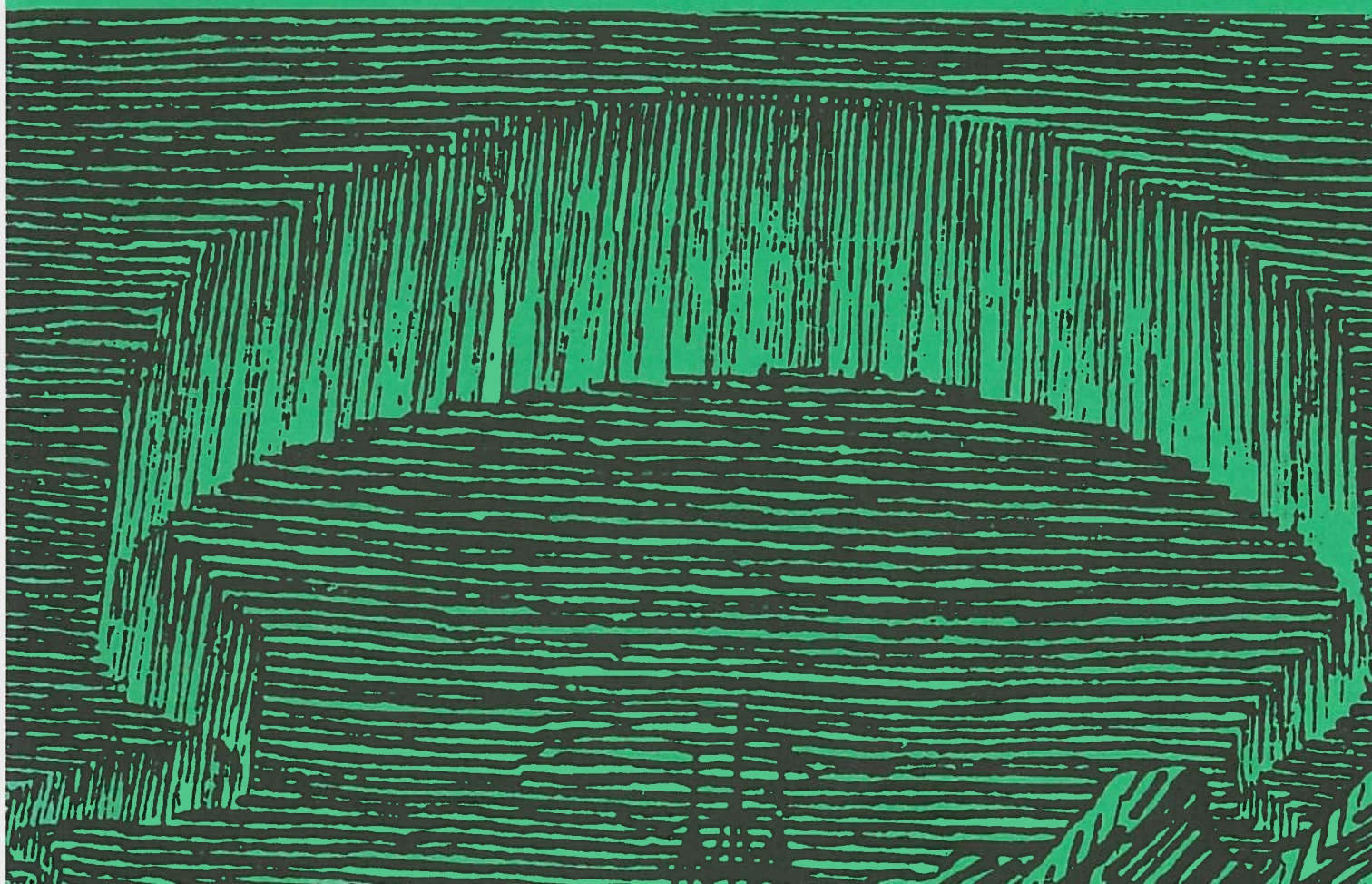


THE AURORAL OBSERVATORY

TROMSØ

NORWAY

**MAGNETIC OBSERVATIONS
1995**



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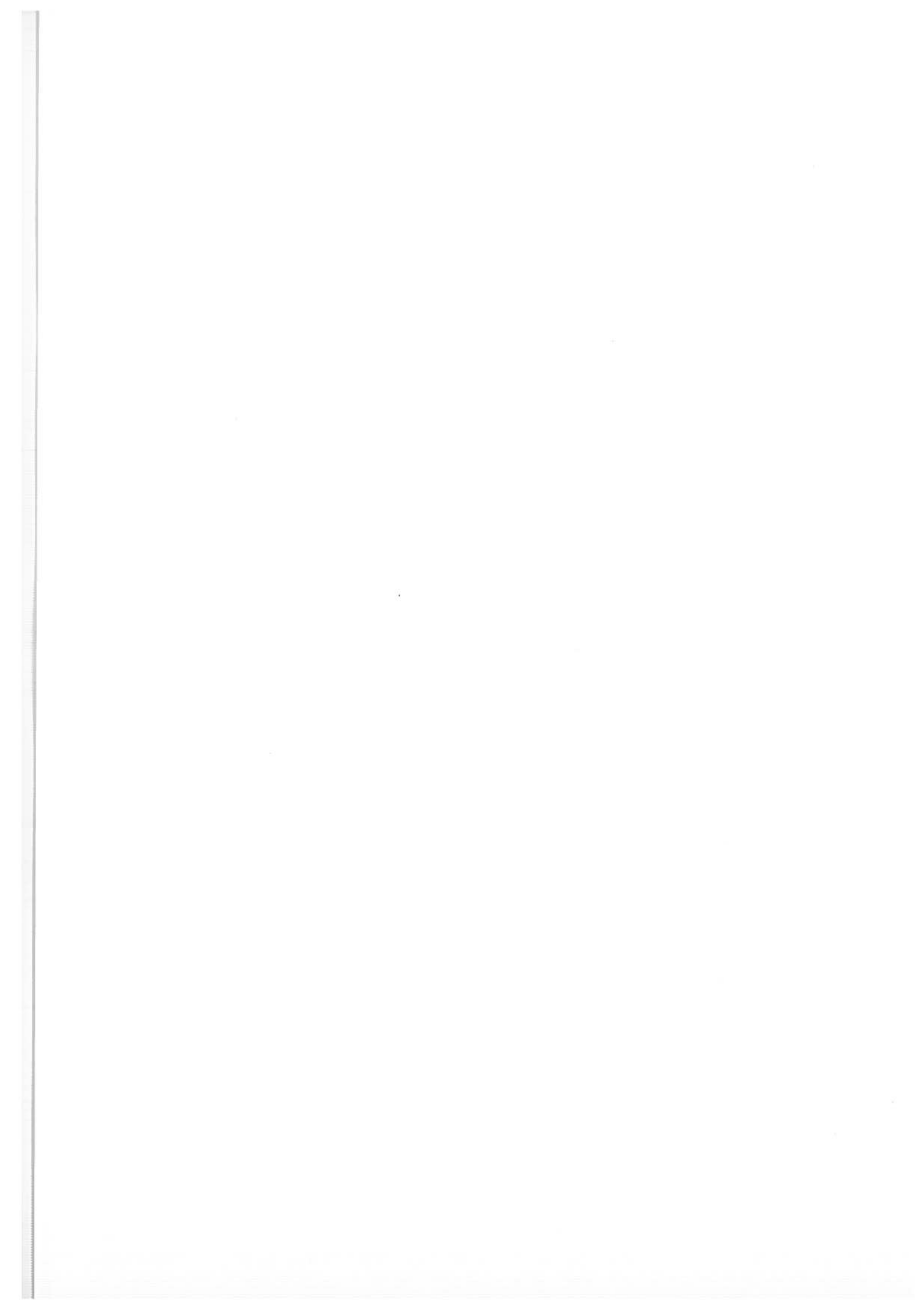
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Introduction

