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 ot 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.	14222034	18	01223250	15	44434374	33
2.	11125112	14	00001122	6	99988999	70
3.	11114411	14	22102024	13	94358796	51
4.	01033204	13	10111999	31	85322399	41
5.	00023320	10	99999999	72	44334975	39
6.	00010011	3	99739960	52	93011152	22
7.	10001000	2	45569943	45	32022001	10
8.	11123232	15	94222214	26	21012221	11
9.	42121969	34	21123699	33	42120140	14
10.	99983225	47	49212131	23	10020134	11
11.	11432112	15	10077369	33	21244299	33
12.	94364422	34	73299683	47	92225899	46
13.	22101343	16	93469659	51	93323233	28
14.	21112126	16	73874429	44	17955369	45
15.	93233957	41	33337991	38	22235436	27
16.	22665991	40	49344996	48	11217110	14
17.	62239498	43	43133594	32	44131101	15
18.	92496538	46	42223133	20	50222799	36
19.	02357423	26	02212111	10	98454742	43
20.	33240155	23	73439999	53	69333895	46
21.	22311277	25	75674999	56	33221282	23
22.	10122112	10	96223286	38	12121233	15
23.	11011119	15	44221289	32	21210322	13
24.	21132559	28	92112571	28	33122175	24
25.	93222252	87	00021221	8	57988689	60
26.	12233240	17	01120012	7	84112122	21
27.	13111152	15	00121133	11	00012101	5
28.	00213344	17	20112168	21	13988878	52
29.	21212984	29			67334997	48
30.	22246336	28			86433963	42
31.	62225392	31			88395394	49
	$M_H = 2.51$		$M_H = 3.44$		$M_H = 3.44$	
	$M_D = 2.14$		$M_D = 3.33$		$M_D = 3.32$	
	$M_Z = 0.23$		$M_Z = 0.45$		$M_Z = 0.39$	

	April M	Sum	May M	Sum	June M	Sum
1.	13323884	32	32244199	34	24322432	22
2.	52222776	33	42221674	28	01122321	12
3.	42224205	21	23337223	25	11122401	12
4.	11313267	24	33444934	34	01100000	2
5.	75225220	25	42369535	37	02123211	12
6.	33458999	50	12232312	16	21122521	16
7.	43457799	48	21114221	14	13121220	12
8.	54429414	33	31111141	13	01146443	23
9.	32322984	33	51111100	10	20244498	33
10.	33464545	34	02112163	16	94469962	49
11.	21311011	10	51999999	60	23113122	15
12.	12053222	17	96536969	53	22345958	38
13.	94279876	52	93456997	52	99977585	59
14.	64544999	50	34432242	24	32222323	19
15.	95736993	51	22353339	30	51423571	28
16.	57445777	46	21213213	15	20111310	9
17.	42242499	37	93539699	53	21223574	26
18.	21223344	21	51353522	26	35985798	54
19.	00152142	15	00121000	4	24544422	27
20.	41133151	19	12001029	15	43125511	22
21.	22123136	20	47369952	45	32623263	27
22.	33242110	16	54845889	51	31133471	23
23.	13211219	20	93555595	46	41234232	21
24.	68587979	59	33539999	50	42111201	12
25.	83324989	46	84122110	19	00011141	8
26.	93924725	41	00113242	13	13223732	23
27.	42223303	19	13223142	18	21321232	16
28.	23124022	16	12111110	8	31125732	24
29.	62225989	43	00123210	8	32445421	25
30.	63432583	34	10122431	14	11033121	12
31.			22412723	23		
	$M_H = 3.68$		$M_H = 3.22$		$M_H = 2.67$	
	$M_D = 3.05$		$M_D = 2.39$		$M_D = 1.74$	
	$M_Z = 0.41$		$M_Z = 0.42$		$M_Z = 0.36$	

