

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:

1. 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 main extrapolated ones (in the case of incomplete observations).

II. The list of disturbed (D) and quite (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		February		March	
	M	Sum	M	Sum	M	Sum
1.	34333699	40	41112843	24	04631016	21
2.	43221129	24	03111131	11	51113799	36
3.	62011116	18	20004233	14	13411224	18
4.	51110114	14	10010000	2	11111333	14
5.	20101113	9	03424996	37	53542999	46
6.	11110113	9	95739594	51	93443637	39
7.	10100021	5	51319516	31	41221897	34
8.	10011299	23	42043876	34	66444554	38
9.	69559998	60	22334334	24	10000101	3
10.	46236292	34	33334593	33	40032128	20
11.	31353275	29	11111567	23	30011201	8
12.	33323577	33	61312620	21	00101226	12
13.	33223541	23	00002394	18	00020000	2
14.	20121731	17	41211669	30	00011245	13
15.	10111782	21	54200013	15	13322011	13
16.	11111200	7	00011352	12	22012404	15
17.	00021451	13	22211733	21	31011117	15
18.	10011123	9	01010110	4	53111026	19
19.	10021240	10	00110113	7	11111373	18
20.	10001153	11	12211010	8	10012200	6
21.	13612111	16	00111234	12	01011101	5
22.	01111139	17	21111211	10	31011101	8
23.	68798928	57	12111123	12	11011011	6
24.	10100111	5	35312327	26	10011115	10
25.	23122111	13	11132451	18	10111141	10
26.	10011231	9	32010031	10	31122121	13
27.	21100049	17	11011119	15	11112323	14
28.	99439999	61	98978475	57	74210243	23
29.	94111299	36			10021143	12
30.	92222764	34			81102111	15
31.	41126243	23			21143021	14

$M_{II} = 2.46$

$M_{D} = 2.23$

$M_{Z} = 0.43$

$M_{II} = 2.24$

$M_{D} = 1.91$

$M_{Z} = 0.29$

$M_{II} = 1.72$

$M_{D} = 1.62$

$M_{Z} = 0.23$

	April		May		June	
	M	Sum	M	Sum	M	Sum
1.	01239925	31	21124412	17	56213342	26
2.	11231393	23	37782111	30	30102131	11
3.	83122293	30	11131112	11	00111221	8
4.	21212565	24	21131320	13	10011110	5
5.	12112000	7	00111131	8	10111111	7
6.	00122012	8	43311121	16	22215938	32
7.	00132121	10	52001012	11	44389578	48
8.	00111265	16	21121121	11	54323221	22
9.	91247991	42	41131020	12	01111069	19
10.	01132223	14	00001013	5	95374251	36
11.	15113220	15	41220110	11	22221322	16
12.	10111111	7	00223212	12	22211212	13
13.	00012123	9	41112315	18	10011112	7
14.	23202113	14	41110110	9	10101101	5
15.	01001101	4	33122225	20	12110010	6
16.	11022111	9	21112343	17	00011001	3
17.	20011001	5	1012314	[13]	12112431	15
18.	40001100	6	23112333	18	11111110	7
19.	21132379	28	22113231	15	00011101	4
20.	96771139	43	21101231	11	01116934	25
21.	99998784	63	10101122	8	12122020	10
22.	31151311	16	11110010	5	11211101	8
23.	41132211	15	11110000	4	12114110	11
24.	55532110	22	01101123	9	00011111	5
25.	26345012	23	00000316	10	41222244	21
26.	77443569	45	51012231	15	41225574	30
27.	37236616	34	01023101	8	21111455	20
28.	99977221	46	02001011	5	24224232	21
29.	37722010	22	12001110	6	42242216	23
30.	10159976	38	00001001	2	21011236	16
31.			41101111	10		