This yearbook presents the results of the geomagnetic measurements carried out in 1995 at The Auroral Observatory, University of Tromsø, Norway. The observatory is situated 2 km NW from the center of Tromsø, and the geographical coordinates are:

Latitude 69° 39'.7 N

Longitude 18° 56'.4 E

Altitude 105 m above sea level

Instruments

The values presented are based on digital recording with an orthogonal 3-axis fluxgate system of local design. The instrument has a range of +/- 8000 nT and a resolution of 0.25 nT on each axis. Absolute calibrations have been performed with a D/I fluxgate theodolite (Zeiss 010B) for D and I measurements and Elsec 820 proton magnetometer for F.

Data availability

The hourly mean values as well as 1 minute values and the original 10 s data, are available in digital form at our database. For information see our Internet pages

<http://geo.phys.uit.no>

or contact Børre Holmeslet:

E-mail: Borre.Holmeslet@phys.uit.no

Fax: +47 77 64 55 80

Data are also provided on diskettes, on CD-ROM or as plots. Requests should be directed to the E-mail address or fax above, or to

The Auroral Observatory

University of Tromsø

N-9037 TROMSØ, Norway

Hourly mean values and 1 min values may also be obtained from World Data centres for geomagnetism.

Notes for the tables

- The range of hourly mean values is -999 to 9999 inclusive. Values outside this range are marked with ***.
- Universal time is used.
- Hours are numbered from 1 to 24; hour 1 means 0000-0059 UT, hour 2 is 0100-0159 etc.
- Quiet mean values are calculated from periods with K-indices less than 2.
- D denotes inclination. It is positive east.
- H is the horizontal component.
- Z is the vertical component. It is positive downwards.
- I denotes inclination calculated by $I = \text{Arctg}(Z/H)$.
- F is the total field calculated by $F = (H^2 + Z^2)^{1/2}$.
- X is the north-south component computed by $X = H \cdot \cos(D)$
- Y is the east-west component given by $Y = H \cdot \sin(D)$

Mean Values 1995

	D	H(nT)	Z(nT)	I	F(nT)	X(nT)	Y(nT)
All days	2° 10'.0	11073	51677	77° 54'.4	52850	11065	419
Quiet days	2° 08'.0	11092	51678	77° 53'.2	52855	11084	413

All days means for the years 1930-1994 are listed in the 1994 yearbook.

Tromsø, March 1999

Tor Holmboe

Børre Holmeslet
Truls Lynne Hansen

Bjørnar Hansen

Tromsø Declination. D = 2' + Tabular quantities expressed in tenths of minutes East.
Hourly mean values (All day)

September 1995

Table with 24 columns (Day 1-24) and 1 MEAN column, containing hourly mean values for Tromsø in September 1995.

Tromsø Declination. D = 2' + Tabular quantities expressed in tenths of minutes East.
Hourly mean values (All day)

October 1995

Table with 24 columns (Day 1-24) and 1 MEAN column, containing hourly mean values for Tromsø in October 1995.

Tromsø Vertical intensity. Z = 51600 nT + Tabular quantities expressed in nT.
Hourly mean values (All day)

November 1995

Table with 25 columns (Day 1-24, MEAN) and 31 rows (Days 1-30, MEAN). Data represents hourly mean values for November 1995.

Tromsø Vertical intensity. Z = 51600 nT + Tabular quantities expressed in nT.
Hourly mean values (All day)

December 1995

Table with 25 columns (Day 1-24, MEAN) and 31 rows (Days 1-31, MEAN). Data represents hourly mean values for December 1995.

