

# 柿岡における地球磁氣變化度K及Cの値

地磁氣観測所

Geomagnetic Indices, K and C, at Kakioka

1932, 1933 and 1942~1950<sup>1</sup>

Kakioka Magnetic Observatory

柿岡で観測せる地球磁氣記録により決定せる K (three-hour-range indices) 及び C(character figure) の値を 1932~1933, 及び 1942~1950 の期間について第1表に示す。尚第1表の日付と Sum との間の 8 つの行の値は次の時間中のものである。

第1行: 0<sup>h</sup>~3<sup>h</sup>, 第2行: 3<sup>h</sup>~6<sup>h</sup>, 第3行: 6<sup>h</sup>~9<sup>h</sup>,

第4行: 9<sup>h</sup>~12<sup>h</sup>, 第5行: 12<sup>h</sup>~15<sup>h</sup>, 第6行: 15<sup>h</sup>~18<sup>h</sup>,

第7行: 18<sup>h</sup>~21<sup>h</sup>, 第8行: 21<sup>h</sup>~24<sup>h</sup>. (G.M.T.)

第2表には自記記録の平均感度を月毎に、水平分力 H 及び鉛直分力 Z について示した。

尚偏角の感度はすべて 6.00γ/mm であり K=9 の較差の下限は 300γ である。

## 柿岡における地球磁気変化度K及Cの値

Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)  
January, 1932 February, 1932 March, 1932

Day	K	Sum	C	Day	K	Sum	C	Day	K	Sum	C
1	2 2 1 3 3 2 3 2	18	0	1	1 1 1 1 1 1 1 1	8	0	1	1 0 1 0 0 0 0 2	4	0
2	3 3 3 3 4 4 3 3	26	1	2	0 2 0 1 0 0 2 0	5	0	2	1 1 1 3 3 4 3 4	20	1
3	2 2 2 1 3 2 2 1	15	0	3	2 2 4 4 5 5 3 3	28	1	3	2 2 3 4 4 3 3 3	24	1
4	1 1 1 0 1 1 2 1	8	0	4	3 2 3 5 5 3 3 2	26	1	4	3 3 3 3 4 2 3 2	23	1
5	0 1 1 1 2 2 2 1	10	0	5	1 2 3 2 2 3 2 2	17	0	5	3 2 3 3 2 3 2 3	21	1
6	1 1 0 1 2 2 1 1	9	0	6	2 1 2 3 3 3 3 2	19	1	6	2 2 2 4 4 3 3 2	22	1
7	1 2 1 1 1 2 3 3	14	0	7	1 2 1 2 2 2 2 2	14	0	7	1 1 2 3 3 4 3 2	19	1
8	2 2 3 3 3 3 3 3	22	1	8	2 2 2 2 4 4 2 1	19	1	8	4 4 3 3 0 3 3 2	22	1
9	2 2 2 3 3 3 3 3	21	1	9	2 1 2 2 3 2 2 2 2	16	1	9	3 3 2 2 3 3 3 3	22	1
10	2 1 2 3 4 4 2 1	19	1	10	2 2 3 3 3 5 2 2	22	1	10	3 2 2 4 2 4 3 3	23	1
11	2 2 3 3 2 3 3 3	21	1	11	1 1 2 1 3 4 3 2	17	1	11	3 2 3 3 3 2 1 2	19	1
12	1 2 2 3 4 3 2 2	19	1	12	2 1 2 3 3 3 2 3	19	1	12	0 1 2 2 3 1 1 0	10	0
13	3 1 2 2 2 2 2 2	15	0	13	1 2 2 3 3 3 2 1	17	0	13	1 2 2 1 1 1 1 0	9	0
14	2 2 0 2 2 2 1 2	13	0	14	1 2 0 3 3 2 2 1	14	0	14	1 3 1 3 2 3 2 2	17	1
15	1 2 2 2 1 1 3 1	13	0	15	0 1 0 2 2 1 1 0	7	0	15	1 2 1 2 2 2 0 1	11	0
16	1 1 1 3 2 3 2 1	14	0	16	0 0 1 0 0 0 1 0	2	0	16	32(2) 11 1 0 2 0	10(10)	0
17	1 1 2 1 1 3 1 1	11	0	17	0 0 1 0 0 0 0 0	1	0	17	0 1 0 0 0 1 3 0	5	0
18	0 0 1 0 0 1 0 0	2	0	18	0 0 0 1 0 1 2 2	6	0	18	2 3 3 3 3 3 4 2	23	1
19	1 0 0 1 0 1 1 1	5	0	19	1 2 2 2 2 2 2 2	15	0	19	2 2 1 2 2 2 2 1	14	0
20	0 0 0 1 2 2 1 1	7	0	20	3 3 5 4 3 3 2 0	23	1	20	1 1 1 1 3 2 2 2	13	1
21	1 2 1 0 1 0 1 0	6	0	21	0 1 2 3 3 2 1 0	12	0	21	2 3 3 4 3 3 2 3	23	1
22	0 1 0 0 0 1 0 1	3	0	22	1 1 4 3 3 3 2 1	18	0	22	3 3 3 3 5 2 2 2	23	1
23	1 1 0 1 2 1 1 1	8	0	23	3 1 1 0 1 2 4 2	14	1	23	3 2 2 3 3 2 2 2	19	1
24	2 2 2 2 2 3 2 2	17	0	24	2 2 3 4 4 2 2 2	21	1	24	1 2 2 2 2 1 1 1	12	0
25	2 3 3 4 3 5 3 2	25	1	25	2 3 2 2 3 3 2 1	18	1	25	1 0 0 0 0 1 0 0	2	0
26	1 1 3 3 2 3 3 4	20	1	26	2 2 2 2 3 2 0 1	14	0	26	1 1 0 0 0 2 1 0	5	0
27	2 2 2 3 4 4 1 3	21	1	27	0 0 0 1 2 2 1 0	6	0	27	1 0 0 0 1 2 3 0	7	0
28	2 2 3 3 4 3 4 2	23	1	28	0 1 1 0 1 2 0 1	6	0	28	2 2 2 3 3 4 3 2	21	1
29	2 1 1 2 3 1 1 2	14	0	29	1 0 0 0 0 1 0 1	3	0	29	3 2 3 3 5 4 3 3	26	1
30	0 1 1 2 3 3 1 1	12	0					30	2 4 3 3 4 4 3 3	26	1
31	2 2 3 3 3 4 0 0	17	0					31	3 4 3 4 4 3 3 1	25	1
mean		14.5	0.4	mean		14.0	0.4	mean		16.8	0.6

