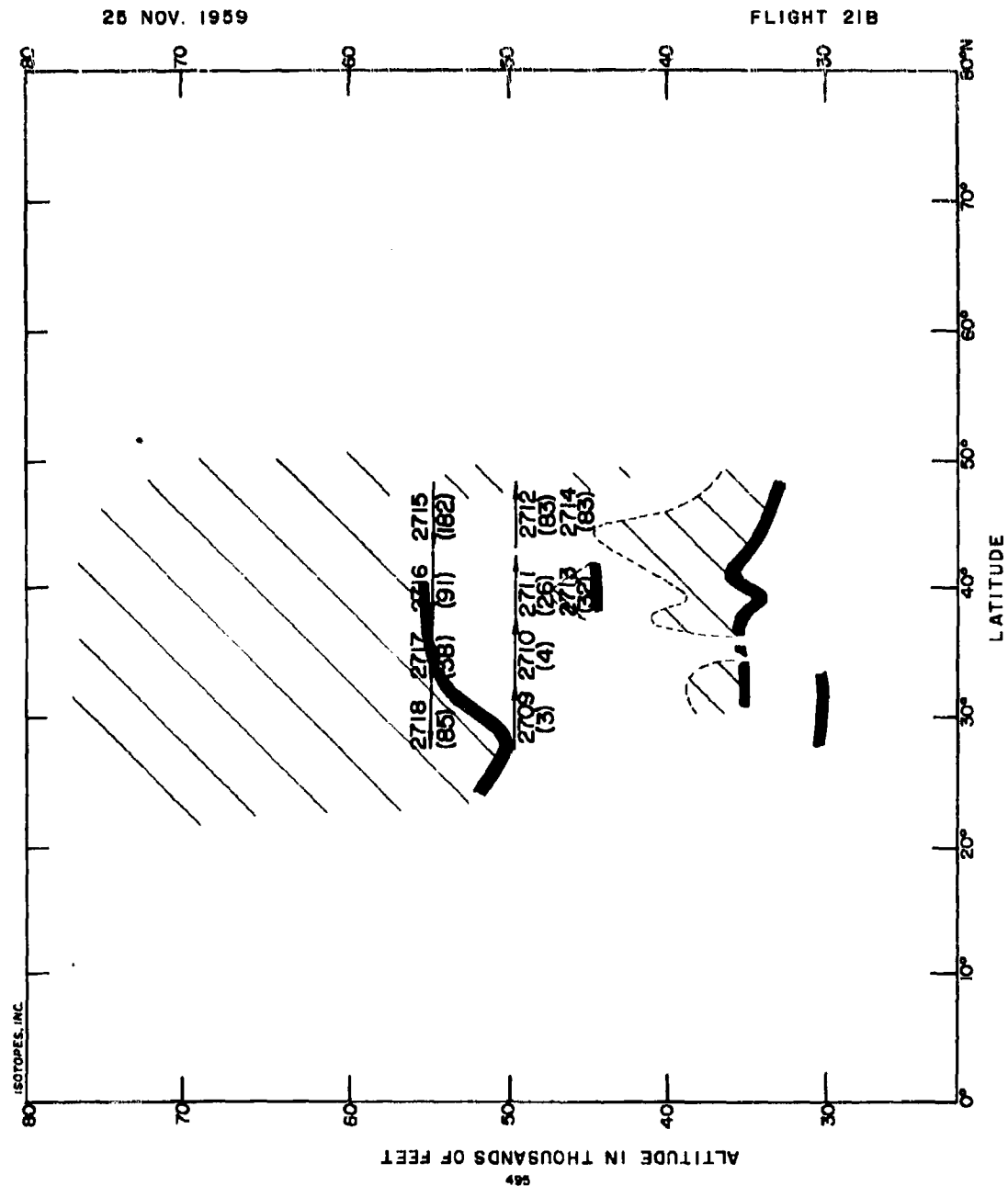


FIGURE 4.198 FLIGHT CROSS SECTION

Table 4.3 (continued)

		dpm/1000 SCF						
AC NO.	HASP No.	Latitude	Altitude	Total	Sr ⁹⁰	w ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Co ¹⁴⁴ Sr ⁸⁹
1 December 1959 Mission 22								
715 MN	2719	53°N	55	6,100	107 ± 1	2270 ± 60	---	---
	2720	59°N	55	8,000	135 ± 1	2270 ± 60	---	7.9
	2721	64°N	55	6,700	120 ± 4	2270 ± 60	---	---
	2723	64°N	55	9,900	161 ± 2	---	---	---
	2722	69°N	55	8,600	145 ± 2	2270 ± 60	---	8.1
	2724	69°N	55	10,400	173 ± 4	---	---	7.9
	2725	69°N	60	10,800	173 ± 2	2020 ± 80	---	0.4
	2726	64°N	60	10,900	196 ± 3	2020 ± 80	---	---
	2727	59°N	60	10,200	188 ± 7	2020 ± 80	---	6.6
	2728	53°N	60	10,000	153 ± 6	2020 ± 80	---	---
716 MN	2729	53°N	63.2	8,800	155 ± 2	---	---	---
	2730	59°N	64.6	9,700	172 ± 1	1680 ± 100	---	8.2
	2731	64°N	65.8	10,200	189 ± 1	1680 ± 100	---	---
	2733	64°N	65.8	12,300	198 ± 2	---	---	---
	2732	69°N	66.8	10,400	184 ± 1	1680 ± 100	---	8.0
	2734	69°N	66.8	14,400	228 ± 3	---	---	7.9
	2735	69°N	67.6	11,100	192 ± 6	924 ± 71	---	8.1
	2736	64°N	68.2	13,200	222 ± 1	924 ± 71	---	---
	2737	59°N	69.1	13,000	204 ± 7	924 ± 71	---	---
	2738	53°N	70.2	13,600	225 ± 3	924 ± 71	---	8.1
718 RO	2740	19°N	55.1	1,220	20 ± 1	672 ± 58	---	---
	2741	19°N	60	5,200	100 ± 1	1764 ± 99	---	---
	2742	19°N	65.2	11,000	207 ± 4	---	---	---
	2743	19°N	68	10,300	210 ± 1	1428 ± 91	---	---
	2739	19°N	69.9	10,500	179 ± 6	1596 ± 96	0.3	---
	2744	19°N	69.9	14,000	196 ± 2	2020 ± 150	---	---
714 RS	2745	12°N	60	4,100	66 ± 2	3020 ± 180	0.2	---
	2746	6°N	60	3,300	65 ± 3	2180 ± 180	---	---
	2747	1°N	60	3,700	60 ± 1	1764 ± 159	0.1	---
	2749	1°N	60	4,800	72 ± 1	3530 ± 120	---	---
	2748	5°S	60	2,900	46 ± 1	2440 ± 110	0.5	---
	2750	5°S	60	2,800	54 ± 2	3020 ± 140	---	---
	2751	5°S	65	6,000	106 ± 1	4620 ± 180	0.3	---
	2752	1°N	65	7,400	107 ± 1	5040 ± 160	0.2	---
	2753	6°N	65	8,700	156 ± 2	---	---	---
	2754	12°N	65	9,900	166 ± 3	---	0.2	---
705 RS	2755	12°N	64.8	8,900	146 ± 16	4120 ± 160	0.3	6.9
	2756	6°N	65.6	8,200	140 ± 2	3530 ± 170	---	---
	2757	1°N	66.1	8,000	142 ± 1	---	---	---
	2759	1°N	66.1	10,700	152 ± 4	4370 ± 150	---	---
	2758	5°S	66.5	7,900	150 ± 5	4120 ± 160	---	---
	2760	5°S	66.5	8,800	169 ± 3	6300 ± 200	---	---
	2761	5°S	66.5	8,700	181 ± 4	5380 ± 200	0.2	---
	2762	1°N	67.8	12,600	213 ± 2	6550 ± 230	---	---
	2763	6°N	68.8	13,000	210 ± 10	5880 ± 150	0.8	---
	2764	12°N	69.2	14,900	205 ± 1	5120 ± 210	---	---

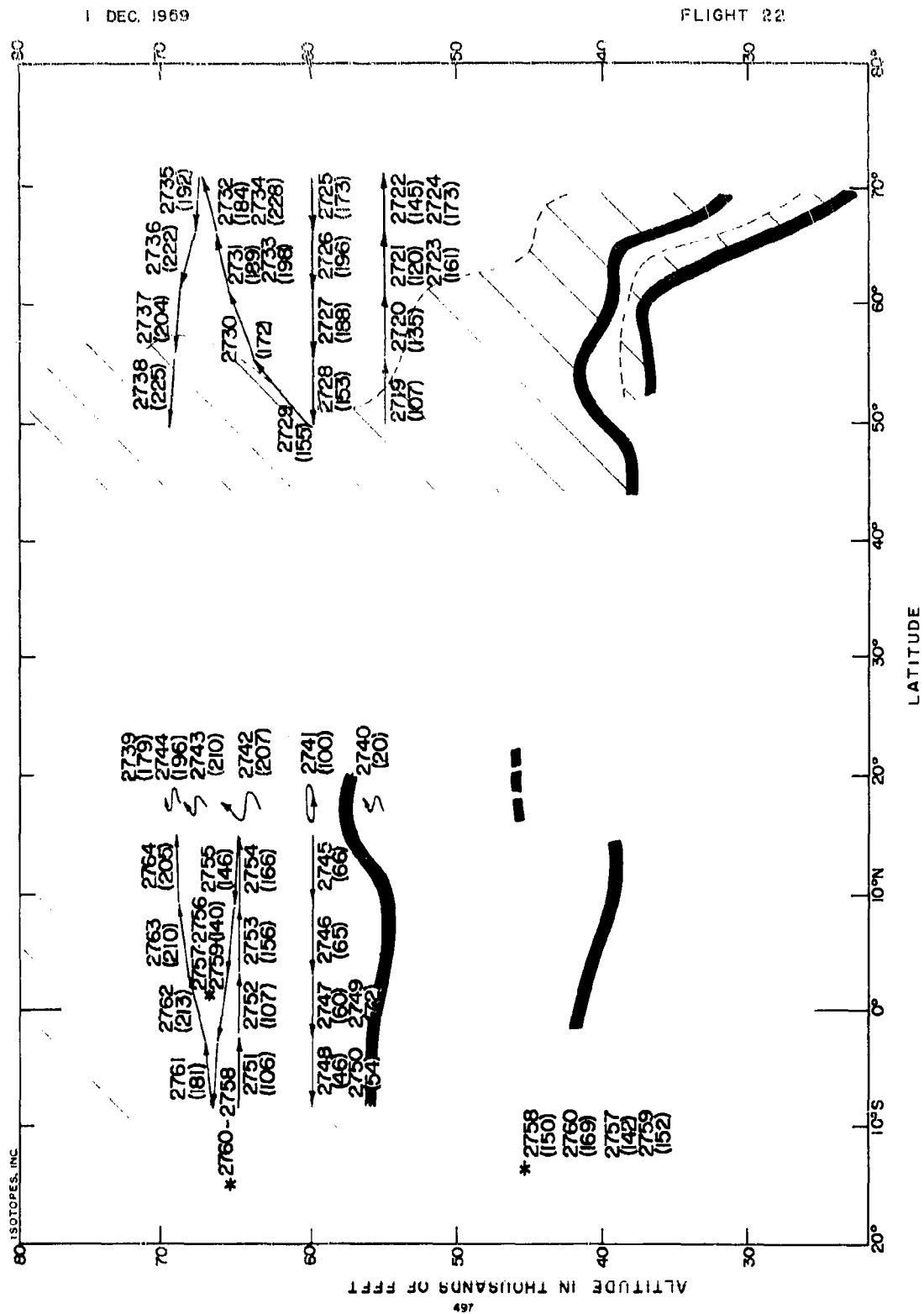


FIGURE 4.199 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
3 December 1959 Mission 23								
715	2769	52°N	45	1,940	27 ± 1	---	---	---
MN	2770	55°N	45	3,000	60 ± 1	---	---	6.1
	2771	58°N	45	5,700	83 ± 5	2580 ± 40	---	8.0
	2772	61°N	45	5,400	82 ± 1	2580 ± 40	---	---
	2773	64°N	45	6,500	119 ± 2	2580 ± 40	---	---
	2774	67°N	45	6,600	107 ± 2	2580 ± 40	---	8.5
	2765	66°N	55	7,800	142 ± 1	1720 ± 60	---	7.9
	2766	62°N	55	9,000	167 ± 1	1720 ± 60	---	---
	2767	57°N	55	7,400	117 ± 65	1720 ± 60	---	8.4
	2768	53°N	55	5,800	98 ± 1	1720 ± 60	---	---
716	2775	53°N	60	9,500	135 ± 4	---	---	---
MN	2776	59°N	60	9,800	144 ± 4	---	---	7.0
	2777	63°N	60	8,900	150 ± 2	---	---	---
	2779	63°N	60	9,300	153 ± 4	---	---	---
	2778	69°N	60	8,400	141 ± 2	---	---	8.8
	2780	69°N	60	10,100	176 ± 1	---	---	9.1
	2781	69°N	65	10,300	173 ± 1	1204 ± 64	---	10
	2782	64°N	65.1	13,400	171 ± 4	1204 ± 64	---	---
	2783	58°N	65.2	11,500	218 ± 6	1204 ± 64	---	8.1
	2784	53°N	65.2	10,300	210 ± 6	1204 ± 64	---	---
714	2785	12°N	60	3,100	49 ± 1	2240 ± 80	---	---
RS	2786	6°N	60	2,500	46 ± 1	2240 ± 80	---	---
	2787	1°N	60	3,100	44 ± 1	2240 ± 80	---	---
	2789	1°N	60	2,700	48 ± 1	---	---	---
	2788	5°S	60	2,300	43 ± 2	2240 ± 80	---	---
	2790	5°S	60	3,000	48 ± 1	---	---	---
	2791	5°S	65	7,000	101 ± 2	---	---	7.4
718	2792	12°N	65.6	8,100	164 ± 1	4560 ± 110	---	---
RS	2793	6°N	66.4	8,700	178 ± 3	4560 ± 110	---	---
	2794	1°N	67.2	7,900	115 ± 13	4560 ± 110	---	7.2
	2796	1°N	67.2	7,600	160 ± 3	---	---	6.2
	2795	5°S	67.7	8,300	154 ± 4	4560 ± 110	---	---
	2797	5°S	67.7	9,300	163 ± 2	---	---	---
	2798	5°S	68.5	10,900	168 ± 1	5850 ± 170	---	6.6
	2799	1°N	69.1	10,300	192 ± 3	5850 ± 170	---	---
	2800	5°N	69.5	13,500	241 ± 3	5850 ± 170	---	8.4

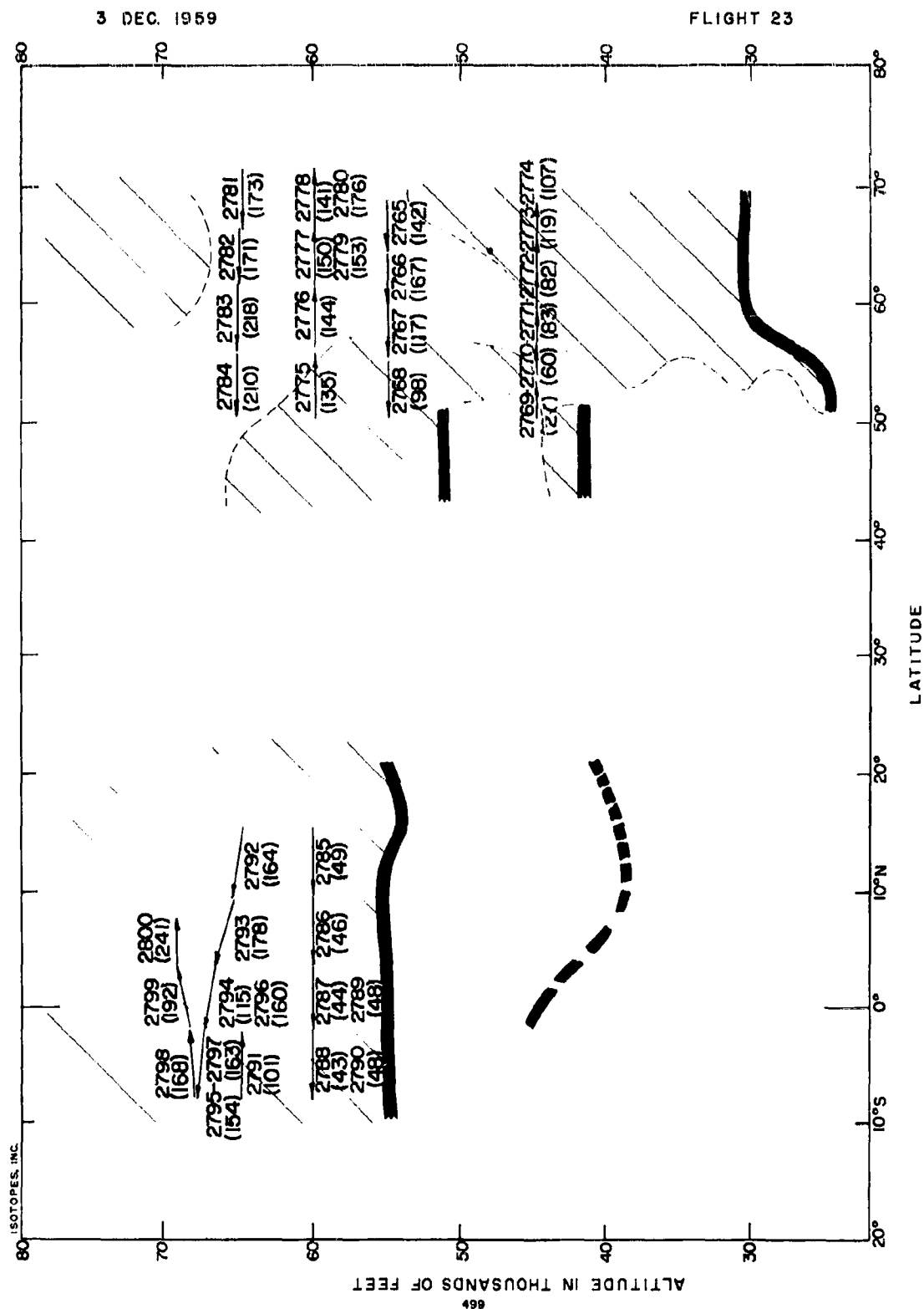


FIGURE 4.200 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
8 December 1959 Mission 24A								
714	2806	42°N	45	2,000	34 ± 1	720 ± 40	---	8.5
LN	2807	38°N	45	1,570	25 ± 1	720 ± 40	---	7.9
	2808	34°N	45	< 850	11 ± 1	720 ± 40	---	---
705	2811	30°N	50	< 660	10 ± 1	---	---	---
LN	2812	35°N	50	1,070	21 ± 1	1440 ± 60	---	8.2
	2813	40°N	50	3,400	54 ± 1	1440 ± 60	---	---
	2815	40°N	50	3,600	58 ± 1	---	---	---
	2814	46°N	50	5,400	90 ± 2	1440 ± 60	---	7.0
	2816	46°N	50	5,800	100 ± 1	---	---	7.5
	2817	46°N	55.5	10,700	122 ± 1	2250 ± 50	---	9.2
	2818	40°N	55.5	6,600	109 ± 1	2250 ± 50	---	---
	2819	35°N	55.5	6,000	95 ± 1	2250 ± 50	---	8.2
	2820	30°N	55.5	4,700	74 ± 2	2250 ± 50	---	---
718	2801	29°N	55	4,100	69 ± 2	---	---	---
LO	2802	29°N	60	6,300	113 ± 3	---	---	8.0
	2803	29°N	65	9,300	162 ± 3	---	---	7.6
	2804	29°N	68.3	10,900	166 ± 4	---	---	8.9
	2805	29°N	69.9	13,200	190 ± 12	---	---	8.4

8 DEC. 1969

FLIGHT 24A

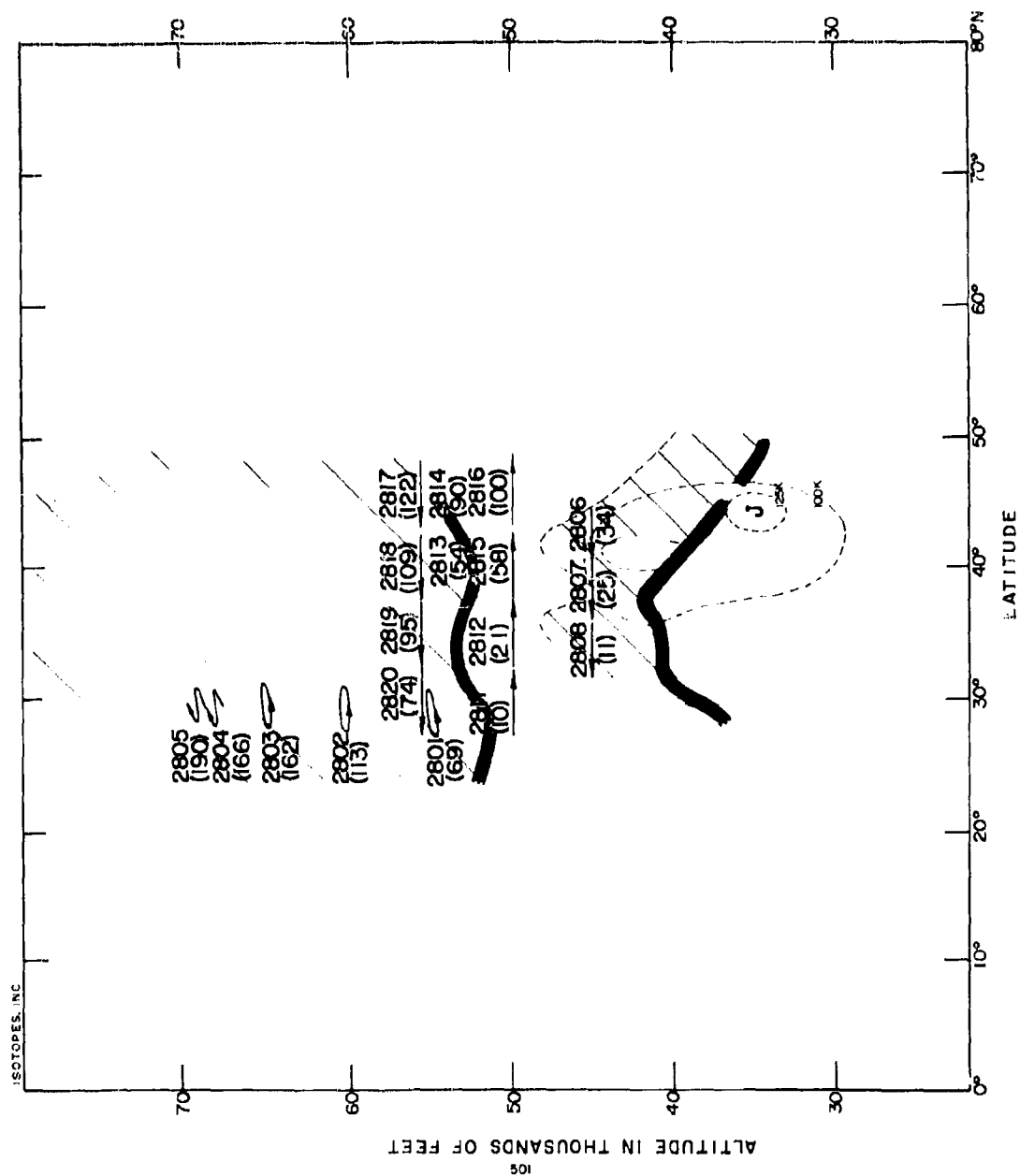


FIGURE 4.201 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr^{89} Sr90	Ce^{144} Sr90
				Total Beta	Sr90	W185 (Aug 58)		
9 December 1959 Mission 24B								
716	2825	51°N	30	< 139	3 ± 1	< 182	---	---
MN	2821	60°N	35	1,300	19 ± 1	819 ± 48	0.5	---
	2822	57°N	35	1,190	19 ± 1	728 ± 43	---	---
	2823	54°N	35	< 940	13 ± 2	455 ± 81	---	---
	2824	51°N	35	< 480	4 ± 1	< 182	---	---
715	2830	52°N	40	1,330	28 ± 1	819 ± 43	---	---
MN	2831	56°N	40	1,980	38 ± 1	1001 ± 60	---	---
	2832	58°N	40	2,100	35 ± 1	910 ± 30	---	---
	2833	60°N	40	2,900	49 ± 1	---	---	---
	2834	63°N	40	3,000	58 ± 3	3550 ± 60	---	---
	2835	66°N	40	3,300	73 ± 2	728 ± 91	---	---
	2826	65°N	50	6,700	137 ± 2	---	---	---
	2827	61°N	50	6,100	124 ± 2	2000 ± 120	---	---
	2828	57°N	50	5,300	83 ± 2	1729 ± 105	---	---
	2829	51°N	50	2,900	40 ± 1	728 ± 63	---	---

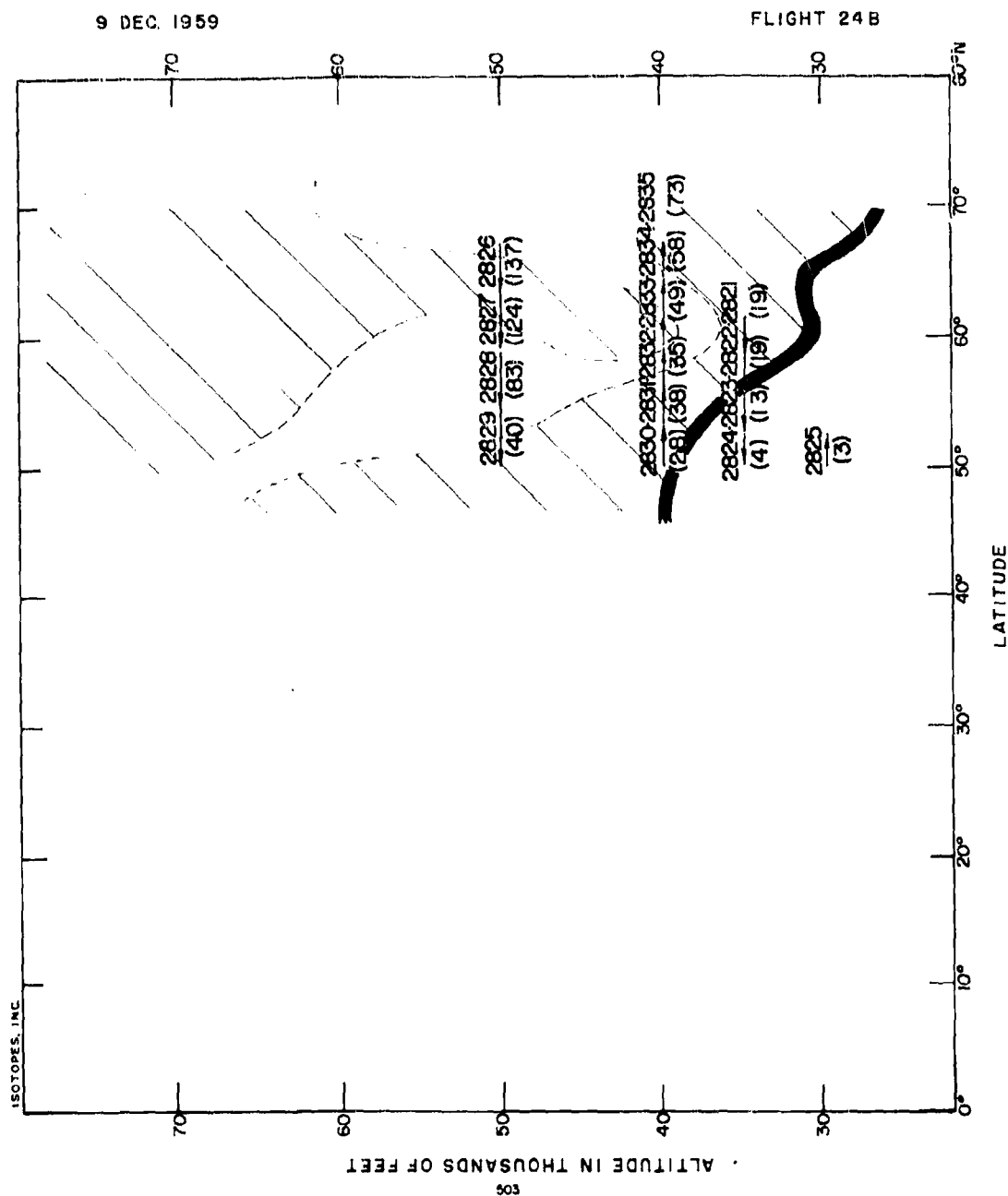


FIGURE 4.202 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>10 December 1959 Mission 25A</u>								
718	2843	30°N	64.9	8,400	165 $\pm$ 1	2890 $\pm$ 180	0.2	---
LN	2847	30°N	64.9	9,200	175 $\pm$ 3	1932 $\pm$ 135	---	---
	2844	36°N	65.6	9,600	187 $\pm$ 4	5980 $\pm$ 180	0.1	---
	2845	42°N	67.3	14,100	217 $\pm$ 3	2210 $\pm$ 160	---	---
	2846	47°N	66.9	12,300	183 $\pm$ 4	2480 $\pm$ 170	---	---
	2848	47°N	66.9	13,700	199 $\pm$ 9	1196 $\pm$ 141	0.9	---
	2849	47°N	68	13,600	216 $\pm$ 5	1012 $\pm$ 179	---	---
	2850	42°N	68.8	13,400	237 $\pm$ 1	1472 $\pm$ 162	---	---
	2851	36°N	69.3	11,500	223 $\pm$ 5	2480 $\pm$ 270	---	---
	2852	30°N	70.2	11,500	191 $\pm$ 2	1196 $\pm$ 200	0.1	---
705	2836	27°N	64.2	6,400	109 $\pm$ 1	2940 $\pm$ 210	---	---
LS	2837	22°N	65.4	7,800	144 $\pm$ 1	2120 $\pm$ 220	---	---
	2838	18°N	66	8,400	120 $\pm$ 5	2300 $\pm$ 400	0.7	---
	2840	18°N	66	8,200	141 $\pm$ 1	2670 $\pm$ 160	---	---
	2839	14°N	66.4	8,300	149 $\pm$ 1	2670 $\pm$ 330	0.3	---
	2841	14°N	66.6	9,200	173 $\pm$ 5	2390 $\pm$ 150	---	---
	2842	22°N	68.5	9,000	153 $\pm$ 1	2020 $\pm$ 200	---	---

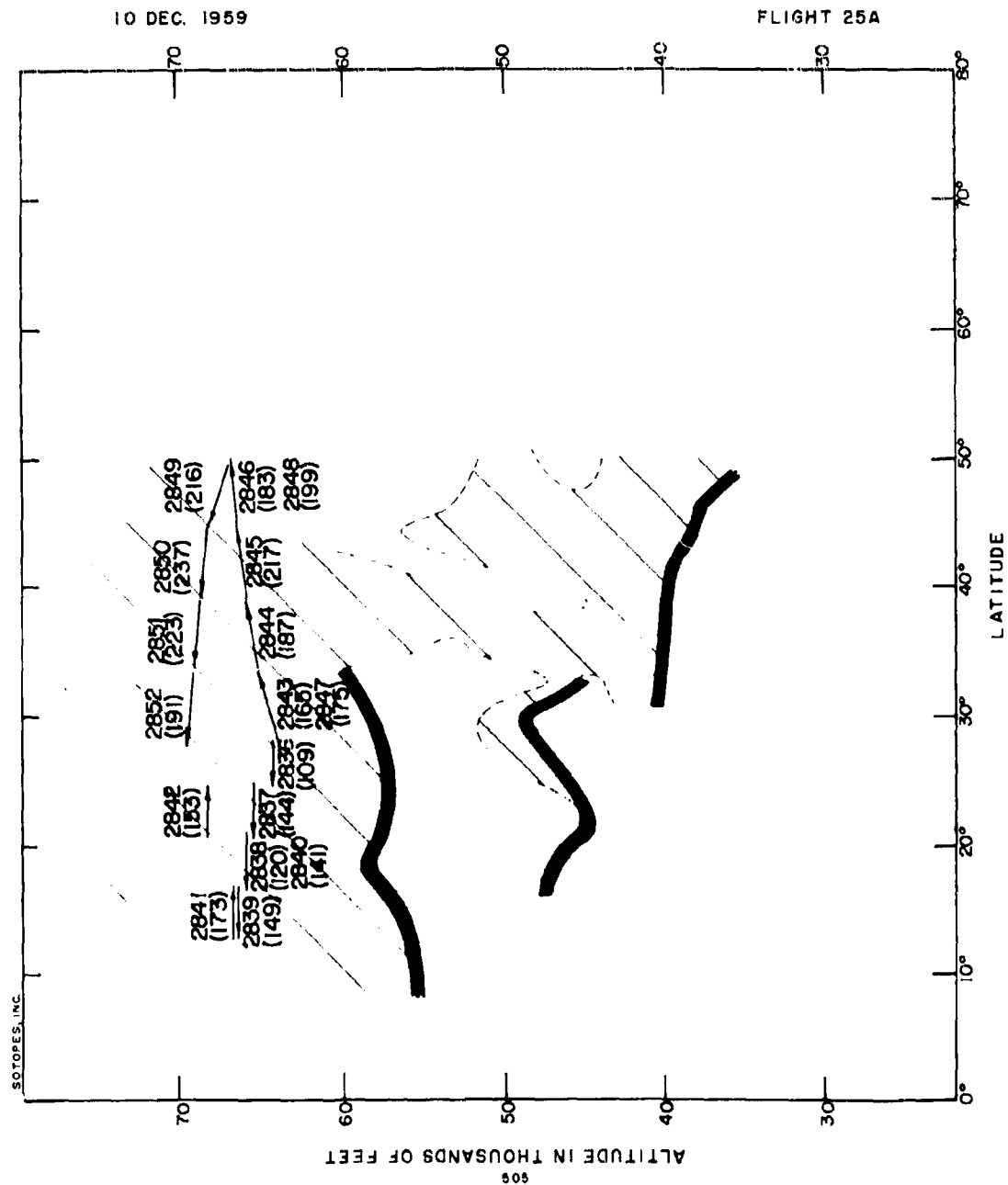


FIGURE 4.203 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>11 December 1959 Mission 25B</u>								
715	2853	53°N	55	4,700	92 ± 2	1674 ± 54	---	---
MN	2854	58°N	55	5,700	109 ± 2	1953 ± 74	---	---
	2855	64°N	55	7,100	150 ± 9	1860 ± 140	0.1	6.8
	2857	64°N	55	8,500	161 ± 1	---	---	---
	2856	69°N	55	7,200	136 ± 5	---	---	---
	2858	69°N	55	8,900	163 ± 2	---	0.7	---
	2859	69°N	60	10,500	203 ± 8	1302 ± 115	---	---
	2860	64°N	60	10,400	199 ± 4	1116 ± 78	---	---
	2861	59°N	60	11,100	179 ± 1	837 ± 72	---	---
	2862	53°N	60	11,400	168 ± 1	1302 ± 98	---	---
716	2863	53°N	63.2	9,300	142 ± 6	1116 ± 140	---	---
MN	2864	59°N	64.5	9,300	166 ± 5	930 ± 150	---	---
	2865	64°N	65.4	10,600	166 ± 1	1023 ± 75	0.4	---
	2867	64°N	65.4	11,400	197 ± 1	1209 ± 93	---	---
	2866	69°N	66.3	12,800	166 ± 6	558 ± 95	0.1	---
	2868	69°N	66.3	15,600	202 ± 3	< 744	---	---
	2869	69°N	66.8	17,700	227 ± 2	< 279	---	---
	2870	64°N	67.9	15,100	212 ± 4	< 930	0.2	---
	2871	59°N	69.4	12,900	208 ± 1	< 1209	---	---
	2872	53°N	70	19,100	234 ± 5	< 558	---	---

11 DEC. 1969

FLIGHT 258

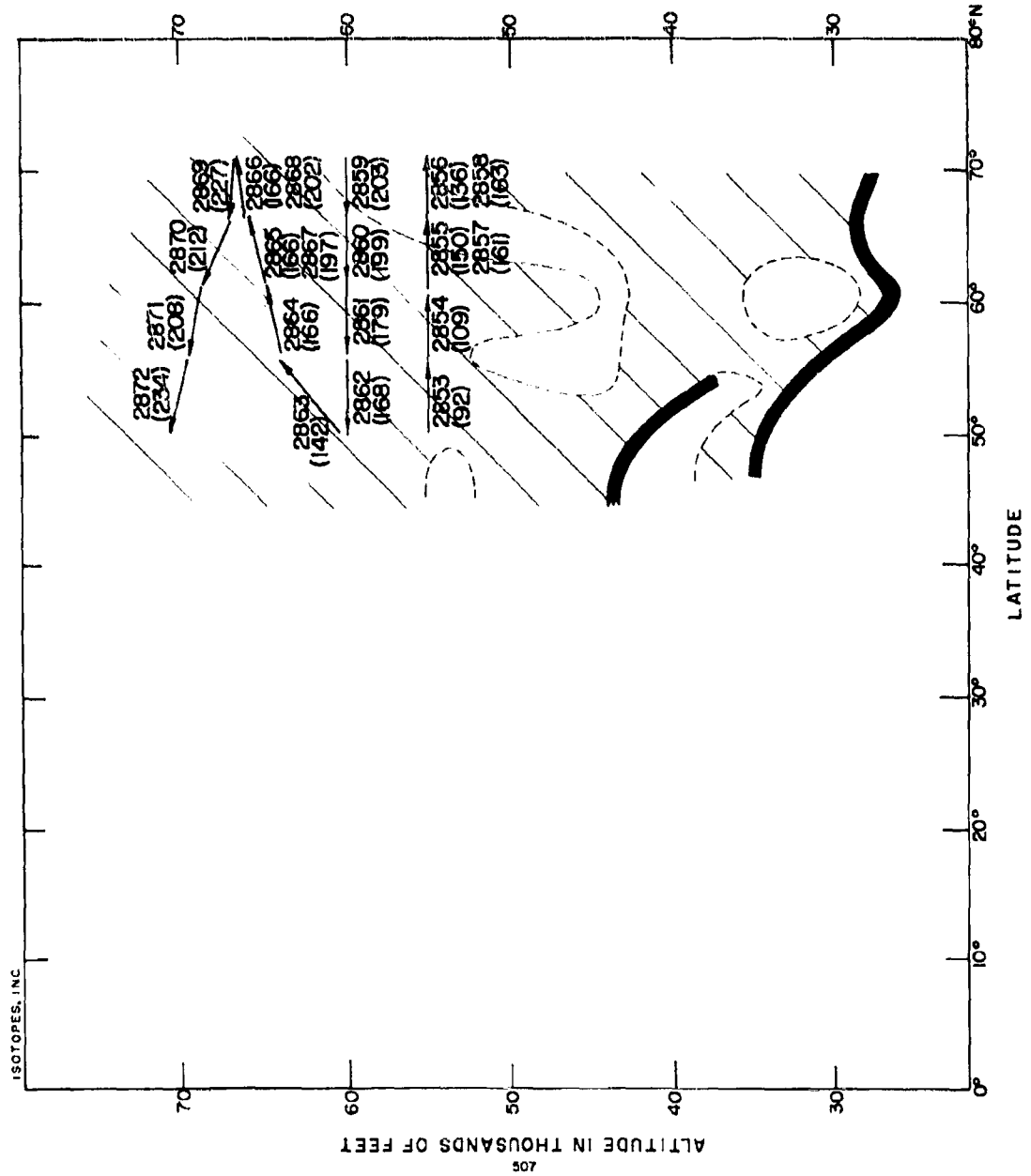


FIGURE 4.204 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
15 December 1959 Mission 26A								
716	2877	52°N	45	2,800	50 $\pm$ 2	1536 $\pm$ 46	---	7.9
MN	2878	55°N	45	3,400	61 $\pm$ 2	1536 $\pm$ 46	---	---
	2879	58°N	45	3,600	53 $\pm$ 1	1536 $\pm$ 46	---	---
	2880	61°N	45	3,700	51 $\pm$ 1	1536 $\pm$ 65	---	---
	2881	64°N	45	4,800	67 $\pm$ 1	1536 $\pm$ 65	---	---
	2882	67°N	45	4,100	41 $\pm$ 1	1536 $\pm$ 65	---	15
	2873	66°N	55	10,100	144 $\pm$ 3	1536 $\pm$ 57	---	6.8
	2874	62°N	55.5	8,400	133 $\pm$ 3	1536 $\pm$ 57	---	---
	2875	58°N	55.5	7,000	122 $\pm$ 4	1536 $\pm$ 57	---	---
	2876	52°N	55.5	6,400	122 $\pm$ 2	1536 $\pm$ 57	---	8.1
715	2883	53°N	60	6,500	133 $\pm$ 1	1632 $\pm$ 75	---	---
MN	2884	59°N	60	9,300	194 $\pm$ 2	1632 $\pm$ 75	---	7.0
	2885	64°N	60.2	10,000	173 $\pm$ 8	1632 $\pm$ 75	---	---
	2886	69°N	60.5	10,700	211 $\pm$ 3	1632 $\pm$ 75	---	7.7

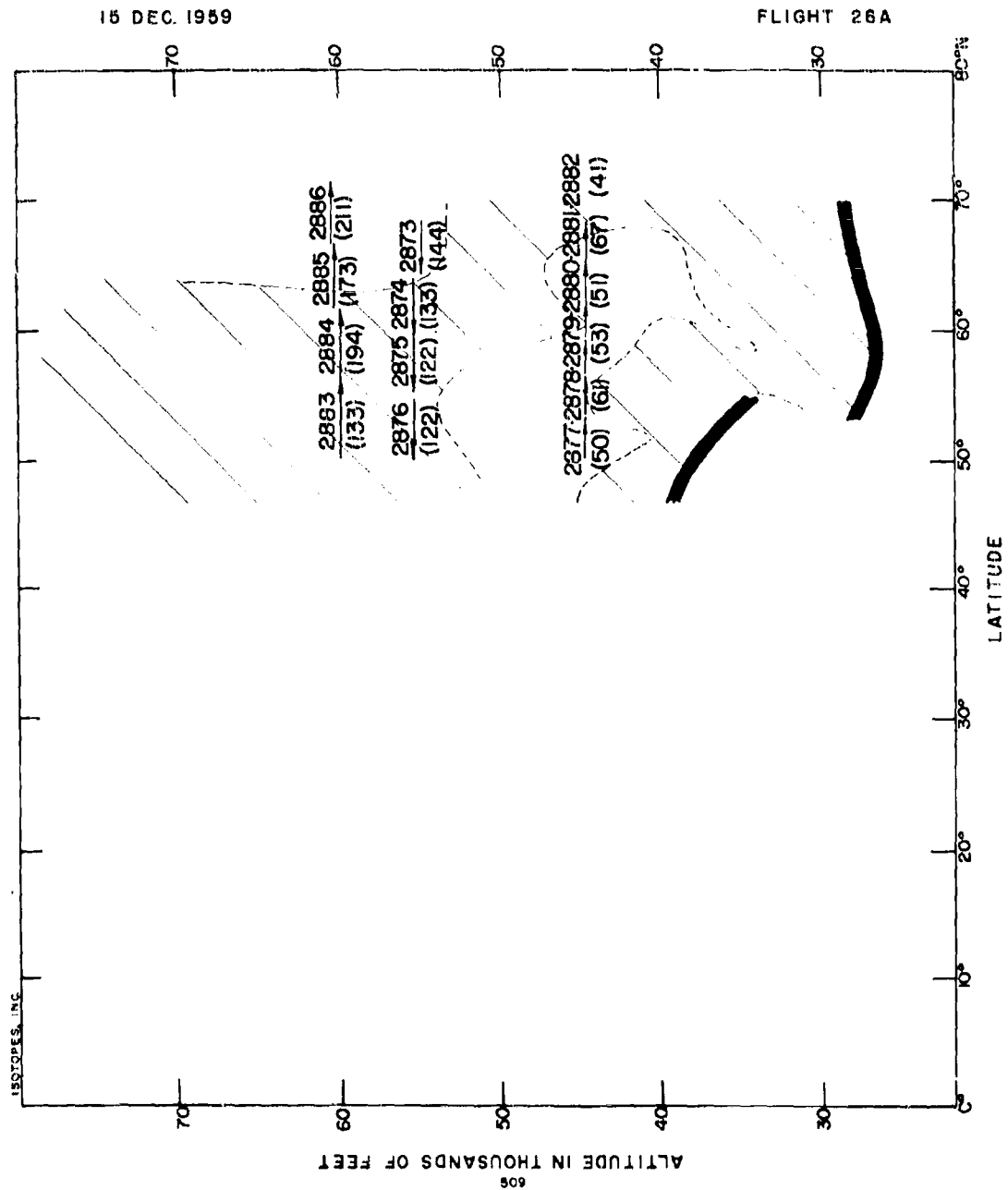


FIGURE 4.205 FLIGHT CROSS SECTION

Table 4.3 (continued)

				dpm/1000 SCF				
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>16 December 1959 Mission 26B</u>								
718	2887	30°N	59.5	6,600	115 ± 3	2230 ± 200	0.2	---
LN	2888	36°N	59.5	6,900	134 ± 5	2330 ± 100	---	---
	2889	42°N	59.5	9,200	146 ± 2	3100 ± 100	0.4	---
	2891	42°N	59.5	9,000	171 ± 9	3010 ± 120	0.1	---
	2890	47°N	59.5	9,200	151 ± 2	3100 ± 200	---	---
	2892	47°N	59.5	7,900	157 ± 3	2520 ± 170	---	---
	2893	47°N	65.2	12,000	208 ± 2	2520 ± 340	---	---
	2894	42°N	65.2	11,100	184 ± 3	2720 ± 130	---	---
	2895	36°N	65.2	10,700	193 ± 9	≤ 2130	---	---
	2896	30°N	65.2	9,800	139 ± 2	2330 ± 310	0.4	---
714	2897	26°N	60	5,700	95 ± 1	≤ 2040	0.4	---
LS	2898	22°N	60	3,000	70 ± 1	1940 ± 110	---	---
	2899	18°N	60	1,970	32 ± 1	2040 ± 120	---	---

