

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:

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.

Three-hour magnetic activity indices (M)

	January M	Sum	February M	Sum	March M	Sum
1.	01111821	15	01219699	37	11239979	41
2.	10111553	17	49999924	55	99999998	71
3.	23121789	33	34549959	43	41024222	17
4.	62022223	19	86569879	58	30344211	18
5.	30022000	7	99232958	47	32752100	20
6.	12212143	16	33324597	36	00011100	3
7.	11123333	17	95261234	32	00011100	3
8.	41211152	17	71232279	33	20122237	19
9.	11001010	4	32113122	15	81224776	37
10.	10011012	6	21149997	42	45332211	21
11.	01000010	2	68327949	48	11322143	17
12.	00000000	0	92249799	51	00121252	13
13.	01121110	7	98435799	54	35213212	19
14.	00001011	3	34844399	44	11122271	17
15.	15112235	20	52343510	23	13011101	8
16.	01334594	29	01113120	9	12111110	8
17.	42011110	10	01399999	49	00124689	30
18.	11000199	21	56365397	44	85443524	35
19.	00011000	2	97448497	52	52242102	18
20.	21110121	9	32254329	30	00364233	21
21.	01163592	27	41137238	29	42344599	40
22.	55453299	42	37355999	50	99552543	42
23.	54235447	34	94123996	43	12224200	13
24.	73333359	36	73233426	30	11132344	19
25.	61211302	16	99685691	53	44346235	31
26.	00011034	9	29699129	47	31032234	18
27.	21214219	22	32134011	15	33212100	12
28.	75464411	32	20022289	25	02122001	8
29.	00111293	17			01322123	14
30.	77553410	32			23125412	20
31.	44449984	46			43334445	30
	$M_{II} = 2.00$		$M_{II} = 4.48$		$M_{II} = 2.31$	
	$M_{D} = 1.71$		$M_{D} = 4.11$		$M_{D} = 2.29$	
	$M_{Z} = 0.18$		$M_{Z} = 0.54$		$M_{Z} = 0.30$	

	April M	Sum	May M	Sum	June M	Sum
1.	21215319	24	44434942	34	44422244	26
2.	97445999	56	17566485	42	59422242	30
3.	69354599	50	44469993	48	11223214	16
4.	83343336	33	91383511	31	31115412	18
5.	63331168	30	11232334	19	11322311	14
6.	22322343	21	11111100	6	19422221	23
7.	10122100	7	21011000	5	23244321	21
8.	00223219	19	30101101	7	11122522	16
9.	12112121	11	42212211	15	95424311	29
10.	22137999	42	11102111	8	37949932	46
11.	94564548	45	22112212	13	35524355	32
12.	11226323	20	11131110	9	93412999	46
13.	23222002	13	01111222	10	99659979	63
14.	30203111	11	12114201	12	83556373	40
15.	01133112	12	24338862	36	22435792	34
16.	21212084	20	11152331	17	51222421	19
17.	24551411	23	23213623	22	11213100	9
18.	00323244	18	24299346	39	02211121	10
19.	11112233	14	13223121	15	01235749	31
20.	34424112	21	21223211	14	54335733	33
21.	92246493	39	11124201	12	21134301	15
22.	87522211	28	20121100	7	01127679	33
23.	01123222	13	11101000	4	54432313	25
24.	10111419	18	01202111	8	21342139	25
25.	89999831	56	01221431	14	44472110	23
26.	20242123	16	61224976	37	03112425	18
27.	10313599	31	53669999	56	87333156	36
28.	93333333	30	73989869	64	72474453	36
29.	52435597	40	95585476	49	85147372	37
30.	64242636	33	22396589	44	56655113	32
31.			94745665	46		