Tromsø Declination. $D = 2^\circ +$ Tabular quantities expressed in tenths of minutes East.
Hourly mean values (All day)

Summary 1995

Mnt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
Jan.	135	136	116	119	88	47	33	27	30	26	17	8	-3	-6	-5	-10	15	13	22	18	59	83	110	116	49
Feb.	143	193	201	128	95	60	50	39	29	25	19	3	-4	-8	0	11	5	23	45	30	38	64	96	159	60
Mar.	159	159	179	158	128	96	77	75	71	55	29	0	-8	-20	-19	-5	-17	-2	6	33	54	105	140	217	69
Apr.	189	251	236	226	185	143	118	105	80	64	36	5	-9	-11	-15	-3	-11	-7	-2	47	30	80	116	157	83
May.	229	272	284	294	246	191	154	106	85	64	41	11	-8	-27	-18	-36	-29	-41	-23	-10	61	116	178	204	97
Jun.	207	225	232	235	190	181	153	136	112	76	49	17	2	-5	-5	-4	-11	-13	-22	4	30	71	131	153	89
Jul.	195	225	225	192	175	165	161	145	118	84	50	21	11	3	5	9	16	19	9	12	31	65	95	150	90
Aug.	240	241	244	229	191	161	143	132	116	92	61	38	21	24	25	45	42	40	30	42	66	116	157	197	112
Sep.	211	225	266	219	178	155	130	114	100	92	70	49	41	43	42	43	62	45	61	71	112	147	204	228	121
Oct.	334	298	296	237	164	138	120	118	117	100	100	84	64	62	49	56	75	69	71	97	168	251	306	285	152
Nov.	209	198	186	160	134	121	113	117	117	112	108	101	94	97	88	98	100	102	103	135	144	186	202	203	134
Dec.	211	198	183	175	156	131	126	126	126	123	113	107	98	96	98	102	106	109	126	139	169	168	177	196	139
MEAN	205	218	220	197	160	132	114	103	92	76	57	37	24	20	20	25	29	29	35	51	80	121	159	188	100

Tromsø Horizontal intensity. $H = 11000$ nT + Tabular quantities expressed in nT.
Hourly mean values (All day)

Summary 1995

Mnt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
Jan.	-7	24	41	58	68	86	92	101	102	99	99	105	114	121	125	131	125	102	86	81	56	4	9	1	75
Feb.	-40	-20	7	57	81	95	89	95	94	98	106	113	124	129	153	159	155	117	80	70	44	26	8	0	76
Mar.	-15	-7	27	59	70	90	101	96	87	83	91	104	119	126	146	149	149	120	93	63	35	3	-29	-43	71
Apr.	-40	-20	18	18	35	66	80	77	75	77	83	96	119	137	126	143	139	139	114	59	51	25	13	-17	67
May.	-22	-38	-31	-3	15	40	69	88	82	85	102	124	150	170	170	178	159	141	112	56	14	-22	-38	-39	65
Jun.	14	15	31	46	71	73	85	84	82	76	88	105	129	141	148	167	161	157	139	105	73	43	21	14	86
Jul.	19	16	46	78	87	91	87	83	78	74	77	89	101	110	127	149	146	146	143	117	91	75	44	33	87
Aug.	-14	-14	30	40	61	79	85	84	82	81	87	94	107	115	136	141	142	144	133	102	61	16	10	0	75
Sep.	19	10	17	47	63	73	80	79	76	84	96	105	115	133	141	143	125	113	98	67	40	4	-29	-18	70
Oct.	-58	-17	1	30	53	64	84	90	84	92	103	114	135	136	148	152	134	105	69	18	-27	-57	-108	-67	53
Nov.	17	21	54	72	82	90	92	91	91	89	91	96	97	100	110	116	119	104	86	68	62	38	22	21	76
Dec.	16	28	48	59	73	91	96	90	89	90	93	93	103	114	116	120	114	109	95	92	67	50	45	29	80
MEAN	-9	0	24	46	63	78	86	88	85	85	93	103	117	127	137	145	139	124	104	74	47	17	-2	-7	73

Tromsø Vertical intensity. $Z = 51600$ nT + Tabular quantities expressed in nT.
Hourly mean values (All day)

