

II. GEOMAGNETISM

Processing of the geomagnetic records of the Observatory near Nagycenk is similar to that of the earth currents. (For details see Á. Wallner: *Über die erdmagnetischen Arbeiten im Observatorium bei Nagycenk und über deren Auswertung*" Acta Techn. Hung. T. 47. 431-444; and „Observatoriumsberichte des Geophysikalischen Forschungslaboratoriums der Ungarischen Akademie der Wissenschaften vom; Jahre 1966" Sopron, 1967). The following four kinds of tables are published:

I. The activity indices M of the general activity for each three-hour interval. The M -scale is linear, corresponding to 7 nT.

Values in brackets mean extrapolated ones (in the case of incomplete observations).

II. The list of disturbed (D) and quiet (Q) days selected by the following rule: A day is taken as disturbed on the basis of all magnetic and earth current activity indices, if the greatest of the simultaneous character figures decreases only in one of the three hour intervals to 3, in the other intervals they are greater. A day is taken as quiet, if the greatest of all activity indices has not reached 3. Five activity indices (two of the earth currents and three of the magnetism) are always taken into account.

III. Differences of hourly means from monthly averages in nT for all three magnetic elements. The monthly averages are given as absolute values (therefore as minutes of arc in D).

IV. Results of harmonical analysis from the monthly, yearly, Q and D day means of the daily variations.

Time are given throughout in this part in CET. Recording of magnetic variations in the observatory is made with two sets of LaCour-variometers.

The data of the tables were collected by Á. WALLNER.

I.

Three-hour magnetic activity indices (M)

	January M	Sum	February M	Sum	March M	Sum
1.	36132181	25	12235116	21	42556339	37
2.	01112824	19	43255664	35	33768231	33
3.	22121123	14	21133256	23	20010113	8
4.	63221237	26	20011086	18	23121101	11
5.	11021232	12	41625466	34	13999999	58
6.	11012332	13	53179999	52	22434310	19
7.	12101102	8	98311000	22	23245592	32
8.	11114232	15	00016389	27	21125110	13
9.	22011002	8	98324101	28	00011110	4
10.	00011186	17	00100100	2	11133200	11
11.	47332433	29	00113344	16	01132120	10
12.	21021000	6	71231011	16	00122255	17
13.	00121010	5	00112101	6	51259889	47
14.	10023300	9	00010100	2	77999836	58
15.	00112032	9	00002763	18	35513253	27
16.	35112121	16	32124221	17	31323232	19
17.	01115213	14	10122111	9	94133216	29
18.	11100000	3	10012121	8	33412551	24
19.	00010000	1	41111110	10	21123232	16
20.	10011001	4	10133310	12	11144310	15
21.	00110002	4	00112000	4	00134159	23
22.	10012332	12	00011019	12	01122101	8
23.	10013222	11	92112123	21	00123110	8
24.	10112212	10	12223399	31	00112112	8
25.	10001231	8	64334374	34	31536997	43
26.	10013131	10	43154679	39	84235127	35
27.	11014101	9	32233478	32	72334322	26
28.	42224025	21	21221247	21	20132314	16
29.	22434232	22			11343432	21
30.	10012122	9			21222379	28
31.	17464119	33			88235454	39
$M_H = 1.40$		$M_H = 2.15$		$M_H = 2.60$		
$M_D = 1.24$		$M_D = 2.06$		$M_D = 2.46$		
$M_Z = 0.15$		$M_Z = 0.32$		$M_Z = 0.42$		

