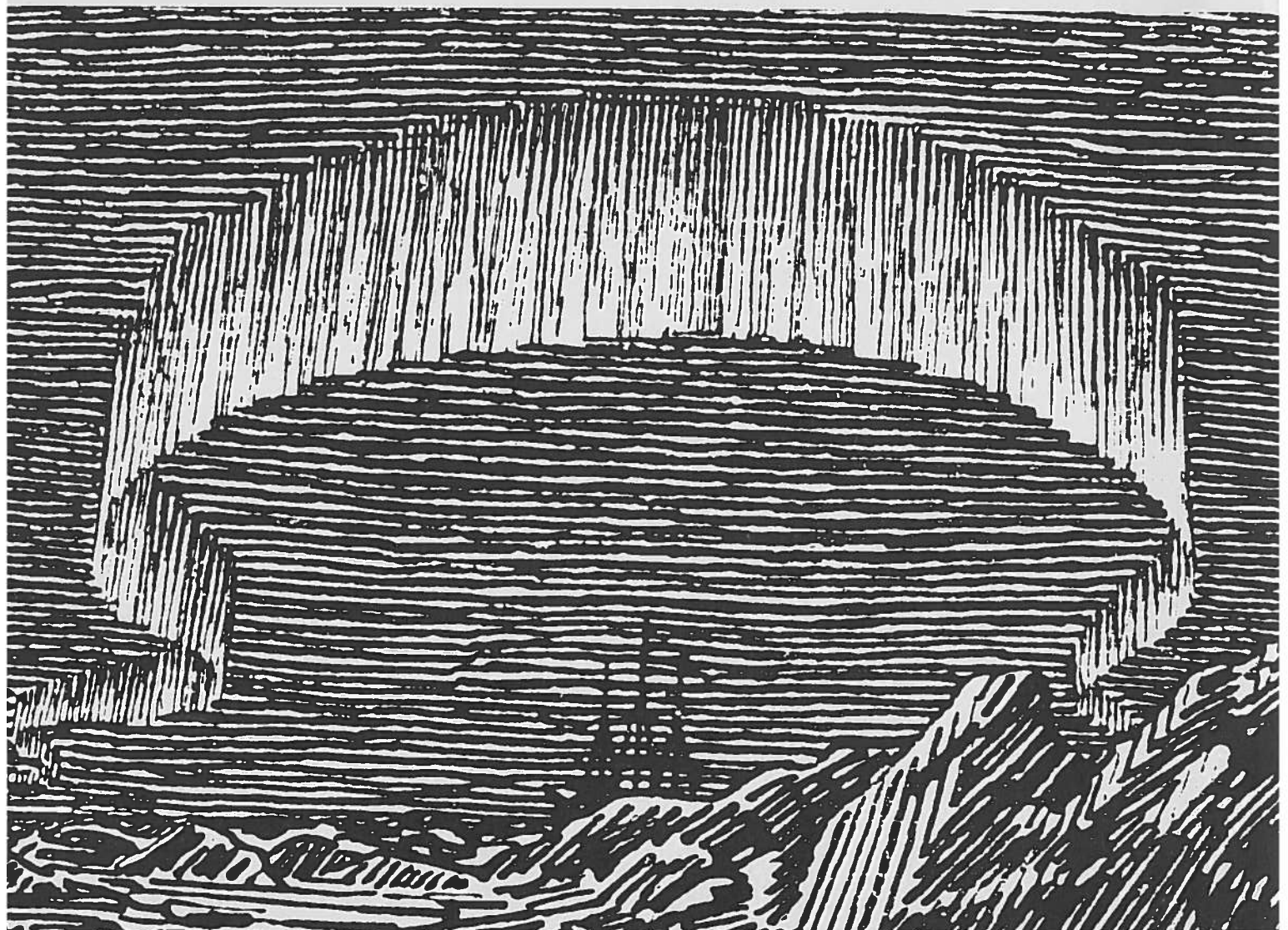


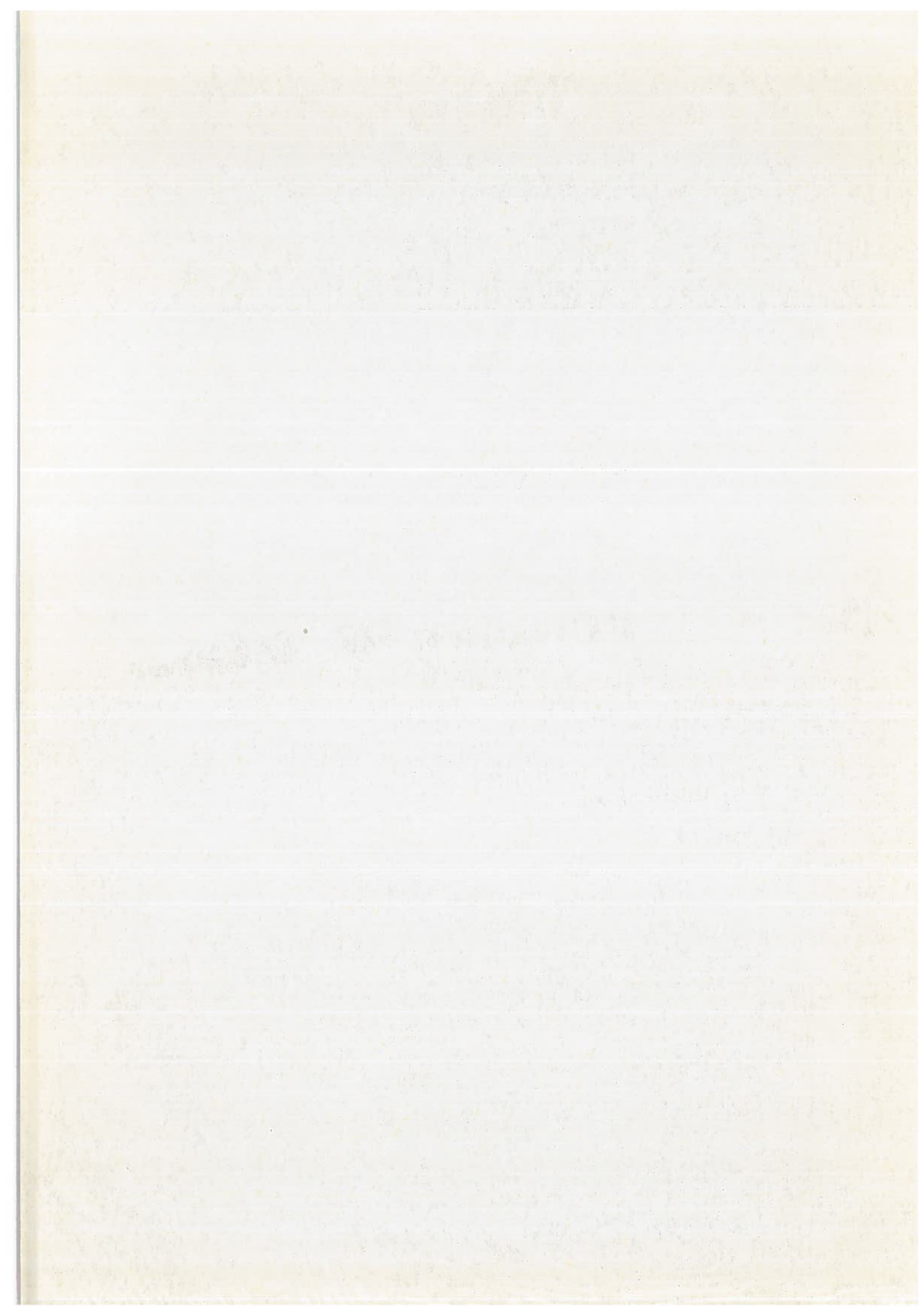
THE AURORAL OBSERVATORY

TROMSØ

NORWAY

MAGNETIC OBSERVATIONS 1969





THE AURORAL OBSERVATORY AT TROMSØ

($\varphi = 69^{\circ} 39'.8$ N, $\lambda = 18^{\circ} 56'.9$ E Gr.)

MAGNETIC OBSERVATIONS 1969

GENERAL REMARKS

This magnetic yearbook is a continuation of the earlier publication from The Norwegian Institute for Cosmic Physics. The last yearbook in the earlier series had no. 56.

Following tables are printed:

Hourly mean values of the components D. H. Z.

The monthly means of estimated quiet hourly values.

K-indices and tables of special geomagnetic events, i. e.:

Sudden Storm Commencements (ssc)

Sudden Impulses (si), Bays (b, bp, bs, bps)

Pulsations (pc, pi, pg)

The following recording sets are in operation:

Normal (Bamberg, 20 mm/h)

D: 4,75 γ /mm = 1,45 min/mm

H: 5,28 γ /mm

Z: 7,03 γ /mm

Storm (La Cour, 20 mm/h)

D: 9,80 γ /mm = 3,0 min/mm

H: 22,22 γ /mm

Z: 20,17 γ /mm

Pulsation (Grenet, 6 mm/min)

Copies of the registrations are available, preferably on 35 mm film.

TROMSØ, DECLINATION, D=0 DEG. E * TABULAR QUANTITIES EXPRESSED IN TENTH OF MINUTES.
HOURLY MEAN VALUES

JULY 1969

Table of hourly mean values for Tromsø in July 1969. Columns represent days of the month and numerical values. Includes a MEAN row at the bottom.

TROMSØ, DECLINATION, D=0 DEG. E * TABULAR QUANTITIES EXPRESSED IN TENTH OF MINUTES.
HOURLY MEAN VALUES

AUGUST 1969

Table of hourly mean values for Tromsø in August 1969. Columns represent days of the month and numerical values. Includes a MEAN row at the bottom.

TROMSØ, DECLINATION, D=0 DEG. E * TABULAR QUANTITIES EXPRESSED IN TENTH OF MINUTES.
HOURLY MEAN VALUES

SEPTEMBER 1969

Table of hourly mean values for Tromsø in September 1969. Columns represent days of the month and numerical values. Includes a MEAN row at the bottom.

