

CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS
DOMINION OBSERVATORIES

PUBLICATIONS
OF THE
Dominion Observatory
OTTAWA

VOLUME XXIII No. 1

RECORD OF OBSERVATIONS
AT THE AGINCOURT MAGNETIC OBSERVATORY
1950 - 1951

BY
W. E. Ross

THE QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1959

TABLE OF CONTENTS

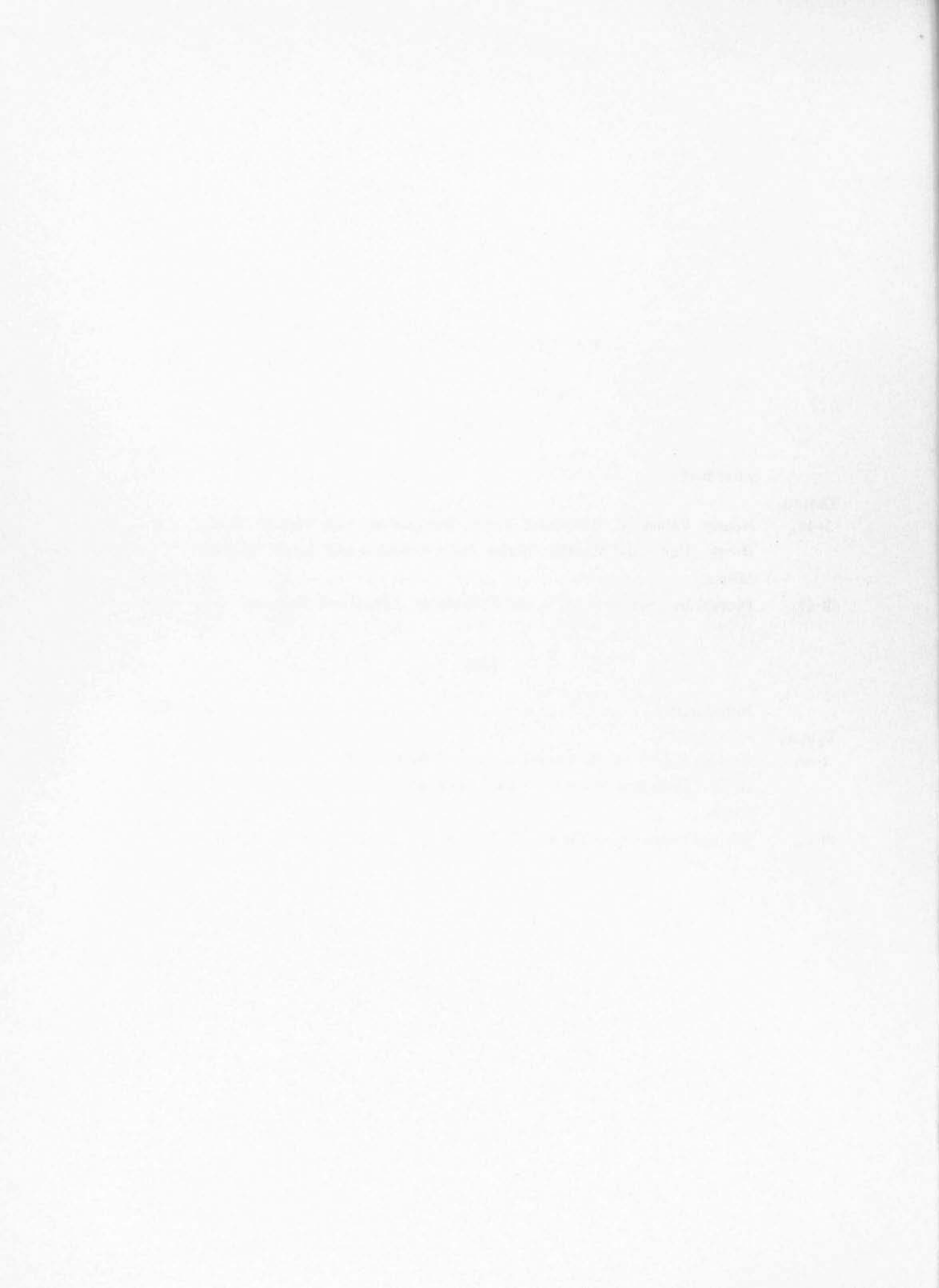
Agincourt Observatory

1950

	PAGE
Introduction.....	5-9
TABLES	
1-48. Hourly Values of Horizontal Force, Declination, and Vertical Force; Hourly, Daily, and Monthly Means; Daily Extremes and Range; Monthly Means.....	11-58
49-57. Diurnal Inequalities of H, D, and Z; Monthly, Annual and Seasonal.....	59-61

1951

Introduction.....	63-67
TABLES	
1-48. Hourly Values of Horizontal Force, Declination, and Vertical Force; Hourly, Daily and Monthly Means; Daily Extremes and Range; Monthly Means.....	69-116
49-57. Diurnal Inequalities of H, D, and Z; Monthly, Annual and Seasonal.....	117-119



AGINCOURT MAGNETIC OBSERVATORY

Geographic Latitude 43° 47' N Longitude 79° 16' W
Geomagnetic Latitude 55°.0 N Longitude 347°.0 E
Officer-in-Charge: W. E. ROSS *Assistant:* A. E. EVANS

1950

INTRODUCTION

At the end of 1936 direction of the Agincourt Magnetic Observatory was transferred from the Meteorological Service of Canada to the Dominion Observatory, Ottawa (Department of Mines and Resources, now Department of Mines and Technical Surveys).

During 1950 an office building 24 ft. by 27 ft., one storey with basement, was erected about 55 yards north of the old absolute and variometer building (1898). The flat roof and the main floor are steel and concrete; the walls are brick, lined in order with hollow tile, insulation (rock wool) and rock lath: the basement walls are steel and concrete and the basement floor concrete. There is a photographic dark room, lavatory, and ample space for three desks.

Photostat copies of magnetograms have been supplied regularly to several interested agencies. The observatory site was frequently employed as a calibration base for geomagnetic instruments.

Absolute Instruments

The absolute instruments described in the 1932-33 report are still in use, namely: Elliott 48 for declination, a Schuster-Smith magnetometer for horizontal force, and Toepfer earth inductor 89 for inclination. I.M.S. corrections, determined by Department of Terrestrial Magnetism, Carnegie Institution, inter-comparisons at Agincourt 1933-34 and later correspondence with Dr. Fleming, remain the same:—

For D, I.M.S. = Agincourt (Elliott 48) - 0'.8
" H, " = " (Schuster-Smith) 0.0 γ
" I, " = " (Toepfer 89) - 0'.15

Variometers

Two sets of magnetographs were kept in operation, a la Cour normal sensitivity set used as standard (for Z since 1939 and for D and H since 1941), and the old Kew set (Adie pattern) used as an auxiliary. The la Cour variometers were installed at the end of the Polar Year 1932-33 (see 1934-35 report). A quick-run la Cour set was operated for some years but has been discontinued.

For the la Cour scale coefficients the extreme limits of all determinations, by the Helmholtz coil method, since 1937 have been: H 5.04 and 5.24, Z 5.82 and 5.99 gammas per mm., D 0.90 and 0.92 minute per mm. D 0.91 and Z 5.90 have been used throughout. H 5.11 was used until July 1, 1943 and 5.15 since.

With thermostatic control in the la Cour basement the daily temperature range does not usually exceed 2 degrees Centigrade and the temperature compensation on the Z and H variometers is such that an investigation in 1938-39 detected no appreciable temperature coefficients. So no temperature correction has been applied to the Z and H la Cour scalings.

Some years ago extra relays were installed on both the la Cour and Kew sets to relieve the time clock contacts of the relatively heavy lighting currents.

Late in 1950 a change was made on the la Cour set from recording once a minute to continuous recording. To facilitate control of the brightness of the spots of light it was found necessary to place adjustable masks on the lenses (prism in the case of the declination) of the variometers.

The Kew H and D variometers are described in "Agincourt Magnetic Observations 1911", Part VI of the "Report of the Meteorological Service of Canada, 1911". The Z variometer was installed in 1914 (see "Agincourt Magnetic Observations 1914"). Electric lighting, instead of oil lamps, was begun in 1930. The D scale value is 1.28 minutes per mm. The H and Z scale values, obtained latterly by disturbance comparison with the la Cour magnetograms, are now 4.96 and 15.0 gammas per mm. respectively.

Notes on the Tables

Greenwich Mean Time is used.

In Tables I to III base-line values are for the la Cour variometers.

In Table IV (non-cyclic change) A, Q, and D indicate all, quiet, and disturbed days respectively. Declination is taken as positive easterly in Tables IV and 50, 53, and 56 (diurnal inequalities).

In Table V the annual means are based on all days.

In Tables 1 to 48 (hourly values and daily extremes) the hourly values are averaged over the hour whose G.M.T. beginning and ending are shown by the pair of figures heading the column. Estimated values are bracketed.

Highest and lowest values for the month etc. are marked in the daily extremes tables and the diurnal inequalities tables (49-57). In the latter a positive value is greater than the 24-hour mean.

In the daily extremes tables, character figures and K indices are not shown. These have been supplied regularly to the Association of Terrestrial Magnetism and Electricity of the International Union of Geodesy and Geophysics for inclusion in their "Geomagnetic Indices C and K" bulletins.

TABLE I—H BASE-LINE VALUES OBSERVED AND ADOPTED

Date	Observed	Adopted	Date	Observed	Adopted
1950	γ	γ		γ	γ
Jan. 12.....	15104	15103	Sept. 8.....	15106	15103
17.....	110	103	21.....	104	103
Mar. 28.....	094	103	21.....	105	103
28.....	091	103	28.....	105	103
May 8.....	096	103	Oct. 25.....	106	104
18.....	105	103	Nov. 22.....	112	106
June 23.....	107	103	Dec. 28.....	105	109
July 14.....	099	103			

TABLE II—D BASE-LINE VALUES OBSERVED AND ADOPTED

Date	Observed	Adopted	Date	Observed	Adopted
1950	° ' "	° ' "		° ' "	° ' "
Jan. 9.....	8 8.5	8 8.3	Apr. 24.....	8 11.5	8 10.6
9.....	9.4	8.3	May 16.....	10.5	11.0
11.....	8.9	8.4	17.....	10.8	11.0
16.....	8.1	8.5	22.....	11.6	11.0
19.....	8.7	8.5	29.....	10.1	11.0
23.....	8.5	8.6	June 5.....	10.8	11.0
25.....	8.1	8.6	21.....	11.2	11.0
Feb. 1.....	8.3	8.7	July 3.....	11.1	11.1
9.....	8.9	8.7	10.....	11.5	11.2
13.....	9.0	8.8	11.....	10.8	11.2
24.....	9.3	9.1	21.....	11.5	11.2
27.....	8.5	9.2	Aug. 9.....	11.3	11.1
Mar. 6.....	9.1	9.6	Sept. 8.....	10.8	11.2
13.....	9.0	9.6	Oct. 3.....	12.0	11.3
27.....	10.2	10.0	16.....	11.3	11.3
Apr. 11.....	11.2	10.3	Nov. 8.....	12.0	11.6
21.....	11.3	10.5	30.....	11.1	11.6

TABLE III—Z BASE-LINE VALUES OBSERVED AND ADOPTED

Date	Observed	Adopted	Date	Observed	Adopted
1950	γ	γ		γ	γ
Jan. 23.....	56048	56090	May 12.....	56119	56090
25.....	081	090	30.....	095	090
Feb. 13.....	064	090	June 13.....	120	090
Mar. 7.....	070	090	19.....	077	090
30.....	110	090	28.....	118	090
Apr. 12.....	106	090	July 24.....	077	090
12.....	115	090	31.....	119	090
20.....	121	090	Aug. 4.....	081	090
May 10.....	092	090	Sept. 8.....	108	090
11.....	082	090	21.....	078	090
11.....	123	090	28.....	094	090
11.....	065	090	Oct. 16.....	096	090
12.....	094	090	25.....	057	090
12.....	082	090	Nov. 8.....	111	090
12.....	082	090	30.....	088	090

TABLE IV—NON-CYCLIC CHANGE (24h.-0h.)

Month	Horizontal Force			Declination			Vertical Force		
	A	Q	D	A	Q	D	A	Q	D
1950	γ	γ	γ	'	'	'	γ	γ	γ
January.....	+0.4	+3.6	- 3.9	-0.05	+0.06	+0.34	-0.1	- 2.7	- 1.0
February.....	-0.2	+2.9	-12.0	0.00	+0.59	+0.04	+0.2	- 5.2	+12.7
March.....	+0.2	-0.7	- 8.9	-0.09	-0.42	+0.41	+0.6	- 0.7	+ 5.3
April.....	+0.2	+6.4	- 1.3	+0.08	-1.09	-0.72	-0.5	+ 1.0	+23.0
May.....	+1.2	+4.0	-12.8	-0.06	-1.22	-1.91	+0.4	- 9.6	- 4.7
June.....	-0.9	+3.5	-24.6	-0.07	+0.57	+0.52	0.0	-10.3	-14.6
July.....	+0.9	+4.7	-24.9	+0.10	-0.37	-0.68	-0.8	- 4.9	-17.8
August.....	-0.5	+4.1	-19.5	-0.03	-0.33	+0.31	-0.6	- 3.4	-20.7
September.....	-0.6	+8.1	- 8.7	-0.03	+0.32	+1.94	+0.4	- 2.8	+12.4
October.....	-0.4	+2.7	-29.7	+0.11	+0.29	+3.93	+0.3	- 1.9	+41.8
November.....	+0.6	+7.3	- 0.7	-0.04	0.00	+1.18	-0.7	- 4.7	- 7.9
December.....	+0.5	+4.8	- 2.5	+0.08	-1.19	+1.77	0.0	- 4.3	- 4.1

TABLE V—ANNUAL MEANS

Year	D	H	Z	I	F
	° ' "	γ	γ	° ' "	γ
1936.....	7 36.9	15362	56658	74 49.8	58704
1937.....	35.9	333	604	50.6	644
1938.....	35.1	310	564	51.3	599
1939.....	34.0	292	522	51.7	554
1940.....	32.3	281	503	52.0	533
1941.....	32.4	288	482	51.3	514
1942.....	31.4	303	460	50.1	497
1943.....	30.8	309	461	49.7	500
1944.....	30.1	313	406	48.7	454
1945.....	27.7	322	392	48.0	436
1946.....	25.5	311	361	48.1	404
1947.....	22.3	338	370	46.7	419
1948.....	22.5	355	302	44.7	358
1949.....	20.9	360	237	43.4	297
1950.....	22.0	399	236	41.2	306

Date		Particulars		Amount	
Day	Month	To	By	Rs.	Paise
1	Jan	Balance b/d		100	00
2	Jan	Bank		50	00
3	Jan		Bank		20
4	Jan	Bank		30	00
5	Jan		Bank		10
6	Jan	Bank		40	00
7	Jan		Bank		20
8	Jan	Bank		60	00
9	Jan		Bank		30
10	Jan	Bank		70	00
11	Jan		Bank		40
12	Jan	Bank		80	00
13	Jan		Bank		50
14	Jan	Bank		90	00
15	Jan		Bank		60
16	Jan	Bank		100	00
17	Jan		Bank		70
18	Jan	Bank		110	00
19	Jan		Bank		80
20	Jan	Bank		120	00
21	Jan		Bank		90
22	Jan	Bank		130	00
23	Jan		Bank		100
24	Jan	Bank		140	00
25	Jan		Bank		110
26	Jan	Bank		150	00
27	Jan		Bank		120
28	Jan	Bank		160	00
29	Jan		Bank		130
30	Jan	Bank		170	00
31	Jan		Bank		140
Total				1700	00

Total

Date		Particulars		Amount	
Day	Month	To	By	Rs.	Paise
1	Feb	Balance b/d		100	00
2	Feb	Bank		50	00
3	Feb		Bank		20
4	Feb	Bank		30	00
5	Feb		Bank		10
6	Feb	Bank		40	00
7	Feb		Bank		20
8	Feb	Bank		60	00
9	Feb		Bank		30
10	Feb	Bank		70	00
11	Feb		Bank		40
12	Feb	Bank		80	00
13	Feb		Bank		50
14	Feb	Bank		90	00
15	Feb		Bank		60
16	Feb	Bank		100	00
17	Feb		Bank		70
18	Feb	Bank		110	00
19	Feb		Bank		80
20	Feb	Bank		120	00
21	Feb		Bank		90
22	Feb	Bank		130	00
23	Feb		Bank		100
24	Feb	Bank		140	00
25	Feb		Bank		110
26	Feb	Bank		150	00
27	Feb		Bank		120
28	Feb	Bank		160	00
29	Feb		Bank		130
30	Feb	Bank		170	00
31	Feb		Bank		140
Total				1700	00

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 4. Agincourt.

January, 1950.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range	Maximum 7° West +		Minimum 7° West +		Range	Maximum 56,000 γ +		Minimum 56,000 γ +		Range
	h. m.	γ	h. m.	γ	γ	h. m.	'	h. m.	'	'	h. m.	γ	h. m.	γ	γ
1	23 54	417	16 24	352	65	18 8	25.5	1 33	12.6	12.9	0 5	255	14 14	238	17
2	2 40	414	15 33	353	61	7 52	25.6	7 58	15.4	10.2	3 45	262	21 50	238	24
3	21 17	412	17 0	359	53	17 57	25.8	12 38	15.4	10.4	19 52	253	14 36	233	20
4	0 43	413	15 30	352	61	19 50	27.5	7 41	13.0	14.5	21 35	253	8 9	225	28
5 Q	9 52	409	16 11	352	57	17 38	23.9	14 27	14.5	9.4	0 1	248	9 58	230	18
6	11 3	410	16 30	344	66	17 0	28.3	3 10	11.2	17.1	8 19	249	15 42	229	20
7	2 58	407	15 35	350	57	18 44	26.2	2 52	5.9	20.3	2 42	255	9 24	216	39
8 Q	21 22	409	16 10	358	51	18 20	25.7	13 47	14.2	11.5	19 18	248	14 20	232	16
9	21 6	415	4 8	344	71	17 40	25.3	3 54	10.8	14.5	7 54	249	4 32	198	51
10	21 58	417	15 45	369	48	18 16	26.2	2 38	14.6	11.6	1 55	249	14 58	227	22
11	4 23	416	15 55	365	51	18 22	26.8	4 55	15.0	11.8	22 48	246	14 50	230	16
12	21 52	414	16 26	355	59	18 32	26.8	4 12	15.0	11.8	23 55	253	14 4	232	21
13	2 17	414	16 30	354	60	19 58	28.0	14 27	8.6	19.4	1 6	255	14 27	230	25
14 D	9 50	433	16 42	358	75	19 25	28.5	3 52	-2.9	31.4	3 44	254	8 54	225	29
15	12 0	421	17 4	349	72	12 5	33.4	14 17	13.4	20.0	20 20	248	12 25	205	43
16	0 3	400	16 15	365	35	7 22	29.5	3 45	8.6	20.9	19 35	249	7 16	203	46
17 Q	12 0	404	18 43	371	33	19 16	25.7	14 7	15.9	9.8	22 0	248	15 7	230	18
18 Q	21 45	407	3 35	361	46	18 20	22.0	3 28	12.3	9.7	4 15	249	16 0	232	17
19	13 17	415	23 59	364	51	22 8	31.4	14 22	14.1	17.3	23 53	292	11 51	215	77
20 D	10 42	415	17 54	322	93	17 25	38.2	4 19	12.4	25.8	1 20	290	8 12	95	195
21 D	21 5	404	17 8	319	85	18 52	29.7	15 7	14.1	15.6	21 0	269	11 33	206	63
22	21 48	401	16 54	349	52	18 44	27.6	4 50	12.1	15.5	3 28	259	4 13	207	52
23	22 42	430	17 21	365	65	9 2	29.3	15 17	13.7	15.6	19 27	249	9 15	227	22
24 D	20 25	430	17 4	250	180	20 34	36.7	13 15	8.9	27.8	23 30	370	15 52	214	156
25 D	6 14	419	9 50	304	115	10 50	38.3	5 43	-4.2	42.5	0 4	367	6 15	157	210
26	22 28	409	14 55	361	48	18 33	28.9	13 54	14.6	14.3	2 28	284	16 42	250	34
27	23 8	403	16 53	349	54	3 56	29.0	15 19	16.8	12.2	4 35	283	15 24	232	51
28	23 38	394	15 20	349	45	17 45	29.7	13 55	16.5	13.2	0 13	276	5 45	242	34
29 Q	23 51	399	17 29	355	44	20 0	27.9	4 6	17.8	10.1	18 15	261	14 50	248	13
30	4 12	416	6 58	323	93	6 47	36.4	8 32	8.5	27.9	20 56	278	7 43	180	98
31	20 37	409	17 10	361	48	21 53	24.3	14 18	16.5	7.8	0 30	256	17 3	243	13
Mean		412		348	64		28.6		12.1	16.5		266		218	48
No. days		31		31	31		31		31	31		31		31	

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 5. Agincourt. (H.)