	April M	Sum	May M	Sum	June M	Sum
1.	93455543	38	11435242	22	10221221	11
2.	20224231	13	21211110	9	11123211	12
3.	23123433	21	11122000	7	12113453	20
4.	11223155	20	01111110	6	11101101	6
5.	00112011	6	00211200	6	31113011	11
6.	11433211	16	01111110	6	21159441	27
7.	11133242	17	01212010	7	33689399	56
8.	10123242	15	01122264	18	93411262	28
9.	42113101	13	49954333	40	11111010	6
10.	00113102	8	42222249	27	01111010	5
11.	00149969	38	99997215	51	11111212	10
12.	99949999	67	11222545	22	01011001	4
13.	99999999	72	43312100	14	11112000	6
14.	97666511	41	01264273	25	00110020	4
15.	00234212	14	29944835	44	02223221	14
16.	21265331	23	72979993	55	34224556	31
17.	12462347	29	12121214	14	62312111	17
18.	21222554	23	99985852	55	13122423	18
19.	69368744	47	21544432	25	11123332	16
20.	27948439	46	35934995	47	22323111	14
21.	85677647	50	22221122	14	12312202	13
22.	73434584	38	21222111	12	11012213	11
23.	53744236	34	01534422	21	11111110	7
24.	01345543	25	22233445	25	11054443	22
25.	52323326	26	55175448	39	12143864	29
26.	22299999	51	42211202	14	21235321	19
27.	88969626	54	11221022	11	22122232	16
28.	21123633	21	23525311	22	21542221	19
29.	63254223	27	11111010	6	11947410	27
30.	10224011	11	01111302	9	22112243	17
31.			11122221	12		
$M_H = 3.43$			$M_H = 2.47$		$M_H = 1.87$	
$M_D = 3.04$			$M_D = 1.95$		$M_D = 1.28$	
$M_Z = 0.59$			$M_Z = 0.33$		$M_Z = 0.26$	

	July M	Sum	August M	Sum	September M	Sum
1.	34353534	30	33443243	26	00123211	10
2.	22477405	31	11212637	23	22332642	24
3.	21101035	13	33622331	23	22233211	16
4.	71212206	21	24333011	17	11034123	15
5.	52243441	25	12533242	22	74441311	28
6.	33353441	26	44222111	17	31222101	12
7.	23416431	24	01112252	14	10112111	8
8.	32232010	13	11221100	8	02212009	16
9.	01121211	9	22111133	14	42132222	18
10.	10011121	7	27357611	32	21244421	20
11.	12163231	19	12032344	22	42544114	25
12.	23227477	34	22312221	15	11203341	15
13.	61132022	17	23213113	16	12212132	14
14.	21122200	10	20132212	13	10114214	14
15.	01021000	4	20102229	18	11312320	13
16.	22222311	15	82123211	20	02111311	10
17.	12189448	37	82357356	39	21102110	8
18.	91222212	21	85334278	40	10111179	21
19.	11312422	16	12222212	14	96959476	55
20.	13147411	22	12211121	11	21111122	11
21.	12321011	11	11323424	20	30111004	10
22.	12123939	30	13212252	18	34242003	18
23.	33549995	47	89479959	60	31002110	8
24.	21112225	16	64134945	36	11122222	13
25.	63969999	60	61353323	26	32224541	23
26.	99999932	59	01222322	14	04357278	36
27.	87642212	32	21226973	32	82323191	29
28.	32222102	14	42322428	27	21112121	11
29.	01112101	7	12355422	24	11115434	20
30.	11313321	15	57222315	27	22134144	21
31.	12221224	16	45543210	24		
	$M_H = 2.58$		$M_{II} = 2.44$		$M_{II} = 2.00$	
	$M_D = 1.90$		$M_D = 2.00$		$M_D = 1.60$	
	$M_Z = 0.45$		$M_Z = 0.33$		$M_Z = 0.18$	