$M_{11} = 2.55$

$M_D = 2.04$

$M_Z = 0.39$

$M_{11} = 1.28$

$M_D = 0.92$

$M_Z = 0.16$

$M_{11} = 1.84$

$M_D = 1.15$

$M_Z = 0.32$

	July		August		September	
	M	Sum	M	Sum	M	Sum
1.	76201212	21	43213834	28	30101033	11
2.	11011111	7	22221332	17	01101100	4
3.	01011223	10	31111131	12	00111101	5
4.	41239799	44	11211211	10	0J100000	1
5.	42133314	21	10001111	5	00011012	5
6.	42332348	29	10000111	4	11011243	13
7.	55333422	27	11101001	5	41101025	14
8.	11223557	28	11101111	7	10104225	15
9.	43211102	14	21000112	7	21033334	19
10.	11111326	16	10211111	8	11321176	22
11.	12221351	17	52111000	10	61101064	19
12.	76386997	55	00012499	25	10001241	9
13.	21125695	31	99455349	48	00010100	2
14.	34322221	19	22531112	17	41469913	37
15.	03211101	9	21222202	13	11011196	20
16.	01100211	6	11132243	17	56339335	37
17.	54156622	31	13121313	15	32112144	18
18.	31113326	20	22132239	24	10012100	5
19.	11122310	11	34311114	18	21199959	45
20.	03012321	12	22313212	16	68235427	37
21.	01020001	4	11222111	11	21433473	27
22.	00111022	7	43193698	43	22313231	17
23.	15533153	26	64136216	29	11132010	9
24.	51013223	17	31211013	12	01133369	26
25.	43221221	17	13432212	18	32232766	31
26.	31321339	25	32232246	24	21292067	29
27.	52446111	24	53143231	22	41332159	28
28.	41122323	18	11103464	20	31122211	13
29.	11101211	8	42225363	27	01011111	6
30.	12118502	20	12000132	9	10011114	9
31.	11286968	41	42233933	29		
	$M_{II} = 2.38$		$M_{II} = 2.05$		$M_{II} = 1.93$	
	$M_D = 1.55$		$M_D = 1.45$		$M_D = 1.57$	
	$M_Z = 0.34$		$M_Z = 0.28$		$M_Z = 0.23$	

	October		November		December	
	M	Sum	M	Sum	M	Sum
1.	11001010	4	20121793	25	11131249	22
2.	20110012	7	11216999	38	43212374	26
3.	11112332	14	99263923	43	11111411	11
4.	21111226	16	45211553	26	12012273	18
5.	48659999	59	10112118	15	22111231	13
6.	93976964	53	13312251	18	00122201	8
7.	75413295	36	11212021	10	00120132	9
8.	52222518	27	30000153	12	00010010	2
9.	01111140	9	11022971	23	11000002	4
10.	01211014	10	33113119	22	22129913	29
11.	11112656	23	21011112	9	52110112	13
12.	82001233	19	01000012	4	11000025	9
13.	23223666	30	31127399	35	65469824	44
14.	12132211	13	66112234	25	73012137	24
15.	13432223	20	62027154	27	43200014	14
16.	45232402	22	21122224	16	40100012	8
17.	42123162	21	00112692	21	62111110	13
18.	51127447	31	23212558	28	00425331	18
19.	52243310	20	16011122	14	34789995	54
20.	01111020	6	00000000	0	42112000	10
21.	01332955	28	00010012	4	11000010	3
22.	32222164	22	22011032	11	02111110	7
23.	21132136	19	00011001	3	00010011	3
24.	21111141	12	00111002	5	31221110	11
25.	11121121	10	10111101	6	00100015	7
26.	10111001	5	10111001	5	52100010	9
27.	00011001	3	03324932	26	01111198	22
28.	40011000	6	21121011	9	57387993	51
29.	22121110	10	00024399	27	11100011	5
30.	00011021	5	99559557	54	76884999	60
31.	01011130	7			32137592	32
	$M_H = 2.06$		$M_H = 2.02$		$M_H = 1.97$	
	$M_D = 1.69$		$M_D = 1.89$		$M_D = 1.66$	
	$M_Z = 0.26$		$M_Z = 0.22$		$M_Z = 0.32$	

II.