	July M	Sum	August M	Sum	September M	Sum
1.	12121110	9	01200112	7	64242315	27
2.	01111232	11	67837966	52	01111113	9
3.	22122212	14	44013483	27	01102010	5
4.	11012232	12	31111111	10	00111011	5
5.	10132320	12	10011001	4	10111102	7
6.	01196222	23	11102132	11	01011101	5
7.	11125318	22	01123239	21	11125993	31
8.	32211122	14	99933322	40	31235224	22
9.	24223224	21	63233220	21	32222464	25
10.	11121101	8	11122000	7	24223453	25
11.	00122112	9	11221121	11	32113325	20
12.	01103575	22	24324479	35	22233502	19
13.	89344112	32	73378125	36	22112304	15
14.	02221211	11	21222332	17	40101312	12
15.	12112112	11	32122454	23	63232699	40
16.	13129557	33	10102221	9	62326996	43
17.	54477459	45	21112102	10	55772363	38
18.	27244623	30	20001000	3	31222246	22
19.	11132242	16	00103842	18	55424999	47
20.	11121111	9	11212343	17	93236765	41
21.	11231221	13	46234757	32	51112510	14
22.	21111029	17	10223179	25	61335202	22
23.	34285493	38	27444698	44	00011101	4
24.	69439664	47	35367424	34	22123322	17
25.	52341221	20	94445392	40	48343795	43
26.	21021211	10	45334799	44	87454123	34
27.	11133221	14	20112210	9	33124128	24
28.	21121542	18	31122344	20	84001$\overline{3}$12	19
29.	25123242	21	31121569	28	32101011	9
30.	75334126	31	96532324	34	00011000	2
31.	42122211	15	59442978	48		
	$M_H = 2.17$		$M_H = 2.73$		$M_H = 2.41$	
	$M_D = 1.52$		$M_D = 2.01$		$M_D = 1.93$	
	$M_Z = 0.31$		$M_Z = 0.30$		$M_Z = 0.21$	

	October M	Sum	November M	Sum	December M	Sum
1.	20121649	25	37133129	29	34111327	22
2.	45333615	30	49757333	41	11111310	9
3.	21442622	23	32113999	37	00001002	3
4.	72346954	40	21012302	11	00111121	7
5.	11123101	10	10010001	3	13122456	24
6.	41133996	36	00111110	5	33644996	44
7.	24231212	17	00004356	18	45155999	47
8.	22132962	27	92256456	39	42123113	17
9.	21111111	9	46246999	49	10010000	2
10.	00111175	16	93223694	38	03197495	38
11.	01222100	8	82219699	46	15289986	48
12.	00111002	5	54874969	52	42124795	34
13.	66433936	40	22126479	33	73333598	41
14.	23212199	29	11358972	36	94333699	46
15.	93264183	36	43123979	38	94223227	31
16.	22423315	22	94322899	46	42010000	7
17.	12459999	48	93397999	58	20000122	7
18.	95379999	60	74333594	38	10000242	9
19.	22121310	12	53122276	28	52120132	16
20.	01112014	10	33257896	43	13010002	7
21.	00043543	19	21111181	16	01110010	4
22.	93344131	28	31111010	8	02133622	19
23.	51133649	32	00000000	0	12121445	20
24.	62334592	34	01021351	13	00125749	28
25.	21011203	10	32232116	20	63002141	17
26.	30210000	6	87322292	35	13020259	22
27.	00011011	4	00112320	9	52111185	24
28.	10011228	15	01014598	28	42234323	23
29.	53397999	54	63155227	31	31124111	14
30.	92132995	40	53134395	33	24356988	45
31.	23222213	17			45324999	45
	$M_H = 2.65$		$M_H = 3.25$		$M_H = 2.54$	
	$M_D = 2.49$		$M_D = 3.09$		$M_D = 2.28$	
	$M_Z = 0.27$		$M_Z = 0.32$		$M_Z = 0.15$	

II.

Disturbed and quiet days for 1983

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

III.