April, 1932

May, 1932

June, 1932

Day	K	Sum	C	Day	K	Sum	C	Day	K	Sum	C
1	3 2 2 1 2 4 3 3	20	1	1	1 1 2 2 2 1 1 2	12	0	1	1 1 2 2 2 1 1 2	12	0
2	4 2 3 3 3 4 3 3	25	1	2	1 2 1 1 3 1 3 3	15	1	2	2 2 2 2 1 1 1 1	12	0
3	2 2 2 3 3 2 4 2	20	1	3	2 3 3 4 2 1 2 1	18	1	3	1 0 1 1 0 1 0 0	4	0
4	2 1 2 2 3 2 2 2	16	1	4	0 1 2 3 2 2 2 2	14	1	4	0 0 1 0 0 0 0 1	2	0
5	3 3 3 2 3 3 1 1	19	1	5	2 2 3 1 3 3 2 2	18	1	5	1 1 1 1 1 0 1 1	7	0
6	2 3 1 2 1 3 2 1	15	1	6	2 3 3 2 2 1 2 1	16	1	6	1 1 1 1 1 2 1 1	9	0
7	3 2 3 4 5 2 2 2	23	1	7	2 2 2 1 1 0 0 0	8	0	7	1 2 3 3 2 2 2 2	17	1
8	2 2 3 3 3 3 2 1	19	1	8	1 1 1 1 0 1 1 2	8	0	8	2 2 3 3 3 2 2 2	19	1
9	2 1 1 3 3 2 2 1	15	1	9	1 1 1 0 0 0 1 0	4	0	9	3 2 2 3 3 1 2 2	18	1
10	1 2 1 2 1 1 2 1	11	0	10	2 2 2 1 2 2 3 3	17	0	10	2 3 2 2 3 2 1 2	17	1
11	0 1 0 0 0 0 1 1	3	0	11	2 3 3 3 2 3 2 1	19	1	11	1 1 2 3 2 2 1 2	14	1
12	0 1 0 1 1 2 2 1	8	0	12	1 3 2 1 2 2 2 1	14	0	12	1 1 2 1 2 1 1 1	10	0
13	1 1 2 3 2 5 3 3	20	1	13	2 2 2 2 1 1 2 1	13	0	13	2 2 2 2 3 1 1 1	14	0
14	2 2 3 3 2 2 2 1	17	1	14	2 3 3 2 1 2 1 2	16	1	14	1 2 1 1 0 1 1 1	8	0
15	2 1 3 2 3 1 2 2	16	1	15	2 1 2 3 3 3 2 2	18	1	15	1 1 2 2 1 0 1 1	9	0
16	2 2 2 3 2 2 2 2	17	0	16	2 4 4 3 2 2 2 2	21	1	16	2 2 1 1 1 2 1 2	12	0
17	2 2 3 3 2 2 2 2	18	1	17	1 1 2 2 1 0 1 2	10	0	17	2 2 1 2 1 0 1 1	10	0
18	2 3 3 3 3 3 3 3	23	1	18	1 2 1 2 1 1 1 1	10	0	18	2 2 1 1 1 0 0 1	8	0
19	1 1 1 1 1 1 2 1	9	0	19	0 1 1 2 1 1 0 0	6	0	19	0 1 1 1 2 1 2 2	10	0
20	0 1 2 2 1 0 1 0	7	0	20	0 1 1 0 0 0 0 1	3	0	20	2 3 2 3 4 3 2 1	20	1
21	0 0 1 0 1 1 1 0	4	0	21	2 2 3 4 3 2 2 2	20	1	21	2 2 2 2 1 2 1 2	14	0
22	1 2 2 3 2 3 2 2	17	1	22	2 2 1 3 3 3 1 0	15	0	22	1 2 1 1 1 2 2 1	11	0
23	2 2 3 4 4 3 3 3	24	1	23	0 1 1 1 3 2 2 4	14	1	23	1 2 2 2 2 0 0 0	9	0
24	1 2 2 4 3 3 3 2	20	1	24	2 3 2 2 2 1 2 2	16	0	24	1 1 1 1 0 1 2 0	7	0
25	2 2 3 3 3 3 2 2	20	1	25	2 3 3 2 3 ..... 2	11	1	25	1 0 1 1 2 3 2 1	11	0
26	2 3 3 3 3 4 3 3	24	1	26	2 2 2 2 2 1 2 2	15	0	26	2 1 3 3 2 2 1 1	15	0
27	2 3 3 3 2 2 2 2	19	1	27	2 2 2 2 2 3 2 2	17	1	27	2 1 1 1 1 1 0 0	7	0
28	2 2 2 2 2 3 2 2	17	1	28	2 3 2 2 2 3 2 2	18	1	28	1 0 0 1 1 1 1 0	5	0
29	0 1 2 1 0 1 2 1	8	0	29	2 2 2 4 4 5 4 5	28	2	29	1 2 2 1 1 0 0 0	7	0
30	1 2 2 1 0 3 1 1	11	0	30	5 4 5 4 3 3 3 2	29	2	30	2 2 2 0 2 2 1 1	12	0
mean		16.2	0.7	mean	31	2 3 2 2 2 3 2 3	19	1		11.0	0.2

Day	K		Sum	C	Day	K		Sum	C	Day	K		Sum	C			
1	2	1	1	1	.....	2	0	...	0	1	2	1	2	2	1		
2	1	1	3	2	1	1	1	1	1	11	0	2	3	3	3		
3	1	1	1	1	1	1	1	1	1	8	0	3	3	3	4		
4	2	2	2	2	3	3	3	3	3	20	1	4	2	3	3		
5	3	3	2	2	3	3	4	3	3	23	2	5	1	3	3		
6	3	4	5	4	3	2	3	4	4	28	2	6	2	2	1		
7	3	3	3	4	2	2	2	2	2	21	2	7	2	2	1		
8	2	3	3	4	3	2	2	3	2	22	1	8	2	2	2		
9	2	3	.....	.....	.....	.....	.....	.....	.....	...	...	9	2	3	5		
10	2	2	2	3	2	2	2	2	2	17	1	10	1	1	1		
11	2	2	1	1	1	1	1	1	1	10	0	11	0	2	1		
12	2	2	2	3	2	1	3	1	1	16	0	12	2	2	1		
13	2	2	1	0	0	1	0	0	0	6	0	13	2	1	1		
14	1	2	1	1	1	1	1	1	1	9	0	14	2	1	2		
15	2	2	1	1	1	1	2	1	2	11	0	15	1	1	2		
16	1	2	4	4	5	2	2	3	3	23	2	16	1	1	0		
17	2	2	2	3	2	1	1	2	2	15	1	17	0	1	1		
18	2	1	2	1	2	2	3	1	1	14	1	18	1	1	3		
19	2	2	2	1	2	2	1	1	1	13	1	19	1	1	4		
20	1	1	1	1	2	1	1	1	1	10	0	20	1	1	1		
21	1	2	1	1	2	2	1	1	1	12	0	21	3	1	2		
22	1	1	1	2	1	2	2	2	2	12	0	22	0	1	2		
23	2	2	2	2	2	2	0	0	0	12	0	23	1	2	1		
24	1	1	1	0	2	2	3	2	2	12	0	24	0	0	1		
25	2	2	2	1	0	1	1	1	1	10	0	25	0	1	0		
26	2	2	3	2	2	2	1	2	2	16	1	26	1	1	1		
27	2	2	2	1	2	2	0	1	1	12	0	27	2	2	3		
28	0	1	0	1	0	0	0	0	0	2	0	28	5	4	5		
29	1	1	1	1	0	0	0	1	1	5	0	29	3	3	4		
30	1	1	1	2	1	1	1	1	1	9	0	30	3	3	3		
31	1	3	3	2	3	3	2	2	2	19	1	31	2	2	2		
mean							13.7	0.6	mean				14.8	0.7	mean		
																12.5	0.9

October, 1932

November, 1932

December, 1932

### 柿岡における地球磁氣變化度K及Cの値

Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)  
 January, 1933 February, 1933 March, 1933