$$M_H = 2.95$$

$$M_D = 2.54$$

$$M_Z = 0.37$$

$$M_H = 2.62$$

$$M_D = 2.02$$

$$M_Z = 0.28$$

$$M_H = 3.14$$

$$M_D = 2.39$$

$$M_Z = 0.52$$

	July M	Sum	August M	Sum	September M	Sum
1.	62324445	30	32133232	19	41124211	16
2.	21513224	21	93469999	58	31222333	19
3.	21112210	10	42476774	41	54366432	33
4.	10011100	4	22124552	23	22344639	33
5.	01133110	10	43543653	33	94744429	43
6.	40262793	33	23224499	35	99999999	72
7.	65346472	37	99999971	62	99699895	64
8.	12234544	55	01123221	12	72232324	25
9.	52312222	19	21362664	32	99597799	64
10.	42313120	16	45455434	34	33111212	14
11.	22199976	45	43168992	42	22223253	21
12.	21259986	42	13463724	33	42222125	20
13.	59662999	55	33122212	16	93143713	31
14.	99999999	72	21122231	14	33321288	30
15.	86497628	50	11101011	6	01221334	16
16.	43492949	44	01201223	11	41225243	23
17.	93299203	37	33332124	21	31233221	17
18.	82356942	39	54324236	29	55234499	41
19.	34369924	40	22122253	17	44355496	40
20.	89742001	31	31235323	22	22456339	34
21.	13221434	20	33222322	19	89899989	69
22.	51144930	27	34037559	36	99999999	72
23.	41224222	19	42433434	27	85434667	43
24.	27458991	45	63424445	32	53944714	37
25.	65343345	33	23432349	30	31133195	26
26.	64244555	35	94327325	35	33399999	54
27.	53833631	32	51342312	21	95563995	51
28.	11246582	29	11111059	19	42222115	19
29.	51537821	32	54467986	49	11332131	15
30.	31343895	36	56534446	37	00135326	20
31.	43824422	29	42424323	24		

$$M_H = 3.74$$

$$M_D = 2.58$$

$$M_Z = 0.59$$

$$M_H = 3.27$$

$$M_D = 2.53$$

$$M_Z = 0.45$$

$$M_H = 4.00$$

$$M_D = 3.70$$

$$M_Z = 0.82$$

	October M	Sum	November M	Sum	December M	Sum
1.	13133689	34	97447999	58	00010000	1
2.	92255144	32	32225799	39	00001211	5
3.	41122114	16	95364100	28	00124521	15
4.	01232121	12	00121262	14	33101019	18
5.	13222111	13	30133370	20	44111111	14
6.	42234689	38	20334310	16	01111000	4
7.	88833641	41	00121001	5	02418896	38
8.	65241788	41	10012694	23	75244795	43
9.	11111101	7	32222112	15	11139923	29
10.	51165228	30	21123363	21	21799997	53
11.	61224334	25	35245524	30	55122789	39
12.	21242199	30	64244343	30	32125550	23
13.	16122999	39	83173289	41	01111114	10
14.	57233648	38	31146425	26	01101008	11
15.	11123132	14	12143545	25	32233010	14
16.	11334456	27	11121003	9	01112439	21
17.	35255247	33	10111214	11	69599999	65
18.	64435863	39	43115584	31	94398875	53
19.	22322249	26	32111247	21	36998427	48
20.	43254102	21	01011031	7	96449999	59
21.	22131144	18	62334493	34	63344699	44
22.	15121101	12	89422010	26	99611943	42
23.	00112123	10	00153999	36	31229876	38
24.	00112320	9	92199999	57	65133354	30
25.	11323243	19	94589997	60	31134731	23
26.	94499562	48	25443929	38	13013210	11
27.	10257254	26	12327791	32	11765219	32
28.	20023143	15	98343494	44	36237389	41
29.	36944738	44	31128999	42	54232646	32
30.	76349896	52	43125400	19	54331352	26
31.	15227799	42			31012001	8

$$M_{II} = 2.96$$

$$M_D = 2.76$$

$$M_Z = 0.39$$

$$M_{II} = 3.18$$

$$M_D = 2.96$$

$$M_Z = 0.40$$

$$M_{II} = 3.20$$

$$M_D = 2.94$$

$$M_Z = 0.28$$

II.

Disturbed and quiet days for 1982

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

III.

