CHAPTER III

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eastern direction was 70 x 50 square millimeters, and that exposed to western direction was 50 x 50 square millimeters. The results are shown in Table I, and II. The Star rates in stars/c.c/day in the column denoted by (c - a) are obtained by multiplying the difference between the numbers of stars in the column (C) and the column (a) by (3 x area scanned x thickness x no. of days from 31 January to 3 April). and those in the column (c - b) are obtained by the difference between the numbers of stars in the column (c) and the column (c) and the column (d) by (3 x area scanned x thickness of stars in the column (d) and the column (e) by (3 x area scanned x thickness x no. of days from 20 February to 3 April). The errors shown are standard errors (see Appendix I).

Pable I. Frequency distribution of stars from easterly direction

No. of	Dates of processing			stor rates		Mean
bronge	31 Jan. 1962 (a)	20 Feb. 1962 (b)	3 April 1962 (c)	(atara/c.c./day)		
per star						stor rates
				0 + a	c - b	
2	330	371	739	2.10 ±.10	2.79 4.15	2.45 1.18
3	662	921	2030	7.00 ±.20	8.40 2.25	7.70 ±. 32
4	529	758	1479	4.87 ±.16	5.45 2.20	5.16 ±.25
5	188	206	318	0.67 ±.06	0.85 ±.08	0.76 ±.10
> 5	82	7 2	72	-0.051±.016	0.00 ±0.00	-0.026 <u>+</u> .016
>8	33	32	28	-0.0261.011	-0.030±.015	-0.0281.019
>15	1	2	3	+0.010±4007	0.008 <u>±.00</u> 8	0.009±.011
Total	1791	2328	4638	14.6 2.27	17.5 1.37	16.05 ±.46

Total area scanned 31500 (cm)2.

Table II. Frequency distributions of stors from westerly direction

No. of prongs	Dates 31 Jan.	es of processing		etar rates (stars/c.c./day)		Kenn
per star	1962 (a)	1962 (b)	1962 (a)	c = a	c - b	Star rates
s	178	207	528	2.5113	3,40 £,19	2.96 2.23
3	437	700	1385	8.30 ±.24	7.25 ±.28	7.78 2.37
4	350	528	1127	5.71 ±.20	6.35 2.26	6.03 £.33
5	89	172	274	1.33 2.10	1.08 ±.11	1:21 ±:15
> 5	65	56	45	14 <u>3</u> ±.032	117±.035	1302.047
>8	20	18	5	108±.028	138±.038	123±.047
>15	s	5	1	007±.007	042 <u>+</u> .021	0252.022
Total	1099	1663	3359	16.2 ±.34	18.05 ±.44	17.3 ±.56

Total erea scanned 22500 (mm)2