Disturbed and quiet days for 1985

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

III.

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

	0	1	2	3	4	5	6	7	8	9	10	11
January												
H	- 1.8	- 0.5	- 0.8	+ 1.6	+ 3.8	+ 4.8	+ 8.1	+ 8.0	+ 5.6	+ 4.6	+ 2.6	+ 0.7
D	+ 7.8	+ 5.1	+ 4.1	+ 2.4	- 0.3	- 2.8	- 1.8	- 1.3	- 1.2	- 4.9	- 8.1	-11.5
Z	+ 1.8	+ 0.8	+ 0.2	- 0.5	- 1.0	- 1.3	- 1.5	- 1.9	- 2.6	- 4.4	- 4.3	- 5.6
February												
H	+ 3.7	+ 2.2	+ 1.6	+ 3.3	+ 2.9	+ 5.6	+ 6.1	+ 7.9	+ 5.8	+ 1.5	- 2.5	- 4.9
D	+ 6.4	+ 5.6	+ 4.5	+ 1.9	+ 1.2	- 0.5	- 1.4	- 2.8	+ 0.5	- 1.0	- 5.0	-10.6
Z	+ 0.2	- 0.5	- 0.8	- 1.4	- 1.5	- 1.6	- 1.6	- 1.6	- 1.5	- 1.6	- 2.2	- 2.5
March												
H	+ 0.2	+ 1.0	+ 1.5	+ 0.1	+ 1.0	+ 2.9	+ 4.6	+ 4.9	+ 1.6	- 3.4	- 6.3	- 2.9
D	+ 7.1	+ 4.0	+ 1.6	+ 2.8	+ 2.3	+ 1.7	+ 4.2	+10.4	+15.6	+13.2	+ 4.1	- 9.5
Z	+ 2.5	+ 1.9	+ 1.2	+ 1.0	+ 1.0	+ 0.9	+ 2.1	+ 3.0	+ 1.9	- 2.3	- 7.7	-10.4
April												
H	+10.3	+11.6	+ 9.6	+11.5	+ 8.6	+ 7.1	+ 4.5	- 0.5	-10.2	-17.9	-15.7	-10.4
D	+ 7.9	+ 7.0	+ 5.7	+ 3.2	+ 2.3	+ 6.6	+13.3	+21.8	+24.3	+14.5	+ 0.6	-17.2
Z	+ 2.2	+ 0.4	- 0.7	- 1.7	- 1.9	- 0.8	+ 0.8	+ 1.0	- 2.0	- 7.4	-12.5	-15.2
May												
H	+ 3.2	+ 2.9	+ 1.8	+ 2.2	+ 2.5	+ 2.0	- 2.9	- 7.9	-12.2	-12.9	-11.0	- 3.1
D	+ 7.5	+ 9.2	+10.6	+11.7	+14.0	+20.0	+23.2	+23.6	+20.0	+ 8.4	- 6.5	-20.1
Z	+ 5.3	+ 4.8	+ 4.4	+ 4.4	+ 5.1	+ 4.2	+ 3.1	+ 1.4	- 1.5	- 6.5	-11.0	-14.6