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

	0	1	2	3	4	5	6	7	8	9	10	11
January												
H	+ 2.7	+ 1.9	+ 3.7	+ 4.7	+ 5.0	+ 7.5	+10.0	+12.2	+12.4	+ 3.7	- 3.6	- 4.3
D	+ 7.8	+ 5.9	+ 3.6	+ 3.4	- 0.2	- 0.9	- 0.2	+ 3.3	+ 8.7	+ 8.7	+ 2.7	- 4.6
Z	+ 1.4	+ 0.6	+ 0.1	- 0.5	- 0.7	- 0.7	- 1.0	- 1.6	- 3.8	- 5.1	- 4.5	- 5.4
February												
H	+ 2.8	+ 4.0	+ 4.9	+ 6.9	+ 8.4	+13.7	+14.7	+14.9	+10.7	+ 3.7	- 1.3	- 4.3
D	+15.5	+12.9	+14.0	+ 7.7	+ 3.6	+ 0.4	+ 0.7	+ 3.5	+ 9.2	+11.5	+ 3.7	- 9.0
Z	+ 0.7	- 1.2	- 1.7	- 2.7	- 3.1	- 3.8	- 4.3	- 2.9	- 2.8	- 5.4	- 7.5	- 8.6
March												
H	+ 3.7	+ 5.1	+ 2.5	+ 5.6	+5.2	+ 6.0	+ 9.4	+10.5	+ 7.4	+ 1.3	- 5.7	- 7.5
D	+ 9.8	+9.7	+10.6	+ 6.7	+ 5.1	+ 4.7	+ 5.5	+14.0	+26.0	+27.5	+17.8	- 3.7
Z	+ 3.7	+ 2.3	+ 1.3	- 0.6	+ 0.1	+ 0.3	+ 1.6	+ 4.9	+4.1	- 1.4	- 9.3	-15.6
April												
H	+12.0	+11.2	+11.1	+ 8.4	+ 8.9	+ 7.8	+ 6.7	+ 1.6	- 9.3	-16.5	-18.2	-12.5
D	+ 7.1	+ 8.8	+ 7.6	+10.2	+10.2	+11.8	+20.2	+31.2	+35.1	+24.4	+ 4.7	-21.5
Z	+ 2.3	+ 1.6	+ 0.6	- 0.1	+ 0.2	+ 1.7	+ 3.5	+ 4.5	+ 0.6	- 6.0	-14.7	-21.5
May												
H	+ 9.5	+ 7.4	+ 6.3	+ 7.3	+ 8.9	+ 8.6	+ 0.1	- 8.6	-15.0	-19.3	-15.2	-10.0
D	+ 2.2	+ 4.1	+ 5.7	+ 4.4	+11.5	+22.0	+32.8	+36.1	+32.5	+19.2	- 1.7	-20.4
Z	+ 4.1	+ 3.3	+ 3.2	+ 3.7	+ 3.7	+ 4.7	+ 4.5	+ 2.1	- 2.1	- 9.1	-14.8	-19.7

12	13	14	15	16	17	18	19	20	21	22	23	Monthly averages
- 4.1	- 5.1	- 7.1	- 8.8	- 9.9	- 7.7	- 3.5	- 3.5	- 2.7	- 2.0	- 1.7	+0.2	21 082 nT
-11.7	-15.1	-13.4	-10.8	- 8.9	- 5.9	- 6.9	- 2.5	+ 5.7	+10.1	+11.8	+ 9.4	0°54,5'
- 6.6	- 5.9	- 0.4	+ 1.9	+ 2.8	+ 3.7	+ 4.3	+ 4.6	+ 4.6	+ 4.2	+ 3.6	+ 2.4	42 518 nT
-11.3	-13.9	-16.1	-16.1	-12.9	- 6.5	- 5.6	- 5.4	- 3.1	+ 2.4	+ 6.0	+ 3.4	21 057 nT
-19.3	-27.1	-28.5	-21.9	-16.6	-13.6	-10.3	+ 0.2	+ 8.9	+15.6	+21.6	+17.3	0°57,5'
- 8.3	- 5.9	- 1.9	+ 3.6	+ 6.4	+ 7.2	+ 8.0	+ 9.2	+ 4.7	+ 7.7	+ 4.9	+ 2.7	42 537 nT
- 6.5	- 5.0	- 4.4	- 7.0	- 9.5	-11.6	- 7.6	- 2.7	+ 0.2	+ 4.3	+ 4.2	+ 2.1	21 087 nT
-23.9	-35.8	-34.9	-29.2	-14.6	- 7.0	- 6.6	- 3.0	+ 1.2	+ 4.9	+ 5.5	+ 9.7	0°56,0'
-17.8	-15.5	- 9.7	- 2.6	+ 4.4	+ 6.5	+ 7.5	+ 7.8	+ 7.5	+ 7.1	+ 6.5	+ 5.7	42 523 nT
- 8.0	- 6.1	- 8.2	- 9.0	- 7.4	- 5.2	+ 1.4	+ 3.5	+ 3.1	+ 3.9	+10.4	+10.4	21 084 nT
-38.7	-46.3	-41.0	-29.1	-15.9	- 4.9	+ 0.5	+ 4.6	+ 4.3	+ 3.1	+ 6.8	+ 6.8	0°56,7'
-22.1	-15.8	- 7.2	+ 1.4	+ 8.3	+11.4	+11.0	+10.6	+ 9.7	+ 8.8	+ 6.8	+ 4.4	42 539 nT
- 5.1	- 3.0	- 4.3	- 1.8	- 1.5	+ 2.1	+ 2.1	+ 5.0	+ 6.3	+ 5.4	+ 6.0	+ 8.8	21 097 nT
-32.8	-37.5	-33.5	-26.0	-15.0	- 3.7	+ 0.5	+ 0.5	+ 0.4	- 1.0	- 0.9	+ 0.6	0°56,2'
-21.1	-17.2	-10.0	- 1.3	+ 5.3	+ 9.6	+10.7	+10.7	+ 9.1	+ 8.1	+ 7.1	+ 6.1	42 534 nT