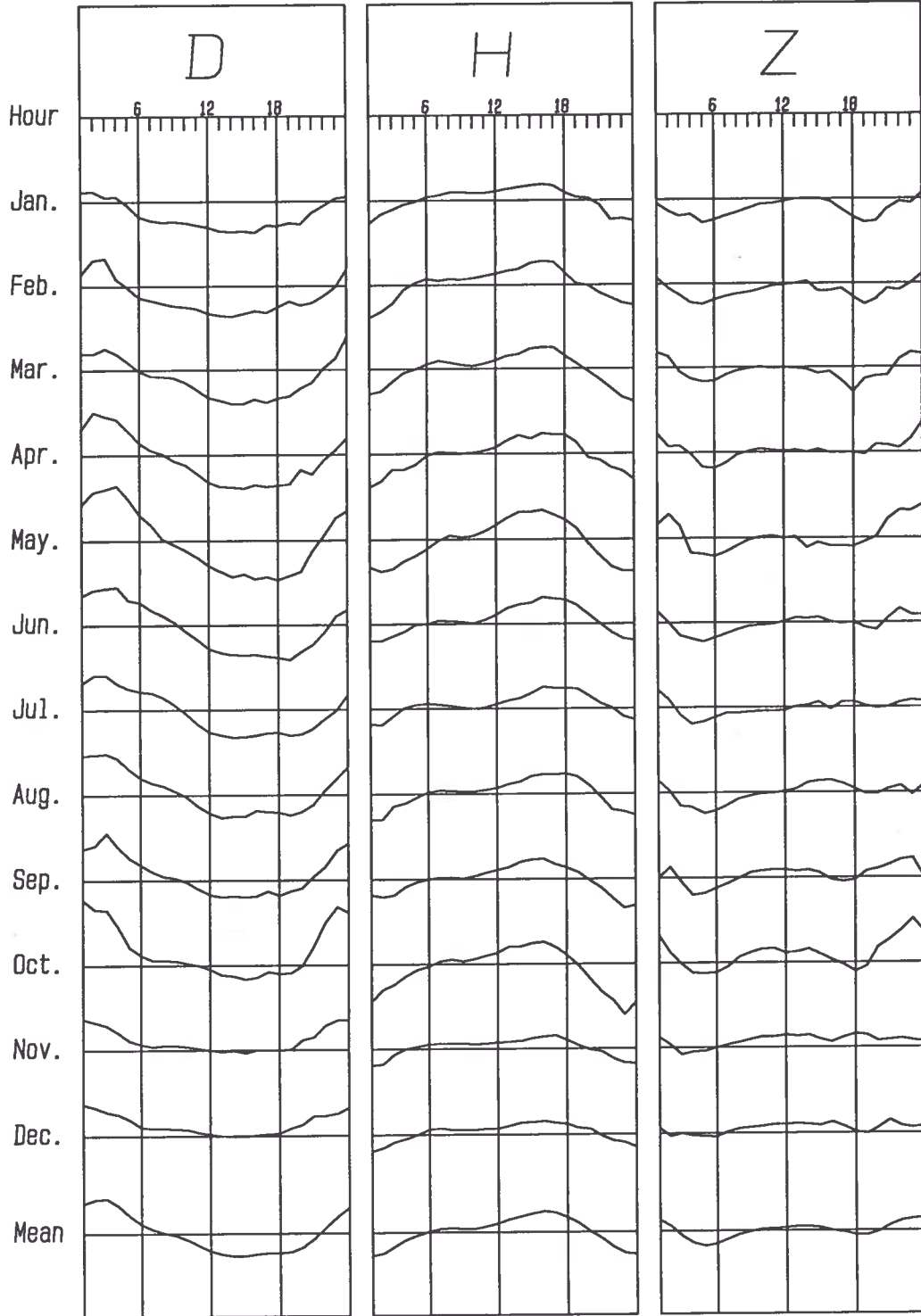
Summary 1995

Mnt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
Jan.	70	57	48	51	36	41	48	54	61	68	69	73	77	78	78	73	59	45	36	38	59	72	69	87	60
Feb.	88	70	58	44	41	49	55	59	62	67	73	75	77	81	64	64	68	53	40	49	68	65	77	94	64
Mar.	104	97	70	57	52	53	64	71	75	78	75	76	75	73	66	69	53	33	56	61	62	91	103	100	71
Apr.	110	88	89	74	52	50	59	73	79	83	81	79	81	77	82	76	76	73	90	89	84	100	129		81
May.	101	119	99	51	49	45	53	64	74	79	81	77	79	60	69	63	63	62	70	79	109	126	124	135	80
Jun.	97	77	55	49	44	51	58	65	71	72	74	79	85	84	86	78	75	77	68	64	84	101	90	90	73
Jul.	108	90	64	48	52	60	67	67	69	70	70	71	78	80	86	73	86	86	79	75	77	85	89	87	75
Aug.	98	80	54	52	41	46	55	66	71	75	76	79	83	94	97	98	92	83	74	74	83	88	73	89	75
Sep.	77	96	70	47	50	59	67	76	86	89	91	91	88	90	85	73	70	73	88	92	99	108	111	77	81
Oct.	125	95	75	59	58	60	70	87	95	101	102	94	96	101	92	82	73	61	70	104	117	134	155	131	93
Nov.	95	82	65	70	71	77	82	86	91	95	95	98	96	98	91	86	94	100	98	88	90	92	89	86	88
Dec.	86	72	77	73	72	71	80	85	87	89	92	92	93	92	90	96	88	79	76	86	99	89	86	89	84
MEAN	96	85	68	56	51	55	63	71	76	80	81	82	84	84	82	77	74	69	69	75	86	94	97	99	77

Tromsø 1995

(All Day)

Hourly mean values.



Scale = 2 min./mm
Baseline = 130.0min.

Scale = 20 nT./mm
Baseline = 11073nT

Scale = 10 nT./mm
Baseline = 51677nT

Tromsø Declination. $D = 2' +$ Tabular quantities expressed in tenths of minutes East.
Hourly mean values (Quiet mean)

Summary 1995

Mnt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
Jan.	49	40	34	39	36	30	29	31	33	27	20	16	13	13	19	17	18	19	26	32	33	45	41	39	29
Feb.	52	56	57	56	56	49	49	46	41	33	25	16	12	16	20	29	32	27	22	29	40	47	46	48	37
Mar.	56	59	60	77	78	78	77	80	69	54	34	13	10	11	22	30	35	36	33	36	38	59	59	62	48
Apr.	69	77	92	106	112	114	110	99	81	66	42	18	7	8	18	30	38	36	42	39	39	50	51	59	58
May.	81	91	96	146	148	143	122	106	84	59	24	1	16	18	29	28	37	41	34	33	33	53	60	71	64
Jun.	113	128	139	152	152	156	152	136	106	75	41	12	2	9	22	35	43	43	37	32	40	58	77	93	77
Jul.	116	129	149	159	164	163	154	145	117	88	53	23	10	7	18	38	47	49	44	44	47	55	71	87	82
Aug.	125	131	143	155	154	151	150	143	121	93	65	39	30	36	55	60	68	76	81	82	87	93	104	115	98
Sep.	120	128	128	150	146	147	135	127	114	98	76	57	54	57	71	77	79	78	96	93	101	108	118	130	103
Oct.	142	140	149	139	133	131	130	134	126	107	92	75	78	84	90	93	97	100	111	115	116	120	121	128	114
Nov.	131	130	126	130	131	126	124	127	124	115	108	103	101	103	105	106	110	114	121	129	133	128	135	134	120
Dec.	140	137	134	142	138	139	134	136	131	123	114	109	109	111	112	118	123	124	129	141	140	149	148	141	130
MEAN	99	103	108	120	120	118	113	109	95	78	57	40	36	39	48	55	60	61	64	67	70	80	85	92	80

Tromsø Horizontal intensity. $H = 11000$ nT + Tabular quantities expressed in nT.
Hourly mean values (Quiet mean)