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
+ 1.7	+ 1.8	- 1.8	- 2.4	- 6.9	- 7.9	- 9.1	- 4.2	- 2.5	- 4.6	+ 0.8	- 1.6	21 067 nT
-12.8	-11.2	- 7.5	- 2.9	- 1.6	+ 0.8	+ 5.1	+ 6.2	+ 7.4	+ 9.3	+ 9.3	+10.4	1°11.3'
-- 4.8	- 2.9	- 1.1	- 0.5	+ 2.6	+ 3.7	+ 4.7	+ 4.7	+ 4.5	+ 4.2	+ 2.9	+ 2.3	42 598 nT
-- 2.6	- 3.9	- 2.6	- 4.7	- 7.9	- 6.6	- 6.1	- 3.7	- 0.6	- 0.3	+ 1.2	- 4.6	21 069 nT
-14.5	-13.7	-10.8	- 6.7	+ 0.1	+ 0.1	+ 6.9	+ 7.8	+ 7.2	+ 7.8	+ 6.8	+10.2	1°11.6'
- 2.1	- 0.9	+ 0.7	+ 1.2	+ 1.8	+ 2.3	+ 3.1	+ 3.0	+ 2.8	+ 2.4	+ 1.6	+ 0.7	42 616 nT
+ 0.5	+ 1.6	+ 0.4	- 2.5	- 3.2	- 3.4	- 3.1	- 1.4	+ 0.3	+ 3.1	+ 2.3	+ 0.2	21 078 nT
-22.0	-26.2	-22.7	-13.7	- 5.2	- 2.4	- 2.0	+ 2.1	+ 5.5	+10.3	+10.2	+ 8.6	1°11.3'
-10.1	- 7.2	- 4.6	- 0.2	+ 2.3	+ 2.6	+ 3.4	+ 4.1	+ 4.3	+ 3.9	+ 3.5	+ 3.5	42 618 nT
-- 4.8	- 3.0	- 5.1	- 8.3	- 8.7	- 8.8	- 1.6	+ 3.2	+ 6.2	+ 6.5	+ 6.7	+ 9.2	21 071 nT
-30.2	-33.6	-28.6	-19.2	- 8.7	- 2.7	+ 1.9	+ 3.8	+ 5.4	+ 5.0	+ 7.9	+ 9.0	1°11.4'
-13.5	- 9.0	- 2.0	+ 3.7	+ 7.8	+ 9.4	+ 8.7	+ 8.3	+ 7.4	+ 6.7	+ 5.9	+ 4.4	42 630 nT
+ 2.8	+ 1.7	- 3.0	- 5.0	- 3.4	- 1.1	+ 2.0	+ 7.1	+ 8.7	+ 8.8	+ 8.6	+ 8.2	21 084 nT
-28.7	-31.1	-26.7	-19.1	-12.1	- 7.9	- 3.5	- 1.7	- 1.6	+ 0.1	+ 3.4	+ 7.3	1°11.3'
-14.7	-11.9	- 7.5	- 2.2	+ 1.9	+ 4.4	+ 5.2	+ 5.7	+ 5.4	+ 5.0	+ 5.1	+ 4.5	42 616 nT