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

	0	1	2	3	4	5	6	7	8	9	10	11
							January					
H	+ 6.1	+ 4.9	+ 6.6	+ 3.8	+ 4.6	+ 6.9	+10.8	+13.1	+12.6	+ 4.2	— 5.0	— 9.3
D	+ 9.4	+ 8.0	+ 4.8	+ 2.4	— 1.6	— 1.1	— 5.9	+ 0.2	+ 4.8	+ 7.5	+ 3.2	— 5.1
Z	+ 0.7	— 0.3	— 1.1	— 1.6	— 1.7	— 2.2	— 2.4	— 3.0	— 3.3	— 3.8	— 4.5	— 5.4
							February					
H	+ 6.6	+ 6.2	+ 5.8	+ 5.9	+10.5	+10.5	+16.3	+16.5	+10.8	+ 2.9	— 5.9	—10.9
D	+12.3	+ 7.0	+ 4.5	+ 4.9	+ 0.3	+ 0.5	— 1.4	+ 1.1	+ 3.8	+ 7.0	— 1.6	—12.2
Z	+ 0.9	— 0.6	— 2.0	— 2.5	— 3.5	— 3.7	— 4.1	— 3.5	+ 3.4	— 4.3	— 5.7	— 6.9
							March					
H	+ 8.4	+ 4.8	+ 6.9	+ 3.7	+ 9.9	+10.4	+12.9	+ 8.7	+ 0.6	— 7.5	—13.2	—14.9
D	+15.7	+13.3	+ 8.2	+ 8.2	+ 3.4	— 0.3	+ 4.5	+12.1	+15.8	+13.6	+ 3.6	—14.0
Z	+ 7.5	— 1.1	— 1.9	— 3.0	— 2.8	—11.0	— 1.5	+ 0.5	+ 0.4	— 2.2	— 6.5	— 9.2
							April					
H	+10.9	+11.0	+11.6	+10.0	+ 8.3	+ 6.5	+ 4.1	— 1.6	—10.2	—16.5	—19.3	—15.8
D	+ 6.4	+ 3.6	+ 4.7	+ 8.0	+12.0	+14.2	+16.6	+24.2	+26.3	+19.7	+ 3.3	—17.1
Z	+ 1.4	+ 0.5	— 1.2	— 1.6	— 1.0	+ 0.8	— 2.8	+ 3.2	+ 0.8	— 4.2	—11.9	—18.8
							May					
H	+ 5.6	+ 3.5	+ 3.6	+ 2.8	+ 2.3	+ 0.4	— 5.5	—12.5	—14.8	—14.8	— 7.9	+ 0.7
D	+ 4.6	+ 5.9	+ 8.2	+10.5	+16.2	+23.3	+27.2	+28.4	+22.3	+11.4	— 5.2	—21.5
Z	+ 3.3	+ 1.8	+ 2.6	+ 2.7	+ 4.0	+ 5.3	+ 4.6	+ 2.0	— 1.2	— 6.7	—13.2	—18.5

12	13	14	15	16	17	18	19	20	21	22	23	Monthly averages
— 9.1	— 8.3	— 8.8	— 6.2	— 6.8	— 9.2	— 8.4	— 4.6	— 0.7	+ 0.6	+ 0.5	+ 1.7	21 072 nT
—14.1	—18.4	—15.6	—10.9	— 7.2	— 3.9	— 3.0	+ 7.6	+ 6.1	+ 8.7	+12.3	+11.7	1°00.8'
— 6.6	— 4.0	+ 0.5	+ 3.3	+ 4.2	+ 4.7	+ 5.5	+ 5.7	+ 5.3	+ 4.2	+ 3.4	+ 2.4	42 586 nT
—15.5	—17.1	—12.0	— 8.0	— 8.1	— 4.4	— 8.3	— 3.6	— 4.5	— 0.6	+ 0.4	+ 6.5	21 061 nT
—18.8	—24.9	—21.3	—15.4	— 3.2	— 4.9	— 1.9	+ 8.9	+14.0	+14.3	+16.4	+10.6	1°02.0'
— 6.7	— 3.4	+ 0.9	+ 4.3	+ 5.9	+ 5.4	+ 6.1	+ 6.7	+ 7.6	+ 6.0	+ 4.4	+ 2.1	42 584 nT
— 9.7	— 4.7	— 4.3	— 4.2	— 6.9	— 9.0	— 2.9	— 2.9	— 0.2	— 1.0	+ 3.7	+ 6.4	21 067 nT
—26.6	—33.2	—32.1	—24.3	—14.3	— 7.6	— 2.7	+ 3.3	+11.6	+14.3	+14.2	+13.3	1°02.0'
— 9.7	— 7.6	— 3.0	+ 2.1	+ 5.5	+ 7.3	+ 7.4	+ 7.4	+ 7.7	+ 6.5	+ 4.9	+ 2.3	42 584 nT
—10.2	—12.6	—10.9	— 6.0	— 5.5	— 3.6	+ 0.2	+ 3.6	+ 8.5	+12.0	+13.0	+14.2	21 079 nT
—36.7	—42.8	—36.7	—27.7	—15.0	— 0.6	+ 2.5	+ 5.6	+ 9.0	+ 8.0	+ 7.1	+ 5.1	1°01.3'
—19.8	—14.2	— 6.0	+ 2.7	+ 7.6	+10.9	+11.6	+10.7	+ 9.0	+ 8.1	+ 5.4	+ 3.2	42 577 nT
+ 5.6	+ 4.7	— 0.6	— 5.7	— 0.9	+ 1.3	+ 4.5	+ 2.9	+ 5.7	+ 6.4	+ 8.7	+ 4.0	21 087 nT
—33.0	—37.7	—33.7	—25.3	—17.3	— 6.6	+ 0.1	+ 2.8	+ 1.6	+ 5.3	+ 6.5	+ 6.0	1°01.6'
—20.4	—18.2	—10.6	— 2.4	+ 5.3	+10.2	+12.0	+11.0	+ 9.3	+ 7.3	+ 5.5	+ 4.3	42 581 nT

