

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; Jahren 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.	67145497	43	83223062	26	00028489	31
2.	72429920	35	20112299	26	96436499	50
3.	53322846	33	94011298	34	79274599	52
4.	15563498	41	98439999	60	23121210	12
5.	69229444	40	72212101	16	00121111	7
6.	22242703	22	01101165	15	12444499	37
7.	01111102	7	22121012	11	98224648	43
8.	10110000	3	21021011	8	43333999	43
9.	01010002	4	21211114	13	73111114	19
10.	02110297	22	31122299	29	22211256	21
11.	71112135	21	96222132	27	80011036	19
12.	32011102	10	11111219	17	13111133	14
13.	00011634	15	97333493	41	35227701	27
14.	20102012	8	99417926	47	01122110	8
15.	11110111	7	95211102	21	00122109	15
16.	00111221	8	32011031	11	31423831	25
17.	45000001	10	11211110	8	14346825	33
18.	00001033	7	63233271	27	11143653	24
19.	62423416	28	01122231	12	33237101	20
20.	23122000	10	20121459	24	20112100	7
21.	21333014	17	83113413	24	10012232	11
22.	43111122	15	31112141	14	55311255	27
23.	21011111	8	32333231	20	83345311	28
24.	21111000	6	21123222	15	11123212	13
25.	00111344	14	40131004	13	37656894	48
26.	63511363	28	10133497	28	40131259	25
27.	13111134	15	39322389	39	72243299	38
28.	33256936	37	20212211	11	34458999	51
29.	95243123	29	00123870	21	96866587	55
30.	42453989	44			73543276	37
31.	22236995	38			22334537	29
	$M_H = 2.15$		$M_H = 2.38$		$M_H = 3.08$	
	$M_D = 1.91$		$M_D = 2.39$		$M_D = 2.80$	
	$M_Z = 0.19$		$M_Z = 0.24$		$M_Z = 0.39$	

	April		May		June	
	M	Sum	M	Sum	M	Sum
1.	96483673	46	55323711	27	21112321	13
2.	53557977	48	33544411	25	31132532	20
3.	94457599	52	10153246	22	21229982	35
4.	74566699	52	41212134	18	25373562	33
5.	93415899	48	20137959	36	84436120	28
6.	73123113	21	92311220	20	44322122	20
7.	23297176	37	00013100	5	22032200	11
8.	96654949	52	01121110	7	0000	[0]
9.	94323283	34	12206633	23	544554	[36]
10.	21111024	12	86623962	42	22211634	21
11.	71123355	27	31312322	17	22212100	10
12.	12222634	22	31131297	27	0012	[6]
13.	41314143	21	54111000	12	102021	[8]
14.	21111678	27	00129332	20	01021000	4
15.	91222110	18	32111220	12	12254874	33
16.	00112102	7	02242102	13	99565525	46
17.	00121642	16	23599994	50	30153312	18
18.	11223222	15	13212448	25	12249982	37
19.	11233324	19	86533143	33	42335966	38
20.	23442121	19	32634975	39	46223220	21
21.	32212222	16	87597296	53	00101012	5
22.	40111100	8	54835997	50	21000310	7
23.	00113137	16	87354496	46	10111227	15
24.	10212112	10	31367772	36	47512231	25
25.	11335969	37	51222484	28	32132232	18
26.	98796999	66	95422220	26	12102123	12
27.	79334224	34	00123210	9	45312101	17
28.	41433922	28	10012224	12	23114779	34
29.	11233954	28	22313122	16	52121244	21
30.	11113009	16	42232424	23	32113541	20
31.			22101109	16		
	$M_H = 3.30$		$M_H = 2.91$		$M_H = 2.39$	
	$M_D = 2.69$		$M_D = 2.13$		$M_D = 1.71$	
	$M_Z = 0.48$		$M_Z = 0.41$		$M_Z = 0.27$	

