

I. EARTH CURRENTS

In the present report of the Observatory, six kinds of tables are published in the section Earth Currents.

The coordinates of the Observatory are:

$$\begin{aligned} \varphi &= 47^{\circ}38' & \lambda &= 16^{\circ}43' \\ \Phi &= 47,2^{\circ} & A &= 98,3^{\circ} \end{aligned}$$

All times are given in this part in CET (i. e. GMT + 1h), nearly (—7 min) corresponding to LT.

The tables published are the following:

I. The activity indices T of the general activity for each three hour interval of the local day, as well as the character figures of single frequency bands for whole days K_1 — K_5 .

The T-scale is linear; its scale corresponds to 1.8 mV/km. The monthly mean T-values are separately given for the North-South and East-West components. The scales for K_1 — K_5 are follows:

Frequency band	limits between K-values								
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9
1. Period 0— 2 min	2	4	7	13	18	23	29	41	54
2. Period 2— 6 min	9	13	18	23	29	34	41	56	90
3. Period 6—12 min	16	22	25	32	38	45	56	83	120
4. Period 12—24 min	34	43	54	70	85	101	124	151	202
5. Period 24—60 min	29	43	67	88	110	131	191	234	339

All these values are given in the table in units of 10^{-5} V/km.

Values in brackets mean extrapolated ones from incomplete material, where the lacking hours have been substituted by the average of recorded hours.

II. Monthly and yearly means, and means for disturbed and quiet days of the amplitudes of the former frequency bands and of the earth current field intensity. D and Q days are the same as in section Geomagnetism. The rows 1—5 contain the average amplitudes of the five bands in 10^{-5} V/km. Row 6 contains the hourly means of the earth current scalar intensity corrected for long period variation (equally in 10^{-5} V/km.)

III. Results of harmonical analyses from monthly means of the earth current scalar intensity.

IV. Time of special events (common table from magnetic and earth current records).

The catalogue of Pc 1 events contains occurrence times, amplitudes and quality. Typical cases for the A, B and C events can be seen in the 1976 Observatory Report.

In this report, we publish also data from 1977 and 1978 for the Pc 1 activity. However, during a great part of these years, the recording was impossible due to restoration and building activities in the observatory.

V. Average amplitudes in 12 pulsation bands. Here numerical data are presented on the average amplitudes of pulsations for (nearly complete) months. Averages are derived from manually processed earth current records (6 mm min) for three-hour intervals of the day. Such averages (expressed in $\mu\text{V/km}$) are published for each month and for the year. As the bands where amplitudes are determined have different bandwidths, amplitudes are comparable in different bands only after a correction for bandwidth. Data for the same band are, however, directly comparable. Initial data are estimated amplitudes in half-hour intervals.

VI. Micropulsation indices for the year 1978. The indices have been determined from the occurrence frequency of different period micropulsations, striving at a possibly uniform distribution of days in each of the five possible indices (1—5).

The determination of these indices can be shortly explained as follows: The days are arranged according to the occurrence frequency of each band. Index 1 is attributed to the days with lowest fifth of occurrence frequencies (0 to 20 per cent), index 2 to days with occurrence frequencies in the second lowest fifth (20 to 40 per cent) etc., index 5 to days with highest occurrence frequencies (80 to 100 per cent). It must be reminded that mainly in the lowest and highest period bands the uniform distribution could not be achieved due to insufficient occurrence of these bands on the records.

The bands are the following:

P1	0	to	5 sec
P2	5	to	10 sec
P3	10	to	15 sec

P4	15	to	20 sec
P5	20	to	25 sec
P6	25	to	30 sec
P7	30	to	40 sec
P8	40	to	60 sec
P9	60	to	90 sec
P10	90	to	120 sec
P11	2	to	5 min
P12	5	to	10 min

For a detailed description of the method of determination of these indices, see:

L. HOLLÓ, M. TÁTRALLYAY and J. VERŐ: Experimental results with the characterization of geomagnetic micropulsations (*Acta Geodaetica, Geophysica et Montanistica Hungarica*, 7(1972)15).

Daily Pc 1 indices are determined on the basis of the duration of the events. The scale of the indices is the following:

- 0 no record
- 1 no Pc 1 activity
- 2 Pc 1 activity during 1 — 40 minutes
- 3 Pc 1 activity during 41 — 100 minutes
- 4 Pc 1 activity during 101 — 160 minutes
- 5 Pc 1 activity during more than 160 minutes

Mrs. J. CZUCZOR, L. HOLLÓ and J. VERŐ took part in the processing and compilation of the data.

Records were taken in the Observatory with three instruments of the types GMG T9/1956 and GMG T14/1962, with small modifications in order to meet the demands of the use in the observatory. A general description of the processing and compilation is found in the report of the Observatory from 1966 in German by A. ÁDÁM, J. VERŐ, A. WALLNER: *Tellurische und erdmagnetische Messungen im Observatorium bei Nagycenk. Observatoriumsberichte des Geophysikalischen Forschungslaboratoriums der Ungarische Akademie der Wissenschaften vom Jahre 1966*, Sopron, 1967.

I. Activity indices T and K_1-K_5

January							
Day	T	Sum	K_1	K_2	K_3	K_4	K_5
1.	12332104	16	4	2	5	0	0
2.	30123294	24	4	2	5	2	5
3.	51013164	21	4	1	5	3	4
4.	43236496	37	4	2	7	5	7
5.	54431242	25	3	0	4	2	5
6.	44437572	36	4	2	4	3	2
7.	31147896	39	5	2	4	3	4
8.	33311011	13	2	0	4	1	1
9.	38344421	29	4	1	5	1	3
10.	01011010	4	2	0	4	0	0
11.	11112000	6	3	0	4	0	0
12.	01113111	9	3	0	4	1	0
13.	30211100	8	4	2	4	0	0
14.	00122320	10	1	0	4	1	0
15.	01124253	18	2	0	4	1	2
16.	22122101	11	4	0	4	1	0
17.	01125131	14	3	0	4	1	1
18.	21123211	13	3	0	4	1	2
19.	44253212	23	2	0	5	1	2
20.	21123230	14	3	0	4	0	2
21.	13153221	16	3	0	4	0	1
22.	01242049	22	4	1	5	0	5
23.	32144399	35	4	1	4	3	3
24.	34143222	21	4	2	4	2	2
25.	87386646	48	5	3	5	3	6
26.	43322667	33	4	2	5	3	4
27.	52324269	33	4	2	5	3	4
28.	21144151	19	4	1	5	2	2
29.	22223112	15	3	1	4	1	2
30.	32145224	23	5	2	5	2	5
31.	22243122	18	5	1	4	1	4
Monthly averages:			T (N)	2,569			
			T (E)	1,661			
			K_1	3,52			
			K_2	0,97			
			K_3	4,45			
			K_4	1,52			
			K_5	2,52			

February

Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	11150000	8	4	1	4	8	2
2.	21133011	12	2	0	4	2	3
3.	11010193	16	3	1	5	3	1
4.	45224962	34	5	2	5	4	6
5.	51123000	12	4	0	5	1	2
6.	13113126	18	5	1	5	2	3
7.	11122102	10	3	0	5	1	1
8.	12131110	10	3	0	4	1	1
9.	21143113	16	3	0	4	1	3
10.	11111120	8	3	0	4	1	2
11.	44233001	17	3	1	5	4	2
12.	54448221	30	4	1	5	3	5
13.	00111000	3	4	1	4	0	0
14.	00000002	2	1	0	4	0	1
15.	01133310	12	3	0	5	1	3
16.	01124100	9	3	0	4	1	2
17.	01211101	7	0	0	4	1	1
18.	19783217	38	5	3	6	5	6
19.	53345321	26	4	1	5	3	4
20.	11120112	9	5	1	6	1	1
21.	19778999	59	8	8	8	7	8
22.	65369944	46	6	3	5	3	4
23.	89768535	51	6	4	5	3	2
24.	23245424	26	4	0	4	1	3
25.	21534116	22	3	0	4	1	4
26.	42222355	25	3	0	4	2	3
27.	72243420	24	3	0	4	1	3
28.	31145463	27	3	0	4	3	3

Monthly averages:

T (N) 2,509
 T (E) 1,562
 K₁ 3,68
 K₂ 1,00
 K₃ 4,68
 K₄ 2,11
 K₅ 2,82

March							
Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	33122211	15	3	0	4	1	2
2.	32132125	19	4	0	4	1	2
3.	32122321	16	3	1	4	1	0
4.	55236349	37	3	0	4	2	3
5.	32332031	17	4	0	4	2	2
6.	22155446	29	3	0	5	3	4
7.	11111012	8	2	0	4	2	0
8.	1.113111	9	3	0	4	1	1
9.	32054312	20	4	0	4	2	2
10.	65667469	49	4	2	5	5	4
11.	93363120	27	3	1	5	2	3
12.	00121011	6	2	0	4	0	0
13.	01121101	7	3	0	4	1	1
14.	00000001	1	3	0	4	0	0
15.	00312433	16	3	0	5	3	1
16.	32133202	16	4	0	5	1	2
17.	24747320	29	6	4	6	4	2
18.	31332200	14	3	0	4	2	2
19.	00235321	16	3	0	4	2	2
20.	11212102	10	4	1	4	2	1
21.	00112111	7	2	0	4	1	1
22.	10278963	36	6	2	6	4	4
23.	33432111	18	5	1	5	3	2
24.	22423122	18	3	0	5	3	1
25.	32153214	24	6	1	4	3	3
26.	53346345	33	5	0	5	5	6
27.	11355334	25	5	0	5	5	4
28.	32275734	33	4	1	5	5	6
29.	99505597	58	7	4	6	7	7
30.	54212112	18	4	0	4	1	1
31.	32122224	13	4	0	4	2	3
Monthly averages:		T (N)	2,597				
		T (E)	1,766				
		K ₁	3,81				
		K ₂	0,58				
		K ₃	4,52				
		K ₄	2,45				
		K ₅	2,32				

April

Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	54244319	32	4	2	5	2	5
2.	99435743	44	4	1	5	4	5
3.	12256699	40	7	2	5	3	6
4.	98445101	32	5	2	5	4	7
5.	78899963	61	9	8	8	8	3
6.	22123222	16	5	1	4	1	2
7.	21232121	14	3	0	5	1	1
8.	32222134	19	5	0	4	2	2
9.	32112112	13	3	0	5	2	2
10.	11233221	15	4	1	4	1	2
11.	11131212	12	4	0	4	2	0
12.	22332226	22	6	1	5	3	2
13.	41223222	18	5	1	4	1	3
14.	22333435	25	7	2	5	3	3
15.	32224314	21	6	2	4	2	3
16.	65442111	24	5	0	5	4	3
17.	32322113	17	6	2	6	3	2
18.	11121011	8	4	1	4	2	1
19.	11121010	7	4	0	4	1	1
20.	20111001	6	4	2	4	1	0
21.	01113634	19	4	0	5	5	6
22.	66845555	44	5	1	6	5	5
23.	53333311	22	5	1	5	3	2
24.	23212102	13	5	0	4	1	1
25.	99999749	65	9	9	9	9	8
26.	62122112	17	3	0	4	3	3
27.	12433345	25	6	1	5	3	3
28.	53544233	29	5	0	5	2	5
29.	45546539	41	7	2	7	5	7
30.	85346212	31	7	1	5	4	6

Monthly averages: T (N) 3,008
T (E) 2,404
K₁ 5,20
K₂ 1,43
K₃ 5,00
K₄ 3,00
K₅ 3,30

May							
Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	23423114	20	6	1	4	2	2
2.	64222111	19	5	0	4	2	4
3.	02111211	9	3	0	4	0	1
4.	10011012	6	3	1	4	0	1
5.	21112121	11	3	0	4	1	1
6.	10112111	8	3	0	4	2	1
7.	11112221	11	3	0	4	1	2
8.	11121212	11	4	1	4	0	2
9.	11543243	23	5	1	5	3	4
10.	11112212	11	5	1	4	2	1
11.	32336543	29	6	4	6	5	6
12.	23233212	18	6	3	5	3	3
13.	22222211	14	6	2	5	3	2
14.	12423412	19	4	2	5	3	4
15.	31323212	17	5	2	5	3	3
16.	11101011	6	4	1	4	1	0
17.	21111000	6	5	3	4	1	1
18.	11112142	13	4	1	4	1	0
19.	55334324	29	6	1	5	3	6
20.	23423223	21	5	1	5	2	2
21.	10111252	13	5	1	4	2	2
22.	34244464	31	6	2	5	3	6
23.	34211014	16	5	1	5	2	3
24.	24234235	25	5	1	4	2	4
25.	45544553	35	9	5	7	7	4
26.	44645523	33	7	5	7	6	6
27.	23424221	20	6	3	5	3	3
28.	22121231	14	5	1	4	1	2
29.	11212189	25	7	5	7	3	1
30.	96732210	30	4	4	7	5	2
31.	00152210	11	3	0	5	2	0
Monthly averages:		T (N)	2,101				
		T (E)	1,690				
		K ₁	4,94				
		K ₂	1,71				
		K ₃	4,81				
		K ₄	2,39				
		K ₅	2,55				