16 DEC. 1959

FLIGHT 268

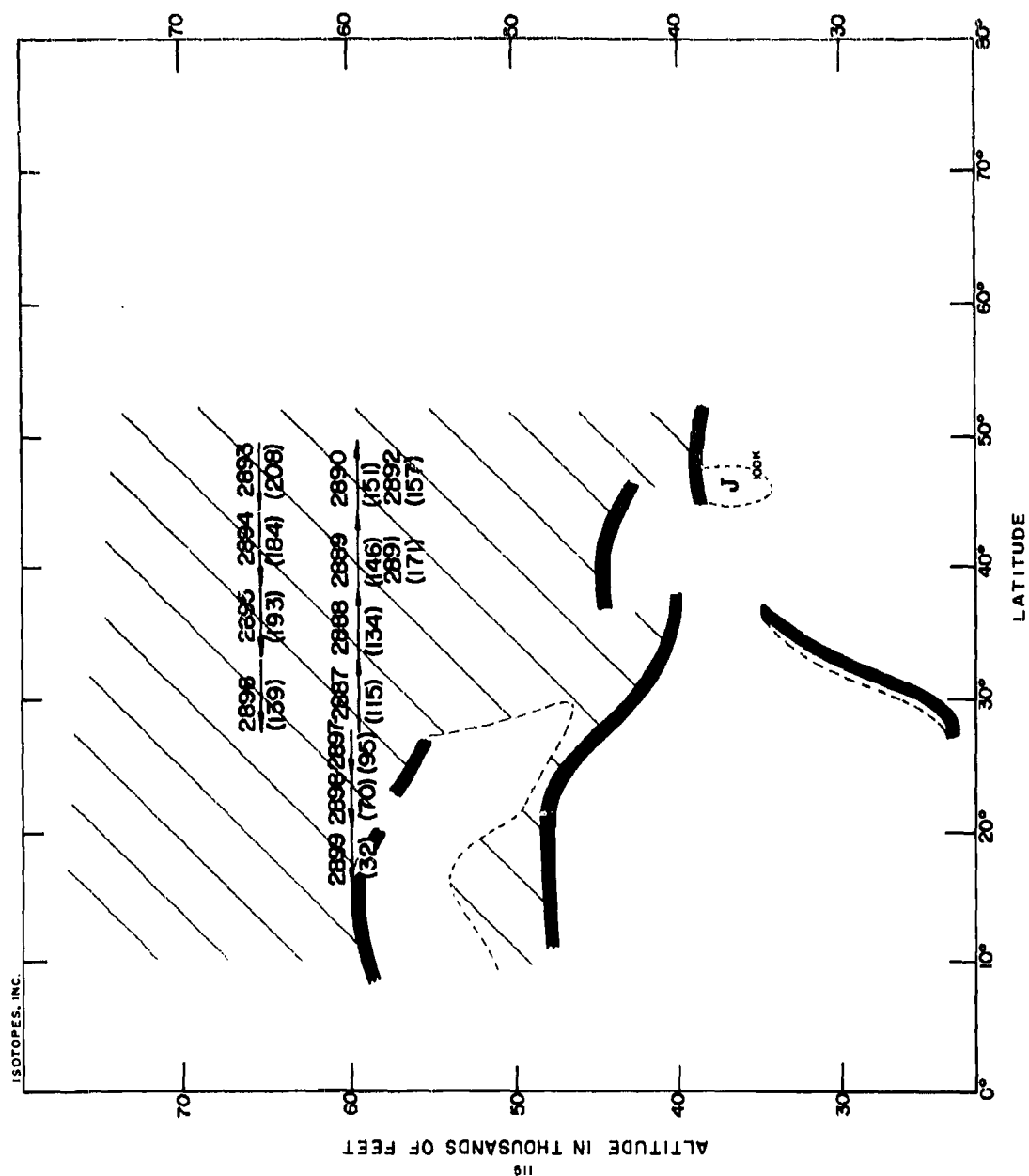


FIGURE 4.206 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
17 December 1959 Mission 27A								
715	2904	52°N	50	6,200	126 ± 4	2250 ± 70	---	6.2
MN	2905	56°N	50	6,000	121 ± 1	2250 ± 70	---	---
	2906	59°N	50	5,700	94 ± 1	2250 ± 70	---	---
	2907	63°N	50	7,100	113 ± 2	2450 ± 80	---	7.6
	2908	66°N	50	7,200	148 ± 3	2450 ± 80	---	---
	2909	69°N	50	9,100	184 ± 4	2450 ± 80	---	7.0
	2900	68°N	55	8,200	148 ± 2	4210 ± 150	---	---
	2901	63°N	55	7,700	158 ± 3	4210 ± 150	---	---
	2902	58°N	55	7,000	141 ± 2	4210 ± 150	---	---
	2903	53°N	55	8,800	163 ± 1	4210 ± 150	---	---
716	2914	52°N	59.5	9,700	153 ± 3	3040 ± 120	---	8.5
MN	2915	56°N	60	11,300	213 ± 2	3040 ± 120	---	---
	2916	60°N	60	10,600	220 ± 4	3040 ± 120	---	---
	2917	63°N	60	14,200	212 ± 3	1568 ± 314	---	---
	2918	67°N	60	14,700	220 ± 1	1568 ± 314	---	---
	2919	70°N	60	15,400	230 ± 1	1568 ± 314	---	8.2
	2910	69°N	65	11,300	182 ± 3	882 ± 81	---	9.5
	2911	64°N	67.3	14,600	180 ± 2	882 ± 81	---	---
	2912	58°N	68.3	16,200	207 ± 2	882 ± 81	---	---
	2913	53°N	69.3	16,400	231 ± 1	882 ± 81	---	11

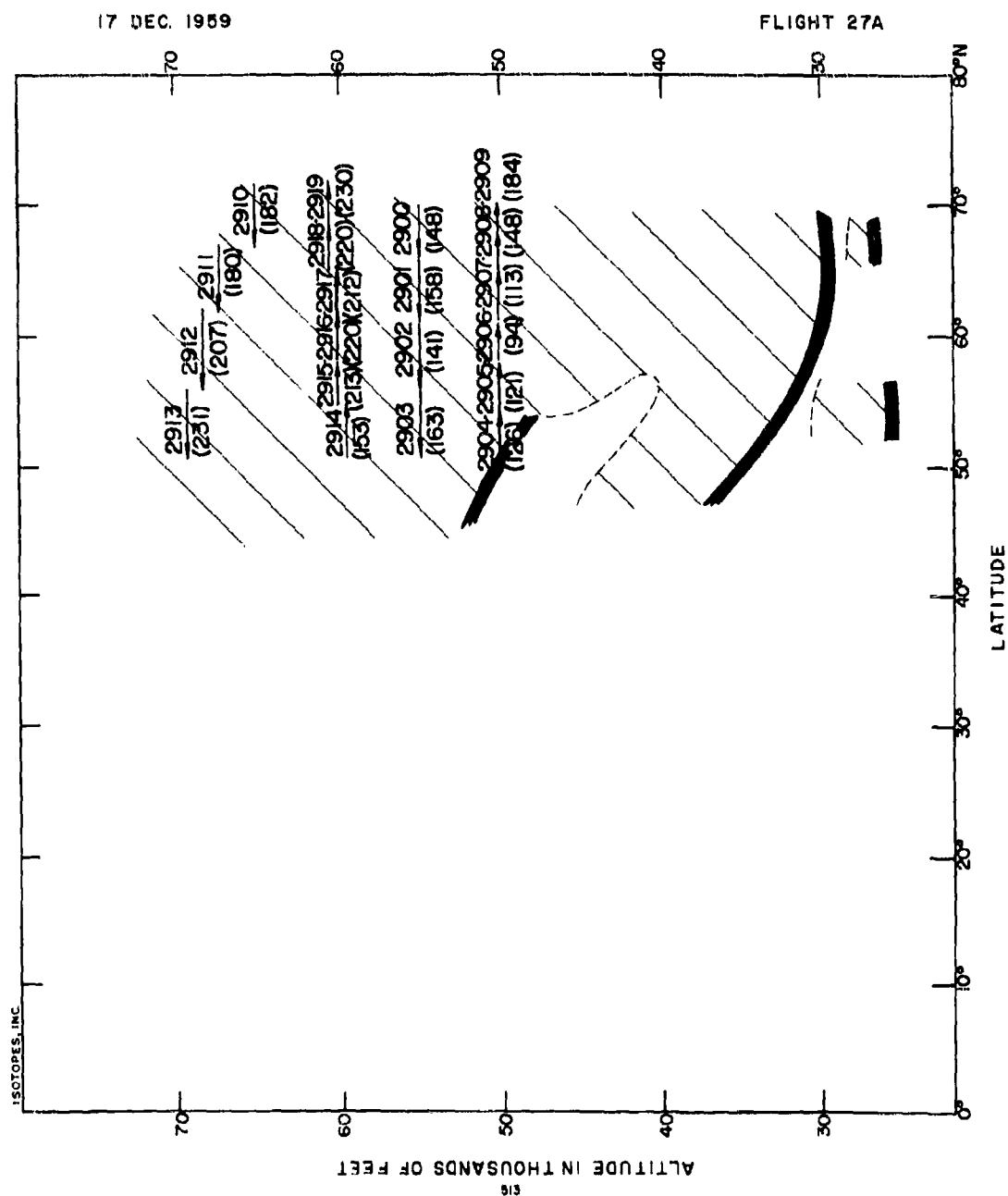


FIGURE 4.207 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
<u>18 December 1959 Mission 27B</u>								
718	2934	28°N	40	< 320	4 ± 1	---	---	---
LN	2935	32°N	40	< 390	1.7 ± 0.5	---	---	---
	2936	35°N	40	< 590	9 ± 1	594 ± 48	---	---
	2937	37°N	40	880	14 ± 1	594 ± 48	---	---
	2938	40°N	40	1,100	17 ± 1	594 ± 48	---	---
	2939	43°N	40	1,300	22 ± 1	594 ± 48	---	---
	2930	42°N	45	< 430	3 ± 1	---	---	---
	2931	38°N	45	< 330	< 0.8	---	---	---
	2932	34°N	45	< 260	< 1.0	---	---	---
	2933	30°N	45	< 430	< 1.7	---	---	---
705	2921	30°N	50	< 380	5 ± 1	---	---	---
LN	2922	35°N	50	470	7 ± 1	---	---	---
	2923	40°N	50	750	13 ± 1	---	---	---
	2925	40°N	50	940	15 ± 1	---	---	---
	2924	46°N	50	1,680	29 ± 1	---	---	8.2
	2926	46°N	50	2,400	36 ± 1	---	---	7.8
	2927	46°N	55.5	6,400	108 ± 1	---	---	3.4
	2928	40°N	55.5	2,900	57 ± 1	---	---	---
	2929	35°N	55.5	1,660	78 ± 1	---	---	---

18 DEC. 1969

FLIGHT 278

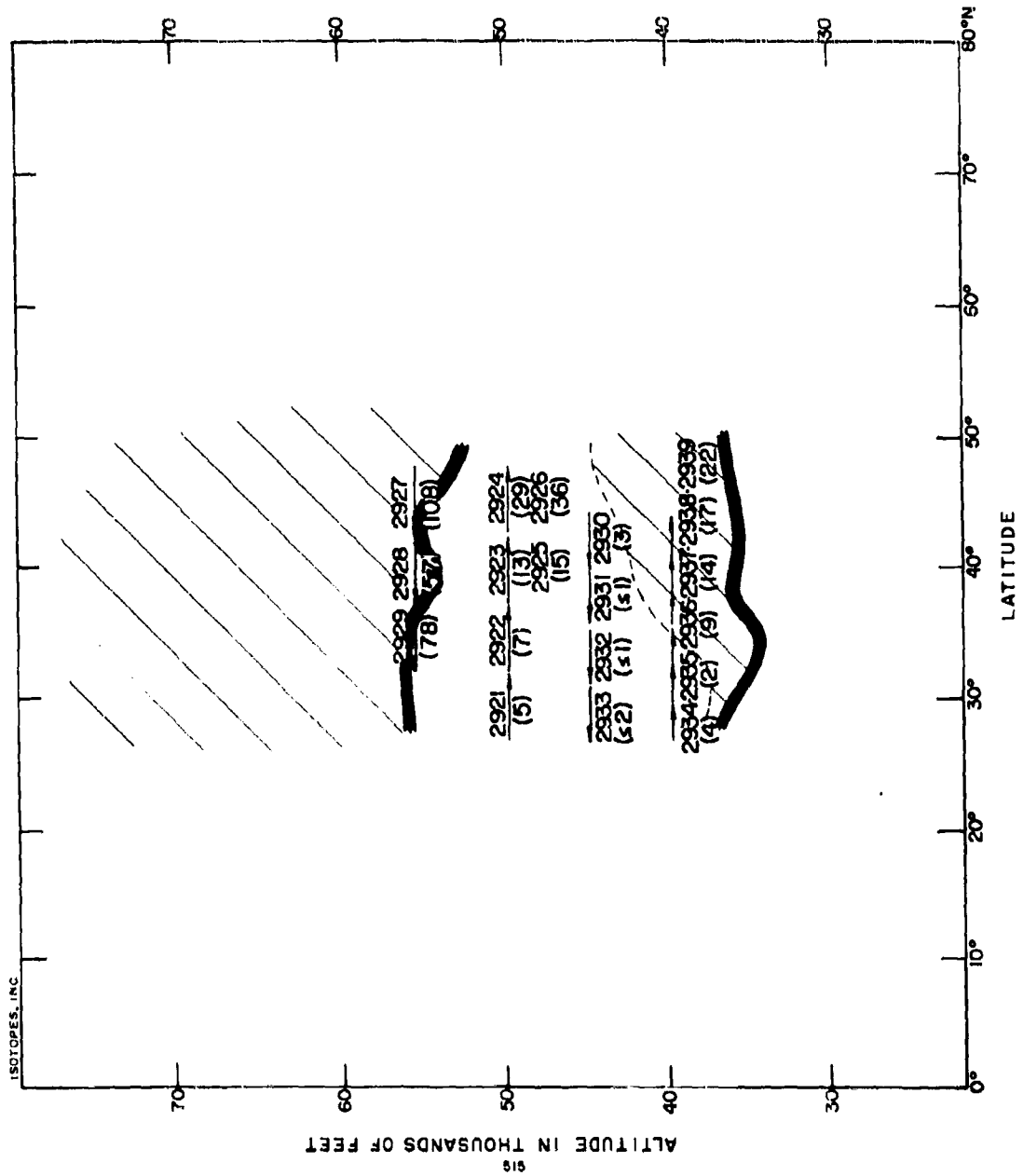


FIGURE 4.208 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
<u>22 December 1959 Mission 28A</u>								
718	2941	26°N	65.1	8,700	161 $\pm$ 4	2650 $\pm$ 140	---	---
LS	2942	22°N	66.3	8,300	153 $\pm$ 4	2650 $\pm$ 140	---	7.6
	2943	18°N	67.2	8,300	143 $\pm$ 5	2650 $\pm$ 140	---	---
	2945	18°N	67.2	9,200	160 $\pm$ 1	---	---	---
	2944	14°N	67.6	10,300	156 $\pm$ 1	2650 $\pm$ 140	---	7.5
	2946	14°N	67.6	11,200	146 $\pm$ 1	---	---	7.5
	2947	14°N	68.2	9,400	169 $\pm$ 5	2550 $\pm$ 180	---	7.1
	2948	19°N	68.8	11,300	170 $\pm$ 3	2550 $\pm$ 180	---	---
	2949	22°N	69.1	12,100	194 $\pm$ 1	2550 $\pm$ 180	---	---
	2950	26°N	69.9	11,800	199 $\pm$ 1	2550 $\pm$ 180	---	8.4

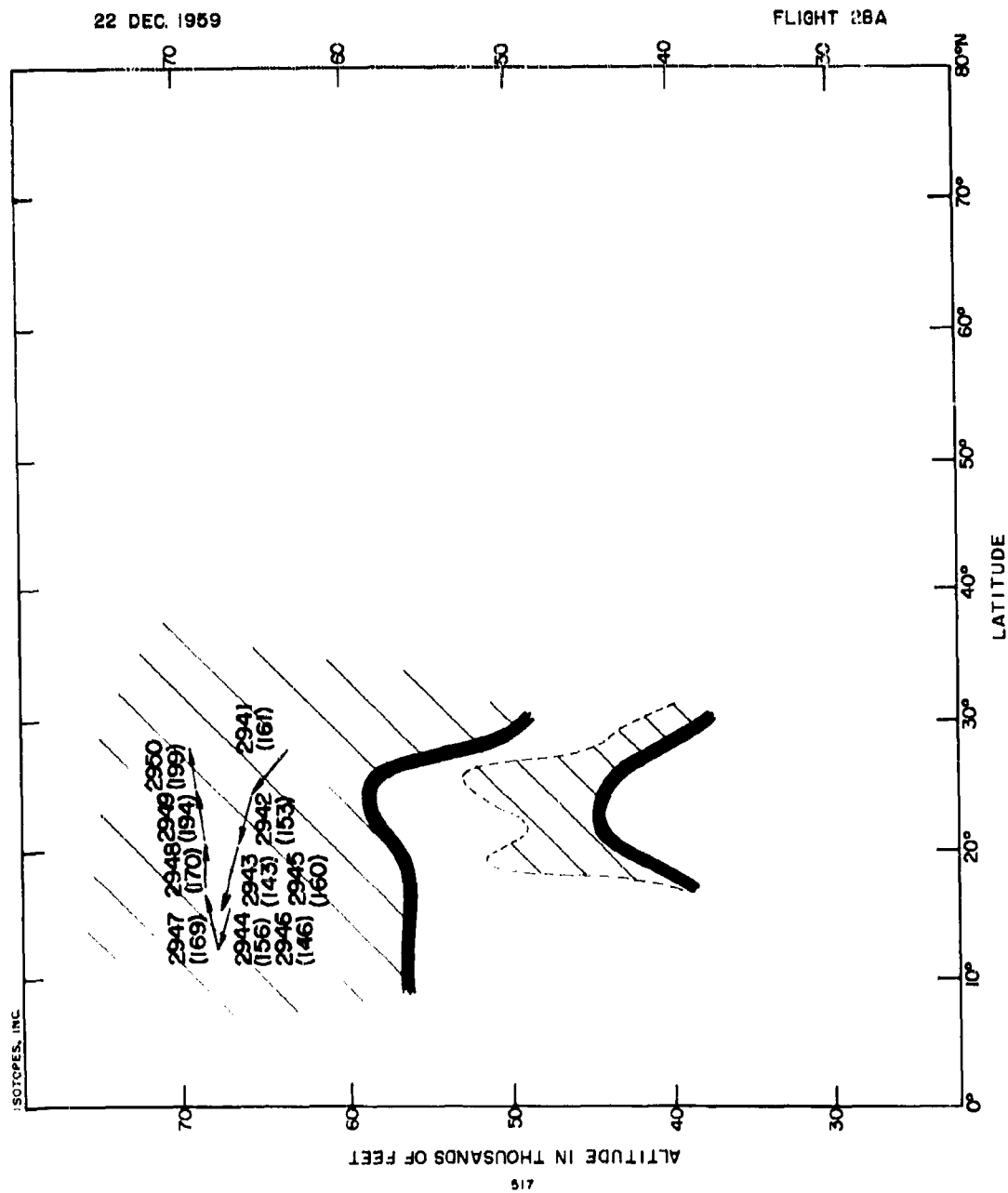


FIGURE 4.209 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
<u>23 December 1959 Mission 28B</u>								
705	2951	30°N	64.4	10,600	169 ± 4	1872 ± 118	---	8.3
LN	2952	36°N	64.7	10,800	193 ± 3	1872 ± 118	---	---
	2953	42°N	65	11,600	184 ± 1	1872 ± 118	---	---
	2955	42°N	65	12,700	184 ± 1	---	---	---
	2954	47°N	65	13,900	226 ± 4	1872 ± 118	---	7.9
	2956	47°N	65.3	15,000	246 ± 4	1352 ± 89	---	8.0
	2957	42°N	66.5	13,900	235 ± 2	1352 ± 89	---	---
	2958	36°N	68.3	15,700	210 ± 1	1352 ± 89	---	---
	2959	30°N	68.9	14,500	228 ± 5	1352 ± 89	---	8.7

23 DEC. 1959

FLIGHT 288

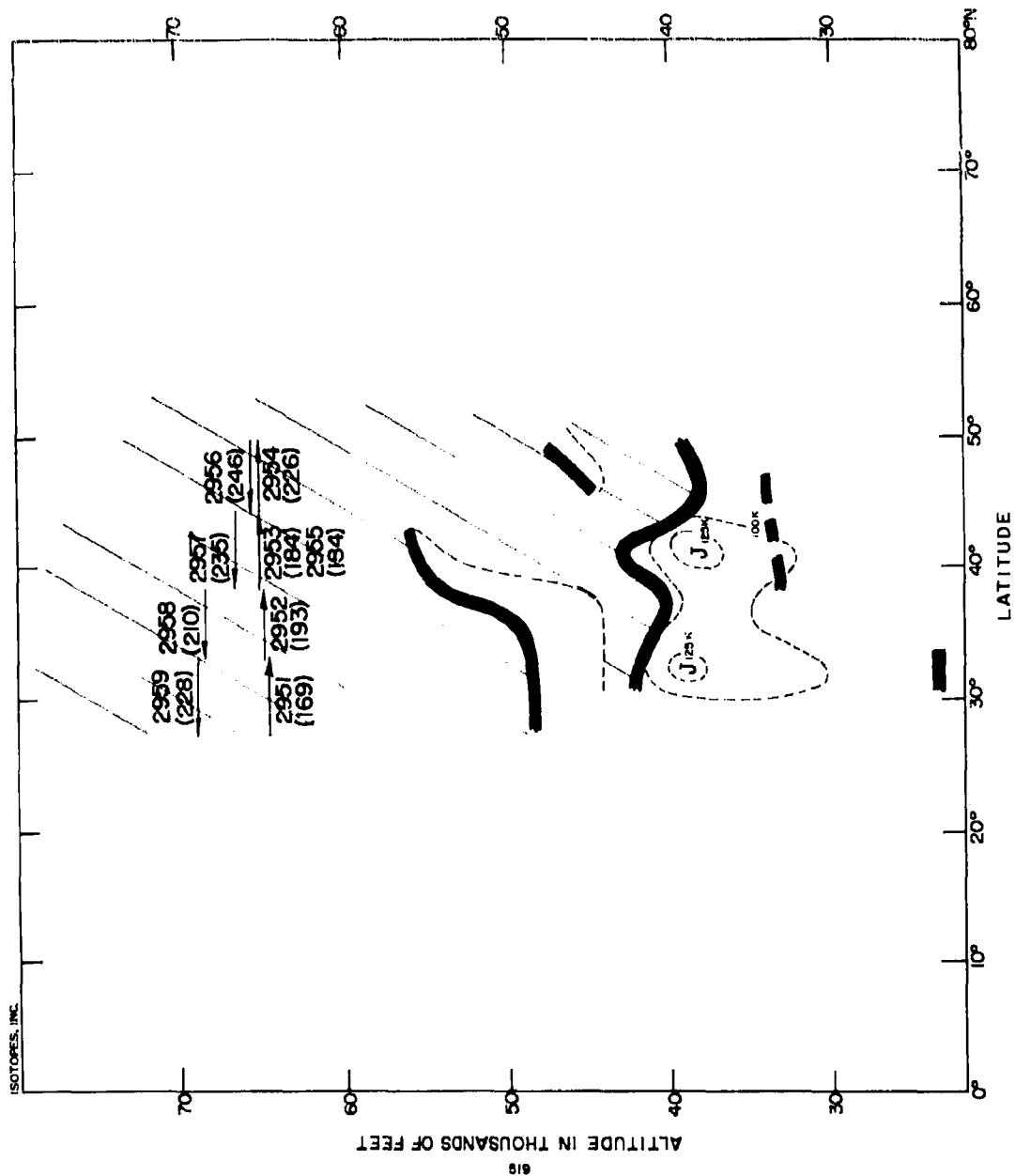


FIGURE 4.210 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr90	W185 (Aug 58)		
5 January 1960 Mission 29								
718	2960	30°N	60	3,800	73 ± 2	2900 ± 100	---	7.5
LN	2961	36°N	60	6,100	98 ± 1	2900 ± 100	---	---
	2962	42°N	60	8,100	125 ± 5	2900 ± 100	---	8.6
	2964	42°N	60	7,600	156 ± 1	---	---	6.9
	2963	46°N	60	9,500	158 ± 2	2900 ± 100	---	---
	2965	46°N	60	9,900	180 ± 3	---	---	---
	2966	46°N	65.2	13,300	208 ± 6	1972 ± 91	---	---
	2967	42°N	65.3	13,600	218 ± 1	1972 ± 91	---	8.8
	2968	36°N	65.5	11,400	178 ± 1	1972 ± 91	---	---
	2969	30°N	65.5	8,100	176 ± 1	1972 ± 91	---	6.7
714	2970	26°N	60	1,820	26 ± 1	1624 ± 71	---	---
LS	2971	22°N	60	1,630	28 ± 1	1624 ± 71	---	---
	2972	19°N	60	2,900	68 ± 1	1624 ± 71	---	---
	2974	19°N	60	4,000	64 ± 1	---	---	7.6
	2973	15°N	60	3,500	64 ± 3	1624 ± 71	---	---
	2975	15°N	65	13,800	216 ± 2	---	---	7.9

5 JAN. 1960

FLIGHT 29

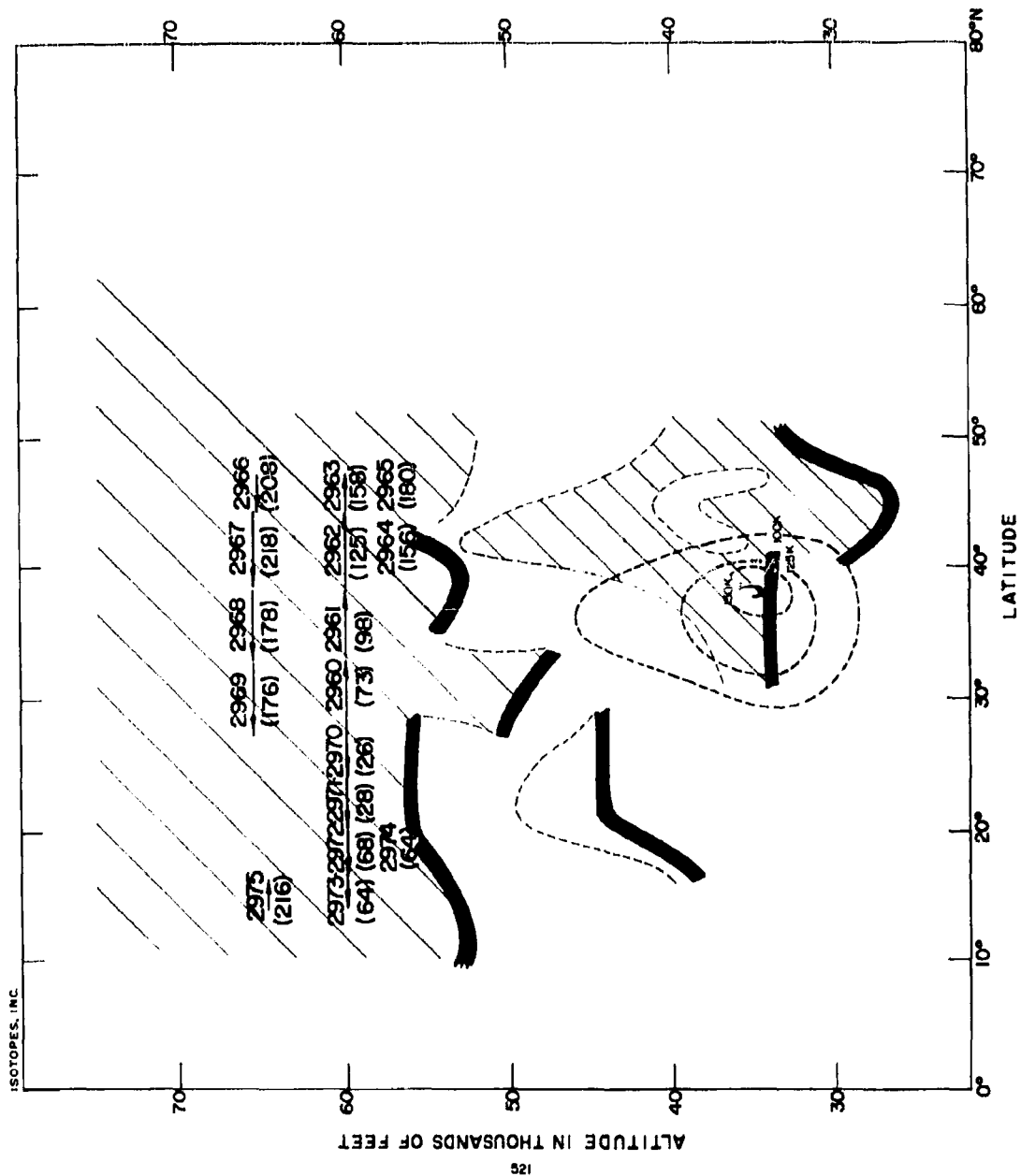


FIGURE 4.211 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
7 January 1960 Mission 30								
716 MN	2988	52°N	40	2,400	49 ± 1	944 ± 66	---	---
	2989	54°N	40	2,700	46 ± 1	---	---	---
	2990	57°N	40	4,500	77 ± 2	1770 ± 80	---	---
	2991	60°N	40	4,400	79 ± 2	1534 ± 69	---	---
	2992	62°N	40	4,200	77 ± 2	1770 ± 70	---	---
	2993	65°N	40	4,000	84 ± 1	1652 ± 78	---	---
	2984	64°N	50	6,200	125 ± 2	1298 ± 70	---	---
	2985	60°N	50	4,700	79 ± 1	1652 ± 89	0.7	---
	2986	56°N	50	5,900	107 ± 1	1298 ± 69	---	---
2987	52°N	50	4,000	68 ± 1	1888 ± 194	---	---	
714 LN	2997	29°N	40	< 230	3 ± 1	< 118	---	---
	2998	32°N	40	1,450	29 ± 1	826 ± 86	---	---
	2999	35°N	40	1,380	21 ± 1	590 ± 120	---	---
	3000	37°N	40	1,410	30 ± 1	708 ± 81	---	---
	3001	40°N	40	2,300	38 ± 2	1062 ± 86	---	---
	3002	43°N	40	2,300	49 ± 2	1298 ± 105	---	---
	2994	42°N	45.5	3,300	66 ± 1	1298 ± 71	0.3	---
	2995	38°N	45.5	2,900	58 ± 1	1062 ± 79	---	---
	2996	34°N	45	1,480	29 ± 1	590 ± 60	---	---
705 LN	3003	30°N	50	< 640	9 ± 1	< 354	---	---
	3004	35°N	50	3,300	69 ± 1	1062 ± 75	---	---
	3005	41°N	50	3,100	67 ± 1	1416 ± 76	0.1	---
	3007	41°N	50	4,200	83 ± 2	1770 ± 80	---	---
	3006	46°N	50	3,500	64 ± 2	1652 ± 94	---	---
	3008	46°N	50	4,700	---	1534 ± 75	---	---
	3009	46°N	55.5	6,400	125 ± 5	2010 ± 90	---	---
	3010	41°N	55	3,600	78 ± 1	2480 ± 80	0.1	---
	3011	35°N	55.5	2,500	49 ± 2	1534 ± 71	---	---
	3012	30°N	55.5	1,930	37 ± 1	1180 ± 60	---	---

7 JAN. 1960

FLIGHT 30

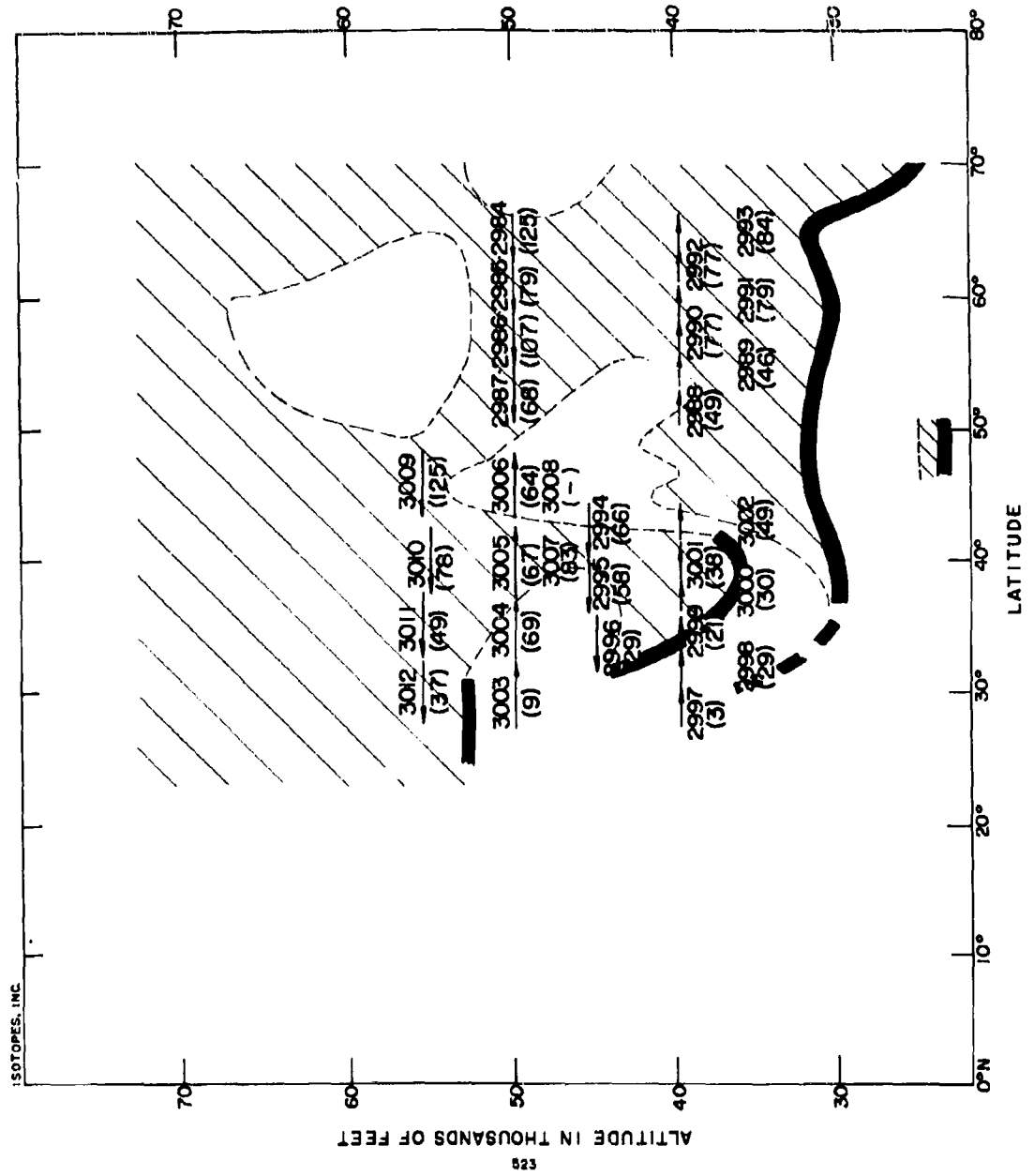


FIGURE 4.212 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC NO.	HASP No.	Latitude	Altitude	Total Beta	dpm/1000 SCF		Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁸⁹
					Sr ⁹⁰	W185 (Aug 58)		
12 January 1960		Mission 31		•				
717 MN	3039	52°N	55.5	4,700	133 ± 1	1364 ± 75	---	---
	3040	56°N	55	5,400	134 ± 1	1364 ± 87	---	---
	3041	60°N	55	8,800	157 ± 3	1612 ± 137	---	---
	3042	64°N	55	7,800	155 ± 4	1240 ± 100	0.1	7.6
	3043	68°N	60.3	11,300	189 ± 1	< 1116	---	---
716 MN	3044	63°N	61	11,100	203 ± 1	868 ± 89	---	---
	3045	52°N	63.8	10,900	162 ± 1	1116 ± 175	---	---
	3046	56°N	65.5	15,900	215 ± 3	< 496	---	---
	3047	59°N	66.2	15,100	195 ± 4	< 496	---	---
	3049	59°N	66.2	15,900	191 ± 2	< 868	---	---
	3048	62°N	66.3	17,300	217 ± 1	< 496	---	---
	3051	62°N	66.3	24,000	231 ± 2	< 744	0.2	---
	3052	67°N	66	15,900	218 ± 1	744 ± 165	---	---
	3053	63°N	68.1	22,000	219 ± 3	< 496	---	---
705 RO	3017	17°N	55	< 690	7 ± 1	248 ± 29	---	---
	3018	17°N	60	2,500	37 ± 1	1240 ± 70	---	---
	3014	17°N	65	5,700	113 ± 2	2480 ± 100	0.3	---
	3015	17°N	68	7,800	150 ± 2	1488 ± 156	0.5	---
	3016	17°N	70.1	11,100	189 ± 1	1240 ± 120	0.3	---
718 RS	3019	12°N	60	1,550	31 ± 1	992 ± 75	---	---
	3020	6°N	60	1,670	23 ± 2	992 ± 85	---	---
	3021	1°N	60	1,480	27 ± 1	1364 ± 190	---	---
	3023	1°N	60	< 1,520	26 ± 1	1116 ± 65	---	---
	3022	5°S	60	1,460	23 ± 2	1240 ± 70	---	---
	3024	5°S	60	< 1,270	22 ± 1	1116 ± 74	---	---
	3025	5°S	65	3,900	74 ± 5	3600 ± 200	---	---
	3026	1°N	65	5,100	98 ± 2	---	---	---
	3027	6°N	65	3,400	61 ± 1	2600 ± 100	---	---
	3028	12°N	65	6,500	127 ± 2	2980 ± 150	---	---
714 RS	3033	12°N	67	6,300	132 ± 1	3470 ± 160	---	---
	3034	6°N	67.6	6,900	129 ± 2	4590 ± 200	---	---
	3029	1°N	67.8	5,700	133 ± 1	4710 ± 180	---	---
	3035	1°N	67.8	6,700	142 ± 3	3970 ± 180	1.3	---
	3030	5°S	68.6	5,200	122 ± 4	3350 ± 210	---	---
	3036	5°S	68.6	4,800	104 ± 1	4090 ± 160	0.7	---
	3031	5°S	69.2	6,700	117 ± 2	4090 ± 200	---	---
	3037	5°S	69.2	6,200	129 ± 5	4340 ± 180	0.2	---
	3032	1°N	70	7,800	181 ± 1	4340 ± 220	---	---
	3038	1°N	70	8,300	165 ± 1	4460 ± 190	---	---

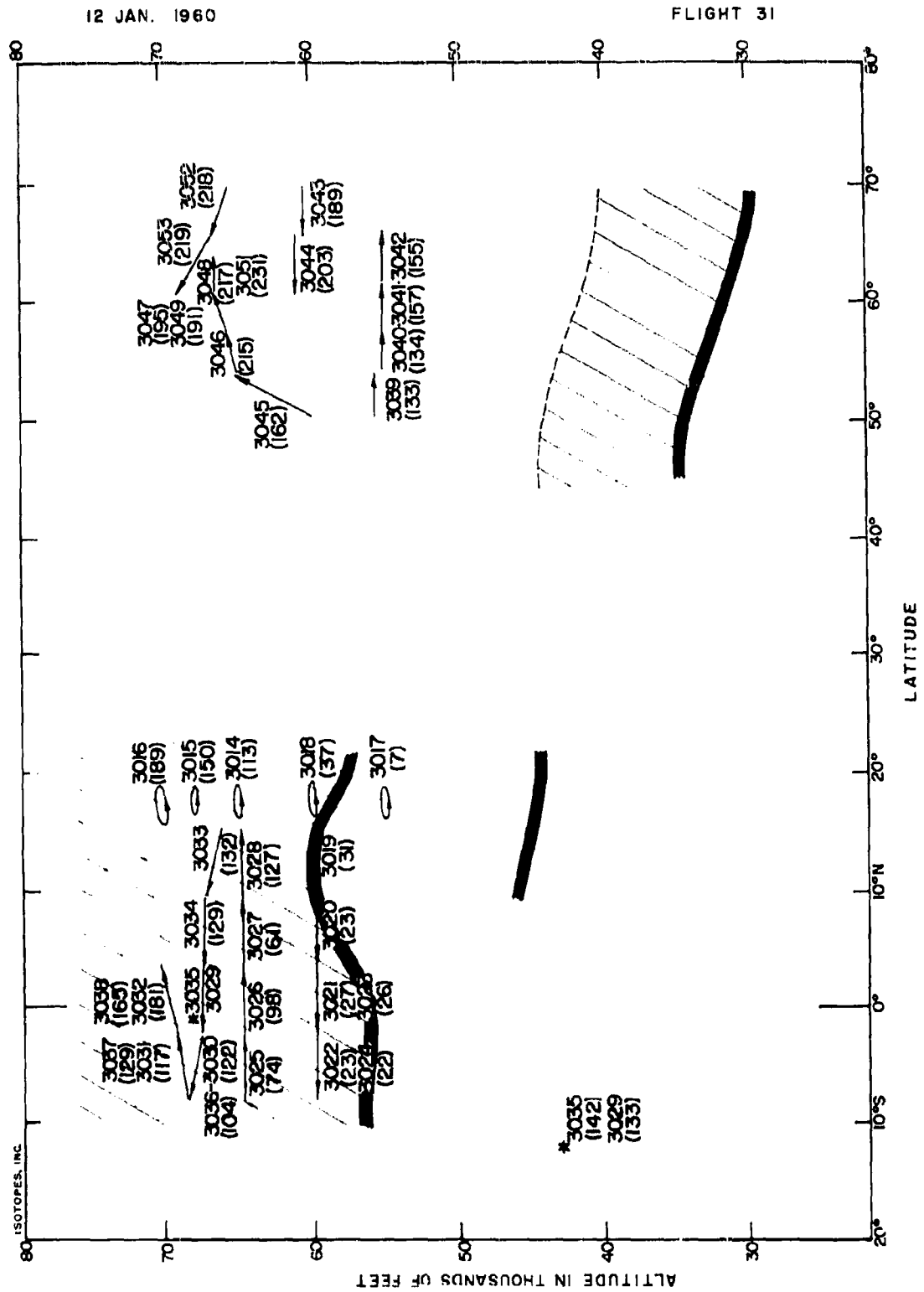


FIGURE 4.213 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$	
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)				
<u>14 January 1960 Mission 32A</u>										
705	3055	12°N	60	< 1,290	18 ± 1	---	---	---		
RS	3056	6°N	60	1,700	32 ± 1	---	---	---		
	3057	1°N	60	2,000	39 ± 1	---	---	---		
	3059	1°N	60	2,300	37 ± 1	---	---	---		
	3058	5°S	60	1,170	17 ± 1	---	---	---		
	3061	5°S	65	4,600	54 ± 1	---	---	6.6		
718	3062	12°N	65.4	6,500	136 ± 1	4060 ± 150	---	6.2		
RS	3063	6°N	65.6	6,900	112 ± 3	4060 ± 150	---	---		
	3064	1°N	65.9	7,400	126 ± 1	4060 ± 150	---	---		
	3065	5°S	66.8	6,900	138 ± 3	4060 ± 150	---	5.3		
	3067	5°S	66.8	6,800	114 ± 3	---	---	---		
	3068	5°S	67.9	6,000	128 ± 3	4570 ± 120	---	---		
	3069	1°N	68.6	7,700	158 ± 1	4570 ± 120	---	8.1		
	3070	6°N	69.4	10,300	206 ± 2	4570 ± 120	---	---		
	3071	12°N	70.1	9,200	194 ± 3	4570 ± 120	---	7.2		