	July		August		September	
	M	Sum	M	Sum	M	Sum
1.	22132559	29	69899969	65	42110123	14
2.	52121254	22	35645632	34	13111311	12
3.	82224443	29	12322222	16	12212113	13
4.	11222243	17	42223341	21	12679971	42
5.	52341211	19	21112221	12	89949997	64
6.	22223223	18	01112101	7	32132243	20
7.	21111152	14	00000000	0	22111111	10
8.	12221322	15	33255216	27	01214224	16
9.	22222631	20	22232529	27	41121124	16
10.	12238441	25	22141214	17	43263498	39
11.	20011443	15	10222114	13	43613232	24
12.	77223112	25	53242034	23	12143543	23
13.	15989992	52	33112121	14	43121111	14
14.	88665964	52	10138858	34	21132252	18
15.	45343399	40	45224722	28	31141304	17
16.	53268499	46	35447232	30	41011330	13
17.	65886978	57	32222125	19	20111000	5
18.	23237476	34	41131221	15	00001000	1
19.	33432222	21	11132799	33	01299399	42
20.	22212315	18	32320230	15	44242793	35
21.	51321112	16	10121100	6	00021314	11
22.	25211311	16	00010000	1	11136189	30
23.	31112122	13	00002444	14	79799999	68
24.	44162211	21	23396456	38	97964997	60
25.	12101233	13	42482151	27	43539898	49
26.	22121001	9	31411311	15	55487993	50
27.	81013344	24	22127998	40	53234939	38
28.	25323441	24	91593956	47	43122397	31
29.	11112790	22	43446434	32	22112226	18
30.	21112610	14	51224432	23	63211005	18
31.	11112829	25	34111323	18		
	$M_H = 2.81$		$M_H = 2.58$		$M_H = 3.04$	
	$M_D = 1.98$		$M_D = 1.92$		$M_D = 2.63$	
	$M_Z = 0.35$		$M_Z = 0.25$		$M_Z = 0.35$	

	October		November		December	
	M	Sum	M	Sum	M	Sum
1.	40112401	13	21995323	34	22323013	16
2.	33121332	18	21122494	25	59522798	47
3.	75332124	27	21229859	38	82232773	34
4.	10011412	10	43341355	28	22553999	44
5.	21122212	13	43224321	21	95142334	31
6.	15412259	29	01333432	19	32354736	33
7.	99629875	55	23221999	37	42333481	28
8.	85472268	42	95142422	29	21111000	6
9.	42251299	35	11111293	19	30000113	8
10.	42349971	39	22119449	32	10122241	13
11.	43343989	43	32223619	28	11014459	25
12.	93353993	44	12211000	7	95221211	23
13.	41168212	25	01031368	22	29435767	43
14.	42221037	21	12129252	24	10011325	13
15.	22011189	24	39399799	58	32022129	21
16.	64146147	33	99999998	71	73455999	51
17.	50001001	7	82346935	40	52459697	47
18.	02437599	39	83323165	31	22223653	25
19.	99599999	68	27311296	31	21113031	12
20.	97459999	61	52435255	31	10000231	7
21.	54555999	51	23335497	36	01001295	18
22.	96267999	57	12221182	19	51111233	17
23.	72245897	44	42113100	12	11231654	23
24.	53677996	52	12121134	15	10000101	3
25.	42332439	30	31101337	19	10200001	4
26.	92121112	19	31101130	10	13224479	32
27.	11113351	16	00111540	12	20019914	26
28.	01212044	14	12011100	6	92934959	50
29.	31211211	12	00641111	14	54353598	42
30.	22121102	11	29934239	41	33322296	30
31.	20101024	10			82229984	44
	$M_H = 3.53$		$M_H = 3.03$		$M_H = 2.91$	
	$M_D = 3.06$		$M_D = 2.58$		$M_D = 2.61$	
	$M_Z = 0.40$		$M_Z = 0.22$		$M_Z = 0.21$	

II.

Disturbed and quiet days for 1984

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

III.

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

	0	1	2	3	4	5	6	7	8	9	10	11
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January

H	- 0.8	- 0.3	+ 0.4	+ 2.8	+ 4.0	+ 6.8	+ 9.2	+11.7	+12.0	+ 8.4	+ 3.7	- 1.9
D	+ 9.8	+ 6.7	+ 3.2	- 2.4	- 4.0	- 4.9	- 4.8	- 2.8	+ 3.1	+ 5.1	+ 0.5	- 5.2
Z	+ 1.5	+ 0.2	- 0.7	- 1.5	- 1.7	- 1.4	- 1.4	- 2.0	- 2.9	- 5.1	- 4.8	- 4.3