Summary 1995

Mnt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
Jan.	89	91	93	97	99	99	101	99	97	95	93	92	93	96	96	98	99	100	101	103	102	94	92	89	96
Feb.	96	95	97	99	100	102	99	98	95	91	91	90	90	92	95	95	98	99	106	103	100	101	97	96	96
Mar.	97	98	97	99	98	98	99	93	85	78	76	79	82	87	93	98	99	101	102	105	104	91	91	91	93
Apr.	97	96	94	98	98	95	90	82	74	67	67	74	80	88	93	95	99	105	106	107	104	96	95	94	91
May.	100	104	103	102	100	94	88	83	78	75	74	83	84	95	101	110	114	113	115	112	110	100	95	99	97
Jun.	97	102	103	101	99	94	88	83	76	73	75	82	88	92	104	111	120	124	120	117	108	99	96	97	97
Jul.	92	93	97	104	99	94	90	83	76	72	72	80	82	94	102	109	113	120	123	118	111	98	98	95	96
Aug.	92	89	89	98	95	91	86	80	75	71	70	79	81	90	99	107	105	109	102	95	96	91	87	83	90
Sep.	91	93	92	91	93	90	88	83	76	73	74	76	82	92	94	96	100	106	103	101	98	87	83	80	89
Oct.	75	79	81	90	93	92	90	85	80	74	75	79	84	90	90	92	94	97	91	90	91	92	91	88	86
Nov.	88	86	87	91	94	95	95	92	89	86	85	84	87	90	91	92	94	97	93	93	89	87	86	88	89
Dec.	80	82	84	87	89	89	92	88	86	85	85	86	90	90	92	91	92	94	92	90	89	87	86	84	87
MEAN	91	92	93	96	96	94	92	87	82	78	78	82	85	91	95	99	102	105	104	102	100	93	91	90	92

Tromsø Vertical intensity. $Z = 51600$ nT + Tabular quantities expressed in nT.
Hourly mean values (Quiet mean)

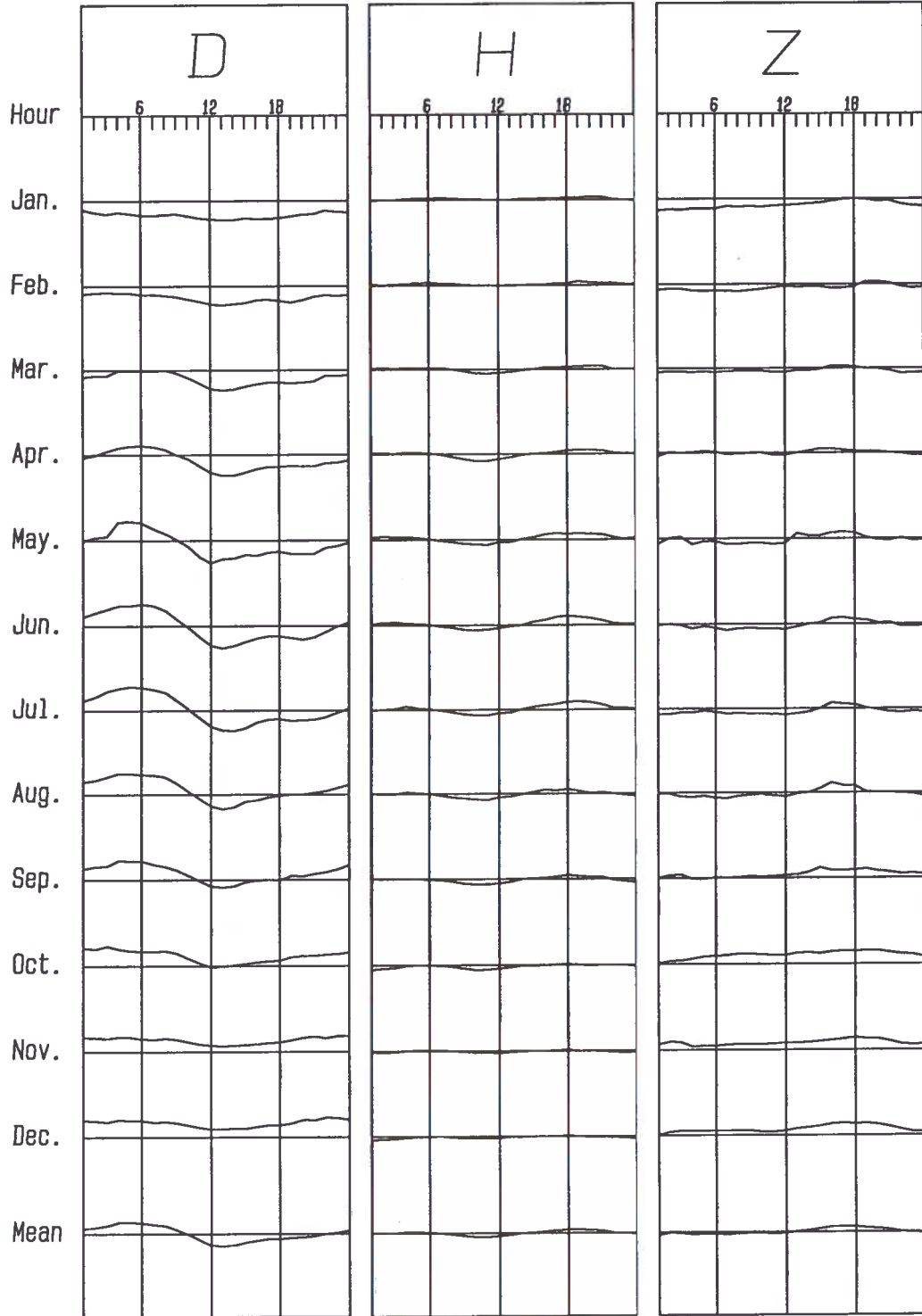
Summary 1995

Mnt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MEAN
Jan.	57	59	58	60	60	60	64	63	64	63	65	66	67	69	70	73	76	77	76	73	74	68	65	64	66
Feb.	67	69	69	66	65	66	65	64	66	68	71	74	72	73	73	70	70	73	81	81	79	73	70	72	70
Mar.	70	71	71	70	71	70	71	72	72	72	70	70	73	73	75	81	81	80	76	76	73	68	69	69	72
Apr.	71	78	77	78	80	79	74	75	76	77	73	73	77	80	84	84	82	80	80	79	77	76	73	73	77
May.	68	78	80	67	72	72	67	67	69	69	67	69	86	82	82	87	88	87	79	75	74	78	74	75	75
Jun.	76	77	75	69	73	70	66	69	70	69	69	68	72	77	79	87	88	85	84	79	80	73	73	74	75
Jul.	67	67	70	70	73	71	68	69	68	68	67	66	68	71	77	87	85	84	78	75	71	70	72	71	72
Aug.	75	75	70	69	71	68	67	71	73	74	72	70	75	77	84	94	89	89	78	77	77	76	75	71	75
Sep.	77	82	83	75	75	78	77	78	80	79	80	82	83	87	95	90	90	91	93	89	87	84	85	83	83
Oct.	79	82	83	86	90	91	92	94	94	93	92	92	96	97	95	98	99	99	100	100	97	94	93	89	92
Nov.	87	91	90	83	84	84	86	87	87	87	88	89	89	90	92	94	96	98	96	96	92	87	86	87	89
Dec.	78	83	85	85	85	85	85	85	85	83	83	85	89	91	93	97	98	97	98	96	92	87	83	83	87
MEAN	72	76	75	73	74	74	73	74	75	75	74	75	78	80	83	86	86	86	84	83	81	77	76	75	78

Tromsø 1995

(Quiet mean)

Hourly mean values.