	October M	Sum	November M	Sum	December M	Sum
1.	21222201	12	01136112	15	00012421	10
2.	52114239	27	01121111	8	21034124	17
3.	21498996	48	31121042	14	11013132	12
4.	33246265	31	00122123	11	21323121	15
5.	10243102	13	11234322	18	30111123	12
6.	10124212	13	23112222	15	22100110	7
7.	33163599	39	64434313	28	00111112	7
8.	74654125	34	23484952	37	01311977	29
9.	54562444	34	10112001	6	22212127	19
10.	11133689	32	01146123	18	13111100	8
11.	88555654	46	22229989	43	01010912	5
12.	52522100	17	99466210	37	44216679	41
13.	01032259	22	00112004	8	52323210	18
14.	99433479	48	32339797	43	11121021	9
15.	53435422	28	74322622	28	10111015	10
16.	34423111	19	24212118	21	10121012	8
17.	00377744	32	52195688	44	10011127	13
18.	41113121	14	62277594	42	61032411	18
19.	12348368	35	51113632	22	21103331	13
20.	54349999	52	31132125	18	01129013	8
21.	98377712	44	31221159	24	11011112	8
22.	40489999	52	32132200	13	00000200	2
23.	93332414	29	21127292	26	01112121	9
24.	00037959	33	71113120	16	22111113	12
25.	14323122	18	19439413	34	02001123	9
26.	10452210	15	31222210	16	21111010	7
27.	21222223	16	00111000	3	11000022	6
28.	33243249	30	21011102	8	51121411	16
29.	22252216	22	02000000	2	04796492	41
30.	72133712	26	00010000	1	18659632	40
31.	20132010	9			12374623	28
$M_H = 3.18$		$M_H = 2.27$		$M_H = 1.58$		
$M_D = 3.01$		$M_D = 1.97$		$M_D = 1.17$		
$M_Z = 0.45$		$M_Z = 0.20$		$M_Z = 0.10$		

II.

Disturbed and quiet days for 1981

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

III.

Hourly averages of magnetic elements
(H, D, Z)

	0	1	2	3	4	5	6	7	8	9	10	11
January												
H	+ 2.3	+ 2.6	+ 2.0	+ 3.3	+ 5.7	+ 8.7	+ 8.8	+11.2	+10.6	+ 3.3	- 5.3	- 8.8
D	+ 8.8	+ 7.7	+ 6.4	+ 4.2	+ 1.6	+ 0.7	+ 1.0	+ 3.6	+10.5	+15.3	+ 8.7	- 1.8
Z	+ 1.3	+ 1.2	+ 0.7	+ 0.4	+ 0.1	- 0.2	+ 0.2	- 0.1	- 1.3	- 4.3	- 5.7	- 6.3
February												
H	+ 1.1	- 1.1	+ 3.8	+ 2.8	+ 4.3	+ 7.7	+11.1	+12.7	+10.0	+ 3.9	+ 0.3	- 4.6
D	+15.4	+12.4	+ 8.7	+ 6.5	+ 3.0	+ 1.7	+ 3.4	+ 6.9	+14.9	+15.1	+ 4.4	- 6.3
Z	+ 2.0	+ 1.6	+ 0.8	+ 0.5	+ 0.4	+ 0.2	- 0.1	+ 0.3	- 0.9	- 3.7	- 6.1	- 7.8
March												
H	+ 6.6	+ 8.3	+ 8.2	+ 7.4	+ 7.8	+ 8.6	+10.4	+11.1	+ 5.0	- 3.0	- 7.5	- 8.2
D	+ 5.3	+ 5.2	+ 5.7	+10.5	+ 8.8	+ 6.3	+10.4	+18.6	+29.1	+25.9	+ 9.9	-13.0
Z	+ 2.6	+ 1.6	+ 0.8	+ 0.5	+ 1.1	+ 1.5	+ 3.1	+ 5.4	+ 3.4	- 4.2	-13.1	-18.7
April												
H	+11.2	+10.5	+ 7.1	+ 7.5	+ 5.3	+ 4.1	+ 3.2	- 2.9	- 9.7	-15.7	-16.8	-14.5
D	+ 8.2	+10.8	+12.4	+10.2	+11.7	+12.7	+22.4	+32.1	+39.1	+32.6	+12.2	-14.0
Z	+ 5.0	+ 2.8	+ 0.9	- 0.3	+ 0.2	+ 1.5	+ 3.7	+ 5.0	+ 2.4	- 2.8	-11.4	-21.1
May												
H	+ 9.0	+ 8.9	+ 6.4	+ 8.0	+ 8.2	+ 3.5	- 1.1	-11.9	-17.4	-17.9	-13.0	- 6.0
D	+ 4.2	+ 7.1	+ 7.5	+ 8.3	+14.8	+23.7	+34.3	+36.9	+32.2	+18.8	- 1.8	-22.5
Z	+ 3.7	+ 3.0	+ 2.7	+ 2.7	+ 4.2	+ 6.0	+ 4.8	+ 2.0	- 1.8	- 8.5	-15.4	-20.5