	0	1	2	3	4	5	6	7	8	9	10	11
June												
H	+ 8.3	+ 8.8	+ 9.7	+12.1	+13.6	+ 8.6	-3.5	-12.9	-25.0	-27.9	-23.7	-14.5
D	+ 4.2	+ 6.4	+ 8.2	+ 7.5	+15.4	+23.1	+31.9	+35.2	+32.3	+20.1	+ 2.6	-16.3
Z	+ 1.9	+ 0.1	- 0.2	+ 0.3	+ 0.7	+ 1.6	+ 0.8	+ 1.0	- 1.1	- 5.1	-10.5	-14.9
July												
H	+11.2	+15.1	+ 3.1	+ 6.2	+ 8.1	+ 5.0	- 4.0	-16.6	-23.6	-28.0	-23.2	-17.0
D	+ 5.2	+12.7	+11.0	+13.6	+14.2	+23.9	+33.6	+35.1	+29.8	+17.7	+ 1.7	-16.6
Z	+ 2.5	- 2.6	- 1.3	- 1.6	+1.1	+ 1.5	+ 0.5	- 1.7	- 4.9	- 9.4	-13.2	-17.0
August												
H	+13.6	+10.3	+11.5	+11.3	+10.6	+ 9.8	- 0.1	-14.3	-23.3	-26.1	-24.2	-16.2
D	+ 3.8	+ 6.7	+ 5.5	+ 8.0	+13.7	+24.0	+32.8	+33.5	+28.0	+13.3	- 5.9	-22.2
Z	+ 1.1	+ 0.3	- 0.6	- 0.1	+ 1.9	+ 3.5	+ 3.5	+ 1.8	- 1.8	- 6.4	-11.3	-15.8
September												
H	+20.8	+17.2	+15.6	+16.2	+13.2	+17.1	+10.5	- 5.3	-20.7	-28.8	-29.5	-24.4
D	+10.5	+13.3	+ 6.3	+11.5	+ 9.5	+ 6.3	+19.0	+26.5	+30.1	+20.6	+ 1.0	-18.6
Z	- 1.3	- 3.3	- 3.8	- 6.1	- 5.2	- 6.2	- 3.2	- 0.6	- 0.6	- 4.7	- 9.8	-13.1
October												
H	+ 9.8	+11.9	+15.5	+13.2	+13.9	+13.8	+13.6	+ 8.7	- 2.0	-13.4	-20.3	-20.5
D	+ 9.1	+ 6.6	+ 7.2	+ 2.8	+ 1.4	+ 1.0	+ 6.8	+17.6	+27.2	+26.1	+ 8.4	-13.2
Z	+ 1.7	+ 0.7	- 1.2	- 1.4	- 2.2	- 0.7	+ 2.4	+ 5.8	+ 3.9	- 3.4	-10.5	-13.8