June

Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	01100011	4	2	0	4	0	0
2.	11112103	10	2	0	4	0	1
3.	10000111	4	2	0	4	1	0
4.	01011121	7	2	0	4	1	0
5.	11102201	8	1	0	4	1	0
6.	01034399	29	4	2	7	7	5
7.	98843422	40	6	4	6	6	7
8.	32331222	18	6	2	5	2	2
9.	22344434	26	7	4	7	3	3
10.	24322321	19	5	2	5	3	2
11.	13212211	13	5	0	4	2	2
12.	12210001	7	3	0	5	1	2
13.	11113212	12	3	0	5	1	1
14.	12221311	13	3	0	4	1	1
15.	12212222	14	4	0	4	1	2
16.	21123335	20	6	0	5	2	3
17.	11522421	18	5	0	5	3	2
18.	13111111	10	4	0	4	1	1
19.	14110000	7	2	0	4	1	1
20.	01113222	12	2	0	5	2	2
21.	22422232	19	3	0	5	2	4
22.	32312564	26	5	0	5	3	5
23.	24622225	25	6	2	5	3	6
24.	21121121	11	5	1	4	1	1
25.	21212162	17	6	1	4	0	1
26.	11113734	21	3	1	5	1	2
27.	31222100	11	4	0	4	1	2
28.	02211010	7	4	0	4	0	0
29.	10012131	8	3	0	4	0	2
30.	21111422	14	3	0	4	1	4

Monthly averages:

T (N) 1,712
 T (E) 1,442
 K₁ 3,87
 K₂ 0,61
 K₃ 4,61
 K₄ 1,65
 K₅ 2,06

July

Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	21321111	12	3	0	4	1	2
2.	12101011	7	4	0	4	0	0
3.	11286322	25	4	1	5	3	3
4.	24320001	12	2	0	4	1	2
5.	01121232	12	1	0	4	0	2
6.	13334185	28	5	1	5	3	5
7.	54423453	30	6	1	5	4	5
8.	32211222	15	5	1	5	2	1
9.	11111210	8	4	1	4	0	0
10.	11102111	8	3	0	4	0	0
11.	10110001	4	3	0	4	0	0
12.	01203632	17	4	0	5	2	4
13.	22532611	22	3	0	4	2	3
14.	11111223	12	3	0	4	1	1
15.	54321123	21	3	0	5	3	3
16.	32122213	16	4	0	4	1	2
17.	32323229	26	5	1	4	3	3
18.	56333323	28	6	2	4	2	3
19.	33432123	21	7	2	5	2	2
20.	02326334	23	3	0	5	2	6
21.	52111214	17	4	0	4	1	2
22.	12112110	17	4	1	4	1	1
23.	12211011	9	3	1	4	0	1
24.	21101011	7	2	0	4	1	1
25.	11110010	5	4	0	4	0	0
26.	11210096	20	3	0	5	1	4
27.	93314733	33	4	0	6	4	6
28.	63111124	19	5	1	5	2	2
29.	25434697	40	4	2	5	6	6
30.	83222111	20	4	0	5	3	3
31.	01100000	2	0	0	4	0	0

Monthly averages:

T (N) 1.935
 T (E) 1.637
 K₁ 3.71
 K₂ 0.52
 K₃ 4.45
 K₄ 1.65
 K₅ 2.23

August

Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	00027423	18	4	1	4	4	2
2.	31221220	13	3	0	4	2	1
3.	13121111	11	4	1	4	1	0
4.	11212215	15	3	0	4	1	3
5.	11110112	8	3	0	4	1	1
6.	32334221	20	4	1	4	3	5
7.	12111132	12	4	2	5	2	3
8.	11111111	8	4	1	4	1	2
9.	21112110	9	6	1	4	1	2
10.	11011124	11	4	0	4	2	2
11.	21212153	17	2	0	5	3	2
12.	21343157	26	3	0	5	5	4
13.	42579999	54	7	8	9	9	8
14.	41121121	13	4	1	4	3	1
15.	01111112	8	4	1	4	1	0
16.	11111100	6	3	1	4	0	1
17.	11111221	10	4	1	5	1	1
18.	10112325	15	6	2	5	3	2
19.	78695435	47	6	2	6	6	7
20.	43757797	49	8	6	7	8	6
21.	64327543	34	6	3	6	5	5
22.	34533331	25	9	6	7	2	2
23.	01222001	8	5	0	4	1	1
24.	00122452	16	7	1	4	3	4
25.	22364567	35	7	2	6	6	3
26.	43252131	21	5	2	4	2	3
27.	03332231	17	5	1	4	3	3
28.	31133102	14	5	2	4	1	1
29.	31859999	53	7	4	6	8	7
30.	73432111	22	5	3	5	3	3
31.	10224122	14	4	1	5	3	2

Monthly averages: T (N) 2,351
T (E) 1,871
K₁ 4,87
K₂ 1,74
K₃ 4,84
K₄ 3,03
K₅ 2,81

September

Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	11021123	11	3	0	4	2	1
2.	21111111	9	4	0	4	1	1
3.	42123011	14	3	0	5	4	2
4.	01243221	15	7	3	5	3	3
5.	25233326	26	5	2	5	3	5
6.	32222200	13	4	0	5	3	3
7.	22111011	9	6	2	4	1	1
8.	10121122	10	3	0	4	2	1
9.	10101111	6	3	0	4	1	1
10.	11112211	10	2	0	5	3	2
11.	10132611	15	3	0	5	2	3
12.	21011121	9	3	0	5	1	1
13.	52214112	18	4	0	4	2	2
14.	00131034	12	4	2	5	3	1
15.	22155121	19	5	0	6	4	2
16.	33375122	26	6	1	5	3	4
17.	13333313	20	6	1	5	4	3
18.	55959964	52	6	3	7	8	7
19.	22211221	13	3	0	5	2	2
20.	31229634	30	6	0	5	5	5
21.	84322131	24	3	0	5	3	3
22.	22112111	11	4	0	5	2	2
23.	01112210	8	3	0	4	2	1
24.	02132316	18	4	1	5	2	2
25.	14220134	17	4	0	5	1	5
26.	33343243	25	5	0	5	3	5
27.	36334122	24	4	0	5	3	4
28.	11311123	13	3	0	5	2	3
29.	32314122	18	6	1	5	3	4
30.	34553314	28	5	1	5	5	4

Monthly averages: T (N) 2,100
T (E) 1,504
K₁ 4,23
K₂ 0,57
K₃ 4,87
K₄ 2,77
K₅ 2,77

October

Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	31122100	10	3	0	4	1	1
2.	10022141	11	3	0	4	2	2
3.	33311342	20	6	2	4	2	3
4.	31291000	16	5	0	6	2	4
5.	00212123	11	4	0	5	2	2
6.	22229893	37	5	3	7	6	4
7.	24847627	42	5	3	7	7	6
8.	59257566	45	5	1	5	6	7
9.	53231242	22	4	0	5	3	3
10.	12232342	19	4	2	5	2	3
11.	10123111	10	3	0	4	2	2
12.	01122113	11	2	0	4	1	2
13.	52462132	25	6	1	5	5	3
14.	21351110	14	4	0	5	3	1
15.	00128121	15	3	0	5	3	2
16.	11143110	12	4	0	4	3	1
17.	11121101	8	2	0	4	0	1
18.	10110000	3	0	0	4	0	0
19.	10017212	14	1	0	5	2	1
20.	10121111	8	2	0	4	1	2
21.	22132317	21	2	0	4	1	5
22.	32242341	21	3	0	4	2	6
23.	11023101	9	3	0	4	2	3
24.	11233210	13	2	0	5	3	2
25.	01233122	14	2	0	4	2	3
26.	12122112	12	3	0	4	2	2
27.	00121112	8	3	0	4	0	2
28.	02122003	10	2	0	4	1	2
29.	32111122	13	2	0	4	1	4
30.	21120000	6	3	0	4	1	0
31.	00223111	10	3	0	5	2	1

Monthly averages: T (N) 1,883
T (E) 1,121
K₁ 3,23
K₂ 0,39
K₃ 4,58
K₄ 2,26
K₅ 2,58

November							
Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	21155233	22	3	1	6	3	6
2.	22233220	16	3	0	5	3	3
3.	00133123	13	4	0	4	2	2
4.	23222121	15	3	1	5	3	1
5.	00001011	3	3	0	4	0	0
6.	00011000	2	0	0	4	1	0
7.	01112231	14	2	0	4	2	2
8.	11245111	16	2	0	5	2	2
9.	12235445	26	3	1	5	4	6
10.	03131112	12	3	0	5	3	1
11.	14234432	23	4	2	5	2	6
12.	01223111	11	3	1	5	3	1
13.	34355859	42	5	3	6	4	8
14.	94121000	17	0	0	4	2	3
15.	01112000	5	0	0	3	1	0
16.	11322121	13	2	1	4	2	2
17.	31321022	14	2	0	4	1	1
18.	03121100	8	2	0	4	1	0
19.	00122102	8	2	0	4	1	0
20.	10123221	12	2	0	4	1	0
21.	11010100	4	1	0	4	0	0
22.	00011000	2	0	0	3	0	0
23.	00012011	5	1	0	3	0	0
24.	12136235	23	2	0	4	2	4
25.	24111001	10	2	0	4	1	2
26.	10001121	6	2	0	4	1	1
27.	12111000	6	2	0	4	1	0
28.	00000000	0	3	0	4	0	0
29.	00011221	7	2	0	4	1	1
30.	01964321	26	2	2	5	2	3
Monthly averages:		T (N)	1,488	T (E)	0,950		
		K ₁	2,17	K ₂	0,40		
		K ₃	4,30	K ₄	1,63		
		K ₅	1,83				

December							
Day	T	Sum	K ₁	K ₂	K ₃	K ₄	K ₅
1.	21132212	14	0	0	4	2	1
2.	31133011	13	2	0	4	1	2
3.	11222000	8	1	0	4	0	0
4.	11223491	23	2	0	4	2	5
5.	11121100	17	2	0	4	0	2
6.	11021001	6	2	0	3	1	1
7.	00001001	2	2	0	4	0	0
8.	01134221	14	3	1	5	2	4
9.	22243101	15	4	1	5	2	1
10.	00121131	9	3	0	4	1	1
11.	11011030	7	3	0	4	0	1
12.	10021111	7	1	0	4	0	1
13.	00011011	4	1	0	4	0	0
14.	00011011	4	1	0	4	0	1
15.	01033111	10	0	0	4	1	2
16.	11122111	10	1	0	4	1	2
17.	22223222	17	3	0	4	3	3
18.	11122001	8	2	0	5	2	1
19.	00111032	8	2	0	4	0	2
20.	00011211	6	0	0	4	1	1
21.	00010111	4	2	0	4	1	1
22.	31144132	19	3	0	4	2	3
23.	00011001	3	2	0	4	0	0
24.	31121211	12	2	1	4	1	2
25.	00000002	2	1	0	3	0	0
26.	01123325	17	4	2	4	2	1
27.	03144420	18	5	2	5	3	2
28.	01135315	19	4	2	4	2	2
29.	36264674	38	4	3	6	3	6
30.	53134252	25	4	1	4	3	4
31.	11212134	15	4	1	4	1	2

Monthly averages:

T (N)	1,427
T (E)	0,842
K ₁	2,25
K ₂	0,45
K ₃	4,13
K ₄	1,19
K ₅	1,75

II. Average amplitudes for different periods

Hour Parameter	0	1	2	3	4	5	6	7	8	9	10	11
January North												
1.	3	5	5	6	4	6	13	12	18	16	10	11
2.	4	5	5	4	3	3	5	8	16	16	9	11
3.	38	37	36	37	35	34	36	35	37	40	37	38
4.	55	40	46	35	37	42	35	36	35	38	39	48
5.	48	63	62	64	62	46	34	31	33	48	54	85
6.	+6	+3	+6	-13	-27	-25	-22	-26	+19	+22	-15	-42
January East												
1.	8	5	4	3	5	8	9	14	17	21	16	20
2.	5	4	5	3	4	8	5	9	12	14	13	13
3.	37	36	33	35	36	33	37	36	35	37	37	37
4.	43	33	37	24	30	35	27	30	32	45	36	44
5.	85	49	39	78	53	42	33	26	23	12	19	30
6.	-3	+9	-1	-6	+5	-10	-14	-24	+3	+40	+46	+30
February North												
1.	3	6	5	5	5	9	12	15	16	10	9	14
2.	2	6	3	2	5	7	11	15	17	10	7	10
3.	35	37	36	37	39	39	39	48	41	46	37	39
4.	39	35	60	53	44	65	44	53	58	52	47	65
5.	76	100	64	67	81	37	50	36	53	64	136	96
6.	+9	-1	+7	+6	-9	-10	-13	+13	+57	+22	-39	-82
February East												
1.	6	10	8	5	10	12	14	18	15	18	19	23
2.	5	3	3	5	6	10	10	15	14	10	10	14
3.	36	37	37	39	37	40	36	37	39	37	34	38
4.	45	34	48	41	48	51	37	37	29	44	44	42
5.	51	66	54	59	45	25	44	42	56	39	62	60
6.	-4	+6	-3	+1	+9	-12	-13	+6	+41	+53	+51	+34

and hourly means of earth current elements

12	13	14	15	16	17	18	19	20	21	22	23	Averages
Component												
14	13	12	11	7	3	6	5	6	3	4	5	8,3
13	12	9	10	6	3	6	6	6	4	5	5	7,2
38	38	37	34	37	37	33	36	36	35	34	38	36,4
51	57	41	34	45	34	42	59	51	45	37	47	43,0
73	48	62	85	49	56	76	142	100	87	104	89	66,8
—70	—41	—17	+14	+28	+24	+31	+27	+32	+39	+24	+24	

Component												
22	23	19	17	14	6	6	10	8	5	6	11	11,5
17	17	11	11	10	5	7	6	5	6	3	8	8,5
38	38	38	35	36	35	53	37	36	37	36	36	36,7
35	37	30	22	26	42	55	31	40	44	42	34	35,5
39	25	37	65	64	35	59	123	107	55	97	116	54,5
+23	+10	—2	—8	—13	—7	—26	—23	—15	+5	—7	—15	0

Component												
13	8	10	10	8	6	4	5	5	5	8	3	8,1
10	6	5	8	10	12	6	5	5	6	9	3	7,6
39	44	38	39	35	48	41	37	38	39	39	37	39,2
57	66	56	55	53	35	46	41	45	52	54	48	50,9
114	68	96	69	44	61	66	82	78	91	129	75	76,5
—88	—71	—11	+18	+40	+19	+16	+22	+25	+41	+27	+4	

Component												
20	21	19	20	19	8	7	6	6	8	18	8	13,3
15	12	10	14	12	13	4	7	10	8	15	8	9,7
39	50	37	39	49	48	37	37	45	37	43	38	39,2
64	43	23	43	49	33	42	42	74	51	37	46	43,7
33	46	68	46	30	45	53	66	46	73	107	77	53,8
—8	—12	—19	—25	—1	—29	—24	—20	—26	—8	+2	+1	

Hour Parameter	0	1	2	3	4	5	6	7	8	9	10	11
March North												
1.	4	5	6	5	9	8	10	16	15	13	7	12
2.	4	2	4	4	6	5	9	13	13	10	7	11
3.	36	37	37	37	36	38	37	45	38	38	39	42
4.	39	58	49	42	45	43	44	57	63	62	62	78
5.	95	69	57	75	28	20	40	33	42	57	48	89
6.	+8	+16	-8	+7	-5	-4	+2	+30	+65	+19	-72	-131
March East												
1.	9	5	3	5	6	8	16	21	27	24	19	22
2.	9	3	1	3	2	8	6	8	14	16	15	13
3.	35	36	34	36	37	36	37	41	37	38	41	38
4.	45	59	41	35	33	27	34	39	42	44	61	61
5.	103	71	60	59	33	41	33	32	29	50	31	61
6.	-10	+13	+8	-13	+12	+6	-5	-3	+35	+60	+42	+28
April North												
1.	10	11	9	8	13	23	27	25	28	28	23	24
2.	6	8	5	6	10	20	26	29	27	28	22	30
3.	36	38	39	40	40	49	40	64	55	55	56	60
4.	54	82	50	44	44	75	110	69	72	66	70	94
5.	154	92	125	149	91	63	61	76	38	61	64	53
6.	+17	+18	+24	+8	+9	-10	+18	+40	+29	-12	-97	-151
April East												
1.	16	12	12	15	16	26	36	37	36	40	43	39
2.	6	7	5	5	8	12	21	28	32	31	31	36
3.	43	41	39	42	43	46	44	66	67	54	57	61
4.	62	50	70	50	53	62	39	59	52	78	92	93
5.	95	119	57	98	97	61	74	41	34	33	32	30
6.	+24	+19	+1	+10	+8	-2	-12	+11	+33	+41	+15	-6

12	13	14	15	16	17	18	19	20	21	22	23	Averages
Component												
13	10	8	6	5	3	3	2	2	3	6	4	7,2
12	8	5	6	3	3	3	0	2	2	6	4	5,9
42	39	35	40	37	35	37	37	37	35	35	34	37,6
58	85	48	65	51	39	50	63	52	53	72	44	55,1
84	80	96	53	55	74	46	65	49	69	93	80	62,5
-129	-90	-17	+34	+75	+58	+39	+23	+32	+20	+25	+1	

Component												
27	21	20	16	13	9	7	3	3	7	11	9	13,0
17	11	9	8	8	6	3	2	3	1	8	6	7,6
38	39	37	37	38	37	38	36	37	35	37	36	37,1
55	42	53	64	63	41	48	37	41	46	45	42	45,7
44	64	49	45	30	59	57	89	67	71	67	96	55,8
+1	-6	-20	-14	-3	-13	-46	-38	-11	-6	-19	+1	

Component												
17	16	14	11	14	11	3	4	8	7	6	6	14,4
16	12	9	7	11	10	2	1	6	6	5	4	12,6
48	49	44	44	47	47	38	37	39	37	37	37	44,6
79	97	103	67	59	67	28	36	52	56	44	53	65,5
73	67	67	68	54	70	92	85	82	119	125	136	86,0
-164	-101	-16	+55	+68	+89	+48	+27	+20	+23	+32	+26	

Component												
35	33	31	27	26	16	8	7	10	13	13	11	23,2
23	19	18	16	16	15	5	3	7	8	5	10	15,3
56	48	47	48	44	49	37	38	36	38	38	44	47,0
58	91	83	61	55	62	40	40	42	59	51	61	61,0
61	48	76	60	56	95	75	64	107	123	103	92	72,0
-11	-5	+13	-9	-24	-28	-14	-27	-16	-19	-15	+12	

Hour Parameter	0	1	2	3	4	5	6	7	8	9	10	11
May North												
1.	7	8	13	13	16	18	18	21	16	16	11	12
2.	8	6	16	12	12	15	18	16	16	9	10	7
3.	39	37	47	37	38	40	42	43	39	39	39	38
4.	46	64	48	40	41	78	53	58	57	55	61	64
5.	70	49	99	72	69	51	96	48	66	67	71	66
6.	-5	+20	+13	+14	+39	+81	+61	+22	-32	-103	-147	-167
May East												
1.	10	12	14	15	16	21	35	35	33	30	26	31
2.	9	6	17	6	8	18	21	16	16	20	19	19
3.	46	39	51	38	37	36	36	44	46	37	51	39
4.	46	61	53	36	33	41	42	51	35	57	56	59
5.	57	48	43	57	53	34	38	32	45	33	45	49
6.	+2	+10	+17	-4	-7	+5	+21	+15	+30	+8	-20	-35
June North												
1.	7	6	8	10	10	11	10	14	14	11	8	10
2.	7	5	7	8	8	8	8	12	7	7	3	4
3.	38	36	37	37	42	39	40	38	41	38	37	36
4.	35	59	32	35	53	47	71	50	69	40	41	43
5.	77	38	56	37	37	77	79	65	24	31	55	46
6.	+11	+5	+3	+13	+51	+95	+71	+48	+6	-90	-153	-165
June East												
1.	7	6	10	10	11	12	19	21	23	25	25	23
2.	5	4	7	5	3	8	10	12	14	12	13	10
3.	37	36	35	37	36	36	39	40	39	35	39	37
4.	32	50	30	38	25	35	25	39	51	41	47	49
5.	65	36	44	17	47	63	55	31	36	20	36	42
6.	+13	+11	+13	-3	-10	+19	+36	+44	+46	+19	-10	-33

12	13	14	15	16	17	18	19	20	21	22	23	Averages
Component												
10	14	7	7	5	4	3	5	6	8	12	5	10,6
7	7	3	3	3	3	2	2	3	3	14	5	8,3
38	38	39	38	37	35	34	35	37	37	53	38	39,1
80	51	65	56	42	37	39	40	51	43	57	55	53,5
70	99	88	62	64	60	41	60	62	77	68	83	69,1
-139	-68	+23	+63	+93	+109	+67	+39	+1	-6	+22	-2	

Component												
29	32	27	20	16	14	13	10	10	12	13	9	20,2
20	20	18	10	12	10	6	3	6	9	15	5	12,8
37	39	40	38	39	37	37	36	38	39	58	38	40,7
67	51	50	64	46	38	42	39	48	57	71	63	50,2
69	47	69	54	73	81	51	71	49	57	53	51	52,4
-5	+20	+27	-3	-15	-13	-11	-20	-5	-9	-3	-6	

Component												
5	4	5	4	2	1	2	4	9	8	7	5	7,2
1	0	2	4	0	0	6	5	13	11	6	5	5,8
37	35	36	37	37	37	35	40	47	37	38	46	38,3
45	49	47	49	39	33	38	34	59	50	52	85	48,1
44	67	47	55	65	68	53	57	68	70	66	62	56,0
-127	-83	-26	+42	+84	+87	+64	+18	+7	+16	+15	+10	

Component												
19	19	19	13	13	7	7	7	14	11	8	10	14,0
13	8	9	7	7	2	3	6	11	11	8	6	8,1
40	43	40	38	38	38	34	37	46	41	38	38	38,2
36	45	65	41	41	35	41	43	79	55	46	43	42,3
35	41	39	76	83	92	76	70	74	49	52	100	53,3
-24	-11	-2	-13	-21	-14	-26	-31	-21	-2	+10	+13	

Hour Parameter	0	1	2	3	4	5	6	7	8	9	10	11
July North												
1.	8	10	10	9	13	13	15	12	15	11	11	8
2.	14	13	15	5	8	9	11	8	8	6	5	2
3.	37	38	37	36	36	38	37	37	36	36	36	37
4.	42	45	45	35	39	58	42	45	39	43	40	44
5.	77	96	62	39	38	55	8	39	37	20	36	48
6.	+25	+24	+16	+15	+34	+84	+78	+40	-7	-73	-143	-188
July East												
1.	12	8	9	8	6	13	21	20	20	22	21	23
2.	5	3	6	4	2	6	8	10	9	12	10	8
3.	38	38	37	36	35	34	33	37	35	35	33	33
4.	55	44	35	38	31	34	37	38	33	39	33	35
5.	60	57	39	20	42	31	45	18	31	26	47	58
6.	+2	+16	+16	-4	-12	+2	+28	+44	+55	+40	+21	-6
August North												
1.	6	7	9	13	15	19	23	20	21	20	17	14
2.	5	8	9	10	12	18	24	19	16	15	18	12
3.	37	37	36	36	37	38	41	45	42	38	41	39
4.	45	60	56	64	44	38	59	88	59	41	56	63
5.	45	87	54	48	48	57	76	59	31	53	76	64
6.	+19	+8	+23	+29	+14	+66	+78	+52	+7	-84	-146	-162
August East												
1.	11	8	9	14	13	21	28	31	30	31	33	29
2.	6	6	7	7	8	10	23	20	19	19	19	20
3.	36	38	35	35	34	38	38	41	37	37	46	44
4.	51	62	46	37	44	36	39	68	37	54	50	58
5.	55	39	53	39	13	26	59	22	36	42	63	50
6.	+10	+8	+3	+2	-5	+3	+42	+52	+71	+49	+2	-39

12	13	14	15	16	17	18	19	20	21	22	23	Averages
Component												
4	4	3	1	1	1	1	3	10	7	9	9	7,9
2	2	2	0	0	1	1	2	10	6	5	9	5,9
37	37	37	36	35	35	35	35	38	36	39	39	36,7
45	45	45	40	42	39	45	41	52	44	46	53	43,9
81	62	64	55	63	67	48	64	64	64	109	102	58,3
-166	-103	-30	+42	+93	+88	+60	+33	+12	+21	+12	+31	

Component												
20	17	17	12	8	9	6	6	10	9	13	10	13,5
9	9	9	7	5	5	3	3	9	8	9	6	6,8
37	37	35	37	35	37	37	44	37	36	41	38	36,4
37	37	40	42	51	43	38	60	55	39	59	52	41,8
85	48	61	67	60	75	75	73	78	64	82	80	55,1
-31	-24	-20	-23	-20	-27	-16	-17	-26	-12	+3	+9	