	0	1	2	3	4	5	6	7	8	9	10	11
						June						
H	+ 7.8	+ 7.1	+ 7.3	+ 8.9	+11.3	+ 6.8	— 2.1	—12.1	—19.7	—20.4	—14.9	— 7.1
D	+ 2.9	+ 4.4	+ 5.3	+10.2	+20.7	+32.0	+35.2	+33.3	+28.9	+16.5	— 1.0	—19.1
Z	+ 3.6	+ 2.8	+ 2.4	+ 2.9	+ 3.4	+ 3.5	+ 1.2	+ 0.3	— 1.6	— 6.9	—13.1	—17.8
						July						
H	+ 9.0	+ 8.2	+ 7.3	+ 9.2	+ 9.7	+ 8.5	+ 2.2	— 7.6	—15.8	—20.3	—21.4	—16.5
D	+ 4.8	+ 7.7	+ 7.3	+11.4	+16.8	+25.4	+31.5	+34.3	+31.8	+18.9	+ 1.8	—17.9
Z	+ 2.6	+ 1.9	+ 1.7	+ 1.4	+ 2.6	+ 3.5	+ 2.7	+ 1.9	— 0.3	— 2.5	— 8.0	—13.1
						August						
H	+ 9.8	+ 9.8	+11.4	+ 7.8	+ 5.6	+ 6.1	— 1.9	—11.7	—21.3	—24.5	—17.5	— 9.9
D	+ 8.2	+ 7.6	+ 8.3	+10.5	+15.5	+19.8	+30.6	+32.1	+26.0	+11.1	— 6.1	—21.7
Z	+ 2.8	+ 2.5	+ 0.8	+ 0.2	+ 2.0	+ 2.7	+ 2.1	+ 1.6	— 0.9	— 4.9	— 9.8	—13.4
						September						
H	+ 9.3	+ 9.9	+ 8.8	+ 7.2	+ 5.2	+ 5.0	— 0.7	— 7.3	—15.8	—19.5	—16.0	—10.4
D	+ 6.0	+ 7.1	+ 9.5	+10.3	+10.2	+12.2	+16.5	+20.6	+20.4	+10.9	— 5.9	—21.4
Z	+ 1.4	+ 0.6	— 0.4	— 0.7	— 0.2	+ 0.5	+ 2.1	+ 2.7	+ 1.7	— 1.3	— 6.7	—10.4
						October						
H	+ 9.4	+ 8.4	+ 9.0	+ 8.2	+ 9.4	+11.8	+13.8	+ 9.5	+ 1.4	— 8.0	—14.7	—16.5
D	+ 9.6	+ 5.6	+ 2.3	+ 4.4	+ 0.7	— 1.3	+ 1.8	+ 9.6	+17.3	+18.7	+ 8.1	—11.7
Z	+ 0.5	— 0.5	— 1.6	— 1.6	— 1.1	— 1.1	+ 0.1	+ 2.4	+ 1.9	— 1.5	— 7.3	—10.1