TROMSØ. HORIZONTAL INTENSITY. H=11200+TABULAR QUANTITIES EXPRESSED IN GAMMA, HOURLY MEAN VALUES

JANUARY 1969

Table with 31 rows (Day 1-31) and 32 columns of hourly intensity values for Tromsø in January 1969. Includes a 'MEAN' row at the bottom.

TROMSØ. HORIZONTAL INTENSITY. H=11200+TABULAR QUANTITIES EXPRESSED IN GAMMA, HOURLY MEAN VALUES

FEBRUARY 1969

Table with 28 rows (Day 1-28) and 32 columns of hourly intensity values for Tromsø in February 1969. Includes a 'MEAN' row at the bottom.

TROMSØ. HORIZONTAL INTENSITY. H=11200+TABULAR QUANTITIES EXPRESSED IN GAMMA, HOURLY MEAN VALUES

MARCH 1969

Table with 31 rows (Day 1-31) and 32 columns of hourly intensity values for Tromsø in March 1969. Includes a 'MEAN' row at the bottom.

TROMSØ, VERTICAL INTENSITY, Z=51200+TABULAR QUANTITIES EXPRESSED IN GAMMA,
HOURLY MEAN VALUES

APRIL 1969

Table with 30 rows (DAY 1-30) and 29 columns of numerical data representing vertical intensity. Includes a 'MEAN' row at the bottom.

TROMSØ, VERTICAL INTENSITY, Z=51200+TABULAR QUANTITIES EXPRESSED IN GAMMA,
HOURLY MEAN VALUES

MAY 1969

Table with 31 rows (DAY 1-31) and 29 columns of numerical data representing vertical intensity. Includes a 'MEAN' row at the bottom.

TROMSØ, VERTICAL INTENSITY, Z=51200+TABULAR QUANTITIES EXPRESSED IN GAMMA,
HOURLY MEAN VALUES

JUNE 1969

Table with 30 rows (DAY 1-30) and 29 columns of numerical data representing vertical intensity. Includes a 'MEAN' row at the bottom.

TROMSØ, VERTICAL INTENSITY, Z=51200+TABULAR QUANTITIES EXPRESSED IN GAMMA,
HOURLY MEAN VALUES

OCTOBER 1969

Table with columns for DAY (1-31) and 31 columns of hourly mean values. Values range from approximately -15 to 128. A MEAN row at the bottom summarizes the daily averages.

TROMSØ, VERTICAL INTENSITY, Z=51200+TABULAR QUANTITIES EXPRESSED IN GAMMA,
HOURLY MEAN VALUES

NOVEMBER 1969

Table with columns for DAY (1-30) and 31 columns of hourly mean values. Values range from approximately -15 to 183. A MEAN row at the bottom summarizes the daily averages.

TROMSØ, VERTICAL INTENSITY, Z=51200+TABULAR QUANTITIES EXPRESSED IN GAMMA,
HOURLY MEAN VALUES

DECEMBER 1969

Table with columns for DAY (1-31) and 31 columns of hourly mean values. Values range from approximately -15 to 218. A MEAN row at the bottom summarizes the daily averages.

TRMSØ, DECLINATION, D=0 DEG. E + TABULAR QUANTITIES EXPRESSED IN TENTH OF MINUTES,
QUIET MEAN VALUES.

JANUARY 1969																								
-5	-2	2	5	1	8	5	-0	-6	-13	-20	-24	-22	-18	-14	-10	-6	-2	-1	-1	-0	-1	-5	-9	-5
FEBRUARY 1969																								
-9	-4	0	6	1	14	16	20	15	-6	-16	-24	-23	-21	-15	-18	-12	-15	-6			-12	-6	-12	-2
MARCH 1969																								
0	6	10	19	24	33	40	45	40	16	-13	-35	-49	-29	-24	-9	-5	-22	-26	-18	-14	-12	-9	-8	-4
APRIL 1969																								
-14	3	22	35	4	52	53	49	17	-7	-33	-68	-93	-91	-69	-46	-47	-48	-52	-54	-53	-36	-29	-22	-29
MAY 1969																								
10	36	54	63	6	66	61	53	40	-12	-55	-90	-103	-96	-75	-58	-50	-52	-48	-60	-55	-40	-24	-19	-24
JUNE 1969																								
16	23	37	44	61	76	81	68	46	-6	-51	-77	-90	-97	-95	-85	-71	-79	-82	-74	-76	-61	-38	-25	-18
JULY 1969																								
10	35	51	59	67	69	68	53	28	-14	-63	-93	-108	-108	-91	-77	-63	-59	-69	-78	-73	-66	-59	-10	-25
AUGUST 1969																								
-12	-10	6	24	4	47	41	19	-7	-39	-80	-107	-112	-109	-81	-68	-55	-56	-54	-61	-55	-53	-38	-29	-37
SEPTEMBER 1969																								
-32	-22	-8	-4	4	12	16	6	-16	-43	-74	-83	-94	-84	-74	-60	-56	-59	-57	-58	-53	-43	-41	-39	-37
OCTOBER 1969																								
-31	-26	-20	-15	-1	-10	-2	-4	-10	-26	-45	-65	-68	-69	-64	-54	-50	-47	-44	-39	-38	-34	-34	-33	-36
NOVEMBER 1969																								
-32	-32	-33	-33	-2	-26	-22	-19	-24	-35	-45	-55	-58	-55	-53	-50	-50	-45	-41	-43	-37	-30	-29	-36	-38
DECEMBER 1969																								
-37	-38	-34	-38	-37	-39	-37	-37	-40	-52	-57	-63	-63	-61	-60	-57	-61	-56	-55	-49	-53	-51	-49	-43	-48
MEAN 1969																								
-14	-7	1	5	1	11	10	7	-5	-25	-49	-66	-73	-70	-60	-51	-44	-45	-46	-46	-44	-33	-28	-26	-28