	0	1	2	3	4	5	6	7	8	9	10	11
June												
H	+ 7.3	+ 6.9	+ 4.4	+ 4.8	+ 5.6	+ 3.7	+ 0.3	- 6.0	-12.1	-15.2	-15.0	-11.0
D	+ 7.8	+ 6.4	+ 8.1	+ 9.8	+15.1	+20.4	+23.3	+23.9	+21.9	+14.3	+ 1.3	-12.5
Z	+ 2.6	+ 2.0	+ 1.6	+ 2.1	+ 2.7	+ 3.2	+ 2.0	+ 1.6	+ 0.4	- 3.9	- 8.7	-11.7
July												
H	+ 10.7	+10.0	+ 8.7	+ 8.2	+ 7.6	+ 5.6	+ 3.8	- 4.4	-12.2	-14.9	-14.6	-14.4
D	+ 3.6	+ 4.6	+ 6.0	+ 7.0	+10.6	+17.3	+21.1	+23.8	+22.2	+15.3	+ 2.3	-12.3
Z	+ 1.4	+ 0.5	+ 0.1	+ 0.5	+ 1.7	+ 2.4	+ 1.0	+ 0.1	- 1.7	- 5.3	- 8.6	-10.3
August												
H	+ 9.2	+ 6.0	+ 7.3	+ 5.4	+ 6.4	+ 4.6	- 2.3	- 9.8	-17.7	-21.5	-18.5	- 8.6
D	+ 7.8	+ 7.2	+ 6.5	+ 7.6	+10.2	+17.0	+22.5	+24.1	+21.9	+10.4	- 4.6	-18.4
Z	+ 1.0	+ 0.5	- 0.1	+ 0.1	+ 1.1	+ 2.0	+ 2.0	+ 2.2	+ 0.9	- 2.0	- 5.3	- 7.7
September												
H	+ 7.4	+ 5.8	+ 4.8	+ 4.8	+ 5.6	+ 5.4	+ 3.6	- 3.6	-11.5	-14.5	-14.6	-11.8
D	+ 6.1	+ 4.4	+ 6.4	+ 6.5	+ 8.0	+ 8.3	+12.3	+17.2	+17.1	+10.3	- 2.6	-16.0
Z	+ 0.7	+ 0.7	+ 0.7	+ 0.7	+ 0.6	+ 1.1	+ 1.9	+ 2.8	+ 1.8	- 1.0	- 5.0	- 8.2
October												
H	+ 5.8	+ 4.1	+ 3.5	+ 3.7	+ 5.9	+ 6.9	+ 6.3	+ 2.5	- 2.1	- 4.8	- 8.4	- 8.3
D	+ 5.8	+ 4.9	+ 3.1	+ 3.3	+ 1.9	+ 0.8	+ 2.0	+ 5.5	+11.9	+13.4	+ 3.9	-10.9
Z	+ 1.3	+ 0.8	+ 0.3	- 0.1	- 0.1	+ 0.3	+ 1.0	+ 2.5	+ 2.1	- 1.3	- 7.1	-10.7

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
-- 7.3	-- 6.9	-- 6.7	-- 4.2	-- 0.8	-- 0.6	+ 3.0	+ 9.3	+11.7	+11.7	+ 8.5	+ 8.6	21 082 nT
--22.6	--28.9	--29.8	--26.4	--20.7	--11.2	-- 6.8	-- 5.8	-- 1.5	+ 2.1	+ 4.3	+ 7.5	1°11.9'
--12.2	--10.7	-- 7.3	-- 1.7	+ 2.4	+ 4.7	+ 6.1	+ 5.8	+ 5.6	+ 5.0	+ 4.6	+ 3.8	42 606 nT
--10.8	-- 7.4	-- 8.5	-- 8.5	-- 4.6	-- 3.3	+ 0.5	+ 5.7	+10.0	+10.9	+12.0	+10.1	21 077 nT
--21.4	--27.1	--26.3	--21.9	--15.4	-- 8.2	-- 6.1	-- 3.1	-- 0.5	+ 0.5	+ 3.5	+ 4.5	1°12.9'
--10.6	-- 9.1	-- 4.9	+ 0.8	+ 5.5	+ 7.5	+ 7.5	+ 6.3	+ 5.0	+ 3.9	+ 3.5	+ 2.8	42 623 nT
-- 2.6	-- 0.4	+ 0.4	-- 1.4	-- 1.3	-- 1.8	+ 2.7	+ 6.3	+ 9.2	+ 9.2	+10.5	+ 8.7	21 080 nT
--27.9	--28.9	--25.2	--18.7	--11.9	-- 5.5	-- 3.7	-- 2.0	-- 0.8	+ 2.1	+ 5.1	+ 5.2	1°13.0'
-- 8.2	-- 6.8	-- 3.8	-- 0.5	+ 2.5	+ 3.7	+ 3.4	+ 3.6	+ 3.3	+ 3.1	+ 2.8	+ 2.2	42 628 nT
-- 8.7	-- 3.0	-- 0.1	-- 0.3	-- 1.1	-- 3.4	+ 0.4	+ 3.0	+ 4.4	+ 5.5	+10.6	+11.3	21 074 nT
--24.0	--26.3	--21.9	--13.7	-- 9.0	-- 3.5	-- 1.9	+ 1.2	+ 6.6	+ 7.0	+ 3.6	+ 3.9	1°13.5'
-- 7.6	-- 5.0	-- 3.0	-- 0.8	+ 1.0	+ 2.4	+ 2.9	+ 3.6	+ 3.5	+ 3.4	+ 2.2	+ 0.6	42 637 nT
-- 5.9	-- 1.2	-- 1.5	-- 3.9	-- 7.7	-- 7.8	-- 3.7	-- 1.8	+ 0.4	+ 6.7	+ 6.0	+ 5.3	21 071 nT
--21.9	--22.2	--18.1	--10.3	-- 6.7	-- 1.7	+ 2.3	+ 4.3	+ 5.9	+ 7.6	+ 7.7	+ 7.5	1°14.4'
-- 8.7	-- 5.4	-- 2.0	+ 0.8	+ 2.2	+ 3.7	+ 4.7	+ 4.6	+ 4.4	+ 3.1	+ 1.9	+ 1.7	42 638 nT