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
— 9.7 —	7.5 —	9.6 —	8.5 —	5.3 —	4.5 —	2.2 —	1.5 +	1.3 +	1.3 +	0.2 +	1.9	21 124 nT
—11.9 —	—18.1 —	—18.8 —	—17.1 —	—11.9 —	—10.4 —	7.0 —	3.4 +	2.9 +	10.2 +	9.7 +	9.1	0°49.3'
— 6.9 —	4.4 —	0.8 +	2.5 +	2.6 +	2.4 +	3.0 +	3.6 +	3.7 +	3.4 +	2.9 +	2.0	42 482 nT
— 3.8 —	4.2 —	4.8 —	6.4 —	7.7 —	8.6 —	9.8 —	5.9 —	1.9 +	1.8 +	0.4 —	1.1	21 115 nT
—15.7 —	—20.3 —	—21.0 —	—18.4 —	—16.5 —	—16.2 —	7.3 —	5.0 +	1.9 +	8.1 +	10.1 +	14.2	0°50.4'
— 8.0 —	7.1 —	3.8 —	0.3 +	0.6 +	2.2 +	4.7 +	6.2 +	6.4 +	4.8 +	3.9 +	3.2	42 483 nT
— 7.5 —	7.4 —	8.9 —	—12.3 —	—13.3 —	—12.4 —	9.8 —	4.3 +	0.1 +	4.1 +	8.2 +	8.8	21 113 nT
—30.5 —	—40.7 —	—37.8 —	—25.4 —	—12.9 —	2.6 —	0.2 +	3.2 +	4.4 +	3.9 +	7.9 +	8.0	0°50.8'
—18.5 —	—14.5 —	8.0 —	1.1 +	6.6 +	8.6 +	8.6 +	8.6 +	7.9 +	7.3 +	5.9 +	4.6	42 484 nT
—11.7 —	—12.0 —	8.9 —	6.2 —	4.2 —	2.1 +	2.4 +	7.0 +	9.7 +	10.7 +	10.9 +	15.1	21 110 nT
—39.8 —	—48.4 —	—49.9 —	—38.5 —	—21.3 —	7.7 —	0.2 +	0.8 +	2.2 +	2.6 +	5.7 +	4.1	0°51.3'
—24.3 —	—19.7 —	—11.7 —	1.5 +	6.8 +	11.2 +	10.9 +	10.3 +	9.5 +	8.6 +	7.6 +	6.4	42 482 nT
— 5.8 —	6.2 —	5.8 —	6.7 —	1.3 +	1.4 +	5.0 +	7.7 +	8.4 +	8.8 +	8.1 +	9.7	21 121 nT
—36.1 —	—40.4 —	—35.1 —	—26.9 —	—16.8 —	5.7 +	0.3 —	0.1 —	1.8 —	1.8 +	0.8 +	2.1	0°52.2'
—15.1 —	—16.8 —	9.4 —	1.4 +	5.2 +	8.5 +	9.4 +	8.8 +	8.2 +	7.4 +	6.9 +	5.4	42 488 nT