February

H	+ 1.0	+ 4.1	+ 1.3	+ 0.2	+ 3.2	+ 4.9	+ 8.7	+12.9	+13.7	+ 9.6	+ 3.9	- 2.0
D	+17.3	+13.7	+11.5	+ 4.0	+ 3.0	- 0.6	- 0.2	+ 2.4	+ 7.7	+ 8.4	+ 0.6	- 9.6
Z	+ 2.1	+ 0.3	- 0.8	- 1.1	- 1.4	- 0.9	- 1.5	- 1.8	- 3.1	- 5.8	- 7.3	- 7.9

March

H	+ 8.4	+ 4.2	+ 3.7	+ 4.2	+ 5.8	+ 5.4	+ 5.5	+ 5.2	+ 1.3	- 7.2	- 7.5	- 4.8
D	+10.9	+ 9.9	+ 4.7	+ 6.4	+ 5.5	+ 5.7	+ 6.6	+13.0	+17.4	+15.1	+ 0.6	-16.5
Z	- 0.3	- 0.6	- 0.4	- 1.1	- 1.2	- 0.4	+ 1.5	+ 3.2	+ 1.2	- 3.8	- 9.1	-12.6

April

H	+ 5.6	+ 3.0	+ 5.4	+ 2.7	+ 4.8	+ 2.6	+ 0.9	- 1.7	-11.0	-15.4	-12.2	- 5.0
D	+11.7	+13.3	+10.2	+ 7.8	+ 9.7	+ 9.9	+13.6	+19.2	+22.4	+14.3	- 1.9	-19.3
Z	+ 2.6	+ 1.1	- 0.2	- 0.5	- 0.2	+ 1.1	+ 2.8	+ 3.1	+ 1.8	- 2.3	-10.0	-18.0

May

H	+ 7.2	+ 3.7	+ 2.1	+ 4.4	+ 5.8	+ 2.7	- 2.9	-11.4	-15.2	-14.4	- 8.9	+ 0.2
D	+12.5	+12.8	+ 9.7	+11.0	+14.3	+18.1	+22.7	+25.5	+19.8	+10.3	- 4.6	-20.0
Z	+ 2.5	+ 1.9	+ 1.7	+ 1.9	+ 2.7	+ 3.2	+ 2.3	- 1.1	- 1.3	- 6.1	-11.6	-16.3

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
- 2.1	- 3.7	- 4.9	- 5.4	- 5.8	- 6.3	- 7.2	- 9.0	- 5.7	- 2.1	- 1.9	- 1.9	21 078 nT
-11.5	-14.0	-11.5	- 5.9	- 4.3	- 2.7	- 0.2	+ 1.9	+ 8.0	+12.6	+11.1	+12.2	1°05.6'
- 4.7	- 2.4	+ 0.8	+ 2.5	+ 3.4	+ 3.3	+ 3.7	+ 4.6	+ 4.4	+ 3.6	+ 2.8	+ 2.1	42 593 nT
- 5.2	- 6.2	- 8.0	- 5.9	-11.3	- 7.4	- 4.8	- 1.7	- 4.3	- 2.7	- 2.8	- 1.2	21 068 nT
-15.1	-21.7	-24.0	-18.3	-12.6	-10.6	- 7.4	+ 1.0	+ 6.6	+11.4	+16.0	+16.4	1°07.0'
- 7.5	- 6.2	- 2.4	+ 2.0	+ 4.7	+ 5.2	+ 5.7	+ 5.9	+ 6.5	+ 6.1	+ 5.1	+ 4.1	42 599 nT
- 4.1	- 3.3	- 4.0	- 8.9	-11.8	- 8.3	- 4.8	+ 0.6	+ 0.9	+ 4.9	+ 6.8	+ 7.8	21 074 nT
-28.8	-32.7	-30.9	-19.2	- 9.9	- 5.6	- 2.3	+ 5.7	+ 5.0	+12.1	+12.6	+14.7	1°06.1'
-12.2	- 7.2	- 2.1	+ 2.5	+ 5.8	+ 6.1	+ 6.8	+ 7.2	+ 6.5	+ 5.0	+ 3.4	+ 1.8	42 598 nT
+ 4.6	+ 5.2	+ 0.7	- 5.7	- 6.0	- 2.7	+ 2.5	+ 3.7	+ 1.3	+ 3.7	+ 6.4	+ 6.6	21 076 nT
-34.3	-38.9	-33.2	-22.9	-13.9	- 6.6	+ 4.1	+ 5.0	+ 3.3	+ 5.2	+ 8.8	+12.6	1°06.8'
-20.0	-16.2	- 9.1	- 1.2	+ 5.5	+ 9.0	+11.1	+10.0	+ 9.3	+ 8.4	+ 6.8	+ 5.1	42 588 nT
+ 5.5	+ 3.4	- 2.4	- 5.1	- 4.1	- 2.3	+ 0.2	+ 5.5	+ 8.9	+ 7.0	+ 5.7	+ 4.4	21 082 nT
-32.6	-36.2	-32.4	-24.9	-14.9	- 7.3	- 1.8	+ 1.2	+ 2.2	+ 3.3	+ 4.7	+ 6.6	1°07.2'
-17.2	-14.3	- 7.8	- 0.9	+ 5.2	+ 8.5	+10.1	+ 9.7	+ 8.3	+ 6.9	+ 6.4	+ 5.2	42 596 nT