Day	K	Sum	C	Day	K	Sum	C	Day	K	Sum	C
1	2 2 2 2 3 3 3 2	19	1	1	0 1 1 1 0 1 1 1	6	0	1	1 2 0 1 2 2 2 0	10	0
2	3 2 2 3 2 1 2 2	17	1	2	2 1 3 3 3 4 2 1	19	1	2	2 3 1 2 2 1 2 1	14	0
3	1 2 1 1 2 1 1 1	10	0	3	0 1 1 1 1 2 2 2	10	0	3	1 1 2 2 2 2 2 2	14	0
4	1 1 1 1 2 1 0 0	7	0	4	1 0 1 2 3 2 2 1	12	0	4	1 1 1 2 1 1 1 1	9	0
5	1 1 1 1 1 1 0 0	6	0	5	2 2 2 1 1 1 1 0	10	0	5	1 0 1 0 1 1 0 0	4	0
6	0 3 3 4 4 2 3 1	20	1	6	1 1 0 0 1 2 1 1	7	0	6	1 0 0 1 3 2 1 0	8	0
7	1 2 2 1 2 3 3 2	16	1	7	2 2 2 3 3 2 2 1	17	1	7	0 1 0 1 1 1 1	6	0
8	1 3 2 2 2 2 0 0	12	0	8	0 1 1 2 2 0 1 1	8	0	8	0 0 0 1 3 0 0 0	4	0
9	0 0 1 1 2 2 1 1	8	0	9	1 1 0 1 1 1 0 1	6	0	9	0 0 0 0 1 0 0 0	1	0
10	0 2 1 0 1 1 1 0	6	0	10	1 1 1 1 1 2 0 1	8	0	10	1 1 0 1 2 2 1 2	10	0
11	0 0 1 2 0 0 0 0	3	1	11	1 2 2 1 1 2 1 0	10	0	11	2 1 1 3 3 2 2 1	15	0
12	0 0 1 1 2 1 1 0	7	0	12	2 2 2 2 2 2 0 0 0	10	1	12	0 1 2 2 3 2 2 1	13	0
13	1 1 1 2 1 1 1 1	9	0	13	0 1 0 0 1 1 0 1	4	0	13	1 2 3 3 4 2 2 1	18	0
14	0 1 1 0 1 1 2 2	8	0	14	1 1 2 3 3 2 3 1	16	1	14	2 3 2 1 2 3 1 0	14	0
15	2 5 5 5 3 2 2 2	26	2	15	2 2 ..... ....	...	...	15	1 1 1 3 3 1 0 0	10	0
16	2 2 3 3 2 2 2 0	16	1	16	2 1 1 2 1 1 0 0	8	0	16	0 1 1 0 0 1 1 0	4	0
17	2 1 3 3 2 0 1 1	13	0	17	0 0 0 0 0 0 0 0	0	0	17	0 0 0 2 2 2 1 1	8	0
18	1 2 1 2 1 1 2 1	11	0	18	0 0 0 1 2 2 2 1	8	0	18	3 3 2 3 3 4 3 4	25	1
19	0 2 3 2 5 4 3 3	22	1	19	2 2 3 5 5 3 4 4	28	2	19	4 3 2 3 2 4 4 4	26	1
20	1 5 3 2 2 2 0 2(0)	17(15)	1	20	3 3 3 4 4 2 3 3	25	1	20	5 4 3 4 3 4 4 3	30	2
21	1 1 1 1 2 1 1 1	9	0	21	4 4 3 3 3 4 4 4	29	1	21	3 3 3 5 4 3 2 4	27	2
22	2 3 4 1 3 3 3 3	22	1	22	4 3 3 3 4 4 2 2	25	1	22	3 2 3 4 4 2 2 1	21	2
23	1 2 2 2 2 2 3 3	17	1	23	2 ..... 2 4 3 2 2	...	1	23	1 4 3 3 4 2 3 2	22	2
24	3 2 2 3 3 2 2 1	18	1	24	2 2 4 4 4 4 4 5	29	1	24	3 4 3 3 3 3 3 3	25	2
25	1 1 2 1 3 3 1 1	13	1	25	3 2 3 3 3 2 3 2	21	1	25	2 4 3 4 4 2 2 1	22	2
26	1 1 1 2 3 3 3 1	15	0	26	4 3 3 3 4 1 2 3	23	1	26	0 0 3 3 2 2 2 2	14	1
27	3 3 2 3 3 3 4 3	24	1	27	3 3 2 3 1 2 2 2	18	1	27	1 2 3 3 4 4 3 1	21	1
28	3 2 3 4 3 3 3 2	23	1	28	2 3 1 2 1 1 1 1	12	1	28	2 3 1 2 3 3 2 2	18	1
29	2 2 2 2 3 2 2 1	16	0					29	1 1 3 4 4 2 2 2	19	1
30	2 3 2 2 2 3 2 2	18	0					30	2 2 3 3 3 2 1 2	18	1
31	2 1 1 1 2 3 1 1	12	0					31	1 1 1 3 3 1 2 2	14	0
mean		14.2	0.5	mean		14.2	0.6	mean		15.0	0.6

April, 1933

May, 1933

June, 1933

Day	K		Sum	C	Day	K		Sum	C	Day	K		Sum	C			
1	1	1	3	2	2	1	1	2	3	3	4	6	6	5	20	1	
2	1	1	2	2	2	1	12	0	2	3	1	2	3	2	16	1	
3	1	3	2	4	4	2	2	...	1	3	2	1	3	3	13	1	
4	2	2	2	3	1	2	2	2	...	2	2	2	2	1	12	0	
5	1	1	2	2	3	3	1	1	5	2	3	3	2	4	10	0	
6	2	2	3	2	2	2	3	2	18	1	6	5	3	2	4	3	0
7	2	2	2	2	3	4	4	1	20	1	7	3	2	2	3	6	1
8	2	1	2	2	2	3	2	3	17	0	8	1	1	2	1	14	1
9	1	1	3	4	2	3	2	2	18	1	9	1	1	1	1	20	1
10	0	2	2	2	4	3	1	1	15	1	10	1	1	2	0	12	0
11	1	1	2	1	1	0	1	1	8	0	11	1	1	1	1	9	0
12	1	0	0	1	0	1	1	0	4	0	12	1	0	1	1	11	0
13	1	1	2	2	1	1	1	2	11	1	13	0	1	1	1	28	1
14	0	0	1	3	2	3	2	2	14	1	14	1	1	1	1	20	1
15	1	2	2	2	2	3	3	3	18	1	15	1	3	2	3	10	1
16	2	3	3	3	4	2	3	3	23	1	16	1	1	1	1	2	0
17	3	3	3	3	4	4	2	2	24	1	17	1	1	1	1	9	1
18	3	4	4	2	3	2	2	2	22	1	18	3	3	3	2	0	0
19	2	2	4	4	4	3	3	4	26	1	19	1	1	1	1	16	1
20	2	5	4	4	3	3	3	2	26	1	20	2	1	1	1	24	1
21	3	2	2	3	2	2	3	4	21	1	21	0	1	1	0	15	1
22	2	3	4	3	4	2	2	3	23	1	22	1	1	1	1	9	0
23	2	3	4	2	4	3	3	2	23	1	23	1	1	1	1	18	0
24	2	2	2	2	2	3	2	2	17	0	24	0	0	0	1	13	0
25	1	1	2	2	3	3	2	2	14	0	25	2	1	1	0	16	1
26	2	1	2	1	3	3	2	1	15	0	26	1	0	1	1	10	0
27	1	1	0	1	1	2	2	2	10	0	27	2	2	1	2	17	1
28	2	2	1	1	2	2	2	2	14	0	28	1	1	1	2	21	1
29	0	1	2	2	2	1	1	0	9	0	29	1	1	1	2	17	1
30	1	1	1	2	1	5	5	5	21	2	30	2	2	4	3	14	1
mean						16.7	0.6	mean				12.8	0.6	mean		13.6	0.6

**Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T)**

Day	K		Sum	C	Day	K		Sum	C	Day	K		Sum	C		
1	1	2	2	2	2	1	1	1	0	0	0	0	1	2	1	
2	1	2	3	1	1	1	1	1	1	0	2	2	2	2	1	
3	2	2	2	1	2	2	2	1	4	0	3	1	1	1	1	
4	2	1	1	2	3	2	1	2	0	1	1	1	1	1	2	
5	1	1	1	1	1	0	1	7	0	5	2	3	5	4	4	
6	1	2	2	2	1	1	1	1	1	6	5	5	2	2	2	
7	2	2	2	2	0	2	2	1	3	7	3	3	1	2	0	
8	0	2	1	1	2	3	4	5	8	2	2	1	1	2	2	
9	3	2	4	3	3	2	2	2	1	9	1	1	0	1	0	
10	1	4	3	2	1	2	3	2	2	10	1	1	1	1	0	
11	2	2	3	...	3	3	1	1	1	11	2	2	1	1	1	
12	3	2	2	2	2	1	1	1	1	12	1	1	1	1	2	
13	2	2	1	2	0	2	0	1	3	13	2	1	3	3	0	
14	2	2	1	2	1	0	0	0	4	14	3	3	3	4	2	
15	1	2	1	1	1	0	1	1	0	15	2	3	2	2	2	
16	2	2	1	2	2	1	1	2	1	16	1	1	1	1	1	
17	1	1	2	3	3	2	1	2	5	17	2	2	3	3	3	
18	3	3	3	2	3	2	1	2	3	18	1	1	2	4	1	
19	1	1	2	2	1	1	1	2	3	19	1	1	2	3	2	
20	1	2	3	4	1	2	1	1	2	20	1	2	3	1	0	
21	1	2	2	2	1	0	1	1	1	21	1	2	1	1	2	
22	2	2	2	1	2	1	2	2	2	22	1	3	1	2	0	
23	1	1	1	5	5	4	4	4	4	23	1	1	3	2	1	
24	2	5	6	4	4	4	2	3	3	24	1	0	1	2	0	
25	1	1	2	3	3	1	1	1	1	25	0	0	0	2	1	
26	1	2	2	0	2	1	1	1	0	26	1	2	1	1	2	
27	2	2	2	2	3	1	1	2	2	27	1	1	2	2	2	
28	...	...	...	...	28	1	1	0	0	28	1	1	1	2	1	
29	2	2	1	1	3	1	1	2	2	29	1	2	2	1	0	
30	1	1	1	1	2	0	1	2	2	30	1	0	0	1	0	
31	2	2	2	2	2	2	1	2	1	31	1	1	1	1	1	
mean					14.0	0.6	mean			13.4	0.6	mean			15.1	0.8

October, 1933

November, 1933

December, 1933

Day	K		Sum	C	Day	K		Sum	C	Day	K		Sum	C	
1	1	1	0	0	1	1	1	1	1	1	1	0	1	2	0
2	2	2	1	2	1	1	0	11	0	2	1	1	2	2	1
3	1	1	1	0	1	2	2	2	2	3	1	3	2	1	1
4	1	2	1	1	2	3	1	2	0	4	2	2	3	3	2
5	2	2	3	4	4	2	3	3	3	2	2	2	2	3	2
6	.....	.....	.....	.....	6	2	2	4	2	5	5	3	4	2	3
7	.....	.....	.....	.....	7	3	2	3	5	4	4	4	4	2	2
8	.....	.....	.....	.....	8	4	3	4	5	5	3	3	3	1	0
9	3	2	3	3	2	2	2	3	3	3	3	2	1	1	1
10	1	1	2	3	2	3	3	1	1	10	2	3	2	3	2
11	1	2	3	2	3	2	2	3	4	4	2	2	1	1	1
12	2	2	2	3	3	2	1	1	11	1	11	2	2	1	1
13	3	4	4	3	3	2	1	12	2	2	1	2	2	2	2
14	1	1	1	4	4	3	2	3	1	13	1	1	1	1	1
15	1	1	2	3	4	3	3	1	1	14	1	2	1	2	0
16	1	1	1	1	3	3	1	1	1	15	2	1	1	1	0
17	1	2	2	2	2	2	1	1	1	16	1	1	1	1	0
18	1	1	1	1	2	2	2	2	1	17	1	1	1	1	0
19	2	4	5	4	4	3	2	1	1	18	1	2	1	2	3
20	1	9	2	5	4	3	2	1	1	19	1	2	2	2	3
21	2	0	1	1	1	0	1	1	1	20	1	1	1	1	1
22	1	1	1	1	1	0	0	20	1	21	1	1	1	1	1
23	1	1	1	1	1	0	0	21	1	21	1	1	1	1	1
24	1	1	1	1	1	0	0	21	1	22	1	1	1	1	1
25	1	1	1	1	1	0	0	22	1	22	1	1	1	1	1
26	1	1	1	1	1	0	0	22	1	23	1	1	1	1	1
27	1	1	1	1	1	0	0	23	1	23	1	1	1	1	1
28	1	1	1	1	1	0	0	23	1	24	1	1	0	1	0
29	1	1	1	1	1	0	0	24	1	24	1	1	0	1	0
30	1	1	1	1	1	0	0	24	1	25	1	1	1	2	1
31	1	1	1	1	1	0	0	25	1	25	1	1	1	2	1
mean					13.1	0.4	mean				14.9	0.6	mean		
														12.5	0.3

### 植岡における抽球磁気變化度K及Cの値

**Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)**

April, 1942

May, 1942

June, 1942

Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)

July, 1942

August, 1942

September, 1942

Day	K	Sum	C	Day	K	Sum	C	Day	K	Sum	C
1	2 3 4 4 3 2 2 2	22	1	1	2 2 1 1 1 1 1 2	11	0	1	1 0 1 4 5 2 3 1	17	1
2	1 2 1 1 1 2 2 1	11	0	2	1 2 3 2 3 2 2 2	17	1	2	2 2 4 3 3 2 3 2	21	1
3	2 1 1 2 2 1 1 0	10	0	3	2 2 2 2 2 2 2 1	15	1	3	2 3 2 3 2 2 0 0	14	1
4	1 1 1 0 1 0 1 0	5	0	4	2 2 3 1 1 2 2 0	13	1	4	2 2 2 3 4 3 2 1	19	1
5	1 1 1 1 2 3 2 2	13	0	5	2 2 2 2 1 2 2 2	15	1	5	1 2 2 3 3 3 2 1	17	1
6	1 3 2 3 3 2 2 2	18	1	6	2 1 2 3 3 4 2 2	19	1	6	1 2 4 4 4 4 3 4	26	1
7	2 1 1 2 2 2 2 2	14	1	7	2 2 4 4 3 2 2 2	21	1	7	1 3 3 3 3 3 2 2	20	1
8	2 3 5 4 4 3 3 2	26	1	8	2 2 2 1 0 0 0 1	8	0	8	3 2 3 3 2 1 1 1	16	1
9	3 1 1 2 3 2 2 2	16	1	9	1 2 2 3 3 3 2 2	18	1	9	1 2 2 3 2 1 2 1	14	0
10	2 2 3 3 3 2 2 2	20	1	10	2 3 3 3 4 3 4 2	24	1	10	2 2 1 2 3 2 1 1	14	0
11	4 5 5 5 3 3 3 3	31	1	11	2 3 3 3 2 2 0 1	16	1	11	1 1 1 3 3 4 3 4	20	1
12	3 3 3 5 3 2 3 3	25	1	12	2 2 2 3 3 2 2 2	18	1	12	3 5 6 5 4 4 3 3	33	1
13	3 3 3 3 2 1 2 1	18	1	13	1 2 2 0 0 0 0 1	6	0	13	3 3 3 4 2 4 3 3	25	1
14	2 2 3 3 2 2 2 3	19	1	14	2 0 2 2 2 1 0 0	9	0	14	3 4 3 4 3 3 3 3	26	1
15	3 2 4 5 3 3 3 4	27	1	15	0 0 1 2 2 3 4 3	15	1	15	2 4 4 3 4 3 1	24	1
16	2 2 3 3 3 2 2 3	20	1	16	3 4 3 3 3 3 4 4	27	1	16	2 3 2 3 3 3 2 4	22	1
17	3 3 3 3 2 3 2 1	20	1	17	3 3 3 4 3 4 2 3	25	1	17	2 3 2 5 5 4 3 3	27	1
18	1 2 2 3 2 2 1 1	14	1	18	1 2 4 5 4 2 3 3	24	1	18	3 3 3 3 2 3 3 3	23	1
19	2 1 1 2 2 2 1 0	11	0	19	2 3 4 4 4 3 3 4	27	1	19	2 4 3 4 3 3 3 3	25	1
20	1 3 4 6 3 3 3 3	26	1	20	2 2 3 4 4 2 3 2	22	1	20	2 3 2 4 4 3 2 3	23	1
21	3 4 3 3 2 1 2 2	20	1	21	2 3 2 2 3 2 1 1	16	1	21	3 3 4 4 5 5 3 2	29	1
22	2 1 2 2 3 1 2 1	14	1	22	2 3 3 2 1 2 1 2	16	1	22	2 4 3 4 3 2 2 3	23	1
23	2 2 3 2 1 3 2 2	17	1	23	3 3 3 3 4 5 4 4	29	1	23	2 1 2 2 3 1 1 2	14	0
24	1 3 2 2 2 3 2 1	16	1	24	2 3 2 2 2 3 3 3	20	1	24	2 2 2 2 1 1 2 2	14	0
25	2 3 3 5 5 2 3 3	26	1	25	2 5 3 3 2 2 2 2	21	1	25	1 1 1 1 2 1 1 0	8	0
26	2 2 3 2 2 3 3 3	20	1	26	2 3 3 2 2 2 2 2	18	1	26	1 1 1 2 2 3 2 1	13	0
27	3 5 4 3 3 3 3 3	27	1	27	2 2 4 4 3 2 1 0	18	1	27	1 2 2 2 3 3 2 2	17	0
28	3 4 3 3 .....	1	28	1 2 2 2 1 1 0 0	9	0	28	1 2 1 2 3 2 1 1	13	0	
29	2 3 3 3 2 2 1 2	18	1	29	0 1 1 1 2 1 0 1	7	0	29	2 2 1 3 3 2 2 1	16	0
30	3 3 3 3 3 2 2 3	22	1	30	1 1 1 2 3 3 4 1	16	1	30	1 1 2 3 2 2 2 0	13	0
31	2 3 2 3 2 2 2 1	17	0	31	0 1 2 3 3 2 2 1	14	1				
mean		18.8	0.8	mean		17.2	0.8	mean		19.5	0.7