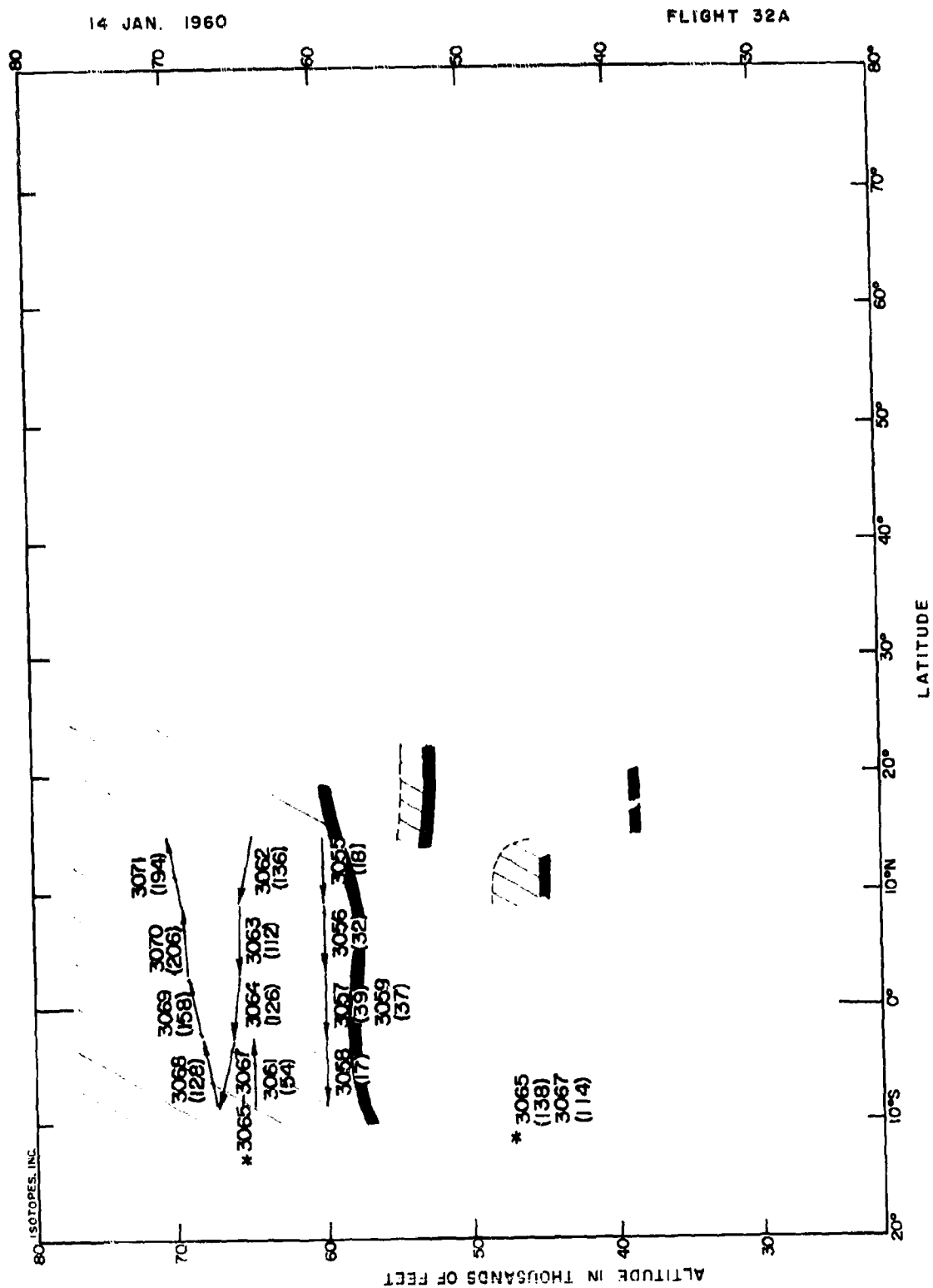


FIGURE 4.214 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>15 January 1960 Mission 32B</u>								
717	3072	48°N	30	< 420	4 ± 1	< 256	---	---
MO	3076	48°N	30	< 310	4 ± 1	< 256	---	---
	3073	48°N	40	1,610	32 ± 1	768 ± 39	---	---
	3077	48°N	40	1,880	30 ± 1	768 ± 38	0.2	---
	3074	48°N	50	4,300	78 ± 1	1152 ± 61	---	---
	3078	48°N	50	3,400	66 ± 1	1536 ± 45	---	---
	3075	48°N	57	6,500	129 ± 1	1408 ± 61	---	---
	3079	48°N	57	5,200	126 ± 3	2180 ± 90	---	---
	3080	48°N	64	11,100	182 ± 6	896 ± 82	---	---
	3081	48°N	67.8	27,000	212 ± 10	≤ 1536	---	---
715	3082	48°N	45	2,700	36 ± 1	1280 ± 110	0.3	---
MO	3086	48°N	45	3,200	52 ± 2	1024 ± 61	0.1	---
	3083	48°N	50	3,000	52 ± 1	1024 ± 159	0.3	---
	3087	48°N	50	3,800	73 ± 1	1408 ± 72	---	---
	3084	48°N	55	3,600	67 ± 1	1280 ± 70	---	---
	3088	48°N	55	5,600	81 ± 1	1664 ± 72	---	---
	3085	48°N	60	4,800	104 ± 3	1408 ± 84	---	---
	3089	48°N	60	6,600	101 ± 1	1792 ± 86	---	---
	3090	48°N	64	12,900	190 ± 7	1152 ± 68	---	---
	3091	48°N	67	21,000	193 ± 6	< 1024	---	15

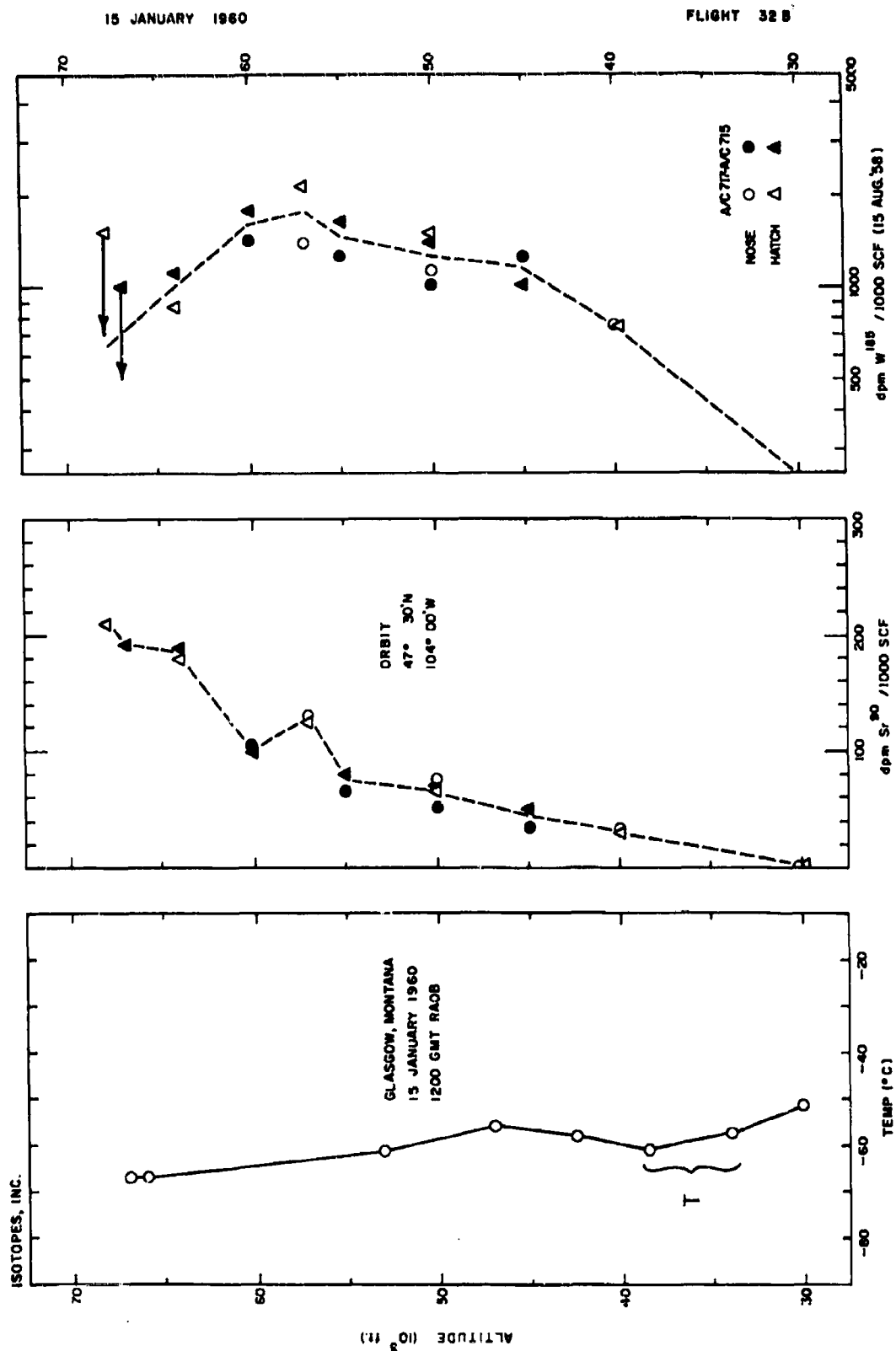


FIGURE 4.215 FLIGHT PROFILE

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
19 January 1960 Mission 33								
717	3096	52°N	40	3,200	60 ± 2	1188 ± 53	---	6.5
MN	3097	55°N	40	1,930	41 ± 1	1188 ± 53	---	---
	3098	57°N	40	2,100	48 ± 1	1188 ± 53	---	---
	3099	60°N	40	2,400	54 ± 1	1056 ± 54	---	7.2
	3100	63°N	40	2,000	41 ± 1	1056 ± 54	---	---
	3101	66°N	40	1,630	33 ± 2	1056 ± 54	---	7.4
	3092	65°N	50	6,400	126 ± 1	12540 ± 100	---	7.6
	3093	61°N	50	6,500	108 ± 2	12540 ± 100	---	---
	3094	57°N	50	6,600	131 ± 1	12540 ± 100	---	6.9
	3095	53°N	50	4,400	80 ± 1	12540 ± 100	---	---
715	3106	49°N	40	4,700	77 ± 1	1980 ± 70	---	---
MS	3107	46°N	40	3,600	80 ± 1	1980 ± 70	---	7.1
	3108	43°N	40	2,800	45 ± 1	1980 ± 70	---	---
	3109	40°N	40	3,100	45 ± 1	1980 ± 70	---	7.2
	3110	37°N	40	< 930	12 ± 1	---	---	---
	3111	34°N	40	< 410	5 ± 1	---	---	---
	3102	35°N	45	1,190	20 ± 1	---	---	---
	3103	39°N	45	2,300	54 ± 1	792 ± 48	---	6.4
	3104	44°N	45	2,900	56 ± 1	792 ± 48	---	---
	3105	48°N	45	2,600	42 ± 1	792 ± 48	---	6.8
	714	3112	30°N	50	1,260	22 ± 1	---	---
LN	3113	35°N	50	2,800	54 ± 1	1452 ± 74	---	7.0
	3114	40°N	50	3,100	58 ± 2	1452 ± 74	---	---
	3116	40°N	50	2,900	66 ± 1	---	---	---
	3115	46°N	50	5,400	92 ± 1	1452 ± 74	---	7.3
	3117	46°N	50	5,400	112 ± 1	---	---	5.8
	3118	46°N	55	7,800	173 ± 1	2110 ± 80	---	6.6
	3119	40°N	55	6,200	117 ± 1	2110 ± 80	---	---
	3120	35°N	55	3,600	65 ± 2	2110 ± 80	---	7.2
	3121	30°N	55	1,710	27 ± 1	---	---	---

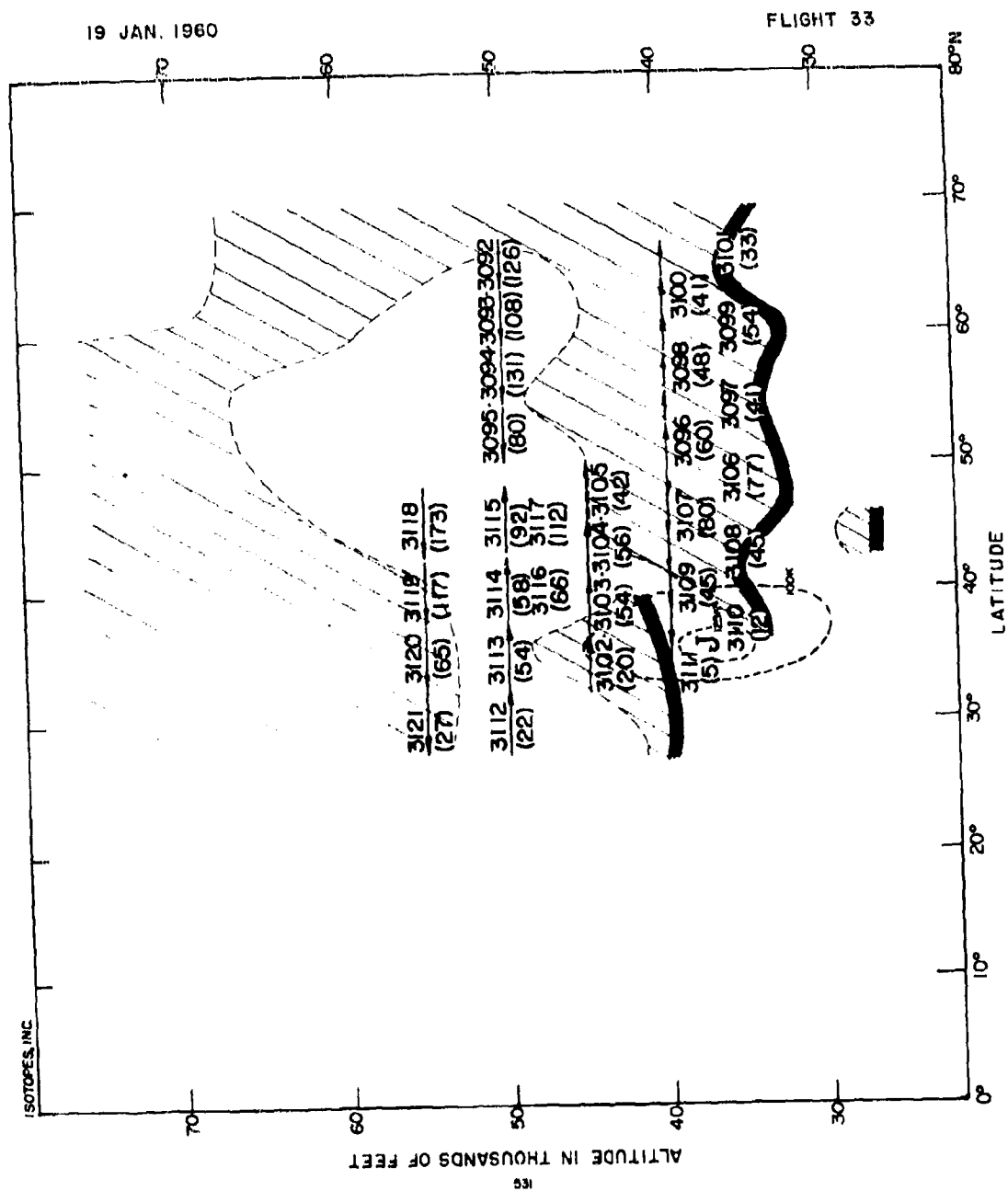


FIGURE 4.216 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/ 1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>21 January 1960 Mission 34A</u>								
714	3146	30°N	65.4	10,000	171 + 1	1890 + 130	---	---
LN	3143	36°N	65.4	12,100	207 + 4	< 1350	---	6.4
	3144	41°N	66.5	22,000	245 + 1	< 675	---	---
	3145	46°N	67.4	26,000	258 + 6	< 270	---	13
	3147	46°N	67.4	28,000	277 + 7	< 270	---	---
	3148	46°N	68.1	29,000	281 + 2	< 540	---	14
	3149	41°N	68.9	29,000	278 + 54	< 270	---	14
	3150	36°N	69.2	14,900	294 + 14	1755 + 195	---	---
	3142	30°N	69.7	13,900	215 + 2	1755 + 177	---	6.8
	3151	30°N	69.7	11,600	218 + 4	< 1755	---	7.6
705	3152	27°N	64.6	8,900	157 + 2	2300 + 200	---	7.3
LS	3153	23°N	65.8	6,800	131 + 2	1485 + 61	---	---
	3154	18°N	66.5	6,300	109 + 2	1485 + 61	---	7.0
	3155	14°N	66.9	7,000	127 + 2	1485 + 61	---	6.4

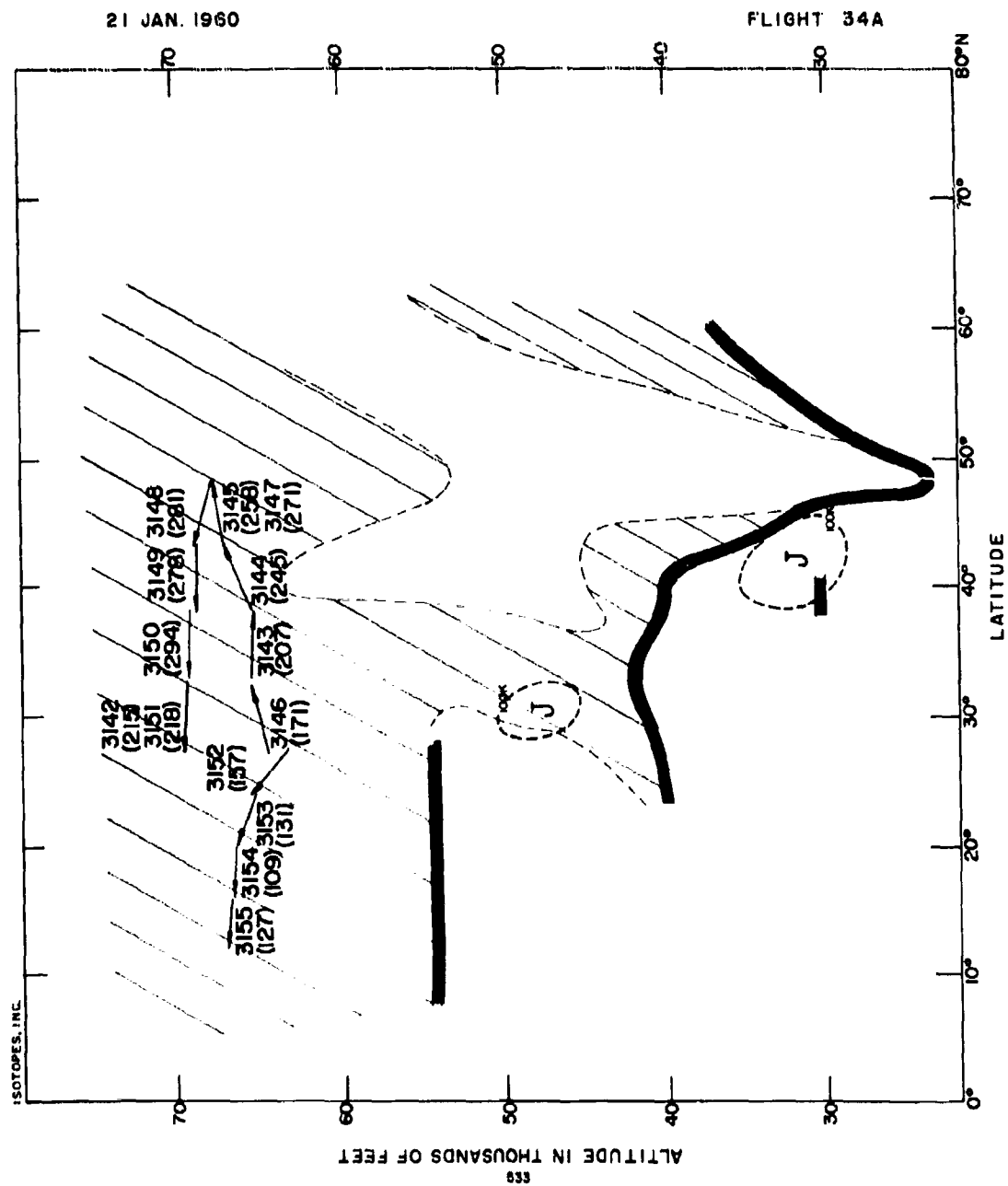


FIGURE 4.217 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	V ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
22 January 1960 Mission 34B								
715	3122	53°N	55	6,800	143 ± 2	1507 ± 110	---	---
MN	3123	56°N	55	5,900	133 ± 1	1507 ± 110	---	6.6
	3124	60°N	55	6,900	140 ± 3	1507 ± 110	---	---
	3126	60°N	55	8,800	154 ± 1	---	---	---
	3125	63°N	55	4,500	100 ± 3	1507 ± 110	---	6.3
	3127	63°N	55	6,700	134 ± 4	---	---	6.5
	3128	68°N	60	13,900	245 ± 1	2060 ± 90	---	7.4
	3129	63°N	60	10,200	167 ± 1	2060 ± 90	---	---
	3130	58°N	60	13,800	260 ± 11	2060 ± 90	---	7.5
717	3132	52°N	63.9	14,300	188 ± 1	959 ± 108	---	9.7
MN	3133	56°N	65	13,900	232 ± 7	959 ± 108	---	---
	3134	60°N	65	15,300	245 ± 2	959 ± 108	---	9.3
	3136	60°N	65	15,500	273 ± 6	---	---	8.3
	3135	63°N	65.2	15,500	228 ± 1	959 ± 108	---	---
	3137	63°N	65.2	17,300	237 ± 2	---	---	---
	3138	68°N	65.6	14,900	254 ± 2	822 ± 137	---	8.5
	3139	63°N	67.5	19,200	297 ± 3	822 ± 137	---	---
	3141	57°N	68.7	17,600	269 ± 3	822 ± 137	---	11

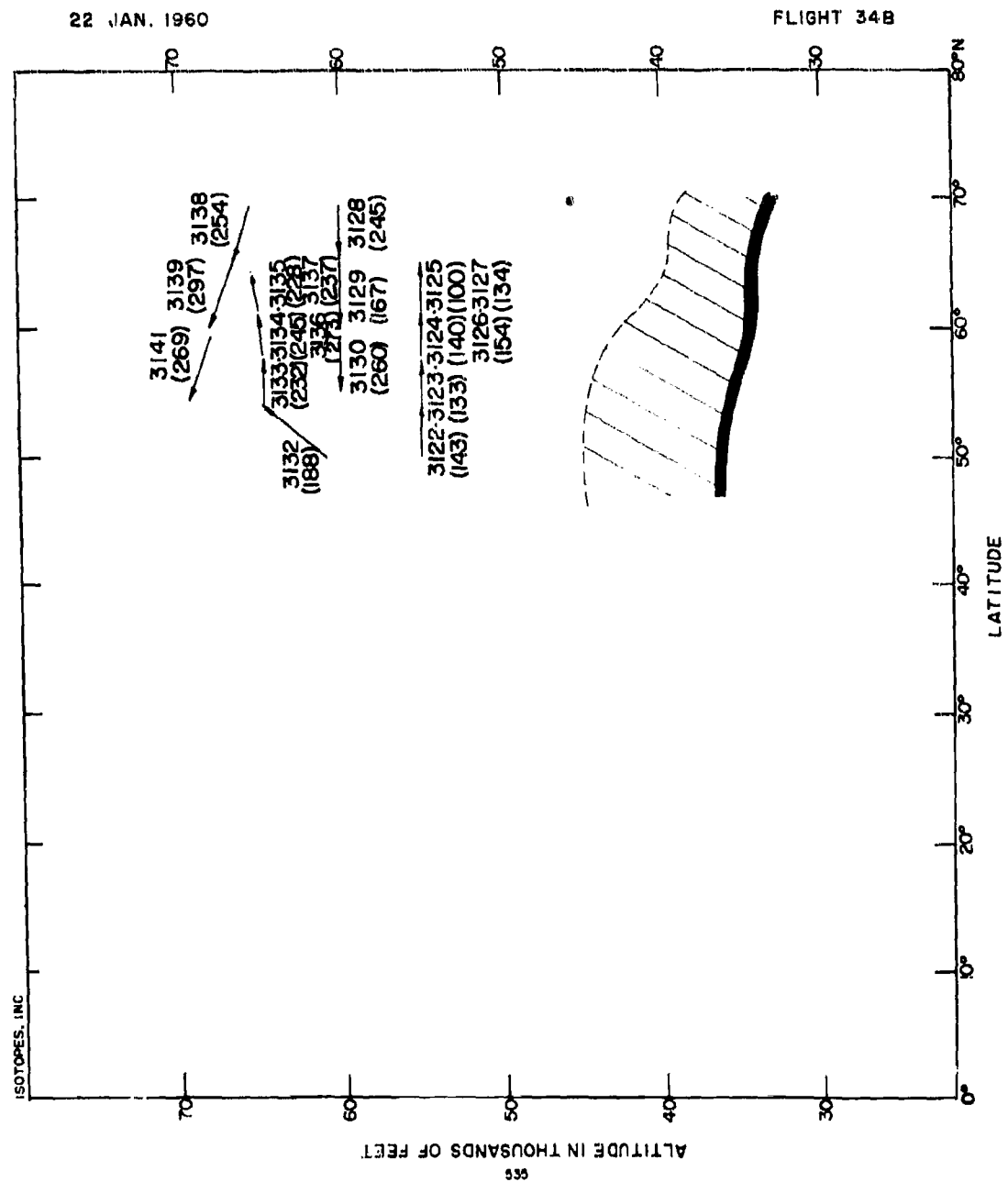


FIGURE 4.218 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>26 January 1960 Mission 35</u>								
718	3156	30°N	60	3,400	76 $\pm$ 1	284 $\pm$ 39	---	---
LN	3157	36°N	60	5,000	99 $\pm$ 4	284 $\pm$ 39	---	7.5
	3158	42°N	60	10,600	181 $\pm$ 4	284 $\pm$ 39	---	---
	3160	42°N	60	12,000	208 $\pm$ 1	---	---	---
	3159	47°N	60	11,000	170 $\pm$ 3	284 $\pm$ 39	---	7.9
	3161	47°N	60	11,700	198 $\pm$ 4	---	---	7.7
	3162	47°N	65	14,900	270 $\pm$ 1	568 $\pm$ 86	---	8.0
	3163	42°N	65	18,700	269 $\pm$ 2	568 $\pm$ 86	---	---
	3164	36°N	65	13,900	219 $\pm$ 5	568 $\pm$ 86	---	8.1
	3165	30°N	65	9,400	168 $\pm$ 1	568 $\pm$ 86	---	---
714	3166	26°N	60	3,700	62 $\pm$ 1	710 $\pm$ 80	---	---
LS	3167	22°N	60	1,760	30 $\pm$ 1	710 $\pm$ 80	---	---
	3168	18°N	60	2,700	45 $\pm$ 1	710 $\pm$ 80	---	---
	3170	18°N	60	2,500	55 $\pm$ 1	---	---	---
	3169	14°N	60	2,000	47 $\pm$ 1	---	---	---
	3171	14°N	60	1,960	48 $\pm$ 1	---	---	---
	3172	16°N	65	7,200	148 $\pm$ 5	---	---	6.9

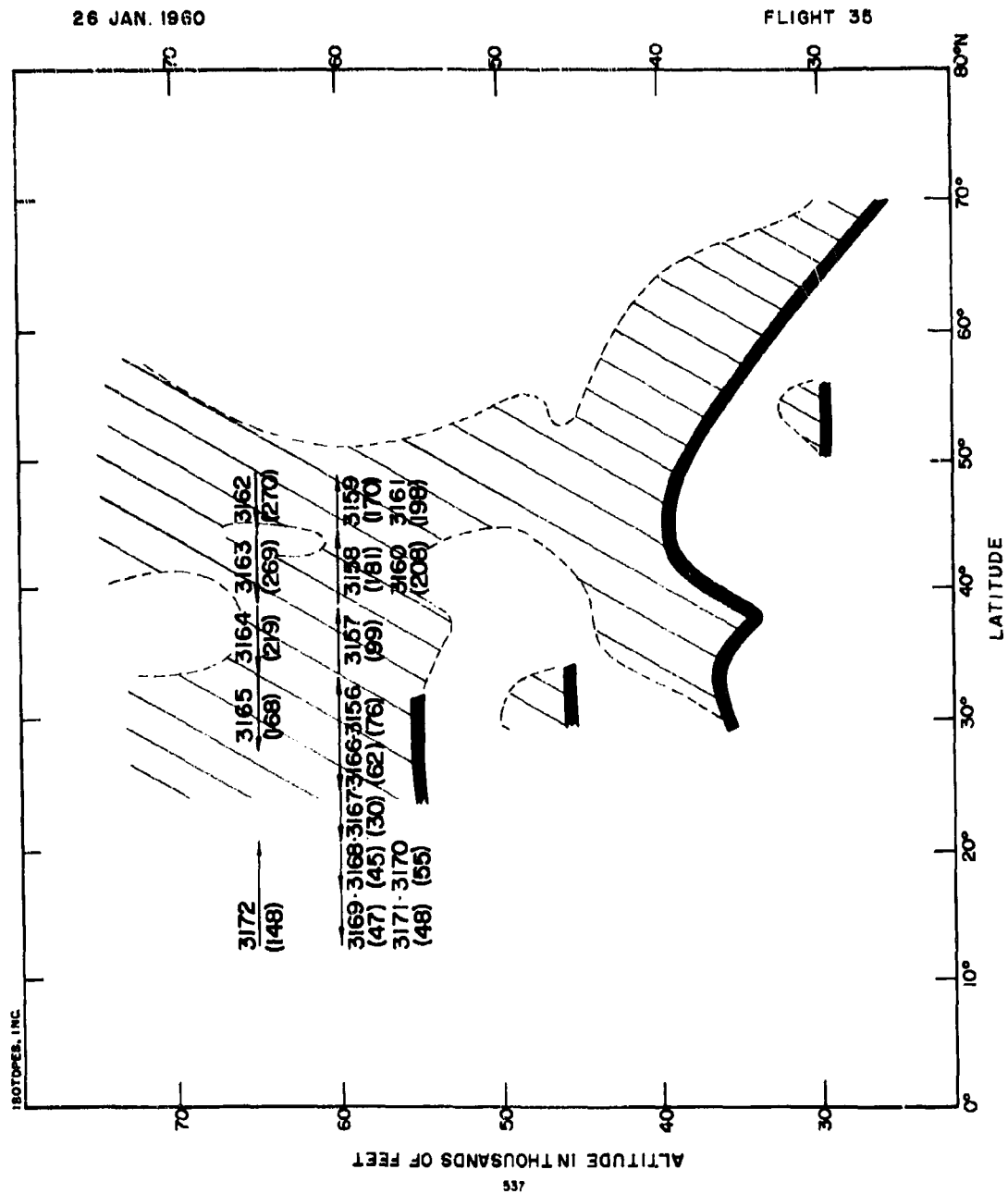


FIGURE 4.219 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>28 January 1960 Mission 36A</u>								
717	3176	53°N	60	14,500	190 ± 2	288 ± 55	---	13
MN	3177	58°N	60	13,700	189 ± 2	288 ± 55	---	---
	3178	63°N	60	15,200	199 ± 2	288 ± 55	---	12
	3179	68°N	60	10,800	167 ± 6	288 ± 55	---	9.1

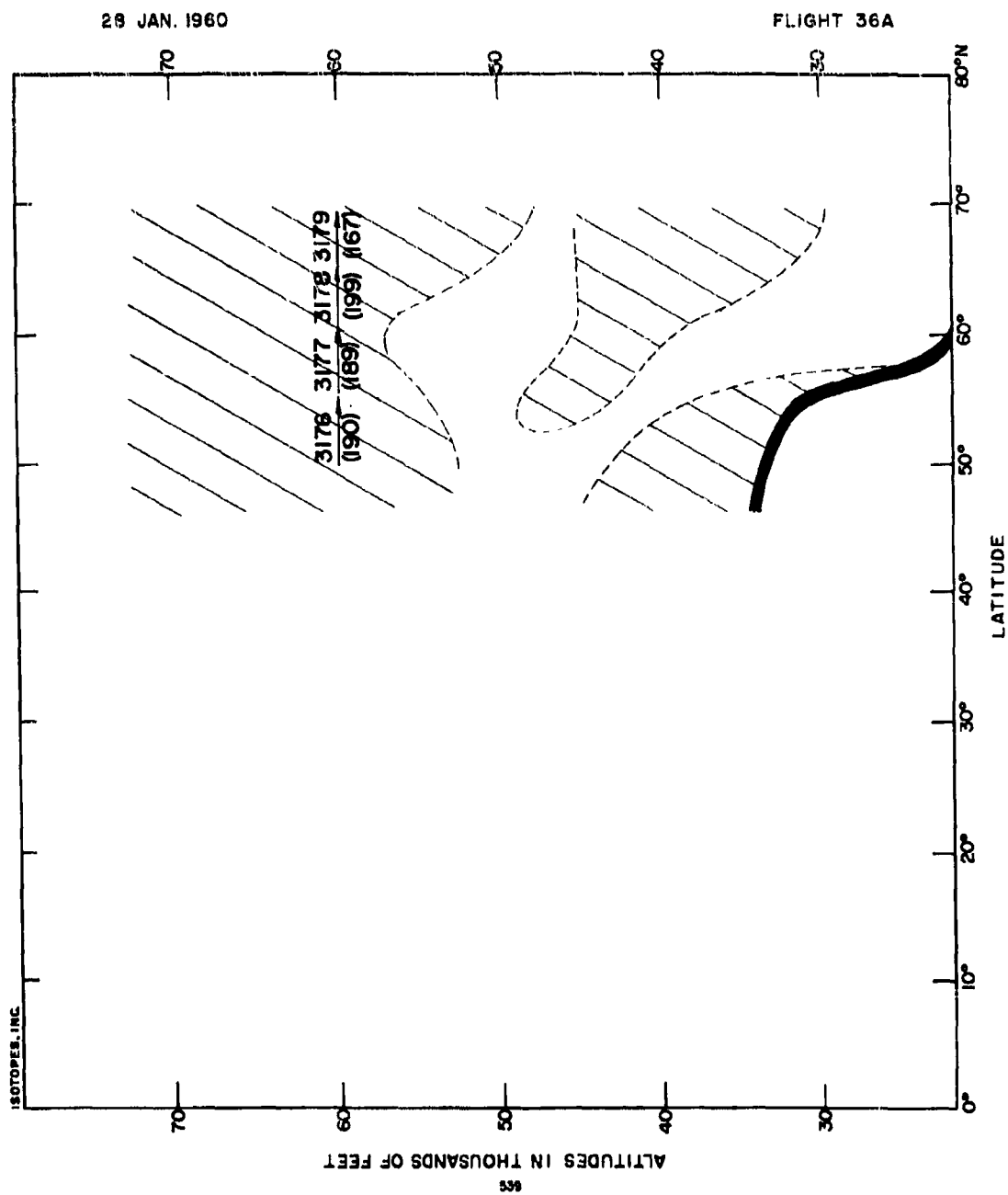


FIGURE 4.220 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
29 January 1960 Mission 36B								
718	3184	29°N	40	< 410	3 ± 1	---	---	---
LN	3185	32°N	40	< 1,080	22 ± 1	---	---	---
	3186	35°N	40	1,470	29 ± 1	---	---	---
	3187	37°N	40	1,610	36 ± 1	---	---	6.7
	3188	40°N	40	1,130	22 ± 1	---	---	---
	3189	43°N	40	< 220	3 ± 1	---	---	---
	3180	42°N	45	2,800	54 ± 1	1015 ± 91	---	6.4
	3181	38°N	45	2,200	41 ± 1	1015 ± 91	---	---
	3182	34°N	45	1,560	27 ± 1	1015 ± 91	---	7.7
	3183	30°N	45	< 630	12 ± 1	---	---	---
714	3190	30°N	49.5	< 880	15 ± 1	---	---	---
LN	3194	30°N	49.5	< 710	15 ± 1	---	---	---
	3191	35°N	49.5	1,230	28 ± 1	---	---	6.9
	3192	40°N	50	1,420	28 ± 1	---	---	---
	3193	44°N	50	2,000	46 ± 1	---	---	6.4
	3195	44°N	50	2,200	53 ± 1	---	---	7.0
	3196	45°N	55	5,200	107 ± 1	1595 ± 102	---	6.4
	3197	39°N	55	5,300	105 ± 2	1595 ± 102	---	---
	3198	34°N	55	3,500	77 ± 1	1595 ± 102	---	5.9
	3199	30°N	55	4,400	43 ± 1	---	---	---

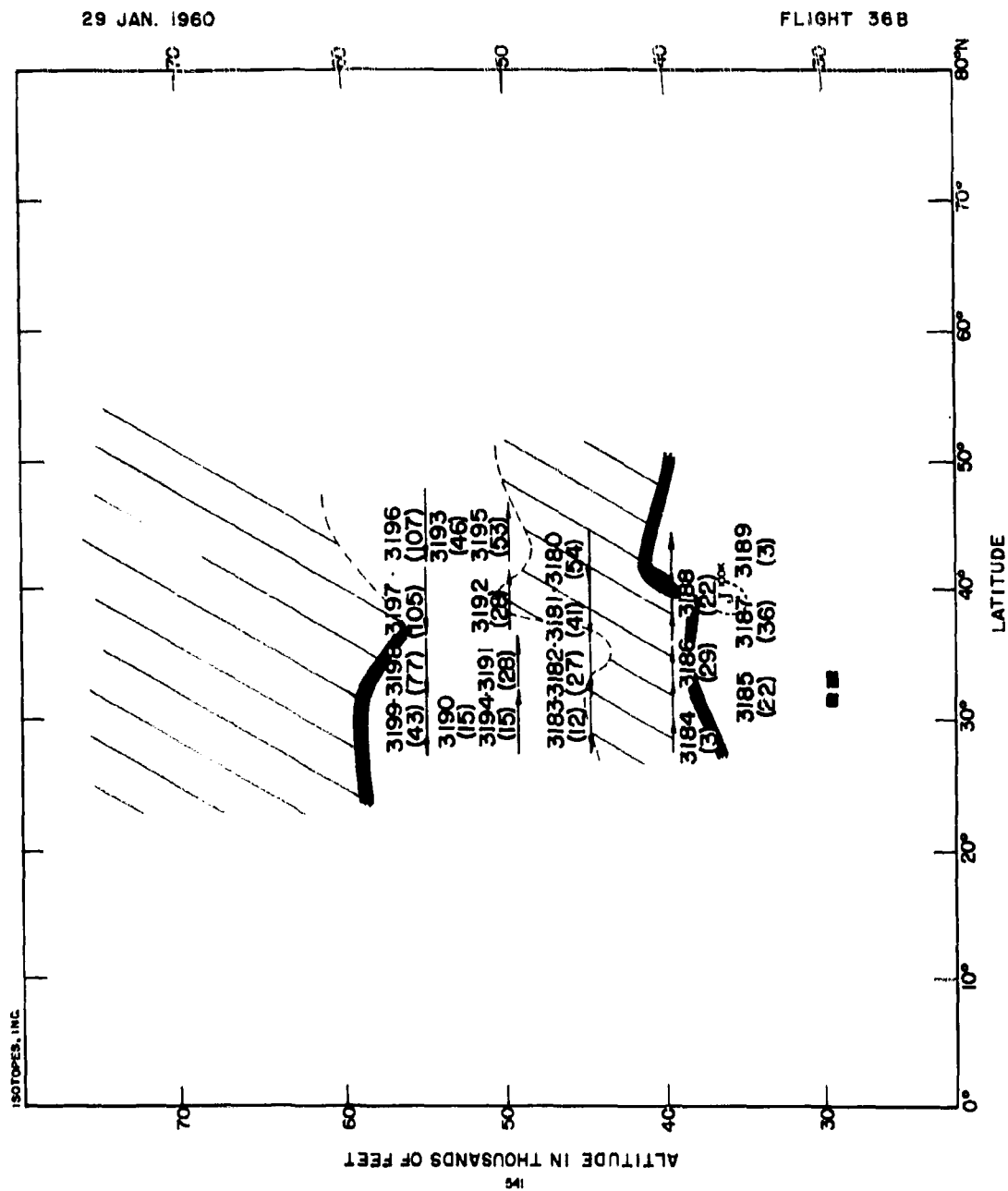


FIGURE 4.221 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>2 February 1960 Mission 37A</u>								
718	3200	30°N	63.8	7,600	166 ± 1	2250 ± 140	---	5.7
LN	3201	36°N	64.1	9,000	187 ± 1	2250 ± 140	---	---
	3202	41°N	64.3	8,500	164 ± 2	2250 ± 140	---	7.0
	3204	41°N	64.3	7,700	148 ± 2	---	---	---
	3203	46°N	64.8	10,400	252 ± 30	2250 ± 140	---	---
	3205	46°N	64.8	9,700	189 ± 4	---	---	---
	3206	46°N	65.2	17,000	258 ± 7	1650 ± 170	---	7.2
	3207	41°N	66.3	8,800	163 ± 6	1650 ± 170	---	---
	3208	36°N	67.1	14,500	241 ± 6	1650 ± 170	---	---
	3209	30°N	68.3	14,200	260 ± 2	1650 ± 170	---	7.0
705	3214	26°N	63.8	7,200	164 ± 15	---	---	6.3
LS	3210	22°N	64.6	7,000	165 ± 4	2400 ± 300	---	---
	3211	18°N	65.5	5,900	111 ± 1	2400 ± 300	---	---
	3212	15°N	66.1	6,500	141 ± 4	2400 ± 300	---	---
	3215	15°N	66.1	6,100	137 ± 1	---	---	---
	3213	15°N	66.5	6,300	148 ± 1	2400 ± 300	---	6.7
	3217	18°N	66.5	8,600	170 ± 3	1800 ± 200	---	6.2
	3218	22°N	67.4	10,300	196 ± 4	1800 ± 200	---	---
	3219	26°N	67.6	10,800	222 ± 4	1800 ± 200	---	7.0