15,000 γ +

February, 1950.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	400	394	397	394	384	382	389	393	395	401	399	402	402	402	387	374	373	373	379	389	394	396	400	402	392
2	401	396	402	402	407	404	405	386	307	335	379	355	396	377	381	365	361	369	375	374	375	386	386	388	380
3	390	390	389	389	388	388	389	381	384	371	373	388	388	378	361	365	363	365	373	384	371	384	399	415	382
4	410	407	405	402	400	395	399	399	396	400	405	397	395	398	381	378	384	381	368	389	379	393	393	393	394
5	390	388	388	412	394	384	394	391	394	394	398	394	393	386	378	369	366	368	374	389	395	397	404	404	389
6	404	404	404	400	400	395	386	389	391	400	407	410	402	396	394	385	378	376	383	393	397	404	409	415	397
7	409	412	410	402	405	406	403	400	402	399	399	398	402	399	395	384	376	379	376	399	401	407	391	394	398
8	400	404	400	402	393	397	394	397	399	400	395	393	394	385	373	363	369	359	369	375	389	391	404	390	389
9	376	390	399	396	395	390	395	395	397	396	394	390	394	389	379	365	358	365	381	396	404	402	404	400	390
10 Q	401	394	399	396	399	399	399	399	399	402	405	407	404	396	390	386	383	374	374	384	389	395	400	405	395
11	410	410	405	404	411	403	408	408	409	405	409	415	415	410	404	394	390	390	393	400	405	413	411	406	405
12	404	405	408	407	409	405	404	405	411	411	411	410	407	393	383	379	383	385	393	391	397	403	409	410	401
13 Q	410	405	406	409	410	409	410	409	412	415	416	413	410	408	403	397	394	391	388	390	402	410	415	415	406
14	412	407	399	393	404	405	405	409	412	414	416	415	411	406	393	386	384	379	385	401	413	413	416	418	404
15	413	413	408	408	354	351	354	349	402	405	404	406	411	418	411	399	390	388	389	394	399	409	406	411	396
16 Q	410	406	408	409	410	410	411	410	410	410	409	408	407	399	394	385	383	383	390	399	405	411	414	412	404
17 Q	414	414	415	411	410	415	415	414	416	419	417	414	409	400	385	381	379	384	386	391	402	409	415	415	405
18	415	414	414	415	415	415	415	414	415	418	417	416	412	407	396	383	378	386	391	405	415	420	420	430	409
19	424	423	421	420	424	421	418	421	424	423	424	423	421	411	400	390	383	379	388	399	407	415	415	422	412
20 D	424	422	424	425	416	420	417	421	417	420	422	422	421	409	384	374	409	386	397	628	572	762	420	567	449
21 D	350	381	283	288	201	180	309	157	302	324	307	322	326	340	288	313	337	346	339	350	364	380	390	378	315
22 D	369	353	342	354	357	354	338	364	365	373	379	379	373	364	349	340	335	337	347	353	350	380	373	367	358
23 D	371	363	362	358	355	354	360	366	367	362	366	316	292	324	350	314	337	338	376	415	467	533	520	474	377
24 D	443	340	333	270	330	309	352	337	368	369	364	361	365	358	342	322	314	313	324	338	352	361	373	372	346
25	354	354	351	348	361	377	383	382	389	385	391	397	393	388	369	355	349	349	354	364	373	384	395	395	372
26 Q	394	394	394	390	390	393	393	390	391	393	393	393	389	381	370	355	352	351	358	368	374	384	391	393	382
27	395	397	399	398	396	397	399	397	399	400	399	400	399	395	386	376	373	371	380	389	395	404	407	405	394
28	402	399	399	396	396	399	402	394	380	386	393	397	395	388	384	380	374	371	365	369	377	388	393	394	388
29																									
30																									
31																									
Mean	400	396	392	389	386	384	391	385	391	394	396	394	393	389	379	370	370	369	375	394	399	416	406	410	390

MAGNETIC DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 6. Agincourt. (D.) West.

7° + . . . '

February, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	20.9	21.0	20.7	19.7	17.4	18.8	19.8	20.2	21.3	18.8	17.5	19.6	18.5	18.5	17.3	19.2	21.2	22.9	24.3	24.3	23.5	22.5	21.7	21.2	20.5	
2	21.8	21.6	20.2	20.7	21.1	21.6	23.4	19.8	20.6	26.2	27.0	32.9	27.4	24.6	26.2	28.7	31.6	26.2	25.2	22.5	21.7	21.2	20.8	20.7	23.8	
3	20.7	20.9	21.5	22.0	22.5	21.4	23.2	30.1	21.0	21.4	26.3	25.5	20.1	19.0	22.6	24.4	26.1	24.4	25.6	25.7	26.3	23.9	22.2	19.7	23.2	
4	20.1	20.5	20.5	20.8	21.1	22.2	22.0	20.7	18.8	18.9	18.9	18.3	22.1	25.0	25.2	27.5	25.2	24.7	26.8	28.0	24.8	21.2	23.5	21.7	22.5	
5	20.2	19.7	20.1	18.7	19.8	19.3	21.2	20.6	19.1	19.1	18.0	17.8	17.8	17.0	17.6	19.9	21.7	23.4	22.5	22.5	21.9	21.2	21.1	20.7	20.0	
6	20.2	19.8	19.7	19.8	15.9	19.4	19.4	19.4	18.0	18.0	17.9	15.7	16.6	15.6	14.1	17.1	20.7	21.8	23.3	23.2	21.7	20.3	20.6	19.7	19.1	
7	19.2	19.2	18.9	12.7	11.4	19.6	20.5	21.6	20.3	16.6	15.6	17.6	18.3	18.9	16.8	18.8	20.7	24.4	27.7	27.5	25.3	24.7	19.8	19.7	19.8	
8	19.7	18.8	18.5	18.8	20.7	33.3	19.2	18.6	20.3	17.9	18.4	18.9	16.9	14.4	15.2	20.7	23.0	25.3	27.9	27.9	29.4	27.1	25.3	22.4	21.6	
9	17.9	19.3	18.4	18.9	18.0	18.8	20.7	18.4	19.0	18.7	18.0	18.5	17.0	14.4	15.2	18.5	25.0	28.0	29.1	28.0	27.0	23.4	25.6	23.6	20.8	
10 Q	20.1	17.9	17.0	19.0	19.4	20.1	20.0	20.3	19.6	19.5	19.5	18.7	18.0	17.9	17.1	19.4	21.6	23.4	24.7	24.9	24.3	22.8	21.7	20.7	20.3	
11	19.8	19.7	19.9	18.6	19.2	19.8	19.8	19.7	18.7	18.0	18.7	18.6	18.0	15.4	15.3	17.4	20.0	21.8	22.9	23.3	22.9	21.9	21.5	21.8	19.8	
12	21.8	21.5	20.0	19.8	20.0	20.1	19.9	20.2	19.9	18.0	18.0	17.6	17.5	15.1	16.5	18.4	20.0	23.3	24.7	24.4	23.5	22.7	22.4	21.7	20.3	
13 Q	20.8	20.2	20.2	20.2	18.9	19.9	20.0	19.8	19.0	18.1	17.9	17.9	17.6	16.7	15.7	17.2	18.9	22.4	24.3	26.3	24.5	23.3	21.9	21.2	20.1	
14	20.6	20.4	20.3	16.0	19.0	19.7	19.2	18.9	18.1	17.7	17.3	16.4	14.8	14.5	16.9	21.1	24.4	26.7	24.5	22.8	21.8	21.1	20.8	19.7	19.7	
15	19.9	19.6	19.0	19.4	18.7	19.4	19.2	18.1	18.4	16.1	14.9	16.4	17.6	17.2	17.1	17.8	19.8	21.7	24.4	26.6	25.7	24.8	22.9	22.4	19.8	
16 Q	22.0	20.6	19.8	19.3	19.8	20.1	19.8	19.2	18.9	19.1	18.0	17.8	17.4	16.6	17.2	18.4	21.8	24.2	25.4	24.5	23.8	22.7	22.1	21.1	20.4	
17 Q	20.9	20.3	20.1	20.1	20.3	20.3	21.6	19.8	19.0	17.7	17.0	17.2	17.1	16.7	15.6	18.8	21.0	24.7	27.0	27.0	26.6	24.1	22.6	21.6	20.7	
18	20.9	19.8	19.4	19.8	19.9	20.1	19.9	18.9	18.6	18.1	17.4	17.6	17.3	14.8	13.6	15.6	19.3	22.1	25.5	25.6	24.9	23.6	22.2	20.9	19.9	
19	20.0	19.4	19.2	19.4	19.0	19.0	19.1	18.5	18.3	18.0	17.4	16.8	15.5	14.3	14.5	16.1	24.6	22.1	24.3	25.0	24.2	22.9	21.9	20.9	19.6	
20 D	19.9	19.4	19.1	19.5	18.8	18.3	19.3	18.7	17.4	17.2	16.8	17.0	14.4	12.6	9.3	10.7	16.2	12.9	25.0	6.8	15.9	-4.7	29.3	17.6	16.1	
21 D	20.8	23.0	25.9	13.5	6.9	28.3	22.0	44.5	28.4	25.0	29.3	29.2	28.9	19.5	25.3	31.9	26.8	25.0	28.7	29.6	31.2	26.9	25.0	24.0	25.8	
22 D	23.2	18.3	18.5	22.2	20.8	19.5	16.9	20.3	22.7	22.0	21.1	20.1	19.9	17.8	16.7	22.5	22.9	24.7	27.7	29.2	28.8	25.6	25.5	23.5	22.1	
23 D	24.1	22.1	21.1	19.3	18.4	18.3	18.1	19.7	18.3	17.8	22.9	64.7	56.6	25.7	26.0	31.2	26.3	29.7	26.9	22.2	23.5	25.7	20.7	27.3	26.1	
24 D	16.6	21.0	17.6	13.0	12.4	20.9	37.7	11.4	14.7	18.4	20.6	22.7	19.7	16.8	16.3	16.5	19.7	23.4	26.6	28.1	26.9	25.1	27.1	23.8	20.7	
25	17.2	22.0	18.3	19.0	18.4	19.7	20.2	19.3	18.3	21.6	20.2	20.3	20.9	18.1	15.1	16.0	19.0	22.4	24.9	26.1	27.2	26.1	24.5	23.1	20.8	
26 Q	22.3	21.6	21.4	21.4	21.0	21.2	21.4	21.2	20.7	20.7	20.3	19.9	18.4	16.6	14.6	15.6	18.5	21.1	22.5	23.2	23.9	24.1	24.0	23.1	20.8	
27	22.2	21.4	21.2	21.1	20.8	21.1	20.8	20.8	20.4	20.1	19.4	18.7	17.6	16.4	14.6	15.5	17.0	19.7	22.8	24.5	25.2	24.5	23.2	22.1	20.5	
28	21.2	21.3	20.7	20.4	20.9	20.0	18.4	18.5	23.0	22.5	18.4	21.2	20.1	17.6	20.7	20.9	21.4	23.4	25.2	25.8	25.2	23.8	21.7	21.0	21.3	
29																										
30																										
31																										
Mean	20.6	20.5	20.0	19.1	18.8	20.9	21.0	20.8	19.9	19.5	19.5	21.5	20.2	17.6	17.5	19.9	22.0	23.5	25.6	25.0	24.9	22.8	23.0	21.9	20.9	

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
 Mean values for periods of sixty minutes, Universal Time

Table 7. Agincourt. (Z.)

56,000 γ +

February, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	248	248	248	245	245	245	250	248	239	230	238	242	238	238	238	236	240	245	250	250	254	251	250	250	244	
2	249	249	248	248	245	245	236	200	137	118	167	174	165	204	214	225	227	236	243	250	257	260	254	255	221	
3	253	251	252	253	254	253	243	203	195	203	149	169	216	232	236	243	253	256	262	210	226	269	260	260	233	
4	254	253	249	249	248	242	239	238	245	248	243	236	238	231	227	233	242	249	253	260	274	275	266	260	248	
5	257	256	254	228	224	242	253	248	251	248	248	245	248	249	249	250	252	255	258	256	255	254	250	248	249	
6	248	246	246	247	243	238	236	236	242	242	242	236	242	242	236	231	229	231	236	242	248	248	248	242	242	242
7	242	243	243	242	230	238	242	242	236	242	242	242	242	242	236	231	229	231	236	242	248	248	255	273	260	242
8	251	248	245	245	242	183	219	236	239	244	242	237	236	231	227	230	239	243	248	252	259	258	260	272	241	
9	277	272	260	249	248	248	239	239	248	245	247	243	248	248	247	239	242	245	245	248	254	260	255	255	250	
10 Q	256	253	253	249	248	245	245	245	245	244	243	242	242	242	237	236	231	238	243	248	250	249	248	245	245	
11	242	244	243	242	237	240	243	244	244	242	239	237	233	234	231	230	232	232	234	236	236	236	236	238	238	
12	247	249	247	243	242	240	242	239	238	237	239	238	240	239	237	236	235	236	239	243	244	244	243	243	241	
13 Q	242	239	242	242	239	242	239	239	241	240	240	239	239	238	236	232	232	236	238	242	242	241	242	243	239	
14	240	241	239	242	243	242	242	242	242	242	239	238	238	234	230	230	232	236	240	239	238	241	242	239	239	
15	239	238	242	239	240	242	240	238	236	232	236	238	238	237	236	234	233	236	242	245	248	248	244	246	239	
16 Q	244	242	242	242	239	239	239	240	238	236	236	235	236	237	236	233	235	238	241	244	244	244	242	242	239	
17 Q	240	239	238	239	236	236	230	233	236	236	235	232	236	232	230	227	229	231	236	239	240	242	242	239	236	
18	238	237	238	237	236	236	236	236	236	236	235	234	233	233	233	230	227	225	231	236	239	238	238	236	235	
19	232	232	233	235	236	235	235	233	234	233	233	235	233	233	231	227	225	229	236	242	242	239	236	236	234	
20 D	233	232	232	232	230	230	230	227	230	232	233	232	233	235	227	224	222	212	231	373	387	292	363	330	254	
21 D	334	390	289	272	253	301	315	252	248	230	242	253	245	263	259	277	263	256	256	269	284	302	303	298	277	
22 D	301	286	291	255	241	249	220	248	255	261	263	262	265	265	263	263	267	278	292	286	274	285	283	285	268	
23 D	278	272	270	263	259	249	248	248	243	242	236	161	167	225	250	248	262	286	321	407	416	434	496	455	289	
24 D	422	357	351	273	271	224	168	233	256	262	263	263	272	272	269	275	279	284	282	292	308	303	299	381	381	
25	297	297	277	241	252	261	260	256	245	236	247	254	255	256	260	258	261	262	266	266	262	263	262	261	261	
26 Q	260	257	257	257	257	257	256	255	255	255	255	255	256	258	261	255	251	256	259	257	256	259	259	257	257	
27	255	255	254	254	255	255	254	254	253	253	252	253	254	255	254	253	250	255	255	254	255	255	255	253	254	
28	252	253	253	254	252	250	243	242	232	219	242	245	249	254	252	248	245	246	251	255	256	260	257	255	249	
29																										
30																										
31																										
Mean	262	260	255	247	244	243	241	239	237	235	237	235	237	241	241	240	242	246	251	260	264	264	268	264	248	

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 8. Agincourt.

February, 1950.

Day	Horizontal Intensity					Declination					Vertical Intensity											
	Maximum 15,000 γ +			Minimum 15,000 γ +		Range γ	Maximum 7° West +			Minimum 7° West +		Range γ	Maximum 56,000 γ +		Minimum 56,000 γ +		Range γ					
	h.	m.	γ	h.	m.		γ	h.	m.	'	h.		m.	'	h.	m.		γ	h.	m.	γ	
1	0	15	408	17	32	368	40	18	39	25.0	4	3	15.6	<u>9.4</u>	20	40	256	9	30	230	26	
2	12	25	412	8	37	257	155	11	55	42.7	8	3	10.6	32.1	21	12	261	8	58	82	179	
3	23	27	440	9	56	349	91	7	45	37.0	8	58	14.3	22.7	20	22	287	10	50	114	173	
4	0	58	420	18	17	361	59	15	55	30.2	11	10	17.1	13.1	21	0	288	14	0	226	62	
5	4	10	420	16	0	363	57	4	0	26.2	3	25	14.1	12.1	18	46	260	3	52	208	52	
6	23	2	415	16	22	369	46	18	48	23.7	14	7	8.8	14.9	21	28	249	17	4	226	23	
7	4	53	414	22	52	355	59	18	31	30.2	4	1	-6.3	36.5	22	40	294	16	20	223	71	
8	22	37	409	17	23	350	59	5	36	42.6	13	21	12.5	30.1	23	55	280	5	37	136	144	
9	20	38	409	15	53	353	56	18	2	29.8	14	5	13.8	16.0	0	42	281	7	0	233	48	
10 Q	23	58	409	17	28	370	39	19	14	25.2	2	5	14.4	10.8	2	3	256	16	40	229	27	
11	4	28	417	16	17	389	28	19	8	23.6	13	56	14.0	9.6	3	12	245	16	0	228	17	
12	23	29	414	16	38	370	44	18	45	25.1	13	18	14.2	10.9	0	45	249	17	10	235	14	
13 Q	10	38	416	19	20	378	38	19	24	29.0	14	24	14.7	14.3	19	26	243	16	10	226	17	
14	20	48	423	18	31	375	48	18	16	27.3	3	22	13.5	13.8	3	35	243	16	25	225	18	
15	13	23	419	18	51	383	36	19	34	27.2	10	42	14.4	12.8	23	41	248	9	25	226	22	
16 Q	21	57	417	17	1	379	38	18	19	25.5	13	48	14.3	11.2	21	17	245	16	10	226	19	
17 Q	5	58	425	16	22	379	46	18	57	27.7	14	6	14.7	13.0	20	55	242	15	50	220	22	
18	23	12	433	16	4	375	58	18	28	25.9	14	6	13.4	12.5	23	9	239	16	15	223	16	
19	23	46	430	17	0	377	53	19	48	25.6	13	45	13.0	12.6	20	15	242	16	50	222	20	
20 D	(21	20	953)	21	58	316	(637)	23	39	58.4	23	59	-35.2	93.6	19	14	502	23	24	43	459	
21 D	0	1	577	5	34	-21	598	7	6	61.9	0	1	-35.2	97.1	1	45	450	2	44	83	367	
22 D	21	56	402	18	9	316	86	19	51	31.1	1	8	5.3	25.8	1	0	326	6	43	202	124	
23 D	21	20	659	12	24	228	431	11	47	70.7	22	30	7.6	63.1	22	27	556	11	55	115	441	
24 D	0	22	716	5	40	150	566	6	4	61.2	3	27	-4.6	65.8	0	20	597	5	46	94	503	
25	11	59	406	2	50	337	69	20	15	27.4	2	58	9.7	17.7	0	1	302	9	54	219	83	
26 Q	0	25	398	16	40	350	48	22	9	24.2	14	22	14.4	9.8	18	17	261	16	45	249	12	
27	23	23	415	16	37	368	47	20	4	25.6	14	28	11.0	14.6	17	45	256	11	0	251	5	
28	0	1	403	18	48	355	48	9	0	29.3	13	28	13.9	15.4	22	45	261	9	27	209	52	
29																						
30																						
31																						
Mean			460			332	128			33.5			8.1	25.4			301			193	108	
No. days			28			28	28			28			28	28			28			28	28	

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 9. Agincourt. (H.)