October, 1942

November, 1942

December, 1942

Day	K	Sum	C	Day	K	Sum	C	Day	K	Sum	C
1	1 0 0 0 1 2 1 1	6	0	1	2 2 3 4 2 2 2 1	18	1	1	1 1 1 1 3 2 2 1	12	0
2	3 3 5 4 5 4 5 3	32	2	2	2 2 2 4 3 4 3 0	20	1	2	1 2 2 1 1 1 2 1	11	0
3	3 5 4 5 4 4 3 2	30	1	3	1 0 2 2 3 3 2 1	14	1	3	0 1 0 1 1 2 1 2	8	0
4	2 4 3 4 5 3 2 2	25	1	4	1 2 3 3 3 2 2 1	17	1	4	2 2 3 1 4 4 2 1	19	1
5	2 3 4 4 5 3 2 2	25	1	5	0 1 2 1 3 2 3 4	16	1	5	1 1 1 1 1 2 1 0	8	0
6	2 2 2 1 1 2 2 1	13	0	6	23(x)2 1 1 3 1 2	15(14)	0	6	0 1 0 1 2 2 2 1	9	0
7	1 2 3 2 3 3 1 1	16	1	7	1 3 2 2 3 2 2 2	17	1	7	1 1 1 3 3 4 3 3	19	1
8	2 0 1 2 4 2 3 0	14	0	8	2 3 4 3 4 2 3 2	23	1	8	2 2 3 2 3 2 5 3	22	1
9	1 1 1 2 3 3 2 1	14	0	9	2 1 1 1 2 2 2 1	12	0	9	2 2 3 3 5 5 4 3	27	1
10	1 2 3 3 2 2 2 2	17	1	10	2 1 2 2 4 3 2 2	18	1	10	4 3 4 3 3 3 2 2	24	1
11	2 1 1 2 3 3 4 2	18	1	11	2 2 2 2 3 1 2 2	16	1	11	1 3 2 4 3 2 2 3	20	1
12	3 3 3 6 5 3 3 3	29	1	12	1 2 3 2 3 2 2 1	16	1	12	2 2 4 4 4 2 1 1	20	1
13	3 2 3 4 4 3 3 3	25	1	13	1 2 2 3 4 4 2 2	20	1	13	0 0 0 2 1 3 2 0	8	0
14	2 3 2 4 4 4 4 3	26	1	14	2 3 3 3 2 3 3 2	21	1	14	1 2 2 2 2 3 1 1	14	1
15	2 4 3 2 3 3 3 2	22	1	15	3 2 1 1 3 2 2 2	16	0	15	1 2 1 1 2 3 2 2	14	0
16	3 2 2 3 5 3 3 2	23	1	16	2 2 1 1 1 1 2 1	11	0	16	1 1 2 3 2 2 1 2	14	0
17	2 3 2 2 2 2 2 1	16	1	17	1 2 2 3 3 2 2 2	17	0	17	0 1 1 1 2 2 1 1	9	0
18	2 2 3 3 3 4 3 3	23	1	18	3 1 3 3 3 3 2	21	1	18	0 0 3 1 1 2 0 0	7	0
19	2 3 4 3 5 3 3 2	25	1	19	1 2 1 3 1 1 2 2	13	0	19	1 0 1 1 1 1 1 1	7	0
20	2 3 2 4 5 4 2 0	22	1	20	2 2 2 5 2 2 5 2	22	1	20	2 2 2 2 1 3 2 3	17	1
21	1 1 1 2 3 3 1 1	13	1	21	2 2 3 2 2 2 1	16	1	21	4 4 3 4 5 4 3 3	30	1
22	1 1 1 2 2 1 1 0	9	0	22	1 1 2 1 2 1 1 2	11	0	22	3 2 3 4 3 2 2 0	19	1
23	1 0 2 2 3 2 1 1	12	0	23	3 2 2 3 4 4 3 5	26	1	23	2 2 5 5 4 5 4 2	29	1
24	0 0 1 2 2 2 1 0	8	0	24	4 5 5 6 4 4 3 2	33	2	24	1 1 3 4 4 4 2 3	22	1
25	2 2 3 3 3 2 2 1	18	1	25	3 3 2 5 4 4 3 3	27	1	25	4 3 3 3 3 3 2 2	23	1
26	1 2 2 1 1 1 2 1	11	0	26	4 4 3 4 4 3 4 4	30	1	26	2 3 2 3 5 4 3 2	24	1
27	1 1 1 1 2 3 1 1	11	0	27	1 1 4 4 4 4 2 3	22	1	27	1 1 1 1 2 2 2 1	11	0
28	1 1 0 3 5 6 6 4	26	1	28	1 2 2 3 4 4 4 3	23	1	28	2 1 1 1 2 2 1 0	10	0
29	4 4 6 6 6 4 4 4	38	2	29	3 2 3 4 3 4 3 1	23	1	29	0 0 0 2 2 3 1 0	8	0
30	3 4 5 4 4 4 4 3	31	1	30	1 1 3 2 3 3 2 1	16	0	30	0 0 0 0 0 0 0 0	0	0
31	3 2 3 4 4 3 3 2	24	1			31	0 0 0 1 0 0 0 0			1	0
mean		20.1	0.8	mean		19.0	0.8	mean		15.0	0.5