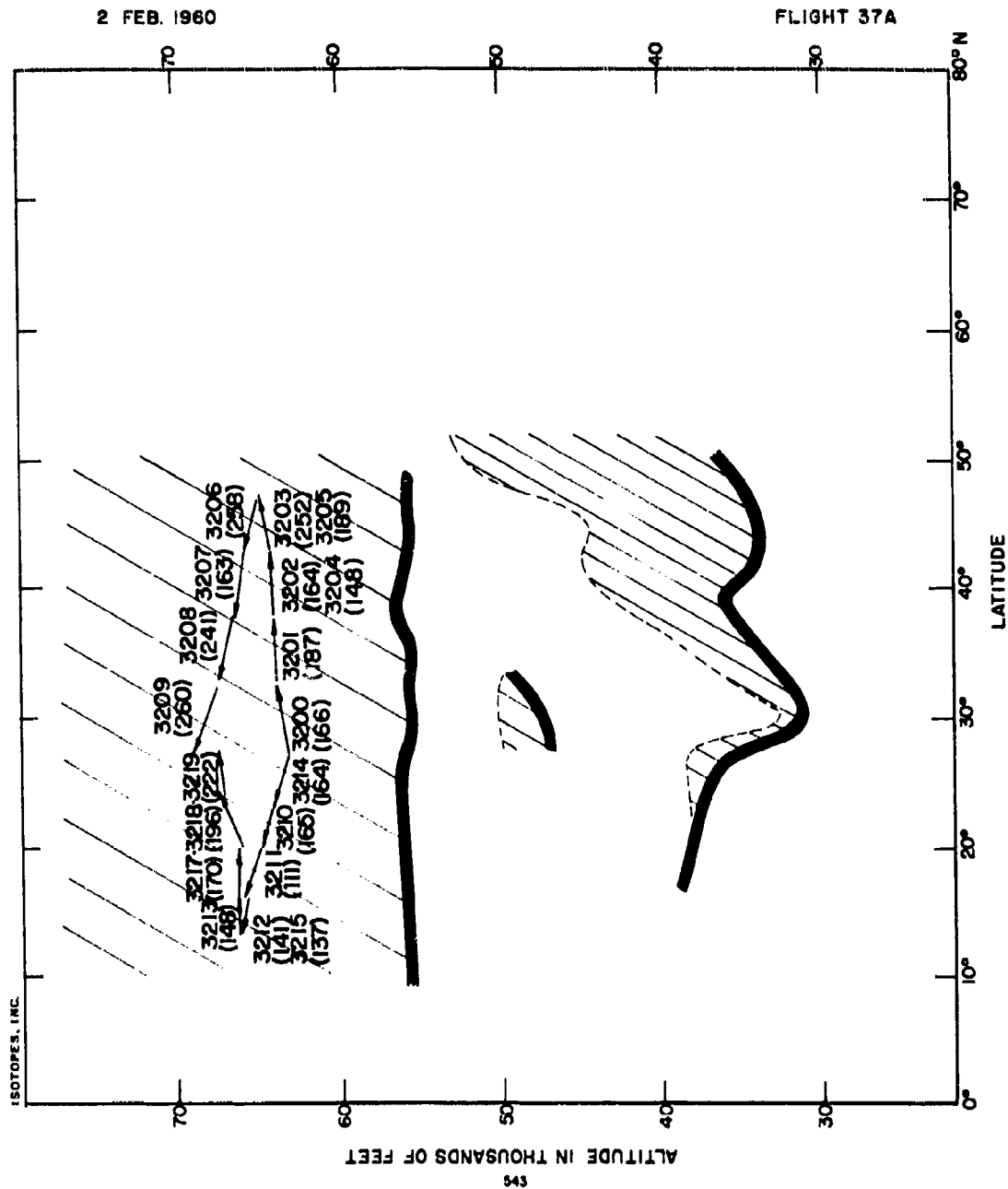


FIGURE 4.222 FLIGHT CROSS SECTION

Table 4.3 (continued)

		dpm/1000 SCF						
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>3 February 1960 Mission 37B</u>								
716	3220	48°N	30	280	4 ± 1	---	---	---
MO	3224	48°N	30	≤ 230	2 ± 1	---	---	---
	3221	48°N	40	2,300	42 ± 1	---	---	6.7
	3225	48°N	40	2,900	55 ± 2	---	---	7.2
	3222	48°N	50	2,600	58 ± 1	---	---	6.0
	3223	48°N	57.5	5,200	90 ± 2	---	---	6.9
717	3226	48°N	45	4,800	97 ± 3	---	---	6.1
MO	3230	48°N	45	4,100	93 ± 3	---	---	2.5
	3227	48°N	50	2,000	41 ± 1	---	---	7.0
	3231	48°N	50	2,200	38 ± 1	---	---	16
	3228	48°N	55	4,700	101 ± 4	---	---	5.8
	3232	48°N	55	3,800	84 ± 2	---	---	6.3
	3229	48°N	60	10,700	174 ± 6	---	---	8.3
	3233	48°N	60	8,400	142 ± 4	---	---	8.3
	3234	48°N	64	10,800	166 ± 13	---	---	7.4
	3235	48°N	67.8	10,400	161 ± 6	---	---	7.4

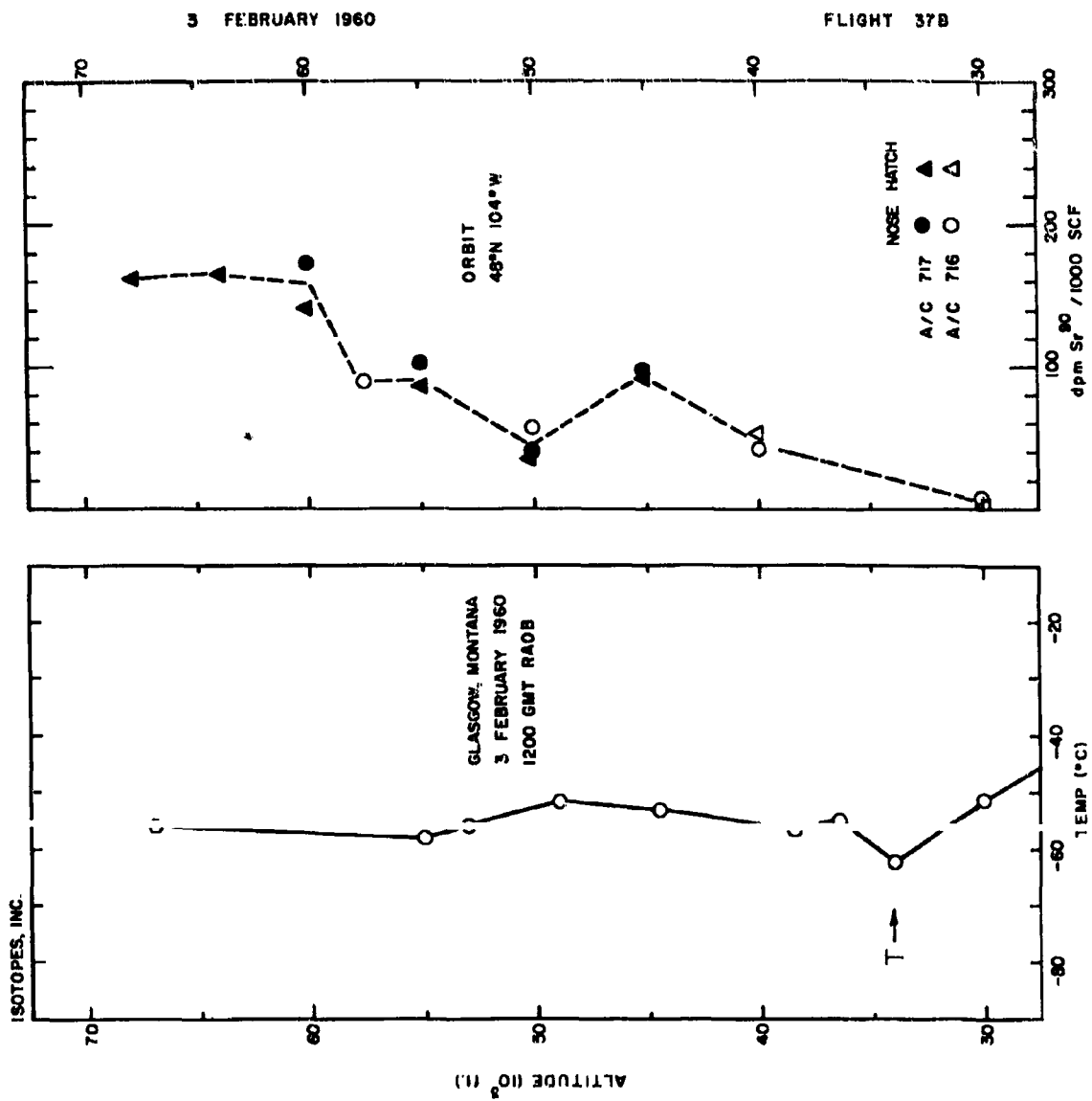


FIGURE 4.123 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>4 February 1960 Mission 38A</u>								
718	3236	30°N	60	3,300	69 $\pm$ 1	---	---	6.7
LN	3237	36°N	60	4,900	114 $\pm$ 1	---	---	---
	3238	42°N	60	5,800	109 $\pm$ 1	---	---	---
	3240	42°N	60	5,400	122 $\pm$ 5	---	---	5.9
	3239	47°N	60	6,700	144 $\pm$ 6	---	---	---
	3241	47°N	60	6,300	136 $\pm$ 1	---	---	6.7
	3242	47°N	64.7	11,300	209 $\pm$ 3	3650 $\pm$ 180	---	7.1
	3243	42°N	65	7,900	224 $\pm$ 2	3650 $\pm$ 180	---	---
	3244	35°N	65.2	6,500	146 $\pm$ 1	3650 $\pm$ 180	---	7.4
705	3246	26°N	59.7	2,100	39 $\pm$ 1	7450 $\pm$ 160	---	7.1
LS	3247	22°N	60	2,200	40 $\pm$ 1	7450 $\pm$ 160	---	---
	3248	18°N	60	$\leq$ 1,340	20 $\pm$ 2	7450 $\pm$ 160	---	---
	3250	18°N	60	1,480	27 $\pm$ 1	---	---	6.2
	3249	15°N	60	1,280	28 $\pm$ 1	7450 $\pm$ 160	---	---

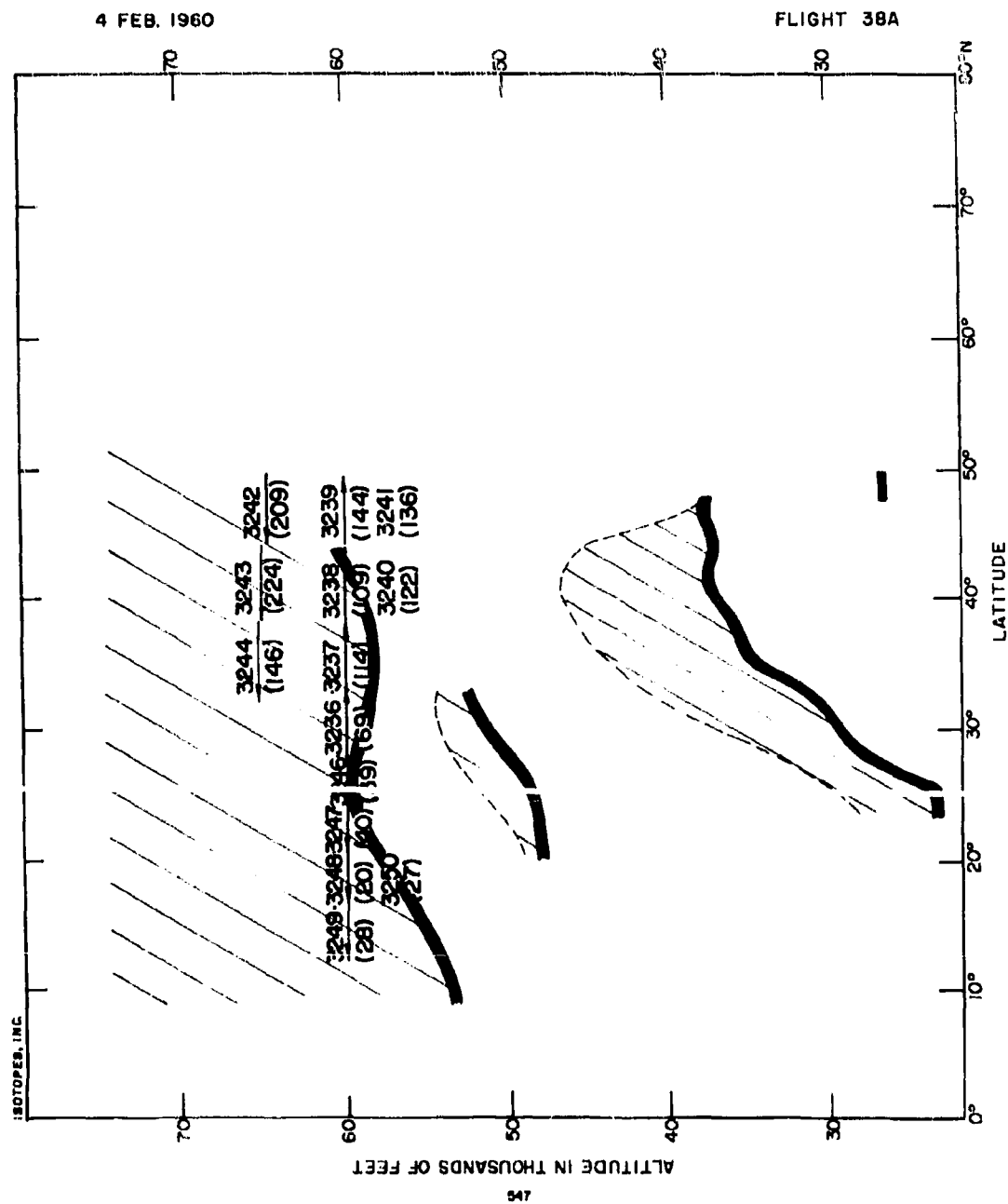


FIGURE 4.224 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>6 February 1960 Mission 38B</u>								
715	3252	48°N	45	3,600	70 ± 1	---	---	6.0
MO	3256	48°N	45	3,800	70 ± 1	---	---	7.0
	3253	48°N	50	5,100	118 ± 3	---	---	6.1
	3257	48°N	50	7,700	158 ± 1	---	---	6.2
	3254	48°N	55	6,700	128 ± 1	---	---	6.6
	3258	48°N	55	9,400	182 ± 1	---	---	6.4
	3255	48°N	60	14,100	173 ± 1	---	---	10
	3259	48°N	60	16,900	195 ± 5	---	---	13
	3260	48°N	64	15,800	212 ± 8	---	---	11
	3261	48°N	66.5	12,600	201 ± 4	---	---	12

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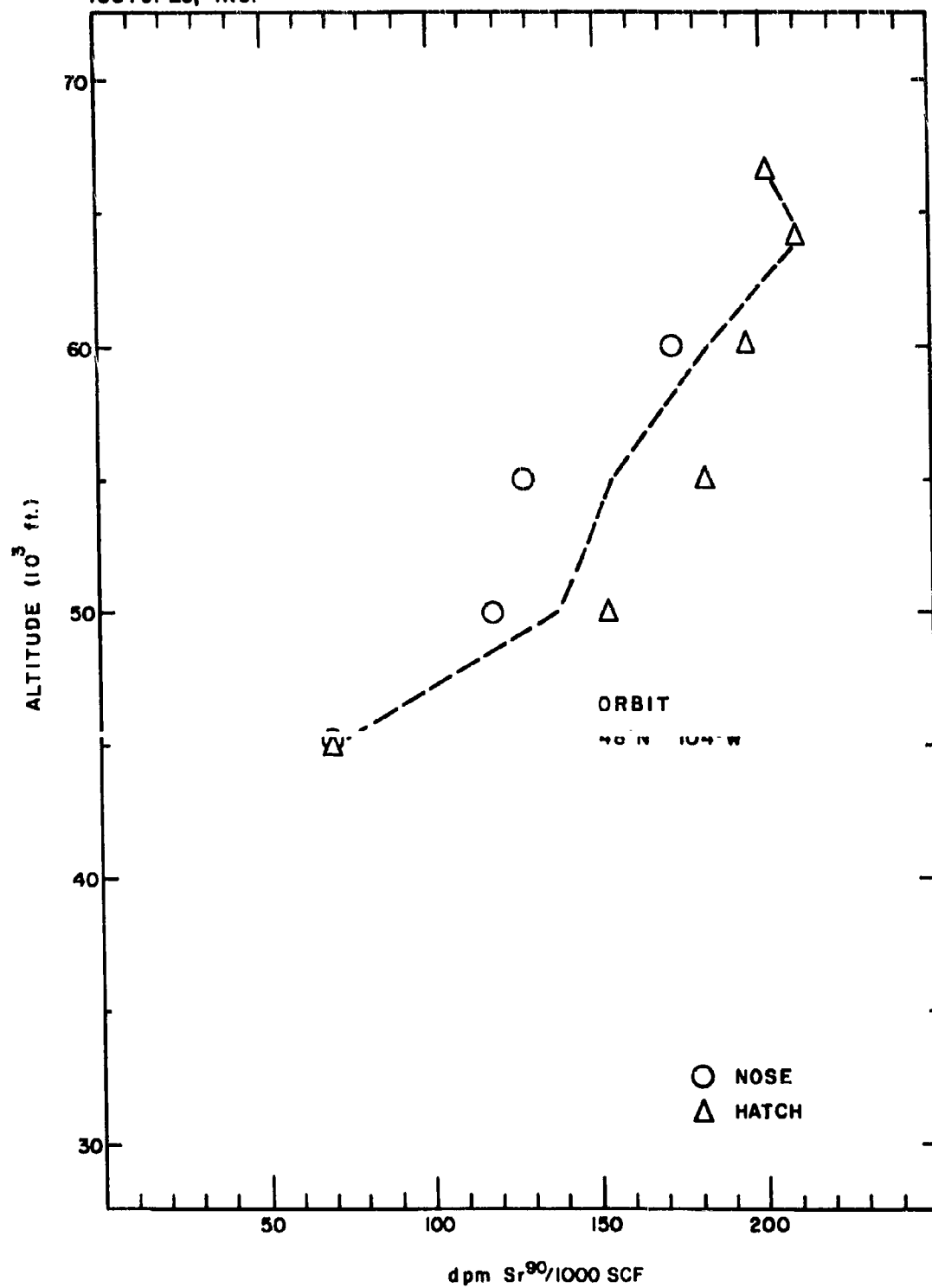


FIGURE 4.225 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
11 February 1960 Mission 40A								
705	3279	30°N	63.8	9,100	159 ± 6	---	---	7.3
LN	3280	36°N	64	12,700	195 ± 1	1155 ± 111	---	---
	3281	42°N	64.3	15,000	211 ± 1	1155 ± 111	---	10
	3282	47°N	64.6	16,200	212 ± 1	1155 ± 111	---	9.6
	3283	47°N	65.5	19,300	210 ± 6	1155 ± 98	---	12
	3284	42°N	66.6	17,200	255 ± 23	1155 ± 98	---	---
	3285	36°N	67.1	15,200	238 ± 14	1155 ± 98	---	7.4
	3286	30°N	67.8	13,100	190 ± 7	---	---	7.5
718	3287	26°N	63.9	8,000	128 ± 1	2310 ± 100	---	8.1
LS	3288	22°N	65.3	7,100	111 ± 1	2310 ± 100	---	---
	3289	18°N	65.9	5,800	137 ± 3	2310 ± 100	---	---
	3291	18°N	65.9	6,800	121 ± 1	---	---	---
	3290	15°N	66.5	6,300	123 ± 1	2310 ± 100	---	6.4
	3292	15°N	66.5	5,200	125 ± 4	---	---	---
	3293	15°N	66.9	6,700	137 ± 1	1155 ± 103	---	5.9
	3294	16°N	67	7,100	167 ± 1	1155 ± 103	---	---
	3295	22°N	67.9	10,100	193 ± 9	1155 ± 103	---	7.7
	3296	26°N	68.6	13,900	220 ± 3	1155 ± 103	---	7.4

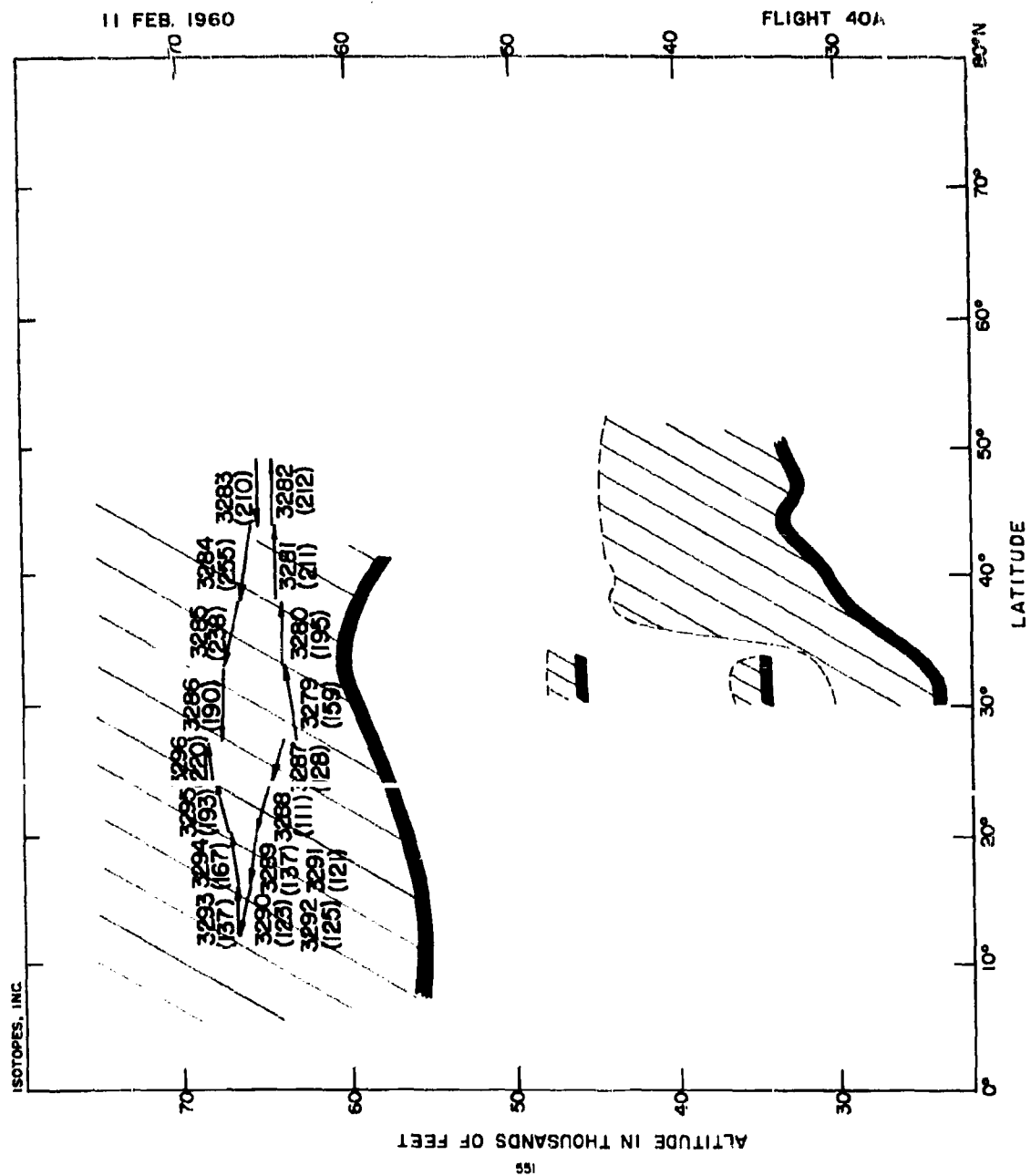


FIGURE 4.226 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W185 (Aug 58)		
<u>12 February 1960 Mission 40B</u>								
716	3262	48°N	30	< 220	2 ± 1	---	---	---
MO	3266	48°N	30	< 240	1.2 ± 0.1	---	---	---
	3263	48°N	40	2,800	57 ± 1	---	---	5.4
	3264	48°N	50	3,100	59 ± 2	---	---	7.1
	3265	48°N	57.5	7,600	145 ± 5	---	---	7.0
	3267	48°N	57.5	9,200	183 ± 1	---	---	6.0
	3268	48°N	65	15,600	231 ± 1	---	---	7.6
715	3270	48°N	45	3,700	69 ± 1	---	---	6.9
MO	3273	48°N	45	4,400	86 ± 1	---	---	5.5
	3271	48°N	50	3,100	69 ± 1	---	---	5.4
	3274	48°N	50	4,500	93 ± 1	---	---	5.9
	3272	48°N	55	5,900	108 ± 1	---	---	2.9
	3275	48°N	55	7,900	180 ± 1	---	---	6.3
	3269	48°N	60	11,400	175 ± 2	---	---	6.9
	3276	48°N	60	13,000	225 ± 2	---	---	7.4
	3277	48°N	64	14,300	249 ± 1	---	---	7.0
	3278	48°N	67	18,900	257 ± 1	---	---	8.7

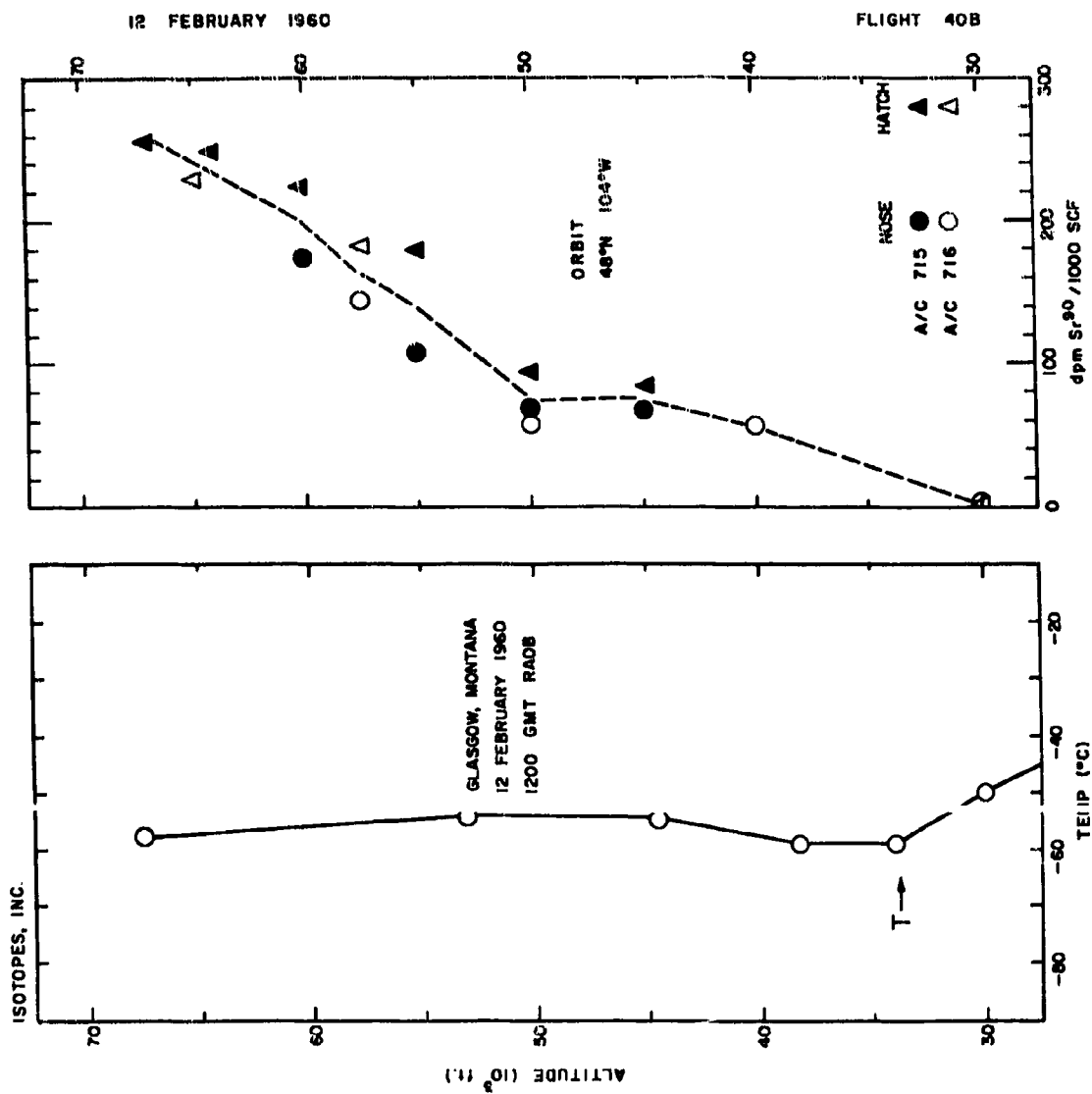


FIGURE 4.22' FLIGHT PROFILE

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug. 58)	Sr ⁹⁰	Sr ⁹⁰
16 February 1960 Mission 41								
716	3316	52°N	45	4,700	103 ± 1	---	---	6.5
MN	3317	55°N	45	4,800	106 ± 2	1710 ± 30	---	---
	3318	58°N	45	5,300	118 ± 2	1710 ± 30	---	5.6
	3319	61°N	45	5,400	107 ± 3	1710 ± 30	---	---
	3320	64°N	45	5,800	117 ± 2	1710 ± 30	---	6.5
	3312	66°N	55	6,000	88 ± 1	1539 ± 46	---	8.8
	3313	62°N	55	6,800	118 ± 1	1539 ± 46	---	---
	3314	57°N	55	6,200	108 ± 1	1539 ± 46	---	7.4
	3315	53°N	55	6,200	103 ± 1	1539 ± 46	---	---
717	3322	52°N	60	11,000	196 ± 2	1539 ± 43	---	---
MN	3323	56°N	60	10,600	200 ± 3	1539 ± 43	---	14
	3324	60°N	60	11,100	205 ± 1	1539 ± 43	---	---
	3326	60°N	60	11,400	263 ± 103	---	---	---
	3325	63°N	60.5	12,000	249 ± 9	1539 ± 43	---	6.2
	3327	63°N	60.5	13,200	202 ± 1	---	---	---
	3328	69°N	64	17,900	246 ± 4	684 ± 48	---	9.4
	3329	64°N	65	19,600	248 ± 6	684 ± 48	---	12
	3330	59°N	65	16,300	233 ± 4	684 ± 48	---	9.2
	3331	53°N	65	14,900	216 ± 7	684 ± 48	---	10
718	3301	4°N	60	1,530	30 ± 1	---	---	6.2
RS	3297	5°S	64.5	3,000	71 ± 2	3420 ± 70	---	---
	3298	1°N	65	3,700	104 ± 4	3420 ± 70	---	---
	3299	6°N	65.3	4,800	106 ± 5	3420 ± 70	---	5.6
	3300	13°N	65.3	5,600	130 ± 4	3420 ± 70	---	5.9
705	3302	12°N	64.7	4,500	116 ± 4	3250 ± 80	---	6.0
RS	3303	6°N	64.6	4,200	93 ± 3	3250 ± 80	---	---
	3304	1°N	65.1	4,600	81 ± 2	3250 ± 80	---	---
	3306	1°N	65.1	4,800	98 ± 1	---	---	---
	3305	5°S	65.7	4,200	97 ± 2	3250 ± 80	---	---
	3307	5°S	65.7	5,800	97 ± 2	---	---	5.4
	3309	2°S	66.7	6,500	116 ± 1	4450 ± 110	---	6.4
	3310	6°N	68.1	9,400	194 ± 2	4450 ± 110	---	5.7
	3311	12°N	68.9	10,000	196 ± 2	4450 ± 110	---	5.5

16 FEB. 1960

FLIGHT 41

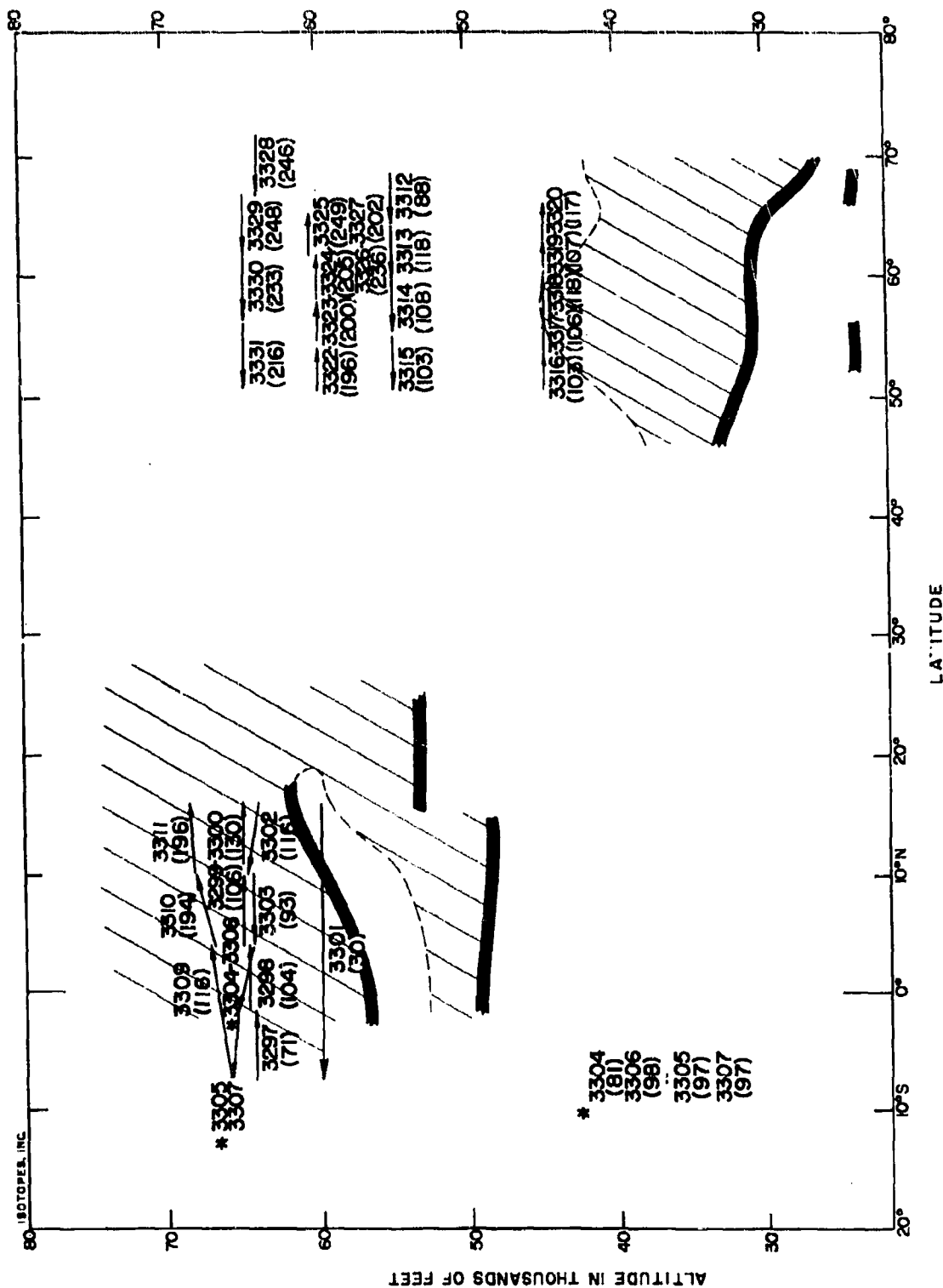


FIGURE 4.228 FLIGHT CROSS SECTION

Table 4.3 (continued)

dprn/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>18 February 1960 Mission 42A</u>								
717	3336	52°N	40	5,400	115 ± 1	2980 ± 50	---	6.2
MN	3337	55°N	40	5,500	103 ± 2	2980 ± 50	---	6.2
	3338	58°N	40	3,900	81 ± 1	2980 ± 50	---	---
	3339	60°N	40	4,000	93 ± 2	1750 ± 50	---	---
	3340	63°N	40	4,100	99 ± 1	1750 ± 50	---	6.3
	3341	66°N	40	4,100	88 ± 1	1750 ± 50	---	---
	3332	65°N	50	5,500	114 ± 1	1750 ± 60	---	---
	3333	61°N	50	6,100	143 ± 6	1750 ± 60	---	6.3
	3334	57°N	50	7,400	140 ± 1	1750 ± 60	---	---
	3335	52°N	50	7,000	132 ± 6	1750 ± 60	---	6.7

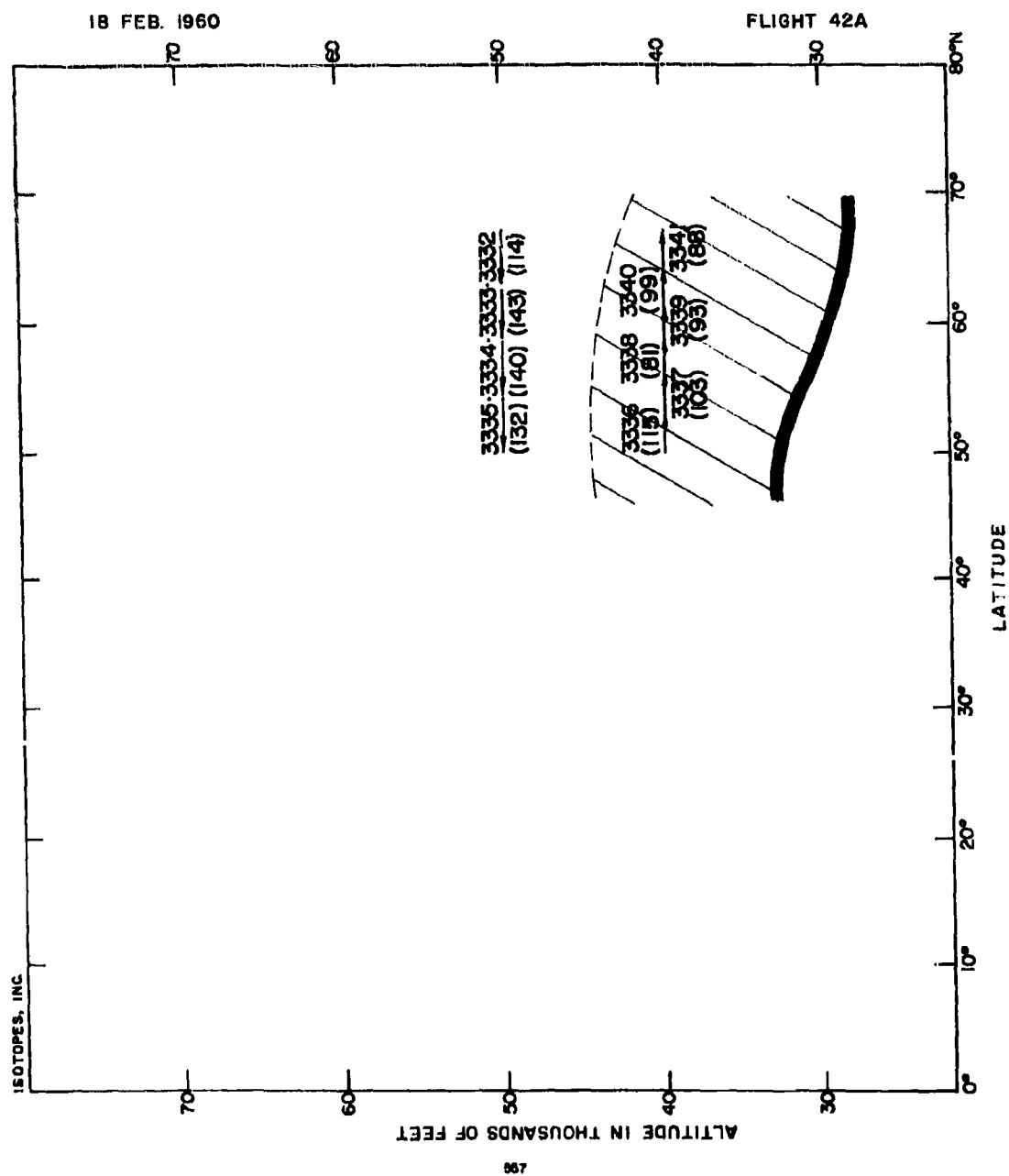


FIGURE 4.229 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
19 February 1960 Mission 42B								
705	3342	12°N	60	1,630	23 ± 1	---	---	---
RS	3346	6°N	60	1,740	35 ± 1	---	---	5.7
	3343	6°N	60	1,210	31 ± 1	---	---	---
	3344	1°N	60	1,450	25 ± 1	---	---	---
	3345	5°S	60	1,070	19 ± 1	---	---	---
	3347	5°S	60	1,170	30 ± 1	---	---	---
718	3348	12°N	64.2	5,000	92 ± 1	3190 ± 160	---	6.5
RS	3349	6°N	64.9	4,600	99 ± 1	3190 ± 160	---	---
	3350	1°N	65.4	5,100	105 ± 3	3190 ± 160	---	5.6
	3352	1°N	65.4	5,600	144 ± 1	---	---	4.6
	3351	5°S	66.4	4,300	101 ± 2	3190 ± 160	---	---
	3353	5°S	66.4	5,100	125 ± 3	---	---	---

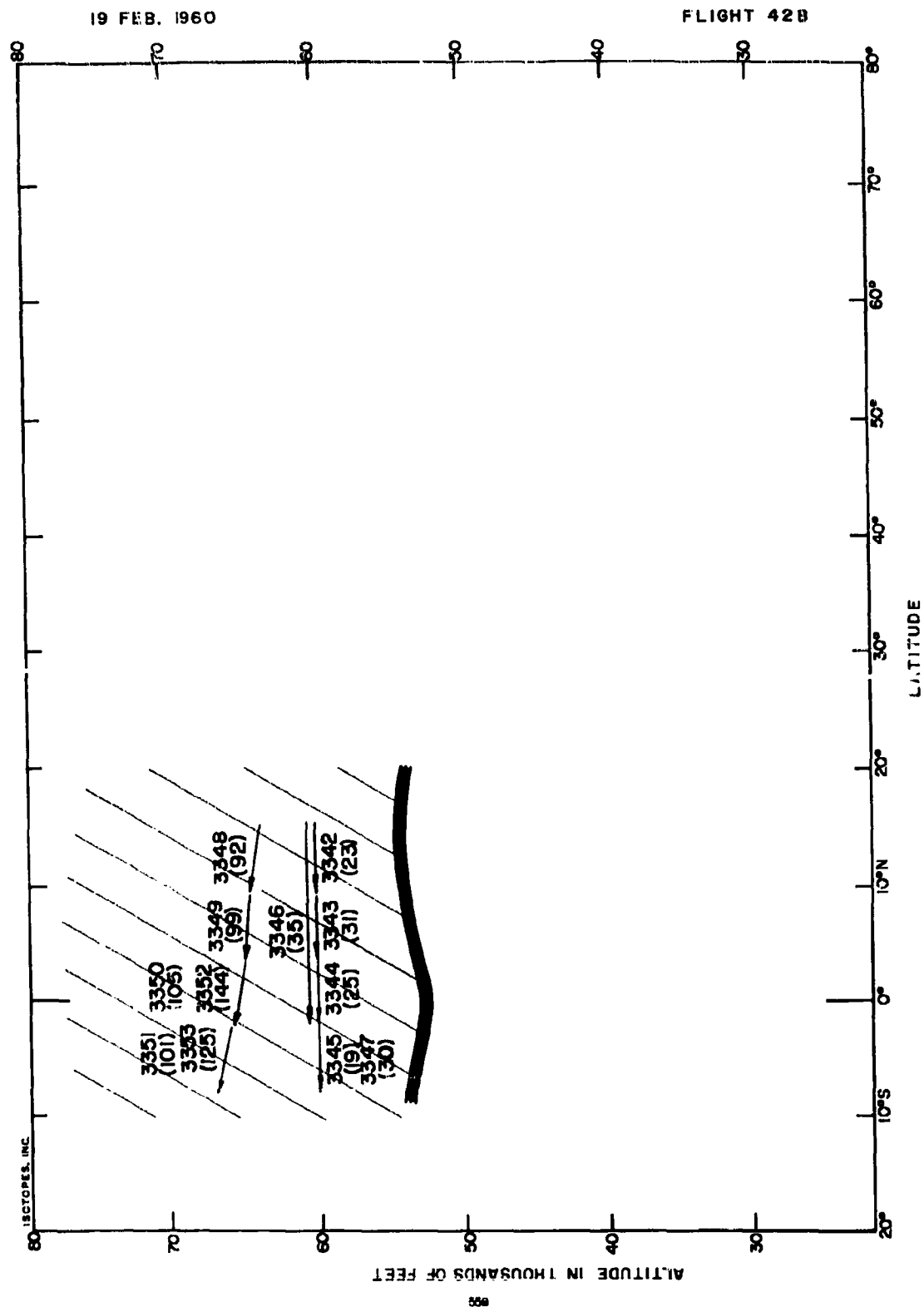


FIGURE 4.230 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
<u>23 February 1960 Mission 43</u>								
716	3354	48°N	30	850	21 ± 1	---	---	---
MO	3355	48°N	40	4,300	81 ± 2	---	---	6.9
	3356	48°N	50	5,400	99 ± 3	---	---	7.7
	3357	48°N	69.2	25,000	322 ± 8	---	---	10
717	3358	48°N	45	3,500	69 ± 1	---	---	6.2
MO	3362	48°N	45	3,500	58 ± 2	---	---	9.3
	3359	48°N	50	4,500	87 ± 2	---	---	7.6
	3363	48°N	50	4,800	111 ± 3	---	---	6.9
	3360	48°N	55	6,100	117 ± 3	---	---	7.5
	3364	48°N	55	7,000	129 ± 3	---	---	7.4
	3361	48°N	60	12,000	201 ± 2	---	---	7.8
	3365	48°N	60	15,800	223 ± 5	---	---	9.0
	3366	48°N	64	18,400	248 ± 5	---	---	9.7
	3367	48°N	69.5	15,600	217 ± 7	---	---	11