15,000 γ +

March, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	394	389	385	383	388	391	391	399	394	392	393	399	399	391	385	378	373	370	373	384	390	395	395	399	389
2	397	392	394	392	393	393	390	397	394	403	404	400	395	391	384	381	379	375	379	381	390	398	400	401	392
3	400	400	394	399	400	403	410	401	399	400	404	403	401	394	388	376	366	376	386	397	404	408	402	403	396
4 Q	404	404	403	400	397	399	402	402	401	402	404	405	405	398	397	383	371	363	369	387	395	403	407	405	396
5	405	403	406	400	398	403	402	400	394	400	407	407	404	395	388	383	381	392	402	410	420	421	409	414	402
6	412	401	395	393	386	385	382	381	380	386	388	394	404	394	382	370	362	369	382	395	414	416	412	399	391
7	402	369	380	386	374	358	352	260	297	340	351	374	383	369	354	355	349	355	371	379	393	400	397	397	364
8	390	389	393	395	393	394	397	390	386	390	395	397	393	385	373	366	362	364	373	383	396	408	414	409	389
9	410	407	402	391	401	398	397	398	393	391	390	396	386	371	366	358	357	363	376	390	402	405	410	409	390
10 Q	407	402	402	404	404	406	407	405	405	406	406	406	401	393	383	376	373	372	379	394	404	411	410	407	398
11 Q	406	406	405	405	406	407	408	407	407	409	409	405	403	395	380	372	374	381	394	411	424	417	409	411	402
12 Q	411	410	409	410	410	410	411	410	408	408	411	407	395	379	362	358	366	381	398	409	409	410	408	410	400
13	412	411	411	410	408	409	409	409	410	410	408	405	398	386	369	363	372	381	395	395	407	413	411	415	401
14	419	417	416	419	419	418	419	410	395	407	409	398	404	395	386	376	370	386	421	414	426	421	415	415	407
15 D	414	410	379	361	390	402	402	390	394	398	404	405	395	381	372	364	364	367	382	399	407	412	406	401	392
16	402	406	404	401	399	407	396	399	404	405	402	404	396	388	375	364	364	375	390	400	414	416	412	411	397
17	409	409	405	407	408	409	412	404	394	400	399	399	399	393	384	379	381	386	397	407	413	408	410	412	401
18 Q	414	415	411	414	412	411	410	416	410	407	407	405	400	391	383	374	478	383	386	393	402	407	412	405	402
19 D	405	400	407	408	411	424	438	366	317	224	-332	-247	-36	138	147	194	262	335	364	348	349	355	355	363	266
20	364	358	361	366	367	369	369	374	373	373	373	368	363	359	349	338	338	348	357	384	397	389	385	370	366
21 D	378	378	381	380	363	355	378	384	378	357	380	366	345	332	319	317	328	352	366	402	426	410	390	374	368
22 D	374	364	364	361	354	332	377	394	385	368	357	366	369	353	345	335	332	346	377	385	403	423	421	402	370
23	385	386	386	391	391	393	395	399	399	396	400	393	386	380	369	359	357	364	377	384	390	393	400	402	386
24	399	385	351	354	342	354	305	331	342	358	363	362	373	378	363	353	364	374	389	395	405	409	400	405	369
25	399	390	381	385	389	372	374	395	396	399	399	394	389	381	367	363	363	374	389	400	410	407	405	407	389
26	409	401	395	397	399	400	402	399	401	398	404	400	400	391	381	381	388	398	405	413	425	436	431	416	403
27 D	407	414	374	385	384	393	410	401	400	381	404	405	393	378	366	342	337	376	379	387	424	408	404	402	390
28	402	405	398	393	400	404	412	400	399	399	383	384	402	388	369	353	352	363	374	381	397	405	409	410	391
29	412	414	402	397	405	403	401	417	416	427	420	417	412	390	383	366	369	369	384	393	400	411	410	410	401
30	416	414	405	407	407	410	411	407	407	411	408	407	398	376	367	363	386	387	391	404	409	410	414	419	401
31	419	419	417	419	419	419	412	395	394	407	419	415	412	402	364	333	361	402	410	421	415	441	391	393	404
Mean	402	399	394	394	394	395	396	392	389	389	373	375	380	375	365	357	361	372	384	394	405	409	405	403	388

MAGNETIC DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 10. Agincourt. (D.) West. 7° + . . . ' March, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	21.2	18.4	14.0	18.4	19.4	20.3	20.5	21.1	19.4	17.7	19.9	23.3	17.6	15.7	16.7	17.5	19.6	21.0	22.6	23.5	23.7	22.5	21.9	21.3	19.9
2	21.1	20.4	20.3	19.6	17.1	17.2	17.7	20.1	25.4	21.5	19.2	18.8	18.6	15.9	14.4	18.6	20.1	23.1	24.1	24.7	24.2	23.0	22.2	21.3	20.3
3	21.3	20.9	18.5	19.6	20.3	19.4	19.5	18.5	18.6	18.3	18.5	20.0	16.2	15.9	15.8	16.0	21.6	25.9	27.0	25.6	24.0	22.2	21.3	21.1	20.3
4 Q	20.8	20.4	20.3	20.7	20.4	19.9	19.0	20.0	19.4	19.1	18.5	18.3	17.7	17.2	16.9	15.8	18.3	23.3	25.9	27.0	26.3	24.1	22.5	21.8	20.5
5	20.8	20.3	19.7	19.9	19.0	18.6	18.5	19.1	20.5	24.1	18.6	16.5	15.8	15.5	16.3	18.5	21.3	24.1	24.9	24.3	23.3	23.1	22.3	22.1	20.3
6	22.1	19.3	18.7	16.7	16.5	18.7	15.4	13.6	16.9	18.4	18.6	19.1	14.5	12.7	12.4	15.3	21.0	25.1	29.1	29.5	27.4	26.8	27.8	25.0	20.1
7	25.1	17.3	17.7	16.9	13.7	15.0	16.9	39.6	26.0	9.0	14.8	15.5	16.3	15.7	16.0	19.7	23.5	26.3	27.3	27.7	26.3	25.1	23.2	20.3	20.6
8	19.4	20.5	21.3	21.3	20.8	20.2	20.0	18.2	17.4	19.1	18.2	17.5	15.4	14.3	14.9	18.7	23.4	18.2	19.9	19.7	18.7	16.5	14.3	13.4	18.4
9	22.2	21.5	19.7	18.8	19.8	20.1	20.1	18.8	17.8	20.5	16.9	15.0	12.9	13.4	16.1	19.1	24.9	28.8	30.4	29.5	28.0	25.5	22.8	21.5	21.0
10 Q	21.5	22.2	21.1	20.6	20.5	19.7	18.7	16.9	18.2	18.5	19.6	20.0	15.1	13.5	14.6	17.8	21.0	24.6	26.7	26.0	25.1	23.6	22.7	22.2	20.5
11 Q	21.8	21.8	21.6	20.9	20.7	20.9	20.5	20.6	19.8	19.3	18.5	17.5	15.2	13.2	13.4	16.7	20.1	23.4	25.3	25.7	26.3	25.7	24.4	23.6	20.7
12 Q	22.6	21.8	19.7	19.8	20.0	20.6	19.9	19.8	18.9	20.6	19.0	16.3	13.9	11.9	14.1	18.8	25.6	28.9	27.9	27.1	26.1	25.1	23.6	22.9	21.0
13	21.6	20.8	20.7	20.6	20.2	19.0	19.8	19.5	18.8	18.4	18.0	16.8	14.3	12.5	13.3	19.3	24.7	27.9	30.2	30.7	27.1	25.2	23.5	22.6	21.1
14	21.5	20.8	20.8	20.7	19.9	19.8	19.0	14.4	14.8	16.7	12.6	13.9	16.2	13.2	14.5	19.5	24.6	30.0	29.9	28.8	26.3	24.3	23.4	23.1	20.4
15 D	21.3	22.0	13.3	12.5	19.4	21.7	22.7	20.4	18.9	20.4	19.5	17.8	16.2	16.8	18.3	21.7	24.5	28.6	30.3	29.0	26.0	23.2	22.2	22.1	21.2
16	22.6	21.7	21.7	21.7	21.3	21.7	19.0	26.9	21.1	16.0	15.6	16.9	15.4	14.2	16.0	18.3	25.4	29.0	29.7	28.0	24.9	22.7	21.7	21.6	21.4
17	21.7	22.0	20.5	21.7	21.1	20.2	20.4	19.0	18.6	18.1	17.3	19.0	18.9	16.2	17.5	22.4	25.4	27.7	28.8	27.2	24.9	23.1	21.7	21.2	21.5
18 Q	21.4	19.4	19.5	20.8	20.8	20.8	21.8	27.2	19.9	17.6	17.4	16.7	15.3	14.5	15.5	18.8	22.5	25.9	28.3	28.5	27.4	24.9	23.0	22.5	21.3
19 D	22.8	20.8	19.9	20.3	22.3	22.8	22.1	15.2	51.1	21.3	40.0	89.8	78.9	44.3	29.3	36.7	41.3	30.7	26.2	27.5	26.4	25.0	23.5	22.8	32.6
20	23.1	24.3	23.2	24.3	24.1	23.9	23.6	23.6	22.7	21.6	20.8	19.9	17.7	17.5	18.3	21.8	26.9	29.6	33.4	30.7	28.1	27.0	26.9	25.5	24.1
21 D	24.3	22.6	21.6	21.0	18.1	18.2	20.0	21.4	20.4	22.6	26.7	28.5	34.9	30.0	25.2	24.5	32.5	32.9	32.7	26.3	23.3	21.6	22.7	25.0	24.8
22 D	24.6	23.8	17.7	12.3	12.8	14.4	16.8	21.4	19.9	15.5	22.8	14.3	12.2	12.3	15.6	18.3	24.2	28.1	31.3	32.2	32.2	30.1	30.0	28.2	21.3
23	26.8	23.3	22.6	22.3	22.4	22.8	22.3	21.7	21.3	21.7	20.8	18.0	15.5	16.0	15.5	19.5	23.8	26.3	27.3	27.1	26.4	25.3	23.8	23.9	22.3
24	24.1	20.6	4.0	13.7	15.9	15.3	20.1	22.4	11.8	11.0	8.8	9.7	10.4	12.8	15.1	19.4	25.4	27.8	27.9	27.4	25.9	23.8	22.6	22.4	18.3
25	26.7	25.9	22.4	21.2	19.8	14.2	17.1	20.6	21.9	21.5	21.0	19.1	16.9	16.0	17.1	21.1	25.1	28.0	27.7	26.8	25.3	24.4	23.3	23.3	21.9
26	23.0	22.5	23.0	23.1	22.9	22.2	21.6	21.3	20.5	21.6	18.7	17.7	15.4	14.7	15.5	20.2	25.0	28.3	29.8	29.0	28.3	27.1	28.0	30.1	22.9
27 D	26.3	17.4	8.8	22.1	20.2	23.8	19.8	17.8	19.2	26.9	24.0	18.4	15.9	15.6	17.8	24.8	29.9	31.9	30.7	33.8	27.2	22.9	23.3	23.2	22.6
28	23.0	22.4	21.0	21.8	22.6	23.4	24.7	19.3	19.2	20.1	25.8	26.5	20.2	17.5	17.4	20.8	25.7	28.3	28.3	27.4	26.0	24.5	23.4	23.7	23.0
29	22.9	22.3	22.3	23.6	23.8	20.1	20.2	19.2	15.3	13.8	17.0	18.9	10.8	9.8	13.8	18.8	24.5	27.4	29.2	29.0	26.5	24.7	23.8	23.0	20.9
30	22.6	22.4	21.5	22.6	21.5	21.8	22.6	19.2	19.7	22.6	20.9	19.9	15.6	15.2	18.3	22.8	26.0	28.3	28.7	27.2	25.6	24.0	23.3	23.0	22.3
31	22.6	22.1	22.5	22.1	21.6	20.2	17.3	24.9	15.2	15.8	16.2	17.4	18.9	10.3	14.8	24.8	29.9	34.6	31.8	31.2	32.1	30.2	30.1	25.7	23.0
Mean	22.7	21.4	19.4	20.1	20.0	19.9	19.9	20.7	20.3	19.0	19.5	20.6	18.4	15.9	16.5	20.2	24.7	27.2	28.2	27.7	26.1	24.5	23.6	22.9	21.7

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
 Mean values for periods of sixty minutes, Universal Time

Table 11. Agincourt. (Z.)

56,000 γ +

March, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	255	255	248	254	256	254	252	248	245	242	245	239	243	248	248	244	244	244	250	255	251	253	251	253	249
2	252	253	250	250	243	233	240	243	233	232	238	242	247	249	247	245	242	249	249	250	251	254	253	250	246
3	250	250	250	249	249	248	236	238	248	248	248	248	248	245	244	239	238	247	250	253	255	255	251	251	247
4 Q	250	250	249	249	250	248	240	242	248	249	249	249	248	245	241	233	227	231	245	249	250	254	254	251	246
5	249	249	248	248	250	245	243	245	245	239	242	247	245	245	245	241	238	236	242	245	248	249	245	248	245
6	249	256	265	266	259	253	254	251	254	251	250	249	249	246	242	236	236	239	238	242	249	259	278	272	252
7	298	296	277	268	255	228	230	230	137	132	191	219	245	249	256	253	256	260	262	267	267	267	266	267	245
8	266	262	259	256	254	253	243	232	242	250	253	254	251	249	245	248	245	249	253	254	255	256	256	255	252
9	255	253	248	255	254	251	250	249	246	239	242	249	249	248	249	242	245	245	248	250	250	251	250	249	249
10 Q	249	249	249	248	248	248	243	241	248	248	248	243	242	238	233	230	233	238	242	245	249	251	249	249	244
11 Q	248	245	245	245	248	248	245	246	245	243	243	246	248	245	238	236	238	239	242	245	250	250	248	248	245
12 Q	248	248	247	242	243	244	243	245	243	242	238	243	248	242	236	232	233	239	245	248	247	248	245	244	243
13	243	243	243	243	245	243	243	243	243	242	242	245	246	243	236	230	232	239	243	245	245	248	245	243	242
14	241	242	242	242	242	243	239	227	236	237	231	235	239	239	236	238	245	250	249	251	249	246	243	243	241
15 D	245	249	285	284	278	262	260	249	249	253	250	251	248	248	248	255	261	266	262	260	258	254	254	254	257
16	250	249	249	249	249	230	239	226	224	236	242	249	249	249	246	242	253	261	263	262	258	253	248	248	247
17	248	246	247	248	245	243	238	237	237	231	238	244	243	243	243	241	243	243	248	249	251	252	248	248	244
18 Q	248	247	245	245	245	240	236	217	219	234	242	244	245	243	242	239	242	245	249	251	249	251	253	251	243
19 D	250	250	242	243	239	229	214	150	-16	-74	9	-61	31	197	280	302	292	331	294	274	278	278	278	278	200
20	275	275	273	271	268	267	262	262	262	263	265	265	262	262	261	265	269	277	284	292	297	289	284	277	272
21 D	272	266	263	265	256	233	254	260	259	236	200	204	205	216	235	265	283	271	266	300	330	313	297	288	260
22 D	290	278	284	278	267	213	235	255	266	247	225	241	263	256	260	259	258	255	261	261	265	269	279	283	260
23	278	266	260	257	256	256	258	256	256	256	260	259	258	256	253	251	254	255	257	258	261	265	267	259	259
24	274	291	242	227	207	171	84	112	164	193	213	233	238	250	253	248	250	256	262	268	273	279	273	269	230
25	277	284	289	276	259	210	236	261	259	259	261	261	261	256	250	248	249	251	252	255	260	261	260	256	258
26	256	258	260	259	257	256	255	255	253	248	248	255	255	249	248	245	243	242	245	249	253	259	266	274	254
27 D	278	274	292	285	254	203	231	238	240	207	186	227	239	249	248	248	259	267	267	273	289	317	278	266	255
28	259	256	257	263	257	239	212	220	242	248	230	232	243	239	242	245	250	255	256	260	261	260	260	255	248
29	253	251	255	250	233	248	249	245	248	242	232	229	238	238	240	245	249	249	250	251	250	249	249	250	246
30	249	249	250	250	249	239	233	242	245	242	240	246	245	243	239	236	239	242	242	243	247	248	248	248	244
31	248	245	245	244	243	242	236	215	205	233	239	239	236	236	230	233	242	248	243	248	253	274	275	267	242
Mean	258	258	257	255	251	239	237	235	230	227	230	233	239	244	246	245	248	252	254	257	260	262	260	258	247

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 12. Agincourt.