	0	1	2	3	4	5	6	7	8	9	10	11
June												
H	+ 6.7	+ 6.8	+ 7.0	+ 6.6	+ 8.1	+ 6.6	+ 2.1	- 4.1	-11.0	-16.0	-15.1	-10.5
D	+ 6.2	+ 7.6	+ 9.6	+ 8.3	+11.5	+18.0	+23.1	+26.2	+24.6	+15.5	+ 1.8	-13.2
Z	+ 2.3	+ 1.3	+ 0.4	+ 0.8	+ 1.4	+ 1.7	+ 1.4	+ 0.4	- 1.2	- 4.8	- 9.5	-13.4
July												
H	+ 9.1	+ 8.9	+ 6.9	+ 8.3	+10.9	+ 9.5	+ 3.4	- 3.7	-14.0	-17.1	-17.0	-14.8
D	+ 5.2	+ 6.0	+ 5.9	+ 7.0	+12.9	+18.7	+22.2	+24.4	+23.4	+17.4	+ 6.2	- 9.0
Z	+ 3.3	+ 2.1	+ 1.8	+ 1.6	+ 2.0	+ 2.0	+ 0.7	- 0.5	- 1.4	- 5.1	- 9.3	-13.1
August												
H	+10.3	+ 8.8	+ 8.0	+ 8.6	+ 7.2	+ 4.7	- 1.0	- 8.7	-15.9	-18.0	-17.3	- 8.7
D	+ 8.0	+ 7.1	+ 8.3	+ 8.3	+11.4	+17.0	+21.4	+24.1	+20.8	+10.6	- 3.9	-18.5
Z	+ 1.1	+ 0.2	- 0.1	- 0.3	+ 0.5	+ 1.5	+ 1.2	+ 1.9	+ 1.0	- 2.6	- 6.6	- 9.8
September												
H	+10.6	+10.2	+ 9.6	+ 8.0	+ 8.7	+ 7.7	+ 2.1	- 6.9	-12.7	-18.3	-12.8	-10.6
D	+ 6.4	+ 8.0	+ 8.9	+10.1	+10.8	+ 8.2	+12.0	+14.4	+12.5	+ 6.3	- 7.7	-19.9
Z	+ 0.3	- 0.9	- 1.2	- 1.7	- 1.5	- 1.3	- 0.6	+ 0.3	- 0.1	- 2.7	- 7.2	- 8.8
October												
H	+ 9.3	+ 7.0	+ 6.8	+ 5.6	+ 5.2	+ 5.7	+ 7.2	+ 2.8	- 1.8	- 6.8	-11.6	- 9.1
D	+10.4	+ 6.6	+ 1.4	+ 1.4	- 2.3	- 3.0	- 1.8	+ 3.9	+10.0	+11.2	+ 1.4	-13.2
Z	- 1.6	- 2.1	- 3.1	- 3.3	- 2.9	- 2.1	- 0.2	+ 1.9	+ 1.8	- 1.9	- 6.2	- 8.1