TRMSØ, HORIZONTAL INTENSITY, H=11200+TABULAR QUANTITIES EXPRESSED IN GAMMA,
QUIET MEAN VALUES.

JANUARY 1969																								
85	86	87	88	8	88	87	85	83	82	83	84	84	86	87	87	88	89	88	87	85	84	84	84	86
FEBRUARY 1969																								
87	90	90	89	9	88	86	81	77	73	75	76	78	81	83	88	88	95	93	94		89	85	85	85
MARCH 1969																								
87	88	90	90	9	88	86	81	73	64	61	62	69	78	82	90	89	94	97	87	85	88	83	84	81
APRIL 1969																								
91	89	88	93	9	84	75	73	68	62	59	60	61	80	84	91	98	103	107	108	114	112			80
MAY 1969																								
92	85	101	100	9	86	78	75	70	56	60	74	80				100	104	106	104	102	101	99	95	88
JUNE 1969																								
94	93	98	97	9	93	86	77	67																89
JULY 1969																								
93	97	101	99	9	88	81	77	72	67	63	71	79	90	100	106	110	111	113	112	113	112			91
AUGUST 1969																								
99	101	100	101	97	94	87	79	77	67	74	82	94	98	101	104	98	100	106	107	104	97	94	96	92
SEPTEMBER 1969																								
98	97	90	97	9	92	86	78	73	69	71	69	72	77	87	92	98	103	106	104	103	104	104	103	90
OCTOBER 1969																								
97	95	90	95	9	96	91	90	82	72	68	72	78	86	91	96	98	98	99	98	101	101	100	99	90
NOVEMBER 1969																								
99	98	100	103	10	104	100	96	91	86	80	87	89	93	96	99	100	101	101	102	103	98	97	99	97
DECEMBER 1969																								
99	99	100	100	10	102	101	100	99	97	90	98	99	101	102	100	107	107	109	108	105	102	101	101	101
MEAN 1969																								
94	94	95	96	9	93	90	85	81	78	74	81	85	90	94	97	100	101	102	101	101	97	95	95	91

TRMSØ, VERTICAL INTENSITY, Z=51200+TABULAR QUANTITIES EXPRESSED IN GAMMA,
QUIET MEAN VALUES.

JANUARY 1969																								
17	18	17	16	17	16	15	16	17	17	18	18	19	20	20	19	19	17	16	15	12	11	11	12	17
FEBRUARY 1969																								
21	24	25	25	25	25	26	26	27	28	31	33	33	32	33	34	36	33	37	27	25	29	24	24	28
MARCH 1969																								
26	27	29	28	31	31	31	34	33	29	30	30	31	32	32	32	35	35	26						31
APRIL 1969																								
33	33	33	30	31	34	33	33	35	35	35	33	34	39	39	41	38	35	35	43	40	34	32	31	34
MAY 1969																								
34	33	28	28	31	28	27	26	27	30	33	34	37	38	36	32	41	39	35	29	29	28	29	30	31
JUNE 1969																								
26	30	29	29	28	32	32	30	30	28	23	22	24	27											29
JULY 1969																								
20	21	22	24	27	29	28	25	23	23	22	21	24	33	38	36	36	33	31	32	28	21	19	22	26
AUGUST 1969																								
28	27	31	33	31	29	29	26	26	29	28	28	26	30	30	30	29	28	25	24	24	23	20	10	28
SEPTEMBER 1969																								
32	32	33	32	32	32	34	35	34	35	37	38	37	35	35	35	36	36	34	32	31	30	28	29	34
OCTOBER 1969																								
45	45	45	45	44	46	48	49	49	49	50	51	51	49	49	48	48	48	48	47	45	47	44	44	48
NOVEMBER 1969																								
49	48	49	48	47	46	48	50	50	52	52	52	51	52	51	50	50	49	50	50	50	51	51	47	50
DECEMBER 1969																								
51	53	53	52	51	49	50	51	50	52	52	54	54	54	54	55	54	54	54	53	50	52	53	53	52
MEAN 1969																								
30	31	32	33	34	33	34	34	34	36	37	37	38	41	42	41	40	39	38	36	34	31	30	29	35

TROMSØ.

K-INDICES FOR THREE-HOUR INTERVAL
RANGE 2000 GAMMA FOR K=9. SCALE VALUES D=4.77 GAMMA H=5.33 GAMMA Z=7.15 GAMMA

Table with 4 columns: JANUARY 1969, FEBRUARY 1969, MARCH 1969, APRIL 1969. Each column contains 31 rows of numerical data.