12	13	14	15	16	17	18	19	20	21	22	23	Monthly averages
— 1.2	+ 1.0	— 1.1	— 7.1	— 1.5	— 2.5	+ 4.0	+ 5.5	+ 8.1	+ 8.7	+ 6.0	+ 7.2	21 092 nT
—31.5	—37.2	—37.7	—30.2	—20.3	—12.3	— 3.0	— 0.2	+ 1.0	— 1.4	+ 0.9	+ 2.6	1°01.4'
—18.4	—15.5	— 8.6	— 0.2	+ 6.4	+ 9.8	+10.8	+ 9.7	+ 8.0	+ 6.5	+ 5.9	+ 4.9	42 577 nT
— 9.6	— 5.9	— 7.0	— 3.9	— 2.6	— 0.3	+ 4.1	+ 7.3	+12.6	+12.4	+10.9	+ 9.5	21 091 nT
—30.8	—37.1	—35.2	—29.5	—20.4	—11.1	— 6.1	— 5.8	— 2.8	— 1.8	+ 2.6	+ 4.2	1°02.4'
—16.6	—14.6	— 9.6	— 2.1	+ 6.4	+ 7.1	+ 7.8	+ 6.8	+ 6.2	+ 5.3	+ 4.9	+ 4.0	42 573 nT
— 4.0	— 0.1	— 1.4	— 1.7	— 3.9	— 2.5	— 0.9	+ 5.4	+ 9.2	+12.4	+12.1	+11.7	21 086 nT
—31.5	—36.9	—33.8	—26.0	—16.7	— 5.3	— 2.7	— 1.7	+ 1.7	+ 1.6	+ 3.1	+ 6.8	1°03.3'
—14.7	—11.3	— 6.8	— 1.2	+ 5.0	+ 7.9	+ 8.1	+ 7.4	+ 6.7	+ 5.4	+ 4.5	+ 3.3	42 568 nT
— 4.1	+ 0.9	+ 4.2	+ 1.4	— 3.5	— 5.3	— 0.9	+ 2.2	+ 4.1	+ 4.9	+10.0	+10.6	21 084 nT
—31.9	—30.1	—25.9	—16.4	— 7.9	— 4.7	+ 0.6	+ 1.1	+ 3.6	+ 4.3	+ 5.5	+ 0.4	1°03.6'
— 9.7	— 7.3	— 3.9	— 0.1	+ 2.9	+ 4.4	+ 5.2	+ 5.3	+ 4.7	+ 4.4	+ 3.1	+ 1.7	42 575 nT
—12.6	— 8.8	— 9.1	— 8.0	—12.0	—10.4	— 6.0	— 1.9	+ 4.6	+ 6.7	+ 5.7	+10.1	21 075 nT
—23.6	—30.1	—27.3	—21.7	—12.4	— 2.6	— 0.4	+ 5.5	+11.7	+11.7	+11.8	+12.3	1°04.2'
—10.2	— 7.9	— 3.0	+ 1.5	+ 6.0	+ 6.8	+ 7.1	+ 6.5	+ 5.3	+ 3.7	+ 2.8	+ 1.3	42 578 nT

	0	1	2	3	4	5	6	7	8	9	10	11
							November					
H	+ 5.2	+ 4.6	+ 6.4	+ 3.3	+ 6.6	+ 9.9	+10.6	+10.7	+ 8.4	+ 1.2	— 3.3	— 7.8
D	+12.2	+ 6.6	+ 1.1	— 2.2	— 4.4	— 4.0	— 3.1	+ 0.3	+ 4.5	+ 4.9	— 0.8	—10.6
Z	+ 0.1	+ 1.5	— 2.0	— 2.3	— 2.5	— 2.0	— 1.8	— 1.3	— 1.9	— 4.5	— 6.8	— 7.4
							December					
H	+ 0.1	— 0.6	+ 1.9	+ 4.1	+ 6.1	+ 8.4	+10.2	+12.8	+11.7	+ 5.7	— 0.2	— 1.6
D	+ 7.8	+ 1.2	— 0.7	— 1.8	— 3.1	— 2.9	— 3.5	— 2.7	+ 0.7	+ 0.5	— 5.3	—10.7
Z	— 0.1	— 0.7	— 1.6	— 2.0	— 2.1	— 2.4	— 2.4	— 3.1	— 3.2	— 4.7	— 4.3	— 3.9
							1983 Yearly means					
H	+ 7.3	+ 6.5	+ 7.2	+ 6.7	+ 7.5	+ 7.6	+ 5.9	+ 1.5	— 4.3	—10.0	—11.6	—10.0
D	+ 8.3	+ 6.5	+ 5.3	+ 6.4	+ 7.1	+ 9.8	+12.5	+16.1	+16.9	+11.7	— 0.5	—15.3
Z	+ 2.1	+ 0.7	— 0.4	— 0.7	— 0.2	— 0.5	+ 0.3	+ 0.3	— 0.9	— 4.0	— 8.1	—11.3
							1983 Quiet days					
H	+ 0.7	+ 0.8	+ 0.9	+ 1.0	+ 2.3	+ 3.5	+ 2.7	— 0.9	— 6.8	—10.5	—12.0	— 8.5
D	+ 5.3	+ 3.9	+ 4.4	+ 5.8	+ 7.6	+12.0	+16.7	+20.7	+21.9	+16.1	+ 3.1	—11.5
Z	+ 3.4	+ 3.2	+ 2.9	+ 7.8	+ 3.5	+ 4.1	+ 3.6	+ 3.3	+ 1.6	— 2.2	— 6.7	—10.9
							1983 Discturbed days					
H	+18.8	+19.3	+18.4	+19.2	+18.4	+13.8	+10.4	+ 2.0	— 7.3	—14.8	—17.3	—18.9
D	+ 8.0	+ 9.2	+ 8.9	+11.4	+ 9.3	+10.4	+ 9.2	+12.9	+11.0	+ 6.0	— 5.1	—20.1
Z	— 1.3	— 2.2	— 5.5	— 6.9	— 7.4	— 7.0	— 6.4	— 5.7	— 5.8	— 7.7	—10.7	—12.9