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
- 5.6	- 4.5	- 3.8	- 4.7	- 1.6	- 1.6	+ 0.9	+ 4.7	+ 6.1	+ 8.3	+ 8.3	+ 6.3	21 082 nT
-23.2	-29.1	-31.2	-25.3	-17.3	-10.8	- 3.9	- 1.3	- 2.3	- 0.7	+ 2.0	+ 3.9	1°08.7
-13.4	-11.7	- 6.4	- 0.1	+ 4.9	+ 7.2	+ 8.5	+ 8.0	+ 7.0	+ 5.8	+ 5.1	+ 4.3	42 595 nT
-11.9	-10.7	-12.1	-10.0	- 4.2	+ 0.2	+ 4.0	+ 8.2	+12.1	+11.4	+11.3	+11.3	21 083 nT
-19.5	-27.2	-29.0	-26.2	-18.1	-11.8	- 7.7	- 5.2	- 0.9	+ 0.8	+ 1.0	+ 3.5	1°08.7'
-14.0	-11.5	- 6.5	- 0.9	+ 4.9	+ 7.4	+ 8.3	+ 7.4	+ 6.4	+ 5.9	+ 4.7	+ 3.8	42 599 nT
- 2.8	- 0.4	- 0.7	- 2.6	- 2.6	- 3.2	- 0.1	+ 4.2	+ 6.8	+ 6.7	+ 8.4	+ 8.3	21 080 nT
-28.5	-30.9	-28.7	-22.0	-14.0	- 5.4	- 1.8	- 2.4	+ 0.3	+ 3.7	+ 7.7	+ 7.4	1°08.3'
- 9.9	- 7.9	- 4.7	- 0.6	+ 3.9	+ 4.0	+ 5.8	+ 5.1	+ 5.2	+ 4.6	+ 3.9	+ 2.6	42 603 nT
- 6.4	- 5.1	- 3.4	- 4.5	- 8.2	- 5.2	- 1.8	+ 4.2	+ 6.8	+ 7.6	+ 9.2	+11.2	21 070 nT
-29.8	-27.5	-21.7	-15.9	- 4.0	- 0.2	- 0.1	+ 2.3	+ 7.7	+ 7.8	+ 5.0	+ 6.4	1°08.7'
- 6.9	- 3.9	- 1.1	+ 2.7	+ 7.6	+ 6.7	+ 5.9	+ 5.1	+ 3.9	+ 2.9	+ 1.9	+ 0.6	42 610 nT
- 7.1	- 7.0	- 6.2	- 7.9	- 7.0	- 8.0	- 4.1	+ 0.2	+ 4.4	+ 5.4	+ 8.0	+ 9.0	21 068 nT
-21.8	-23.5	-18.6	- 9.3	- 7.9	- 0.8	- 1.0	+ 7.2	+10.4	+13.0	+10.9	+15.5	1°10.0'
- 6.4	- 3.2	+ 0.1	+ 3.9	+ 5.1	+ 6.3	+ 6.4	+ 5.8	+ 4.6	+ 3.2	+ 1.8	+ 0.1	42 611 nT

	0	1	2	3	4	5	6	7	8	9	10	11
November												
H	+ 2.6	+ 0.6	+ 3.8	+ 5.1	+ 8.8	+ 9.6	+10.4	+10.8	+ 5.6	+ 2.1	- 4.0	- 7.2
D	+11.6	+ 5.2	+ 2.2	- 2.1	- 4.0	- 6.8	- 5.6	- 3.3	+ 2.3	+ 2.2	- 4.0	-11.1
Z	- 0.3	- 0.8	- 1.6	- 2.0	- 2.7	- 2.4	- 2.4	- 1.9	- 2.2	- 4.7	- 6.8	- 6.5
December												
H	+ 3.0	+ 1.2	- 0.3	- 0.2	+ 2.0	+ 3.4	+ 5.5	+ 7.3	+ 6.4	+ 4.4	+ 1.9	+ 1.3
D	+ 8.1	+ 2.7	- 0.2	- 2.5	- 4.1	- 3.2	- 4.9	- 5.4	- 4.4	- 6.2	- 8.0	-10.1
Z	- 0.1	- 1.2	- 1.7	- 2.0	- 2.0	- 1.7	- 1.3	- 1.7	- 2.8	- 3.1	- 2.5	- 3.2
1984 Yearly means												
H	+ 6.1	+ 4.9	+ 4.6	+ 4.7	+ 5.9	+ 5.8	+ 4.3	+ 1.2	- 3.6	- 7.4	- 8.1	- 6.1
D	+ 9.8	+ 8.3	+ 6.3	+ 4.8	+ 5.4	+ 6.4	+ 8.7	+11.8	+13.3	+ 9.2	- 1.6	-13.8
Z	+ 1.1	+ 0.1	- 0.5	- 0.8	- 0.5	- 0.1	+ 0.2	+ 0.2	- 0.7	- 4.0	- 7.6	-10.2
1984 Quiet days												
H	- 2.8	- 3.3	- 3.2	- 1.6	- 0.6	+ 0.9	+ 0.7	- 0.1	- 2.0	- 4.4	- 5.8	- 2.1
D	+ 9.4	+ 7.5	+ 6.8	+ 6.2	+ 8.1	+10.7	+12.8	+14.5	+13.7	+ 8.9	- 0.5	-10.2
Z	+ 3.2	+ 3.0	+ 2.5	+ 2.5	+ 2.6	+ 2.8	+ 2.5	+ 2.4	+ 1.2	- 1.7	- 4.6	- 7.3
1984 Disturbed days												
H	+16.0	+14.8	+14.4	+17.2	+17.0	+10.9	+ 5.0	+ 0.1	-10.2	-16.1	-18.3	-15.0
D	+14.6	+13.7	+ 9.0	+ 5.7	+ 0.6	- 1.3	- 2.8	- 0.8	+ 5.6	+ 4.5	- 5.2	-17.6
Z	- 3.0	- 4.4	- 5.8	- 7.2	- 7.8	- 6.7	- 5.0	- 3.4	- 2.9	- 4.6	- 7.7	- 9.7