March, 1950.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ	Maximum 7° West +		Minimum 7° West +		Range	Maximum 56,000 γ +		Minimum 56,000 γ +		Range
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		h. m.	γ	h. m.	γ	
1	2 17	411	17 13	365	46	11 28	28.0	2 13	5.0	23.0	4 6	259	11 47	230	29
2	11 0	404	17 20	371	33	8 41	28.8	14 27	13.1	15.7	21 45	255	8 26	224	31
3	6 15	419	16 10	363	56	18 17	27.4	15 22	13.8	13.6	21 52	256	6 37	228	28
4 Q	22 2	411	17 34	361	50	19 55	27.6	15 41	15.0	12.6	22 0	256	16 55	230	26
5	20 56	426	16 25	380	46	9 33	26.9	12 48	6.0	20.9	4 25	251	17 22	236	15
6	21 37	435	16 4	354	81	18 45	31.4	13 57	10.0	21.4	22 25	279	15 56	232	47
7	0 23	416	7 23	202	214	7 15	50.3	9 8	4.7	45.6	0 45	322	7 20	71	251
8	22 1	417	17 9	355	62	18 19	29.6	14 16	13.6	16.0	0 21	267	7 25	227	40
9	2 9	421	15 53	355	66	18 30	30.1	12 58	12.1	18.0	3 27	258	9 55	233	25
10 Q	6 46	414	16 55	369	45	18 27	26.9	13 30	13.3	13.6	20 50	251	15 10	230	21
11 Q	20 29	429	15 19	370	59	20 27	26.7	13 40	12.0	14.7	21 23	253	15 0	236	17
12 Q	4 38	415	14 53	353	62	17 32	29.7	13 50	10.4	19.3	19 48	249	15 55	230	19
13	23 58	416	15 32	361	55	19 26	31.6	13 50	12.1	19.5	21 20	248	15 30	227	21
14	18 55	440	16 12	368	72	17 27	31.7	9 53	9.0	22.7	19 51	256	7 48	219	37
15 D	2 5	416	3 6	332	84	18 35	30.6	3 10	-9.4	40.0	2 55	320	7 58	236	84
16	21 17	419	15 40	359	60	17 56	30.2	13 20	13.7	16.5	19 14	266	7 52	213	53
17	20 47	423	15 47	377	46	18 37	28.9	10 0	14.4	14.5	20 46	256	9 48	226	30
18 Q	7 24	420	15 25	371	49	18 39	29.0	10 0	14.6	14.4	21 24	255	7 36	210	45
19 D	5 55	451	10 30	-494	945	11 55	140.4	10 2	-26.7	167.1	11 0	420	9 55	-447	867
20	20 40	400	16 8	334	66	18 25	35.2	14 2	17.0	18.2	20 21	299	12 40	260	39
21 D	20 48	451	15 9	296	155	12 10	37.2	15 33	9.1	28.1	20 47	345	10 30	183	162
22 D	21 22	433	5 32	296	137	23 50	37.1	5 2	2.9	34.2	4 49	315	5 30	189	126
23	22 55	408	16 18	354	54	0 1	32.6	12 24	14.4	18.2	0 5	286	16 19	249	37
24	0 47	407	6 22	276	131	7 3	30.4	2 42	-16.7	47.1	1 40	303	7 0	49	254
25	0 4	419	5 41	347	72	1 48	30.1	5 12	6.9	23.2	2 6	297	5 41	189	108
26	21 27	444	15 31	376	68	23 52	31.1	13 57	14.3	16.8	23 57	285	17 22	239	46
27 D	21 10	437	16 24	322	115	5 7	39.2	2 25	3.6	35.6	21 25	356	10 7	190	166
28	5 58	419	15 51	347	72	11 2	31.1	14 17	15.7	15.4	0 5	263	6 22	207	56
29	7 28	450	15 12	352	98	19 0	30.6	13 29	6.5	24.1	2 45	259	4 24	221	38
30	1 0	421	15 18	350	71	17 50	28.7	13 37	13.8	14.9	2 38	253	6 0	227	26
31	21 24	468	15 34	318	150	17 8	37.6	13 38	5.6	32.0	22 23	279	8 16	194	85
Mean		425		317	107		35.1		8.1	27.0		281		190	91
No. days		31		31	31		31		31	31		31		31	31

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 13. Agincourt. (H.)

 15,000 γ +

April, 1950.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 D	405	392	402	388	404	384	386	374	361	377	374	389	364	364	384	378	369	377	389	411	455	452	409	391	391
2 D	400	385	379	377	357	319	309	292	359	374	378	383	382	363	348	332	321	333	380	395	419	441	424	405	389
3 D	388	380	385	402	392	385	390	389	386	394	377	383	391	374	353	331	348	364	382	400	436	465	404	396	387
4	384	400	392	383	355	347	339	318	288	348	361	355	375	364	356	342	329	334	374	386	401	405	408	409	365
5 D	394	399	383	377	311	381	397	405	390	398	376	371	385	351	324	310	311	317	364	405	427	512	507	450	385
6	384	406	389	386	379	376	365	395	399	398	378	371	377	363	342	330	328	347	379	396	435	440	435	404	383
7	399	395	393	389	388	389	385	395	401	398	393	377	359	362	362	347	339	345	359	376	399	407	407	412	382
8	412	404	402	407	407	405	409	406	397	396	402	400	393	373	354	349	350	358	369	385	385	397	405	406	390
9	409	410	408	402	405	410	408	407	406	403	407	393	380	370	369	386	389	385	389	391	400	408	412	407	398
10	407	397	390	410	391	398	403	405	407	405	405	400	394	380	367	361	374	386	399	414	420	426	422	419	399
11 Q	416	417	416	415	403	409	413	412	416	415	412	409	402	394	385	378	380	389	396	407	417	422	422	422	407
12	426	415	416	424	404	399	394	383	406	410	398	388	400	392	378	366	372	378	390	400	413	421	417	402	400
13	403	409	407	410	405	404	403	405	411	415	414	404	399	397	385	374	384	399	412	419	419	420	414	413	405
14 Q	412	415	415	409	410	402	399	406	408	411	411	409	406	394	389	387	393	408	423	434	443	429	424	413	410
15	411	420	421	421	407	393	365	381	407	407	411	406	403	403	384	383	397	406	416	423	425	424	419	411	406
16	411	416	414	410	411	409	411	402	403	401	406	398	394	392	376	374	383	390	398	412	410	423	423	421	404
17	407	413	413	411	412	408	407	411	405	403	402	401	395	385	375	373	372	375	399	425	427	415	425	407	403
18	399	409	405	396	410	405	399	400	409	405	409	393	382	377	359	364	374	390	412	424	410	424	411	415	399
19	420	421	399	389	381	370	355	352	385	405	399	393	378	359	348	354	372	390	395	392	422	428	422	405	389
20	390	386	384	362	329	345	391	398	403	405	401	395	385	375	365	359	366	385	416	421	411	405	416	385	387
21 Q	390	388	386	396	400	405	406	408	408	407	406	402	396	386	371	363	369	385	406	416	419	417	414	411	398
22	410	407	409	410	410	409	411	412	412	423	421	420	420	410	398	388	384	395	410	426	433	434	430	434	413
23	436	443	445	445	450	443	421	421	428	427	421	419	411	394	388	400	410	419	430	436	436	424	422	421	425
24	408	396	411	353	359	386	388	382	369	393	395	395	388	384	379	371	361	377	410	410	420	438	416	412	392
25	415	414	414	412	420	418	412	394	390	406	412	411	405	396	381	380	389	407	414	422	425	423	420	420	408
26 Q	416	415	409	412	416	420	415	415	413	412	414	412	409	399	385	378	374	389	408	423	427	427	424	420	410
27 Q	420	419	419	416	416	415	417	416	416	417	420	422	419	404	390	386	381	386	400	417	425	437	425	421	413
28	421	423	419	420	425	426	424	419	411	411	404	407	402	390	389	386	393	411	420	432	441	435	417	416	414
29	399	400	396	395	403	402	399	402	405	399	384	379	364	349	349	345	356	380	385	415	412	426	416	421	391
30 D	414	413	412	364	391	395	334	374	374	377	364	368	374	347	323	330	348	368	394	434	409	394	384	399	379
31																									
Mean	407	407	404	400	395	395	392	393	396	401	399	395	391	380	369	364	367	379	397	412	421	427	420	412	397

MAGNETIC DECLINATION
 Mean values for periods of sixty minutes, Universal Time

Table 14. Agincourt. (D.) West.

7° + . . . '

April, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	22.1	22.1	21.4	17.3	13.4	15.7	19.4	23.0	23.5	25.0	15.7	14.7	13.4	20.2	20.2	24.9	29.4	32.0	30.6	30.2	23.9	24.5	27.5	24.4	22.2
2 D	23.9	9.7	9.8	12.0	19.0	23.9	19.3	7.9	27.1	22.8	24.4	23.0	15.7	13.9	15.5	20.3	27.1	32.5	32.6	33.5	30.1	29.1	24.9	16.7	21.4
3 D	25.5	17.3	20.1	23.0	20.8	18.8	19.3	21.7	19.8	20.3	22.1	26.8	17.1	12.8	16.1	21.6	27.7	30.9	32.5	31.0	30.2	19.3	25.8	26.1	22.8
4	24.1	17.7	20.8	14.4	4.7	23.8	11.2	17.5	13.1	17.4	19.6	27.2	25.9	24.9	27.4	27.1	27.5	33.8	31.8	31.4	29.2	25.4	19.1	21.7	22.3
5 D	19.9	6.7	16.6	16.1	36.7	10.9	24.0	23.2	18.1	17.7	22.3	30.6	21.4	17.5	20.1	26.1	34.5	36.8	34.5	35.9	31.5	28.0	21.1	29.4	24.1
6	24.0	22.7	18.5	23.5	22.6	7.1	14.3	21.3	21.4	20.3	18.5	19.5	17.2	14.4	14.7	20.9	28.1	32.3	32.9	32.9	29.0	30.3	29.2	28.1	22.7
7	15.6	22.2	22.0	20.3	23.2	25.9	28.2	24.5	23.0	22.0	20.8	22.1	24.5	25.0	18.5	17.2	21.3	26.7	30.9	32.9	32.2	29.2	26.5	24.7	24.2
8	23.2	21.7	22.3	23.9	22.3	22.1	21.8	20.9	19.0	20.2	19.5	17.2	15.9	13.7	16.0	22.5	26.9	29.1	29.5	28.6	28.6	26.9	26.3	24.4	22.6
9	23.6	23.2	22.8	22.3	22.3	21.8	23.2	20.8	19.2	21.8	22.1	20.5	21.0	18.7	24.2	28.4	28.7	28.3	29.1	27.8	27.5	25.6	23.6	22.6	23.7
10	21.8	19.6	20.1	20.4	15.9	19.2	20.2	21.1	20.2	20.2	19.3	17.2	15.2	16.0	17.9	21.8	26.4	28.9	30.9	30.6	29.4	27.7	25.0	22.8	22.0
11 Q	23.5	22.8	22.4	20.5	21.8	21.4	21.0	20.1	19.8	19.8	19.5	18.4	18.3	19.2	20.8	22.6	26.5	28.6	30.2	30.4	31.4	29.3	27.0	25.0	23.3
12	23.4	20.5	18.8	19.3	19.6	19.6	14.7	18.8	17.4	18.8	18.3	21.4	20.9	15.6	16.9	19.2	23.3	26.6	29.2	31.0	28.8	25.6	24.2	24.4	21.4
13	21.9	19.7	10.9	16.9	18.5	20.1	20.5	21.9	21.6	21.1	19.6	21.1	20.5	18.2	17.0	20.6	24.3	26.9	27.8	28.3	27.9	26.2	24.2	22.5	21.6
14 Q	22.4	21.6	21.7	20.6	20.0	18.9	19.0	20.1	20.9	22.4	19.3	17.8	14.6	13.6	17.0	21.9	27.1	30.6	31.8	30.5	29.6	28.7	27.0	26.4	22.6
15	21.5	23.6	22.7	21.5	14.9	13.4	20.8	21.8	16.4	18.3	15.9	14.3	18.5	18.3	16.8	22.2	27.0	29.1	30.6	30.6	29.5	27.2	25.8	25.2	21.9
16	24.7	23.3	22.6	22.1	22.4	21.7	20.6	20.7	20.0	18.9	18.7	17.0	16.0	16.5	17.4	23.5	26.5	29.1	31.8	30.9	29.4	27.2	25.3	24.2	22.9
17	23.6	22.4	22.3	23.4	20.9	22.9	21.5	21.6	21.3	20.3	19.7	18.9	16.3	16.3	19.4	23.4	25.1	29.7	32.5	32.8	30.6	27.6	25.2	22.7	23.4
18	24.1	22.9	21.3	22.7	20.4	21.5	22.0	23.5	22.8	20.4	19.2	17.2	15.9	16.8	19.2	27.2	30.1	30.9	30.6	30.7	30.1	26.5	24.2	22.3	23.5
19	21.7	19.2	19.4	16.4	14.4	15.3	10.9	20.7	23.5	18.4	17.2	15.4	13.1	15.4	21.4	29.8	30.2	30.5	33.1	31.6	24.3	21.9	22.5	25.3	21.4
20	22.3	19.8	17.2	17.6	16.5	13.1	16.8	21.6	21.5	21.5	20.1	17.7	15.5	15.6	17.8	22.8	28.0	30.7	29.8	33.2	34.2	29.9	27.0	22.7	22.2
21 Q	20.8	21.8	21.4	23.3	23.4	23.3	22.4	22.8	22.6	22.3	21.9	19.1	16.7	16.8	19.9	24.5	28.5	30.5	30.5	29.0	26.9	24.2	22.5	21.9	23.2
22	22.8	23.0	22.3	21.8	22.3	22.6	22.1	21.7	20.8	18.6	17.2	13.5	14.0	13.6	16.2	19.9	25.0	27.9	29.7	28.8	27.0	25.0	24.1	23.5	21.8
23	23.8	23.6	22.7	22.6	20.9	20.0	20.9	16.6	17.8	18.2	21.8	17.2	14.6	13.5	22.0	23.3	26.4	28.6	26.6	27.8	26.9	25.6	23.0	21.1	21.9
24	8.0	0.7	4.3	17.4	16.4	16.4	12.3	19.1	26.9	23.4	17.3	15.1	16.4	18.2	21.0	25.1	28.4	29.7	28.9	28.1	27.3	25.3	23.8	22.1	19.6
25	21.6	22.6	21.6	20.8	21.1	19.8	26.4	20.5	24.4	22.8	18.2	15.4	14.2	15.6	19.8	24.6	28.6	31.4	31.2	31.7	30.4	27.1	24.4	22.3	23.2
26 Q	22.9	21.5	22.6	21.7	17.8	23.4	22.0	20.9	20.5	20.8	18.9	16.8	16.4	14.5	16.5	21.5	27.1	30.4	31.1	30.7	29.2	27.6	24.8	22.9	22.6
27 Q	22.8	22.7	22.2	22.5	21.8	21.7	21.6	20.7	20.1	19.9	18.3	15.7	13.4	13.5	15.7	20.2	25.4	29.6	31.7	32.5	31.1	28.4	27.3	25.6	22.6
28	24.2	23.2	23.9	22.7	23.7	23.5	22.9	20.7	24.5	20.6	19.2	20.9	17.3	20.3	27.0	30.2	30.8	34.1	33.6	32.7	28.2	24.6	26.3	23.7	24.9
29	17.6	20.6	21.9	22.2	23.6	22.7	21.7	21.4	21.1	21.6	19.2	20.9	22.2	26.4	32.1	33.7	34.6	36.4	31.8	28.3	27.4	26.3	25.9	25.0	
30 D	24.0	25.5	25.7	7.6	17.3	20.6	26.1	11.3	12.7	22.9	23.1	16.6	15.8	18.6	29.0	31.9	32.9	29.7	26.9	24.6	22.2	21.8	22.7	21.8	23.1
31																									
Mean	22.1	20.1	20.1	19.9	20.0	19.7	20.3	20.3	20.6	20.6	19.6	18.9	17.3	17.0	19.6	23.9	27.7	30.4	31.0	30.7	28.8	26.4	24.9	23.7	22.6

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
 Mean values for periods of sixty minutes, Universal Time

Table 15. Agincourt. (Z.)

56,000 γ +

April, 1950.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 D	273	284	286	230	180	221	236	221	179	179	196	238	236	233	236	230	235	240	248	267	337	313	298	284	245
2 D	283	260	245	250	230	180	106	124	202	230	245	260	259	246	246	247	250	263	277	279	285	310	325	307	246
3 D	301	295	261	230	253	243	245	236	236	249	237	224	246	248	244	247	260	269	281	303	337	360	299	299	267
4	286	261	266	242	224	166	148	148	119	202	227	207	198	204	215	226	248	254	268	268	274	278	281	269	228
5 D	272	251	248	219	112	220	230	236	174	176	188	174	199	213	236	245	260	266	319	336	334	395	425	423	256
6	363	279	286	269	256	209	230	263	265	265	256	254	255	260	256	259	263	272	283	299	313	308	328	357	277
7	276	274	289	273	262	238	221	235	253	256	255	245	236	242	246	250	259	265	268	272	281	278	267	262	258
8	260	260	262	256	255	254	250	236	233	253	257	261	260	256	258	262	260	262	265	268	267	266	262	259	258
9	255	254	252	253	253	250	243	242	242	243	236	234	238	240	242	244	244	248	253	258	260	265	266	265	249
10	261	261	265	222	215	243	252	252	251	250	250	250	249	246	245	239	242	242	248	256	256	258	256	256	249
11 Q	249	248	249	248	251	250	248	248	248	246	247	246	248	246	240	236	232	230	232	238	249	260	265	254	246
12	250	256	260	250	253	220	168	180	243	248	246	235	231	239	242	239	239	239	238	242	245	252	256	259	239
13	256	248	228	222	236	242	245	247	243	243	243	243	240	241	245	248	251	255	256	251	248	246	248	249	245
14 Q	248	247	248	245	245	242	243	245	243	243	245	246	248	242	236	239	237	237	242	245	252	255	263	266	246
15	256	248	245	243	222	214	156	156	238	249	248	240	235	227	227	220	215	225	238	248	250	256	257	256	232
16	250	248	243	242	242	244	243	239	239	248	251	245	242	242	242	245	245	245	249	258	256	260	259	263	248
17	266	255	254	251	248	245	245	245	243	243	243	239	238	232	231	231	233	240	253	273	284	280	279	279	251
18	269	262	262	261	245	228	242	236	222	230	246	243	243	243	242	246	243	248	259	269	263	269	261	261	250
19	255	249	251	253	245	222	183	207	225	248	255	254	248	242	245	250	250	251	267	280	299	303	295	303	253
20	316	304	283	260	138	165	259	268	261	255	257	256	255	250	248	242	239	242	258	272	272	271	277	271	255
21 Q	262	259	256	251	249	248	248	248	248	250	250	248	248	246	242	240	243	248	255	260	258	253	251	249	250
22	248	248	248	245	246	245	248	245	247	246	242	236	239	233	230	226	230	230	234	238	239	239	241	242	240
23	241	242	240	239	239	236	238	236	242	239	232	229	224	227	236	230	230	226	236	243	248	254	263	262	239
24	268	230	186	182	60	124	212	230	205	215	230	232	239	238	236	239	238	249	254	254	251	254	256	261	223
25	254	249	248	244	233	189	177	190	209	222	239	243	243	243	245	242	242	243	245	243	242	243	245	249	234
26 Q	246	248	248	243	238	230	219	225	233	239	243	242	243	243	243	243	242	237	231	236	242	247	248	245	240
27 Q	242	242	242	242	242	242	241	239	240	242	242	242	243	240	240	242	239	243	245	248	250	261	259	262	245
28	255	249	248	244	238	230	236	238	225	209	226	207	214	220	224	226	236	250	260	289	301	308	307	306	248
29	279	262	262	261	256	252	253	251	251	248	228	213	208	209	225	233	248	259	280	309	315	309	295	289	258
30 D	283	278	284	230	249	258	151	171	180	181	153	201	203	207	213	232	254	280	320	356	343	295	265	255	243
31																									
Mean	267	258	255	243	227	225	221	225	228	235	237	236	237	237	239	240	244	249	259	269	275	278	277	275	247

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 16. Agincourt.