12	13	14	15	16	17	18	19	20	21	22	23	Monthly averages
— 7.4	— 7.8	— 9.0	—10.9	—10.5	— 7.5	— 5.8	— 0.2	— 6.1	+ 3.6	+ 2.8	+ 3.0	21 070 nT
—20.9	—22.6	—17.6	—12.7	— 9.2	— 3.2	+ 4.3	+11.2	+13.7	+18.3	+17.1	+17.1	1°04.8'
— 6.0	— 2.7	+ 1.1	+ 4.0	+ 5.5	+ 5.5	+ 5.7	+ 5.4	+ 5.6	+ 3.8	+ 2.1	+ 0.9	42 596 nT
— 0.2	— 1.3	— 5.1	—11.1	—11.2	—11.2	— 9.2	— 6.7	— 3.5	— 0.2	+ 0.4	+ 0.6	21 074 nT
—15.0	—15.1	—11.6	— 4.2	— 4.2	+ 0.1	+ 3.2	+ 9.0	+12.2	+16.6	+15.1	+14.4	1°05.1'
— 3.3	— 1.1	+ 1.9	+ 4.2	+ 4.9	+ 4.9	+ 5.1	+ 5.2	+ 4.2	+ 3.0	+ 1.4	+ 0.1	42 597 nT
— 6.5	— 5.0	— 5.4	— 6.0	— 6.1	— 5.4	— 2.5	— 0.6	+ 3.2	+ 5.5	+ 6.2	+ 7.1	21 078 nT
—25.4	—30.5	—27.4	—20.4	—12.3	— 5.3	— 0.8	+ 3.8	+ 7.0	+ 8.2	+ 9.3	+ 9.0	1°02.7'
—11.8	— 9.0	— 3.9	+ 1.3	+ 5.5	+ 7.1	+ 7.7	+ 7.3	+ 6.6	+ 5.3	+ 4.0	+ 2.5	42 581 nT
— 3.0	+ 0.6	+ 1.3	+ 0.3	— 0.4	— 0.5	+ 0.1	+ 3.4	+ 5.8	+ 5.9	+ 6.3	+ 7.0	21 088 nT
—21.9	—25.6	—23.4	—17.5	—10.8	— 6.9	— 4.2	— 2.1	— 0.5	+ 1.1	+ 2.5	+ 3.3	1°02.6'
—12.0	— 9.8	— 5.9	— 2.1	+ 1.1	+ 2.7	+ 3.3	+ 3.2	+ 3.1	+ 2.9	+ 2.6	+ 2.3	42 578 nT
—16.2	—17.3	—16.5	—14.7	—12.9	—10.8	— 5.1	— 1.6	+ 3.5	+ 7.2	+10.2	+12.2	21 068 nT
—32.2	—37.4	—35.4	—26.3	—12.2	— 0.3	+ 3.9	+10.4	+14.3	+15.5	+16.0	+12.6	1°03.1'
—11.9	— 6.5	+ 1.9	+ 9.3	+14.2	+17.1	+16.5	+14.4	+11.6	+ 7.4	+ 4.3	+ 1.2	42 585 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	8.9	34	2.9	234	3.2	126	2.3	346	0.5	318	0.9	87
February	11.7	40	4.9	255	4.1	116	0.3	37	0.3	17	0.8	159
March	9.4	58	3.4	313	4.0	174	2.0	35	0.9	161	0.7	186
April	14.5	94	2.1	326	3.0	209	0.9	84	1.4	30	0.8	160
May	6.7	135	3.6	56	4.5	267	2.5	118	1.1	266	0.8	4
June	10.1	112	4.7	14	5.8	257	2.1	109	0.3	93	0.6	46
July	13.6	107	4.0	328	4.6	232	1.1	85	0.3	352	0.7	57
August	12.7	113	5.0	28	5.5	236	1.4	91	1.2	349	0.5	266
September	9.6	108	5.5	27	4.4	214	1.4	55	0.6	82	1.1	233
October	12.5	64	2.6	273	4.3	181	2.3	21	0.1	31	0.2	139
November	9.1	39	2.9	229	1.7	150	1.3	40	0.6	216	0.7	317
December	8.7	9	2.8	197	2.3	194	1.3	9	1.3	223	0.5	61
Year	8.6	78	1.5	329	2.8	208	1.1	55	0.2	284	0.1	118
Q	5.3	119	1.7	324	3.9	203	0.8	51	0.4	245	0.2	196
D	19.4	71	3.0	339	1.7	221	1.1	67	0.5	3	0.4	101
					Declination							
January	9.0	83	6.6	180	3.7	42	2.2	250	1.0	97	0.4	163
February	12.7	87	8.2	200	3.1	48	3.0	252	1.0	39	1.1	85
March	17.1	66	11.9	200	6.3	51	2.7	271	0.3	346	0.8	81
April	18.5	50	17.6	229	7.1	53	2.6	246	0.8	141	0.5	50
May	21.1	46	15.5	240	4.3	85	0.3	213	0.4	191	0.7	275
June	24.0	34	17.3	240	3.6	86	1.0	113	1.1	102	0.5	20
July	24.0	32	15.3	235	5.8	82	0.1	214	0.5	191	0.5	335
August	21.7	42	14.9	240	5.8	89	0.9	49	0.7	264	0.4	124
September	16.3	52	11.6	242	5.9	79	2.5	292	0.6	198	0.0	45
October	12.5	65	12.9	202	6.4	48	3.3	257	1.2	148	0.7	63
November	12.3	99	9.8	192	3.2	66	1.8	259	1.4	100	0.5	239
December	10.1	113	6.4	197	1.8	112	2.1	249	0.7	122	0.3	162
Year	15.2	56	11.5	222	4.4	67	1.4	258	0.4	126	0.3	76
Q	14.3	34	10.4	227	5.1	75	1.3	270	0.3	124	0.3	53
D	19.3	73	13.3	227	4.2	40	2.2	237	0.8	258	0.2	16