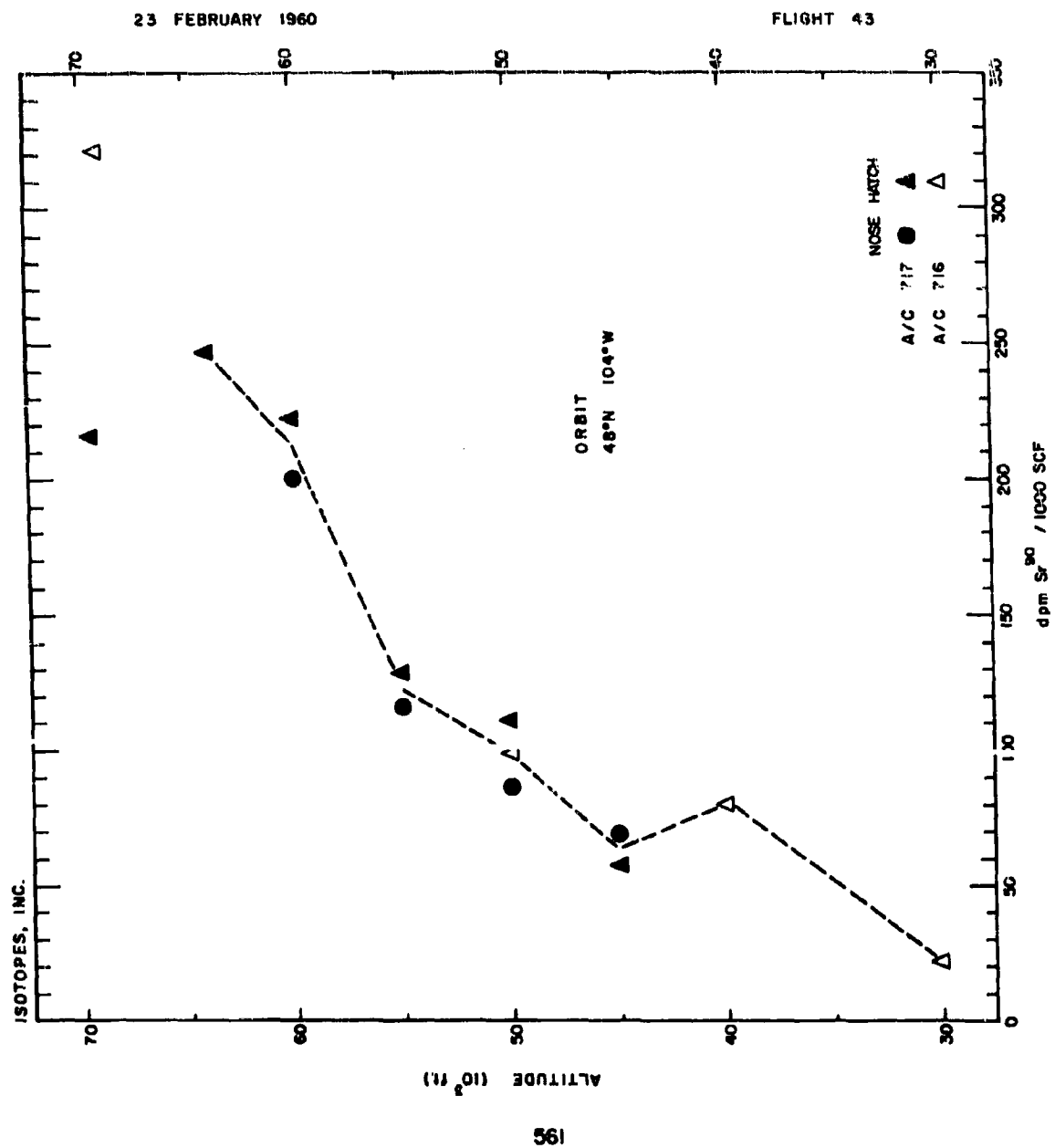


FIGURE 4.231 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/ 1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W185 (Aug 58)		
25 February 1960 Mission 44								
716	3372	52°N	45	6,500	151 ± 1	1880 ± 160	---	6.0
MN	3373	55°N	45	7,200	165 ± 1	1880 ± 160	---	5.9
	3374	58°N	45	6,900	167 ± 1	1880 ± 160	---	---
	3375	61°N	45	6,900	151 ± 14	1504 ± 116	---	---
	3376	64°N	45	3,900	94 ± 1	1504 ± 116	---	5.5
	3377	67°N	45	4,000	90 ± 4	1504 ± 116	---	6.4
	3368	66°N	55	7,500	133 ± 1	11840 ± 200	---	6.9
	3369	62°N	55	13,600	186 ± 2	11840 ± 200	---	10
	3370	57°N	55	9,700	166 ± 1	11840 ± 200	---	---
	3371	53°N	55	7,400	130 ± 1	11840 ± 200	---	6.9
717	3378	52°N	59.5	12,300	221 ± 1	≤ 1316	---	7.3
MN	3379	56°N	60	11,000	218 ± 2	≤ 1316	---	---
	3380	60°N	60	13,600	226 ± 2	≤ 1316	---	---
	3381	63°N	60	22,100	236 ± 4	≤ 1316	---	11
705	3382	30°N	60	7,400	110 ± 1	940 ± 60	---	7.7
LN	3383	35°N	60	11,400	170 ± 1	940 ± 60	---	---
	3384	40°N	60	11,900	166 ± 1	940 ± 60	---	---
	3386	40°N	60	14,200	189 ± 1	---	---	---
	3385	45°N	60	13,100	184 ± 4	940 ± 60	---	9.6
	3387	45°N	60	13,500	229 ± 2	---	---	9.5
	3388	45°N	65	17,700	252 ± 3	564 ± 78	---	9.9
	3389	40°N	65	19,500	208 ± 2	564 ± 78	---	---
	3390	35°N	65	15,000	235 ± 3	564 ± 78	---	---
	3391	30°N	65	10,500	205 ± 4	564 ± 78	---	8.2
	718	3392	26°N	60	4,700	65 ± 2	---	---
LS	3393	23°N	60	1,360	26 ± 1	---	---	---
	3394	19°N	60	960	13 ± 1	---	---	---
	3396	19°N	60	900	15 ± 1	---	---	---
	3395	15°N	60	820	12 ± 1	---	---	---
	3397	15°N	60	750	13 ± 1	---	---	---
	3398	15°N	65	3,900	94 ± 2	---	---	---
	3399	19°N	65.5	4,000	95 ± 1	---	---	---
	3400	23°N	65.5	8,100	156 ± 2	---	---	7.1
	3401	26°N	65.5	9,900	177 ± 1	---	---	7.8

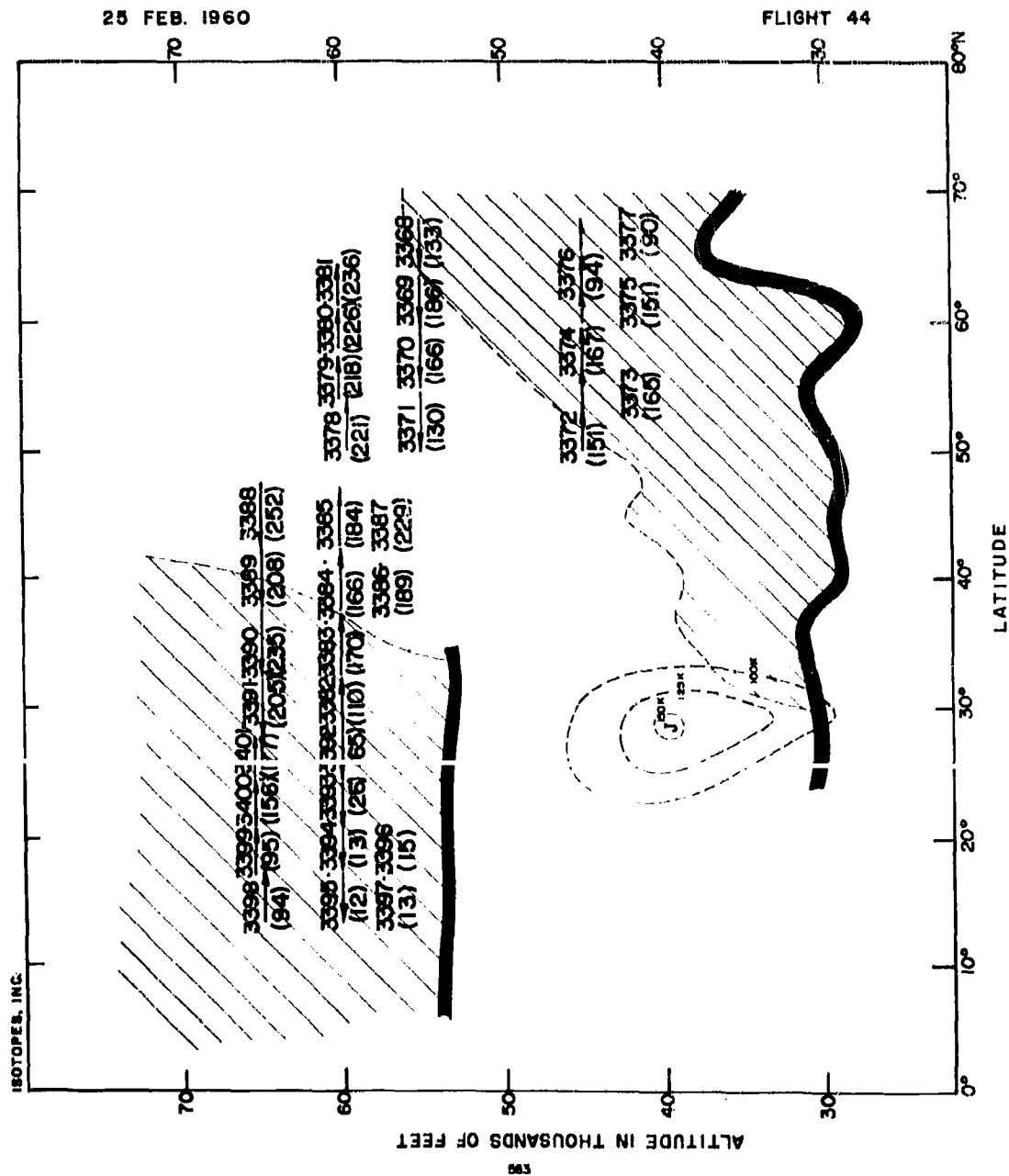


FIGURE 4.232 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>1 March 1960 Mission 45</u>								
717	3406	52°N	40	3,800	109 ± 2	1791 ± 107	---	4.9
MN	3407	55°N	40	4,600	183 ± 2	1791 ± 107	---	---
	3408	58°N	40	6,000	132 ± 1	1791 ± 107	---	6.3
	3409	61°N	40	6,000	116 ± 1	1393 ± 77	---	---
	3410	63°N	40	3,400	72 ± 1	1393 ± 77	---	---
	3411	66°N	40	4,000	77 ± 2	1393 ± 77	---	5.5
	3402	65°N	50	7,200	128 ± 2	1393 ± 96	---	6.1
	3403	61°N	50	4,100	75 ± 1	1393 ± 96	---	---
	3404	57°N	50	7,600	143 ± 2	1393 ± 96	---	6.6
	3405	52°N	50	5,700	123 ± 1	1393 ± 96	---	---

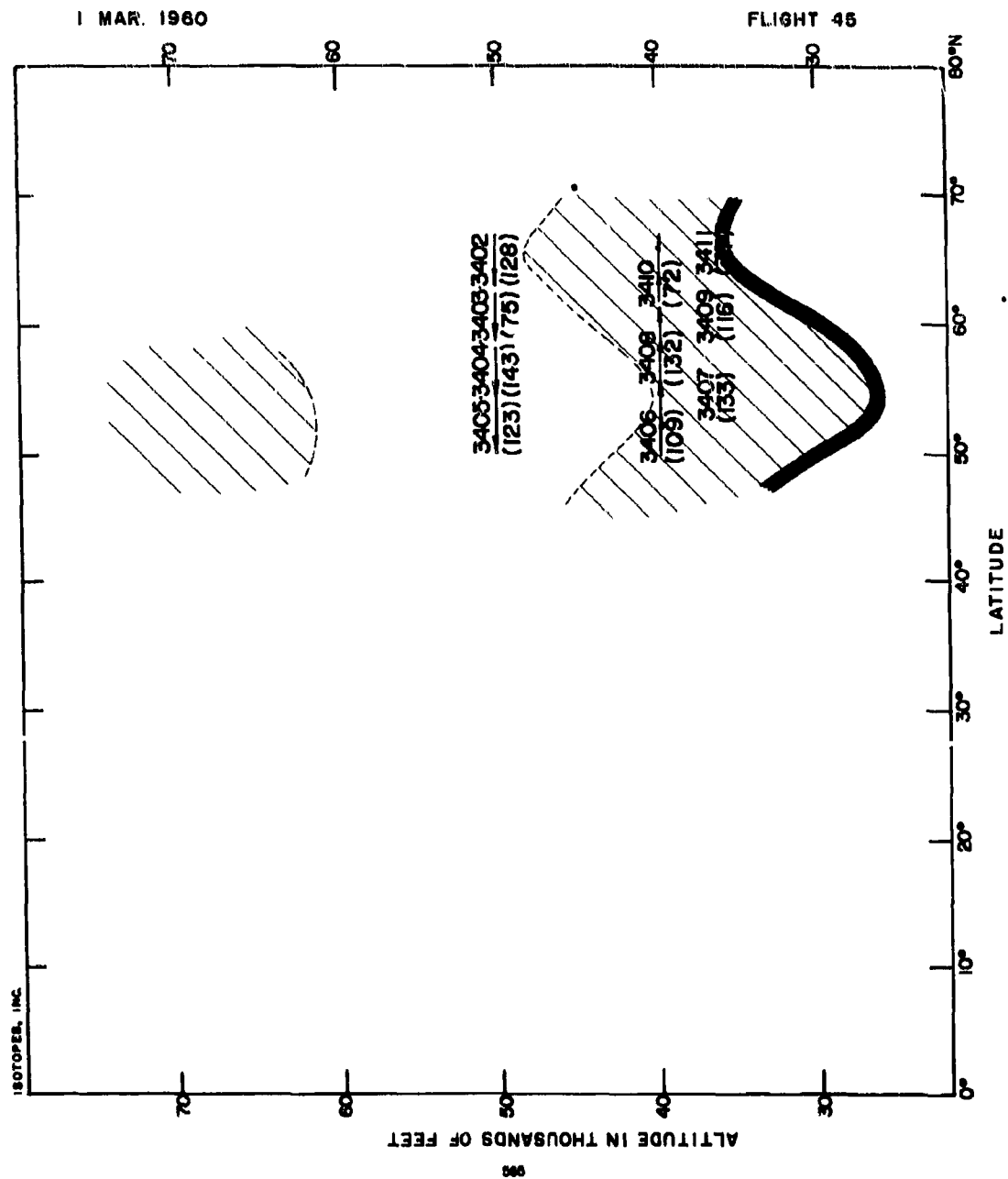


FIGURE 4.233 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
<u>3 March 1960 Mission 46A</u>								
717	3412	53°N	55	10,000	178 $\pm$ 1	1206 $\pm$ 129	---	7.1
MN	3413	59°N	55	8,800	163 $\pm$ 1	1206 $\pm$ 129	---	---
	3414	64°N	55	8,400	149 $\pm$ 1	1206 $\pm$ 129	---	7.8
	3416	64°N	55	6,100	105 $\pm$ 1	---	---	---
	3415	69°N	55	7,400	142 $\pm$ 2	1206 $\pm$ 129	---	7.5
	3417	69°N	55	8,000	144 $\pm$ 1	---	---	6.2

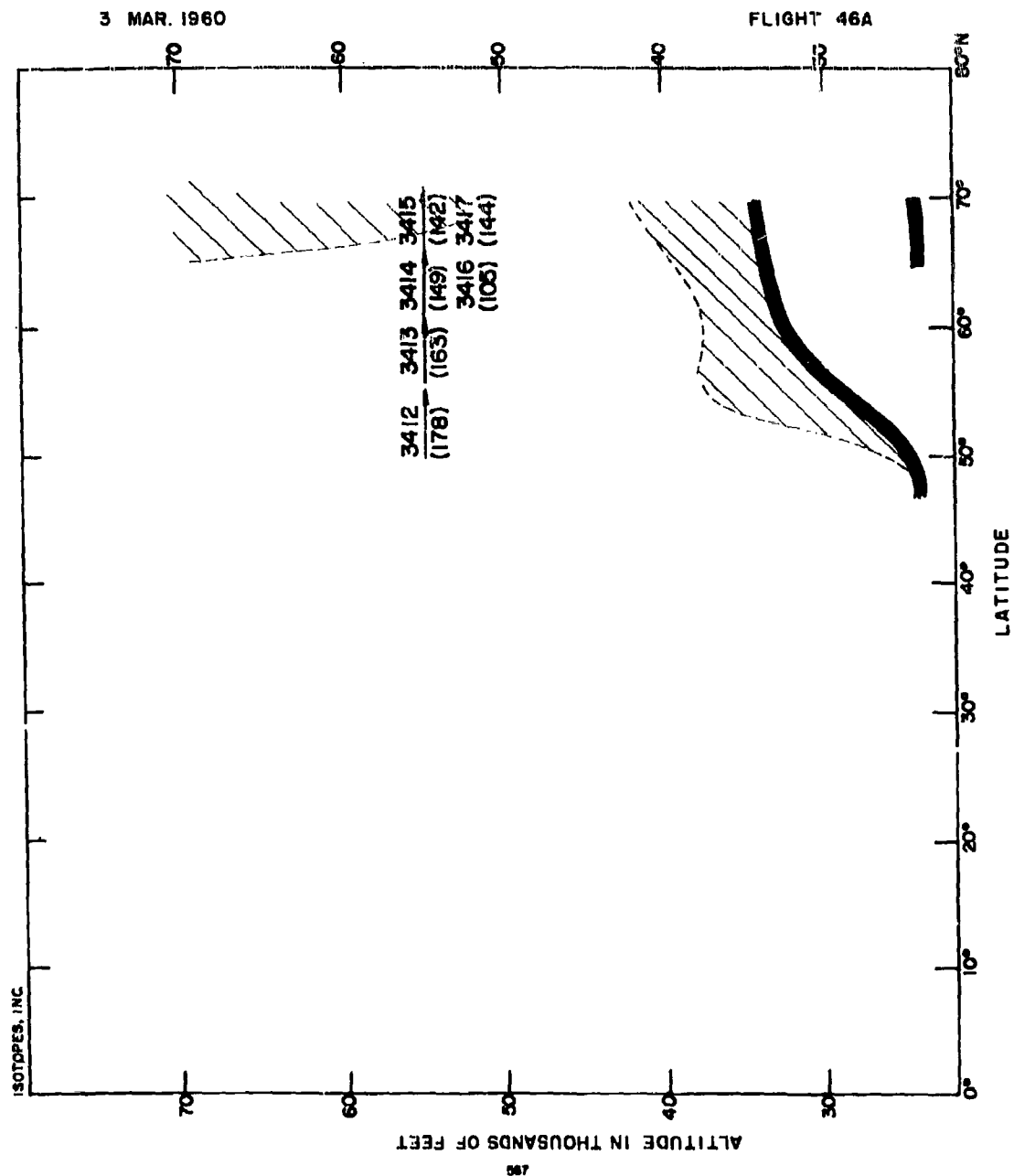


FIGURE 4-234 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>4 March 1960 Mission 46B</u>								
718	3418	30°N	64.1	10,100	186 ± 2	1020 ± 220	---	6.3
LN	3419	36°N	64.5	10,800	186 ± 3	1020 ± 220	---	7.4
	3420	42°N	64.4	12,100	213 ± 1	1020 ± 220	---	7.1
	3422	42°N	64.4	11,700	196 ± 2	816 ± 141	---	7.9
	3421	47°N	64.8	14,000	229 ± 1	1020 ± 220	---	8.3
	3423	47°N	64.8	13,100	212 ± 3	816 ± 141	---	---
	3424	48°N	65.2	15,000	208 ± 1	816 ± 141	---	---
	3425	42°N	61.7	11,300	194 ± 2	816 ± 141	---	---
705	3426	26°N	64	8,500	146 ± 1	< 2040	---	4.6
LS	3427	22°N	64.5	5,900	102 ± 1	< 2040	---	---
	3428	18°N	65.2	4,200	101 ± 1	< 2040	---	---
	3430	18°N	65.2	5,700	110 ± 1	1836 ± 147	---	---
	3429	14°N	65.4	6,400	107 ± 1	< 2040	---	5.7
	3431	14°N	65.4	6,300	107 ± 1	1836 ± 147	---	5.7
	3432	14°N	65.4	5,900	144 ± 1	1836 ± 147	---	5.1
	3433	18°N	66.3	6,800	145 ± 1	1836 ± 147	---	5.4
	3434	22°N	67.0	6,200	145 ± 3	---	---	6.5

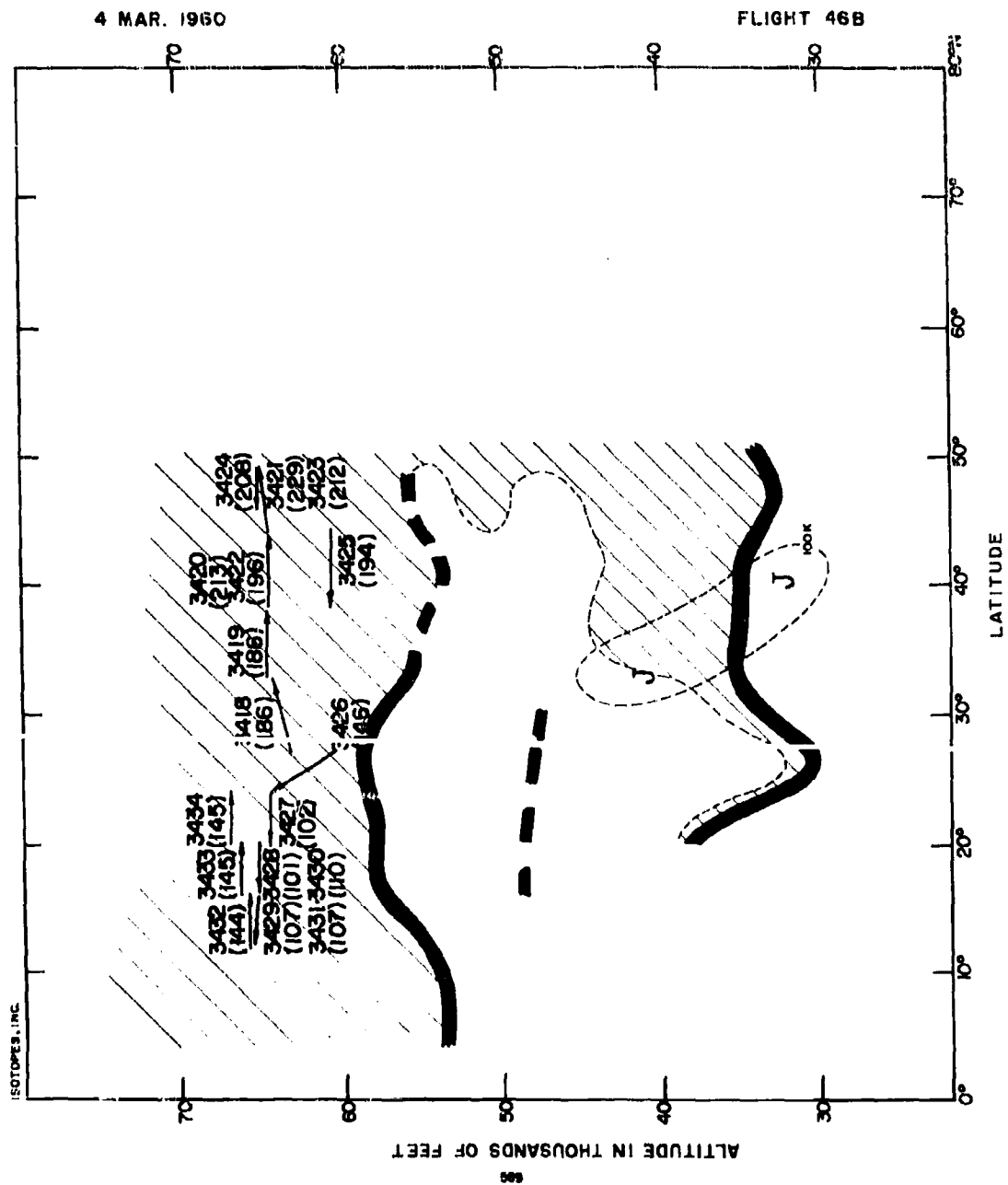


FIGURE 4.235 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>10 March 1960 Mission 48A</u>								
705	3439	29°N	39.5	400	Lost	---	---	---
LN	3440	32°N	39.5	< 510	1.1 ± 0.1	---	---	---
	3441	35°N	39.5	< 270	< 0.2	---	---	---
	3442	38°N	39.5	1,570	40 ± 1	---	---	5.4
	3443	40°N	39.5	2,500	59 ± 1	---	---	6.1
	3444	43°N	39.5	3,000	73 ± 1	---	---	5.2
	3435	42°N	45	3,000	65 ± 1	---	---	5.3
	3436	38°N	45	1,780	39 ± 1	---	---	5.0
	3437	34°N	45	< 400	4 ± 1	---	---	---
	3438	30°N	44.5	< 420	< 4	---	---	---
718	3445	30°N	50	530	10 ± 1	---	---	---
LN	3446	35°N	50	2,000	43 ± 1	---	---	5.2
	3447	40°N	50	3,900	81 ± 1	---	---	5.0
	3449	40°N	50	4,000	82 ± 1	---	---	6.0
	3448	45°N	50	5,400	120 ± 1	---	---	5.7
	3450	45°N	50	5,700	120 ± 1	---	---	5.5
	3451	45°N	54.5	6,700	136 ± 1	---	---	6.6
	3452	40°N	55	6,600	123 ± 1	---	---	6.5
	3453	35°N	55	3,600	73 ± 1	---	---	---
	3454	30°N	55	1,970	47 ± 1	---	---	---

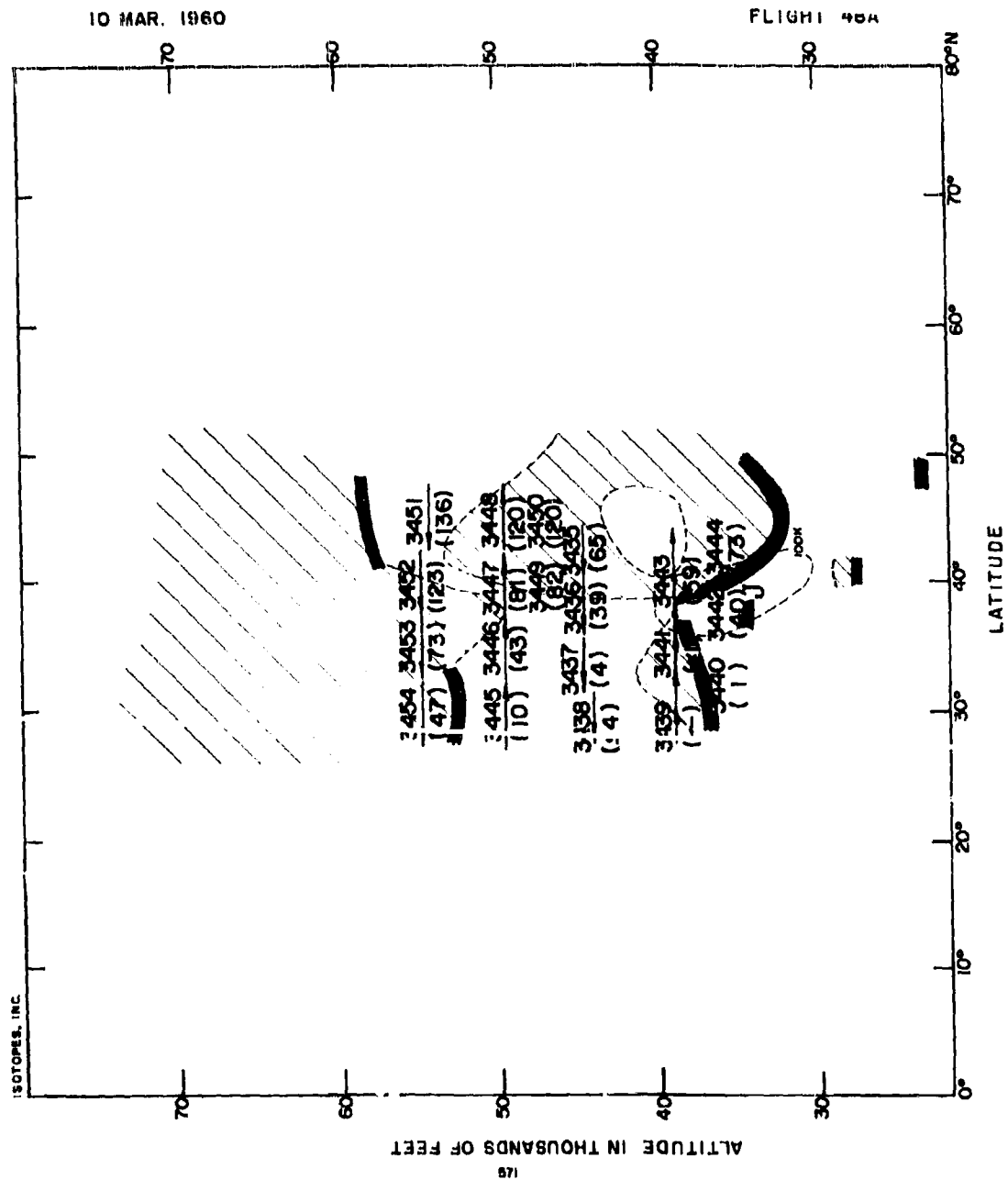


FIGURE 4.236 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>11 March 1960 Mission 48B</u>								
707	3455	53°N	40	3,700	74 ± 2	1533 ± 20	---	6.3
MN	3456	59°N	40	3,800	84 ± 3	1533 ± 20	---	5.7
	3457	65°N	40	3,800	86 ± 3	1533 ± 20	---	6.0
	3458	64°N	50	8,500	160 ± 5	1533 ± 31	---	8.5
	3459	59°N	50	7,600	135 ± 1	1533 ± 31	---	6.9
	3460	53°N	50	6,600	127 ± 3	1533 ± 31	---	7.9

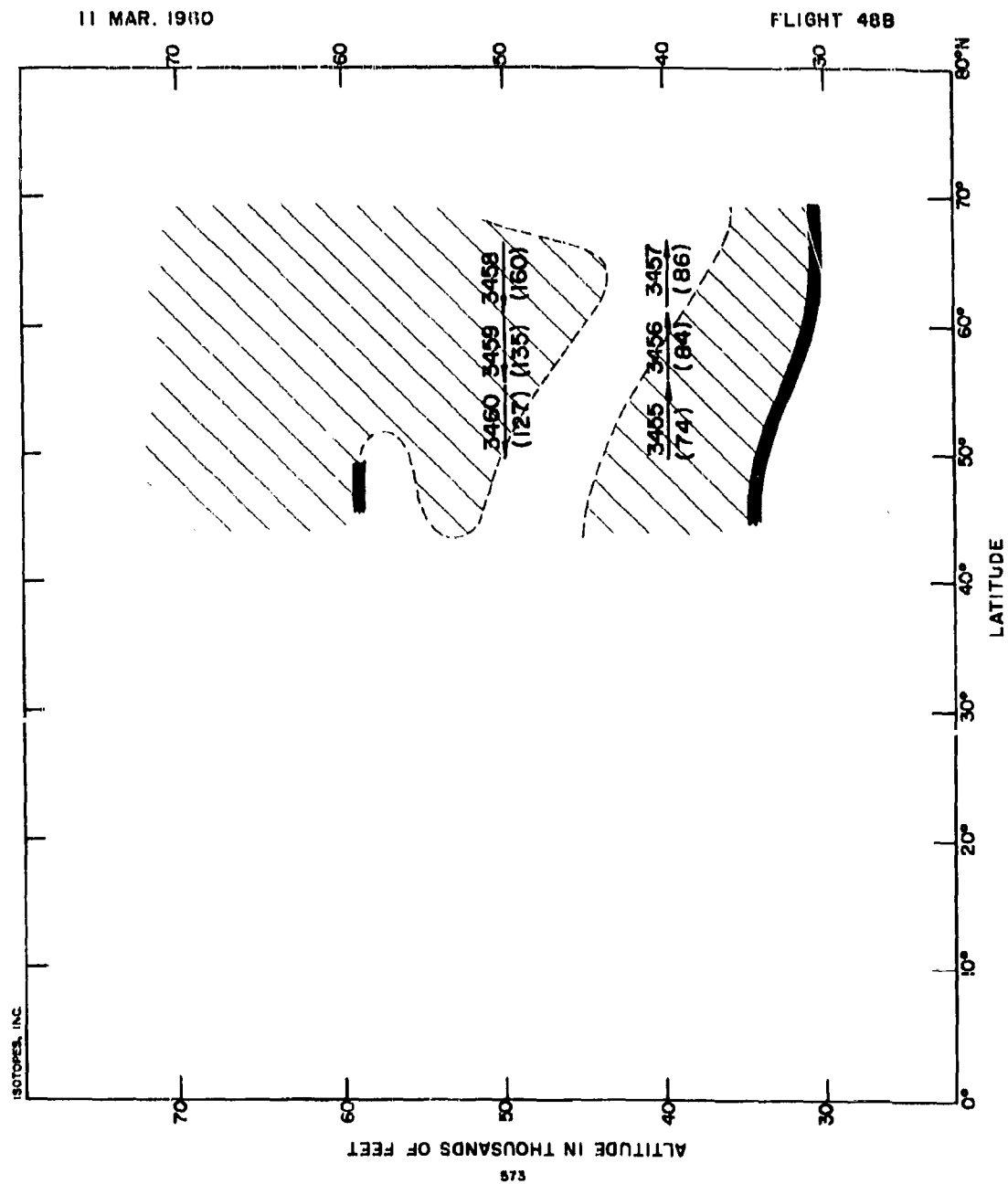


FIGURE 4.237 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>22 March 1960 Mission 51</u>								
707	3461	53°N	40	2,500	50 ± 1	1200 ± 30	---	---
MN	3462	59°N	40	3,300	73 ± 1	1200 ± 30	---	---
	3463	65°N	40	3,300	68 ± 1	1200 ± 30	---	---
	3464	64°N	50	6,700	138 ± 6	1200 ± 50	---	---
	3465	59°N	50	5,300	117 ± 1	1200 ± 50	---	---
	3466	53°N	50	2,700	53 ± 2	1200 ± 50	---	---
718	3473	30°N	50	< 540	7 ± 1	---	---	---
LN	3474	35°N	50	< 380	6 ± 1	---	---	---
	3475	40°N	50	< 230	1.4 ± 0.2	---	---	---
	3477	40°N	50	680	17 ± 1	---	---	---
	3476	46°N	50	1,410	28 ± 1	---	---	---
	3478	46°N	50	650	16 ± 1	---	---	---
	3479	46°N	55	3,300	63 ± 1	720 ± 90	---	5.1
	3480	40°N	55	2,200	61 ± 2	720 ± 90	---	3.9
	3481	35°N	55	1,640	47 ± 1	720 ± 90	---	---
	3482	30°N	55	1,510	42 ± 1	720 ± 90	---	---

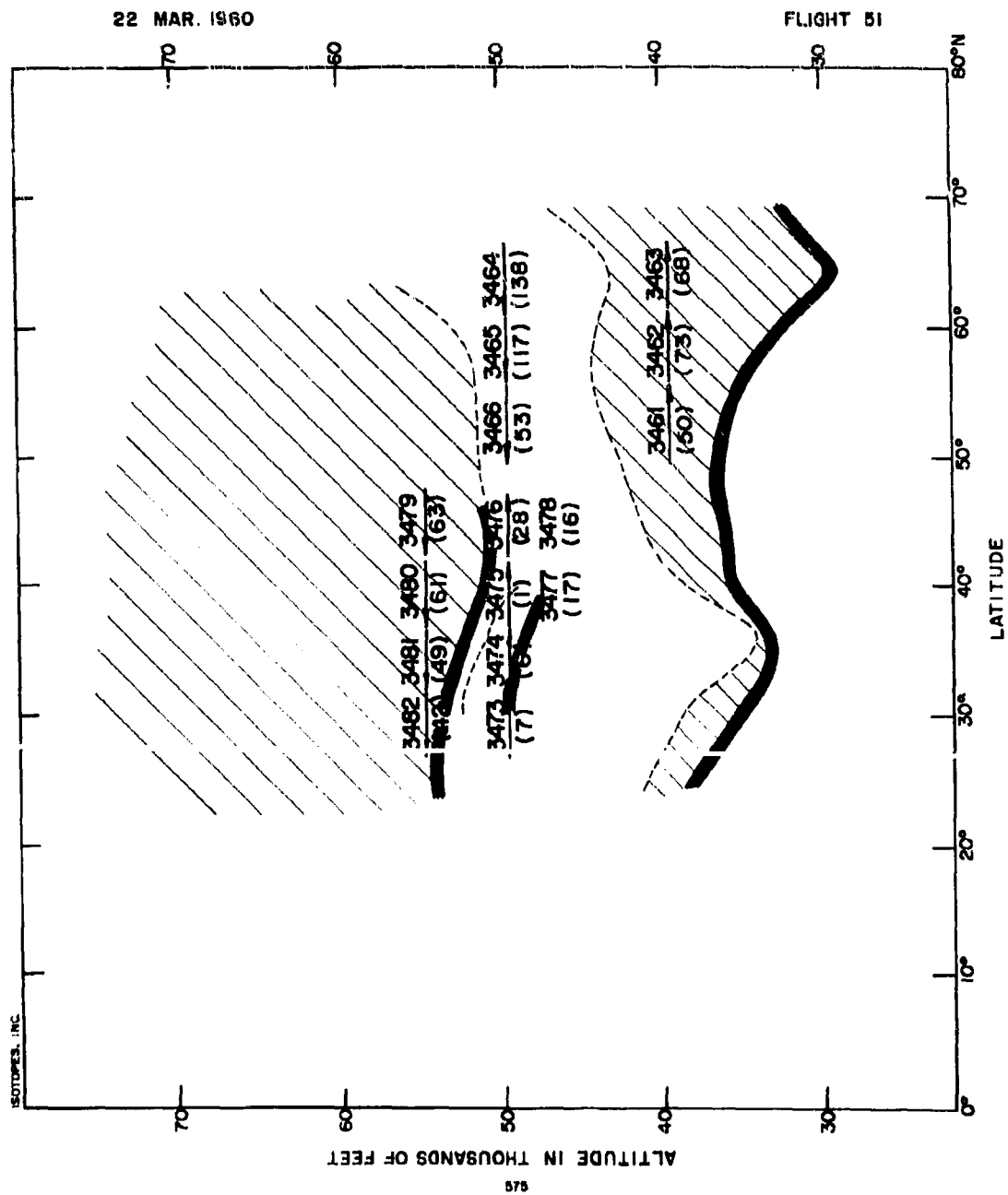


FIGURE 4.238 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
24 March 1960 Mission 52								
707	3467	54°N	63.6	12,100	172 ± 4	---	---	---
MN	3468	60°N	64.8	11,700	185 ± 4	---	---	11
	3469	63°N	65.1	14,500	224 ± 3	< 744	---	8.1
	3470	60°N	65.9	16,600	195 ± 4	< 744	---	---
	3471	56°N	66.5	13,700	205 ± 4	< 744	---	8.8
	3472	52°N	67.3	15,700	255 ± 1	< 744	---	8.5
718	3483	31°N	63.1	8,600	151 ± 2	1240 ± 130	---	6.9
LN	3484	37°N	64.2	10,600	180 ± 4	1240 ± 130	---	9.0
	3487	42°N	64.4	11,900	221 ± 4	992 ± 101	---	6.9
	3486	47°N	64.8	12,800	192 ± 18	---	---	9.0
	3488	47°N	64.8	15,100	249 ± 1	992 ± 101	---	9.1
	3489	47°N	66	16,200	212 ± 3	992 ± 101	---	8.0
	3490	42°N	67.2	12,600	248 ± 3	992 ± 142	---	7.3
	3491	36°N	67.7	14,600	242 ± 5	992 ± 142	---	7.8
	3492	30°N	68.5	12,300	204 ± 3	992 ± 142	---	9.4
705	3493	15°N	65.2	3,400	64 ± 2	---	---	6.8
LS	3497	18°N	65.6	5,100	109 ± 2	---	---	4.9
	3494	14°N	66.8	10,200	242 ± 4	2480 ± 170	---	5.1
	3495	19°N	67.1	6,700	141 ± 1	2480 ± 170	---	5.3
	3496	24°N	67.7	10,600	189 ± 3	2480 ± 170	---	7.1

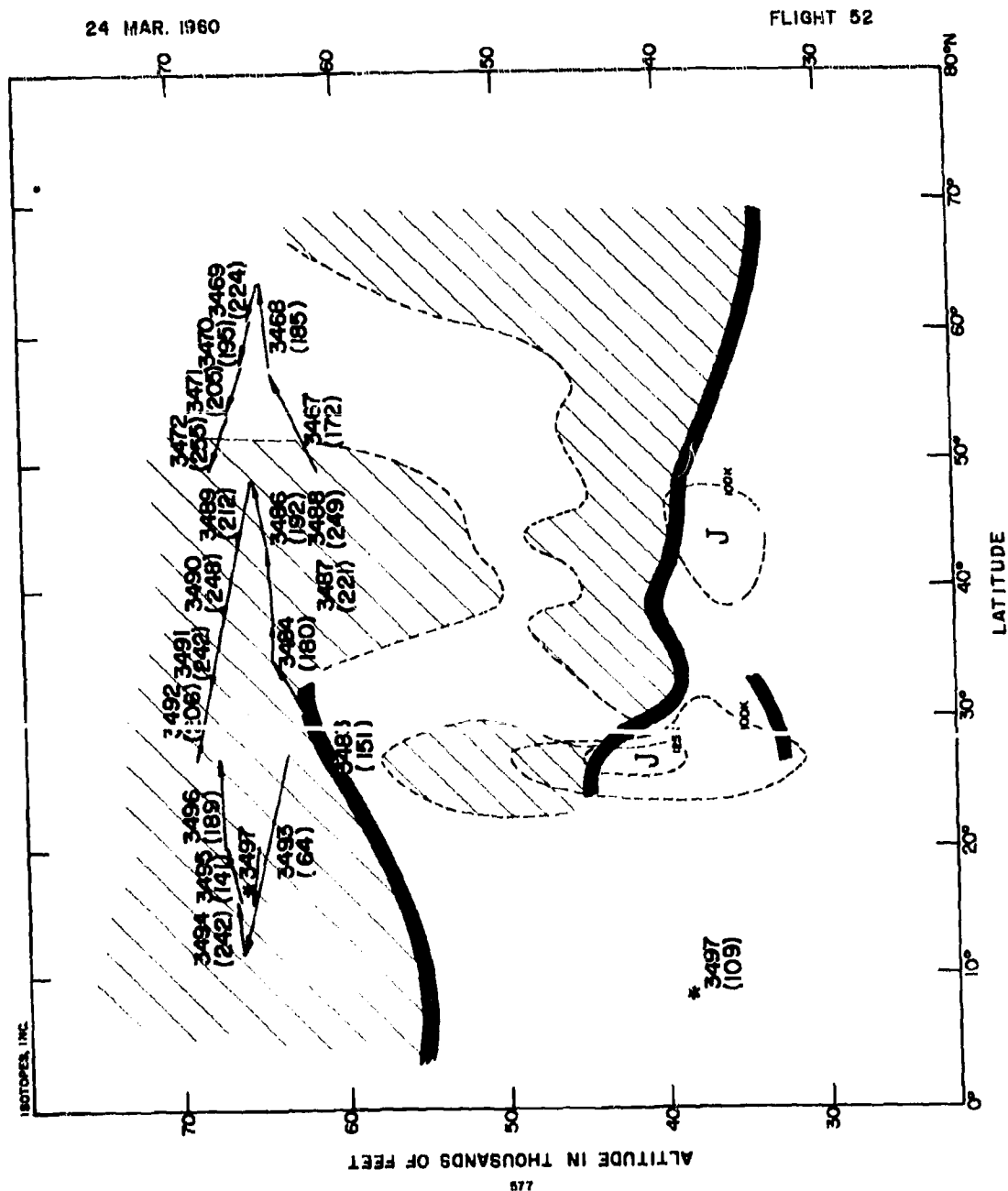


FIGURE 4.239 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
29 March 1960 Mission 53								
714	3498	44°N	40	2,100	48 ± 1	518 ± 34	---	6.2
MS	3502	41°N	40	Activation Analysis				
	3503	41°N	45	Activation Analysis				
	3501	44°N	45	3,700	62 ± 2	---	---	6.9
705	3504	30°N	60	4,900	86 ± 1	---	---	7.4
LN	3505	36°N	60	6,300	107 ± 2	1295 ± 89	---	7.2
	3506	42°N	60	7,000	132 ± 1	1295 ± 89	---	6.8
	3508	42°N	60	7,800	136 ± 1	---	---	7.5
	3507	47°N	60	9,600	142 ± 2	1295 ± 89	---	8.5
	3509	47°N	60	10,000	145 ± 2	---	---	7.8
	3510	47°N	65	11,400	218 ± 4	1295 ± 176	---	7.9
	3511	42°N	65	10,700	203 ± 4	1295 ± 176	---	7.3
	3512	36°N	65	9,900	184 ± 5	1295 ± 176	---	6.2
	3513	30°N	65	7,700	159 ± 3	---	---	7.1
718	3514	26°N	60	1,660	30 ± 2	777 ± 96	---	---
LS	3518	26°N	60	1,610	31 ± 1	---	---	3.2
	3515	22°N	60	1,470	24 ± 1	777 ± 96	---	---
	3516	18°N	60	1,400	35 ± 1	777 ± 96	---	---
	3517	14°N	60	2,300	49 ± 1	777 ± 96	---	6.6
	3519	14°N	65	2,800	63 ± 1	1813 ± 123	---	---
	3520	18°N	65	3,400	84 ± 2	1813 ± 123	---	5.9
	3521	22°N	65	4,600	94 ± 3	1813 ± 123	---	6.6