TROMSØ.

K-INDICES FOR THREE-HOUR INTERVAL
RANGE 2000 GAMMA FOR K=9. SCALE VALUES D=4.77 GAMMA H=5.33 GAMMA Z=7.15 GAMMA

Table with 4 columns: MAY 1969, JUNE 1969, JULY 1969, AUGUST 1969. Each column contains 31 rows of numerical data.

TROMSØ.

K-INDICES FOR THREE-HOUR INTERVAL
RANGE 2000 GAMMA FOR K=9. SCALE VALUES D=4.77 GAMMA H=5.33 GAMMA Z=7.15 GAMMA

Table with 4 columns: SEPTEMBER 1969, OCTOBER 1969, NOVEMBER 1969, DECEMBER 1969. Each column contains 31 rows of numerical data.

JANUARY 1969
SUDDEN COMMENCEMENTS
13 2232 SSC - - - F
16 2305 SSC - - + A
22 2059 SSC + + + F

JANUARY 1969
BAYS
22 1700 BP - + F
22 1830 BP - + F

JANUARY 1969
SUDDEN IMPULSES
7 0323 SI + - - A

FEBRUARY 1969
SUDDEN COMMENCEMENTS
2 1501 SSC* + + + - A
5 2035 SSC - - - B
6 1944 SSC* - + + - A
13 2000 SSC + - - E
17 1948 SSC + + - C
26 0157 SSC* + - - A
28 2209 SSC - + + A

FEBRUARY 1969
BAYS
NONE

FEBRUARY 1969
SUDDEN IMPULSES
3 1829 SI - + + B
5 2211 SI + - - A
18 1950 SI - - - A
23 2233 SI - - - B

MARCH 1969
SUDDEN COMMENCEMENTS
6 2014 SSC* - - - B
8 1906 SSC* + + - B
14 2042 SSC - + + B
16 2348 SSC* - + + A
19 1957 SSC* - - - A
23 1012 SSC* - + + A
29 2206 SSC - + - B

MARCH 1969
BAYS
21 0950 B + - A
21 1335 B + - A

MARCH 1969
SUDDEN IMPULSES
2 2200 SI - - - B
2 2305 SI - - - A

APRIL 1969
SUDDEN COMMENCEMENTS
4 1915 SSC* + + + B
5 2025 SSC + + + B
6 1835 SSC + - - B
8 2016 SSC* + + + B
19 2057 SSC* - - - B
21 2214 SSC - + + B
26 1912 SSC* - + - A
28 0251 SSC* - - - A

APRIL 1969
BAYS
NONE

APRIL 1969
SUDDEN IMPULSES
1 1835 SI - - + B
9 1954 SI - - + A

MAY 1969
SUDDEN COMMENCEMENTS
2 1323 SSC* + + - A
3 2035 SSC - + + E
4 2203 SSC - - - E
5 1924 SSC* - + + F
6 2209 SSC - - - E
12 2147 SSC - + + A
14 1930 SSC* - + - A
20 2151 SSC - + + E

MAY 1969
BAYS
9 0918 B + - A
9 1130 B + - A
27 0033 B - + A
27 1146 B + + A

MAY 1969
SUDDEN IMPULSES
2 2057 SI - - + E
9 2206 SI - + + E

JUNE 1969
SUDDEN COMMENCEMENTS
6 2048 SSC - + - B
8 0508 SSC* - - - E
11 2157 SSC - + - B
14 2210 SSC - + + E
27 2033 SSC + - + F

JUNE 1969
BAYS
1 1230 B + - - A
2 1730 E + - - A
11 1245 F + - - A

JUNE 1969
SUDDEN IMPULSES
26 2115 SI + + - B

JULY 1969
SUDDEN COMMENCEMENTS
15 2213 SSC - - - B
22 2018 SSC* + + - B
26 1151 SSC* + + - A

JULY 1969
BAYS
3 1030 B + - A
18 1210 B + - A
29 2315 BP - + - B

JULY 1969
SUDDEN IMPULSES
4 2155 SI + + - A
26 2110 SI - - - B

AUGUST 1969
SUDDEN COMMENCEMENTS
3 2048 SSC - - + B
16 2100 SSC - + + A
20 2051 SSC + - - B
26 2118 SSC - - + B

AUGUST 1969
BAYS
6 0130 B - + + A
19 0054 BP - + + B
29 1312 B + - + B
31 1130 B + - - A
31 1245 B + - - A

AUGUST 1969
SUDDEN IMPULSES
2 2000 SI - - + A

SEPTEMBER 1969
SUDDEN COMMENCEMENTS
9 2148 SSC - - + A
14 1517 SSC* + + - A
18 1929 SSC - - + F
21 2051 SSC + - - C
27 1906 SSC* + + - B
29 0454 SSC* - - + A
29 2215 SSC - - + A