Component												
13	13	11	8	8	5	12	9	11	9	7	9	12,4
10	12	13	7	6	3	16	7	8	7	8	7	11,2
42	44	41	45	42	39	57	37	37	38	39	37	40,3
55	94	70	63	46	76	102	84	67	92	67	71	65,2
107	111	89	80	66	55	46	67	102	75	72	101	71,1
-145	-67	+12	+48	+88	+77	+36	+3	-8	+14	+18	+21	

Component												
34	33	26	22	21	19	17	9	11	12	10	12	20,2
23	22	13	18	16	9	17	8	11	16	8	11	14,0
49	48	45	49	45	44	55	42	41	46	38	42	41,8
66	62	106	62	51	101	97	74	51	56	67	73	60,3
92	129	59	61	80	61	99	82	131	79	85	92	64,3
-50	-29	-29	-20	-25	-27	-23	-8	-5	+18	+3	-4	

Hour Parameter	0	1	2	3	4	5	6	7	8	9	10	11
September North												
1.	8	8	7	7	9	11	20	14	13	9	8	9
2.	9	8	7	4	5	7	16	11	10	7	5	5
3.	38	40	40	37	37	40	52	46	37	39	43	38
4.	48	49	59	46	48	63	74	77	71	65	66	60
5.	90	76	91	95	82	44	27	25	57	33	91	106
6.	+6	+32	+16	+10	+15	+35	+73	+80	+41	-62	-170	-197
September East												
1.	13	10	8	10	13	19	25	24	24	23	25	24
2.	8	5	4	2	5	4	10	14	10	7	12	8
3.	37	35	38	38	38	38	43	38	48	35	37	39
4.	42	47	43	35	47	51	50	52	46	48	61	64
5.	89	76	74	60	62	33	28	41	39	57	44	58
6.	-10	+3	+15	+6	+1	-5	+21	+71	+75	+59	-15	-45
October North												
1.	3	3	5	8	5	9	12	15	11	8	10	6
2.	2	2	2	3	5	3	9	17	8	6	6	5
3.	36	36	38	37	35	38	38	42	42	39	41	39
4.	39	44	31	31	48	43	58	69	72	52	81	82
5.	64	59	63	113	41	62	42	29	48	52	46	107
6.	+3	+11	+8	-5	+3	+2	+36	+91	+107	+17	-92	-170
October East												
1.	6	3	3	6	7	6	16	19	16	18	14	16
2.	3	1	2	3	3	2	8	8	9	6	8	6
3.	36	36	36	36	34	44	37	36	39	33	51	37
4.	33	30	33	30	40	48	33	33	28	37	59	47
5.	67	36	31	67	28	38	39	38	52	44	37	67
6.	-6	+10	+8	+2	-8	-8	-13	+23	+54	+69	+62	+29

12	13	14	15	16	17	18	19	20	21	22	23	Averages
Component												
10	8	10	9	6	5	3	3	5	7	4	7	8,5
9	5	8	5	2	2	2	2	5	4	5	8	6,3
43	39	44	41	37	38	37	37	38	37	36	38	40,0
68	78	59	49	55	68	37	42	41	76	48	41	58,0
85	132	73	49	71	38	71	56	67	83	78	89	71,3
-131	-37	+20	+69	+79	+60	+10	+28	+3	+16	-8	+10	

Component												
23	26	23	21	16	11	5	4	7	10	8	8	15,8
12	7	11	8	7	4	2	2	7	5	6	9	7,0
42	43	40	38	37	39	36	33	36	36	38	39	38,3
62	62	58	53	47	48	46	49	50	53	57	50	50,9
57	77	37	42	65	65	52	49	53	61	77	68	57,0
-29	-24	-19	-4	+1	-23	-35	-17	-14	-10	-2	-5	

Component												
6	6	9	8	5	5	6	2	5	5	7	4	6,7
7	5	5	8	4	2	2	0	6	5	5	5	5,0
39	53	42	45	36	36	37	35	36	38	38	36	38,9
81	63	63	55	44	56	47	45	39	36	46	42	52,7
100	69	90	57	53	46	84	61	65	84	137	70	68,4
-152	-96	-1	+50	+54	+33	+17	+5	+6	+24	+33	+15	

Component												
17	17	17	12	10	7	6	3	6	5	10	8	10,3
9	8	6	8	5	5	3	3	2	5	8	5	5,2
39	45	39	39	37	37	37	39	37	35	35	35	37,8
45	49	48	49	53	48	48	55	45	42	41	41	42,3
67	36	53	40	30	45	72	39	40	86	73	61	48,6
-8	-24	-11	+2	-1	-31	-41	-38	-19	-17	-25	-10	

Hour Parameter	0	1	2	3	4	5	6	7	8	9	10	11
November North												
1.	0	3	3	4	2	4	5	13	9	11	7	4
2.	0	0	1	2	2	2	4	9	10	16	6	6
3.	36	35	33	34	35	32	32	34	38	36	37	41
4.	37	40	32	41	46	38	38	36	53	50	48	51
5.	49	37	36	109	52	53	42	49	30	51	58	71
6.	+4	+11	+5	-19	+5	+11	+11	+44	+84	+38	-52	-128
November East												
1.	2	1	2	4	4	4	5	8	11	10	7	7
2.	1	2	3	4	5	4	5	7	7	10	5	9
3.	33	33	31	34	36	34	32	35	32	34	34	37
4.	34	38	28	48	36	34	34	32	31	30	42	38
5.	38	26	37	36	23	23	22	27	26	38	25	41
6.	-5	+2	-7	-9	-9	-8	-1	+13	+47	+74	+70	+38
December North												
1.	1	3	5	3	3	2	3	8	10	8	5	5
2.	1	5	3	3	2	1	2	4	8	9	4	5
3.	36	34	34	34	36	34	35	34	38	40	44	35
4.	37	38	37	38	39	36	38	33	39	47	44	47
5.	49	59	44	27	39	49	37	27	22	25	52	81
6.	-10	-23	-26	-20	-18	-15	-7	+6	+43	+37	-5	-60
December East												
1.	2	3	5	1	5	4	6	6	9	8	11	9
2.	5	3	2	3	5	1	5	4	6	3	6	8
3.	31	35	33	33	33	34	33	34	35	35	33	36
4.	30	33	28	31	30	30	26	35	27	41	44	44
5.	46	30	33	27	35	43	33	25	30	19	35	37
6.	-5	+3	-2	-5	-17	-20	-21	-14	+22	+47	+59	+38

12	13	14	15	16	17	18	19	20	21	22	23	Averages
Component												
6	8	6	4	2	2	2	4	4	4	3	2	4,7
9	10	5	5	3	1	2	4	4	5	5	1	4,7
38	39	38	38	34	34	34	32	36	35	32	33	35,3
52	67	65	48	41	41	44	38	56	36	44	34	44,8
84	58	59	46	69	71	63	70	34	76	40	49	56,5
—111	—53	—8	+10	+11	+6	+23	+7	+38	+38	+15	+10	
Component												
9	10	5	6	2	2	3	4	4	4	5	2	5,0
8	6	5	4	5	6	5	5	7	5	8	4	5,4
36	38	37	34	34	29	33	34	32	31	28	29	33,3
50	39	55	34	36	33	36	45	37	35	34	29	37,0
35	47	31	41	42	49	43	31	46	67	54	49	37,4
—2	—7	—4	—4	—15	—19	—19	—31	—31	—37	—25	—11	
Component												
5	8	7	6	3	3	3	3	5	6	3	2	4,6
8	10	5	5	3	3	2	4	3	8	3	3	4,3
35	35	35	38	34	36	34	33	40	35	35	35	35,8
41	58	47	39	40	37	37	33	43	34	44	37	40,1
66	58	39	39	44	54	96	76	37	50	45	62	49,1
—75	—58	—15	+15	+23	+18	+19	+37	+46	+44	+32	+15	
Component												
11	11	10	10	6	5	3	8	3	8	4	3	6,3
8	7	5	5	6	4	4	5	5	7	5	8	5,0
37	37	34	38	34	34	33	30	35	33	35	33	34,1
43	41	41	26	32	31	35	38	36	40	40	42	35,2
33	38	30	51	48	54	75	80	49	59	48	66	42,7
+10	—2	—3	—2	+3	—9	—15	—20	—8	—24	—6	—8	

Hour Parameter	0	1	2	3	4	5	6	7	8	9	10	11
Year 1979 North												
1.	5	6	7	8	9	11	14	15	15	14	10	11
2.	5	6	6	5	6	8	12	13	13	12	8	9
3.	37	37	37	36	37	38	39	43	40	40	41	40
4.	43	51	46	42	44	52	56	56	57	51	55	61
5.	78	69	81	75	56	51	49	43	40	47	66	76
6.	+8	+10	+7	+4	+9	+26	+32	+37	+35	-22	-94	-137
Year 1979 East												
1.	8	7	7	8	9	13	19	21	22	23	22	22
2.	6	4	5	4	5	8	11	13	14	13	13	14
3.	37	37	37	37	36	37	37	40	41	37	41	40
4.	43	45	41	37	37	40	35	43	37	46	52	53
5.	68	55	47	51	44	38	41	30	36	36	40	49
6.	+1	+9	+6	-2	-3	-2	+6	+20	+43	+46	+27	+3

12	13	14	15	16	17	18	19	20	21	22	23	Averages
Component												
10	9	8	7	6	4	4	4	6	6	6	5	8,4
9	7	6	6	4	4	4	3	6	6	6	5	7,1
40	41	39	40	37	38	38	36	38	37	38	37	38,5
59	68	59	52	47	47	46	46	51	51	51	51	51,8
82	77	73	60	58	60	65	74	67	80	89	83	66,0
-125	-72	-7	+39	+61	+56	+36	+22	+18	+24	+21	+14	

Component												
22	22	19	16	14	10	7	7	8	9	10	8	13,9
15	12	10	10	9	7	5	5	7	7	8	7	8,8
41	42	39	39	39	39	39	37	38	37	39	37	38,4
51	50	53	47	46	46	47	46	50	48	49	48	45,3
54	54	51	54	55	63	66	70	71	70	75	79	53,9
-11	-9	-7	-10	-11	-20	-25	-24	-16	-10	-7	-2	

Hour Parameter	0	1	2	3	4	5	6	7	8	9	10	11
Quiet days North												
1.	4	4	5	5	7	7	9	12	11	8	5	8
2.	4	2	3	4	5	4	7	6	6	4	3	3
3.	36	35	34	33	35	33	35	35	36	38	36	35
4.	42	32	31	29	34	39	39	38	42	36	38	38
5.	25	23	27	29	25	23	28	22	23	22	28	30
6.	+12	+15	+15	+11	+23	+39	+44	+37	+38	-26	-103	-142
Quiet days East												
1.	5	2	4	5	5	8	13	10	12	13	14	15
2.	3	2	3	3	2	3	5	6	7	6	7	5
3.	34	36	33	35	34	34	33	33	34	33	33	33
4.	32	32	30	30	25	32	27	31	29	33	32	35
5.	28	17	23	17	24	16	20	14	24	23	23	24
6.	+1	+1	0	-3	-11	-4	+7	+20	+41	+39	+21	-3
Disturbed days												
1.	6	7	14	12	14	23	31	33	32	36	28	39
2.	8	9	12	12	15	27	40	46	40	37	33	48
3.	41	42	39	42	43	58	45	94	61	66	75	80
4.	51	102	66	86	65	113	141	138	93	103	102	136
5.	175	133	199	198	158	89	168	93	55	80	156	143
6.	-1	+33	+20	+41	+6	+29	+11	+19	+18	-22	-84	-111
Disturbed East												
1.	14	15	15	19	15	24	48	48	40	51	55	52
2.	8	9	8	9	12	18	34	46	39	46	45	53
3.	41	44	41	46	44	51	57	96	95	59	66	71
4.	69	97	59	51	60	81	73	101	69	101	111	102
5.	127	82	152	168	157	101	146	75	51	70	134	98
6.	-5	+17	-12	+15	+33	-7	+1	+2	+45	+52	+32	+21

12	13	14	15	16	17	18	19	20	21	22	23	Averages
Component												
6	6	4	3	4	2	1	4	5	3	3	3	5,4
4	3	3	1	1	1	1	3	5	4	4	3	3,4
35	35	35	35	34	33	33	34	35	36	35	35	34,9
37	35	33	35	33	30	34	31	32	37	40	33	35,3
34	31	31	29	22	24	23	26	30	34	29	38	27,4
-135	-65	-9	+36	+53	+44	+25	+20	+19	+20	+16	+11	

Component												
16	14	12	9	7	5	5	3	5	5	5	3	8,1
7	6	6	4	5	3	3	3	5	5	5	4	4,5
34	34	35	35	33	32	34	33	34	33	33	34	33,8
32	29	31	32	30	31	30	32	32	33	32	36	31,1
26	23	26	28	26	31	26	28	34	32	33	40	25,2
-16	-15	-12	-8	-5	-9	-14	-19	-5	-8	-1	+2	

Component												
26	22	21	15	18	15	11	8	13	15	10	6	18,9
33	24	17	12	19	13	16	3	11	13	13	4	21,1
57	60	50	49	51	55	57	41	48	44	42	37	53,1
94	120	115	75	87	112	126	120	98	114	103	95	102,4
179	213	111	167	120	151	128	153	136	132	240	173	147,8
-134	-95	-25	+13	+47	+80	+54	+8	+18	+14	+33	+28	

Component												
55	42	33	34	32	29	17	16	21	18	16	12	30,0
39	33	28	22	30	28	17	14	15	12	9	10	24,3
72	60	52	54	53	60	49	45	42	41	41	46	55,3
75	132	129	93	111	133	122	97	82	111	59	81	91,6
107	138	109	129	149	134	142	161	155	123	215	188	129,6
-16	+19	+6	-24	-32	-60	-38	-26	-7	-15	-4	+2	

III.