12	13	14	15	16	17	18	19	20	21	22	23	Monthly averages
- 7.7	- 3.4	- 4.2	- 6.9	+ 1.3	+ 3.6	+ 8.4	+10.8	+12.0	+11.9	+12.0	+ 8.4	21 092 nT
-30.6	-37.5	-40.9	-32.7	-23.0	-12.2	- 4.2	- 1.7	+ 0.5	+ 2.0	+ 3.0	+ 6.7	0°56,6'
-16.7	-14.7	- 3.8	- 0.6	+ 7.1	+11.2	+11.9	+10.7	+ 8.4	+ 7.1	+ 5.7	+ 4.1	42 542 nT
- 8.7	- 6.5	- 1.5	- 1.2	+ 1.4	+ 7.6	+13.3	+14.9	+12.3	+10.6	+11.1	+13.4	21 079 nT
-28.4	-36.1	-38.4	-33.1	-23.0	-14.1	- 7.1	- 0.1	- 1.3	- 1.4	- 1.4	+ 2.5	0°57,7'
-17.0	-14.2	- 7.9	- 0.1	+ 8.3	+11.7	+14.7	+13.9	+11.7	+ 9.8	+ 8.5	+ 6.9	42 550 nT
-11.2	- 4.9	- 3.2	- 1.6	- 0.1	+ 0.1	+ 2.4	+ 5.4	+12.3	+12.2	+12.6	+13.4	21 083 nT
-35.5	-39.6	-33.3	-25.9	-11.8	- 2.5	- 0.1	+ 0.9	- 0.6	+ 2.1	+ 1.1	+ 4.0	0°57,8'
-16.6	-13.3	- 6.4	+ 1.2	+ 8.6	+10.8	+ 9.8	+ 8.8	+ 7.5	+ 6.2	+ 4.6	+ 2.7	42 550 nT
-18.4	- 9.1	- 6.4	- 5.6	- 3.7	- 7.7	+ 1.5	+ 5.2	+ 5.2	+10.5	+15.2	+16.4	21 069 nT
-32.7	-42.3	-37.1	-29.4	-17.9	-10.4	- 0.5	+ 1.4	+ 6.1	+ 6.1	+ 8.4	+10.1	0°58,9'
-12.3	- 7.0	- 0.4	+ 7.3	+11.6	+13.2	+12.3	+10.6	+ 9.2	+ 6.7	+ 3.9	+ 2.1	42 570 nT
-16.0	-12.2	-10.4	-11.1	- 9.7	- 6.7	- 2.1	- 2.2	+ 0.7	+ 6.1	+ 7.2	+12.2	21 072 nT
-27.2	-34.9	-33.1	-24.3	-15.9	-12.2	- 4.4	+ 1.3	+10.3	+10.9	+15.7	+12.8	0°58,4'
-14.0	-11.0	- 5.0	+ 1.6	+ 4.9	+ 6.3	+ 6.9	+ 7.7	+ 7.7	+ 6.8	+ 4.7	+ 2.1	42 558 nT

	0	1	2	3	4	5	6	7	8	9	10	11
November												
H	+ 5.1	+ 3.9	+ 7.5	+ 6.5	+10.2	+12.4	+14.5	+13.4	+ 8.9	+ 0.2	- 7.8	-12.4
D	+14.0	+10.6	+ 5.1	+ 3.4	- 1.0	- 2.7	- 2.3	+ 3.7	+12.2	+13.6	+ 2.4	-10.3
Z	+ 0.5	- 0.4	- 1.5	- 2.0	- 2.2	- 1.9	- 2.3	- 0.7	- 1.5	- 5.8	-9.6	-11.5
December												
H	+ 4.7	+ 4.6	+ 6.2	+ 7.8	+ 9.7	+11.3	+14.0	+14.4	+17.0	+ 8.0	+ 3.1	- 0.3
D	+11.8	+ 9.2	+ 7.7	+ 2.5	- 0.7	- 3.4	- 2.8	- 0.7	+ 2.9	+ 4.6	- 0.9	- 6.1
Z	+ 1.4	- 0.2	- 1.6	- 3.1	- 3.4	- 3.1	- 3.0	- 3.8	- 5.7	- 7.8	- 8.7	- 7.8
1982 Yearly means												
H	+ 8.7	+ 8.5	+ 8.1	+ 8.9	+ 9.6	+10.2	+ 7.2	+ 1.5	- 5.2	-11.9	-14.4	-12.0
D	+ 8.4	+ 8.9	+ 7.9	+ 6.8	+ 6.9	+ 9.2	+14.8	+19.9	+22.8	+17.3	+ 3.0	-13.5
Z	+ 1.7	+ 0.1	- 0.6	- 1.0	- 0.8	- 0.3	+ 0.3	+ 0.7	- 1.3	- 5.8	-10.4	-13.7
1982 Quiet days												
H	- 1.6	- 1.4	- 1.4	- 1.3	+ 0.7	+ 2.0	+ 1.7	- 0.1	- 1.7	- 6.0	- 8.4	- 5.9
D	+ 4.0	+ 4.6	+ 5.4	+ 5.9	+ 7.5	+11.0	+15.5	+21.2	+24.2	+19.5	+ 6.0	- 9.2
Z	+ 5.2	+ 4.6	+ 4.2	+ 4.4	+ 4.7	+ 5.4	+ 5.1	+ 3.9	+ 1.3	- 3.6	- 8.1	-13.2
1982 Disturbed days												
H	+20.2	+20.7	+18.7	+23.4	+18.9	+19.0	+11.1	+ 0.6	-10.2	-19.1	-23.9	-18.5
D	+16.8	+18.8	+10.1	+ 9.3	+ 4.2	+ 1.4	+10.9	+13.0	+18.1	+13.2	- 1.2	-17.6
Z	- 5.8	-10.7	-10.0	-13.3	-12.1	-11.7	- 9.2	- 7.0	- 7.8	-10.8	-12.8	-13.4