	0	1	2	3	4	5	6	7	8	9	10	11
November												
H	+ 2.4	+ 2.7	+ 5.6	+ 3.6	+ 5.0	+ 6.8	+ 9.2	+11.1	+ 6.8	+ 2.9	- 2.9	- 6.7
D	+ 7.6	+ 2.7	+ 0.9	- 3.8	- 5.0	- 4.2	- 3.6	- 0.4	+ 5.4	+ 5.9	- 0.9	- 9.4
Z	+ 0.3	- 1.1	- 2.4	- 2.4	- 2.3	- 1.6	- 1.3	- 0.9	- 1.0	- 3.9	- 6.8	- 5.1
December												
H	- 1.3	- 0.9	- 0.1	+ 1.0	+ 2.0	+ 4.4	+ 7.9	+10.3	+ 9.4	+ 4.9	+ 0.9	- 0.2
D	+ 6.6	+ 3.3	+ 0.1	- 1.9	- 2.1	- 5.8	- 5.3	- 3.8	- 1.3	+ 0.1	- 2.7	- 6.7
Z	+ 0.4	- 0.1	- 0.8	- 1.6	- 1.8	- 1.4	- 1.8	- 2.3	- 2.7	- 3.5	- 3.5	- 3.9
1985 Yearly means												
H	+ 4.7	+ 4.2	+ 4.0	+ 4.1	+ 4.7	+ 4.9	+ 4.1	+ 1.0	- 4.1	- 7.6	- 8.9	- 6.9
D	+ 6.8	+ 5.4	+ 4.8	+ 4.2	+ 4.9	+ 6.6	+ 9.1	+11.8	+13.2	+ 8.3	- 1.5	-12.9
Z	+ 1.6	+ 0.9	+ 0.3	+ 0.1	+ 0.3	+ 0.6	+ 0.6	+ 0.7	- 0.5	- 3.6	- 6.9	- 8.3
1985 Quiet days												
H	- 0.3	- 1.2	- 1.3	- 0.3	+ 1.4	+ 1.8	+ 0.9	- 0.4	- 3.9	- 6.5	- 7.5	- 6.0
D	+ 5.7	+ 5.2	+ 4.8	+ 4.3	+ 6.1	+ 9.4	+12.1	+15.4	+16.5	+11.6	+ 1.0	-11.1
Z	+ 2.8	+ 2.5	+ 2.1	+ 2.3	+ 2.7	+ 3.3	+ 3.0	+ 2.8	+ 1.0	- 2.4	- 6.2	- 8.6
1985 Disturbed days												
H	+15.5	+17.2	+21.2	+25.8	+24.8	+15.2	+10.8	+ 3.5	- 5.8	-15.3	-13.5	-15.5
D	+18.7	+15.6	+ 8.6	+ 1.3	- 3.9	-12.6	- 9.4	- 7.6	- 4.0	- 3.1	- 5.5	-10.4
Z	- 4.2	- 7.2	-10.0	-11.3	-11.7	- 9.8	- 8.9	- 7.2	- 6.2	- 4.7	- 4.6	- 4.4