Scale = 2 min./mm
Baseline = 128.1min.

Scale = 20 nT./mm
Baseline = 11092nT

Scale = 10 nT./mm
Baseline = 51677nT

K-Indices for three-hour interval
Tromsø 1995
Range 2000 nT. for K = 9

Day	January	Sum	February	Sum	March	Sum	April	Sum
1	0 0 0 0 0 1 2 3	6	4 4 4 3 3 4 5 3	30	5 5 4 3 3 5 6 7	38	0 0 0 0 2 3 6 5	16
2	1 2 2 3 2 5 6 6	27	4 4 3 3 5 5 6 6	36	5 5 4 4 4 5 4 4	35	4 7 3 4 4 3 2 1	28
3	7 5 3 3 3 6 6 6	39	5 5 4 3 5 5 6 5	38	4 2 1 1 1 1 3 4	17	1 0 0 0 0 0 0 0	1
4	4 4 4 2 3 3 4 6	30	7 3 3 3 4 5 5 4	34	3 1 0 6 5 7		1 0 0 0 0 0 0 4	5
5	5 3 3 3 3 4 6 5	32	2 1 1 1 1 2 1 2	11	5 2 1 2 5 4 5 4	28	4 2 1 2 3 1 3 4	20
6	4 2 2 3 2 3 4 5	25	4 2 0 1 2 3 1 5	18	2 1 1 0 1 1 0 0	6	5 2 0 0 0 0 2 5	14
7	3 2 3 3 2 2 5 3	23	5 3 1 1 1 2 2 7	22	0 0 1 0 1 2 0 0	4	4 6 5 4 6 7 7 5	44
8	2 2 1 1 1 2 2 2	13	5 5 5 4 4 4 3 2	32	0 1 0 0 0 0 0 0	1	4 4 4 3 4 4 6 5	34
9	2 1 2 1 0 0 0 4	10	0 2 2 0 0 0 0 0	4	0 2 2 2 2 3 5 5	21	6 6 4 4 4 4 4 5	37
10	0 0 1 1 2 2 3 4	13	0 0 0 0 0 1 1 4	6	5 5 3 3 3 3 4 6	32	4 5 4 4 4 4 5 5	35
11	4 2 2 3 4 4 4 4	27	5 1 3 3 4 5 4 5	30	7 5 4 2 4 5 6 7	40	3 5 3 3 3 3 6 5	31
12	5 1 0 0 1 0 3 4	14	5 4 3 4 3 4 7 6	36	7 6 4 3 3 4 6 5	38	6 6 3 3 3 3 5 5	34
13	0 1 1 2 2 0 3 3	12	7 5 5 3 5 6 6 6	43	5 4 4 5 5 6 5 5	39	3 2 2 1 1 2 3 5	19
14	3 0 0 0 0 1 4 4	12	5 4 3 3 4 4 7 4	34	5 5 4 3 4 4 6 4	35	5 1 1 1 1 1 3 2	15
15	3 0 0 0 0 0 1 3	7	5 4 3 2 2 4 5 6	31	3 3 3 3 2 2 4 6	26	1 0 1 1 1 2 2 0	8
16	4 0 1 3 4 4 6 4	26	3 2 2 1 1 4 4 4	21	5 4 2 2 3 3 5 4	28	0 0 1 1 1 0 3 2	8
17	4 3 4 4 3 5 5 6	34	1 1 2 1 2 2 1 1	11	3 1 1 2 2 3 4 5	21	5 0 1 1 1 1 1 0	10
18	5 6 5 3 2 2 3 5	31	4 3 1 2 2 3 4 3	22	3 0 1 1 1 0 2 1	9	1 1 1 2 3 1 4 4	17
19	4 2 1 2 1 1 1 0	12	3 2 2 1 1 3 4 4	20	1 0 1 0 0 1 3 4	10	3 2 1 2 1 2 2 4	17
20	0 0 0 0 1 2 5 5	13	2 2 0 1 1 2 3 2	13	2 0 0 2 3 3 3 3	16	1 2 1 2 2 3 3 2	16
21	3 3 2 1 0 1 5 5	20	3 1 0 1 1 0 3 4	13	0 0 0 0 0 0 0 0	0	0 0 0 0 1 0 0 0	1
22	3 1 0 1 2 2 3 5	17	0 0 0 1 0 0 0 0	1	0 1 0 1 0 0 0 2	4	0 0 0 3 3 4 4 4	18
23	4 2 1 1 0 0 2 3	13	1 0 0 0 3 3 3 4	14	0 0 0 2 2 4 3 2	13	5 3 2 3 3 4 4 6	30
24	1 1 0 0 1 0 0 0	3	1 0 0 0 0 0 3 2	6	3 0 1 0 1 1 1 4	11	5 6 3 2 3 3 5 4	31
25	2 0 1 1 0 0 1 1	6	0 0 0 0 0 0 1 2	3	3 0 1 1 0 0 1 3	9	7 5 2 3 3 3 3 3	29
26	0 0 0 0 0 0 0 3	3	2 2 2 3 5 5 5 4	28	2 0 2 4 5 5 4 6	28	3 2 2 3 4 3 3 6	26
27	2 0 0 0 1 1 0 0	4	3 4 2 3 5 5 6 5	33	4 1 3 4 4 4 5 5	30	5 4 4 4 4 3 4 3	31
28	0 0 0 0 0 0 0 3	3	6 5 4 5 2 3 7 4	36	5 5 3 3 3 4 3 3	29	4 3 2 3 3 3 3 2	23
29	3 5 2 2 5 5 5 7	34			5 6 3 4 4 3 4 5	34	4 1 1 2 3 2 4 5	22
30	6 5 5 3 4 7 7 7	44			5 2 1 2 4 2 2 1	19	2 0 0 0 1 1 2 4	10
31	6 5 4 2 3 4 7 5	36			2 1 1 2 2 1 0 4	13		