### 柿岡における地球磁気變化度K及Cの値

**Table 1. Three-hour-Jangle indices, K, and Character figures, C, Kakioka (G.M.T.)**

Day	K	Sum	C	Day	K	Sum	C	Day	K	Sum	C
1	0 0 0 0 2 2 2 2	8	0	1	1 1 0 0 2 2 1 0	7	0	1	0 3 1 2 4 3 3 2	18	1
2	1 1 1 1 2 3 2 0	11	1	2	1 1 2 1 2 3 1 1	12	1	2	3 2 6 4 4 2 2 3	26	2
3	0 2 3 3 3 4 2 3	20	1	3	1 2 2 3 3 2 3 2	18	0	3	0 1 3 5 3 3 3 3	21	1
4	3 2 2 5 5 5 4 3	29	1	4	2 2 2 3 3 2 2 1	17	1	4	2 2 4 4 5 3 3 3	26	1
5	2 3 3 2 2 3 2 3	20	1	5	1 1 2 3 3 3 3 1	17	0	5	3 3 4 3 2 4 3 2	24	1
6	2 2 3 2 2 3 2 2	18	1	6	2 1 3 3 2 3 3 2	19	1	6	2 2 2 1 3 3 2 1	16	1
7	1 1 1 1 1 1 1 0	7	0	7	0 1 1 1 1 2 2 1	9	0	7	1 1 0 1 2 2 1 1	9	0
8	1 2 1 0 2 2 2 1	11	0	8	0 1 2 3 3 2 3 1	15	1	8	1 1 2 3 3 2 2 1	15	1
9	2 2 4 4 2 1 2 1	18	1	9	3 3 3 2 2 2 2 1	18	1	9	1 1 2 2 3 2 2 2	15	1
10	1 2 1 2 1 2 2 3	14	1	10	1 0 1 1 3 2 2 0	10	1	10	1 1 0 1 2 3 1 1	10	0
11	1 2 1 2 1 2 1 1	11	1	11	4 3 3 2 2 1 1 1	17	1	11	1 0 0 0 3 5 5 3	17	1
12	1 2 3 1 2 2 1 1	13	1	12	1 1 0 3 3 1 1 2	12	1	12	4 5 3 3 4 4 3 2	28	1
13	2 1 1 2 1 2 1 0	10	0	13	4 3 4 3 3 2 2 1	22	1	13	1 0 0 0 1 1 1 2	6	0
14	1 1 1 1 0 0 0 0	4	0	14	2 2 2 3 2 1 1 1	14	1	14	1 2 2 3 1 2 0 0	11	1
15	0 0 1 1 1 2 1 2	8	0	15	1 1 2 3 2 1 2 0	12	1	15	.....	...	...
16	0 2 1 2 2 3 2 1	13	1	16	1 0 1 1 0 4 3 2	12	1	16	2 3 3 6 4 3 4 2	27	2
17	4 3 4 6 4 4 4 3	32	2	17	4 5 5 6 4 3 4 2	33	2	17	1 1 2 4 3 2 1 1	15	1
18	2 2 3 3 2 2 3 1	18	1	18	3 2 4 3 3 2 1 2	20	1	18	1 1 3 2 1 2 2 1	13	1
19	2 2 2 1 2 3 3 1	16	1	19	3 2 3 3 3 3 1 0	18	1	19	1 1 3 2 2 3 3 3	18	1
20	2 3 3 3 3 4 6 5	29	1	20	0 2 1 2 2 2 1 2	12	1	20	2 3 4 4 3 4 4 2	26	1
21	2 3 4 4 5 3 2 3	26	1	21	0 0 0 0 1 1 1 1	4	0	21	1 2 2 4 3 3 2 2	19	1
22	4 2 3 3 4 5 4 2	27	1	22	1 0 2 3 3 2 2 2	15	1	22	2 2 2 4 3 3 4 4	24	1
23	2 3 3 2 2 3 1 1	17	1	23	2 2 3 3 3 3 2 2	20	1	23	4 3 4 5 3 3 3 1	26	1
24	2 2 1 2 3 3 2 1	16	1	24	2 2 2 2 2 2 2 2	16	1	24	1 1 3 2 3 3 2 0	15	1
25	1 1 1 2 2 2 0 0	9	0	25	2 1 0 1 2 4 5 3	18	1	25	1 2 0 1 2 0 1 0	7	0
26	2 2 4 4 3 3 0 1	19	1	26	3 3 3 3 2 4 4 3	25	1	26	0 0 1 0 1 2 0 1	5	0
27	1 2 2 2 3 3 1 0	14	1	27	1 3 2 3 3 2 2 2	18	1	27	1 0 0 0 1 2 1 0	5	0
28	0 1 2 5 4 4 2 0	18	0	28	1 1 1 2 2 2 1 0	10	0	28	0 1 1 0 1 1 1 0	6	0
29	0 0 0 2 2 1 1 1	7	0					29	0 1 2 3 3 4 4 5	24	1
30	2 2 1 1 2 2 0 1	11	0					30	3 3 3 3 3 3 3 2	23	1
31	1 1 1 2 2 3 2 1	13	0					31	2 2 2 1 3 3 3 3	19	1
mean		15.7	0.7	mean		15.7	0.8	mean		17.1	0.8

April, 1943

May, 1943

June, 1943

October, 1943

November, 1943

December, 1943

### 柿岡における地球磁気變化度K及Cの値

April, 1944

May, 1944

June, 1944

**Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)**

October, 1944

November, 1944

December, 1944

Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)

January, 1945

February, 1945

March, 1945

Day	K		Sum	C	Day	K		Sum	C	Day	K		Sum	C		
1	1	1	2	3	3	2	3	2	2	17	1	1	1	1	1	
2	1	1	2	2	2	3	2	1	1	14	1	2	1	1	1	
3	1	1	1	3	2	2	3	1	1	14	1	3	2	2	1	
4	0	0	0	1	2	2	3	2	1	10	1	4	1	1	0	
5	1	1	1	2	2	1	1	1	0	10	0	5	3	5	4	
6	1	1	1	3	2	1	2	0	3	11	1	6	2	1	3	
7	1	2	1	3	2	0	1	2	1	12	1	7	1	2	3	
8	0	1	1	1	3	2	0	0	8	8	2	1	3	3	2	
9	1	1	1	1	2	3	3	4	1	16	1	9	1	1	1	
10	3	4	4	4	4	3	2	0	0	24	1	10	1	1	2	
11	0	0	1	0	1	1	1	1	0	5	0	11	1	3	3	
12	2	0	2	1	2	2	1	1	0	12	1	0	12	3	3	
13	1	2	2	1	1	0	0	1	0	8	1	13	0	2	3	
14	2	1	1	2	2	1	2	1	0	13	1	14	1	2	1	
15	3	3	4	4	4	4	5	2	0	29	2	15	2	5	3	
16	1	2	2	3	1	2	1	1	1	13	1	16	1	2	2	
17	2	2	1	4	3	3	3	1	1	19	1	17	1	1	2	
18	0	0	0	0	1	2	2	2	1	7	0	18	0	1	2	
19	1	2	2	1	2	3	2	2	1	15	0	19	0	2	1	
20	1	2	2	3	3	2	1	0	1	14	1	20	0	0	1	
21	1	1	2	1	1	1	1	0	0	10	0	21	0	2	2	
22	1	1	0	1	1	2	1	0	0	7	0	22	0	0	1	
23	0	1	0	1	1	0	0	0	0	3	0	23	0	1	0	
24	0	0	1	0	1	1	0	0	0	4	0	24	0	1	2	
25	0	0	0	0	0	1	0	0	0	1	0	25	0	1	2	
26	0	1	2	2	3	3	3	1	1	15	1	26	1	4	6	
27	1	1	1	2	3	2	2	1	0	13	0	27	1	2	2	
28	2	2	1	1	2	4	5	4	2	21	1	28	1	3	5	
29	4	5	4	2	4	5	4	3	1	31	2	29	1	3	4	
30	1	4	3	3	3	4	1	1	0	20	1	30	0	3	2	
31	1	1	1	1	2	0	0	0	0	7	0	31	0	0	0	
mean						13.0	0.7	mean				14.0	0.8	mean		
															17.9	1.1