12	13	14	15	16	17	18	19	20	21	22	23	Monthly averages
- 9.5	- 8.6	- 9.6	- 8.0	- 9.3	-11.5	- 8.1	- 5.0	- 4.2	+ 1.0	+ 3.7	+ 6.7	21 065 nT
-21.2	-24.8	-20.7	-17.6	-11.3	- 8.5	- 3.5	- 6.0	+ 9.9	+13.8	+13.9	+15.3	0°59,8'
- 9.6	- 5.6	- 0.6	- 3.6	+ 6.4	+ 8.9	+ 9.5	+ 9.0	+ 7.5	+ 5.6	+ 2.7	+ 1.5	42 569 nT
- 4.7	-10.5	-16.1	-17.3	-15.3	-16.4	- 9.4	- 7.7	- 6.2	- 1.1	+ 1.1	+ 3.1	21 066 nT
-11.7	-15.2	-14.6	-12.5	-12.5	- 8.6	- 2.9	+ 1.0	+11.4	+11.9	+14.3	+15.1	1°00,2'
- 6.4	- 3.0	+ 0.7	+ 4.4	+ 6.3	+ 7.3	+ 7.9	+ 8.2	+ 7.9	+ 6.4	+ 4.5	+ 2.6	42 581 nT
- 9.3	- 7.4	- 7.6	- 7.9	- 6.6	- 5.0	- 0.6	+ 1.5	+ 3.0	+ 5.4	+ 7.3	+ 8.2	21 078 nT
-26.2	-32.7	-30.6	-24.3	-15.5	- 8.6	- 3.8	+ 0.7	+ 4.7	+ 6.5	+ 8.3	+ 9.2	0°57,5'
-14.0	-10.6	- 4.8	+ 1.7	+ 6.7	+ 9.0	+ 9.5	+ 9.3	+ 8.4	+ 7.0	+ 5.3	+ 3.6	42 549 nT
- 1.7	- 0.7	- 1.2	- 0.8	- 0.2	+ 1.5	+ 2.8	+ 5.0	+ 5.8	+ 4.0	+ 5.1	+ 4.2	21 094 nT
-18.9	-27.5	-23.6	-17.4	-11.3	- 7.0	- 5.1	- 4.1	- 2.0	- 0.9	+ 0.4	+ 1.5	0°56,0'
-15.0	-12.5	- 7.0	- 2.2	+ 0.7	+ 2.6	+ 2.8	+ 3.0	+ 3.4	+ 3.6	+ 3.5	+ 3.2	42 533 nT
-18.1	-16.6	-17.9	-18.1	-15.9	-11.0	- 1.8	- 0.2	+ 0.8	+ 8.8	+15.6	+13.5	21 053 nT
-27.5	-35.7	-32.9	-27.6	-17.9	- 9.1	0.0	+ 9.5	+11.3	+11.0	+ 9.5	+12.8	0°59,3'
-11.1	- 5.1	+ 3.6	+14.8	+20.2	+22.4	+22.1	+20.2	+16.5	+11.7	+ 6.1	+ 3.2	42 562nT