April, 1950.

Day	Horizontal Intensity						Declination						Vertical Intensity							
	Maximum			Minimum			Maximum			Minimum			Maximum			Minimum				
	15,000 γ +			15,000 γ +			7° West +			7° West +			56,000 γ +			56,000 γ +				
	h.	m.	γ	h.	m.	γ	h.	m.	'	h.	m.	'	h.	m.	γ	h.	m.	γ		
1 D	21	25	471	13	14	340	17	17	33.7	4	8	-1.6	35.3	20	58	354	3	55	141	213
2 D	21	47	454	7	11	262	5	53	35.5	6	20	-4.7	40.2	22	38	342	6	28	141	201
3 D	21	22	505	15	32	318	20	17	33.9	13	35	11.2	22.7	21	21	398	3	13	205	193
4	22	0	416	8	23	260	5	28	37.2	4	27	-5.3	42.5	0	4	310	8	20	73	237
5 D	21	31	572	4	39	265	4	35	48.4	1	13	-1.3	49.7	23	15	454	4	33	149	305
6	21	58	453	16	20	319	17	40	34.9	5	44	4.3	30.6	23	53	437	6	7	183	254
7	23	59	417	16	33	335	19	41	33.4	0	13	6.7	26.7	0	1	317	6	37	215	102
8	0	25	421	16	30	345	17	43	30.3	13	38	12.5	17.8	19	52	271	8	11	225	46
9	22	3	416	13	58	359	15	52	30.1	13	0	16.4	13.7	21	58	267	11	25	231	36
10	21	47	433	15	33	358	18	20	31.4	3	35	13.2	18.2	2	30	266	3	58	179	87
11 Q	22	11	436	15	30	373	20	10	33.9	11	47	17.8	16.1	21	10	271	18	5	227	44
12	1	2	433	15	52	359	19	15	32.4	6	29	4.3	28.1	2	4	265	7	0	108	157
13	19	4	425	15	18	368	19	25	29.2	2	48	-2.4	31.6	1	28	256	3	0	204	52
14 Q	20	50	453	15	37	385	18	32	31.9	13	40	12.9	19.0	22	51	267	15	58	232	35
15	21	5	434	7	3	305	6	58	43.4	5	22	8.8	34.6	0	2	266	7	3	53	213
16	23	30	435	15	0	366	18	57	33.3	12	0	15.2	18.1	23	58	266	14	17	238	28
17	20	5	441	15	58	366	19	25	33.8	13	44	15.1	18.7	20	25	285	15	57	229	56
18	21	20	450	14	50	349	18	0	33.0	12	55	15.2	17.8	21	22	275	8	13	219	56
19	20	48	441	7	0	326	18	17	33.7	6	42	9.1	24.6	23	59	320	6	58	157	163
20	22	22	431	4	18	295	20	13	36.5	4	0	2.6	33.9	0	3	320	4	52	101	219
21 Q	19	52	420	15	33	359	17	40	30.8	12	49	15.4	15.4	0	15	266	16	0	239	27
22	23	48	436	16	29	381	18	18	30.1	11	38	12.6	17.5	9	12	251	15	5	226	25
23	5	20	458	13	56	366	19	36	30.7	13	40	11.4	19.3	22	20	266	12	5	216	50
24	21	50	505	3	58	251	5	0	41.4	4	22	-10.9	52.3	0	38	298	4	50	-36	334
25	4	57	438	15	10	369	18	58	32.2	12	48	13.1	19.1	0	15	255	6	35	171	84
26 Q	21	13	433	16	22	373	17	54	32.0	13	29	14.4	17.6	1	33	249	6	27	215	34
27 Q	21	40	500	16	28	379	19	8	32.7	13	12	12.6	20.1	23	30	262	6	30	238	24
28	20	47	456	15	20	374	17	33	35.3	10	17	15.5	19.8	23	54	320	11	25	199	121
29	21	0	440	14	5	329	18	42	38.0	0	6	13.6	24.4	20	58	318	12	35	200	118
30 D	19	6	440	6	7	249	6	7	43.9	3	40	1.4	42.5	19	48	360	6	8	90	270
31																				
Mean			449			336			34.6			8.3	26.3			302			176	126
No. days			30			30			30			30	30			30			30	30

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
 Mean values for periods of sixty minutes, Universal Time

Table 17. Agincourt. (H.)

15,000 γ +

May, 1950.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	410	407	404	405	404	405	405	405	406	407	407	403	395	389	376	374	389	404	422	426	427	419	412	421	405
2	419	419	413	411	417	412	414	409	414	417	422	417	399	371	359	332	338	370	402	404	419	457	505	472	409
3 D	391	391	364	330	354	363	361	385	379	364	380	390	379	359	355	349	358	379	391	407	445	483	426	430	384
4	390	391	389	390	389	394	389	394	408	401	394	396	389	380	373	340	357	399	435	438	441	486	499	451	405
5	399	390	396	402	409	399	400	390	383	383	386	378	375	378	374	372	377	388	407	424	444	461	438	418	399
6	405	400	409	407	396	401	407	407	405	396	397	394	398	393	367	372	385	396	416	430	445	448	440	425	406
7	406	399	399	403	404	399	397	400	409	409	408	395	383	385	384	376	386	394	408	420	427	420	417	416	402
8 Q	407	409	411	405	405	407	409	405	405	401	403	395	391	386	374	369	385	403	422	427	424	424	421	422	405
9 Q	417	420	416	412	407	405	409	407	404	407	406	403	394	383	371	366	385	405	422	427	431	430	425	427	407
10	424	420	414	419	417	415	411	410	414	407	402	399	392	378	361	360	372	393	408	421	428	441	466	450	409
11	366	370	409	410	412	416	415	416	405	391	394	397	389	388	373	370	368	379	395	416	424	424	424	421	399
12 Q	419	415	414	416	412	407	412	412	417	419	425	426	419	405	390	376	388	409	432	437	438	435	436	433	416
13	430	430	424	414	412	402	383	385	390	394	390	402	394	378	367	379	394	409	430	434	452	453	439	430	409
14	409	409	411	407	419	425	410	405	408	407	401	389	394	405	386	375	377	383	396	416	420	431	436	410	405
15 D	399	415	401	395	384	409	420	410	400	402	394	392	391	383	367	374	385	403	430	464	450	417	437	402	405
16	402	407	414	400	393	385	387	385	394	393	397	393	385	378	365	365	380	405	419	424	433	425	417	415	398
17	407	414	410	409	411	414	419	420	416	407	405	402	394	383	375	379	399	416	420	421	433	436	442	434	411
18 Q	431	421	415	412	415	417	419	418	419	419	416	416	411	402	386	383	395	409	417	428	431	431	429	425	415
19 Q	425	420	422	424	421	421	420	420	419	416	415	409	399	385	371	375	390	412	425	431	426	427	426	426	414
20	428	431	430	425	425	423	427	428	430	429	425	423	421	410	398	404	409	448	447	443	443	457	451	436	429
21	422	397	400	409	414	419	417	422	425	425	420	415	414	408	395	394	422	450	451	440	439	438	438	437	421
22	435	433	434	435	435	436	435	442	436	437	423	421	423	446	418	410	415	425	440	446	455	464	476	453	436
23 D	444	422	422	427	426	432	422	405	427	417	389	357	363	343	327	324	355	383	435	477	481	497	438	441	411
24	410	396	402	417	397	390	394	405	409	405	402	399	389	381	376	377	389	404	412	424	430	431	427	418	403
25	420	419	412	415	414	415	417	420	416	409	407	412	417	399	386	374	384	410	416	420	430	433	433	433	413
26	425	425	436	445	427	424	422	427	410	397	414	414	402	389	364	372	386	400	427	448	433	417	421	420	414
27 D	425	420	410	400	399	395	399	393	394	409	415	410	402	358	343	374	394	431	474	492	549	643	618	420	432
28 D	426	376	290	381	301	257	160	249	291	260	333	345	330	342	358	347	352	389	415	435	478	460	435	406	351
29	405	418	435	424	412	404	407	411	405	390	388	385	378	361	383	374	361	368	368	393	405	430	416	430	399
30	435	451	374	368	371	390	402	407	401	394	406	409	409	399	357	353	383	412	425	421	425	430	430	419	403
31	414	410	415	416	412	410	407	407	409	410	411	409	399	391	384	370	381	399	410	420	427	438	436	445	410
Mean	414	411	406	408	404	403	400	403	405	401	402	400	394	385	373	370	382	402	420	431	440	448	444	429	407

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
 Mean values for periods of sixty minutes, Universal Time

Table 19. Agincourt. (Z.)

56,000 γ +

May, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1	257	256	254	250	250	250	249	249	249	249	250	250	248	245	242	240	245	245	245	251	257	264	256	252	250	
2	252	253	254	252	245	243	244	244	245	248	248	248	243	242	242	242	258	273	286	304	315	333	369	378	269	
3 D	357	295	242	180	236	232	183	248	254	236	248	258	261	259	258	253	248	248	267	291	334	330	298	324	264	
4	289	273	260	250	242	236	225	215	221	219	216	233	243	249	248	242	257	259	272	302	306	338	363	347	263	
5	272	267	255	248	236	245	247	251	226	214	213	238	248	248	248	255	263	269	273	274	284	307	289	280	256	
6	273	267	253	243	250	250	248	230	226	230	231	227	235	239	236	243	239	244	254	266	278	284	291	289	251	
7	273	260	255	253	248	243	238	213	229	242	248	248	243	242	239	238	243	242	241	249	256	255	259	266	247	
8 Q	262	253	251	249	239	236	242	230	232	246	248	245	245	242	242	238	242	242	241	245	250	256	260	260	246	
9 Q	254	250	248	249	248	248	248	246	245	248	249	248	245	242	238	230	229	236	243	243	246	249	253	253	245	
10	254	254	256	253	249	248	248	245	230	233	248	245	242	242	238	234	238	243	245	250	249	255	276	297	249	
11	290	280	284	267	257	250	243	227	215	218	219	221	225	226	221	230	230	230	243	259	261	266	262	259	245	
12 Q	257	251	248	248	243	246	248	248	248	249	251	248	245	243	243	242	238	245	252	255	255	255	250	245	248	
13	242	242	245	245	248	215	177	210	221	227	236	238	239	236	237	236	239	241	242	259	272	284	289	289	242	
14	283	274	254	255	248	236	236	237	245	247	243	238	214	216	226	230	232	239	255	278	283	281	275	281	250	
15 D	266	254	244	227	201	201	230	237	207	218	223	233	242	242	242	243	236	239	261	305	310	289	295	278	247	
16	266	259	246	242	220	225	230	204	220	248	255	252	249	245	242	242	249	249	250	260	275	284	281	286	249	
17	272	260	259	253	249	245	242	231	225	236	239	243	242	238	238	235	231	237	237	239	249	257	259	259	245	
18	262	245	248	248	245	243	243	243	243	244	245	246	244	243	242	240	242	236	236	243	245	245	247	242	244	
19 Q	239	238	238	238	237	237	238	238	238	239	242	242	242	240	237	230	231	226	224	225	221	230	235	239	235	
20 Q	236	237	237	237	236	236	236	236	236	236	236	236	236	236	232	230	226	225	224	220	225	233	242	254	260	235
21	273	275	247	230	242	240	239	238	237	236	233	237	237	231	230	230	227	222	224	233	238	243	245	242	239	
22	239	236	235	236	233	233	233	233	232	236	233	216	197	197	207	219	221	224	231	230	239	243	256	255	230	
23 D	253	249	243	239	230	201	200	197	206	168	148	179	195	197	206	202	220	230	326	319	316	314	286	274	233	
24	266	254	242	213	227	227	218	222	237	248	248	242	243	242	239	238	236	236	242	255	258	266	261	256	242	
25	253	248	245	242	242	242	239	236	234	238	238	236	230	230	233	225	232	242	239	239	248	253	255	261	241	
26	260	250	230	189	186	224	236	222	201	156	203	219	224	230	231	236	242	242	246	260	260	254	253	248	229	
27 D	248	250	250	251	245	248	248	243	225	243	251	249	242	232	238	232	239	249	256	272	354	492	367	325	269	
28 D	348	242	239	320	321	242	131	180	208	220	245	255	248	252	260	268	268	269	285	302	337	308	289	275	263	
29	267	266	280	295	269	261	260	255	250	242	226	232	243	242	236	243	255	260	265	267	271	284	284	289	260	
30	272	272	253	219	224	227	208	231	231	227	238	248	249	243	242	248	248	250	256	266	271	269	265	262	247	
31	261	253	250	246	243	243	243	245	248	253	253	253	250	245	239	240	242	239	238	239	245	255	266	266	248	
Mean	268	257	250	244	242	237	231	232	231	232	236	239	238	237	237	240	243	252	262	271	280	277	275	248		

AGINCOURT MAGNETIC OBSERVATORY, 1950-1951

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 20. Agincourt.

May, 1950.

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 15,000 γ +			Minimum 15,000 γ +			Range	Maximum 7° West +			Minimum 7° West +			Range	Maximum 56,000 γ +			Minimum 56,000 γ +			Range
	h.	m.	γ	h.	m.	γ		h.	m.	'	h.	m.	'		h.	m.	γ	h.	m.	γ	
1	20	8	434	15	0	368	66	17	10	33.2	12	37	14.3	18.9	21	19	266	14	58	237	29
2	22	24	542	16	8	321	221	17	30	35.0	22	42	3.5	31.5	22	31	427	15	15	235	192
3 D	21	15	533	3	55	288	245	6	28	38.3	2	16	-0.3	38.6	0	13	391	6	25	115	276
4	22	12	525	15	53	325	200	21	55	34.6	23	59	10.4	24.2	22	3	381	10	34	209	172
5	21	45	467	14	38	364	103	8	58	22.9	0	55	11.1	11.8	0	1	373	10	7	204	169
6	21	2	451	14	55	353	98	20	0	29.8	14	28	14.6	15.2	23	18	298	7	50	216	82
7	20	23	433	15	25	373	60	7	25	33.8	0	34	7.6	26.2	0	12	283	7	23	203	80
8 Q	18	18	433	14	56	366	67	17	43	30.9	12	30	13.1	17.8	0	8	267	8	3	221	46
9 Q	20	16	436	15	11	363	73	18	15	33.0	12	28	14.9	18.1	0	1	255	16	25	227	28
10	22	43	487	14	42	355	132	17	54	35.5	23	9	10.1	25.4	23	59	307	8	45	215	92
11	21	6	447	15	50	360	87	17	18	32.1	11	29	10.3	21.8	0	1	306	8	50	207	99
12 Q	20	37	447	15	38	369	78	17	43	31.2	12	30	12.9	18.3	0	4	259	15	39	237	22
13	21	0	474	14	15	364	110	18	16	32.3	11	17	7.7	24.6	23	2	292	5	50	149	143
14	20	49	447	16	0	366	81	18	0	31.5	2	13	9.7	21.8	23	23	286	12	50	199	87
15 D	19	11	478	14	50	355	123	8	45	33.1	11	15	9.8	23.3	20	30	319	5	23	180	139
16	21	3	440	15	33	358	82	7	15	34.8	12	45	11.1	23.7	23	38	297	7	23	196	101
17	21	50	450	15	14	371	79	18	25	32.0	13	2	12.2	19.8	0	1	278	8	15	218	60
18 Q	20	15	436	15	23	379	57	18	21	30.0	1	13	9.1	20.9	1	5	278	18	10	233	45
19 Q	19	22	444	15	10	368	76	17	32	33.0	12	53	12.0	21.0	12	10	242	20	16	220	22
20	21	50	474	14	40	390	84	19	55	30.3	12	17	10.7	19.6	23	4	262	17	45	218	44
21	18	25	464	15	30	384	80	16	9	29.5	2	51	9.4	20.1	0	52	289	17	22	220	69
22	22	46	505	12	24	390	115	18	25	33.4	14	56	14.9	18.5	22	48	267	12	50	183	84
23 D	21	35	536	15	6	295	241	16	13	37.7	5	4	6.4	31.3	21	33	336	10	7	130	206
24	3	22	448	15	0	373	75	3	30	42.8	0	23	10.9	31.9	0	5	299	3	27	176	123
25	23	15	453	15	58	358	95	18	2	26.5	12	19	12.9	13.6	23	15	262	15	50	220	42
26	20	5	464	15	0	343	121	9	7	34.7	12	4	9.7	25.0	20	6	266	9	21	114	152
27 D	21	50	690	14	10	312	378	17	39	40.4	22	1	35.0	75.4	21	46	634	8	33	209	425
28 D	4	26	548	9	0	-95	643	5	55	128.8	1	26	6.4	122.4	3	28	387	5	12	62	325
29	1	47	451	13	24	342	109	18	20	30.2	11	55	9.3	20.9	3	38	309	11	12	215	94
30	0	40	464	15	13	342	122	5	50	35.5	3	38	10.4	25.1	0	5	295	6	7	189	106
31	23	31	448	15	35	368	80	18	10	31.0	12	32	14.9	16.1	22	15	271	19	9	236	35
Mean			476			341	135			36.1			8.9	27.2			312			196	116
No. days			31			31	31			31			31	31			31			31	31

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 21. Agincourt. (H.)

15,000 γ +

June, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	441	425	420	417	404	401	409	409	400	405	409	411	404	393	375	373	416	421	425	430	441	433	438	445	414
2	430	419	406	393	384	386	402	405	405	399	406	405	399	392	386	371	364	369	394	425	432	443	435	429	403
3	421	425	422	414	409	416	419	419	420	416	405	395	390	405	377	363	377	395	399	407	420	430	431	425	408
4	425	416	406	395	395	411	420	424	419	416	416	412	404	390	378	373	385	407	430	435	436	430	430	435	412
5	426	419	424	430	425	405	400	399	405	409	410	407	410	405	394	395	400	399	410	422	427	422	426	438	413
6 D	444	426	415	395	426	394	374	384	368	368	386	382	368	370	399	343	395	421	435	451	441	445	441	433	404
7 Q	420	412	412	412	412	412	416	419	418	420	420	417	412	413	405	400	405	415	425	435	440	424	427	424	417
8	426	424	425	425	424	424	425	420	419	416	424	420	409	400	394	399	405	410	431	444	471	490	479	472	428
9 D	421	412	415	405	385	378	402	404	394	397	373	383	387	415	399	389	383	386	402	431	430	453	458	438	406
10	416	415	386	366	379	396	402	402	407	406	393	391	393	389	378	368	383	409	436	441	440	447	433	410	404
11	416	417	406	409	414	414	419	412	408	409	410	416	419	416	403	400	397	409	426	442	447	447	435	439	418
12	426	419	421	421	419	418	421	416	404	405	411	400	407	404	393	378	377	390	419	436	436	433	420	428	413
13 Q	424	430	425	421	421	416	416	422	412	412	414	412	409	396	386	391	397	406	416	424	430	437	438	435	416
14	436	431	433	426	425	433	436	431	434	434	436	426	420	409	399	398	400	407	414	422	436	439	440	437	425
15 Q	438	430	427	428	427	430	431	430	430	430	436	431	418	410	400	389	393	410	430	446	450	444	440	440	427
16	434	434	431	430	428	427	427	430	431	432	435	433	424	416	411	414	426	457	483	472	474	456	446	440	437
17	438	436	438	431	420	393	419	428	420	429	427	424	411	401	386	384	407	412	453	451	441	435	439	422	423
18	419	422	431	426	434	431	426	420	419	427	420	417	404	395	394	408	432	441	445	451	442	431	426	423	424
19 Q	425	431	426	424	420	416	420	419	420	421	422	425	424	422	415	403	401	422	429	439	447	441	435	433	424
20 Q	431	437	431	433	431	430	433	432	430	427	431	430	422	413	399	400	427	445	455	459	458	450	443	435	433
21	433	431	433	431	430	422	430	431	433	438	437	430	419	412	404	394	396	404	435	450	457	448	448	426	428
22	427	432	433	430	427	445	438	435	436	425	419	435	427	418	389	394	408	417	436	434	443	451	447	449	429
23	428	438	435	430	421	424	427	424	425	423	420	425	420	405	387	374	373	394	460	511	506	562	568	506	441
24 D	487	448	417	397	390	357	321	369	316	381	368	321	345	368	382	368	370	389	412	430	450	436	435	431	391
25	416	402	407	409	409	415	412	409	393	370	373	376	376	390	405	395	389	394	403	425	435	440	427	442	405
26	446	409	391	400	405	414	416	407	404	401	394	388	391	406	399	395	399	404	412	424	433	429	423	421	409
27	425	424	423	424	422	422	421	420	418	421	419	417	411	399	393	399	414	411	415	427	435	435	426	431	419
28	426	422	427	421	416	411	416	416	419	419	426	431	421	408	396	389	390	403	421	426	438	434	431	430	418
29 D	431	435	434	431	430	424	424	424	427	424	436	439	430	425	376	374	372	369	460	533	555	570	615	649	454
30 D	491	433	407	225	90	361	388	389	388	389	384	373	374	363	356	348	377	414	421	417	429	412	438	424	379
31																									
Mean	432	425	420	409	404	411	414	415	411	412	412	409	405	402	392	386	395	408	428	441	447	448	447	443	417

MAGNETIC DECLINATION
 Mean values for periods of sixty minutes, Universal Time

Table 22. Agincourt. (D.) West.