Results of harmonical analysis of the daily variations

	A ₁	φ_1	A ₂	φ_2	A ₃	φ_3	A ₄	φ_4	A ₅	φ_5	A ₆	φ_6
North Component												
January	27	142	17	230	17	72	15	273	3	118	4	327
February	25	116	28	255	24	95	24	286	4	192	4	63
March	34	119	47	273	40	96	23	289	5	186	7	51
April	49	118	54	285	45	100	21	285	5	217	4	272
May	53	122	81	308	36	134	3	105	1	104	8	310
June	51	107	78	297	37	137	5	134	6	260	7	36
July	61	107	79	295	41	124	3	224	2	7	6	338
August	47	106	70	303	46	133	5	317	8	273	6	289
September	42	107	69	302	54	133	27	347	7	250	7	56
October	34	91	53	272	57	114	31	306	9	204	1	74
November	27	91	37	254	31	112	27	312	11	153	11	15
December	21	139	32	229	18	99	18	275	7	115	2	65
Year	38	112	50	286	36	117	14	299	3	198	4	4
Q	40	102	52	289	35	123	16	306	3	163	5	10
D	47	107	45	288	30	92	12	258	7	227	6	307
East Component												
January	14	307	16	113	9	343	8	229	3	54	8	4
February	20	338	17	149	12	35	11	236	3	140	2	87
March	23	338	14	136	10	42	10	238	5	43	10	39
April	17	353	7	117	8	72	8	307	10	144	1	8
May	9	359	4	355	11	148	14	356	5	194	7	336
June	21	17	7	222	18	130	7	347	5	243	6	311
July	24	6	14	193	16	86	6	335	1	239	6	263
August	26	20	23	218	16	108	14	321	2	215	3	343
September	25	6	15	231	22	104	17	319	7	231	6	95
October	29	331	15	146	18	53	14	269	6	42	3	103
November	31	318	15	148	18	45	6	244	8	98	2	291
December	17	296	16	128	15	25	8	236	4	68	1	342
Year	19	345	10	163	11	75	7	291	2	124	2	4
Q	13	347	11	188	12	79	6	284	1	175	1	11
D	26	349	16	131	1	312	11	292	12	130	3	67

IV.

*Special phenomena
(magnetic and earth current date)*

SSC-s

Month	Day	CET (GMT+1h)	Amplitude in E(mV/km) H(gamma)		Ex	Ey	Hx	Hy	End of Storm	
01.	04.	18.15	9	100	+	+	+	—	01.05	05.00
	07.	13.15 (?)	10	35	+	(?)	— (?)	+	01.08	01.00
	09.	04.45	10	45	+	+	+	—	01.09	18.00
	25.	02.45	12,5	30	+	+	+	—	01.25	23.00
02.	03.	19.15	12	28	+	+	+	—	02.04	05.00
	11.	02.45	9	30	+	+	+	—	02.11	07.00
	18.	04.00	12,5	55	+	+	+	—	02.18	12.00
	21.	04.00	18	50	+	+	+	—	continued	
		16.45 (?)	> 18	65	+	+	+	—	continued	
	22.	12.00 (?)	12,5	50	+	+	+	—	continued	
		15.45 (?)	> 20	60	+	+	+	—	02.24	00.00
03.	04.	05.45	12	22	+	+	+	—	03.05	13.00
	09.	09.00	8	26	+	+	+	+	03.11	20.00
	15.	07.00	5,5	18	—	+	+	+	continued	
	17.	03.30	11	30	+	+	+	—	03.17	20.00
	22.	09.30	13,5	30	+	+	+	—	03.23	03.00
04.	03.	11.00	10	22	—	+	+	+	04.04	16.00
	05.	03.00	14,5	60	+	+	+	—	04.05	20.00
	25.	01.00	11	85	+	+	+	—	04.26	02.00
05.	29.	19.45	14,5	55	+	+	+	—	continued	
		22.00	> 25	120	+	+	+	—	05.30	09.00
	31.	10.30 (?)	11	22	+	+	+	—	05.31	12.00
06.	06.	20.30	> 12,5	110	+	+	+	—	06.07	18.00
07.	06.	20.30	15	65	+	+	+	—	07.07	22.00
	26.	19.30	8	45	+	+	+	—	07.28	04.00
	28.	22.00	4,5	18	+	+	+	—	07.30	02.00
08.	01.	12.45	7	32	+	+	+	—	08.02	02.00
	13.	07.15	11	28	—	—	—	+	08.13	23.00
	20.	07.30	11	22	+	+	+	—	continued	
		18.00	?	110	+	+	+	—	08.21	22.00
	29.	06.00	8	28	+	+	+	—	08.30	03.00
10.	06.	12.15	18	80	+	+	+	—	10.06	20.00
11.	09.	13.00	6,5	18	+	+	+	—	11.09	23.00
	11.	03.15	10	28	+	+	+	—	no storm	
	18.	03.15 (?)	7	14	+	+	+	—	no storm	
	30.	08.30	14,5	30	+	+	+	—	11.30	18.00

<i>Bays</i>					<i>Pt-s</i>				
Month	Day	CET (GMT+1h)	Amplitude in		Ex	Ey	Hx	Hy	Ex Ey
			E(mV/km)	H(gamma)				E(mV/km)	
01.	01.	23.45	9	45	—	+	+	+	tr
	02.	18.45	14,5	95	+	+	+	+	
	03.	19.00	10	70	—	—	—	+	
		23.45 (si?)	6,5	18	—	—	—	0	
	04.	19.00	28	130	+	+	+	+	tr
		22.45	11	40	—	+	+	+	tr
	06.	02.30	5,5	15	+	+	+	—	
		18.30	7,5	35	+	+	+	+	
	07.	01.00							3(pg, 8min period)
	13.	00.45	7	35	+	+	+	+	tr
	15.	20.15	9	35	—	+	+	+	tr
	17.	18.45	4,5	23	—	+	+	+	4,5 + +
	19.	02.00	7	40	—	+	+	+	tr
	21.	11.00	7	17	+	+	+	—	
	22.	20.30	8	45	+	+	+	—	tr
		23.15	12,5	70	+	+	+	—	tr
	24.	02.45	10	55	—	+	+	+	
	25.	03.00	14,5	80	+	+	+	—	tr
	26.	16.45	9	70	—	+	+	+	tr
		23.30	16	80	—	+	+	—	tr
	27.	19.30	12	55	+	+	+	—	
		22.00	14,5	70	—	+	+	+	tr
	28.	19.45	7	50	—	—	—	+	
	30.	22.30	4,5	45	—	+	+	+	tr
02.	04.	16.00	14,5	85	—	—	—	+	
	05.	01.00	6	30	+	+	+	—	tr
	06.	22.30	9	60	—	+	+	+	tr
	07.								2 — +
	09.	21.45	5,5	28	—	+	+	+	tr
	12.	01.30	5,5	25	+	+	+	—	tr
	18.	10.45	14,5	45	—	—	—	+	

Bays					Pt-s						
Month	Day	CET (GMT+1h)	Amplitude in		Ex	Ey	Hx	Hy	Ex	Ey	
			E(mV/km)	H(gamma)				E(mV/km)			
02.	18.	21.30	12,5	75	—	+	+	+	tr		
	21.	22.30	28	100	—	—	—	+			
	25.	22.00	12	28	+	+	+	—			
	26.	21.30	10	42	+	+	+	—	tr		
	27.	01.30	10	65	+	+	+	—	tr		
		10.30	5,5	22	—	—	—	+			
	28.	01.45	5,5	28	+	+	+	—	tr		
		18.45	10	40	+	+	+	+	tr		
03.	02.	01.30	7	35	+	+	+	—	tr		
		21.00	6,5	45	—	+	—	+	tr		
	04.	01.15	9	48	+	+	+	—	tr		
		23.30	20	80	—	+	+	+	tr		
	05.	20.00	4,5	32	—	+	+	+	tr		
	06.	21.30	9	65	—	+	—	+	tr		
	10.	13.00	12,5	50	—	—	—	+			
	11.	00.00	20	85	+	—	+	—	tr		
	14.	22.30							3,5	+	+
	20.	22.00	4,5	20	+	+	+	0	3,5	+	+
	25.	22.30	9	40	—	+	+	—	tr		
	26.	11.00	7	18	+	+	+	—			
		13.15	11	22	—	—	—	+			
		21.45	9	45	—	+	+	+	tr		
	27.	11.30	8	25	+	+	+	—			
	28.	03.15	6,5	35	+	+	+	—	tr		
	29.	00.30	16	95	+	+	+	—	tr		
		03.00	14,5	100	+	+	+	—	tr		
	30.	01.45	12,5	55	+	+	+	—	tr		
	31.	01.00	8	32	+	+	+	—	2	+	+
	23.45	8	45	+	+	+	—	tr			
04.	01.	22.45 (ssc?)	18	85	+	+	+	—	tr		
	04.	12.45	11	45	—	—	—	+			
	12.	23.30	9	48	+	+	+	—	tr		
	14.	22.45	7	55	—	0	+	+	tr		
	17.	01.30	4,5	18	+	+	+	—	2,5	+	+
		05.30							4 (pg. 5min period)		
	21.15	7	28	+	+	+	—	2,5			

<i>Bays</i>					<i>Pt-s</i>						
Month	Day	CET (GMT+1h)	Amplitude in		Ex	Ey	Hx	Hy	E(mV/km)		
			E(mV/km)	H(gamma)						Ex	Ey
04.	20.	00.30	3,5	13	+	+	+	—	2,5	+	+
	22.	00.30	6,5	55	+	+	+	—	tr		
	25.	21.00	18	70	—	+	+	+	tr		
	26.	00.15	9	55	+	—	+	—	tr		
	29.	22.00	21,5	85	+	—	+	+	tr		
05.	02.	02.15	9	55	+	+	+	—	tr		
	09.	20.45	9	45	+	+	+	+			
	16.	21.45	3,5	12	+	+	+	—			
	19.	01.30	9	45	+	+	+	—	tr		
	22.	22.30	8	50	—	+	+	+			
	23.	21.30	7	40	—	—	—	+	2,5	+	+
	28.	19.00	5,5	35	+	+	+	+			
	02.	23.15	6,5	18	—	—	—	—	2	+	+
	03.	21.30	3,5	15	—	+	+	+	2,5	+	+
	04.	20.45	4,5	15	—	—	+	—			
06.	06.	15.30	5,5	22	—	—	—	+			
		23.45	> 24	120	+	+	+	—	tr		
	11.	00.45							2	+	+
	13.	01.30	2,5	10	+	+	+	—			
	17.	06.15	9	28	—	—	—	+			
	18.	20.15							2,5	—	+
	20.	13.30	5,5	28	+	+	+	—			
		21.15	4,5	25	—	+	+	+	3,5	+	+
	22.	01.15	5,5	35	—	+	+	+	2	+	+
		17.15	12	25	—	—	—	+			
		19.00	12	35	—	—	—	+			
	23.	06.15	11	28	+	—	+	—			
		22.00	7	48	—	—	—	+	tr		
	25.	20.45							13,5	+	+
	29.	20.00	8	35	—	+	+	+	tr		
07.	01.	00.30	3,5	10	—	—	—	+			
	03.	11.45	13,5	52	+	+	+	—			
	09.	16.45	4,5	32	+	+	+	+	tr		
	11.	22.15							2,5	+	+
	12.	17.00	9	30	—	—	—	+			
	13.	16.00	11	40	—	—	—	0	tr		