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	7.8	20	3.1	236	1.1	147	2.0	18	1.3	222	0.3	127
February	11.8	34	5.6	227	1.1	149	0.9	149	1.5	270	1.0	290
March	7.5	38	2.4	220	2.9	182	2.4	338	0.5	253	0.2	241
April	11.1	85	3.0	326	3.4	226	2.2	65	1.8	262	1.5	245
May	9.3	109	4.0	346	4.1	245	1.6	128	0.4	312	0.1	290
June	14.8	117	6.5	340	6.8	256	1.6	128	1.3	263	0.5	317
July	16.2	127	6.2	337	4.5	249	2.4	101	0.4	145	0.6	303
August	14.9	112	6.2	349	6.1	236	0.9	186	1.0	326	0.9	287
September	18.1	92	7.2	336	6.8	218	1.4	58	0.7	294	3.0	265
October	14.7	69	5.2	303	3.6	191	1.5	18	2.1	254	1.4	267
November	10.8	38	3.3	259	3.6	166	1.1	346	1.0	230	0.5	227
December	13.5	19	4.7	200	0.2	159	0.4	23	1.2	245	0.4	159
Year	10.0	78	3.0	307	3.1	221	0.8	62	0.9	259	0.7	267
Q	3.7	129	1.9	261	2.2	204	0.9	65	0.7	215	0.4	113
D	20.1	72	4.6	320	4.5	243	0.6	103	2.4	258	2.2	272
Declination												
January	7.7	63	6.5	183	1.8	70	3.4	261	0.9	275	0.5	319
February	15.8	65	10.2	182	2.7	27	4.9	258	1.7	285	1.3	277
March	16.2	36	13.4	201	9.2	36	4.6	242	0.6	266	0.9	337
April	20.9	43	18.9	228	9.4	59	3.1	278	1.2	214	0.5	216
May	20.0	33	18.2	240	7.0	81	1.2	21	0.4	278	0.8	321
June	23.7	33	17.5	229	5.0	73	0.3	47	0.8	253	0.6	293
July	24.7	32	15.4	234	4.7	61	2.0	21	1.0	318	0.7	279
August	20.6	40	17.6	245	6.5	88	0.3	81	0.8	298	0.7	312
September	20.5	46	15.9	222	7.5	58	3.1	295	1.5	243	0.7	208
October	15.5	50	15.9	203	6.7	59	5.2	273	1.0	218	0.5	273
November	11.6	73	10.2	192	4.0	48	4.2	274	0.6	168	0.5	283
December	9.8	32	6.8	174	1.0	13	2.7	277	0.7	267	1.0	266
Year	16.7	45	12.9	218	5.2	60	2.4	274	0.7	260	0.6	285
Q	14.4	26	10.4	225	5.6	64	2.0	269	0.3	272	0.2	24
D	17.9	62	12.8	214	5.9	37	3.1	315	0.6	279	0.7	273

Vertical Intensity

	A ₁	φ_1	A ₂	φ_2	A ₃	φ_3	A ₄	φ_4	A ₅	φ_5	A ₆	φ_6
January	4.3	139	1.9	280	0.6	142	0.4	260	0.3	25	0.5	246
February	7.1	151	3.4	259	0.9	100	1.0	288	0.2	340	0.4	122
March	7.5	108	6.7	253	3.4	88	1.4	282	0.7	243	0.1	165
April	9.5	121	8.7	269	3.9	106	1.4	294	0.4	267	0.3	306
May	10.5	111	8.2	274	2.3	102	0.8	250	0.4	278	0.5	256
June	8.3	125	7.3	266	2.4	78	0.9	219	0.4	239	0.1	231
July	10.6	132	7.7	266	1.5	111	1.1	191	0.4	190	0.4	209
August	7.6	124	7.4	275	2.5	104	0.8	219	0.3	347	0.2	360
September	8.6	162	5.6	269	3.4	98	1.1	299	0.2	217	0.4	117
October	5.9	123	6.1	259	3.1	110	1.6	325	0.6	288	0.4	138
November	6.6	149	4.5	276	1.6	103	0.9	335	0.3	188	0.2	69
December	7.1	155	2.7	283	0.9	148	0.4	343	0.3	347	0.1	231
Year	7.4	132	5.8	268	2.1	102	0.7	281	0.2	268	0.1	194
Q	6.7	85	5.0	276	1.8	104	1.0	279	0.2	339	0.5	280
D	16.5	175	6.9	267	3.1	105	0.3	241	0.2	91	0.9	146