K-Indices for three-hour interval
Tromsø 1995
Range 2000 nT. for K = 9

Day	May	Sum	June	Sum	July	Sum	August	Sum
1	1 0 0 0 1 0 0 1	3	5 6 4 4 5 5 6 4	39	6 5 2 2 2 3 3 3	26	4 0 1 2 1 2 2 0	12
2	4 5 3 3 5 7 6 6	39	4 4 3 4 4 4 6 4	33	3 1 0 1 1 1 2 2	11	1 1 0 0 2 2 3 2	11
3	6 6 5 5 5 5 6 6	44	4 4 3 3 4 3 5 5	31	4 2 1 2 3 1 1 4	18	3 1 2 2 3 2 4 2	19
4	6 6 4 3 5 4 6 6	40	4 1 2 2 2 2 2 3	18	4 2 1 0 3 2 3 1	16	2 1 1 1 1 2 4 5	17
5	5 5 5 4 5 5 5 5	39	4 2 0 1 1 2 2 4	16	0 0 1 1 1 1 1 1	6	2 1 0 2 3 3 2 2	15
6	6 4 3 4 4 4 4 5	34	5 1 1 1 3 2 3 3	19	1 0 0 1 1 3 3 1	10	1 0 0 1 2 2 3 3	12
7	4 4 4 4 5 4 6 7	38	4 1 0 1 1 2 4 3	16	2 2 0 0 1 1 1 0	7	1 0 2 2 3 3 3 4	18
8	8 7 3 4 4 3 4 4	37	2 2 1 0 0 1 0 0	6	1 1 1 2 2 1 1 0	9	6 4 3 2 3 2 6 5	31
9	3 4 2 3 3 2 4 5	26	0 1 0 2 1 2 2 2	10	0 0 0 1 3 2 3 2	11	4 4 3 2 4 4 6 7	34
10	4 2 1 1 2 2 2 3	17	4 4 2 3 2 2 1 2	20	0 0 0 0 1 1 1 2	5	5 5 3 3 3 2 3 4	28
11	4 1 1 2 1 1 2 4	16	4 3 1 1 2 1 1 0	13	1 0 0 0 0 1 0 2	4	4 2 2 2 3 3 3 5	24
12	4 1 1 2 2 1 4 3	18	0 1 1 1 1 0 0 0	4	1 0 0 0 1 2 0 0	4	5 2 1 2 2 1 3 4	20
13	1 1 1 2 3 2 0 3	13	0 0 0 0 1 1 1 2	5	2 1 1 2 2 2 2 0	12	4 4 2 2 3 3 2 6	26
14	3 2 1 1 2 1 1 0	11	1 0 0 0 3 2 4 5	15	1 0 0 1 1 3 4 3	13	6 5 3 3 3 4 5 5	34
15	0 0 1 1 2 1 1 5	11	2 1 1 2 2 2 3 1	14	3 1 0 2 1 2 2 1	12	5 5 3 3 3 3 4 5	31
16	5 4 5 4 5 5 7 6	41	5 4 2 2 3 3 5 3	27	1 0 1 2 5 6 5 6	26	3 3 3 2 3 3 2 1	20
17	5 5 4 3 4 4 5 5	35	3 3 1 1 1 1 1 3	14	5 4 4 4 5 5 4 4	35	4 1 1 4 5 4 3 2	24
18	4 3 1 3 3 3 3 6	26	3 3 3 3 4 2 1 5	24	4 3 2 3 4 3 4 3	26	1 1 0 2 2 3 4 5	18
19	4 4 3 3 3 3 4 3	27	5 4 4 4 5 4 5 4	35	4 2 2 2 2 1 4 4	21	5 1 2 2 2 2 5 4	23
20	5 4 3 3 3 3 5 4	30	3 4 4 4 3 4 4 4	30	5 4 1 3 3 2 2 3	23	4 1 2 1 2 2 0 1	13
21	4 3 2 1 1 0 2 2	15	4 3 2 3 3 3 3 4	25	1 1 1 2 2 2 2 0	11	1 0 0 1 0 0 0 0	2
22	3 1 1 1 2 0 0 5	13	3 2 1 2 3 2 2 3	18	2 2 1 1 2 3 3 4	18	0 0 1 2 3 3 7 6	22
23	5 1 1 1 2 2 6 5	23	2 2 2 3 2 3 2 2	18	4 2 0 1 3 3 4 3	20	5 6 3 2 2 1 2 3	24
24	4 6 4 4 3 3 4 5	33	1 2 1 1 1 1 2 2	11	3 2 4 3 3 3 5 4	27	2 1 1 1 2 2 4 3	16
25	5 5 3 2 3 3 3 3	27	0 1 0 2 4 4 5 3	19	5 4 2 2 1 1 2 3	20	3 3 3 3 2 2 4 5	25
26	4 1 2 3 4 3 6 5	28	6 5 2 3 2 2 4 4	28	3 2 1 2 2 1 1 4	16	4 2 1 1 2 1 3 2	16
27	2 2 1 2 2 2 3 1	15	2 2 2 2 1 1 2 4	16	3 2 1 1 2 1 4 4	18	2 2 1 2 1 2 5 4	19
28	3 1 2 2 4 3 3 5	23	3 1 2 2 3 4 3 6	24	4 0 0 1 1 1 2 4	13	0 0 1 1 1 2 2 3	10
29	2 1 1 1 3 2 4 3	17	2 1 1 1 2 3 3 2	15	4 3 1 1 2 2 2 3	18	4 4 1 3 3 3 3 4	25
30	3 5 4 5 5 5 5 5	37	4 4 1 3 4 4 6 6	32	3 0 0 1 2 3 3 4	16	4 1 1 1 2 1 1 2	13
31	5 4 4 4 4 6 6 6	39			2 1 1 0 1 2 3 4	14	2 0 0 0 0 2 2 2	8