29 MAR. 1960

FLIGHT 53

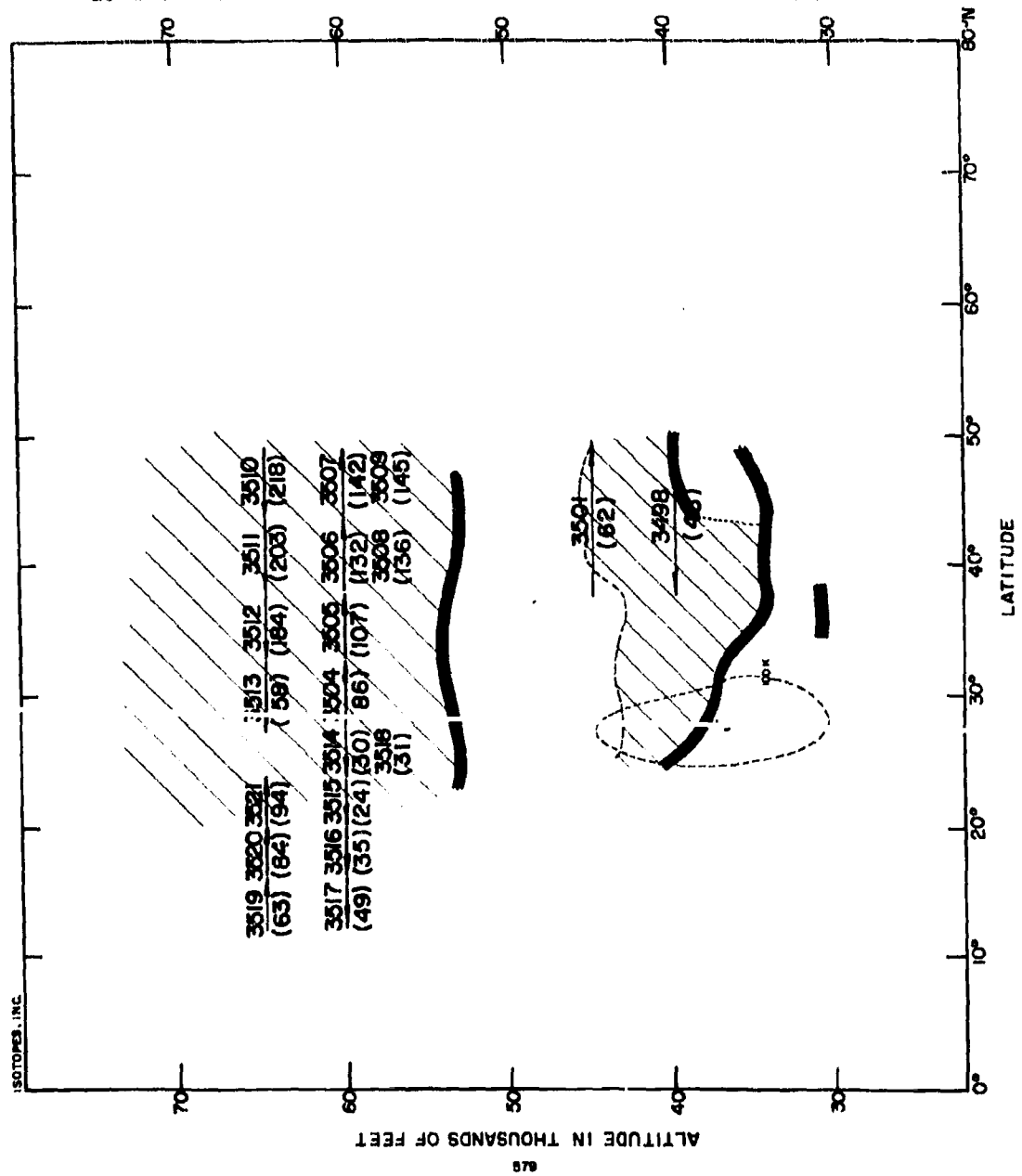


FIGURE 4.240 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>31 March 1960 Mission 54</u>								
707	3523	32°N	50	1,450	33 ± 1	780 ± 60	---	---
LN	3524	38°N	50	2,300	51 ± 1	780 ± 60	---	---
	3525	45°N	50	3,900	73 ± 1	780 ± 60	---	---
	3526	45°N	55	3,800	82 ± 1	780 ± 50	---	---
	3527	38°N	55	3,800	67 ± 1	780 ± 50	---	---

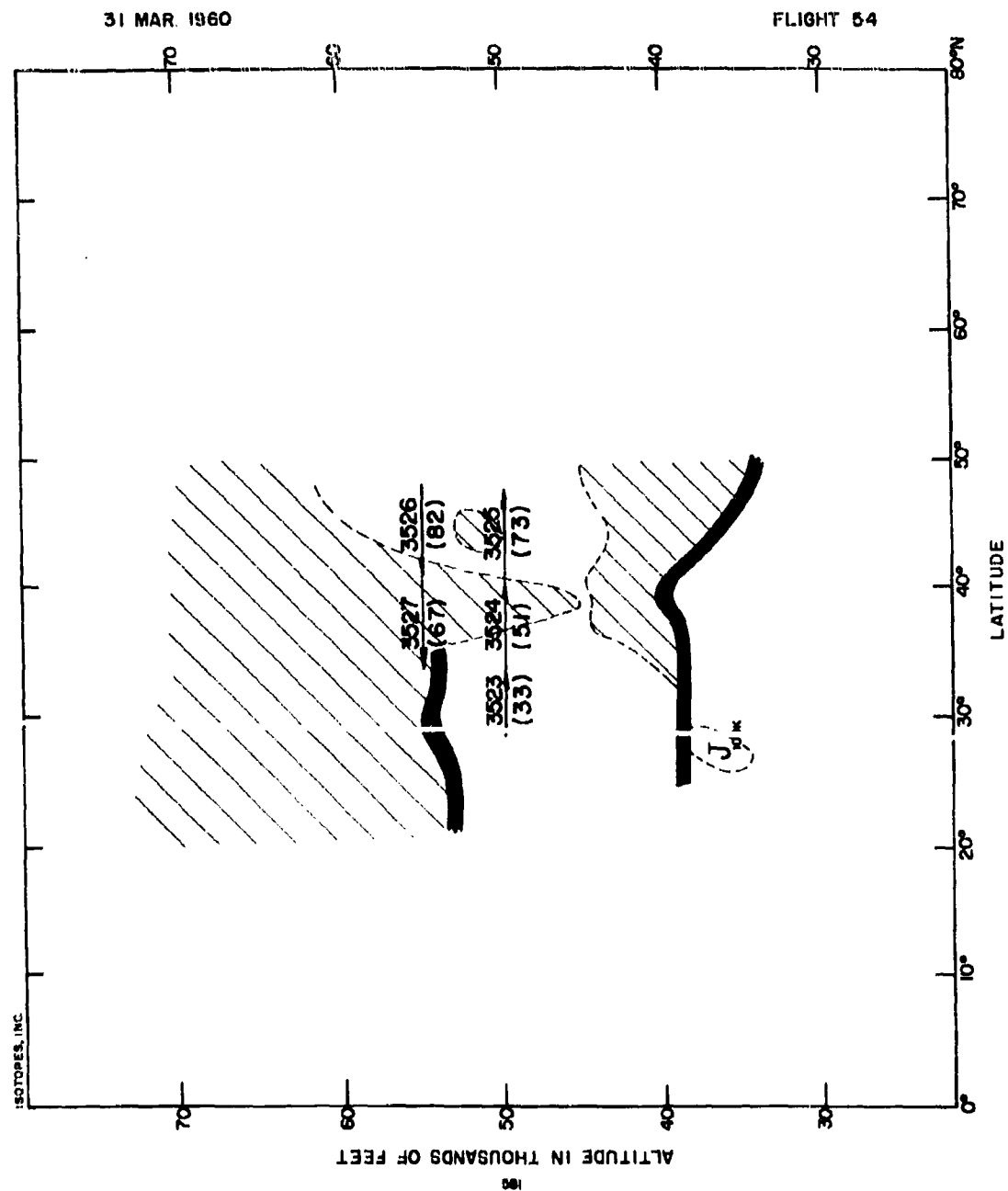


FIGURE 4.241 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
5 April 1960 Mission 55								
714	3529	53°N	55	9,200	158 $\pm$ 5	---	---	6.6
MN	3530	58°N	55	5,300	101 $\pm$ 1	---	---	6.4
	3531	64°N	55	8,400	155 $\pm$ 5	---	---	7.1
	3533	64°N	55	9,800	192 $\pm$ 1	---	---	6.0
	3532	69°N	55	9,200	168 $\pm$ 6	---	---	6.9
	3534	69°N	55	10,500	188 $\pm$ 3	---	---	7.6
	3535	69°N	60	14,600	256 $\pm$ 7	---	---	8.2
	3536	64°N	60	13,400	261 $\pm$ 1	---	---	---
	3537	59°N	60	13,300	223 $\pm$ 7	---	---	8.0
	3538	53°N	60	13,400	243 $\pm$ 1	---	---	---
717	3539	53°N	61.8	12,600	175 $\pm$ 1	550 $\pm$ 70	---	---
MN	3540	59°N	63.6	13,200	200 $\pm$ 1	550 $\pm$ 70	---	8.5
	3541	64°N	64.3	12,500	213 $\pm$ 1	550 $\pm$ 70	---	---
	3542	69°N	65	11,800	194 $\pm$ 3	550 $\pm$ 70	---	9.0
705	3543	12°N	60	1,830	36 $\pm$ 1	---	---	7.1
RC	3544	5°N	60	1,030	22 $\pm$ 1	---	---	---
	3545	1°N	60	940	20 $\pm$ 1	---	---	---
	3547	1°N	60	1,020	27 $\pm$ 1	---	---	---
	3546	5°S	60	810	19 $\pm$ 1	---	---	---
	3548	5°S	60	890	30 $\pm$ 1	---	---	---
	3549	5°S	65	3,100	78 $\pm$ 3	3030 $\pm$ 90	---	5.2
	3550	1°N	65	3,900	81 $\pm$ 2	3030 $\pm$ 90	---	---
	3551	6°N	65	4,000	106 $\pm$ 1	3030 $\pm$ 90	---	---
	3552	12°N	65	5,100	96 $\pm$ 7	3030 $\pm$ 90	---	8.6
718	3553	12°N	64.5	5,100	101 $\pm$ 1	2750 $\pm$ 130	---	6.2
RS	3554	6°N	65.2	3,200	71 $\pm$ 2	2750 $\pm$ 130	---	---
	3555	1°N	66	3,600	80 $\pm$ 1	2750 $\pm$ 130	---	---
	3557	1°N	66	5,300	101 $\pm$ 3	4400 $\pm$ 200	---	---
	3556	5°S	66.7	4,000	90 $\pm$ 2	2750 $\pm$ 130	---	5.2
	3558	5°S	66.7	4,500	87 $\pm$ 2	4400 $\pm$ 200	---	5.6
	3559	5°S	67.4	3,900	112 $\pm$ 1	4400 $\pm$ 200	---	6.4
	3560	1°N	67.7	5,200	122 $\pm$ 5	4130 $\pm$ 200	---	---
	3561	6°N	68.3	6,200	145 $\pm$ 2	4130 $\pm$ 200	---	---
	3562	12°N	68.6	8,200	162 $\pm$ 4	4130 $\pm$ 200	---	7.0

FLIGHT 55

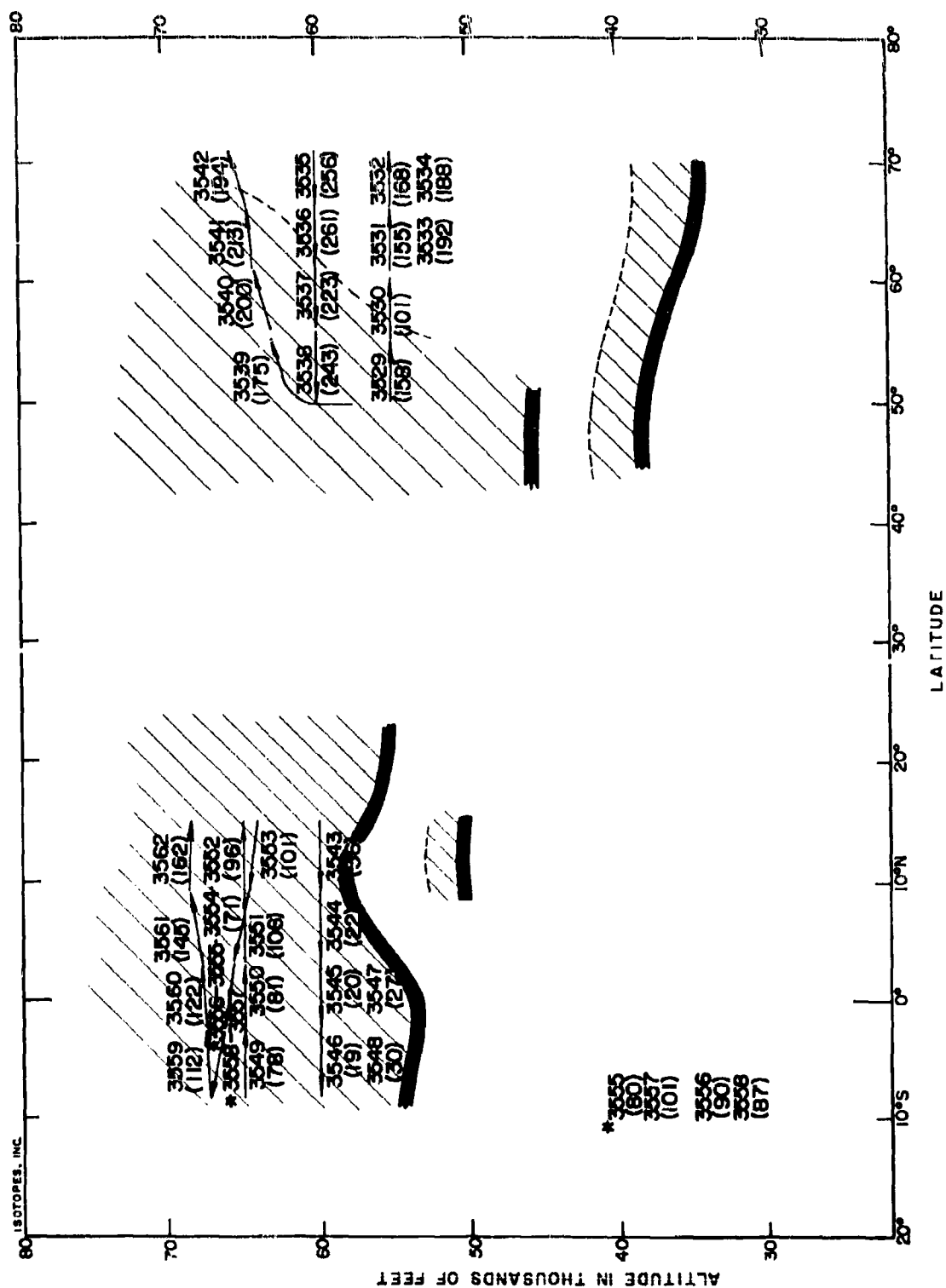


FIGURE 4.242 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
<u>7 April 1960 Mission 56</u>								
714	3585	52°N	45.5	3,700	66 ± 14	---	---	6.1
MN	3586	55°N	45	3,200	72 ± 1	---	---	---
	3587	58°N	45	2,700	47 ± 1	---	---	7.2
	3588	61°N	45	1,380	28 ± 1	558 ± 25	---	---
	3589	64°N	45	1,320	27 ± 1	558 ± 25	---	---
	3590	67°N	45	2,100	41 ± 2	558 ± 25	---	7.1
	3581	66°N	55	8,800	160 ± 1	1395 ± 81	---	7.0
	3582	62°N	55	8,300	149 ± 3	1395 ± 81	---	8.9
	3583	57°N	55	8,300	156 ± 3	1395 ± 81	---	---
	3584	53°N	55	8,900	149 ± 4	1395 ± 81	---	7.3
715	3591	55°N	60	10,300	175 ± 5	---	---	8.5
MN	3595	60°N	60	Activation Analysis				
	3592	65°N	60	11,200	175 ± 3	---	---	7.4
	3593	65°N	65	11,100	170 ± 1	---	---	8.1
	3594	60°N	65	Activation Analysis				
	3594	56°N	65	10,900	162 ± 2	---	---	9.6
705	3563	12°N	60	2,600	57 ± 1	---	---	6.2
RS	3564	6°N	60	1,280	29 ± 1	---	---	---
	3565	1°N	60	890	20 ± 1	---	---	---
	3566	4°S	60	800	20 ± 1	---	---	---
	3568	3°S	65	2,900	61 ± 1	2790 ± 180	---	---
	3569	3°N	65	2,900	83 ± 1	2790 ± 180	---	---
	3570	8°N	65	3,400	73 ± 1	2790 ± 180	---	---
	3571	14°N	65	5,000	102 ± 1	2790 ± 180	---	5.6
718	3572	12°N	64.5	4,500	90 ± 1	2790 ± 160	---	5.9
RS	3573	6°N	65.1	3,200	67 ± 1	2790 ± 160	---	---
	3574	1°N	65.7	3,200	72 ± 1	2790 ± 160	---	---
	3575	5°S	66.4	4,200	85 ± 1	2790 ± 160	---	4.7
	3577	5°S	66.8	4,400	95 ± 1	3630 ± 180	---	4.3
	3578	1°N	67.2	4,500	113 ± 1	3630 ± 180	---	4.4
	3579	6°N	68.1	5,000	113 ± 1	3630 ± 180	---	4.9
	3580	12°N	69	7,800	164 ± 1	3630 ± 180	---	4.9

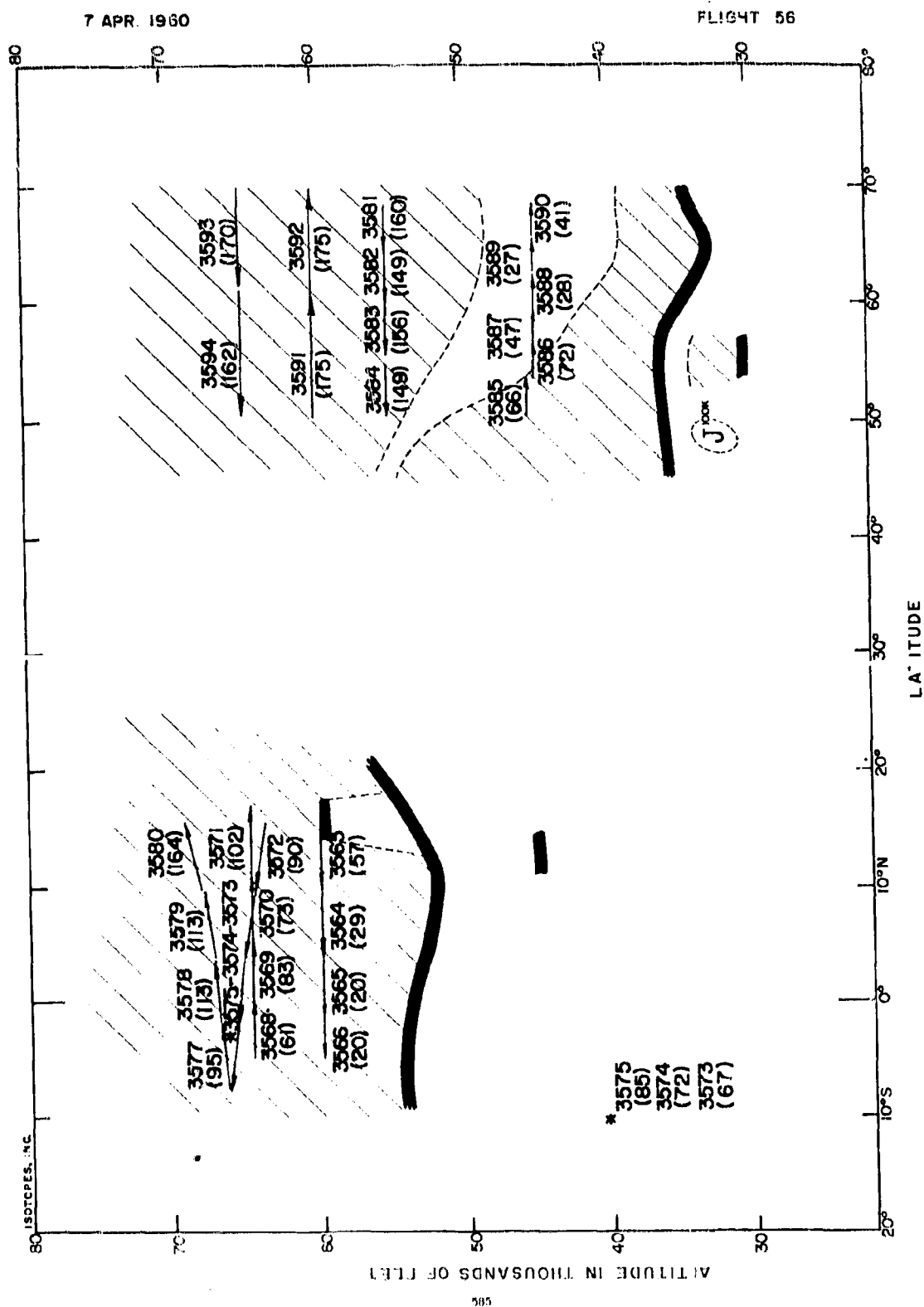


FIGURE 4.243 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
12 April 1960 Mission 57								
717	3605	52°N	39.9	2,600	58 ± 1	1160 ± 130	---	5.3
MN	3606	55°N	39.9	3,200	62 ± 1	1160 ± 130	---	5.2
	3607	58°N	40.5	3,200	68 ± 1	1160 ± 130	---	5.6
	3608	60°N	39.6	3,000	72 ± 1	1160 ± 100	---	5.3
	3609	63°N	39.8	3,100	57 ± 1	1160 ± 100	---	5.1
	3610	66°N	39.6	3,100	48 ± 1	1160 ± 100	---	6.5
	3601	65°N	40.1	2,900	50 ± 1	870 ± 90	---	6.1
	3602	61°N	40.7	2,200	40 ± 1	870 ± 90	---	6.2
	3603	57°N	41.1	2,500	51 ± 1	870 ± 90	---	5.5
	3604	53°N	40.3	1,350	30 ± 1	870 ± 90	---	---
715	3615	49°N	40	2,600	66 ± 1	870 ± 90	---	5.5
MS	3616	46°N	40	1,670	40 ± 1	870 ± 90	---	---
	3617	43°N	40	580	14 ± 1	870 ± 90	---	---
	3618	40°N	40.5	660	14 ± 1	< 580	---	---
	3619	37°N	40.5	1,490	27 ± 1	< 580	---	---
	3620	34°N	40.5	1,350	34 ± 1	< 580	---	---
	3611	35°N	50	2,900	72 ± 1	1160 ± 130	---	4.2
	3612	39°N	50	2,300	56 ± 1	1160 ± 130	---	4.9
	3613	44°N	50	1,930	56 ± 1	1160 ± 130	---	4.1
	3614	48°N	50	2,800	73 ± 1	1160 ± 130	---	4.3
	705	3621	30°N	50	330	8 ± 1	< 580	---
LN	3622	35°N	50	580	9 ± 1	< 580	---	---
	3623	40°N	50	840	15 ± 1	< 580	---	---
	3625	40°N	50	940	20 ± 1	---	---	---
	3624	45°N	50	1,560	33 ± 1	< 580	---	4.9
	3626	45°N	50	1,850	34 ± 1	---	---	5.4
	3627	45°N	55	4,600	122 ± 1	1160 ± 150	---	5.4
	3628	40°N	55	4,200	77 ± 2	1160 ± 150	---	5.6
	3629	35°N	55	3,000	63 ± 1	1160 ± 150	---	5.1
	3630	30°N	55	1,090	40 ± 1	---	---	5.7

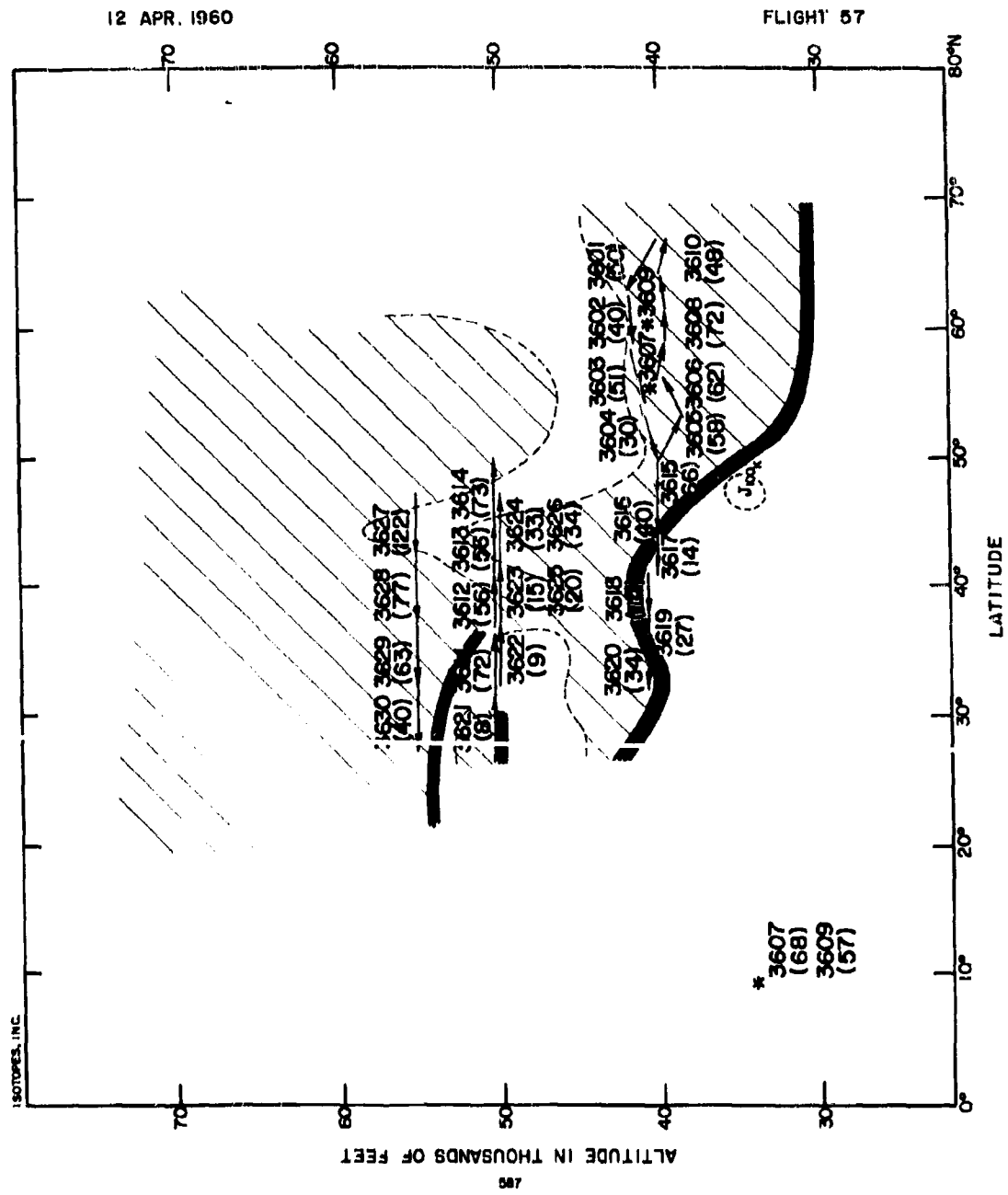


FIGURE 4.244 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
14 April 1960 Mission 58								
718	3631	30°N	63	9,500	175 $\pm$ 4	900 $\pm$ 70	---	6.3
LN	3632	36°N	64	10,400	202 $\pm$ 3	900 $\pm$ 70	---	7.2
	3633	42°N	64.8	12,200	191 $\pm$ 2	900 $\pm$ 70	---	8.1
	3635	42°N	64.8	12,200	226 $\pm$ 4	900 $\pm$ 100	---	7.4
	3634	47°N	65	12,500	206 $\pm$ 5	900 $\pm$ 70	---	8.3
	3636	47°N	65	12,800	226 $\pm$ 3	900 $\pm$ 100	---	7.9
	3637	47°N	65.5	14,300	245 $\pm$ 1	900 $\pm$ 100	---	8.4
	3638	42°N	66.5	11,100	213 $\pm$ 4	900 $\pm$ 100	---	8.0
	3639	36°N	67.3	12,400	209 $\pm$ 2	900 $\pm$ 100	---	8.1
	3640	30°N	68	13,600	191 $\pm$ 4	900 $\pm$ 100	---	8.2
705	3641	26°N	63.6	5,200	151 $\pm$ 8	1800 $\pm$ 100	---	4.5
LS	3642	22°N	64.7	6,100	161 $\pm$ 1	1800 $\pm$ 100	---	5.4
	3643	18°N	65.8	6,500	136 $\pm$ 4	1800 $\pm$ 100	---	6.0
	3645	18°N	65.8	6,600	137 $\pm$ 4	2700 $\pm$ 200	---	6.1
	3644	14°N	66.5	4,600	112 $\pm$ 1	1800 $\pm$ 100	---	6.0
	3646	14°N	66.5	5,900	108 $\pm$ 1	2700 $\pm$ 200	---	6.6
	3647	14°N	67	6,000	147 $\pm$ 1	2700 $\pm$ 200	---	5.8
	3648	18°N	67.3	8,100	167 $\pm$ 3	1800 $\pm$ 200	---	5.8
	3649	22°N	68.2	9,700	191 $\pm$ 1	1800 $\pm$ 200	---	6.7
	3650	26°N	68.3	10,600	217 $\pm$ 3	1800 $\pm$ 200	---	6.6

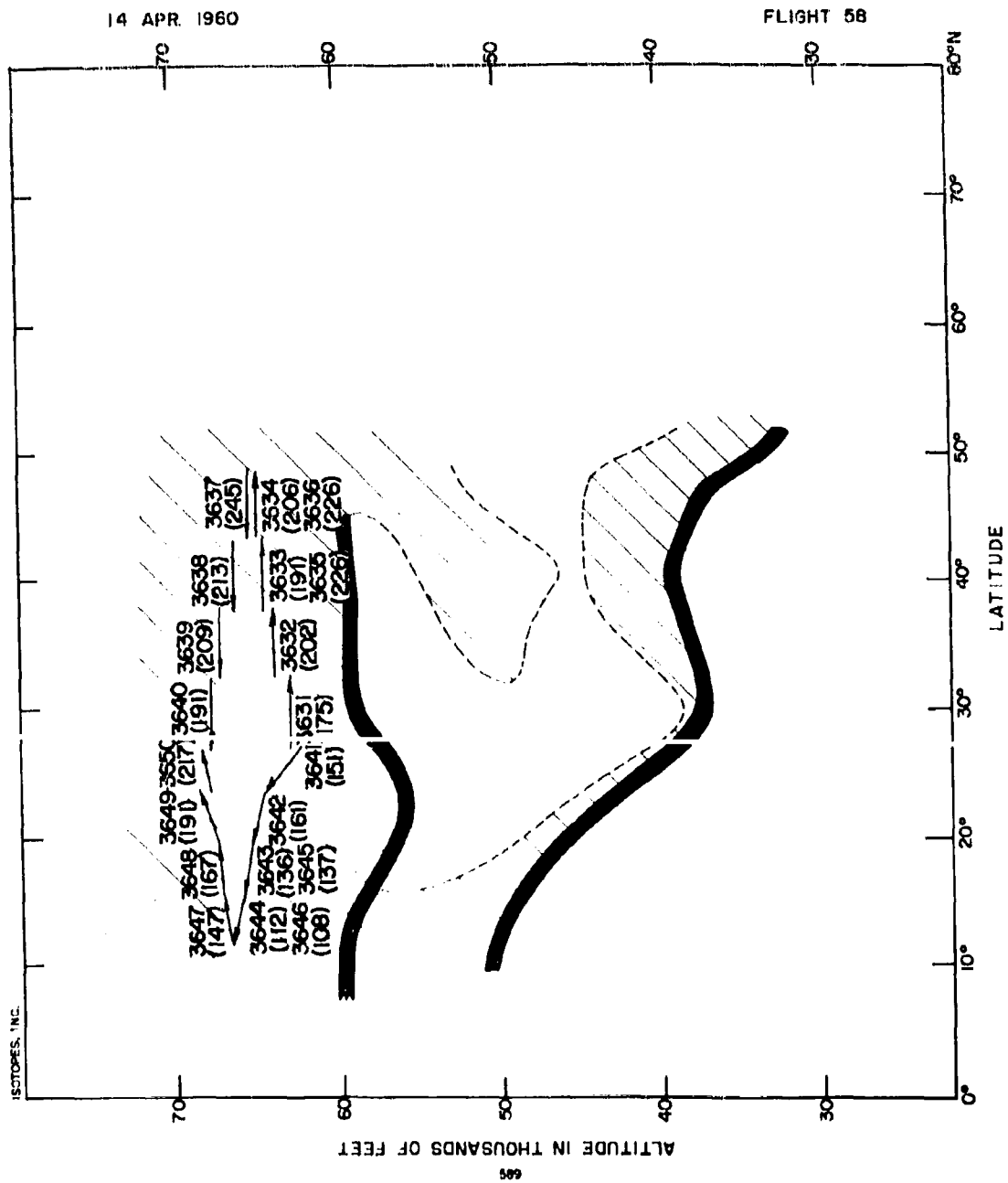


FIGURE 4.245 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
19 April 1960 Mission 59A								
714	3651	30°N	60	2,700	42 ± 2	620 ± 90	---	4.5
LN	3652	36°N	60	6,200	104 ± 1	620 ± 90	---	7.3
	3653	42°N	60	9,900	160 ± 2	620 ± 90	---	3.6
	3654	47°N	60	10,600	175 ± 2	620 ± 90	---	7.8
	3655	47°N	60	12,100	216 ± 1	---	---	6.8
	3656	47°N	65	12,000	230 ± 3	< 1240	---	7.4
	3657	42°N	65	11,100	194 ± 4	< 1240	---	7.2
	3658	36°N	65	12,600	214 ± 1	< 1240	---	6.6
	3659	30°N	65	8,500	170 ± 1	< 1240	---	6.8
705	3660	26°N	60	2,900	59 ± 2	1240 ± 170	---	5.4
LS	3661	22°N	60	2,500	47 ± 1	1240 ± 170	---	6.2
	3662	18°N	60	2,600	59 ± 2	1240 ± 170	---	5.6
	3663	14°N	60	3,000	55 ± 1	1240 ± 170	---	6.0

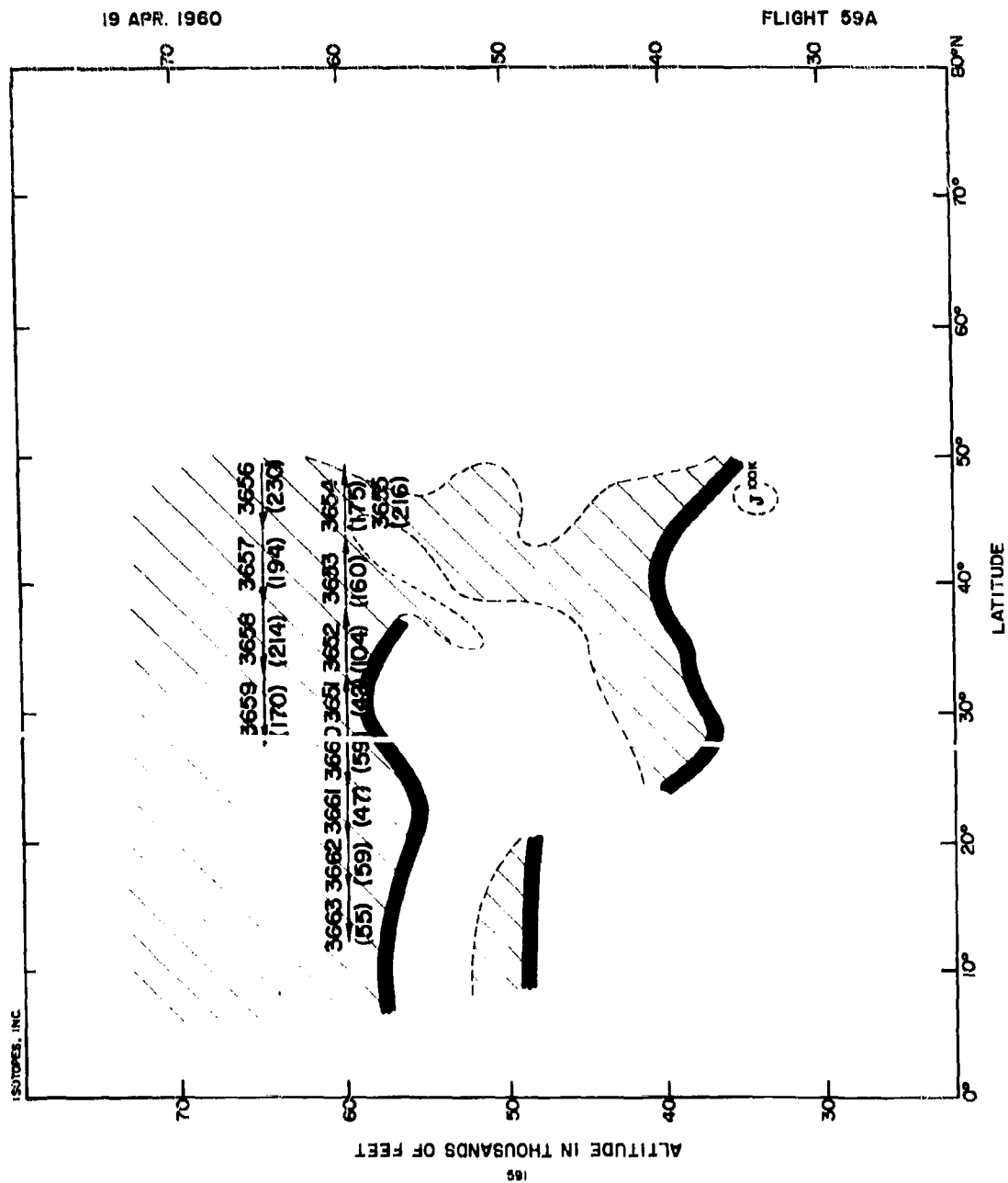


FIGURE 4.246 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				Sr^{89} Sr^{90}	Ce^{144} Sr^{90}
				Total Beta	Sr^{90}	W^{185} (Aug 58)			
20 April 1960 Mission 59B									
715	3664	52°N	45	3,100	70 $\pm$ 1	1260 $\pm$ 140	---		6.1
MN	3665	55°N	45	3,000	79 $\pm$ 1	1260 $\pm$ 140	---		---
	3666	58°N	45	3,300	76 $\pm$ 2	1260 $\pm$ 140	---		---
	3667	61°N	45	3,400	72 $\pm$ 1	1260 $\pm$ 120	---		5.3
	3668	64°N	45	3,500	82 $\pm$ 2	1260 $\pm$ 120	---		---
	3669	67°N	45	3,500	88 $\pm$ 2	1260 $\pm$ 120	---		5.9
717	3670	53°N	60	10,000	159 $\pm$ 1	< 945	---		6.6
MN	3671	59°N	60	7,500	141 $\pm$ 1	< 945	---		---
	3672	64°N	60	9,300	160 $\pm$ 1	< 945	---		6.9
	3674	64°N	60	13,000	175 $\pm$ 3	---	---		7.0
	3673	69°N	60	9,000	165 $\pm$ 1	< 945	---		7.3
	3675	69°N	60	10,400	---	---	---		---
	3676	69°N	63.2	13,700	258 $\pm$ 1	< 945	---		6.4
	3677	64°N	64.6	10,700	193 $\pm$ 1	< 945	---		7.7
	3678	60°N	65	9,800	164 $\pm$ 1	< 945	---		---
	3679	53°N	65.2	9,500	170 $\pm$ 1	< 945	---		7.6

20 APR. 1960

FLIGHT 59B

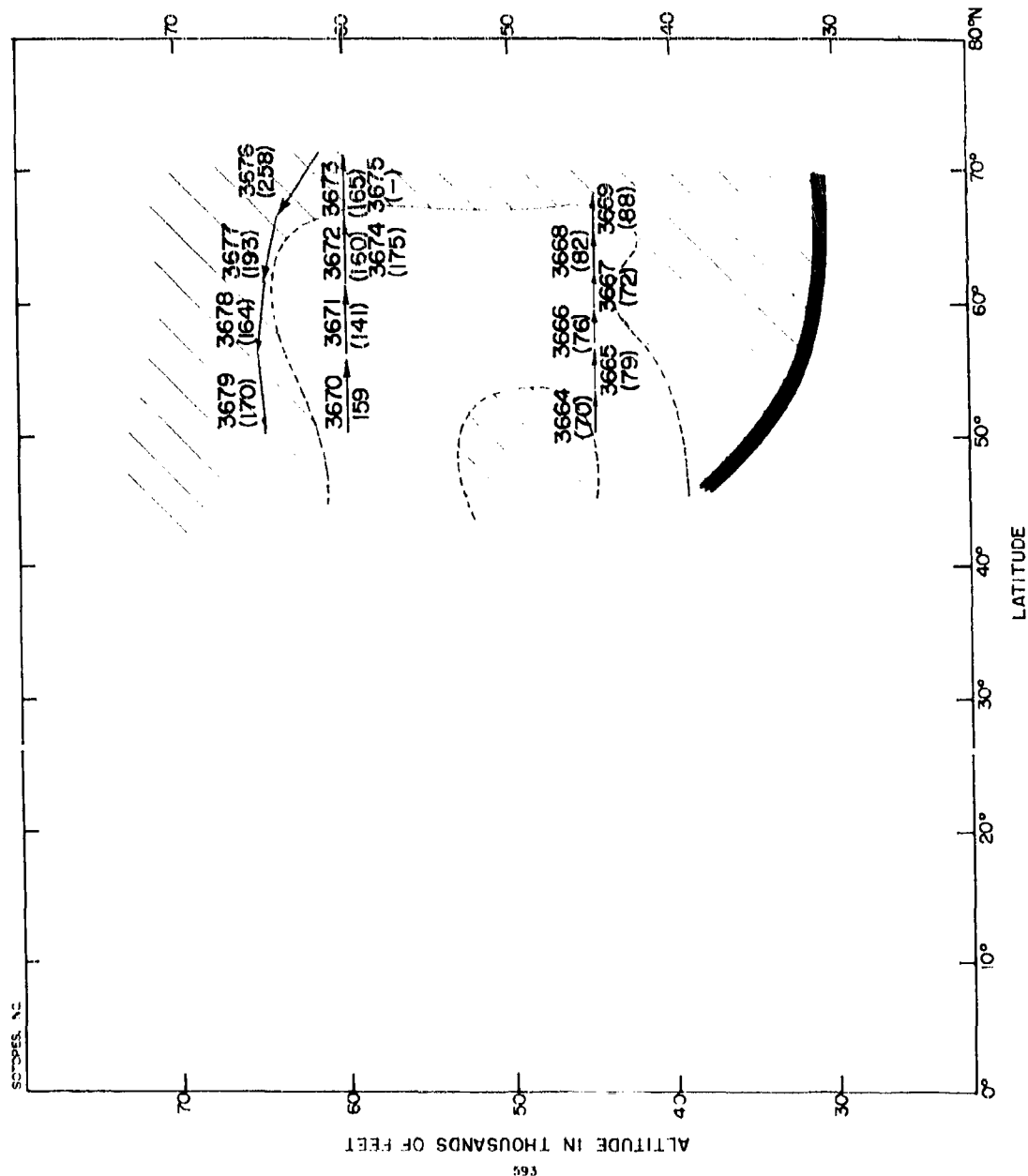


FIGURE 4.247 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASP	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
21 April 1960 Mission 60								
705	3684	29°N	40	390	8 ± 1	< 320	---	---
LN	3685	32°N	40	< 400	4 ± 1	< 320	---	---
	3686	35°N	40	< 300	3 ± 1	< 320	---	---
	3687	37°N	40	< 200	≤ 1.7	< 320	---	---
	3688	40°N	40	420	9 ± 1	< 320	---	---
	3689	43°N	40	570	12 ± 1	< 320	---	5.8
	3680	42°N	45	850	20 ± 1	< 320	---	6.3
	3681	38°N	45	910	23 ± 1	< 320	---	---
	3682	34°N	45	1,130	23 ± 1	< 320	---	5.5
	3683	30°N	45	360	6 ± 1	< 320	---	---
714	3690	30°N	50	1,510	33 ± 1	640 ± 70	---	5.4
LN	3691	35°N	50	3,200	65 ± 2	640 ± 70	---	6.0
	3692	39°N	50	3,700	88 ± 2	640 ± 70	---	5.3
	3694	39°N	50	4,000	74 ± 1	---	---	6.6
	3693	44°N	50	3,700	70 ± 2	640 ± 70	---	5.6
	3695	44°N	50	3,400	76 ± 1	---	---	5.9
	3696	46°N	55	3,700	86 ± 2	< 960	---	5.9
	3697	40°N	55	3,200	61 ± 1	< 960	---	5.6
	3698	35°N	55	3,100	76 ± 2	< 960	---	5.6
	3699	30°N	55	980	25 ± 1	---	---	---