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
-- 5.5	-- 7.8	-- 5.7	-- 6.5	-- 7.0	-- 3.9	-- 2.3	-- 2.0	-- 2.1	-- 2.1	-- 1.9	+ 0.1	21 066 nT
-15.5	-15.7	-11.9	- 7.9	- 3.3	- 0.8	+ 2.5	+ 5.3	+12.6	+16.6	+12.4	+10.5	1°15.1'
- 3.4	+ 0.2	+ 3.5	+ 4.7	+ 3.4	+ 4.0	+ 3.6	+ 3.6	+ 3.3	+ 2.7	+ 2.2	+ 0.7	42 638 nT
-- 1.3	-- 3.0	-- 5.0	-- 6.5	-- 6.4	-- 5.0	-- 2.9	-- 2.6	-- 1.6	-- 2.1	-- 2.2	+ 0.3	21 062 nT
-11.2	-- 9.2	-- 5.9	-- 3.7	-- 0.1	+ 1.0	+ 4.4	+ 5.7	+ 8.9	+10.8	+ 8.9	+ 9.9	1°15.2'
- 3.4	- 0.5	+ 2.0	+ 3.0	+ 3.4	+ 3.3	+ 3.1	+ 3.1	+ 2.9	+ 2.8	+ 2.3	+ 1.0	42 656 nT
-- 3.8	-- 2.7	-- 3.3	-- 4.5	-- 4.9	-- 4.2	-- 1.7	+ 1.5	+ 3.6	+ 4.4	+ 5.2	+ 5.2	21 073 nT
-21.1	-22.8	-19.6	-13.7	-- 7.9	-- 3.5	-- 0.1	+ 2.0	+ 4.6	+ 6.6	+ 6.9	+ 7.9	1°12.7'
- 8.3	-- 5.8	-- 2.5	+ 0.7	+ 3.1	+ 4.3	+ 4.7	+ 4.7	+ 4.4	+ 3.8	+ 3.2	+ 2.4	42 625 nT
-- 2.5	-- 1.1	+ 0.5	+ 0.3	+ 0.5	+ 0.9	+ 2.0	+ 4.2	+ 5.1	+ 5.1	+ 4.6	+ 3.7	21 079 nT
-20.0	-21.7	-18.4	-12.5	-- 7.5	-- 4.2	-- 3.0	-- 1.7	-- 0.4	+ 1.3	+ 2.7	+ 4.4	1°12.7'
-- 8.7	-- 6.7	-- 3.7	-- 1.2	+ 0.8	+ 1.6	+ 1.9	+ 2.1	+ 2.3	+ 2.2	+ 2.1	+ 2.0	42 626 nT
-12.9	-21.7	-22.3	-15.6	-20.2	-16.4	-10.1	-- 3.3	+ 8.6	+ 8.9	+ 8.9	+12.1	21 051 nT
-21.6	-17.4	-14.0	-13.4	-- 4.8	+ 5.7	+18.4	+16.9	+16.0	+12.0	+ 9.1	+ 5.4	1°14.3
-- 2.2	+ 0.9	+ 5.5	+ 8.8	+12.5	+15.0	+14.9	+12.6	+ 9.2	+ 6.4	+ 4.4	+ 2.2	42 633 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	5.8	351	1.1	176	2.0	195	0.7	359	0.1	111	0.3	179
February	5.5	32	1.3	198	2.1	161	1.1	13	0.6	164	0.4	138
March	2.1	47	0.4	271	2.5	195	1.5	24	1.1	277	0.3	16
April	11.1	86	2.8	14	4.1	234	2.7	51	0.4	310	0.8	162
May	7.3	125	1.4	72	4.5	250	1.8	98	0.6	255	0.5	91
June	11.0	112	1.8	307	3.0	239	0.8	82	0.9	11	0.8	101
July	12.8	97	1.5	325	2.9	229	0.9	73	0.5	359	0.4	347
August	10.9	118	4.1	16	5.0	234	1.6	87	0.4	352	0.5	145
September	9.1	104	2.8	355	4.0	195	0.8	101	0.6	104	1.0	229
October	6.4	68	0.3	344	3.6	196	0.9	14	0.5	137	0.7	318
November	6.7	30	2.9	257	1.3	107	1.5	23	0.3	228	0.2	247
December	5.3	2	3.0	218	0.8	138	1.1	37	0.6	230	0.4	151
Year	6.0	83	0.8	324	2.5	214	1.1	52	0.2	282	0.1	150
Q	3.8	131	1.6	280	2.4	206	0.3	52	0.3	212	0.2	156
D	21.4	65	1.9	332	4.0	262	0.5	287	1.2	343	2.0	142
Declination												
January	9.0	109	2.5	223	1.8	94	0.8	298	0.5	177	0.6	194
February	8.7	103	3.7	226	2.4	50	0.8	249	0.9	123	0.1	184
March	10.4	61	9.9	210	5.4	67	3.4	245	0.1	14	0.7	91
April	14.6	54	13.3	225	7.9	72	1.6	291	0.3	219	0.4	178
May	19.2	45	10.9	247	5.2	90	0.4	316	0.2	144	0.3	205
June	20.2	36	11.0	226	3.3	80	0.7	164	0.6	177	0.6	357
July	17.0	33	11.2	228	4.0	80	0.5	246	0.2	206	0.4	342
August	17.2	43	11.3	239	5.7	94	0.5	321	0.2	221	0.4	344
September	13.0	52	10.0	233	4.3	76	2.4	291	0.2	13	0.7	83
October	9.0	68	8.3	213	5.1	55	3.1	260	1.4	120	0.4	310
November	8.4	106	7.6	194	2.8	79	2.6	269	0.4	68	0.9	13
December	7.3	122	3.6	188	1.7	72	1.4	256	0.7	116	0.1	62
Year	11.4	59	8.3	224	4.0	76	1.3	267	0.4	133	0.1	35
Q	11.5	41	7.8	230	4.8	78	1.2	266	0.5	98	0.3	23
D	14.3	117	4.8	203	6.9	20	2.3	13	1.3	95	0.9	320