	0	1	2	3	4	5	6	7	8	9	10	11
June												
H	+ 6.0	+ 5.0	+ 5.5	+ 6.1	+ 9.1	+ 8.3	+ 0.9	- 9.6	-17.3	-18.0	-14.0	- 7.8
D	+ 1.1	+ 4.0	+ 3.8	+ 7.1	+14.7	+23.5	+33.6	+35.4	+34.8	+23.0	+ 5.2	-13.3
Z	+ 4.0	+ 3.3	+ 5.0	+ 6.0	+ 8.3	+ 7.6	+ 6.4	+ 4.2	+ 0.9	- 5.4	-13.2	-20.3
July												
H	+ 9.2	+ 4.7	+ 6.6	+ 7.5	+11.5	+12.4	+ 2.9	- 9.9	-19.7	-26.2	-22.9	-15.1
D	+ 2.1	+ 9.8	+ 8.2	+11.4	+16.9	+29.1	+36.8	+39.4	+35.6	+23.1	+ 2.5	-18.5
Z	+ 2.2	+ 1.9	+ 1.7	+ 1.7	+ 3.7	+ 5.1	+ 4.2	+ 2.1	- 1.1	- 5.5	-12.6	-19.0
August												
H	+ 8.7	+ 8.9	+ 9.9	+11.5	+10.4	+ 9.7	+ 1.5	-11.9	-26.5	-32.2	-24.4	-13.3
D	+ 6.0	+ 6.0	+ 5.9	+ 7.2	+13.2	+25.0	+36.9	+39.3	+32.2	+14.7	- 6.0	-24.4
Z	+ 3.4	+ 2.8	+ 2.2	+ 2.1	+ 3.7	+ 5.1	+ 4.7	+ 4.0	+ 0.7	- 5.2	-11.9	-17.2
September												
H	+ 8.3	+10.3	+ 9.8	+12.0	+11.5	+11.0	+ 6.5	- 1.7	-15.0	-20.5	-20.6	-15.8
D	+ 7.5	+ 7.9	+ 9.7	+11.2	+11.3	+16.8	+24.5	+32.6	+35.2	+22.0	+ 3.6	-17.8
Z	+ 4.2	+ 3.2	+ 2.7	+ 2.0	+ 2.2	+ 3.3	+ 4.8	+ 5.0	+ 3.9	+ 0.3	- 8.4	-14.1
October												
H	+13.9	+10.7	+ 8.8	+ 8.8	+ 8.7	+11.4	+13.0	+ 9.5	+ 0.8	-10.0	-18.2	-19.1
D	+12.9	+10.7	+ 8.6	+ 7.3	+ 6.4	+ 2.9	+ 7.4	+18.4	+29.0	+27.9	+12.8	-13.1
Z	+ 1.9	+ 0.8	+ 0.9	- 0.2	- 0.7	- 0.5	+ 0.9	+ 3.8	+ 3.5	- 2.2	-10.8	-15.5

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
— 1.9 —	5.2 —	6.1 —	3.5 —	0.1 +	3.0 +	5.0 +	9.0 +	9.4 +	6.3 +	4.9 +	5.5	21 110 nT
—29.5 —	37.6 —	36.7 —	34.2 —	22.4 —	11.8 —	4.7 —	0.4 +	0.8 +	0.5 +	1.9 +	1.2	0°51.6'
—21.1 —	19.3 —	14.0 —	2.7 +	5.6 +	7.7 +	8.9 +	7.7 +	7.1 +	6.3 +	3.8 +	3.2	42 486 nT
— 5.8 —	2.6 —	1.5 +	2.8 —	1.7 +	1.8 +	3.7 +	6.5 +	8.1 +	8.0 +	9.1 +	10.6	21 129 nT
—35.3 —	42.7 —	42.0 —	35.0 —	22.0 —	11.4 —	1.0 +	0.1 —	3.2 —	2.3 —	1.3 —	0.3	0°52.7'
—21.9 —	19.8 —	12.1 +	1.0 +	8.1 +	11.5 +	11.6 +	9.8 +	8.4 +	7.8 +	6.6 +	4.6	42 497 nT
— 4.7 +	1.5 +	1.5 —	2.2 —	2.4 —	0.8 +	3.5 +	7.8 +	9.8 +	10.7 +	12.9 +	10.1	21 117 nT
—35.7 —	41.3 —	38.3 —	28.1 —	15.2 —	2.5 +	0.6 —	0.3 —	0.9 —	0.5 +	2.6 +	3.8	0°52.9'
—19.4 —	16.0 —	9.6 —	2.0 +	7.0 +	9.6 +	7.7 +	6.5 +	6.8 +	6.1 +	5.0 +	4.0	42 512 nT
—12.2 —	8.1 —	4.5 —	3.6 —	2.8 —	2.2 +	1.6 +	5.0 +	8.6 +	7.6 +	7.0 +	8.0	21 121 nT
—34.0 —	39.8 —	35.5 —	25.4 —	16.7 —	10.8 —	9.2 —	4.6 —	4.0 +	1.5 +	6.3 +	7.7	0°53.4'
—14.7 —	12.0 —	6.6 —	5.0 +	0.4 +	2.6 +	3.5 +	5.1 +	5.0 +	4.9 +	5.0 +	2.7	42 514 nT
—18.7 —	10.7 —	9.4 —	10.8 —	11.1 —	4.4 —	3.3 —	0.2 +	1.6 +	7.3 +	8.5 +	12.9	21 104 nT
—29.2 —	39.4 —	33.7 —	25.2 —	17.0 —	11.0 —	7.2 —	2.8 +	3.8 +	9.2 +	10.7 +	10.6	0°55.0'
—14.7 —	11.6 —	6.2 +	0.6 +	0.6 +	6.5 +	7.3 +	7.6 +	7.8 +	6.6 +	4.7 +	3.3	42 526 nT