SEPTEMBER 1969
BAYS
26 2100 BPS - - - A
26 2230 BPS - + - A
27 1745 B + + + A

SEPTEMBER 1969
SUDDEN IMPULSES
10 2115 SI - - + A
23 1738 SI - - + E
28 2018 SI - + + A

OCTOBER 1969
SUDDEN COMMENCEMENTS
5 2248 SSC - + - B
8 1842 SSC - - - B
9 1639 SSC* + + - A
14 1829 SSC + + - C
15 2006 SSC - - - C
16 1608 SSC + - - A
17 2021 SSC - + - A
19 0109 SSC - + + B
19 1809 SSC* - + + B
23 2031 SSC* - - - B
24 0142 SSC* - - - A
27 2003 SSC - - - B
26 2000 SSC - - + A
29 1854 SSC - + - E
31 2127 SSC - - - A

OCTOBER 1969
BAYS
24 1115 B - + - B

OCTOBER 1969
SUDDEN IMPULSES
1 1942 SI - + + B
2 1524 SI - - + E
9 1951 SI + + - A
20 2119 SI - - - A
21 1713 SI + + - B

NOVEMBER 1969
SUDDEN COMMENCEMENTS
1 2222 SSC* - + - A
2 2307 SSC - + + B
3 2027 SSC - + - B
7 1948 SSC - + - A
10 0342 SSC - + - A
10 1145 SSC* + + - B
12 1653 SSC + + + B
18 1724 SSC + + - B
22 0254 SSC* - + - A
22 1942 SSC - - + A
25 2057 SSC + + - B
26 1510 SSC + - - A
29 1236 SSC - - - B
30 1536 SSC* + + + B

NOVEMBER 1969
BAYS
NONE

NOVEMBER 1969
SUDDEN IMPULSES
23 2139 SI - - + B

DECEMBER 1969
SUDDEN COMMENCEMENTS
3 1945 SSC + + - B
5 1936 SSC - + + B
6 2036 SSC* - - - B
7 2046 SSC - - + B
10 2018 SSC* + + + B
17 1827 SSC* - + + B
23 1830 SSC* + + - A
31 2038 SSC* + + - B

DECEMBER 1969
BAYS
2 1424 BS + + + A
4 1348 BS + - + A
28 1706 BS - + + A

DECEMBER 1969
SUDDEN IMPULSES
24 1927 SI + - - B
26 1627 SI + + - A
28 2200 SI + - - B

JANUARY 1969
PC1
23 0950 1240 A 2.2

JANUARY 1969
PC5
NONE

FEBRUARY 1969
PC1
NONE

FEBRUARY 1969
PC5
NONE

JANUARY 1969
PC2
NONE

JANUARY 1969
PC6
NONE

FEBRUARY 1969
PC2
NONE

FEBRUARY 1969
PC6
NONE

JANUARY 1969
PC3
5 05-- 1025 A 36.0
6 0625 0710 R 43.0
7 0640 0740 R 28.0
8 11-- 15-- B 28.0
9 0500 0846 R 32.0
9 0910 1305 H 37.0
10 0301 0550 A 36.0
10 0755 1005 R 34.0
12 03-- 10-- A 24.5
22 02-- 0715 H 38.5
22 1150 1300 P 38.3
24 0250 1215 A 17.8
28 04-- 14-- R 31.5
29 24-- 11-- H 31.0
31 02-- 1010 R 27.8

JANUARY 1969
P11
NONE
JANUARY 1969
P12
4 2210 2230 H
10 2339 2355 H
22 1830 1840 B
22 2024 2033 B
2R 2041 2052 H
JANUARY 1969
PG
NONE

FEBRUARY 1969
PC3
1 03-- 10-- A 29.3
2 0400 0725 A 25.3
7 00-- 0355 B 51.0
7 0400 0535 A 38.0
7 0545 0705 B 30.4
9 0420 0816 B 33.0
13 07-- 1255 A 26.0-32.0
14 04-- 1035 B 34.5
17 1403 1527 A 44.2
18 0159 1300 B 38.0
20 0928 11-- A 16.5
21 0940 12-- B 27.5
23 0815 13-- B 20.0-37.7
24 13-- 1500 B 28.5
25 0402 0530 A 38.3

FEBRUARY 1969
P11
NONE
FEBRUARY 1969
P12
9 1915 1930 B
17 1948 1959 B
17 2002 2016 B
19 0905 0920 B
22 0749 0800 B
22 2100 2107 B
23 1958 2015 B
24 2026 2040 B
24 2057 2115 B
25 2010 2025 B

JANUARY 1969
PC4
7 0335 0605 R 46.0
11 0800 10-- R 47.5
22 1513 1610 R 45.7

FEBRUARY 1969
PC4
22 0325 0441 A 46.7
23 13-- 1500 B 85.5
26 0309 08-- B 124.0

FEBRUARY 1969
PG
NONE

MARCH 1969
PC1
4 08-- 10-- A 2.8

MARCH 1969
PC5
NONE

APRIL 1969
PC1
11 12-- 15-- A 3.0

APRIL 1969
PC5
NONE

MARCH 1969
PC2
NONE

MARCH 1969
PC6
NONE

APRIL 1969
PC2
4 12-- 1410 A 6.0

APRIL 1969
PC6
NONE

MARCH 1969
PC3
1 1240 14-- B 36.0
2 0600 1136 A 32.0
3 0340 1232 R 36.0
7 11-- 13-- R 20.5
9 044R 13-- H 31.3
10 0215 1450 H 31.5
13 0640 1330 R 33.0
14 04-- 1438 R 2.0-34.0
18 0232 0640 H 34.6
22 04-- 0805 H 31.6
23 0200 0930 R 27.2-35.5
27 0540 1240 H 43.0
28 0145 11-- R 27.0