12	13	14	15	16	17	18	19	20	21	22	23	Monthly Averages
- 7.0	- 8.2	- 8.9	- 6.6	- 6.4	- 6.8	- 8.3	- 1.5	- 1.0	- 0.5	+ 3.4	+ 3.6	21 070 nT
-16.6	-14.4	-10.9	- 6.2	- 5.9	- 3.0	+ 3.7	+10.7	+11.8	+15.0	+15.5	+13.7	1°10.2'
- 4.7	- 0.4	+ 2.0	+ 3.6	+ 4.1	+ 4.8	+ 5.7	+ 5.7	+ 5.2	+ 4.5	+ 3.0	+ 0.8	42 610 nT
+ 2.2	- 1.6	- 5.1	- 6.3	- 8.6	- 7.1	- 5.1	- 3.0	- 1.7	+ 0.6	+ 0.2	- 0.4	21 068 nT
-11.6	- 9.8	- 5.9	+ 0.9	- 0.7	+ 4.8	+ 3.4	+ 6.5	+ 8.5	+13.3	+16.9	+11.9	1°10.2'
- 2.8	- 0.4	+ 1.9	+ 2.7	+ 3.5	+ 3.9	+ 3.9	+ 3.5	+ 3.2	+ 2.0	+ 1.2	+ 0.7	42 615 nT
- 3.3	- 3.5	- 4.9	- 6.1	- 6.4	- 4.9	- 2.4	+ 1.4	+ 2.9	+ 4.2	+ 5.3	+ 5.4	21 075 nT
-22.8	-28.5	-23.2	-16.3	-10.3	- 5.0	- 1.2	+ 2.7	+ 5.1	+ 8.1	+ 9.4	+10.4	1°08.1'
-10.0	- 7.1	- 2.9	+ 1.4	+ 4.9	+ 6.0	+ 6.8	+ 6.5	+ 5.9	+ 4.9	+ 3.8	+ 2.6	42 601 nT
+ 1.7	+ 2.9	+ 1.8	+ 1.4	- 0.1	- 0.5	+ 0.6	+ 2.0	+ 4.3	+ 3.9	+ 3.0	+ 3.3	21 083 nT
-17.1	-19.4	-16.9	-12.0	- 8.0	- 5.6	- 5.0	- 3.5	- 2.0	- 1.3	+ 0.6	+ 2.3	1°07.2'
- 8.1	- 6.8	- 4.6	- 2.0	+ 0.3	+ 1.0	+ 1.3	+ 1.7	+ 2.0	+ 2.0	+ 2.1	+ 2.0	42 599 nT
-12.9	-11.0	-16.0	-15.2	-10.0	- 9.0	- 2.3	+ 6.7	+ 6.5	+ 5.7	+ 9.2	+12.5	21 059 nT
-26.1	-27.0	-24.5	-13.4	- 6.6	+ 2.1	+ 5.6	+12.6	+13.7	+13.3	+13.1	+11.2	1°09.5'
- 8.6	- 4.2	+ 1.5	+ 7.7	+12.3	+13.4	+14.4	+11.9	+ 8.8	+ 6.5	+ 3.7	+ 0.8	42 607 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	7.7	358	2.4	219	1.9	127	0.7	293	0.7	246	0.6	19
February	7.7	8	3.9	210	2.0	82	1.8	6	0.7	116	0.1	270
March	7.4	64	1.3	158	3.0	204	1.8	54	0.8	191	0.7	175
April	5.6	108	2.9	34	4.3	235	3.4	75	1.6	228	0.5	226
May	6.6	122	3.1	56	5.6	262	2.2	107	0.5	25	1.2	82
June	9.5	101	2.9	342	3.4	230	1.1	87	0.6	313	0.3	69
July	13.9	99	3.2	294	3.4	243	1.8	117	0.4	358	0.5	62
August	10.1	108	4.5	21	4.1	236	1.5	75	0.2	23	0.5	114
September	11.3	95	3.0	21	3.9	233	1.3	82	1.0	63	0.5	222
October	9.1	75	0.4	224	2.7	190	1.3	41	0.2	320	0.4	146
November	8.1	37	3.0	247	2.1	168	0.2	274	0.2	203	0.8	140
December	4.9	7	2.7	173	0.8	197	1.1	48	0.2	282	0.5	70
Year	6.6	76	0.4	330	2.3	222	1.2	69	0.1	271	0.3	117
Q	2.1	167	0.6	248	2.8	210	0.4	45	0.6	232	0.4	135
D	16.8	79	2.6	336	2.9	258	2.0	73	0.5	164	1.5	127
Declination												
January	7.7	99	5.9	171	3.0	69	2.0	253	0.7	49	0.5	29
February	14.5	70	8.0	171	3.8	56	1.7	257	0.2	58	1.0	66
March	15.9	63	11.6	213	6.3	67	3.0	249	0.9	138	0.7	87
April	19.1	57	12.8	226	7.9	62	1.2	277	1.3	139	0.5	207
May	20.9	49	12.5	238	5.7	74	0.4	23	0.7	55	0.3	62
June	19.2	34	11.9	229	4.8	66	0.8	39	0.3	221	0.2	315
July	18.8	29	11.4	222	3.5	65	0.4	178	0.3	54	0.9	25
August	18.3	46	11.8	235	5.3	88	0.4	230	0.8	231	0.6	316
September	14.6	64	9.7	246	4.6	74	2.5	280	0.3	286	0.7	54
October	10.6	85	8.9	199	5.2	69	3.1	266	1.5	111	0.6	107
November	10.6	110	6.5	185	2.5	79	2.1	289	1.5	122	0.3	206
December	9.9	126	2.9	192	2.4	134	1.5	224	0.2	201	0.5	273
Year	13.5	61	8.8	217	4.4	72	1.3	263	0.4	121	0.2	48
Q	12.2	39	5.7	237	4.2	78	0.4	303	0.8	62	0.6	61
D	15.2	92	7.8	215	5.8	43	2.1	282	1.0	91	0.8	41