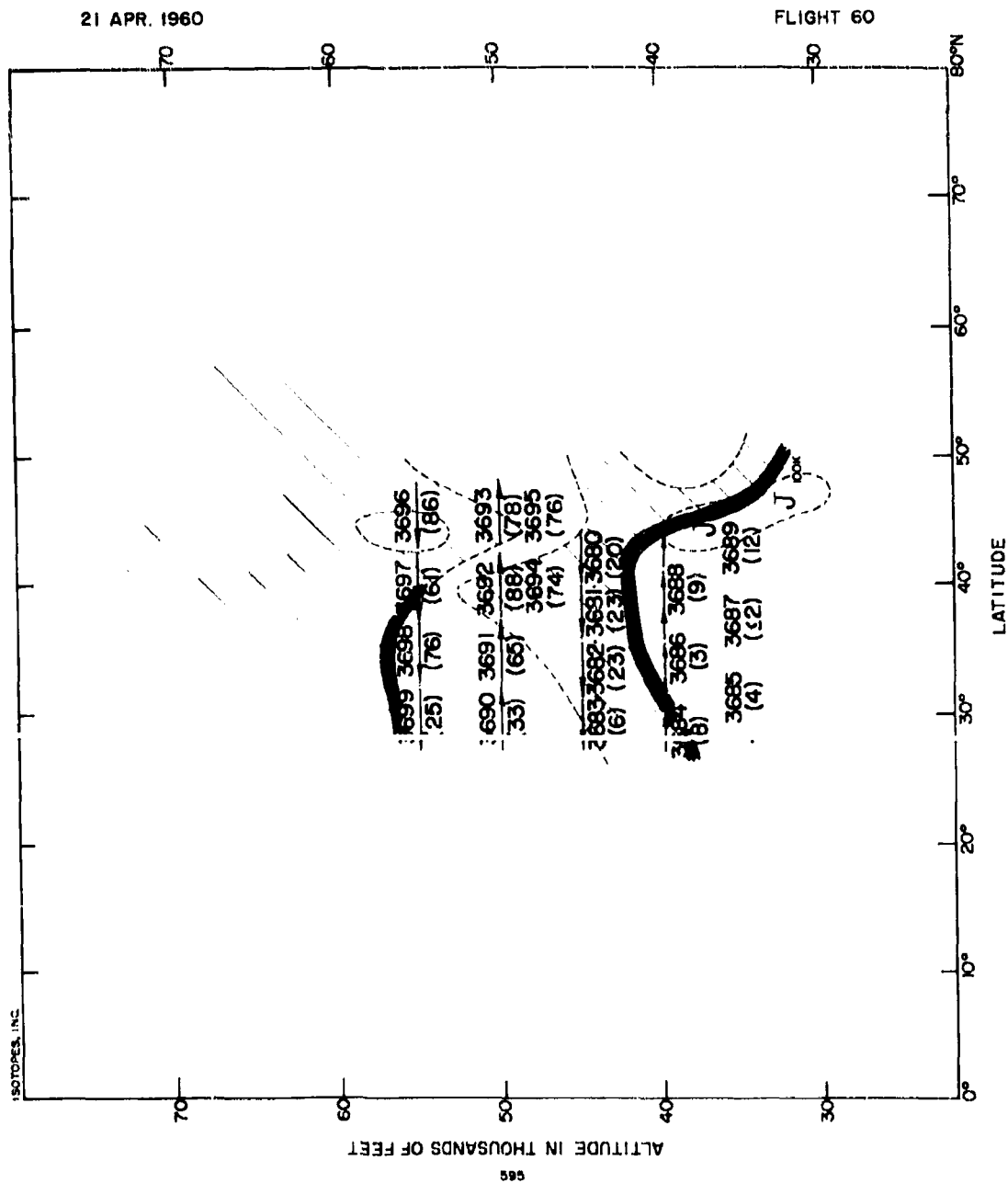


FIGURE 4.248 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	
<u>26 April 1960 Mission 61A</u>								
715	3704	30°N	63.4	6,400	142 ± 1	---	---	6.9
LN	3701	36°N	65.1	8,200	173 ± 1	---	---	6.4
	3702	42°N	65.9	8,600	170 ± 2	---	---	6.0
	3705	47°N	66.6	13,900	229 ± 2	---	---	6.9
	3706	47°N	67	12,800	209 ± 1	< 1002	---	8.3
	3707	42°N	67.7	12,700	191 ± 2	< 1002	---	7.7
	3708	36°N	68.4	11,700	198 ± 4	< 1002	---	7.5
	3709	30°N	69.1	12,200	191 ± 2	< 1002	---	7.8
714	3710	26°N	63.8	6,900	141 ± 2	< 1670	---	6.4
LS	3711	22°N	65	9,300	156 ± 4	< 1670	---	---
	3712	18°N	65.8	9,400	173 ± 1	< 1670	---	7.6
	3714	18°N	65.8	9,800	201 ± 1	< 1336	---	6.6
	3715	16°N	66.9	9,300	189 ± 1	< 1336	---	6.4
	3716	18°N	67.8	12,300	232 ± 1	< 2340	---	6.5
	3717	22°N	68.2	11,600	176 ± 1	< 2340	---	7.0
	3718	26°N	68.8	10,300	---	< 2340	---	---

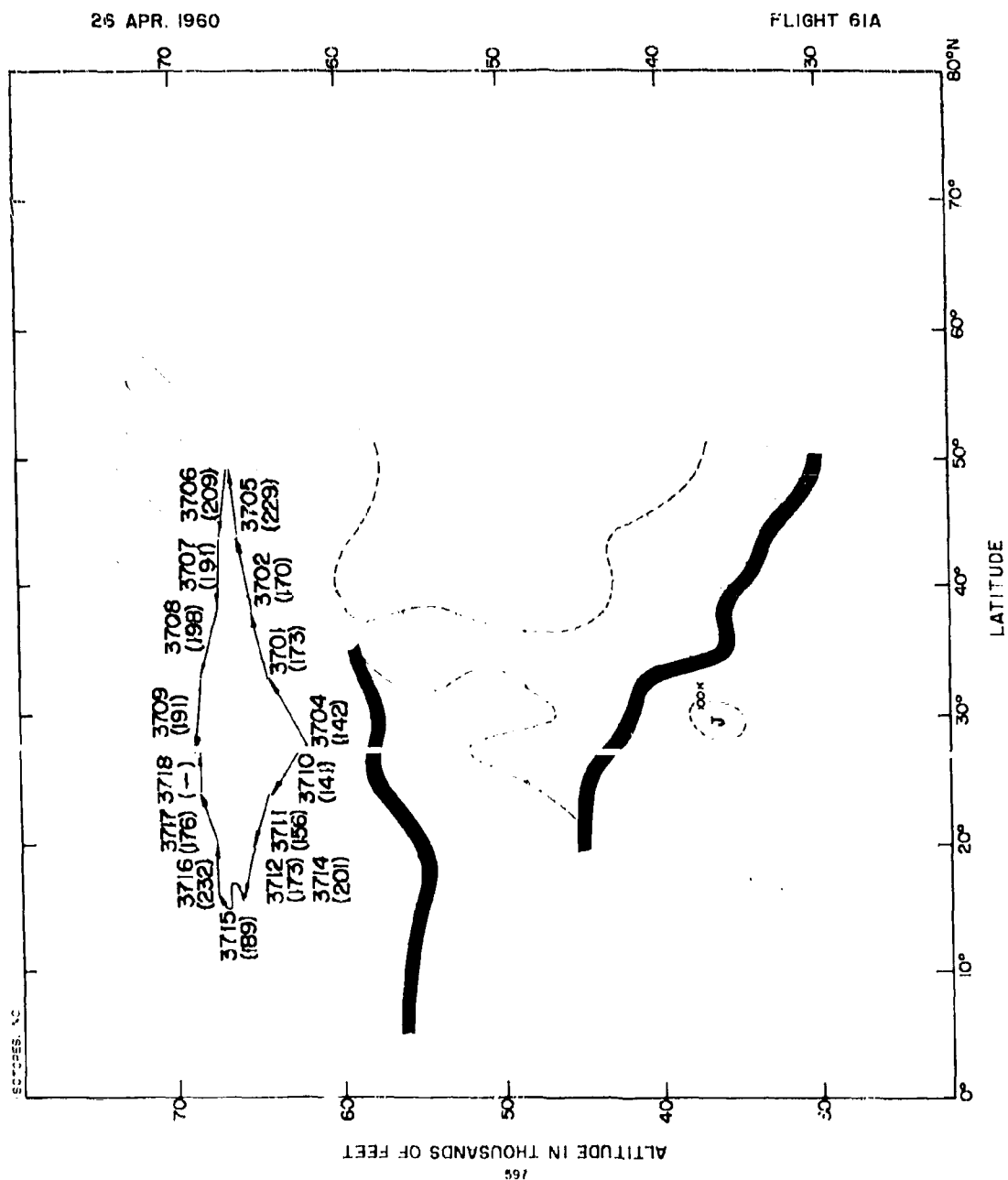


FIGURE 4.249 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
27 April 1960 Mission 61B								
718	3737	53°N	55	5,300	48 ± 1	10390 ± 210	---	7.4
MN	3738	59°N	55	4,900	49 ± 1	10390 ± 210	---	7.0
	3739	64°N	55.5	5,500	100 ± 2	10390 ± 210	---	7.5
	3741	64°N	55.5	---	---	---	---	6.5
	3742	69°N	55.5	6,300	114 ± 4	---	---	7.2
	3743	69°N	60	9,200	187 ± 2	8040 ± 160	---	7.2
	3744	64°N	60	8,700	180 ± 6	8040 ± 160	---	6.8
	3745	59°N	60	11,600	203 ± 4	8040 ± 160	---	6.8
	3746	53°N	60.5	9,800	203 ± 7	8040 ± 160	---	10
717	3733	53°N	60.9	7,500	144 ± 1	≤ 670	---	8.0
MN	3734	59°N	63.5	10,400	118 ± 1	≤ 670	---	11
	3735	64°N	64.6	9,600	148 ± 1	≤ 670	---	9.1
	3736	69°N	65.4	10,700	164 ± 1	≤ 670	---	7.7

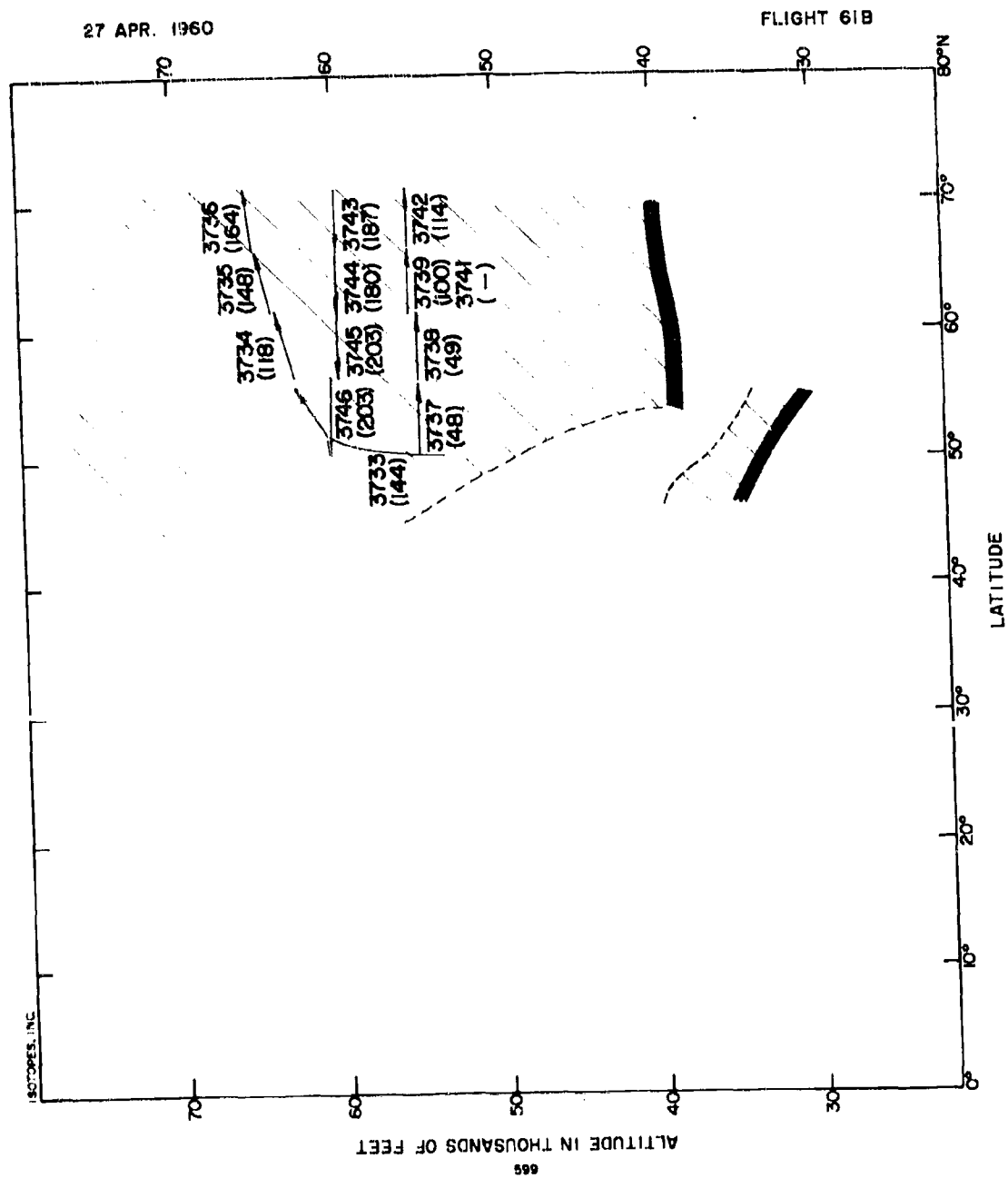


FIGURE 4.250 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>28 April 1960 Mission 62A</u>								
716	3719	30°N	60	3,900	76 ± 3	3740 ± 710	---	5.5
LN	3720	35°N	60	5,100	103 ± 3	3740 ± 710	---	5.0
	3721	40°N	60	7,300	124 ± 1	3740 ± 710	---	6.8
	3723	42°N	60	7,900	---	---	---	---
	3722	45°N	60	7,700	142 ± 2	3740 ± 710	---	6.3
714	3724	26°N	60	2,900	51 ± 1	---	---	---
LS	3725	23°N	60	1,040	23 ± 1	---	---	---
	3726	19°N	60	1,060	23 ± 1	---	---	---
	3728	19°N	60	1,170	27 ± 1	---	---	---
	3729	15°N	60	1,160	22 ± 1	---	---	---
	3730	17°N	65	8,300	196 ± 2	< 1700	---	5.8
	3731	23°N	65	9,100	201 ± 1	< 1700	---	6.1
	3732	26°N	65	9,300	203 ± 3	< 1700	---	6.8

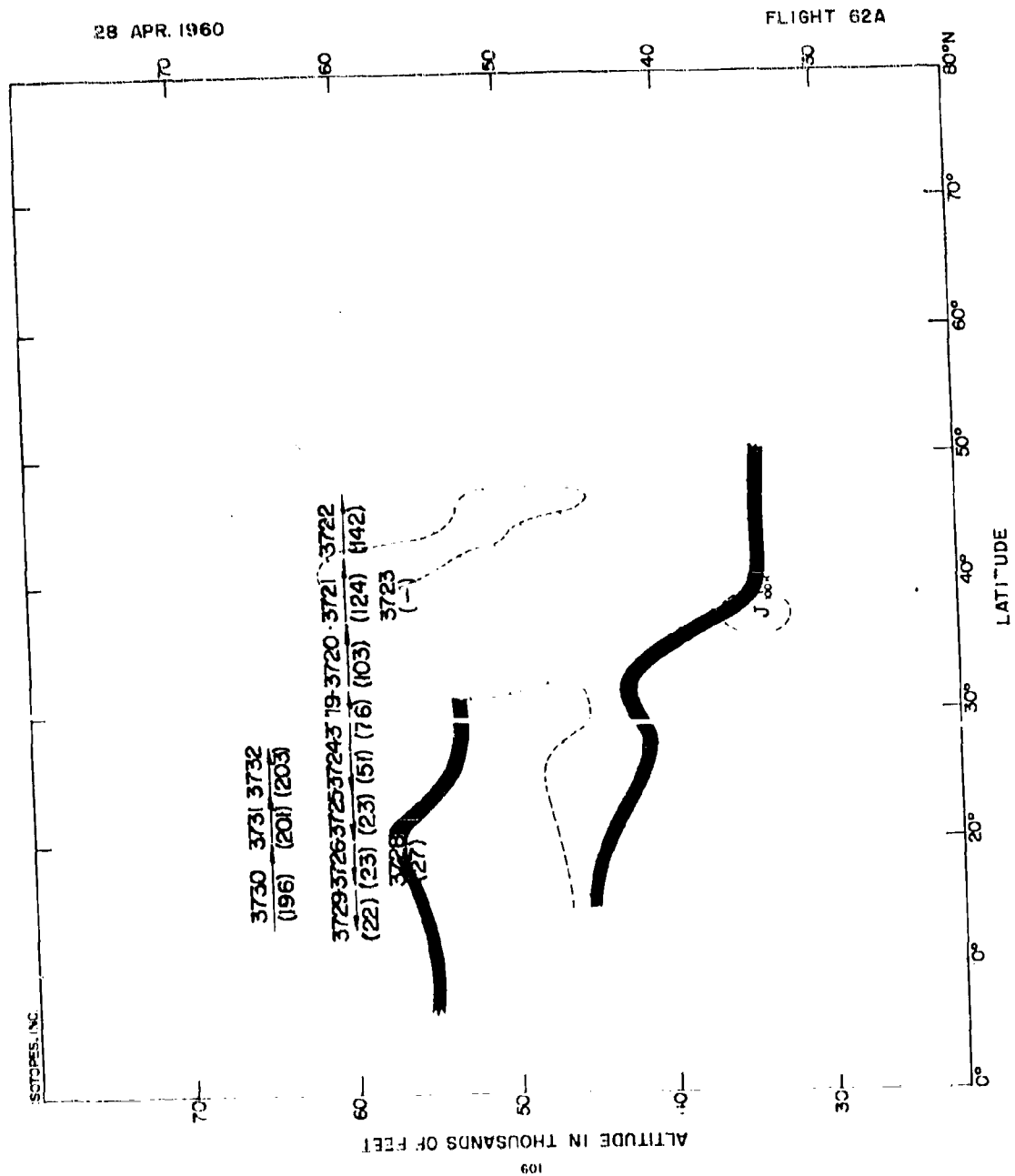


FIGURE 4.251 FLIGHT CROSS SECTION

Table 4.3 (continued)

dpm/1000 SCF								
AC	HASF	Lat.	Alt.	Total	Sr ⁹⁰	W ¹⁸⁵	Sr ⁸⁹	Ce ¹⁴⁴
No.	No.			Beta		(Aug 58)	Sr ⁹⁰	Sr ⁹⁰
<u>30 April 1960 Mission 62B</u>								
718	3754	52°N	45	5,900	103 + 1	---	---	6.7
MN	3756	48°N	45	3,500	67 + 1	---	---	6.4
	3757	48°N	50	6,700	113 + 1	---	---	2.6
	3753	48°N	64	11,800	186 + 11	---	---	8.1
717	3747	53°N	59.5	13,900	139 + 2	682	---	8.7
MN	3748	61°N	60	21,000	181 + 6	682	---	13.6
	3749	62°N	65	20,000	201 + 1	682	---	12.0
	3750	54°N	65	14,300	178 + 7	682	---	9.7
	3751	48°N	60	9,200	183 + 3	---	---	7.5

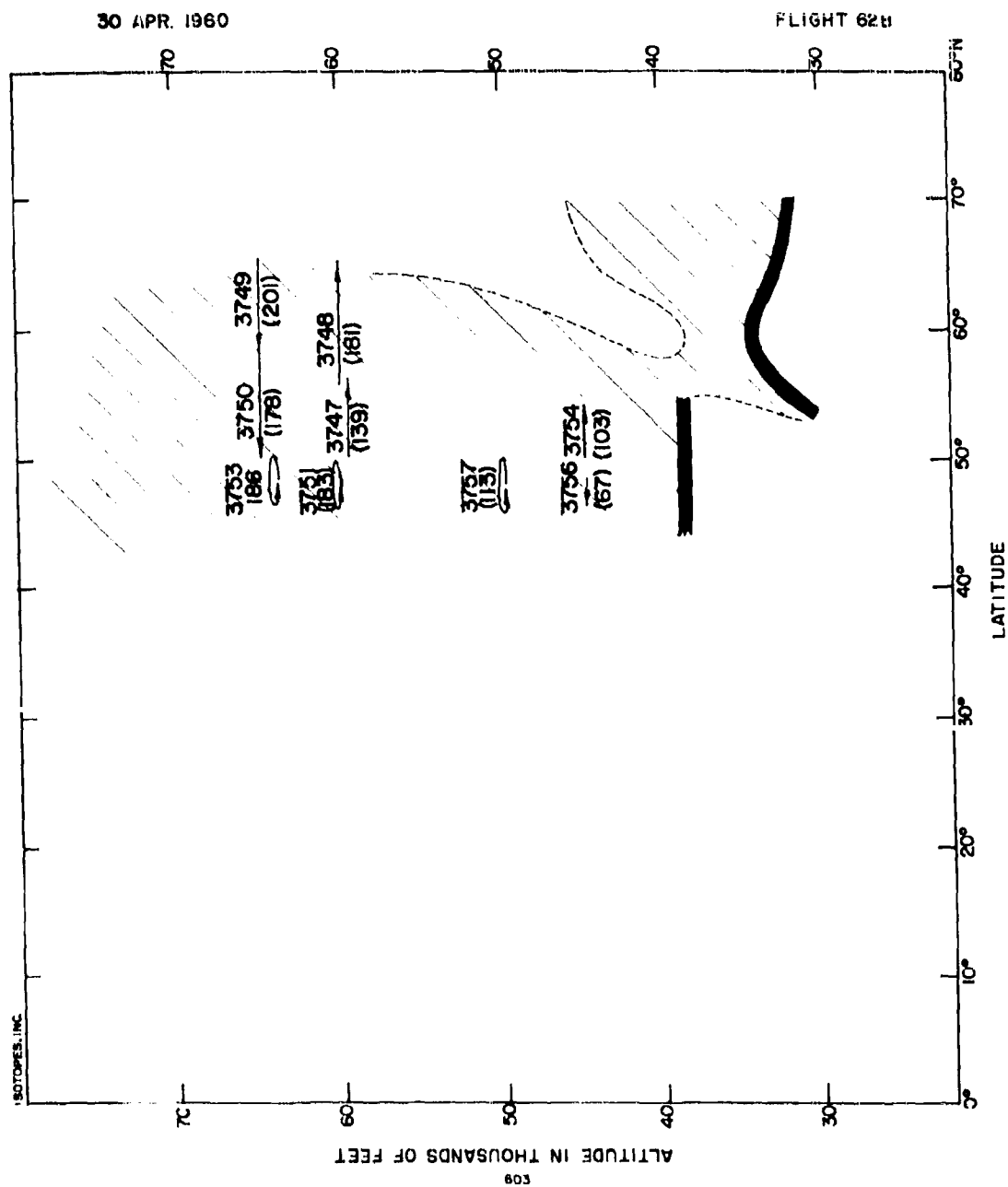


FIGURE 4.252 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
3 May 1960 Mission 63									
717 MN	3762	52°N	40	2,500	71 ± 1	1074 ± 61	---	5.3	
	3763	55°N	40	2,300	62 ± 1	1074 ± 61	---	5.4	
	3764	57°N	40	3,100	76 ± 1	1074 ± 61	---	5.1	
	3765	60°N	40	2,300	73 ± 2	716 ± 47	---	4.9	
	3766	63°N	40	2,100	56 ± 1	716 ± 47	---	5.7	
	3767	66°N	40	1,730	37 ± 1	716 ± 47	---	6.0	
	3758	65°N	49.5	3,900	73 ± 1	2150 ± 120	---	6.9	
	3759	61°N	49.5	6,200	103 ± 2	2150 ± 120	---	6.8	
	3760	57°N	50	7,800	158 ± 1	2150 ± 120	---	7.4	
	3761	53°N	50	6,500	111 ± 4	2150 ± 120	---	7.1	
718 MS	3772	49°N	39.5	2,800	70 ± 1	1074 ± 76	---	5.3	
	3773	47°N	40	2,700	60 ± 1	1074 ± 76	---	5.9	
	3774	43°N	40	3,000	66 ± 1	1074 ± 76	---	---	
	3775	40°N	40	2,400	60 ± 1	716 ± 59	---	---	
	3776	37°N	40	1,810	35 ± 2	716 ± 59	---	---	
	3777	34°N	40.5	2,400	50 ± 2	716 ± 59	---	---	
	3768	35°N	45	1,810	41 ± 1	1074 ± 93	---	5.9	
	3769	39°N	45	1,990	37 ± 1	1074 ± 93	---	6.9	
	3770	44°N	44.5	2,300	54 ± 1	---	---	5.9	
	3771	48°N	44	2,500	49 ± 1	1074 ± 93	---	6.2	

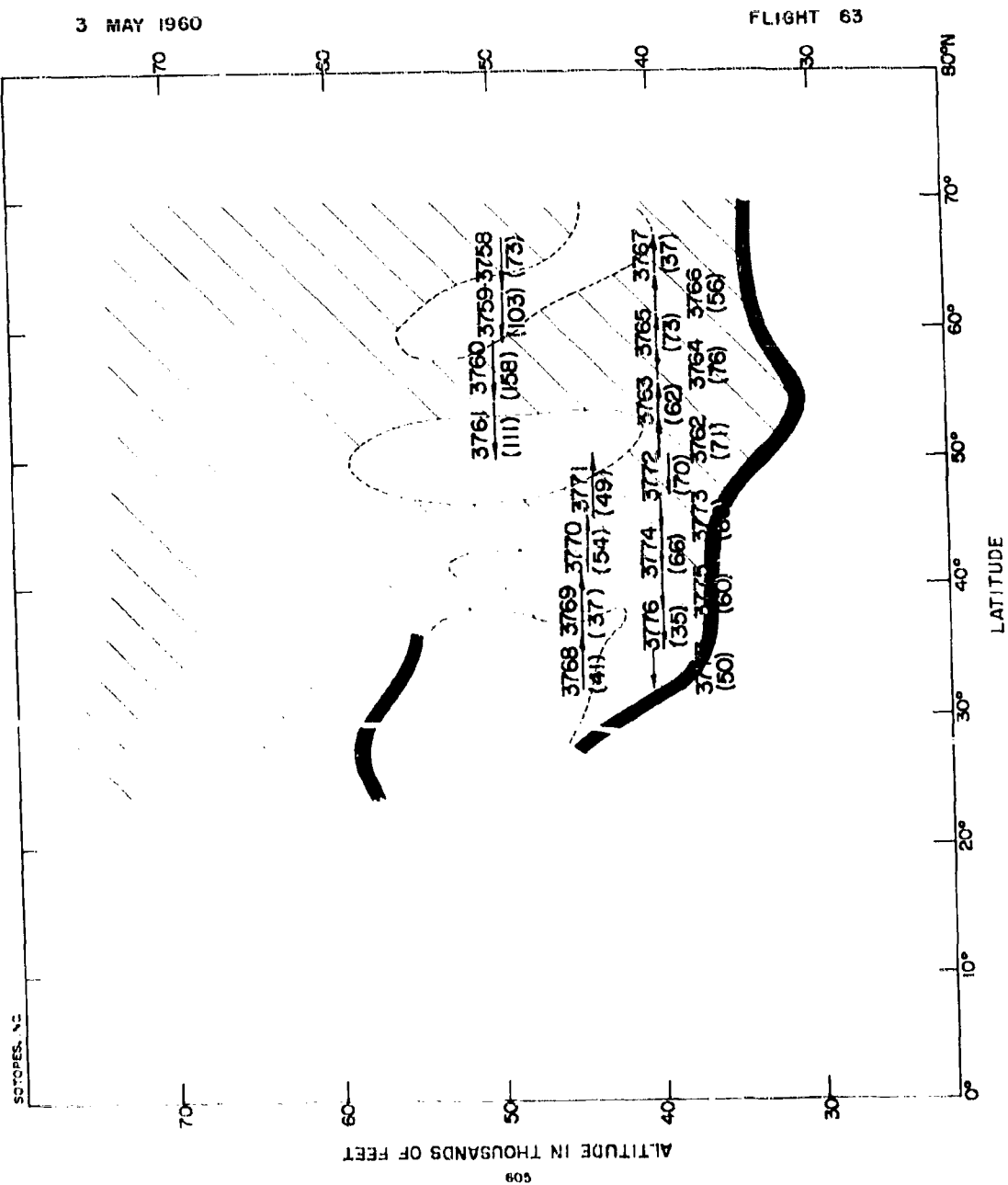


FIGURE 4.253 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>5 May 1960 Mission 64A</u>								
715 RS	3778	12°N	60	2,500	55 ± 1	---	---	---
714	3780	12°N	64.5	7,300	143 ± 1	---	---	6.3
RS	3781	6°N	65.4	5,300	125 ± 2	---	---	4.9
	3784	1°N	66.5	3,600	87 ± 3	6210 ± 300	---	---
	3785	5°S	67.5	4,200	82 ± 2	6210 ± 300	---	4.8
	3786	5°S	68.3	4,200	97 ± 1	6210 ± 300	---	4.3
	3787	1°N	68.9	5,200	100 ± 1	---	---	---
	3788	6°N	69.7	6,900	147 ± 1	---	---	5.3
	3789	12°N	70.6	8,000	178 ± 1	---	---	5.4

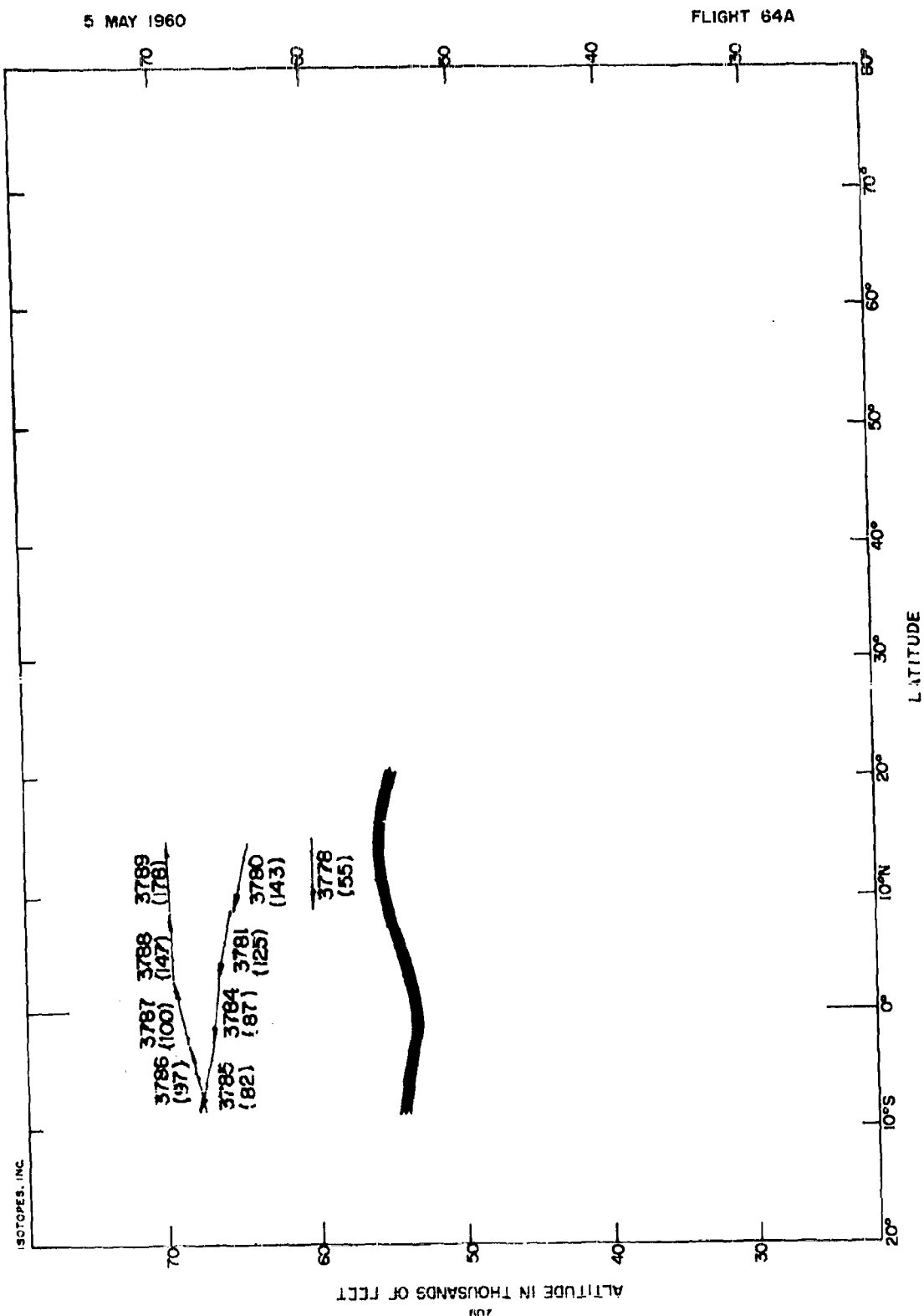


FIGURE 4.254 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
6 May 1960 Mission 64B								
717	3790	48°N	30	790	24 ± 1	---	---	---
MO	3791	48°N	40	1,970	49 ± 2	---	---	5.4
718	3796	48°N	45	2,100	50 ± 1	---	---	---
MO	3792	47°N	50	2,200	52 ± 1	---	---	---
	3797	47°N	50	2,900	69 ± 1	---	---	---
	3798	47°N	55	7,200	111 ± 2	1476 ± 99	---	6.9
	3793	47°N	57	6,800	115 ± 4	---	---	7.5
	3799	47°N	60	11,000	174 ± 1	1476 ± 99	---	6.8
	3794	48°N	64	9,900	197 ± 1	738 ± 110	---	7.2
	3800	48°N	64	10,300	208 ± 7	≤ 738	---	6.1
	3795	48°N	67.7	10,700	218 ± 1	738 ± 110	---	7.5
	3801	48°N	67.7	11,000	222 ± 2	< 738	---	6.6

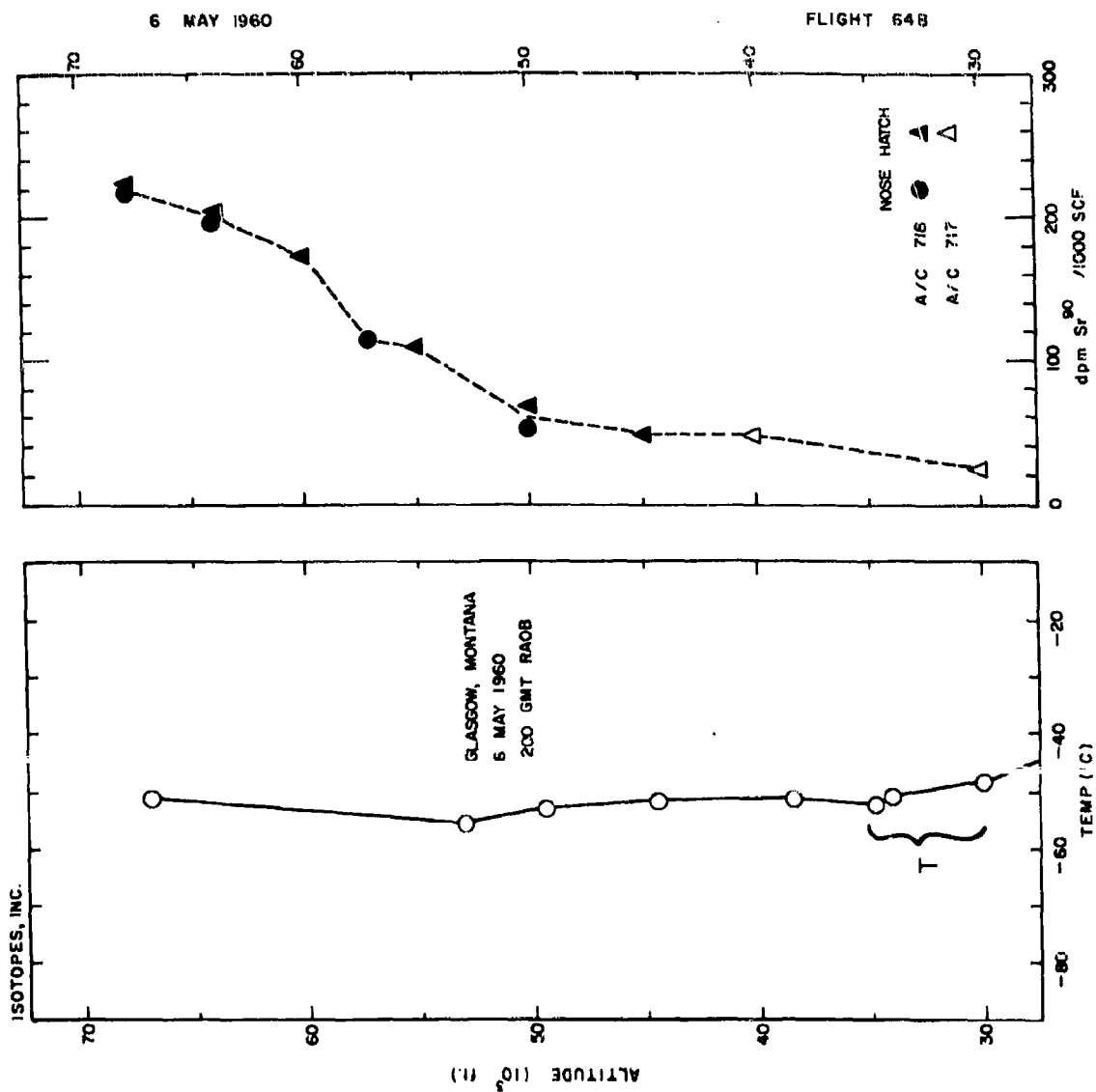


FIGURE 4.255 FLIGHT PROFILE

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
9 May 1960 Mission 64C								
715	3802	12°N	60	2,400	56 ± 1	758 ± 86	---	5.4
RS	3804	6°N	60	1,320	25 ± 1	758 ± 86	---	---
	3805	1°N	60	550	8 ± 1	758 ± 86	---	---
	3806	1°N	60	< 760	16 ± 1	---	---	---
	3803	5°S	60	660	18 ± 1	758 ± 86	---	5.2
	3807	5°S	60	1,180	24 ± 1	---	---	---
	3808	5°S	65	2,700	56 ± 1	2650 ± 170	---	5.2
	3809	1°N	65	3,000	94 ± 3	2650 ± 170	---	3.9
	3810	6°N	65	5,600	131 ± 4	2650 ± 170	---	3.9
714	3812	12°N	65.2	5,800	127 ± 1	1516 ± 106	---	5.0
RS	3813	6°N	66.3	6,000	123 ± 1	1516 ± 106	---	5.1
	3814	1°N	67.2	4,500	103 ± 2	1516 ± 106	---	5.0
	3816	1°N	67.2	4,200	99 ± 7	---	---	5.0
	3815	5°S	68.1	2,200	24 ± 1	1516 ± 106	---	---
	3817	5°S	68.1	3,100	85 ± 2	---	---	---
	3818	5°S	68.6	3,400	99 ± 2	---	---	---
	3819	1°N	69.3	6,500	131 ± 2	2650 ± 30	---	5.3
	3820	6°N	69.7	6,100	156 ± 3	2650 ± 30	---	5.3
	3821	12°N	70.6	9,700	205 ± 5	2650 ± 30	---	6.3