	0	1	2	3	4	5	6	7	8	9	10	11
November												
H	+ 5.3	+ 5.5	+ 6.2	+ 8.5	+ 10.6	+ 14.3	+ 16.7	+ 15.1	+ 8.3	- 3.3	- 10.4	- 15.4
D	+ 11.3	+ 10.5	+ 5.9	+ 1.6	+ 0.3	- 0.6	+ 1.8	+ 6.8	+ 17.4	+ 19.2	+ 10.7	- 5.0
Z	+ 2.5	+ 1.0	+ 0.4	- 0.1	- 1.0	- 1.2	- 1.6	- 0.2	- 0.5	- 3.7	- 8.0	- 9.4
December												
H	+ 1.6	+ 0.3	+ 0.7	+ 2.5	+ 6.9	+ 10.7	+ 12.6	+ 13.8	+ 11.7	+ 4.6	- 3.8	- 9.6
D	+ 8.7	+ 7.4	+ 3.8	+ 0.8	- 0.1	- 0.4	- 0.1	+ 3.3	+ 9.5	+ 12.1	+ 5.8	- 2.6
Z	+ 1.9	+ 1.4	+ 1.2	+ 0.8	+ 0.2	- 0.2	- 0.3	- 1.0	- 2.0	- 5.2	- 6.6	- 6.5
1981 Yearly means												
H	+ 6.9	+ 6.2	+ 6.3	+ 7.2	+ 8.3	+ 9.2	+ 7.2	+ 2.1	- 4.9	- 11.2	- 13.1	- 11.5
D	+ 7.6	+ 8.3	+ 7.2	+ 7.2	+ 8.5	+ 11.8	+ 17.7	+ 22.8	+ 26.6	+ 20.8	+ 5.7	- 12.7
Z	+ 2.9	+ 2.1	+ 1.7	+ 1.3	+ 1.8	+ 2.3	+ 2.6	+ 2.5	+ 0.6	- 4.2	- 10.3	- 14.7
1981 Quiet days												
H	+ 0.1	- 0.1	+ 0.2	+ 1.4	+ 3.3	+ 4.8	+ 4.0	+ 1.1	- 3.7	- 8.5	- 9.5	- 8.6
D	+ 4.3	+ 3.5	+ 3.8	+ 6.4	+ 7.3	+ 13.0	+ 18.2	+ 22.7	+ 25.3	+ 21.0	+ 6.9	- 8.9
Z	+ 4.7	+ 4.3	+ 4.0	+ 4.1	+ 5.1	+ 5.8	+ 5.1	+ 4.1	+ 1.4	- 3.7	- 9.1	- 12.9
1981 Disturbed days												
H	+ 30.4	+ 22.9	+ 21.0	+ 21.3	+ 14.8	+ 16.2	+ 11.5	- 1.0	- 8.8	- 14.3	- 14.7	- 15.3
D	+ 4.1	+ 14.3	+ 14.5	+ 13.8	+ 16.4	+ 10.1	+ 15.4	+ 24.0	+ 28.0	+ 18.0	+ 2.8	- 18.1
Z	- 4.1	- 6.4	- 7.9	- 11.8	- 12.2	- 11.0	- 8.7	- 6.3	- 7.0	- 9.7	- 14.4	- 17.9