	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	4.0	149	1.4	285	0.8	143	0.2	336	0.4	39	0.3	187
February	5.9	137	2.6	268	1.2	125	0.4	233	0.2	346	0.3	135
March	5.2	132	5.1	269	2.4	115	1.3	320	0.2	231	0.2	189
April	8.6	117	7.7	257	3.5	90	1.0	272	0.3	140	0.3	317
May	8.9	116	6.5	271	2.0	91	0.8	234	0.4	138	0.2	331
June	7.2	119	5.3	269	1.9	94	0.5	235	0.2	145	0.1	108
July	7.3	117	5.1	273	1.9	83	0.6	235	0.2	146	0.2	31
August	4.7	117	4.1	261	1.6	105	0.5	276	0.2	210	0.2	69
September	4.2	151	3.5	280	1.9	103	0.5	307	0.4	241	0.5	65
October	3.8	164	3.7	265	1.9	114	0.9	334	0.4	210	0.2	93
November	4.8	160	2.0	283	1.0	151	0.9	339	0.3	198	0.1	339
December	3.2	171	1.2	289	0.5	137	0.1	336	0.3	77	0.2	259
Year	5.3	132	4.0	269	1.7	106	0.5	292	0.1	166	0.1	84
Q	4.1	83	2.4	272	1.3	96	0.3	304	0.1	59	0.2	63
D	9.3	174	4.9	266	2.3	90	0.6	292	0.2	212	0.2	268