9 MAY 1960

FLIGHT 64C

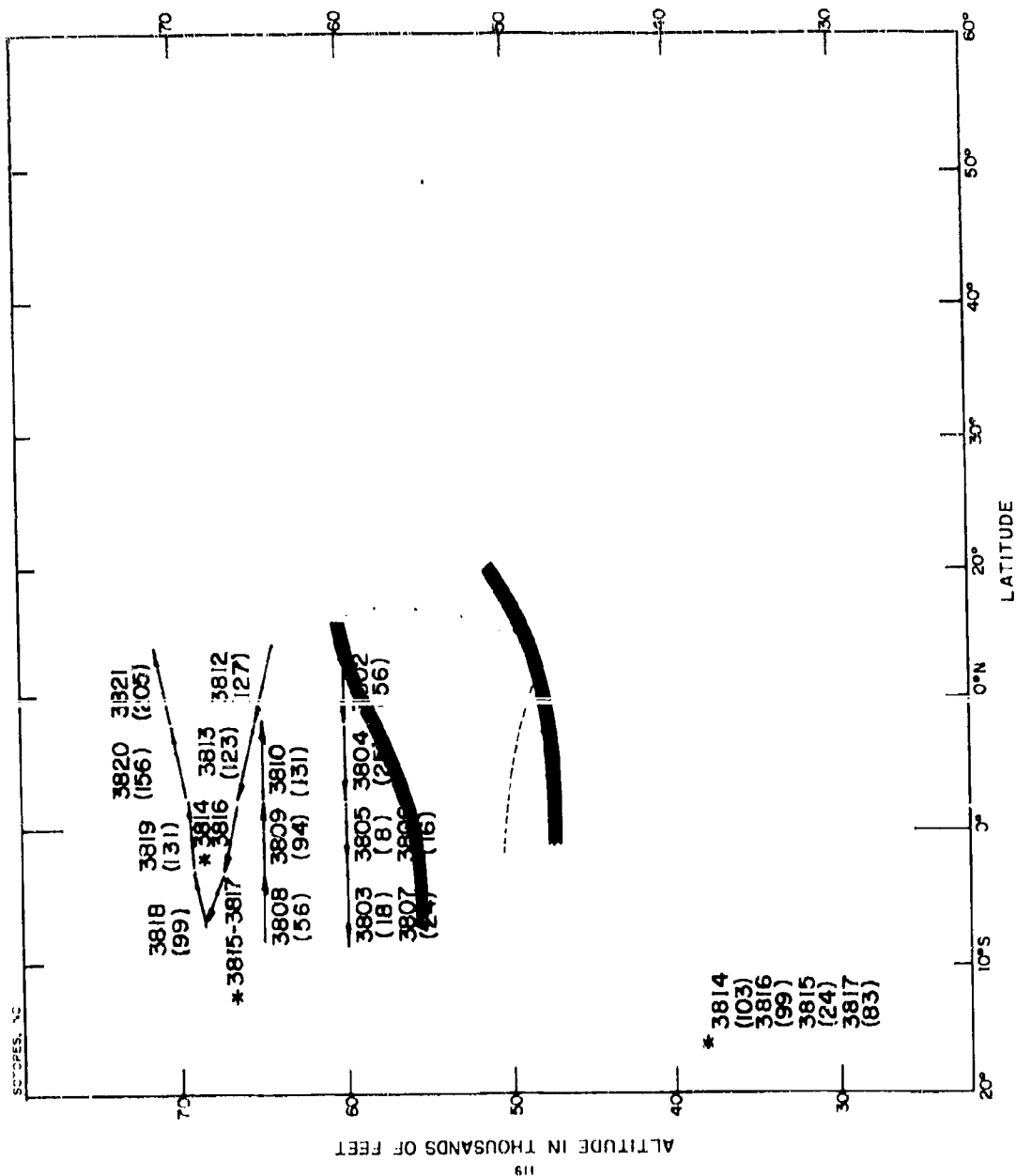


FIGURE 4.256 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W135 (Aug 58)		
10 May 1960 Eielson Missions 67, 68, 69								
951	3822	68°N	50	6,200	111 ± 1	---	---	7.6
ANW	3823	67°N	50	5,300	111 ± 1	---	---	7.6
952	3824	68°N	60	11,000	182 ± 4	---	---	7.7
ANW	3825	68°N	60	8,700	182 ± 4	---	---	7.7
953	3826	68°N	63.5	11,700	200 ± 6	---	---	7.6
ANW	3827	69°N	65	15,000	200 ± 6	---	---	7.6
11 May 1960 Eielson Mission 69A								
953	3828	69°N	63.3	11,400	226 ± 1	---	---	7.1
ANW	3829	68°N	66.2	15,200	226 ± 1	---	---	7.1
13 May 1960 Eielson Missions 70, 71, 72								
952	3830	68°N	55	5,500	99 ± 3	---	---	5.8
ANW	3831	69°N	50	4,700	99 ± 3	---	---	5.8
951	3832	68°N	60	12,100	212 ± 6	---	---	1.0
ANW	3833	68°N	60	12,000	212 ± 6	---	---	1.0
953	3834	68°N	63	13,100	192 ± 5	---	---	8.2
ANW	3835	68°N	65	17,300	192 ± 5	---	---	8.2
14 May 1960 Eielson Mission 71A, 72A								
951	3836	68°N	60	12,800	216 ± 5	---	---	7.0
ANW	3837	68°N	65	11,000	216 ± 5	---	---	7.0
17 May 1960 Eielson Missions 73, 74, 75								
951	3838	68°N	50	3,200	62 ± 2	---	---	5.6
ANW	3839	68°N	50	3,200	62 ± 2	---	---	5.6
952	3840	68°N	60	14,500	182 ± 1	---	---	8.9
ANW	3841	68°N	60	12,300	182 ± 1	---	---	8.9
953	3842	68°N	61.5	16,700	234 ± 3	---	---	7.5
ANW	3843	68°N	64	14,900	234 ± 3	---	---	7.5
20 May 1960 Eielson Missions 76, 77, 78								
952	3878	68°N	50	3,800	77 ± 1	✓ 1260	---	5.9
ANW	3879	68°N	50	4,700	77 ± 1	✓ 1260	---	5.9
951	3876	68°N	60	10,900	191 ± 2	✓ 1680	---	7.7
ANW	3877	68°N	60	12,400	191 ± 2	✓ 1680	---	7.7
953	3880	68°N	62	12,800	222 ± 1	✓ 1260	---	6.8
ANW	3881	68°N	64	11,600	222 ± 1	✓ 1260	---	6.8
24 May 1960 Eielson Missions 79, 80, 81								
951	3904	68°N	50	5,600	120 ± 1	---	---	6.3
ANW	3905	68°N	50	8,000	120 ± 1	---	---	6.3
952	3906	68°N	60	11,500	231 ± 1	✓ 1314	---	6.6
ANW	3907	68°N	60	14,100	231 ± 1	✓ 1314	---	6.6
953	3908	68°N	63	24,000	185 ± 1	---	---	7.7
ANW	3909	68°N	65.5	1,690	185 ± 1	---	---	7.7

20-25 MAY 1960

EIELSON FLIGHTS (66°N, 50°W)

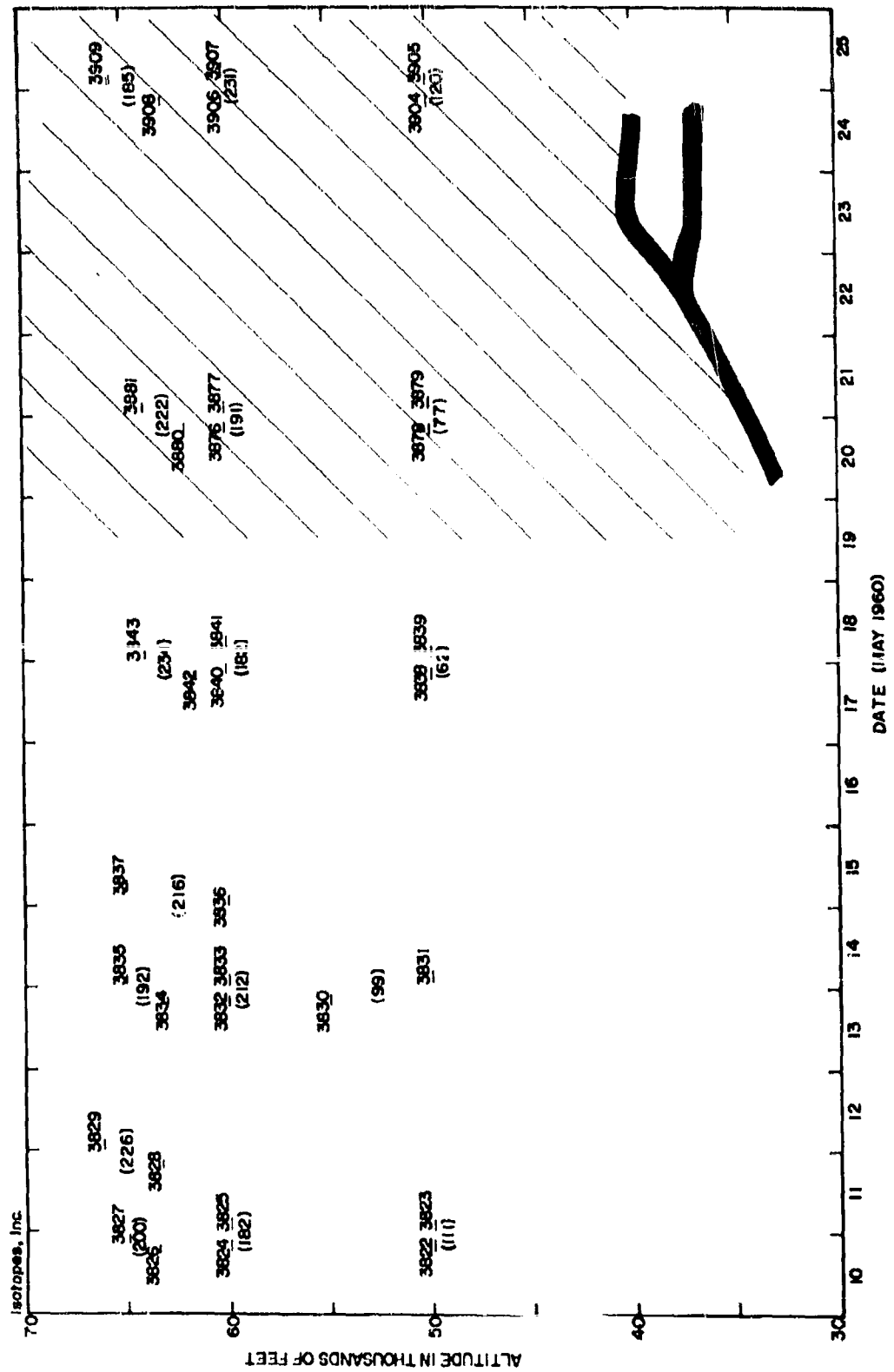


FIGURE 4.257 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>20 May 1960 Ramey Mission 1</u>								
RS	3844	14°N	68.5	9,500	156 $\pm$ 1	---	---	0.2
<u>21 May 1960 Ramey Mission 2</u>								
RS	3845	14°N	60	1,120	24 $\pm$ 1	---	---	---
<u>22 May 1960 Ramey Mission 3</u>								
RS	3846	14°N	50	280	7 $\pm$ 1	---	---	---
<u>23 May 1960 Ramey Mission 4</u>								
RS	3873	14°N	66	3,100	74 $\pm$ 1	---	---	5.2
<u>24 May 1960 Ramey Mission 5</u>								
RS	3884	14°N	62	1,850	36 $\pm$ 1	---	---	5.5
<u>25 May 1960 Ramey Missions 7, 8</u>								
RS	3887	14°N	50	1,010	18 $\pm$ 1	---	---	5.3
RS	3886	14°N	66	3,100	84 $\pm$ 1	---	---	5.0
<u>26 May 1960 Ramey Mission 9</u>								
RS	3888	14°N	62	$\leq$ 69	---	---	---	---
<u>27 May 1960 Ramey Missions 10, 11</u>								
RS	3890	15°N	66.6	1,750	33 $\pm$ 1	---	---	---
RS	3889	15°N	60	2,000	43 $\pm$ 1	---	---	---

20-29 MAY 1960

RAMEY FLIGHTS (15°N-61°W)

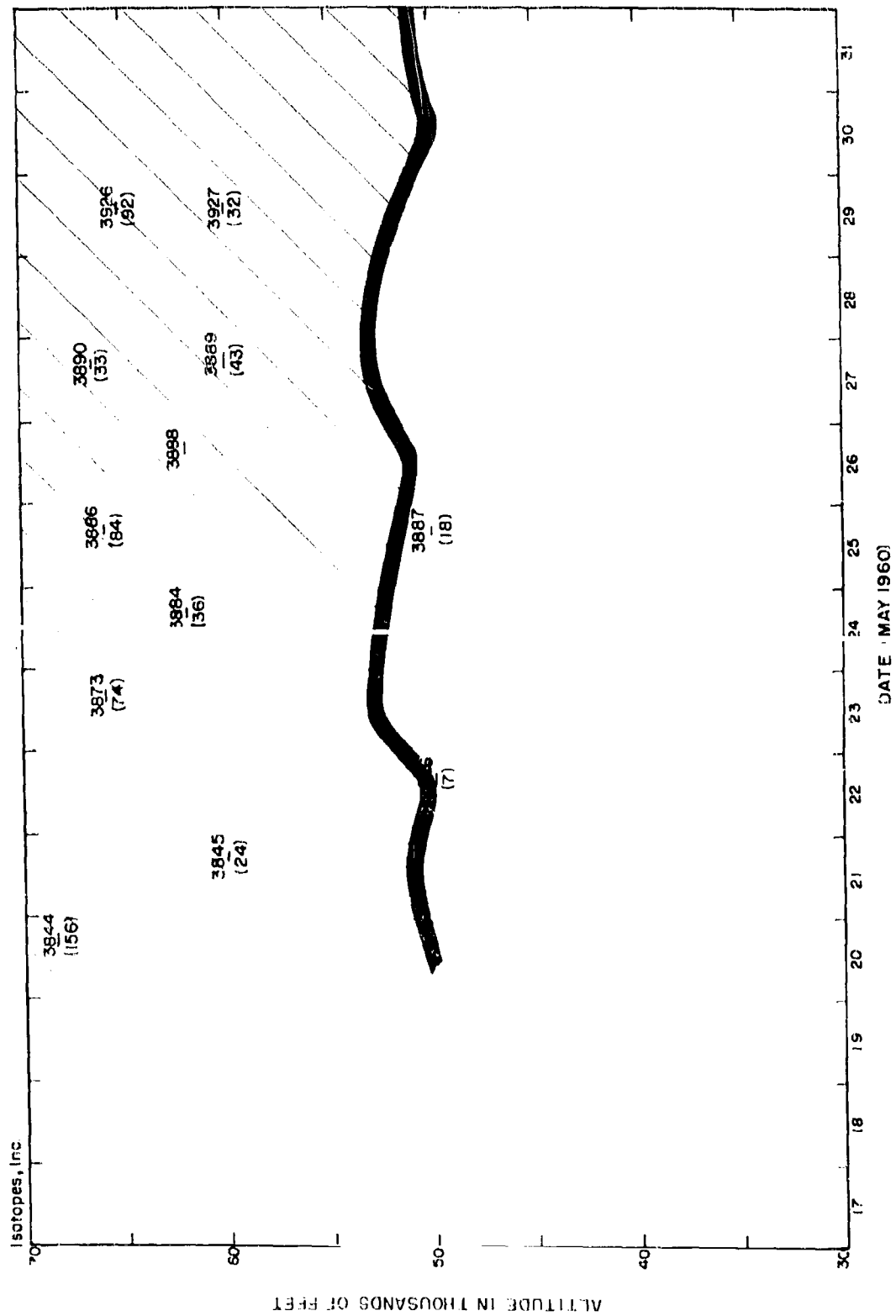


FIGURE 4.258 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	Total Beta	dpm/1000 SCF			
					Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>29 May 1960 Ramey Missions 14, 15</u>								
RS	3926	15°N	65.2	4,900	92 $\pm$ 1	---	---	---
RS	3927	15°N	60	1,890	32 $\pm$ 1	---	---	---
<u>20 May 1960 Laughlin Missions 62, 63</u>								
696 LO	3847	31°N	60	3,700	---	---	---	---
680 LO	3848	31°N	65.4	6,400	---	---	---	---
<u>24 May 1960 Laughlin Missions 65, 66</u>								
696 LO	3874	31°N	60	350	---	---	---	---
680 LO	3875	31°N	69.4	11,000	---	---	---	---
<u>26 May 1960 Laughlin Mission 67</u>								
696 LO	3891	31°N	60	4,800	102 $\pm$ 1	---	---	5.9
<u>2 June 1960 Laughlin Mission 73</u>								
696 LO	3942	31°N	60	3,700	70 $\pm$ 1	---	---	6.8

20 MAY - 2 JUNE 1960

LAUGHLIN FLIGHTS (30°N-102°W)

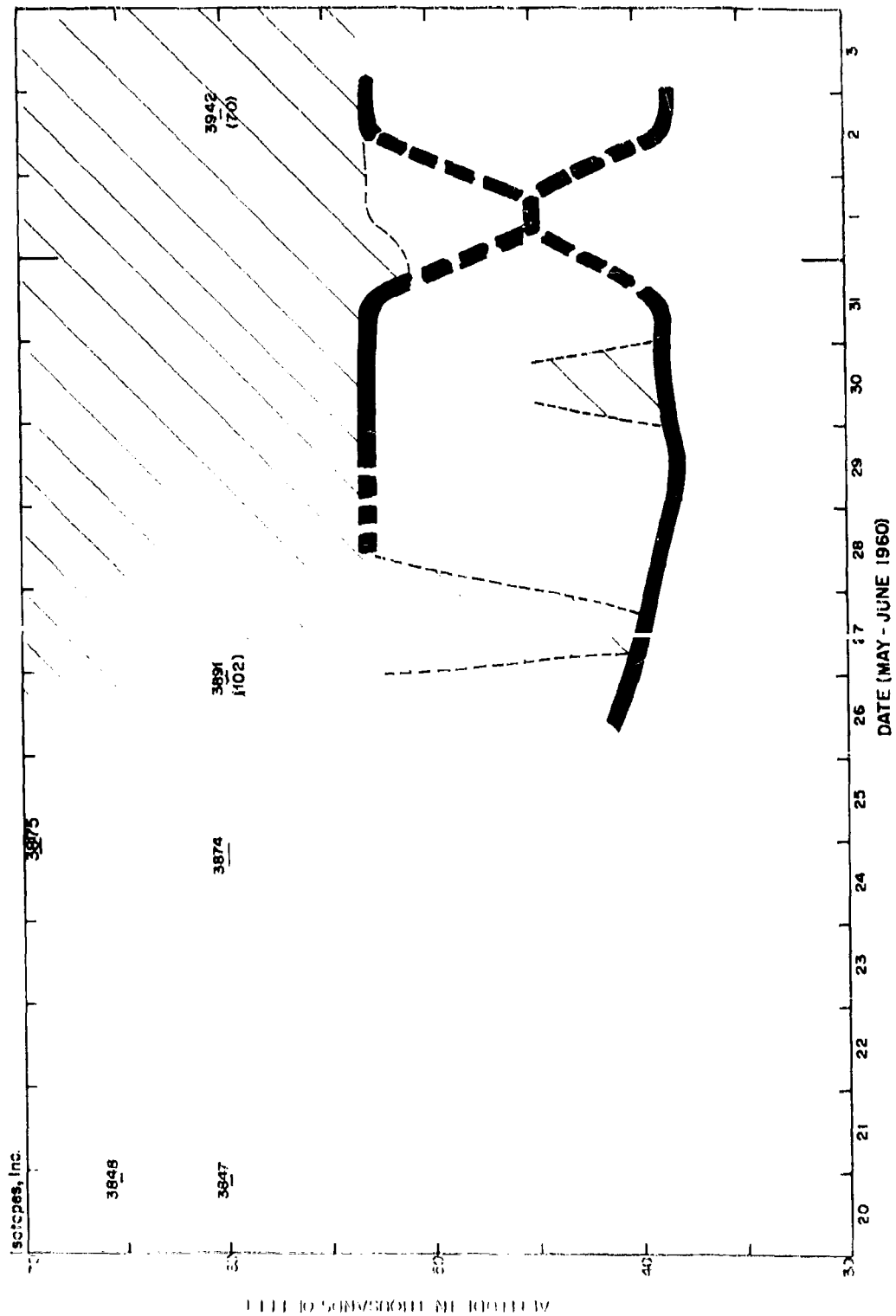


FIGURE 4.259 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)			
<u>12 May 1960 Mission 64R</u>									
716	3849	11°N	65.3	4,700	111 ± 1	1560 ± 90	---	5.1	
RE	3853	11°N	65.3	5,800	119 ± 1	1560 ± 90	---	5.6	
	3850	0°	67	3,400	95 ± 1	3510 ± 120	---	4.4	
	3854	0°	67	4,000	108 ± 1	3510 ± 120	---	4.5	
	3851	13°S.	68.5	3,100	90 ± 2	3900 ± 100	---	4.8	
	3855	13°S	68.5	3,700	104 ± 1	3900 ± 100	---	4.5	
	3852	25°S	69	4,100	99 ± 3	1950 ± 120	---	5.6	
	3856	25°S	69	1,320	58 ± 1	1950 ± 120	---	4.8	
714	3865	11°N	64.5	5,200	126 ± 4	1560 ± 90	---	5.9	
RE	3869	11°N	64.5	6,200	133 ± 1	1560 ± 90	---	5.6	
	3866	1°S	66.5	3,000	95 ± 2	3510 ± 120	---	4.1	
	3870	1°S	66.5	3,400	108 ± 1	3510 ± 120	---	4.4	
	3867	12°S	67	3,600	98 ± 1	3900 ± 100	---	4.5	
	3871	12°S	67	3,800	119 ± 1	3900 ± 100	---	3.7	
	3868	24°S	67	4,700	137 ± 3	1950 ± 120	---	4.0	
	3872	24°S	67	5,600	136 ± 2	1950 ± 120	---	5.3	

12 MAY 1960

FLIGHT 64R

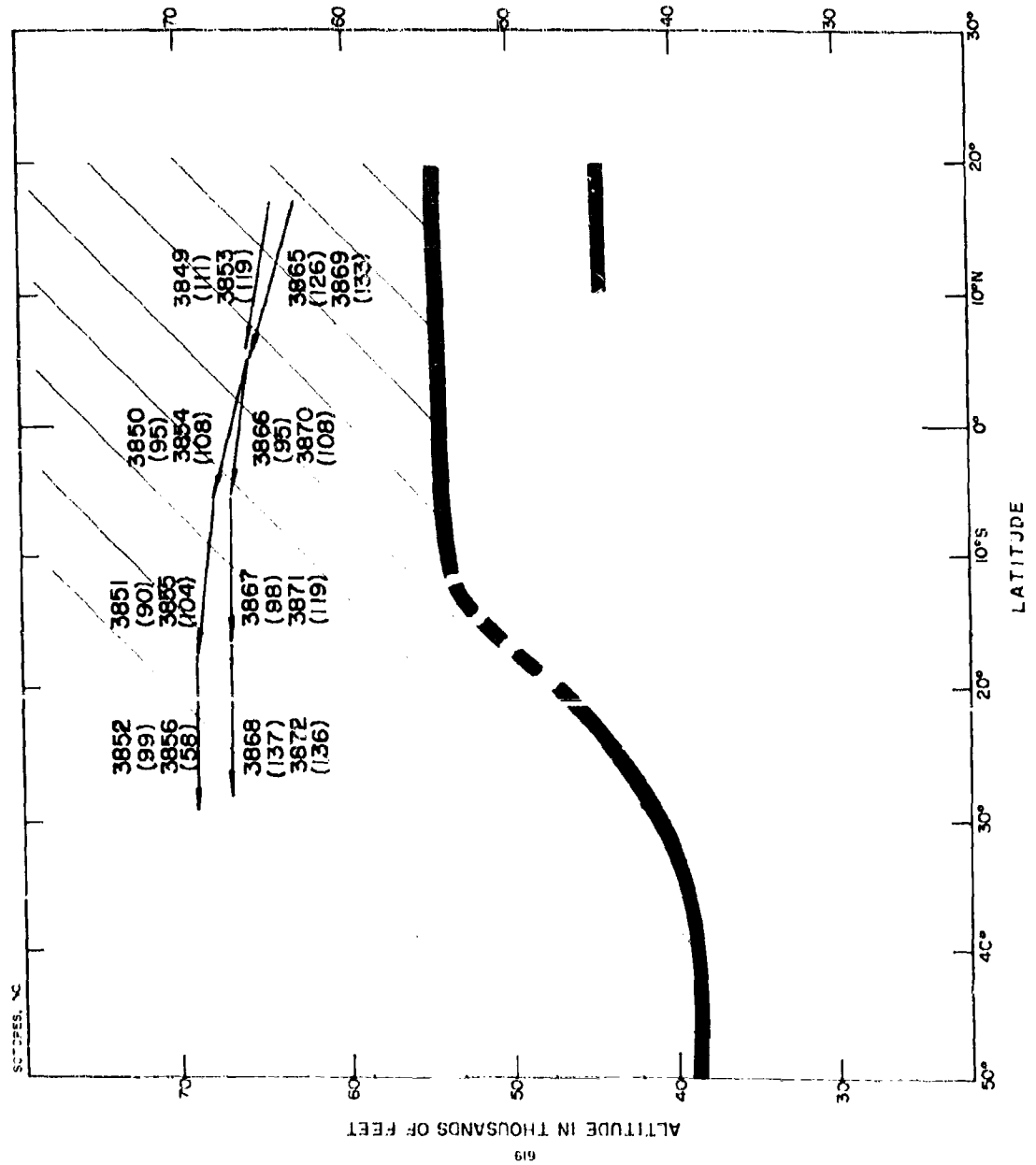


FIGURE 4.260 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HAASP No.	Lat.	Alt.	dpm/1000 SCF			Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)		
19 May 1960 Ezeiza Missions 67, 68, 69								
714	3900	38°S	50	1,350	46 ± 1	1640 ± 20	---	4.0
ES	3902	38°S	50	2,100	46 ± 1	1640 ± 20	---	4.0
	3903	38°S	50	2,000	46 ± 1	1640 ± 20	---	4.0
715	3896	38°S	60	3,300	117 ± 2	< 2050	---	5.3
ES	3898	38°S	60	5,300	117 ± 2	< 2050	---	5.3
	3899	38°S	60	6,500	117 ± 2	< 2050	---	5.3
716	3894	38°S	65	6,600	165 ± 3	< 1640	---	5.0
ES	3895	38°S	65	8,400	165 ± 3	< 1640	---	5.0
23 May 1960 Ezeiza Missions 70, 71								
716	3913	40°S	60	3,100	74 ± 2	1720 ± 60	---	4.4
ES								
715	3911	40°S	65.7	7,100	174 ± 4	1720 ± 120	---	5.0
ES								
26 May 1960 Ezeiza Missions 73, 74								
714	3916	38°S	60	4,200	85 ± 1	4840 ± 920	---	4.8
ES	3918	38°S	60	3,500	85 ± 1	4840 ± 920	---	4.8
	3919	38°S	69	3,600	85 ± 1	4840 ± 920	---	4.8
715	3920	38°S	50	400	10 ± 1	---	---	---
ES	3921	40°S	50	1,350	32 ± 1	---	---	4.3
	3924	40°S	50	1,600	38 ± 1	---	---	---
	3923	38°S	65	6,000	117 ± 3	---	---	---
	3925	38°S	65	6,500	128 ± 2	---	---	---
31 May 1960 Ezeiza Missions 75, 76, 77								
716	3938	40°S	50	134	4 ± 1	---	---	---
ES								
715	3934	40°S	60	2,300	57 ± 1	1380 ± 70	---	5.1
ES								
714	3930	40°S	64.5	7,100	171 ± 1	920 ± 110	---	4.9
ES								
2 June 1960 Ezeiza Missions 78, 79, 80								
716	3947	38°S	50	730	26 ± 1	< 1410	---	4.0
ES	3949	38°S	50	1,460	26 ± 1	< 1410	---	4.0
714	3950	38°S	60	3,800	47 ± 1	< 940	---	5.1
ES	3952	38°S	66	7,300	129 ± 2	< 4230	---	4.9
715	3943	38°S	64.5	2,300	129 ± 2	< 4230	---	4.9
ES	3945	38°S	60	1,050	47 ± 1	< 940	---	5.1
	3946	38°S	60	2,000	47 ± 1	< 940	---	5.1

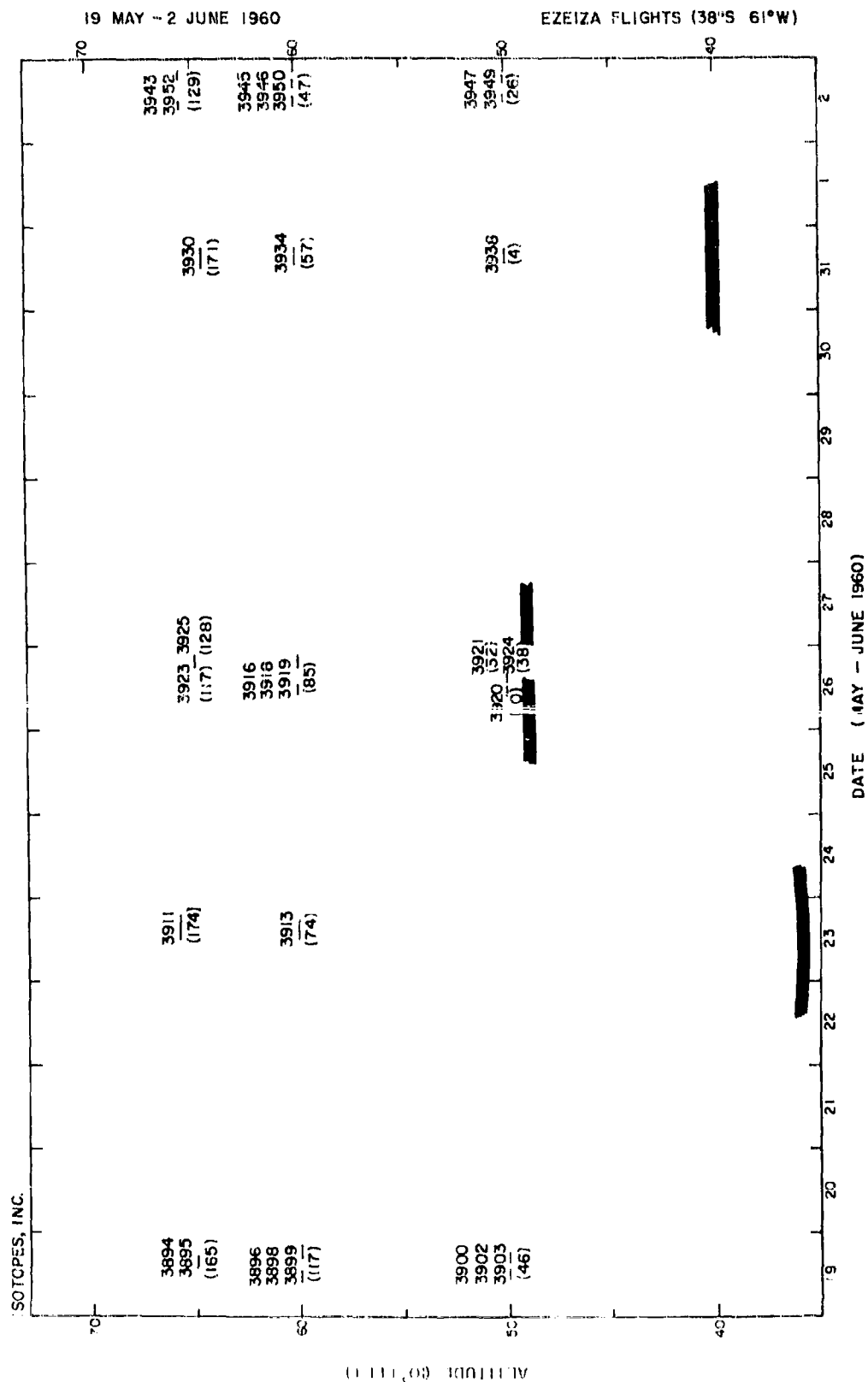


FIGURE 4.261 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			$\frac{\text{Sr}^{89}}{\text{Sr}^{90}}$	$\frac{\text{Ce}^{144}}{\text{Sr}^{90}}$
				Total Beta	Sr^{90}	W^{185} (Aug 58)		
6 June 1960 Ezeiza Mission 99								
716	3953	46°S	66	7,700	164 ± 1	≤ 980	---	5.9
ES	3954	54°S	67	7,000	180 ± 3	≤ 980	---	5.2
	3955	54°S	67.9	8,300	202 ± 2	≤ 980	---	5.7
	3956	46°S	69.3	10,500	227 ± 1	≤ 980	---	5.5

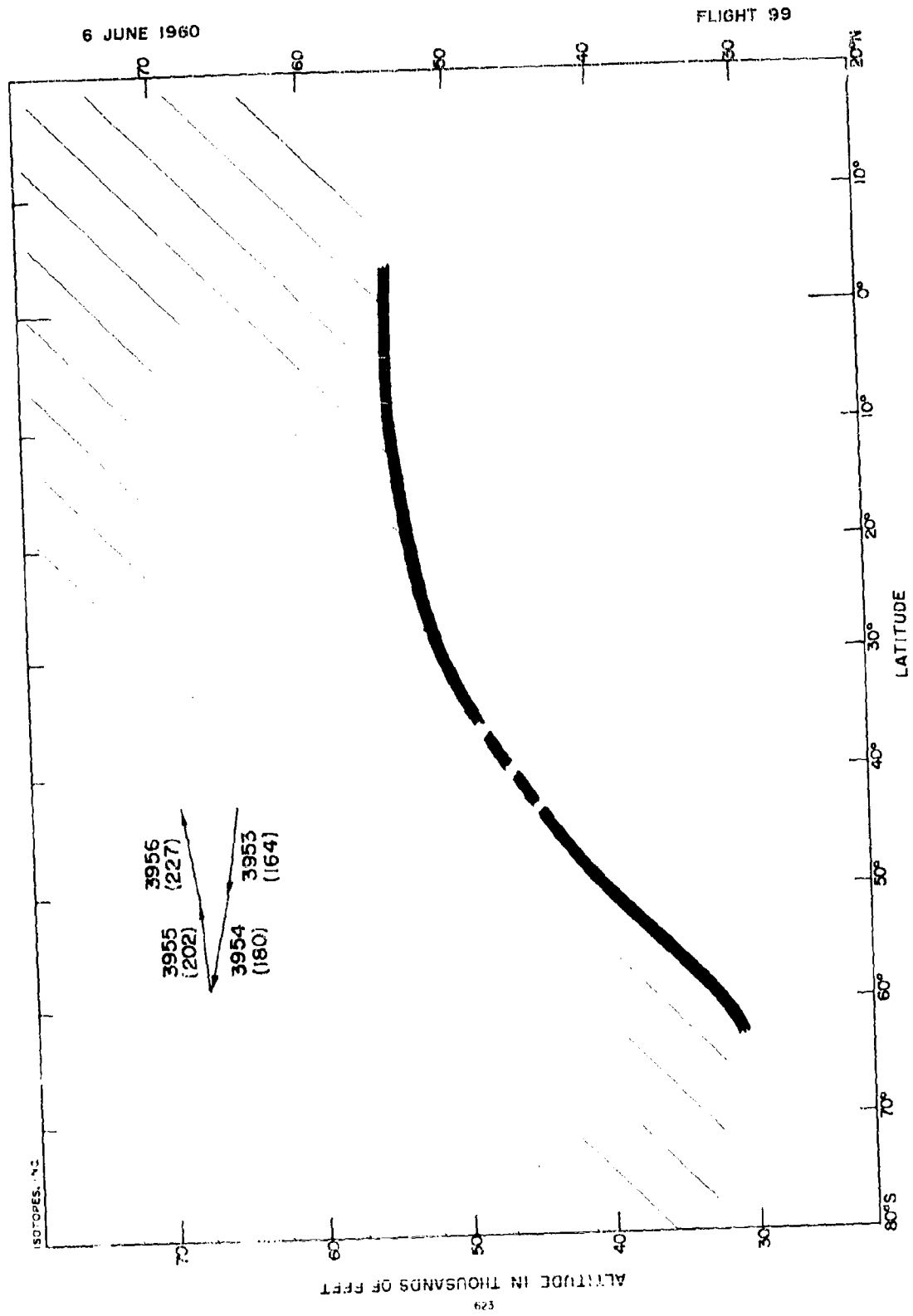


FIGURE 4.252 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF			Sr^{89}	Ce^{144}
				Total Beta	Sr^{90}	W^{185} (Aug 58)	Sr^{90}	Sr^{90}
8 June 1960 Ezeiza Missions 91, 92								
715	3974	27°S	65	4,900	121 $\pm$ 3	1500 $\pm$ 90	---	4.8
ER	3978	27°S	65	5,500	134 $\pm$ 2	1500 $\pm$ 90	---	4.9
	3975	17°S	66.3	3,400	90 $\pm$ 1	2000 $\pm$ 100	---	5.0
	3979	17°S	66.3	4,700	122 $\pm$ 2	2000 $\pm$ 100	---	4.4
	3976	5°S	67.5	3,500	93 $\pm$ 1	2500 $\pm$ 90	---	4.0
	3980	5°S	67.5	3,900	90 $\pm$ 1	2500 $\pm$ 90	---	4.0
	3977	6°N	68.8	4,100	96 $\pm$ 1	2500 $\pm$ 100	---	4.8
	3981	6°N	68.8	4,700	127 $\pm$ 1	2500 $\pm$ 100	---	4.1
716	3982	27°S	64.5	5,000	137 $\pm$ 3	1500 $\pm$ 90	---	4.2
ER	3986	27°S	64.5	6,300	159 $\pm$ 1	1500 $\pm$ 90	---	4.3
	3983	16°S	65.7	3,600	97 $\pm$ 2	2000 $\pm$ 100	---	4.1
	3987	16°S	65.7	4,200	103 $\pm$ 2	2000 $\pm$ 100	---	4.3
	3984	5°S	67.5	3,400	97 $\pm$ 1	2500 $\pm$ 90	---	3.8
	3988	5°S	67.5	5,100	107 $\pm$ 1	2500 $\pm$ 90	---	4.1
	3985	5°N	69.1	4,400	106 $\pm$ 1	2500 $\pm$ 100	---	4.5
	3989	5°N	69.1	4,900	125 $\pm$ 2	2500 $\pm$ 100	---	4.3

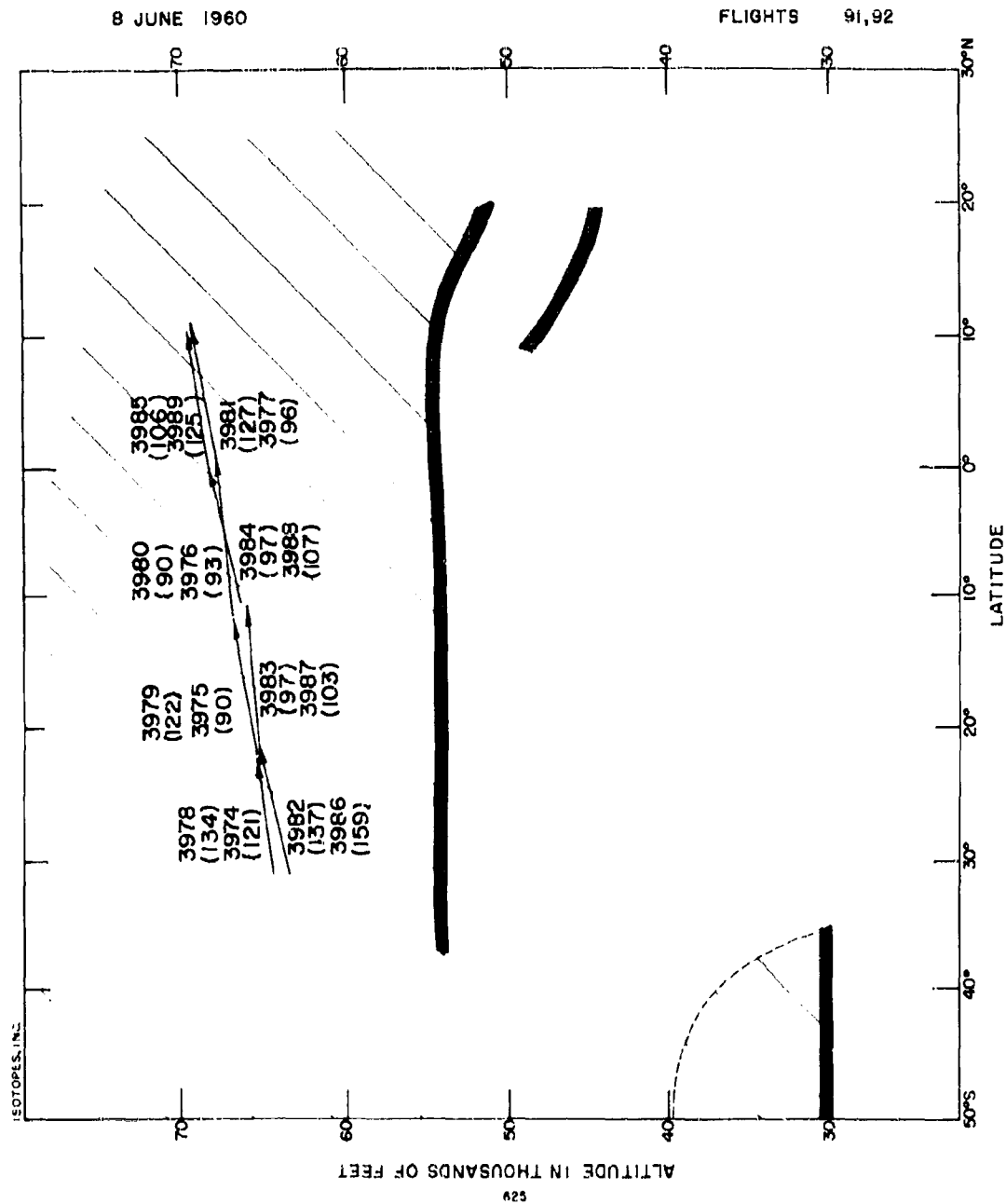


FIGURE 4.263 FLIGHT CROSS SECTION

Table 4.3 (continued)

AC No.	HASP No.	Lat.	Alt.	dpm/1000 SCF				
				Total Beta	Sr ⁹⁰	W ¹⁸⁵ (Aug 58)	Sr ⁸⁹ Sr ⁹⁰	Ce ¹⁴⁴ Sr ⁹⁰
<u>10 June 1960 Missions 93, 94, 95</u>								
714 RL	3960	24°N	55	1,350	28 $\pm$ 1	---	---	4.9
715 RL	3962	25°N	60	4,100	91 $\pm$ 1	510 $\pm$ 100	---	4.9
716 RL	3964	25°N	65	8,200	154 $\pm$ 1	1530 $\pm$ 220	---	5.3

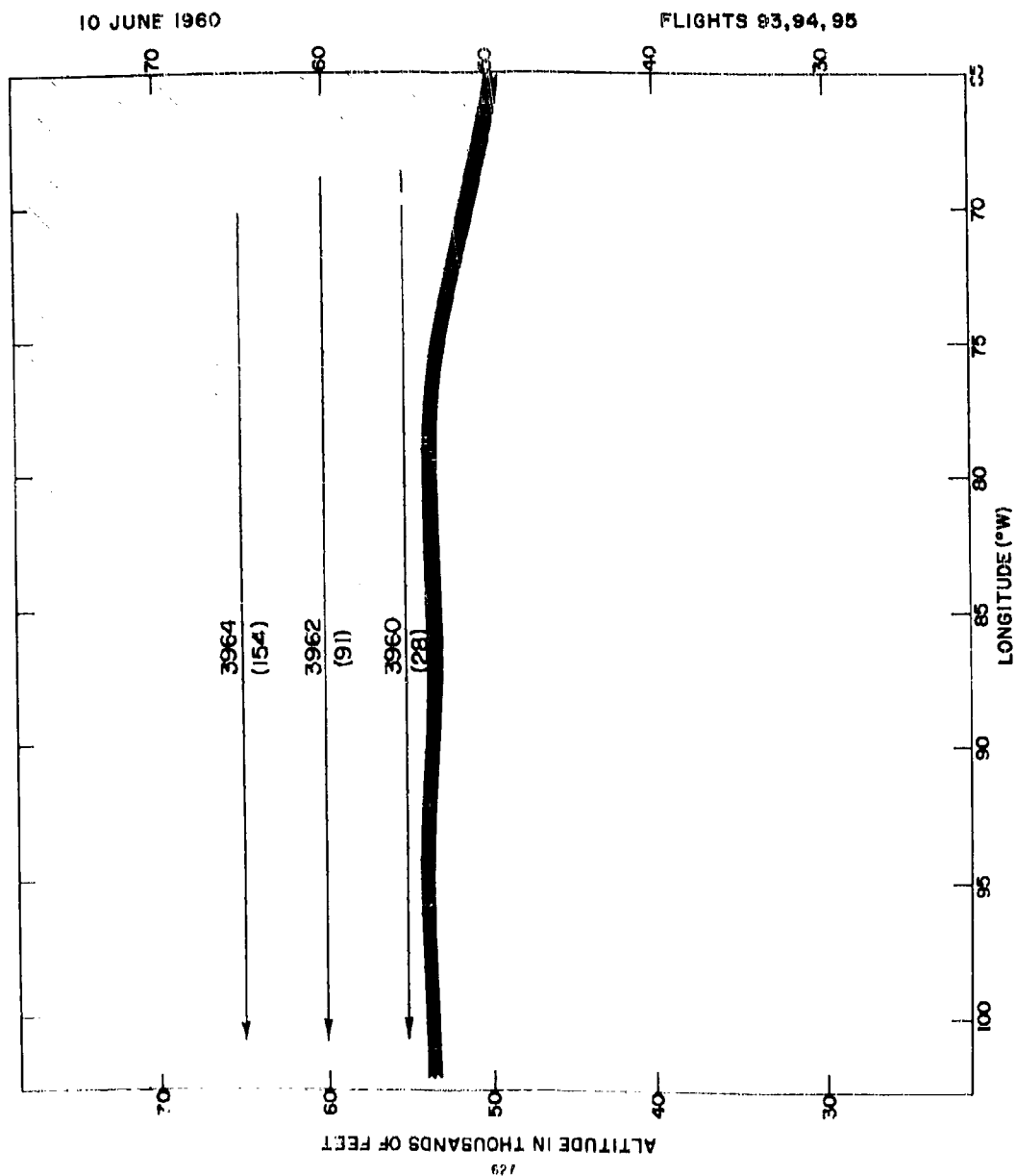


FIGURE 4.264 FLIGHT CROSS SECTION