	A₁	φ₁	A₂	φ₂	A₃	φ₃	A₄	φ₄	A₅	φ₅	A₆	φ₆
	Vertical Intensity											
January	4.1	138	1.5	269	0.3	98	0.2	19	0.1	212	0.1	346
February	2.4	161	0.8	260	0.2	118	0.3	318	0.1	125	0.1	302
March	4.8	105	3.5	265	2.1	110	0.8	318	0.2	212	0.4	114
April	7.8	135	5.3	277	3.1	119	0.6	318	0.3	260	0.1	189
May	8.3	99	4.8	281	1.7	102	0.3	287	0.1	130	0.2	70
June	6.4	105	4.7	267	1.5	96	0.4	248	0.2	196	0.3	83
July	5.7	124	4.7	278	1.5	96	0.6	186	0.1	233	0.2	96
August	3.5	109	3.3	265	1.5	109	0.3	249	0.0	221	0.1	69
September	3.1	105	3.1	262	1.2	111	0.9	325	0.2	210	0.2	6
October	3.8	119	3.5	268	1.9	109	1.2	335	0.6	169	0.3	45
November	3.6	168	1.7	296	1.7	152	0.8	348	0.3	168	0.1	105
December	3.2	156	0.9	290	0.5	149	0.2	353	0.2	173	0.4	325
Year	4.4	123	3.1	273	1.4	113	0.4	314	0.1	183	0.1	72
Q	4.2	88	2.9	278	1.4	114	0.4	324	0.1	116	0.2	57
D	11.7	189	2.9	250	1.3	96	0.5	160	0.5	176	0.3	269