April, 1945

May, 1945

June, 1945

Day	K		Sum	C	Day	K		Sum	C	Day	K		Sum	C			
1	1	4	6	5	5	4	3	2	1	30	2	1	2	1	1		
2	3	3	2	2	2	3	2	1	1	18	0	2	3	2	2		
3	1	2	2	1	1	1	1	1	1	10	0	3	2	3	3		
4	13	11	11	3	2	2	1	1	4	14	12	1	1	1	0		
5	1	1	24	3	3	5	3	2	1	22	1	5	2	0	2		
6	2	3	3	4	3	4	2	2	6	23	2	0	1	0	2		
7	3	3	4	1	2	1	3	3	1	19	1	7	0	1	3		
8	3	2	3	4	3	2	1	1	8	19	1	8	1	2	3		
9	2	2	1	0	1	0	0	9	1	6	0	9	1	3	2		
10	0	0	0	1	3	1	1	1	1	7	0	10	1	3	2		
11	1	2	3	6	4	4	2	3	1	25	2	11	1	2	2		
12	2	3	2	3	2	3	4	3	3	22	1	12	0	1	1		
13	1	2	4	4	2	3	2	2	1	20	1	13	1	3	2		
14	3	2	2	3	3	3	2	1	4	21	1	14	1	2	2		
15	2	3	3	4	3	1	2	1	5	19	1	15	0	1	0		
16	1	2	2	3	2	2	2	1	6	15	0	16	2	2	1		
17	1	1	1	1	2	1	0	1	7	8	0	17	1	2	2		
18	0	1	1	2	1	0	1	0	8	7	0	18	1	2	2		
19	2	1	2	3	3	2	2	2	2	18	1	19	1	2	2		
20	2	2	3	4	4	2	2	1	20	20	1	20	1	2	2		
21	1	0	1	1	2	2	2	1	1	10	0	21	2	2	1		
22	1	1	1	2	2	3	1	1	2	13	1	22	1	1	1		
23	2	1	2	4	4	2	3	2	1	22	1	23	1	2	2		
24	2	2	4	3	2	2	3	2	4	20	1	24	0	2	2		
25	2	2	3	3	2	2	1	1	5	16	0	25	2	2	2		
26	0	1	1	1	2	0	0	26	2	14	2	21	2	1	1		
27	1	1	1	0	1	1	2	1	0	8	0	27	2	4	4		
28	0	2	1	1	2	1	2	0	28	10	0	28	1	2	2		
29	1	1	2	2	2	3	3	2	1	16	1	29	1	3	2		
30	1	2	2	4	3	3	2	1	30	20	1	30	1	3	4		
mean						16.1	0.7	mean				15.5	1.0	mean		13.0	0.6

**October, 1945**                    **November, 1945**                    **December, 1945**

Table 1. Three-hour-range indices, K, and Character figures, C. Kakioka (G.M.T.)

January, 1946

February, 1946

March 1946

April, 1946

May, 1946

June, 1946

October, 1946

November, 1946

December, 1946

### 柿岡における地球磁気変化度K及Cの値

Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)

April, 1947

May, 1947

June, 1947

Day	K	Sum	C	Day	K	Sum	C	Day	K	Sum	C
1	2 2 3 3 1 2 1 2	16	1	1	3 4 2 2 3 2 2 1	19	1	1	5 4 3 4 2 1 2 2	23	1
2	1 1 3 3 3 1 1	14	1	2	0 0 0 0 1 1 0 1	3	0	2	2 3 3 2 2 2 1 1	16	1
3	2 3 2 2 1 3 3 3	19	1	3	1 2 2 3 1 1 1 1	12	1	3	4 3 3 3 2 2 2 1	20	1
4	2 2 4 5 4 3 3 4	27	1	4	2 1 2 3 2 1 1 1	13	0	4	2(1)3(2)23 3 3 2 1	19(17)	1
5	3 2 1 1 2 2 2 2	15	1	5	1 3 3 2 1 2 2 1	15	1	5	3(2) 3 6 5 3 3 3 5	31(30)	1
6	4 3 3 4 1 2 2 2	21	1	6	0 0 1 1 2 1 2 2	9	0	6	4 3 3 1 2 1 1 2	17	1
7	1 2 1 1 3 2 1 1	12	0	7	3 2 1 1 0 1 1 1	10	0	7	1 3 2 2 3 2 3 3	19	1
8	0 2 1 3 3 2 1 5	17	0	8	1 1 1 2 0 0 1 1	7	0	8	4 4 3 3 3 3 2 3	24	1
9	4 5 4 4 4 3 2 2	28	1	9	1 0 2 1 0 1 0 0	5	0	9	2 3 3 3 2 3 2 2	20	1
10	3 3 3 2 3 1 1 2	18	1	10	3 3 1 2 2 1 1 1	14	0	10	4 3 3 3 3 2 1 2 2	20	1
11	2 3 3 3 2 3 2 2	20	1	11	12(1)1 2 2 2 2 2	14(13)	1	11	3 1 3 2 2 2 2 2	17	1
12	2 2 2 3 2 2 3 3	19	1	12	2 1 1 3 1 2 1 2	13	1	12	2 3 3 2 2 1 2 2	17	0
13	3 3 3 2 3 1 1 1	17	1	13	2 3 4 3 2 3 3 4	24	1	13	3 3 2 2 2 4 3 5	24	1
14	1 2 2 2 3 2 2 2	16	1	14	3 2 3 4 3 2 2 2	21	1	14	4 5 6 4 5 4 5 3	36	2
15	1 2 3 4 4 2 2 2	20	1	15	4 5 4 4 4 3 3 4	31	1	15	3 4 2 3 3 3 2 3	23	1
16	2 2 3 3 3 3 2 2	20	1	16	4 4 3 3 3 2 2 3	24	1	16	3 2 3 2 3 2 2 3	20	1
17	2 3 3 2 6 5 6 6	33	2	17	2 2 3 3 3 2 2 2	19	1	17	2 5 5 4 4 4 4 3	31	1
18	5 4 3 5 5 4 3 4	33	2	18	3 2 3 2 2 2 2 2	18	1	18	2 4 3 3 3 2 2 2	21	1
19	4 4 4 4 4 3 2 3	28	1	19	3 3 3 3 3 2 1 1	19	1	19	2 3 3 3 1 2 1 2	17	1
20	1 4 4 4 3 2 3 2	23	1	20	0 1 1 2 1 2 2 2	11	0	20	0 3 3 3 2 2 2 1	16	1
21	2 3 3 3 2 2 1 0	16	1	21	2 3 3 2 2 1 0 2	15	1	21	2 3 2 2 2 1 2 2	16	1
22	0 1 1 1 1 0 0 1	5	0	22	1 0 1 0 2 0 0 4	8	0	22	3 3 2 3 2 3 3 3	22	1
23	1 1 0 1 2 2 1 1	9	0	23	4 5 4 3 3 3 2 3	27	1	23	3 2 2 2 2 3 2 1	17	1
24	1 1 0 0 1 0 0 0	3	0	24	4 4 ..... .....	...	2	24	2 2 2 3 3 2 3 3	20	1
25	2 1 1 2 2 4 3 2	17	1	25	3 2 3 3 3 2 2 2	20	1	25	4 3 3 4 3 2 2 3	24	1
26	2 2 2 2 2 3 3 3	19	1	26	2 3 3 3 3 3 3 4	24	1	26	2 3 3 3 3 3 3 3	23	1
27	2 3 2 3 2 3 2 2	19	1	27	3 4 3 2 2 2 2 3	21	1	27	4 2 3 3 2 2 1 2	19	1
28	2 4 3 2 3 2 3 2	21	1	28	3 1 1 2 3 2 3 3	18	1	28	2 3 2 3 3 2 2 3	20	1
29	2 2 3 3 3 1 2 2	18	1	29	1 1 3 4 4 4 3 1	21	1	29	2 2 2 1 1 1 1 2	12	1
30	3 2 2 3 2 2 2 3	19	1	30	2 2 1 1 0 2 1 2	11	0	30	2 2 2 3 2 2 3 1	17	1
		31		1 2 3 3 2 3 3 3	20	1					
mean		18.7	0.9	mean		16.2	0.7	mean		20.7	1.0