7° + . . . '

June, 1950.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	23.1	24.6	21.4	15.9	18.8	23.1	20.7	21.6	21.3	19.5	17.1	16.4	15.9	16.2	19.9	25.5	32.1	34.2	32.4	30.6	30.0	28.9	26.0	23.5	23.3
2	24.6	23.0	19.2	20.0	14.8	23.3	22.2	21.2	20.9	18.9	17.2	14.6	12.9	14.0	16.6	20.4	24.3	28.2	32.1	29.1	27.0	25.7	23.4	23.8	21.6
3	24.8	23.1	23.1	20.2	22.0	23.0	21.9	20.9	20.3	19.7	20.3	18.2	22.5	14.9	16.0	16.9	24.1	28.8	28.6	30.2	27.9	26.5	23.8	22.4	22.5
4	20.9	20.3	17.7	15.0	14.9	19.7	21.4	24.8	21.9	20.4	18.7	16.8	15.7	14.9	16.6	22.0	24.0	26.3	26.4	27.0	26.2	25.8	24.2	22.2	20.9
5	21.6	17.3	22.4	22.0	19.8	18.6	15.9	19.7	20.4	24.3	18.3	14.2	13.1	15.4	17.9	21.3	24.0	26.4	29.4	31.0	30.4	28.0	25.2	23.3	21.7
6 D	20.9	16.1	16.4	16.4	0.9	23.0	9.3	13.3	21.4	21.9	16.4	8.8	8.5	13.3	19.1	17.3	31.2	30.0	31.1	29.0	27.0	23.4	22.0	22.8	19.1
7 Q	24.0	25.1	23.6	22.2	21.3	21.3	22.2	21.4	19.9	18.6	17.9	17.5	16.4	16.9	19.1	20.9	22.0	24.0	26.6	27.0	26.5	25.1	23.7	23.0	22.0
8	23.1	23.3	24.1	23.3	22.7	22.0	21.2	21.2	20.3	20.1	16.9	14.8	13.3	14.2	17.4	23.3	26.6	28.9	30.6	31.1	28.6	25.0	25.1	24.9	22.6
9 D	21.7	20.9	10.6	22.5	10.4	25.5	20.0	21.5	18.9	16.0	18.6	13.7	13.9	15.9	16.6	20.2	24.9	32.1	35.1	30.5	28.1	24.2	19.3	19.7	20.9
10	22.0	18.3	18.1	15.3	16.3	20.8	24.4	28.4	24.8	20.2	17.6	19.7	13.9	16.0	15.0	22.3	25.9	30.4	29.6	28.4	26.4	22.5	22.2	23.5	21.8
11	22.8	19.4	22.1	23.4	23.9	24.9	25.7	24.0	24.0	20.8	20.0	17.2	14.9	16.4	18.4	20.7	24.0	28.2	30.1	27.5	25.1	23.9	24.3	22.7	22.7
12	22.3	22.8	23.0	23.7	23.0	23.1	22.8	21.4	19.3	20.5	16.0	14.9	15.0	14.7	15.7	19.9	25.7	31.0	31.1	30.4	27.4	25.2	24.9	23.0	22.4
13 Q	22.4	22.8	22.7	22.3	23.0	22.5	22.8	22.5	20.6	21.2	18.4	15.4	14.0	14.6	16.6	21.9	25.7	27.1	27.5	27.5	27.0	25.7	23.9	22.2	22.1
14	21.6	20.0	21.1	20.7	19.4	18.5	21.8	19.9	20.8	19.6	16.2	13.6	11.6	13.1	15.7	19.6	24.2	27.6	29.3	28.3	26.6	24.1	22.0	22.0	21.0
15 Q	20.6	21.4	22.0	22.7	23.0	22.7	22.4	22.0	22.0	21.1	17.5	14.5	12.9	14.4	16.0	20.4	25.7	30.0	31.9	30.0	27.5	24.6	22.4	21.1	22.0
16	21.6	22.5	22.8	22.4	22.2	22.0	22.0	21.2	20.6	19.3	16.7	15.3	12.9	14.8	16.7	20.9	25.0	29.7	30.5	28.5	25.8	23.7	21.3	20.4	21.6
17	21.4	20.0	18.5	18.6	15.8	15.8	19.7	21.8	18.6	17.4	15.8	13.6	12.2	13.9	18.8	24.3	28.0	32.5	32.1	29.3	28.0	24.0	21.2	21.5	20.9
18	22.8	23.0	22.1	21.6	22.9	23.9	23.4	23.0	26.0	22.0	15.2	12.2	14.2	16.8	21.1	24.0	28.6	30.2	28.1	25.5	23.2	22.2	21.4	21.9	22.3
19 Q	22.8	22.0	21.5	20.6	20.6	21.5	21.9	21.6	20.9	19.5	17.4	15.6	14.8	16.4	17.3	19.7	22.6	25.1	26.6	27.1	25.7	24.4	23.0	22.8	21.3
20 Q	22.8	22.0	22.0	21.7	21.2	19.8	21.6	21.9	21.9	20.2	16.6	15.7	15.3	15.3	15.7	20.0	25.3	27.6	28.4	27.6	26.0	24.8	21.4	20.6	21.5
21	20.5	20.4	21.2	20.6	19.3	18.5	22.0	22.0	21.3	20.2	15.9	14.9	14.8	12.8	14.9	17.9	21.0	27.0	28.8	25.8	23.8	22.7	21.3	20.9	20.4
22	20.9	21.3	21.6	15.9	18.8	20.9	19.6	19.5	19.1	18.2	16.4	14.6	13.3	13.0	13.3	24.9	27.0	28.1	29.3	31.6	29.8	26.6	23.6	22.1	21.2
23	22.1	21.2	18.3	15.1	18.5	20.2	21.3	20.5	20.9	20.2	16.8	12.8	11.6	11.4	14.1	18.9	26.0	31.1	32.3	31.6	34.0	25.5	21.3	24.2	21.2
24 D	24.3	25.1	24.3	23.3	22.2	11.9	9.8	17.7	23.4	23.2	15.8	16.5	16.5	11.9	15.9	20.5	24.1	25.6	27.1	28.1	27.6	26.8	24.4	22.1	21.1
25	18.7	17.4	22.0	19.7	21.0	23.2	24.0	21.7	24.4	18.3	19.5	20.8	15.3	15.6	17.6	19.8	25.2	28.9	29.6	28.7	25.6	24.0	23.8	22.9	22.0
26	21.0	17.0	15.0	20.1	20.4	22.3	21.0	22.5	22.5	20.5	18.3	19.4	18.3	13.5	17.6	23.2	27.1	30.1	29.9	28.1	26.5	24.0	22.7	22.8	21.9
27	22.0	22.7	23.1	23.1	23.1	22.9	22.2	21.8	20.8	18.6	16.4	14.4	13.5	13.8	16.3	22.3	26.8	29.5	33.2	32.2	29.2	25.6	23.5	22.4	22.5
28	21.8	22.6	22.9	22.2	21.9	23.0	21.8	20.0	19.2	17.4	15.0	12.8	12.7	13.8	16.6	22.3	27.4	30.1	31.3	31.3	29.9	28.1	24.9	22.9	22.1
29 D	22.6	22.1	22.1	22.7	21.8	21.8	20.2	20.2	19.2	15.9	11.8	8.6	7.4	8.4	13.1	20.4	19.8	21.3	30.1	26.4	26.9	22.0	17.6	17.6	19.1
30 D	18.9	14.4	19.0	9.2	40.3	17.1	22.2	19.9	21.2	22.9	16.7	12.9	13.1	12.1	16.0	24.1	26.2	24.0	27.3	29.9	28.5	29.4	27.1	25.4	21.6
31																									
Mean	22.0	21.0	20.9	20.1	20.2	21.3	21.0	21.4	21.3	20.0	17.1	15.0	14.1	14.4	16.8	21.2	25.6	28.6	30.0	29.1	27.5	25.2	23.1	22.4	21.6

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes, Universal Time

Table 23. Agincourt. (Z.)

56,000 γ +

June, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	269	275	273	258	250	246	240	230	242	255	259	253	243	238	231	225	220	219	226	237	251	256	260	266	247
2	283	297	306	281	281	278	266	260	254	254	260	254	253	249	251	252	244	243	249	254	254	266	285	275	265
3	263	259	255	245	248	244	242	240	244	243	232	227	224	224	223	225	239	236	239	255	262	273	275	265	245
4	258	254	250	237	229	231	230	222	233	239	243	242	236	236	237	236	233	233	233	245	250	248	249	251	240
5	250	245	243	242	226	209	206	212	222	224	226	227	226	227	222	213	213	219	225	230	236	242	248	249	228
6 D	255	266	266	233	97	139	133	137	124	145	190	197	202	208	224	221	233	238	257	273	284	290	284	291	216
7 Q	280	262	253	245	239	243	242	243	244	249	248	248	248	249	248	242	238	236	238	239	242	242	243	242	246
8	240	239	239	238	239	239	239	238	236	236	233	236	236	232	226	228	236	233	230	240	257	272	285	315	243
9 D	320	299	254	227	220	203	250	250	238	227	226	216	213	218	224	227	237	243	244	255	254	269	298	279	245
10	268	271	226	231	262	267	255	225	233	249	232	236	232	232	236	236	240	253	255	260	273	286	279	267	250
11	262	255	255	255	249	245	239	233	239	249	248	245	243	245	245	243	243	244	244	248	249	254	251	256	247
12	256	251	249	248	246	243	243	227	218	233	242	236	238	238	238	233	233	238	242	249	257	265	256	252	243
13 Q	248	245	244	240	242	242	241	233	239	240	244	242	242	242	242	240	236	236	229	238	242	245	245	244	241
14	246	244	243	242	240	227	226	233	238	238	237	232	230	231	230	228	232	235	238	242	243	245	242	242	237
15 Q	238	239	240	239	238	236	236	236	236	239	242	240	239	237	238	238	237	233	232	238	243	248	243	243	239
16	239	238	237	236	236	236	236	236	236	238	238	238	236	236	238	230	230	230	225	219	223	230	236	236	234
17	233	233	236	236	219	207	237	239	239	243	243	237	236	235	232	232	225	230	248	255	254	245	244	245	237
18	243	240	239	236	225	225	212	218	208	213	233	233	232	227	223	223	227	230	236	242	236	233	235	236	229
19 Q	236	239	239	236	231	233	235	234	236	237	237	237	233	232	229	228	226	227	236	239	238	240	239	238	235
20 Q	236	236	236	235	233	230	232	232	233	234	236	234	233	232	232	236	239	238	233	230	231	232	232	232	234
21	234	233	233	232	227	230	230	232	232	236	233	230	227	226	229	230	231	227	230	236	238	239	246	245	233
22	245	239	236	231	232	231	227	232	233	234	236	236	233	230	225	229	227	230	236	239	233	233	238	239	233
23	239	239	233	215	220	230	232	230	230	229	230	230	230	230	227	226	233	240	239	260	301	361	351	348	250
24 D	342	337	273	272	243	116	95	196	84	203	214	162	188	235	242	242	248	253	261	266	268	261	254	248	229
25	257	255	254	248	239	238	237	227	179	142	177	208	221	229	233	232	242	242	239	248	260	278	271	269	234
26	278	277	265	256	251	227	233	245	248	245	237	222	215	233	242	239	236	235	232	239	244	249	249	245	243
27	244	242	239	238	238	238	236	238	238	241	239	238	236	232	227	233	233	232	227	220	224	231	239	244	235
28	245	243	243	241	242	243	242	242	242	242	239	238	233	231	226	224	222	220	225	227	236	239	242	238	236
29 D	236	237	236	236	235	235	231	232	233	233	238	236	232	230	229	236	242	266	346	404	395	407	425	432	278
30 D	405	366	327	189	116	284	281	274	249	238	248	253	255	248	245	248	245	252	256	256	266	257	266	272	262
31																									
Mean	262	259	251	240	230	230	229	231	225	231	235	232	232	233	233	232	234	236	242	249	255	261	264	263	241

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 24. Agincourt.

June, 1950.

Day	Horizontal Intensity						Declination						Vertical Intensity									
	Maximum 15,000 γ +			Minimum 15,000 γ +			Maximum 7° West +			Minimum 7° West +			Maximum 56,000 γ +			Minimum 56,000 γ +						
	h.	m.	γ	h.	m.	γ	h.	m.	'	h.	m.	'	h.	m.	γ	h.	m.	γ				
1	23	42	462	15	30	353	109	16	47	35.8	3	44	10.4	25.4	1	24	277	17	10	219	58	
2	21	48	458	17	0	358	100	18	9	33.1	4	17	6.4	26.7	2	3	322	4	3	233	89	
3	22	8	443	15	32	358	85	19	34	32.2	13	41	12.0	20.2	22	7	280	12	33	216	64	
4	23	25	447	15	7	366	81	19	52	27.6	4	10	6.9	20.7	0	1	259	7	24	216	43	
5	23	40	445	17	26	388	57	19	5	31.2	1	18	11.2	20.0	1	10	254	6	48	192	62	
6 D	3	28	464	15	33	283	181	16	39	35.0	4	17	-15.5	50.5	21	4	292	4	31	59	233	
7 Q	20	0	443	15	30	398	45	18	48	27.6	12	37	15.7	11.9	0	1	288	18	27	236	52	
8	21	40	508	15	10	391	117	19	8	32.1	12	40	13.2	18.9	23	45	325	15	12	225	100	
9 D	22	43	482	5	2	353	129	5	38	37.0	2	37	-11.4	48.4	0	25	332	5	7	137	195	
10	21	25	467	3	48	354	113	7	30	32.8	12	3	11.3	21.5	21	55	286	2	52	208	78	
11	21	30	456	16	30	390	66	18	24	30.2	12	28	14.1	16.1	1	5	266	7	9	230	36	
12	20	10	450	15	56	369	81	18	3	32.8	13	30	13.1	19.7	21	15	266	8	15	208	58	
13 Q	21	26	445	14	32	380	65	19	15	27.6	12	45	14.0	13.6	0	1	248	7	34	227	21	
14	20	54	445	14	24	390	55	18	45	30.0	11	58	10.8	19.2	20	51	248	5	27	221	27	
15 Q	20	18	453	15	52	387	66	18	10	32.1	12	26	12.8	19.3	20	58	248	18	10	231	17	
16	18	43	497	14	40	405	92	17	58	33.4	12	8	12.6	20.8	0	1	242	19	43	214	28	
17	18	45	463	15	35	371	92	17	50	34.8	12	55	10.7	24.1	20	5	259	5	28	180	79	
18	19	22	456	14	8	386	70	17	22	31.3	11	37	11.8	19.5	0	5	243	8	40	201	42	
19 Q	20	32	451	16	1	394	57	22	46	28.0	12	13	13.9	14.1	2	38	240	14	52	225	15	
20 Q	20	10	475	15	18	389	86	18	43	29.4	14	50	13.9	15.5	16	32	239	5	15	228	11	
21	22	30	478	16	2	381	97	17	58	30.6	13	27	12.0	18.6	22	28	255	4	48	225	30	
22	21	14	458	14	36	370	88	19	43	32.1	14	30	9.7	22.4	0	35	246	14	35	220	26	
23	22	2	596	15	56	366	230	18	45	38.4	3	8	6.9	31.5	23	19	407	3	33	206	201	
24 D	4	22	535	8	22	174	361	8	38	36.2	5	11	-22.3	58.5	0	27	432	8	34	-60	492	
25	23	39	464	9	10	357	107	18	4	30.2	1	20	13.2	17.0	21	32	285	9	5	127	158	
26	0	32	466	12	0	381	85	17	54	31.2	2	7	10.7	20.5	0	38	285	5	37	212	73	
27	23	11	443	14	43	390	53	17	25	34.0	12	7	12.8	21.2	0	15	246	19	55	219	27	
28	20	59	445	15	56	384	61	19	17	31.9	11	56	12.2	19.7	0	15	248	17	0	218	30	
29 D	23	57	722	16	12	340	382	23	59	35.2	13	58	5.9	29.3	23	32	463	14	20	220	243	
30 D	0	1	608	4	28	-241	849	4	37	73.2	3	48	-11.3	84.5	0	14	459	4	27	-106	565	
31																						
Mean			481			346	135			33.6			7.9	25.7			291			186	105	
No. days			30			30	30			30			30	30			30			30	30	

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT
Mean values for periods of sixty minutes, Universal Time

Table 25. Agincourt. (H.)