MARCH 1969
P11
NONE
MARCH 1969
P12
1 0846 0855 B
3 2052 2100 B
5 0343 0314 B
5 2131 2145 R
7 1849 1900 H
23 1012 1025 B
MARCH 1969
PG
NONE

APRIL 1969
PC3
4 1435 1738 B 45.0
5 1037 1143 B 38.5
6 04-- 08-- B 32.0
6 1152 1305 B 29.0
7 1035 1127 H 28.5
8 0755 1200 A 28.5
10 02-- 08-- H 35.5
11 03-- 09-- H 26.0
12 0555 1045 A 25.0
19 03-- 1525 B 28.5-34.5
20 0245 1215 B 33.5-39.0
26 03-- 0930 B 25.5-33.5
26 1021 1200 H 31.0
26 1230 1355 H 31.0

APRIL 1969
P11
NONE
APRIL 1969
P12
6 1649 1700 B
20 1826 1840 B
23 2321 2330 B
24 2124 2135 B
25 2036 2045 B
APRIL 1969
PG
NONE

MARCH 1969
PC4
4 0136 0830 A 57.0-79.0

APRIL 1969
PC4
NONE

MAY 1969
PC1
5 11-- 13-- A 4.2

MAY 1969
PC5
NONE

JUNE 1969
PC1
NONE

JUNE 1969
PC5
NONE

MAY 1969
PC2
NONE

MAY 1969
PC6
NONE

JUNE 1969
PC2
4 13-- 1650 B 7.2

JUNE 1969
PC6
NONE

MAY 1969
PC3
1 07-- 0935 R 33.8
2 0640 10-- R 26.0
4 0235 0640 A 30.0
5 0715 10-- R 30.0
6 0715 1155 H 28.3
8 0630 1220 R 27.5-44.5
11 0750 12-- R 32.8
12 01-- 15-- A 23.5
16 13-- 1640 R 32.0
17 0934 1420 R 32.0
17 1420 1705 R 14.0
20 0920 1125 H 26.0
21 1550 1815 H 26.0
25 06-- 0940 P 32.0
26 0727 12-- H 24.5
27 0550 0620 A 30.0
27 0800 0940 R 36.0
27 1000 1418 H 28.5
29 01-- 11-- A 37.0

MAY 1969
P11
NONE
MAY 1969
P12
8 0142 0150 B
8 1840 1855 B
8 1906 1920 B
10 2103 2112 B
10 2120 2135 H
20 1825 1833 R
23 1846 1900 R
23 1910 1920 B
23 1930 1940 R
26 1858 1910 B
26 2008 2016 H
26 2025 2035 R
26 2054 2105 B
26 2119 2130 H

JUNE 1969
PC3
1 03-- 1340 B 38.0
2 0310 0840 H 32.0
3 0500 0710 B 37.5
3 0840 11-- B 33.5
4 1000 1255 B 44.5
18 02-- 15-- A 29.0
19 0120 09-- B 33.7
19 1010 1045 R 31.5
28 0300 1425 B 33.5
30 04-- 1420 B 41.0

JUNE 1969
P11
NONE
JUNE 1969
P12
1 1825 1835 B
1 1845 1857 B
15 2115 2122 B
15 2145 2155 B
15 2208 2220 B
17 2117 2130 B
22 2012 2023 B

MAY 1969
PC4
11 00-- 0625 R 48.3
26 0131 0345 A 82.0

MAY 1969
PG
NONE

JUNE 1969
PC4
22 0020 1320 A 56.5

JUNE 1969
PG
NONE

JULY 1969
PC1
11 06-- 12-- A 3,5
20 06-- 14-- A 4,3

JULY 1969
PC5
NONE

AUGUST 1969
PC1
11 0930 1520 A 4,0

AUGUST 1969
PC5
NONE

JULY 1969
PC2
NONE

JULY 1969
PC6
NONE

AUGUST 1969
PC2
NONE

AUGUST 1969
PC6
NONE

JULY 1969
PC3
5 0300 12-- H 40,0
7 01-- 05-- H 27,7
10 0533 0755 H 29,0
24 0352 0910 A 33,5
25 0830 1355 H 31,0
31 1040 1310 A 40,0

JULY 1969
PI1
NONE

AUGUST 1969
PC3
1 01-- 16-- A 40,0
5 1330 1432 B 43,5
10 05-- 12-- B 37,0
11 2137 23-- B 13,0-31,3
16 1028 14-- H 30,0
20 1000 1310 A 31,0
21 07-- 1245 B 35,0
28 0900 1150 B 43,0