Day	K		Sum	C	Day	K		Sum	C	Day	K		Sum	C	
1	2	3	2	2	2	3	3	19	0	1	3	4	4	3	18
2	4	3	3	3	2	2	3	3	23	1	2	2	3	3	18
3	3	3	3	2	1	2	1	16	1	3	2	3	3	3	18
4	1	2	2	1	0	0	0	6	0	4	3	3	4	3	18
5	1	1	2	0	0	1	2	9	0	5	3	3	2	2	1
6	1	3	3	3	3	2	2	19	1	6	2	3	3	3	25
7	3	3	2	1	2	2	2	18	1	7	3	3	3	2	25
8	3	2	3	1	2	2	2	18	1	8	1	2	2	1	25
9	2	3	3	2	2	2	3	20	1	9	2	3	2	2	1
10	3	3	2	3	1	3	2	19	1	10	2	3	2	3	11
11	3	3	3	2	3	3	3	23	1	11	3	3	3	3	22
12	2	3	2	3	3	1	3	20	1	12	4	3	4	5	28
13	2	2	3	2	2	2	3	18	1	13	3	3	3	3	36
14	3	2	2	0	2	2	2	17	0	14	3	3	3	3	36
15	2	3	2	1	2	2	2	17	1	15	2	2	2	5	34
16	2	3	1	1	0	0	0	7	0	16	5	4	3	4	25
17	3	1	1	3	3	7	7	5	30	1	17	4	3	4	4
18	3	4	5	5	5	4	4	34	1	18	5	4	5	4	33
19	9	3	3	4	3	2	3	3	24	1	19	4	4	3	28
20	4	4	3	3	5	3	3	27	1	20	4	3	5	3	27
21	3	4	2	3	2	1	3	20	1	21	4	3	4	4	23
22	1	1	3	5	3	3	2	21	1	22	2	4	3	8	29
23	3	3	3	4	3	2	3	24	1	23	6	5	4	3	33
24	3	4	2	2	3	2	2	21	1	24	2	3	3	4	33
25	3	4	4	3	3	3	2	25	1	25	4	3	4	4	36
26	3	3	4	3	3	2	3	24	1	26	3	3	3	3	25
27	3	4	4	3	3	3	2	25	1	27	3	3	4	2	0
28	3	3	3	3	2	1	1	19	0	28	2	2	2	2	19
29	3	4	3	3	2	2	2	22(22)	1	29	3	3	3	2	17
30	1	1	3	2	1	1	2	22(22)	0	30	3	3	2	1	16
31	3	2	2	2	3	2	2	19(19)	1	31	2	2	1	3	1
mean								19.9	0.8	mean					24.5
											23.8	0.9	mean		0.9

October, 1947

November, 1947

December, 1947

### 柿岡における地球磁気変化度K及Cの値

Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)

January, 1948

February, 1948

March, 1948

April, 1948

May, 1948

June, 1948

October, 1948

November, 1948

December, 1948

April, 1949

May, 1949

June, 1949

October, 1949

November, 1949

December, 1949

**Table 1. Three-hour-range indices, K, and Character figures, C, Kakioka (G.M.T.)**

---

April, 1950

May, 1950

June, 1950

October, 1950

November, 1950

December, 1950

Table 2. Mean Scale-values of Variometers for H and Z  
( $\gamma/mm$ )

	1932		1933		1942		1943		1944	
	H	Z	H	Z	H	Z	H	Z	H	Z
Jan.	6.40	3.79	2.64	4.82	3.79	4.33	3.76	4.32	3.78	4.88
Feb.	6.43	3.80	2.66	4.83	3.82	4.31	3.73	4.29	3.72	4.76
Mar.	6.45	3.82	2.57	4.72	3.69	4.20	3.65	4.45	3.63	4.69
Apr.	6.22	3.96	2.55	4.63	3.82	4.16	3.81	4.96	3.74	4.62
May	6.02	4.35	2.97	4.52	3.72	4.13	3.79	4.89	3.79	5.05
June	5.97	4.43	2.75	4.59	3.77	4.36	3.79	4.85	3.81	4.91
July	2.07	4.65	3.57	4.51	3.72	4.73	3.70	4.79	3.76	4.91
Aug.	2.67	4.61	2.79	4.79	3.94	4.83	3.88	4.85	3.70	4.98
Sept.	3.97	4.63	2.69	5.23	3.90	4.83	3.90	4.95	3.84	5.07
Oct.	4.70	4.48	2.78	5.61	3.93	4.49	3.87	5.04	3.85	5.21
Nov.	3.71	4.56	2.72	5.97	3.86	4.50	3.71	5.15	3.84	5.40
Dec.	2.62	4.78	2.67	6.89	3.77	4.31	3.85	4.92	3.79	5.38

Table 2. Mean scale-values of Variometers for H and Z (continued)  
( $\gamma/mm$ )

	1945		1946		1947		1948		1949		1950	
	H	Z	H	Z	H	Z	H	Z	H	Z	H	Z
Jan.	3.87	5.02	3.87	5.21	3.83	5.48	3.77	6.20	3.84	3.45	2.72	4.19
Feb.	3.90	4.98	3.78	5.57	3.84	5.50	4.52	6.29	2.84	3.39	2.68	4.09
Mar.	3.75	4.82	3.69	5.58	3.63	5.34	4.91	6.27	2.86	3.40	2.73	3.98
Apr.	3.74	4.55	3.77	5.66	3.75	5.16	4.96	5.73	2.81	3.33	2.91	3.88
May	3.67	4.60	3.76	5.47	3.82	5.35	3.22	5.58	2.88	3.13	2.85	3.59
June	3.77	4.51	3.83	5.44	3.97	5.61	1.90	5.35	2.99	3.80	2.83	3.43
July	3.92	4.60	3.80	5.47	3.73	5.45	2.10	5.38	3.02	3.75	2.84	3.41
Aug.	3.72	4.65	3.75	5.32	3.67	5.51	2.09	4.96	3.11	3.82	2.96	3.46
Sept.	3.81	4.87	3.71	5.51	3.77	5.49	2.25	4.93	2.92	3.90	2.99	3.56
Oct.	3.82	5.07	3.81	5.64	3.77	5.53	3.05	5.07	2.79	4.02	2.98	4.26
Nov.	3.81	5.13	3.83	5.92	3.69	5.73	2.91	5.18	2.92	4.13	2.98	4.37
Dec.	3.91	5.43	3.82	5.73	3.85	5.97	2.83	4.23	2.90	3.99	2.71	4.46