	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	4.8	151	1.9	274	0.8	106	0.6	263	0.5	80	0.3	225
February	6.1	157	2.0	266	1.0	117	1.0	288	0.4	61	0.1	124
March	6.4	145	3.3	240	3.0	85	1.1	324	0.3	235	1.0	132
April	8.4	127	8.0	266	3.7	101	1.1	295	0.3	97	0.3	313
May	9.9	110	8.5	270	2.4	83	0.5	212	0.2	88	0.1	315
June	9.5	115	7.0	276	2.6	86	0.8	238	0.3	161	0.2	82
July	7.2	108	6.1	265	2.7	79	1.2	217	0.3	25	0.2	38
August	7.1	115	5.6	270	2.2	93	0.2	220	0.1	65	0.4	24
September	4.2	117	4.1	260	2.0	105	0.7	324	0.2	184	0.3	27
October	4.5	136	4.6	264	2.4	94	0.7	304	0.3	203	0.4	97
November	4.8	155	2.5	284	1.4	118	0.8	338	0.3	36	0.3	47
December	4.3	168	1.7	297	0.4	126	0.3	318	0.3	43	0.1	169
Year	6.1	130	4.5	268	2.0	94	0.5	283	0.1	91	0.1	83
Q	5.5	88	4.0	272	1.8	96	0.5	296	0.2	98	0.2	21
D	11.6	167	5.8	277	2.6	85	0.7	292	0.3	76	0.2	338