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
-15.8	-11.6	-10.8	-10.2	- 8.3	- 6.1	- 4.2	- 1.8	- 0.4	+ 1.1	+ 0.9	+ 5.8	21 109 nT
-19.7	-23.7	-22.1	-19.2	-15.5	-11.3	- 7.2	- 2.3	+ 4.2	+ 9.3	+13.2	+14.4	0°54.8'
- 8.1	- 5.3	- 1.8	+ 1.3	+ 3.0	+ 3.7	+ 4.6	+ 5.5	+ 5.6	+ 5.3	+ 4.8	+ 3.2	42 528 nT
- 9.4	- 7.6	- 8.5	- 7.4	- 7.1	- 7.3	- 4.7	- 1.8	- 0.3	+ 0.6	+ 0.2	+ 1.3	21 121 nT
-11.6	-16.3	-16.6	-13.5	-10.7	- 9.7	- 5.2	- 1.0	+ 3.2	+ 9.7	+12.3	+11.2	0°54.4'
- 6.8	- 4.5	- 1.3	+ 1.9	+ 3.0	+ 3.1	+ 3.6	+ 3.9	+ 3.8	+ 3.7	+ 3.4	+ 2.5	42 522 nT
- 8.9	- 6.8	- 6.4	- 6.3	- 5.4	- 3.5	- 1.1	+ 2.3	+ 4.5	+ 5.7	+ 5.9	+ 7.3	21 119 nT
-27.4	-34.1	-32.3	-25.7	-16.6	- 9.3	- 4.0	- 1.3	+ 1.1	+ 4.2	+ 6.7	+ 7.2	0°52.4'
-15.0	-12.6	- 7.1	- 0.5	+ 4.6	+ 6.5	+ 7.0	+ 7.0	+ 6.8	+ 6.0	+ 5.0	+ 3.7	42 500 nT
- 4.1	- 2.6	- 2.0	- 2.5	- 1.1	+ 0.2	+ 2.4	+ 4.8	+ 5.7	+ 5.2	+ 4.6	+ 5.0	21 131 nT
-21.6	-27.4	-25.9	-20.9	-13.2	- 7.3	- 4.4	- 3.2	- 1.5	- 0.2	+ 0.7	+ 1.4	0°51.7'
-14.4	-12.5	- 8.3	- 2.5	+ 1.4	+ 2.9	+ 3.4	+ 3.4	+ 3.5	+ 3.7	+ 3.4	+ 3.1	42 494 nT
-13.2	-17.5	-13.2	- 7.1	-16.2	- 6.5	- 5.9	- 5.5	- 2.0	- 0.3	- 0.8	+ 4.2	21 094 nT
-38.8	-41.3	-39.0	-33.4	-19.6	-13.3	- 0.9	+ 3.8	+ 7.6	+10.6	+10.2	+10.8	0°54.0'
-16.8	-12.6	- 2.2	+13.8	+20.6	+21.4	+20.3	+19.3	+17.4	+15.0	+11.8	+ 9.4	42 510 nT

IV.