K-Indices for three-hour interval
Tromsø 1995
Range 2000 nT. for K = 9

Day	September		Sum	October		Sum	November		Sum	December		Sum
1	3 0 0 0	2 1 3 2	11	2 0 0 0	0 1 5 4	12	6 6 4 3	4 2 7 5	37	2 2 0 0	4 5 5 5	23
2	2 0 0 0	1 1 2 3	9	4 0 2 2	4 3 5 7	27	4 5 4 4	4 6 5 2	34	5 2 0 2	3 3 3 3	21
3	3 1 1 0	1 1 1 2	10	6 5 2 3	4 5 6 5	36	0 1 2 2	1 1 3 1	11	1 0 0 2	2 2 4 5	16
4	0 0 0 1	1 1 1 5	9	5 5 4 5	7 7 7 6	46	0 0 0 1	4 5 1 3	14	5 6 4 3	1 2 3 4	28
5	4 5 2 4	5 5 5 5	35	5 4 4 3	5 3 3 6	33	5 3 1 2	4 4 4 4	27	3 0 0 1	1 1 4 4	14
6	5 4 3 2	3 3 4 5	29	3 4 3 4	4 6 6 7	37	6 4 4 3	3 4 6 5	35	0 0 0 1	1 1 2 3	8
7	4 5 3 4	4 4 5 4	33	6 5 5 3	4 4 4 5	36	5 2 4 3	3 0 5 4	26	1 0 0 0	1 1 0 0	3
8	5 5 5 3	5 5 5 4	37	6 3 3 4	4 7 6 4	37	3 2 2 2	1 3 2 3	18	0 1 0 0	0 0 2 3	6
9	4 5 4 3	4 3 4 5	32	3 3 4 4	4 4 6 5	33	2 0 0 0	1 1 3 2	9	2 4 1 2	3 0 2 4	18
10	1 0 1 2	3 3 5 6	21	6 3 3 2	2 1 0 0	17	2 2 2 1	0 1 2 3	13	4 1 1 1	0 0 0 2	9
11	7 5 4 4	4 5 4 6	39	2 5 3 2	4 4 3 5	28	2 1 0 1	1 0 2 6	13	1 2 0 0	0 0 2 1	6
12	3 3 1 2	2 3 5 6	25	5 4 3 3	4 3 5 5	32	3 2 1 2	2 2 5 2	19	0 0 0 0	0 3 3 3	9
13	5 3 4 5	3 3 5 5	33	5 2 2 3	3 3 5 4	27	0 0 0 0	1 3 3 2	9	1 0 0 0	0 0 1 1	3
14	5 2 1 1	1 2 6 5	23	3 1 1 1	0 2 3 5	16	3 1 0 0	0 0 2 4	10	3 3 1 0	0 1 2 3	13
15	4 4 2 5	5 5 4 1	30	3 0 0 1	3 3 2 5	17	1 0 0 0	0 0 0 0	1	1 0 0 0	4 3 4 4	16
16	2 2 2 3	3 1 4 6	23	1 1 1 1	2 4 5 4	19	0 0 0 0	0 0 0 4	4	5 6 5 3	3 3 2 3	30
17	5 3 1 1	2 1 3 0	16	3 3 2 1	3 3 0 3	18	5 2 0 0	1 0 2 5	15	1 0 1 2	2 5 5 4	20
18	0 0 0 1	0 1 0 3	5	1 2 1 3	3 4 6 6	26	3 0 1 1	0 1 3 4	13	3 1 0 0	2 2 1 2	11
19	1 0 0 1	0 1 2 4	9	7 5 5 3	1 1 2 2	26	3 2 1 0	1 1 5 5	18	3 1 0 1	1 4 3 1	14
20	3 1 1 1	3 3 4 4	20	1 6 2 4	4 4 6 4	31	3 0 1 1	0 0 1 3	9	0 0 0 0	2 1 0 0	3
21	3 1 1 0	2 3 4 4	18	4 1 2 2	4 3 6 5	27	2 0 0 0	0 1 2 3	8	0 0 0 0	1 5 4 5	15
22	2 0 0 0	1 1 2 3	9	4 3 3 2	3 3 6 5	29	3 0 0 0	0 3 2 4	12	4 3 2 2	3 4 7 5	30
23	5 3 1 2	4 3 5 5	28	4 5 2 3	4 5 5 3	31	4 0 0 0	0 0 2 3	9	5 2 1 2	1 1 3 3	18
24	4 3 1 2	1 2 3 3	19	5 0 1 1	3 4 5 3	22	1 0 0 0	0 0 1 2	4	3 2 3 5	4 4 4 6	31
25	3 1 2 1	1 2 2 0	12	3 3 2 0	1 0 0 0	9	2 0 0 0	0 0 0 3	5	4 3 3 3	4 4 5 5	31
26	0 1 1 1	1 1 2 3	10	0 1 0 0	0 1 2 4	8	2 1 0 0	0 0 0 0	3	4 4 3 3	2 2 5 4	27
27	3 2 2 3	5 7 6 7	35	2 1 1 0	2 3 0 5	14	0 1 2 5	4 4 5 5	26	5 2 1 2	1 1 4 4	20
28	2 3 4 4	3 2 1 2	21	2 0 0 0	0 0 1 2	5	3 3 2 3	1 3 6 5	26	0 0 1 0	0 2 2 2	7
29	2 0 0 1	1 1 1 3	9	1 0 0 1	0 0 0 1	3	6 1 3 2	1 4 3 2	22	0 0 0 0	0 0 4 3	7
30	2 0 1 1	2 1 0 5	12	0 0 0 1	4 7 5 4	21	4 2 3 2	2 0 0 2	15	1 0 0 0	0 0 0 1	2
31				6 6 3 2	2 4 5 6	34				1 0 2 1	1 2 3 2	12