Days					Pt-s						
Month	Day	CET (GMT+1h)	Amplitude in		Ex	Ey	Hx	Hy	Ex	Ey	
			E(mV/km)	H(gamma)				E(mV/km)			
07.	15.	00.30	7	42	—	+	+	+	tr		
	16.	22.00	5,5	28	—	+	+	+			
	17.	22.45	9	52	—	—	—	+	tr		
	18.	22.15	4,5	25	0	+	+	0	tr		
	19.	00.30	4,5	35	+	+	+	—	2,5	+	+
		22.30	6,5	18	+	+	+	—	5,5	+	+
	20.	23.45	10	45	+	+	+	—	3,5	+	+
	21.	21.45	5,5	28	—	+	+	+	tr		
	22.	23.00							2	+	+
	27.	01.45	14,5	80	+	+	+	—	tr		
		17.45	14,5	55	+	+	+	—			
	29.	19.30	11	35	—	—	—	+			
		22.30	18	45	—	—	—	+			
08.	02.	19.30	4,5	12	—	—	—	+			
	04.	21.30	8	38	—	+	+	+	tr		
	07.	01.30	3,5	18	+	+	+	—	2,5	+	+
		19.45	6,5	22	+	+	—	+	2	+	+
		20.45	4,5	32	—	—	—	+	tr		
	09.	00.45	4,5	25	+	+	+	—	2,5	+	+
	10.	21.00	8	22	+	+	+	—			
	11.	19.15 (ssc ?)	11	30	+	+	+	—			
	12.	20.30	9	32	—	—	—	+			
		22.30	10	28	—	—	—	+			
	17.	02.00							3,5	+	+
		17.00	6,5	18	+	+	+	—			
	18.	15.00	6,5	28	+	+	+	—			
	25.	23.15	11	35	—	—	—	+			
09.	26.	20.00	4,5	22	—	+	+	—	tr		
	28.	01.45	4,5	30	+	+	+	—	2,5	+	+
	29.	17.45	> 30	130	+	+	+	—	tr		
	01.	20.30	5,5	38	+	+	+	—	tr		
	03.	02.15	6,5	28	+	+	+	—	tr		
	05.	21.00	10	72	—	+	+	+	tr		
	06.	02.30	8	35	+	+	+	—	tr		
	08.	20.30							2,5	+	+
	11.	16.30	12,5	32	—	—	—	+			

Bays					Pt-s						
Month	Day	CET (GMT+1h)	Amplitude in		Ex	Ey	Hx	Hy	Ex Ey		
			E(mV/km)	H(gamma)					E(mV, km)		
09.	13.	00.00	11	45	—	+	+	+	tr		
		14.15	4,5	25	+	+	+	—	tr		
		22.45	2,5	15	+	+	+	0	2,5	+	+
	14.	20.45	5,5	32	—	+	+	+	tr		
	15.	11.15	9	35	+	+	+	—			
	16.	01.15	6,5	22	+	+	+	—	2	+	+
		10.30	6,5	25	—	—	—	+			
		23.30	5,5	30	+	+	+	—	tr		
	20.	23.15	7	35	+	+	+	+	2,5	+	+
	21.	01.30	15,5	60	+	+	+	+	tr		
	24.	21.15	3,5	18	—	+	+	+	2,5	+	+
		22.00	12,5	50	+	0	—	—	tr		
	25.	03.45	8	55	—	+	+	+			
		21.15	6,5	32	—	—	—	+			
	26.	02.15	5,5	35	+	+	+	—	3,5	+	+
		20.30	12,5	42	—	+	+	+	tr		
	27.	04.00	12,5	45	—	+	+	—			
	29.	23.30							2,5	+	+
	30.	22.00	8	35	—	+	+	+	tr		
10.	01.	01.45	5,5	28	+	+	+	—	tr		
	02.	23.45	5,5	35	—	+	+	+	tr		
	03.	17.30	9	45	—	—	—	+	tr		
	04.	11.15 (?)	14,5	42	+	+	+	—			
	05.	23.45	5,5	18	+	+	+	—	tr		
	07.	21.00	14,5	60	—	—	—	+	tr		
	08.	03.00	21,5	70	+	+	+	—	tr		
		17.45	12,5	50	—	—	—	+			
		21.45	9	65	—	+	+	+	tr		
	09.	19.30	6,5	40	—	—	—	+	tr		
	10.	19.45	6,5	55	—	+	+	+	tr		
		22.45	5,5	25	—	+	+	+	2	+	+
	12.	23.45	8	45	—	+	+	+	2	+	+
	14.	10.00	9	25	+	+	+	—			
	16.	11.30	8	28	+	+	+	—			
	20.	20.45							2,5	+	+
	21.	11.30	6,5	22	+	+	+	—			
12.15		6,5	18	—	—	—	+				
22.00		16	42	+	+	+	—	2,5	+	+	
22.	17.45	9	35	—	+	+	+	tr			

<i>Bays</i>					<i>Pt-s</i>							
Month	Day	CET (GMT+1h)	Amplitude in		Ex	Ey	Hx	Hy	E(mV/km)		Ex	Ey
			E(mV/km)	H(gamma)								
10.	26.	22.45	3,5	25	+	+	+	—	2,5	+	+	
	27.	21.45	3,5	15	—	+	+	+	2,5	+	+	
	28.	22.00	5,5	28	—	+	+	+	4,5	+	+	
		23.45	7	40	—	+	+	+	tr			
	29.	21.30	3,5	18	—	+	+	+	2	+	+	
11.	01.	00.30	5,5	28	—	+	+	+	tr			
		11.00	11	18	—	—	—	+				
	03.	21.15	5,5	28	—	+	+	+	tr			
	07.	14.45 (ssc?)	5,5	18	+	+	+	—				
		19.15	7	28	—	+	+	+	tr			
	13.	16.30	14,5	80	+	—	—	—	tr			
		23.30	12,5	60	—	+	+	+	tr			
	17.	20.45	4,5	18	—	—	—	+	2,5	+	+	
	19.	22.15	4,5	22	+	—	—	—	tr			
	24.	22.00	6,5	50	—	+	+	+	tr			
12.	26.	20.15	3,5	28	—	—	—	+	2,5	+	+	
	27.	03.30	4,5	12	+	+	+	—				
	30.	23.00	4,5	12	—	+	+	—	2,5	+	+	
	02.	02.30	5,5	30	+	—	0	—	tr			
	04.	17.45	21,5	80	—	+	+	+	tr			
	09.	10.45	8	18	+	+	+	—				
	10.	18.00	4,5	35	—	+	+	+				
	12.	11.15	3,5	12	+	+	+	—				
		21.30	4,5	22	+	+	+	—	tr			
	17.	00.15	4,5	35	—	+	+	+	tr			
		22.45	4,5	22	—	+	+	+	3,5	+	—	
	19.	21.45	2,5	22	+	+	+	+	2,5	+	+	
	23.	23.45							2,5	+	+	
	24.	00.30	4,5	18	+	+	+	—	2,5	+	+	
	25.	23.30	3,5	12	—	—	—	+				
	26.	21.15	8	38	—	+	+	+	2,5	+	+	
	27.	17.00	8	50	—	+	—	+				
	28.	12.00	6,5	40	—	—	—	+				
		23.00	8	35	+	+	+	—	2,5	+	+	
	29.	04.30	11	40	—	+	—	—	tr			
	30.	19.15	8	50	+	+	+	+	2	+	+	
	31.	18.45	7	25	—	+	+	+	tr			
		23.30	10,5	40	+	+	+	—	2	+	+	

Further Pi-traces

Month	Day	CET	Month	Day	CET	Month	Day	CET
01.	06.	00.30	03.	26.	18.30	06.	18.	23.00
	09.	01.30		27.	22.15		20.	20.45
	11.	02.30		29.	18.45		21.	19.45
		03.00		30.	23.30		22.	23.00
	12.	23.30	04.	04.	22.30		24.	18.30
	13.	23.15		08.	21.45		25.	00.00
	18.	00.30		11.	23.30		28.	18.45
	20.	00.00		17.	11.45		29.	01.15
		23.30		19.	16.00			12.00
	25.	21.30		20.	21.00			23.45
	26.	20.15		21.	20.45		30.	00.45
	31.	20.45			21.30			01.00
02.	06.	00.15		24.	21.00			01.15
		00.45		26.	22.30			02.00
	07.	17.30		29.	20.30	07.	01.	02.00
	08.	16.30	05.	02.	20.30		02.	20.45
	09.	00.00		03.	03.00		03.	02.00
		23.30			22.00			22.45
	11.	00.30		05.	00.00		04.	03.15
	14.	22.00		11.	01.15			05.30
	16.	01.00			22.45		08.	20.30
	25.	21.00		14.	15.30			21.15
	26.	00.45		17.	00.30			22.15
03.	02.	01.00			02.30			22.45
	06.	00.15		18.	09.15		10.	20.00
		21.00		22.	23.30			21.15
	08.	01.15		24.	21.30		11.	22.30
		23.45	06.	05.	02.00		12.	22.30
	09.	00.30		11.	01.30		13.	23.30
	10.	23.45		12.	21.30		14.	00.45
	11.	00.45		15.	19.45			20.45
	13.	22.15			20.15		16.	20.30
	14.	21.00			20.45		17.	22.30
		21.30			21.15		19.	21.15
	19.	23.15		16.	21.00			22.00
	20.	16.45			21.15		23.	02.45
	25.	00.15			21.30		24.	00.15

Further Pi-traces

Month	Day	CET	Month	Day	CET	Month	Day	CET
07.	24.	00.30	09.	07.	21.30	10.	06.	04.30
	25.	20.00			23.45		11.	21.30
	28.	02.30		08.	00.30			22.15
	30.	00.30		09.	00.45		17.	22.30
08.	02.	00.15			03.00		19.	23.30
	04.	20.45			17.00		20.	07.15
	05.	04.45			20.15		22.	01.45
	06.	22.30			23.30		23.	03.00
	07.	20.15		11.	23.30		25.	03.15
		21.45		12.	00.30		27.	16.45
		22.30		13.	21.30	11.	04.	20.00
	10.	02.15		14.	19.45			22.45
		23.15			20.15		05.	20.45
		23.30		15.	21.15		20.	22.45
	15.	21.30		16.	00.00		21.	00.45
		22.00			00.30		23.	20.30
	16.	00.45		20.	02.15		28.	17.30
	17.	02.30			22.15	12.	05.	23.30
	18.	20.45		21.	00.45		06.	21.45
		21.00		22.	00.00		09.	21.15
		23.30			01.00		11.	19.15
	22.	19.15			02.45			19.45
		19.30		23.	17.30		12.	20.30
	24.	17.30		25.	20.00		13.	20.45
	28.	22.45		27.	23.15			21.45
		23.15		30.	00.00		16.	19.30
		23.30			00.15		19.	19.00
		23.45			21.45		22.	01.00
	29.	00.45	10.	02.	01.45			01.15
	30.	01.30		03.	08.30		24.	00.45
		23.30			18.45		31.	02.45
	31.	20.30			23.15			21.15
		21.30			23.30			
09.	02.	00.45		05.	20.30			
	03.	19.15			20.45			
	07.	01.30			21.15			

SI-s

Month	Day	CET (GMT+1h)	Amplitude in		Ex	Ey	Hx	Hy
			E(mV/km)	H(gamma)				
01.	01.	06.45	6,5	14	—	—	—	+
	05.	08.30	5,5	18	—	+	+	+
	06.	22.45	3,5	10	+	+	+	—
	07.	00.30	5,5	18	+	+	+	—
	08.	07.15	7	12	+	+	+	—
	17.	04.00	2	6	+	+	+	—
	22.	01.30	6,5	35	—	—	—	+
02.	23.	22.30	6,5	18	—	—	—	+
	25.	07.45	8	17	+	+	+	—
	03.	15.	15.45	6,5	—	—	—	+
03.		19.45	5,5	12	—	—	—	+
	04.	19.	11.30	3,5	8	+	+	+
05.	18.	03.15	2,5	7	—	—	—	+
06.	17.	10.45	3,5	12	+	+	+	—
	18.	01.45	2,5	7	+	+	+	—
	19.	04.45	6,5	20	—	+	—	+
	30.	18.45	3,5	14	—	—	—	+
	07.	12.	13.45 (ssc?)	6,5	22	+	+	—
07.	13.	09.15	4,5	12	—	—	—	+
	17.	21.45	4,5	12	—	—	—	+
	19.	07.00	7,5	16	—	—	—	+
		07.45	7	16	—	—	—	+
	28.	22.15	8	18	+	+	+	—
	08.	13.	00.00	12,5	28	—	—	+
	15.	12.45	3,5	10	—	—	—	+
08.	21.	01.00	12,5	25	—	—	—	+
		21.30	5,5	18	+	+	+	—
	23.	13.15	5,5	14	+	+	+	—
	09.	04.	15.45	3,5	12	+	+	—
	17.	04.45	5,5	12	—	—	—	+
09.	18.	04.45	8	16	—	—	—	+
		21.45	7	18	+	+	+	—
	21.	20.00	6,5	14	—	—	—	+
	22.	04.00	5,5	14	+	+	+	—