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
Horizontal Intensity												
January	7.0	38	4.7	245	1.7	132	1.2	355	0.7	217	0.9	54
February	7.5	14	2.8	222	2.5	170	1.5	329	0.9	299	0.2	357
March	10.8	48	2.0	203	3.1	193	1.5	358	1.5	262	0.8	243
April	12.5	101	2.4	287	2.6	220	0.4	53	1.0	293	1.1	219
May	10.6	113	2.8	350	4.4	271	1.8	145	0.8	320	0.7	253
June	9.1	115	4.2	330	4.9	264	2.2	126	1.0	353	0.3	86
July	11.6	114	6.7	340	6.6	228	1.8	123	0.2	218	0.6	232
August	13.5	116	7.1	358	8.2	238	1.9	93	1.2	297	1.6	257
September	12.1	95	5.9	325	4.5	229	0.8	44	1.1	332	0.9	240
October	13.0	71	4.5	277	4.1	174	1.7	17	1.6	239	1.5	280
November	11.3	47	6.1	269	3.1	158	1.5	18	0.7	235	0.4	242
December	7.9	28	5.2	244	2.7	152	1.2	353	0.6	163	0.5	65
Year	8.7	81	3.1	299	3.1	217	0.7	52	0.7	281	0.5	254
Q	4.8	108	2.6	279	2.8	210	0.9	69	0.4	225	0.2	170
D	15.8	61	6.4	342	2.2	289	1.0	7	2.0	345	2.0	279
Declination												
January	9.7	47	8.3	179	3.1	28	3.6	253	0.5	291	1.2	321
February	13.0	48	8.4	181	3.2	52	3.3	275	0.8	209	0.9	285
March	16.6	44	15.7	220	8.9	45	4.6	247	1.5	198	0.4	142
April	24.1	36	20.4	221	11.0	45	3.0	264	1.3	247	1.1	306
May	22.5	35	18.3	242	7.1	79	0.9	15	0.5	227	1.2	293
June	23.0	28	18.3	229	4.7	70	0.4	29	0.2	192	0.6	321
July	26.0	31	19.3	237	6.5	63	1.0	45	0	337	1.2	207
August	22.3	37	19.4	243	7.4	89	1.3	70	1.6	273	0.7	296
September	22.3	34	15.2	228	7.9	78	3.1	271	1.3	250	0.8	231
October	17.6	42	14.7	205	8.2	53	5.9	265	0.7	211	0.6	312
November	11.8	50	11.1	185	4.8	53	4.1	260	0.5	158	1.4	294
December	8.3	57	8.0	179	2.4	51	2.9	252	0.3	249	0.9	295
Year	17.9	38	13.7	220	6.0	60	2.3	265	0.6	234	0.8	296
Q	15.4	26	11.9	225	5.3	63	1.6	263	0.3	199	0.5	330
D	22.8	50	15.7	222	6.4	43	4.2	283	1.2	220	0.8	255

	A ₁	φ_1	A ₂	φ_2	A ₃	φ_3	A ₄	φ_4	A ₅	φ_5	A ₆	φ_6
Vertical Intensity												
January	5.6	123	2.2	284	1.1	132	0.7	298	0.2	2	0.4	208
February	4.8	119	3.0	257	0.5	111	0.7	315	0.1	82	0.4	192
March	8.0	113	7.6	265	3.5	103	1.3	300	0.8	243	0.3	73
April	9.8	113	9.1	259	4.4	89	1.5	265	0.3	269	0.9	297
May	9.6	109	7.7	276	2.0	119	0.4	226	0.7	269	0.3	33
June	9.8	95	9.1	275	2.4	81	1.3	245	0.4	291	0.4	62
July	9.7	113	9.0	271	3.2	87	1.7	224	0.5	349	0.2	290
August	8.2	105	7.7	272	3.0	96	1.0	237	0.6	299	0.4	8
September	6.3	39	5.5	257	2.2	102	1.4	310	0.4	211	0.7	328
October	6.5	120	6.1	262	3.0	99	1.7	305	0.6	245	0.4	92
November	5.1	131	2.7	267	1.3	123	1.1	308	0.5	220	0.1	130
December	4.2	128	2.2	289	0.9	133	0.6	290	0.3	304	0.3	209
Year	7.0	111	5.9	268	2.2	100	0.9	279	0.3	274	0.1	353
Q	6.8	86	5.3	275	1.7	102	0.8	271	0.4	306	0.2	309
D	16.7	163	7.5	258	4.6	103	1.8	237	0.4	333	0.9	162