15,000 γ +

July, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	405	412	400	404	406	406	405	406	405	404	405	394	385	388	383	374	370	389	407	424	431	440	409	417	403
2	424	426	420	416	406	405	411	414	409	411	409	402	397	393	389	387	389	410	437	445	453	441	432	432	415
3	430	431	427	428	422	422	423	424	427	424	420	417	412	424	415	376	380	405	418	441	492	536	539	554	437
4 D	513	405	381	401	383	367	374	398	401	405	401	390	378	369	345	345	371	393	407	419	423	431	447	431	399
5	426	403	390	399	400	405	405	407	405	404	404	393	376	386	386	381	389	390	418	427	427	437	423	429	405
6	431	420	421	417	415	416	411	410	406	402	406	407	404	402	384	394	404	419	440	451	447	451	431	429	417
7	433	431	416	423	419	423	422	415	411	410	411	416	411	399	400	397	405	421	434	448	451	452	450	426	422
8	421	425	421	420	420	422	416	410	414	414	414	419	415	403	380	375	390	411	429	438	439	437	431	426	416
9	432	435	424	416	419	433	400	405	419	415	416	416	409	400	388	393	407	415	426	432	435	431	426	426	417
10	426	425	426	421	421	421	425	435	435	419	417	422	416	416	414	395	410	432	444	447	450	452	455	424	427
11 D	421	411	426	430	430	431	431	430	432	434	430	431	421	405	405	417	413	430	455	479	494	538	559	530	445
12 D	451	393	331	330	313	346	351	373	377	318	336	386	380	376	387	386	386	396	416	425	426	422	434	437	382
13	409	407	391	409	411	421	438	434	427	397	412	421	402	400	406	405	399	412	430	433	440	431	426	424	416
14	411	419	421	414	417	416	407	405	411	421	416	408	403	404	394	395	393	402	421	421	429	441	431	426	414
15	412	416	423	419	410	421	435	424	411	410	414	416	416	407	389	390	402	416	430	432	445	451	442	433	419
16	424	411	416	420	421	414	405	421	424	410	410	421	412	400	395	388	396	411	421	436	436	438	436	434	417
17 Q	422	421	426	424	428	430	428	427	431	425	422	417	412	409	399	394	404	414	426	437	442	444	446	439	424
18 Q	439	428	431	426	421	423	426	431	425	421	421	416	405	390	387	390	411	426	438	439	440	440	440	435	423
19 Q	432	426	424	429	431	424	424	426	426	428	431	425	412	399	393	386	405	432	445	449	460	459	450	446	427
20	441	450	450	451	447	439	430	435	433	426	424	424	421	407	394	390	393	407	432	455	457	455	455	442	432
21	435	430	427	429	425	422	424	420	420	416	416	421	425	424	409	405	415	426	442	455	448	453	441	421	427
22	438	431	422	414	417	425	433	435	420	414	417	418	416	417	410	404	410	421	432	439	440	448	444	434	425
23 Q	430	432	428	427	424	424	427	422	424	421	422	423	424	418	410	405	410	422	432	436	441	435	438	435	425
24 D	435	443	459	461	445	448	400	412	432	426	390	416	412	397	397	404	419	435	470	514	544	589	541	538	451
25 D	522	448	388	318	284	241	225	254	323	359	387	395	383	385	390	387	390	402	416	421	428	423	431	417	376
26 Q	417	416	417	412	414	416	419	421	417	411	411	410	408	398	394	401	415	417	421	424	422	421	429	425	415
27	419	421	421	421	427	433	427	421	413	400	398	390	389	393	395	398	408	418	432	441	450	452	451	450	420
28	441	416	412	413	416	431	429	430	426	421	420	419	413	402	390	385	402	416	427	433	442	450	440	440	421
29	438	433	429	436	428	426	431	433	434	427	416	408	411	401	389	386	402	420	439	465	471	457	446	430	427
30	415	421	422	417	416	421	420	421	421	427	411	400	407	383	362	373	382	400	417	439	447	448	442	433	414
31	433	433	440	417	412	420	424	425	424	429	425	423	415	404	394	392	404	402	418	440	472	465	446	440	425
Mean	433	423	417	415	411	412	411	414	416	411	411	412	406	400	393	390	399	413	430	441	449	454	449	442	419

MAGNETIC DECLINATION
 Mean values for periods of sixty minutes, Universal Time

Table 26. Agincourt. (D.) West.

7° + . . . '.

July, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	25.0	23.6	13.6	23.4	23.8	23.7	23.6	23.0	24.7	23.0	17.8	14.9	14.7	12.7	14.4	19.6	24.9	29.1	29.5	29.8	29.2	28.1	28.3	23.8	22.7
2	23.0	22.2	23.3	21.0	21.5	25.0	20.1	22.1	21.4	20.4	18.6	15.8	15.5	15.9	18.5	23.4	25.9	28.0	29.5	30.2	29.1	27.5	25.5	24.4	22.9
3	23.4	23.1	22.3	20.8	23.1	23.1	22.4	21.7	20.8	18.9	17.7	15.3	17.1	11.9	14.9	16.9	24.6	28.3	28.9	29.5	27.6	26.3	22.6	26.1	22.0
4 D	14.0	2.1	18.0	17.3	6.7	14.2	16.7	21.3	22.8	20.4	16.8	14.3	11.7	12.2	18.5	21.7	26.5	29.4	31.7	31.8	30.3	28.5	25.2	23.1	19.7
5	15.9	21.7	18.6	21.5	19.4	21.3	22.2	22.3	21.3	20.1	18.3	17.6	24.4	19.9	15.3	17.6	22.6	25.6	26.5	27.3	28.3	27.7	25.6	24.7	21.9
6	23.5	21.5	20.3	20.3	21.1	21.8	21.0	24.7	19.2	20.4	20.1	14.4	12.7	13.8	17.4	22.1	23.7	27.4	27.8	28.3	27.7	26.7	25.9	25.2	22.0
7	24.1	22.6	19.9	22.5	21.7	23.0	22.5	22.1	21.7	22.0	18.1	14.7	14.0	14.9	17.6	20.7	25.4	27.2	29.1	28.1	26.6	25.4	21.3	23.1	22.0
8	23.2	22.8	24.1	23.6	22.4	21.1	23.9	24.5	21.9	20.1	20.0	14.6	13.1	13.2	16.0	23.2	29.5	30.4	30.5	28.4	27.6	26.0	24.5	23.2	22.8
9	21.3	17.1	18.4	19.9	20.2	23.9	18.6	16.8	17.7	16.6	14.8	13.1	12.7	13.6	17.6	22.8	24.9	27.4	28.6	28.0	26.9	25.9	24.2	22.2	20.5
10	21.4	22.2	22.1	22.3	22.3	23.1	22.8	24.3	24.6	23.9	21.0	18.5	17.7	18.7	18.6	22.8	27.8	29.3	28.6	28.3	25.3	24.0	20.7	20.5	23.0
11 D	17.8	19.9	23.2	22.7	22.3	22.4	22.3	21.8	21.4	22.2	20.2	15.7	14.5	14.1	20.8	23.9	26.9	28.7	29.6	28.7	25.7	23.9	13.6	19.4	21.7
12 D	23.2	12.0	15.3	27.7	28.9	22.4	16.4	23.5	21.1	42.1	35.7	18.8	16.5	18.6	22.2	25.0	27.5	28.7	28.6	30.0	29.9	27.8	24.1	21.3	23.2
13	23.1	19.5	10.2	12.4	18.6	20.4	23.9	21.1	19.6	24.5	18.7	13.2	14.1	20.4	21.3	22.1	25.1	27.7	27.7	29.2	25.7	20.0	23.2	21.1	21.1
14	22.2	21.4	21.8	22.1	21.8	20.1	22.2	30.9	37.8	25.3	18.1	15.0	12.3	11.8	16.1	20.5	24.2	28.1	29.1	30.0	28.4	25.1	23.5	22.7	23.0
15	20.5	21.4	17.8	19.5	18.7	20.0	23.2	26.4	21.4	21.4	17.7	14.5	12.8	13.6	16.3	21.8	26.0	27.7	30.0	28.7	26.9	24.8	22.6	20.9	21.4
16	20.0	20.2	20.5	22.1	20.2	15.0	21.4	22.9	22.8	29.9	34.1	20.9	14.6	13.1	14.1	19.6	24.3	27.7	28.4	29.1	27.8	25.2	23.8	20.9	22.4
17 Q	20.9	18.3	20.9	22.1	22.2	22.4	22.6	27.7	26.0	23.0	17.8	15.1	13.7	14.9	17.2	20.9	25.7	28.7	31.8	32.8	30.2	27.7	23.9	21.4	22.9
18 Q	20.4	21.1	22.3	21.1	21.3	20.7	22.3	24.6	22.2	20.1	17.8	14.1	12.0	10.7	14.8	21.7	25.5	28.1	29.2	29.6	28.6	27.2	24.3	22.2	21.8
19 Q	20.1	20.2	20.5	21.8	22.2	21.5	21.7	21.8	21.3	19.7	16.8	13.7	12.3	13.4	15.3	20.4	24.1	27.8	29.7	30.0	27.3	24.0	22.4	22.2	21.2
20	22.3	21.8	21.8	21.4	21.5	21.2	19.5	20.2	19.1	18.1	15.0	12.0	10.9	12.8	15.8	20.4	24.1	26.8	28.5	28.7	27.6	25.4	23.4	23.0	20.9
21	22.1	22.8	22.8	22.5	22.4	23.2	22.1	21.1	20.2	20.4	20.2	15.4	14.4	13.0	11.8	16.8	22.8	26.0	28.7	28.6	28.7	26.5	26.4	25.3	21.9
22	22.1	21.2	19.5	19.0	20.9	21.0	20.1	20.6	20.2	15.1	11.5	11.0	13.1	14.2	18.1	23.6	28.5	30.1	27.8	25.9	24.1	23.1	21.4	20.5	20.5
23 Q	21.6	22.2	22.8	22.2	22.1	23.2	22.2	21.0	21.1	19.5	17.7	16.0	15.1	15.1	17.0	29.6	22.7	25.7	28.7	29.2	28.3	28.2	25.1	23.2	22.4
24 D	22.6	21.8	21.7	20.9	17.8	22.3	16.3	12.0	13.0	13.9	22.3	9.0	8.7	10.1	13.2	19.4	23.6	26.9	28.1	25.7	24.0	24.1	20.5	22.3	19.1
25 D	27.8	18.4	15.0	9.9	18.7	22.2	19.3	22.2	10.0	8.7	10.0	10.2	13.0	15.0	18.5	20.9	21.8	24.6	26.8	23.9	22.3	21.1	22.1	23.6	18.6
26 Q	24.1	23.8	23.7	24.2	24.0	23.6	23.0	22.6	22.6	21.8	19.1	16.0	15.0	17.3	19.5	22.4	24.1	25.3	26.5	25.8	25.0	24.7	22.6	22.8	22.4
27	23.0	24.1	24.1	23.6	22.2	22.3	21.5	20.1	19.0	16.5	18.4	15.8	13.1	14.1	18.4	23.3	26.8	31.3	34.1	33.2	32.1	27.7	24.2	22.6	23.0
28	21.4	13.0	15.0	14.1	19.6	22.0	21.9	20.1	19.0	18.1	17.5	14.6	13.9	14.1	15.9	21.8	26.3	29.6	31.9	30.9	29.9	28.2	26.4	23.7	21.2
29	22.2	24.0	22.9	21.1	22.1	22.1	21.1	21.2	20.6	17.8	16.3	14.6	10.5	8.5	13.1	19.5	25.7	28.8	31.7	31.9	30.9	29.1	26.0	23.1	21.9
30	24.2	23.2	18.7	17.3	21.4	23.6	23.2	22.2	21.5	20.1	18.9	24.2	16.5	13.1	15.9	21.4	26.9	31.4	32.3	30.4	27.2	25.4	25.0	23.9	22.8
31	23.5	23.2	18.4	12.0	18.6	19.9	21.7	21.8	20.9	19.6	17.1	14.4	12.7	13.1	12.8	18.1	23.9	29.2	34.3	32.3	28.4	26.9	25.1	23.2	21.3
Mean	22.0	20.4	19.1	20.4	21.0	21.7	21.3	22.2	21.2	21.0	19.0	15.1	14.0	14.1	16.6	21.2	25.1	28.1	29.6	29.2	27.8	26.1	23.7	22.8	21.8

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes, Universal Time

Table 27. Agincourt. (Z.)

56,000 γ +

July, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	262	256	243	248	245	244	243	236	226	236	245	243	242	243	240	242	242	239	233	236	245	255	260	260	244
2	253	251	253	250	242	209	227	238	243	245	245	245	243	248	245	236	230	232	232	232	232	233	238	239	239
3	242	243	242	232	238	241	238	238	239	242	242	241	230	226	227	227	225	227	233	253	279	337	387	414	256
4 D	402	351	298	298	173	214	236	261	263	262	261	258	256	261	259	255	254	257	260	267	266	257	260	272	267
5	283	273	233	230	250	250	249	248	245	247	250	243	223	219	226	227	236	232	242	245	254	262	262	255	245
6	253	255	248	243	245	245	233	207	204	227	232	239	233	232	231	236	233	235	237	243	243	242	242	243	237
7	244	249	249	245	238	232	230	238	238	240	238	244	243	245	243	236	233	233	238	248	257	267	278	271	245
8	257	249	245	242	242	235	221	216	232	238	240	244	242	243	246	251	248	238	235	244	250	248	247	244	242
9	243	242	234	239	239	191	178	213	220	230	236	242	245	242	236	230	233	237	239	238	238	248	249	250	233
10	249	243	239	239	238	238	233	224	208	207	207	214	224	214	216	219	226	225	222	236	242	242	250	251	229
11 D	258	254	244	239	238	237	235	235	236	237	233	231	233	229	229	227	232	236	265	312	321	354	360	343	259
12 D	372	331	214	116	-93	124	166	192	201	184	142	202	210	222	230	233	230	229	243	254	256	253	261	279	210
13	286	272	265	220	238	238	191	225	240	201	190	232	230	222	220	223	230	236	243	248	248	248	250	255	235
14	251	248	245	242	237	221	219	200	178	216	238	242	242	243	245	247	248	242	238	233	242	258	265	270	238
15	266	256	242	216	225	227	197	198	213	226	230	236	238	238	238	236	230	230	230	227	225	233	243	249	231
16	249	249	243	242	237	226	225	232	238	225	196	213	230	229	227	236	242	243	240	245	241	239	245	249	235
17 Q	248	238	232	234	233	236	232	220	214	213	226	233	238	233	226	224	222	225	232	236	233	238	239	239	231
18 Q	239	242	238	237	233	225	216	218	226	235	238	238	232	232	227	226	232	232	222	224	227	233	243	245	232
19 Q	243	239	239	237	235	232	231	231	233	236	238	237	236	233	232	230	229	233	236	233	236	239	238	237	235
20	237	236	234	233	232	231	233	233	233	235	233	230	226	227	225	222	227	225	229	238	245	245	242	240	233
21	242	241	239	238	238	239	238	238	239	236	232	226	225	219	225	230	230	224	230	233	236	245	254	245	235
22	243	242	248	249	245	236	233	231	231	226	232	237	233	233	233	230	227	231	229	232	239	242	242	242	236
23 Q	243	241	238	239	238	236	227	231	233	236	237	237	238	233	227	227	225	230	236	233	233	231	233	236	234
24 D	233	233	232	230	214	104	128	196	215	224	195	190	214	222	230	231	231	240	253	298	331	391	391	397	243
25 D	419	386	310	242	224	203	130	145	154	165	197	222	226	239	242	233	242	248	249	248	250	250	253	248	239
26 Q	248	248	245	244	242	242	239	238	238	239	239	242	239	239	236	236	240	242	239	243	253	250	249	243	242
27	243	239	241	239	233	222	229	223	213	227	226	215	215	227	225	219	221	229	232	238	244	245	248	245	231
28	251	254	242	249	253	248	244	240	239	239	242	239	242	242	242	233	227	226	230	233	237	239	239	242	241
29	242	237	239	239	239	238	232	231	231	237	239	233	230	233	236	232	229	230	230	242	253	252	250	250	238
30	245	239	236	224	233	236	236	235	236	239	236	223	219	230	231	227	228	232	233	239	247	248	245	238	235
31	236	235	231	214	226	237	238	238	236	239	241	242	242	238	230	225	222	229	236	235	244	250	249	242	236
Mean	264	257	245	235	224	224	220	224	226	229	228	235	233	233	233	232	232	234	237	244	250	257	262	262	238

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 28. Agincourt.

July, 1950.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ	Maximum 7° West +		Minimum 7° West +		Range	Maximum 56,000 γ +		Minimum 56,000 γ +		Range
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		h. m.	γ	h. m.	γ	
1	21 47	447	16 20	357	90	22 30	32.2	2 30	1.7	30.5	0 1	268	8 50	217	51
2	20 42	460	15 25	384	76	19 20	30.4	12 5	15.0	15.4	0 12	254	5 20	197	57
3	23 53	612	16 11	361	251	23 40	32.7	13 45	10.4	22.3	23 48	478	14 31	222	256
4 D	0 47	576	14 54	324	252	19 26	34.3	4 37	-11.0	45.3	0 18	439	4 44	76	363
5	21 30	453	2 32	369	84	21 2	29.5	0 22	2.8	26.7	0 18	321	2 58	201	120
6	19 45	461	14 32	376	85	19 17	29.4	2 7	10.9	18.5	2 0	261	8 3	192	69
7	21 4	470	15 57	386	84	18 52	30.0	2 8	12.7	17.3	22 35	281	6 1	222	59
8	20 22	494	14 40	373	121	18 13	31.1	12 52	12.2	18.9	0 1	262	7 8	206	56
9	5 55	447	14 51	384	63	18 23	30.0	12 45	10.0	20.0	23 50	251	5 58	161	90
10	22 12	471	15 33	335	136	16 47	29.9	12 28	15.5	14.4	23 59	255	10 38	203	52
11 D	22 8	601	14 4	376	225	21 56	40.4	22 10	6.8	33.6	22 3	462	14 23	221	241
12 D	2 17	471	4 30	221	250	9 50	63.9	2 38	46.6	110.5	0 31	404	4 0	-174	578
13	6 39	466	2 50	359	107	19 25	31.1	2 58	-11.6	42.7	2 52	292	6 51	147	145
14	22 9	451	17 6	377	74	8 7	40.5	13 27	10.4	30.1	23 50	272	7 53	166	106
15	21 50	462	14 19	377	85	19 3	31.7	12 7	12.3	19.4	0 8	272	6 40	180	92
16	21 6	454	15 30	385	69	10 8	40.1	13 58	12.0	28.1	0 42	253	10 20	189	64
17 Q	21 20	453	15 0	394	59	18 57	33.9	12 38	13.1	20.8	0 4	249	9 2	207	42
18 Q	0 13	448	15 0	380	68	19 43	29.4	15 4	8.7	20.7	23 45	249	7 0	213	36
19 Q	20 52	466	15 50	381	85	19 12	30.6	13 13	11.3	19.3	22 4	243	15 45	225	18
20	20 21	470	15 46	386	84	19 11	29.9	12 36	10.7	19.2	20 22	248	15 50	222	26
21	19 53	465	15 20	399	66	20 26	30.5	14 32	11.5	19.0	22 26	256	13 16	218	38
22	21 27	450	15 50	399	51	17 57	30.6	12 17	8.4	22.2	2 45	252	9 20	221	31
23 Q	20 40	442	16 5	404	38	18 50	30.0	13 7	14.7	15.3	0 10	244	16 43	224	20
24 D	22 0	610	6 54	368	242	6 0	42.4	12 3	7.2	35.2	23 58	426	5 19	65	361
25 D	0 25	626	5 32	31	595	0 36	48.1	9 35	2.7	45.4	0 25	459	6 49	-6	465
26 Q	22 25	435	14 45	388	47	18 18	27.1	12 45	14.7	12.4	20 35	255	14 46	232	23
27	21 13	465	12 40	379	86	18 45	34.6	13 4	11.7	22.9	22 13	249	8 13	208	41
28	21 49	465	15 10	380	85	18 10	32.0	1 30	11.1	20.9	1 5	267	16 44	224	43
29	20 50	478	15 20	375	103	19 10	33.0	13 10	7.9	25.1	21 1	256	7 20	227	29
30	20 56	471	14 47	357	114	18 15	32.8	3 0	9.3	23.5	20 56	255	11 56	209	46
31	21 12	503	15 6	380	123	18 32	35.7	3 0	6.0	29.7	21 12	262	3 26	204	58
Mean		485		360	125		34.1		6.9	27.2	2	297		178	119
No. days		31		31	31		31		31	31		31		31	31

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 29. Agincourt. (H.)