SI-s

Month	Day	CET (GMT+1h)	Amplitude in		Ex	Ey	Hx	Hy
			E(mV/km)	H(gamma)				
09.	30.	10.00	8	18	—	—	—	+
		15.00	4,5	10	+	+	+	—
10.	07.	05.30	7	18	—	—	—	+
	13.	19.30	2,5	8	—	—	—	+
	16.	08.45	3,5	7	+	+	+	—
11.	08.	22.00	2,5	7	—	—	—	+
	29.	17.45 (ssc?)	4,5	12	—	—	—	+
	30.	18.45	3,5	8	—	—	—	+
12.	08.	08.30	4,5	12	—	—	—	+
	09.	05.45	3,5	7	+	+	+	—
		07.15	5,5	12	—	—	—	+
	22.	13.00	9	20	+	+	+	—
	30.	23.00	4,5	14	—	—	—	+

Needles

Month	Day	CET (GMT+1h)	Amplitude in E(mV. km)	Ex	Ey
01.	06.	07.45	9	+	+
		15.45	7	—	—
02.	12.	13.15	6,5	—	—
03.	23.	09.30	5,5	—	—
	29.	09.30	5,5	—	—
04.	14.	16.15	3,5	—	—
05.	08.	17.30	2,5	—	—
	22.	17.30	3,5	—	—
06.	03.	15.30	2	+	+
07.	19.	16.15	8	—	—
08.	13.	07.45	4,5	—	—
	14.	09.45	2,5	+	+
	15.	12.30	2	—	—
09.	17.	15.30	3,5	+	+
10.	03.	05.30	2,5	—	—
	05.	14.30	2	+	+
	07.	12.30	5,5	—	—
		15.00	5,5	—	—
	19.	12.45	9	+	—
11.	01.	16.15	2,5	—	+
	26.	13.30	2	—	—
	29.	20.15	4,5	+	+

1977

Pc 1-events

Month	Day	Duration		Quality	Month	Day	Duration		Quality
1.	1.	423	— 506	B	3.	1.	351	— 437	C
		1700	— 1826	C			446	— 525	C
		2100	— 2136	B		16.	540	— 625	C
		2149	— 2344	B			2216	— 2338	C
	3.	221	— 239	A		17.	725	— 808	C
		722	— 816	A		21.	2001	— 2222	C
	4.	711	— 742	A		23.	1928	— 2150	C
	10.	2218	— 2233	C		26.	2240	— 2305	C
	11.	114	— 134	C		27.	502	— 523	C
		607	— 710	C	4.	7.	1733	— 1857	B
	19.	535	— 715	C		8.	2034	— 2120	B
	31.	1550	— 1844	C		10.	302	— 402	B
		2000	— 2202	C			2047	— 2130	B
2.	1.	154	— 336	C		12.	325	— 453	C
		611	— 810	C			215	— 613	C
		1320	— 1516	C		13.	136	— 235	A
	2.	2226	— 2236	C			346	— 433	C
		2240	— 2250	C		14.	304	— 700	B
		2311	— 2321	C		16.	1916	— 2057	C
	3.	508	— 517	C		18.	2240	— 19. 126	C
		526	— 612	B		19.	157	— 407	B
		720	— 742	C		20.	1946	— 2127	B
	4.	237	— 255	C			2333	— 21. 056	C
		518	— 633	B		21.	2100	— 2337	C
	5.	406	— 418	C		22.	011	— 105	C
		434	— 442	C			2214	— 23. 205	B
		458	— 526	C			035	— 702	C
		540	— 601	A	5.	4.	350	— 600	C
	6.	444	— 530	B		14.	125	— 430	C
		2005	— 2107	C			later no		
	13.	058	— 121	C			recording		
		815	— 858	B					
	17.	107	— 121	C					
		2140	— 2235	C					
	21.	2158	— 010	C					
	22.	2353	— 23. 118	B					

1979

Pc 1-events

Month	Day	Duration		Quality	
1.	11.	2216	— 12.	035	C
	12.	256	—	404	C
		417	—	815	C
	13.	033	—	244	C
		302	—	714	C
2.	10.	606	—	642	C
4.	7.	418	—	445	C
	7.	418	—	630	C
8.	25.	312	—	442	C
9.	2.	515	—	538	C

V.

Average amplitudes in 12 pulsation bands
(monthly averages for 3 hour intervals in $\mu\text{V/km}$)

January												
CET	Periods											
	1—5	5—10	10—15	15—20	20—25	25—30	30—40	40—60	60—90	90—120	120—300	300—600 sec
0— 3	2	5	16	33	39	19	15	29	58	84	105	179
3— 6	0	5	19	30	60	62	21	17	26	21	184	123
6— 9	0	2	15	61	91	87	40	14	7	14	169	234
9—12	0	2	15	67	102	108	36	13	24	36	227	229
12—15	0	0	15	52	202	177	31	9	9	38	249	241
15—18	0	0	16	51	110	123	26	9	7	12	156	131
18—21	0	4	8	49	63	47	25	10	0	76	141	149
21—24	1	7	11	25	38	36	16	33	44	93	84	96
Average	1	3	14	47	90	84	27	17	21	46	166	174

February												
0— 3	1	8	14	18	21	30	26	11	15	94	96	329
3— 6	0	5	13	26	56	47	32	29	9	29	131	366
6— 9	0	3	10	34	64	91	107	56	5	22	187	275
9—12	0	1	12	28	48	105	106	40	6	29	169	236
12—15	0	0	2	20	55	122	107	66	7	3	164	244
15—18	0	0	5	17	67	95	77	34	31	33	196	264
18—21	0	3	7	32	42	29	23	26	14	29	77	181
21—24	1	9	14	18	28	23	19	21	16	154	136	185
Average	0	4	10	24	47	67	62	35	13	50	144	261

CET	March											
	Periods											
	1—5	5—10	10—15	15—20	20—25	25—30	30—40	40—60	60—90	90—120	120—300	300—600 sec
0— 3	1	17	31	22	20	17	8	16	53	140	81	119
3— 6	1	9	18	35	60	38	15	8	15	40	152	166
6— 9	0	1	5	39	91	112	106	43	6	20	134	213
9—12	0	0	22	41	40	95	189	70	24	96	136	273
12—15	0	0	6	40	48	96	137	32	8	80	232	113
15—18	0	1	7	21	40	67	86	45	8	32	226	132
18—21	0	8	21	30	35	21	14	11	23	74	191	205
21—24	0	15	28	16	16	28	11	8	28	153	156	131
Average	0	6	17	31	44	61	72	29	21	79	162	170

April												
0— 3	0	14	39	27	31	14	16	18	59	97	354	296
3— 6	0	8	43	56	90	39	26	40	21	71	317	309
6— 9	0	0	15	48	168	226	227	21	32	42	393	352
9—12	0	0	1	18	179	276	183	46	86	59	424	415
12—15	0	0	1	29	161	232	170	31	45	79	140	220
15—18	0	0	1	32	95	111	88	56	8	83	289	294
18—21	0	3	27	52	42	25	10	22	21	92	205	98
21—24	0	13	31	44	18	10	16	8	50	213	290	159
Average	0	5	20	38	97	116	91	30	40	92	302	267

May												
CET	Periods											
	1—5	5—10	10—15	15—20	20—25	25—30	30—40	40—60	60—90	90—120	120—300	300—600 sec
0— 3	0	12	55	41	30	16	27	20	93	80	81	236
3— 6	0	5	46	101	135	75	35	13	11	63	124	160
6— 9	0	0	9	102	269	302	87	5	6	21	229	259
9—12	0	0	4	38	235	307	102	0	6	61	172	317
12—15	0	0	0	30	200	321	152	25	7	58	170	177
15—18	0	0	4	64	142	112	109	20	8	51	190	302
18—21	0	4	28	58	57	29	22	26	38	106	183	233
21—24	0	9	63	36	32	18	17	27	38	163	110	199
Average	0	4	26	59	138	149	69	17	25	75	157	236

June												
0— 3	0	16	24	21	24	27	32	36	70	113	96	136
3— 6	0	3	28	68	60	46	23	8	41	24	100	80
6— 9	0	2	17	88	173	192	63	22	3	26	127	125
9—12	0	0	5	38	201	233	76	43	0	26	138	173
12—15	0	0	8	52	126	138	86	30	11	134	210	210
15—18	0	0	14	41	64	66	21	51	11	129	206	182
18—21	0	5	26	45	32	24	22	32	39	239	150	210
21—24	0	15	30	32	31	11	15	22	92	271	61	172
Average	0	5	19	48	88	91	42	30	34	120	135	160

July												
CET	Periods											
	1-5	5-10	10-15	15-20	20-25	25-30	30-40	40-60	60-90	90-120	120-300	300-600 sec
0- 3	0	13	18	26	26	21	25	26	53	150	59	102
3- 6	0	6	24	63	58	33	31	19	20	59	63	230
6- 9	0	0	13	115	205	194	96	23	24	81	89	115
9-12	0	0	2	62	259	196	113	38	11	45	147	174
12-15	0	1	3	65	144	165	75	37	12	165	213	202
15-18	0	1	10	41	58	38	35	66	33	117	238	85
18-21	0	4	22	39	23	14	19	42	28	129	152	148
21-24	0	11	31	29	11	9	19	16	140	275	100	78
Average	0	5	15	55	98	84	52	33	40	120	133	142

August												
0- 3	0	9	18	20	41	51	54	50	49	191	76	129
3- 6	0	1	28	90	48	72	94	47	28	41	79	115
6- 9	0	0	23	83	200	171	165	56	40	94	345	47
9-12	0	0	44	93	113	296	216	75	24	99	259	272
12-15	0	0	40	47	154	150	226	62	18	67	258	461
15-18	0	0	3	32	63	111	129	59	8	61	297	492
18-21	0	5	25	32	34	30	38	47	120	222	176	307
21-24	0	11	21	29	21	27	36	50	126	228	126	254
Average	0	3	25	53	84	114	120	56	52	126	203	262

September											
CET	Periods										
	1—5	5—10	10—15	15—20	20—25	25—30	30—40	40—60	60—90	90—120	120—300 300—600 sec
0— 3	0	14	23	25	37	24	32	39	133	271	39 150
3— 6	0	5	14	71	104	100	58	13	31	50	108 158
6— 9	0	1	8	48	165	207	158	31	33	52	163 168
9—12	0	0	7	14	127	239	180	33	0	106	137 136
12—15	0	0	4	28	128	203	172	54	6	60	194 227
15—18	0	2	8	38	92	118	112	48	39	78	140 193
18—21	0	8	21	28	45	41	34	71	44	98	102 224
21—24	0	8	15	28	27	25	39	46	104	282	144 95
Average	0	5	13	35	91	120	98	42	49	125	128 169

October											
0— 3	0	4	22	24	35	38	33	26	67	70	40 75
3— 6	0	3	17	25	100	89	60	24	41	43	44 52
6— 9	0	1	10	28	45	175	147	77	11	63	98 94
9—12	0	0	6	17	34	106	315	35	14	52	106 108
12—15	0	0	1	15	46	121	264	70	19	50	154 310
15—18	0	0	10	36	43	85	116	48	24	92	166 201
18—21	0	1	12	34	46	37	34	35	28	100	105 185
21—24	0	8	15	28	27	25	39	46	104	82	144 95
Average	0	2	13	24	45	84	127	43	38	95	102 150

November

CET	Periods											
	1—5	5—10	10—15	15—20	20—25	25—30	30—40	40—60	60—90	90—120	120—300	300—600 sec
0— 3	1	10	11	8	17	29	37	45	36	100	26	69
3— 6	1	9	10	18	29	58	56	66	36	51	94	134
6— 9	0	6	14	39	43	45	78	48	32	72	130	81
9—12	0	0	21	40	37	43	105	74	22	99	147	133
12—15	0	1	18	24	26	49	102	81	23	76	186	148
15—18	0	0	16	28	36	54	48	50	25	68	143	208
18—21	0	4	19	25	27	30	30	29	32	195	135	159
21—24	0	5	16	10	18	21	30	33	37	159	81	117
Average	0	4	16	24	29	37	61	53	30	103	118	131

December

0— 3	0	3	8	18	32	29	36	39	38	111	51	42
3— 6	1	2	7	22	30	69	67	54	33	42	69	132
6— 9	0	3	12	48	75	50	70	39	21	46	149	129
9—12	0	1	23	58	117	63	84	43	23	96	141	218
12—15	0	0	14	37	37	102	153	37	15	53	107	127
15—18	0	2	16	34	37	63	90	34	38	78	144	63
18—21	0	3	13	31	42	40	40	29	34	130	168	46
21—24	0	2	12	33	22	26	31	31	40	193	94	133
Average	0	2	13	34	47	54	71	38	30	95	115	111

CET	Yearly average											
	Periods											
	1—5	5—10	10—15	15—20	20—25	25—30	30—40	40—60	60—90	90—120	120—300	300—600 sec
0— 3	0	10	23	24	29	26	28	29	61	125	92	155
3— 6	0	5	22	51	69	61	43	28	26	45	123	170
6— 9	0	2	12	61	133	155	112	36	18	46	185	176
9—12	0	1	13	42	123	170	142	42	20	68	183	224
12—15	0	0	9	36	111	157	140	44	15	66	189	222
15—18	0	1	9	37	75	87	78	43	20	69	199	212
18—21	0	4	19	38	41	31	26	32	35	124	149	178
21—24	0	9	25	27	23	22	23	27	67	205	123	147
Average	0	4	17	39	76	89	74	35	33	94	156	186

VI.