AUGUST 1969
PI1
NONE

JULY 1969
PI2
2 2048 2100 H
4 2155 2205 B
24 1647 1700 B
24 2306 2320 B
25 0232 0245 B

AUGUST 1969
PI2
5 2015 2025 B
14 2117 2130 B
14 0659 0710 B
21 2106 2115 B
22 2046 2100 B
22 2103 2110 B
22 2116 2125 B
25 2044 2055 B
25 2104 2115 B
25 2213 2230 B

JULY 1969
PC4
3 2315 0035 O 421,0
4 02-- 1116 A 52,0
6 0550 0930 H 49,2
8 1022 1205 R 46,3
19 09-- 17-- J 55,0
20 0035 0725 F 45,2-68,0
29 0550 10-- R 46,2

JULY 1969
PG
NONE

AUGUST 1969
PC4
1 2350 0815 A 73,7
11 0122 0545 A 57,0
25 0432 0635 B 57,0
25 0925 1235 H 56,0
26 0100 05-- A 70,7

AUGUST 1969
PG
NONE

SEPTEMBER 1969
PC1
13 05-- 1040 H 3,3
23 0610 0730 A 3,5
28 06-- 08-- H 1,0

SEPTEMBER 1969
PC5
NONE

OCTOBER 1969
PC1
18 1059 12-- A 3,3

OCTOBER 1969
PC5
10 0430 0600 A 210

SEPTEMBER 1969
PC2
NONE

SEPTEMBER 1969
PC6
NONE

OCTOBER 1969
PC2
NONE

OCTOBER 1969
PC6
NONE

SEPTEMBER 1969
PC3
1 0705 0815 H 31,0
3 0805 1135 A 35,0
10 0940 1420 - 39,0
12 0935 1215 A 41,0
12 1100 1530 J 44,0
13 0330 14-- R 43,7
16 07-- 0945 H 41,0
27 0820 0920 H 30,5
27 13-- 15-- H 35,8

SEPTEMBER 1969
PI1
NONE

OCTOBER 1969
PC3
3 0745 0906 B 42,4
3 0931 1057 H 37,6
4 0915 1005 B 39,6
5 1257 1321 B 25,4
6 0706 0806 H 29,5
15 06-- 08-- B 42,7
17 02-- 1032 B 26,5
18 02-- 09-- B 24,5
20 01-- 1133 B 26,5
25 0358 0820 H 32,0
26 0428 0446 B 29,6
27 0136 0700 R 44,9
29 0355 0945 B 31,6

OCTOBER 1969
PI1
NONE

SEPTEMBER 1969
PI2
4 1843 1850 B
8 2054 2105 B
21 0026 0035 A
21 2018 2025 B
21 2055 2105 B
24 2105 2115 H
24 2349 2400 H
26 2108 2120 H
26 2201 2210 H
26 2234 2250 H

OCTOBER 1969
PI2
NONE

OCTOBER 1969
PG
NONE

SEPTEMBER 1969
PC4
1 0925 1035 H 46,0
4 0410 0900 A 406,0
21 1300 1435 H 47,0
21 1500 1710 H 48,0
22 0220 0405 A 116,0
23 0001 0315 J 53,0
23 0445 0610 A 57,5
27 14-- 15-- - 77,2

SEPTEMBER 1969
PG
NONE

OCTOBER 1969
PC4
8 0957 1105 H 47,8

NOVEMBER 1969
PC1
NONE

NOVEMBER 1969
PC5
11 1245 1420 B 200
30 1318 1348 A 420

DECEMBER 1969
PC1
4 04-- 06-- A 2,5

DECEMBER 1969
PC5
NONE

NOVEMBER 1969
PC2
27 0947 0957 A 6,6

NOVEMBER 1969
PC6
NONE

DECEMBER 1969
PC2
NONE

DECEMBER 1969
PC6
NONE

NOVEMBER 1969
PC3
6 03-- 05-- H 52,0
12 0603 0706 H 31,6
14 0400 0620 H 44,4
15 03-- 0826 H 44,9
18 0225 0800 H 28,5-36,7
19 0245 08-- H 28,6-36,7
20 0327 09-- H 28,5
25 0130 0235 H 32,6
25 0447 0536 H 27,5
29 1008 1200 H 26,6

NOVEMBER 1969
PI1
NONE

DECEMBER 1969
PC3
1 0425 0700 B 30,0
1 0949 1025 B 38,8
3 0240 0300 B 33,6
9 0645 1120 B 19,8
10 0230 0715 B 28,5-32,6
12 0552 0731 B 31,6
23 0645 0835 B 21,4

DECEMBER 1969
PI1
NONE

NOVEMBER 1969
PI2
NONE

DECEMBER 1969
PI2
NONE

NOVEMBER 1969
PC4
5 0359 13-- B 32,1
16 0830 1125 H 41,9-50,5
21 1505 1535 B 150,0

NOVEMBER 1969
PG
NONE

DECEMBER 1969
PC4
2 0331 0444 H 55,0
2 0505 06-- B 49,0
12 2102 2127 B 65,2

DECEMBER 1969
PG
NONE