Micropulsation indices for the year
1979

Activity indices for the micropulsations
(P1 to P12)

1979. January-December

	January	February	March	April
1.	112234542124	114345432322	355235521532	155352212554
2.	125553113355	112345522341	155323324523	155334124555
3.	125541111455	111344532134	254234414511	125435414355
4.	455421135555	123554324145	155531222555	
5.	415444215555	352433542453	144443544135	155553114455
6.	235443122255	135444212553	255424214554	125445221152
7.	355542125355	112455512334	255234414542	
8.	224454121355	135345312411	143123554511	155523512544
9.	125531122345	113355421422	335533114545	115454211554
10.	112454321421	111145532212	145553114555	135355111252
11.	111454113111	125442212345	135224553545	112553111243
12.	111454241251	155433312555	123135523342	115534421544
13.	112355413321	111135543111	111135541412	115345521254
14.	112553112132	111344212232	122434531421	145334511555
15.	115552111552	124444312455	155533211355	155544411455
16.	132355212224	113333541221	155444222452	144335532455
17.	112455111241	111245431124	123335531455	134135544545
18.	115543112253	135543222555	141115552354	144452245542
19.	145454222554	233323554545	125124554544	142345523243
20.	111444321331	113223554413	131123554343	122212555541
21.	112454322434	155521331455	144435212244	145453421555
22.	122355332333	255433133555	145333522555	155323423555
23.	255541112555	155333442355	115522332355	135235542255
24.	155554111555	155115532545	155343223244	155353434321
25.	145553114255	114345522544	155342222555	115533315555
26.	153355311555	255111113522	155224313553	155553122444
27.	134455331354	255234332343		145455414555
28.	112455111322	355334423545	155234325555	155344423545
29.	122355311543		155233213555	155433215555
30.	114553113345		155124521354	145453414555
31.	113355224133		115434412443	

	May	June	July	August
1.	155344314545	121355522244	145553212524	155343421555
2.	155245414453		122445512533	125543333544
3.	125552324422	124552113542	115433512353	142354443542
4.	155453214542	135553213154	155531112543	125331233541
5.	155553114455	115552113352	115531121254	135543224343
6.	114551121153	125531123455	115444431544	115453215553
7.	115554112554	155225513555	155435212555	155344335542
8.	145552124534	155245334535	135354414555	121554144511
9.	115553111555	135255534554	125334554442	122155453511
10.	115555321443	125335522534	125444432531	125434434552
11.	115553311545	155355524514	115543423522	155543222544
12.	135555311545		145533341553	145541122555
13.	114554512545		155452115545	135432444555
14.	113555222554		155552114543	224244454534
15.	115455333244	155455234554	155531125555	155324534552
16.	112335531341	135455115554	155551134542	112455332524
17.	121235542533	145455333544	135454522545	135345422545
18.	125542122554	124544333542	155554224534	144334524524
19.	155444114554	155543123541	134355344532	155521325555
20.	115355321235	145541124544	115543134555	145531213555
21.	155233214522	155521114554	154444225534	135424525555
22.	155542325555	155541113555	125453143543	111235533524
23.	115355323434	155454233555	113324553521	111135531114
24.	155354115545	145433144533	155532113544	115335523444
25.	125555122555	135334345424	114333453523	115524532555
26.	155455313545	145532434554		125433323554
27.	115345534344	115455211144	155531231535	124345542543
28.	155255435534		155334524524	133123553523
29.	145354324544	145534214541	155511132555	
30.	125423424555	135552122534	125443144554	
31.	115334323245		115411111111	

	Szeptember	October	November	December
1.	123355312414	114245533234	145444343555	135432433555
2.	134354222521	114325531555	155224555533	125334435554
3.	153355324443	115234555545	153235553524	124445422545
4.	115355321544	115543424412	124432554524	155311345552
5.	145544424555	115325534515	122223555511	115552314531
6.	155355424422	115442325555	113215542122	123323534542
7.	121225544511	135423443545	125225543452	115323541521
8.	153245441532	135321425555	125322454545	125543324545
9.	152233554521	144233514533	125453223555	113433552445
10.	155531125553	155223515531	115123553345	125333554543
11.	135444334443	112444224542	135522121555	125325543532
12.	135542123534	145245423545	155431334555	155423445543
13.	143235524521	155124534535	155422225555	115521443241
14.	111345433433	122445412144	115531214543	115434423323
15.	115544312345		111223531221	125534221554
16.	155434525545		115224354551	245532235544
17.	145234524535	121434311441	153135524524	125544314545
18.	135333345555	111345412421	113333543254	
19.	115442442555	111244443223	235312555535	115245511521
20.	145344312555	123334522554	125223544543	135432121231
21.	155234434355	155322523554	135534315522	115432323122
22.	125444414525	125433424543	114433342421	125531135555
23.	123355422523	135345423554	125432323531	111454422233
24.	145444325542	125533523544	455221145544	111445532545
25.	145425414521	135333444544	255433213554	113353322221
26.	155522434554	112124544432	125234521343	115523421555
27.	135134534532		135344321541	113335542525
28.	135334524554	115434534453	115311552521	113235545544
29.	133325533535	125343423542	115122455523	455411435554
30.	133323545545	112135534111	125433422555	155314415545
31.		125324544521		114455313554

Pc 1 indices 1977

	January	February	March	April	May	June	July	August	September	October	November	December
1.	5	5	3	1	1	1	1	0	0	0	0	0
2.	1	2	1	1	1	1	1	0	0	0	0	0
3.	3	3	1	1	1	1	1	0	0	0	0	0
4.	2	3	1	1	5	1	1	0	0	0	0	0
5.	0	3	1	1	1	1	1	0	0	0	0	0
6.	1	4	1	1	1	1	1	0	0	0	0	0
7.	1	4	1	1	1	1	1	0	0	0	0	0
8.	1	1	1	3	1	1	0	0	0	0	0	0
9.	1	1	1	1	1	1	0	0	0	0	0	0
10.	2	1	1	4	1	1	0	0	0	0	0	0
11.	3	0	1	1	4	1	0	0	0	0	0	0
12.	1	1	1	4	1	1	0	0	0	0	0	0
13.	1	5	1	3	1	1	0	0	0	0	0	0
14.	1	0	1	5	5	1	0	0	0	0	0	0
15.	1	1	1	1	1	1	0	0	0	0	0	0
16.	0	1	4	4	1	1	0	0	0	0	0	0
17.	0	3	3	1	1	1	0	0	0	0	0	0
18.	1	1	1	3	1	1	0	0	0	0	0	0
19.	4	1	1	5	1	1	0	0	0	0	0	0
20.	1	1	1	4	1	1	0	0	0	0	0	0
21.	1	4	4	5	1	1	0	0	0	0	0	0
22.	1	2	1	4	1	1	0	0	0	0	0	0
23.	1	3	4	4	1	1	0	0	0	0	0	0
24.	1	1	1	1	1	1	0	0	0	0	0	0
25.	1	1	1	1	1	1	0	0	0	0	0	0
26.	1	1	2	1	1	1	0	0	0	0	0	0
27.	1	1	2	1	1	1	0	0	0	0	0	0
28.	1	1	1	1	1	1	0	0	0	0	0	0
29.	1		1	1	1	1	0	0	0	0	0	0
30.	1		1	1	1	1	0	0	0	0	0	0
31.	5		1		1		0	0		0		0

0 = no recording

Pc 1 indices 1978

	January	February	March	April	May	June	July	August	September	October	November	December
1.	0	0	0	0	0	0	0	0	0	0	0	0
2.	0	0	0	0	0	0	0	0	0	0	0	0
3.	0	0	0	0	0	0	0	0	0	0	0	1
4.	0	0	0	0	0	0	0	0	0	0	0	1
5.	0	0	0	0	0	0	0	0	0	0	0	1
6.	0	0	0	0	0	0	0	0	0	0	0	1
7.	0	0	0	0	0	0	0	0	0	0	0	1
8.	0	0	0	0	0	0	0	0	0	0	0	1
9.	0	0	0	0	0	0	0	0	0	0	0	1
10.	0	0	0	0	0	0	0	0	0	0	0	1
11.	0	0	0	0	0	0	0	0	0	0	0	1
12.	0	0	0	0	0	0	0	0	0	0	0	1
13.	0	0	0	0	0	0	0	0	0	0	0	1
14.	0	0	0	0	0	0	0	0	0	0	0	1
15.	0	0	0	0	0	0	0	0	0	0	0	1
16.	0	0	0	0	0	0	0	0	0	0	0	1
17.	0	0	0	0	0	0	0	0	0	0	0	1
18.	0	0	0	0	0	0	0	0	0	0	0	1
19.	0	0	0	0	0	0	0	0	0	0	0	1
20.	0	0	0	0	0	0	0	0	0	0	0	1
21.	0	0	0	0	0	0	0	0	0	0	0	1
22.	0	0	0	0	0	0	0	0	0	0	0	1
23.	0	0	0	0	0	0	0	0	0	0	0	1
24.	0	0	0	0	0	0	0	0	0	0	0	1
25.	0	0	0	0	0	0	0	0	0	0	0	1
26.	0	0	0	0	0	0	0	0	0	0	0	1
27.	0	0	0	0	0	0	0	0	0	0	0	1
28.	0	0	0	0	0	0	0	0	0	0	0	1
29.	0	0	0	0	0	0	0	0	0	0	0	1
30.	0		0	0	0	0	0	0	0	0	0	1
31.	0		0		0		0	0		0		1

0 = no recording

Pc 1 indices 1979

	January	February	March	April	May	June	July	August	September	October	November	December
1.	1	0	1	1	0	0	0	1	1	1	1	1
2.	1	0	1	1	0	0	0	1	2	1	1	1
3.	1	0	1	1	0	0	0	1	1	1	1	1
4.	1	0	1	1	0	0	0	1	1	1	1	1
5.	1	0	1	1	0	0	0	1	1	1	1	1
6.	1	0	1	1	0	0	0	1	1	1	1	1
7.	1	0	1	2	0	0	0	1	1	1	1	1
8.	1	1	1	1	0	0	0	1	1	1	1	1
9.	1	1	1	1	0	0	0	1	1	1	1	1
10.	1	2	1	1	0	0	0	1	1	1	1	1
11.	4	1	1	1	0	0	0	1	1	1	1	1
12.	5	1	1	1	0	0	0	1	1	1	1	1
13.	5	1	1	1	0	0	0	1	1	1	1	1
14.	1	1	1	1	0	0	0	1	1	1	1	1
15.	1	1	1	1	0	0	0	1	1	1	1	1
16.	1	1	1	1	0	0	0	1	1	1	1	1
17.	1	1	1	1	0	0	0	1	1	1	1	1
18.	1	1	1	1	0	0	0	1	1	1	1	1
19.	1	1	1	1	0	0	0	1	1	1	1	1
20.	1	1	1	1	0	0	0	1	1	1	1	1
21.	1	1	1	1	0	0	0	1	1	1	1	1
22.	1	1	1	1	0	0	0	1	1	1	1	1
23.	1	1	1	0	0	0	1	1	1	1	1	1
24.	1	1	1	0	0	0	1	1	1	1	1	1
25.	1	1	1	0	0	0	1	3	1	1	1	1
26.	1	1	1	0	0	0	1	1	1	1	1	1
27.	1	1	1	0	0	0	1	1	1	1	1	1
28.	1	1	1	0	0	0	1	1	1	1	1	1
29.	1		1	0	0	0	1	1	1	1	1	1
30.	0		1	0	0	0	1	1	1	1	1	1
31.	0		1		0		1	1		1		1

0 = no recording