15,000 γ +

August, 1950.

/	Hour	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
	U. T.																										
	Day																										
1		440	444	424	420	409	400	416	426	430	433	431	421	407	407	377	383	401	406	396	464	450	444	445	439	421	
2		426	433	421	412	421	424	428	431	418	417	418	411	399	384	391	397	419	444	454	443	441	431	416	421		
3		421	410	410	399	416	416	419	423	414	410	405	406	403	395	405	394	416	424	450	448	455	448	444	426	419	
4		425	419	433	425	421	418	415	421	423	418	417	414	418	408	400	399	419	436	440	446	451	442	436	435	424	
5		430	431	431	429	428	426	426	426	428	423	423	414	399	397	394	411	433	451	460	468	464	447	439	429		
6		430	427	426	422	421	421	426	425	423	423	424	424	421	411	396	390	400	412	428	443	435	448	440	441	423	
7 D		438	442	422	412	419	426	426	414	410	416	421	440	436	435	433	421	436	443	420	477	432	524	612	709	453	
8 D		596	701	492	381	339	234	-97	-228	184	405	419	409	394	386	374	368	380	398	405	402	400	402	399	402	356	
9		401	405	407	402	419	382	371	313	344	372	363	345	323	314	327	389	378	388	414	415	425	434	431	409	382	
10 D		399	412	417	424	422	430	406	417	426	408	398	421	396	391	400	380	390	405	420	456	456	434	431	418	415	
11		406	410	422	416	378	386	371	402	416	398	388	350	391	391	376	372	390	420	425	426	435	432	435	412	402	
12		405	399	412	399	419	408	409	400	374	409	404	384	380	384	384	357	352	391	416	419	410	419	420	421	399	
13		415	420	420	414	408	403	409	419	417	416	395	400	407	391	373	383	395	395	416	423	420	425	435	421	409	
14		411	416	410	412	414	417	420	425	426	409	402	420	400	389	396	412	424	425	436	441	440	445	445	441	420	
15		443	426	419	420	433	420	426	425	417	408	409	406	389	370	372	377	390	402	416	417	426	432	434	432	413	
16 Q		432	424	428	416	413	421	416	405	414	414	417	413	402	386	370	365	375	387	405	417	421	423	425	433	409	
17 Q		425	429	425	423	420	418	419	419	418	417	415	417	410	389	380	377	384	399	422	434	437	447	437	433	416	
18		434	432	432	429	417	422	417	422	422	422	421	421	407	388	381	388	397	419	423	450	479	505	482	461	428	
19 D		472	470	374	384	362	336	312	283	151	252	251	51	-283	-234	64	211	308	386	369	407	(540	742	773	798)	324	
20 D		288	185	183	-228	-304	-262	-201	-242	-176	103	400	333	318	368	358	349	364	369	377	393	411	408	403	399	192	
21		399	399	407	400	400	399	395	385	345	364	383	397	394	374	359	365	365	372	385	406	404	408	405	405	388	
22		401	398	393	395	402	403	407	404	405	405	403	400	404	392	376	378	374	388	404	412	407	412	410	411	399	
23		409	400	403	406	407	407	410	410	414	406	395	401	402	390	374	369	367	377	400	416	422	433	416	411	402	
24 Q		410	414	411	413	411	411	412	413	410	409	400	400	405	396	388	381	382	393	405	414	424	430	419	416	407	
25 Q		420	419	404	404	410	409	414	414	413	414	410	404	399	385	380	385	390	400	406	410	419	418	418	419	407	
26 Q		421	421	419	420	414	412	413	412	414	416	419	414	404	390	382	380	391	402	413	420	426	425	429	430	412	
27		429	426	428	425	426	425	424	426	422	423	423	419	407	390	382	392	410	433	441	447	443	442	429	432	423	
28		424	423	427	427	428	422	418	416	421	409	407	414	424	411	392	376	403	418	437	460	427	445	445	422	421	
29		416	412	419	418	405	391	402	395	403	401	409	404	396	372	377	374	390	407	426	426	433	428	419	417	406	
30		406	412	407	417	429	429	419	425	414	410	410	405	400	388	381	377	393	404	418	429	422	431	421	417	411	
31		416	417	416	419	421	421	426	413	414	419	417	410	397	393	381	369	378	401	422	427	428	436	434	425	413	
Mean		422	422	411	392	388	383	373	366	376	395	403	393	377	369	372	376	389	405	417	431	435	447	447	445	401	

AGINCOURT MAGNETIC OBSERVATORY, 1950-1951

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 32. Agincourt.

August, 1950.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ	Maximum 7° West +		Minimum 7° West +		Range	Maximum 56,000 γ +		Minimum 56,000 γ +		Range γ
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		h. m.	γ	h. m.	γ	
1	0 50	507	14 55	358	149	21 28	33.4	14 27	6.5	26.9	20 56	267	3 48	206	61
2	19 8	472	14 32	369	103	20 33	32.7	12 32	9.7	23.0	19 58	280	6 55	206	74
3	20 6	468	13 47	374	94	10 38	30.2	1 42	2.1	28.1	23 10	257	10 4	188	69
4	2 33	461	15 46	390	71	19 16	28.1	13 17	12.7	15.4	1 27	251	5 15	207	44
5	20 38	469	15 12	391	78	18 8	32.2	13 3	14.0	18.2	23 43	250	16 38	207	43
6	21 6	491	15 0	385	106	19 9	33.2	12 46	12.0	21.2	1 45	267	16 13	217	50
7D	(23 30	824)	20 25	397	(427)	20 26	33.1	23 22	0.8	32.3	23 19	576	16 23	195	381
8D	(1 20	845)	7 55	-529	(1374)	6 53	122.1	4 25	-6.0	128.1	2 13	435	7 10	-427	862
9	21 59	445	7 12	287	158	5 5	40.5	5 57	3.5	37.0	23 40	339	8 34	116	223
10D	20 7	497	15 25	347	150	15 44	41.9	23 12	-0.2	42.1	20 0	357	5 18	163	194
11	2 47	458	11 34	314	144	6 49	40.9	2 38	-3.3	44.2	23 37	307	11 39	115	192
12	4 0	435	16 15	336	99	8 33	49.6	3 2	5.9	43.7	0 11	286	8 42	85	201
13	22 15	458	14 38	364	94	7 8	36.3	13 5	11.0	25.3	22 15	265	4 45	168	97
14	21 50	495	13 9	359	136	17 23	32.0	4 0	9.4	22.6	21 51	268	13 41	190	78
15	4 46	459	13 50	361	98	4 56	41.1	1 16	9.0	32.1	1 7	267	4 53	121	146
16Q	23 12	444	15 6	363	81	3 53	31.6	13 2	12.6	19.0	23 9	245	4 3	206	39
17Q	22 2	447	15 12	365	82	17 53	34.0	13 26	13.6	20.4	21 58	239	17 55	226	13
18	21 5	542	13 38	377	165	21 7	38.3	13 27	10.5	27.8	23 48	335	18 2	213	122
19D	(23 0	876)	(12 45	-374)	(1250)	(12 30	132.2)	23 16	-43.6	(175.8)	0 43	484	(11 38	-526)	(1010)
20D	0 1	589	(3 25	-412)	(1001)	(3 52	129.8)	(7 50	-42.7)	(172.5)	(2 57	757	(9 53	-469)	(1226)
21	2 0	424	8 27	292	132	7 48	44.1	10 29	9.0	33.1	0 9	258	8 17	28	230
22	19 0	420	14 41	369	51	19 17	30.0	12 54	18.3	11.7	18 57	256	8 46	229	27
23	21 28	438	15 50	364	74	10 0	33.1	12 31	12.7	20.4	20 3	255	10 22	194	61
24Q	21 49	437	16 13	378	59	18 2	32.9	13 7	17.7	15.2	21 46	253	9 50	221	32
25Q	1 3	428	14 37	377	51	18 46	32.9	13 37	16.7	16.2	3 6	245	16 48	222	23
26Q	23 59	437	15 11	375	62	17 47	32.4	12 27	13.5	18.9	20 0	241	15 10	214	27
27	19 1	452	14 18	378	74	17 5	34.1	12 38	12.7	21.4	21 38	235	22 56	218	17
28	21 32	496	15 16	344	152	17 14	34.5	11 47	10.3	24.2	23 45	266	15 13	186	80
29	21 9	461	14 0	354	107	18 20	33.2	4 15	1.8	31.4	4 12	284	4 55	160	124
30	4 17	452	15 33	369	83	17 36	35.4	0 12	-3.8	39.2	0 8	267	6 27	165	102
31	22 20	444	15 29	364	80	17 6	34.7	12 25	11.6	23.1	22 28	235	6 27	189	46
Mean		502		283	219		44.2		5.1	39.1		307		117	190
No. days		31		31	31		31		31	31		31		31	31

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 33. Agincourt. (H.)

15,000 γ +

September, 1950.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 Q	426	423	423	426	426	419	423	423	416	412	416	412	401	383	371	383	390	408	418	428	434	434	431	426	415
2	426	417	423	427	427	423	421	420	422	420	417	413	405	393	383	390	403	415	435	445	441	436	435	428	419
3 D	431	434	421	414	410	382	354	347	403	422	417	391	387	396	375	354	380	415	410	426	419	421	476	615	413
4 D	368	374	385	411	381	334	275	308	280	344	374	378	370	369	349	342	364	369	378	409	404	410	415	376	365
5 D	352	367	383	386	385	347	332	254	257	233	355	369	362	367	364	360	349	362	404	410	416	458	409	397	362
6 D	373	377	393	367	375	367	297	352	352	347	332	317	374	361	343	351	361	371	386	400	412	409	417	393	368
7	391	400	407	402	401	397	390	389	391	391	377	381	371	370	361	373	376	381	389	393	414	399	402	405	390
8	408	405	404	420	416	361	335	348	321	385	397	391	376	371	360	352	377	372	399	419	416	416	400	365	384
9	383	390	393	376	391	395	388	383	381	398	397	396	381	371	366	362	357	373	393	408	410	416	407	407	388
10	394	404	380	374	392	393	398	400	400	401	400	398	386	369	363	357	374	388	386	399	394	409	413	400	391
11	385	399	390	414	400	407	398	383	397	394	394	393	379	364	355	360	369	384	392	413	416	411	405	393	391
12	402	393	395	407	410	405	407	409	391	388	400	400	385	377	375	381	385	395	407	417	417	407	402	410	399
13	409	406	410	410	412	410	404	402	405	407	410	403	390	381	374	370	380	398	420	428	439	400	400	405	403
14 Q	402	406	406	405	403	400	403	401	401	402	401	394	380	364	355	362	380	393	410	418	422	419	414	410	398
15 Q	412	415	412	409	410	410	410	408	407	407	406	399	382	367	357	362	370	382	396	412	420	424	426	423	401
16	426	424	416	414	414	416	416	416	417	419	428	426	402	380	359	341	367	391	400	410	400	404	400	390	403
17	398	405	403	398	383	374	377	379	384	403	416	408	395	384	373	348	350	387	404	407	424	400	404	410	392
18	394	402	407	402	391	389	361	404	388	359	398	397	383	360	347	368	382	392	406	418	422	410	391	399	390
19	370	383	400	404	398	396	393	390	398	405	372	359	388	403	376	373	377	383	398	409	421	433	392	381	392
20	368	390	399	395	414	374	375	375	402	410	392	362	393	375	368	365	354	374	397	393	405	397	402	405	387
21	399	385	404	414	400	397	400	402	395	400	403	401	393	385	380	379	385	394	407	407	407	405	402	406	398
22 Q	408	405	401	400	400	407	404	402	402	405	405	405	398	386	374	370	383	396	406	406	416	409	412	412	401
23	416	415	414	412	410	414	400	390	394	409	409	407	404	394	381	368	379	408	424	430	397	445	394	384	404
24 D	404	380	397	400	398	402	402	405	403	404	408	408	393	390	388	373	376	384	400	423	407	378	395	391	396
25	383	390	400	410	391	393	396	374	376	398	407	397	384	367	357	332	362	394	407	417	417	395	385	369	388
26	399	397	402	409	400	410	402	407	406	407	407	402	394	381	371	373	388	400	412	398	397	416	401	405	399
27	401	400	400	410	411	408	410	407	398	387	402	401	396	385	373	369	374	390	401	412	419	414	409	411	400
28	410	410	411	408	407	406	411	408	411	414	412	401	389	382	376	369	374	393	407	416	412	415	405	407	402
29 Q	412	414	412	410	411	410	412	414	414	414	415	409	399	387	376	369	374	388	402	411	412	413	420	422	405
30	421	419	417	417	423	416	419	417	416	415	416	413	407	392	383	377	389	404	417	420	409	389	409	416	409
31																									
Mean	399	401	404	405	403	395	387	387	388	393	399	394	388	378	368	364	374	389	404	413	415	413	409	409	395

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 36, Agincourt.

September, 1950.

Day	Horizontal Intensity					Declination					Vertical Intensity											
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range	Maximum 7° West +		Minimum 7° West +		Range	Maximum 56,000 γ +		Minimum 56,000 γ +		Range							
	h.	m.	γ	h.	m.	γ	h.	m.	'	h.	m.	'	h.	m.	γ	γ						
1 Q	21	32	442	14	33	364	78	17	52	33.0	13	10	15.1	17.9	11	10	228	15	57	212	16	
2	20	3	450	14	18	378	72	17	35	32.8	12	55	14.8	18.0	20	2	230	4	57	195	35	
3 D	23	52	742	7	28	327	415	19	8	39.6	23	56	-18.6	58.2	23	7	544	7	35	66	478	
4 D	0	1	646	8	56	115	531	8	34	43.2	0	10	-10.1	53.3	0	2	446	8	57	-20	466	
5 D	21	54	487	9	8	72	415	9	14	56.4	0	53	-17.5	73.9	1	9	363	8	58	-65	428	
6 D	2	23	433	6	51	227	206	10	44	46.9	1	38	-4.3	51.2	1	30	319	5	59	22	297	
7	20	50	427	14	34	349	78	7	4	40.4	0	40	11.3	29.1	0	1	275	7	34	180	95	
8	3	45	441	8	49	262	179	6	17	56.0	3	40	10.2	45.8	23	17	316	6	3	20	296	
9	21	44	425	16	8	352	73	18	2	32.3	2	0	-7.7	40.0	0	1	273	2	54	184	89	
10	21	55	422	15	50	346	76	18	39	37.7	0	58	-9.2	46.9	20	0	261	1	38	197	64	
11	3	45	436	14	33	350	86	17	28	32.9	3	28	-16.8	49.7	21	46	248	3	52	130	118	
12	20	17	421	13	52	368	53	16	56	32.8	9	4	8.3	24.5	20	17	238	7	22	189	49	
13	20	37	448	14	42	369	79	19	55	35.2	12	24	15.0	20.2	20	35	295	5	3	206	89	
14 Q	21	10	424	14	45	352	72	17	51	33.7	12	33	14.6	19.1	19	49	243	14	57	225	18	
15 Q	22	4	431	14	16	355	76	17	37	32.4	12	43	13.9	18.5	17	48	242	23	20	222	20	
16	10	26	443	15	14	318	125	16	10	36.4	12	2	9.1	27.3	3	11	245	15	13	203	42	
17	20	37	438	16	19	328	110	17	13	42.5	13	18	10.6	31.9	23	59	315	7	3	138	177	
18	21	6	441	6	24	328	113	6	38	46.1	0	8	-1.0	47.1	0	1	315	6	48	86	229	
19	21	1	441	11	30	342	99	12	3	38.3	0	53	7.1	31.2	23	57	334	12	27	147	187	
20	4	32	429	11	20	338	91	7	37	34.6	0	37	0.3	34.3	0	22	373	4	50	96	277	
21	3	33	433	1	5	372	61	3	7	33.8	1	10	17.0	16.8	1	10	239	3	25	170	69	
22 Q	20	42	424	15	15	368	56	16	13	28.2	11	48	18.5	9.7	20	43	231	5	35	216	15	
23	22	5	455	15	38	358	97	11	43	40.1	7	57	9.1	31.0	22	48	297	12	7	147	150	
24 D	19	40	442	21	41	338	104	21	0	36.1	2	51	-18.8	54.9	21	9	333	2	19	204	129	
25	3	50	443	15	58	313	130	16	56	38.6	23	57	2.4	36.2	21	26	304	8	0	124	180	
26	21	22	431	15	12	365	66	19	58	34.0	0	1	9.2	24.8	20	37	259	6	2	203	56	
27	20	2	424	15	45	368	56	17	24	31.7	8	28	14.0	17.7	1	50	240	7	53	189	51	
28	19	42	424	16	15	366	58	7	37	30.1	13	55	16.1	14.0	21	5	233	7	53	206	27	
29 Q	23	7	424	15	34	367	57	17	50	28.7	13	7	15.2	13.5	0	5	230	16	31	213	17	
30	19	44	436	16	0	374	62	21	14	32.8	12	48	14.2	18.6	20	35	242	15	57	209	33	
31																						
Mean			453			327	126			37.2				4.7			290			150	140	
No. days			30			30	30			30				30			30			30	30	

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes, Universal Time

Table 39. Agincourt. (Z.)

56,000 γ +

October, 1950.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 D	245	267	219	174	245	193	159	138	132	130	183	177	156	150	207	232	238	245	256	257	250	243	237	225	207
2 D	244	239	227	121	173	224	232	218	101	41	57	105	189	229	224	228	266	265	301	307	296	324	326	292	218
3	272	262	236	157	157	127	141	120	163	146	165	192	209	224	230	233	236	246	256	281	270	249	256	252	212
4	248	252	225	186	153	137	68	104	140	154	214	225	220	235	233	236	255	249	285	286	277	250	250	245	214
5	242	224	218	214	209	154	97	84	107	154	156	162	195	221	226	231	238	245	250	252	252	271	262	248	204
6	243	242	236	232	230	220	149	156	162	180	191	214	220	223	222	222	225	242	248	245	244	248	265	249	221
7	242	238	248	249	227	195	143	167	174	196	212	230	229	228	228	225	225	241	245	254	271	261	245	243	226
8	250	256	248	239	227	216	225	230	224	225	225	229	236	236	233	230	230	227	232	232	233	232	232	231	232
9	231	227	230	229	231	233	231	230	225	180	173	215	223	226	224	218	218	226	233	236	233	232	230	229	223
10 Q	230	232	230	230	229	227	228	228	227	225	227	227	229	226	224	219	216	220	224	227	228	229	227	229	227
11	229	227	227	226	226	226	225	226	225	226	226	226	227	226	222	219	221	224	225	221	219	220	219	222	224
12	224	230	225	219	198	159	212	227	227	223	224	225	222	219	219	219	219	221	228	238	241	242	238	222	
13	235	231	229	224	230	230	218	190	191	213	220	223	222	219	216	212	213	218	222	224	227	233	235	233	221
14 D	233	246	221	236	254	235	227	223	211	196	197	203	197	199	201	200	219	242	241	239	255	304	269	292	231
15	302	294	259	249	242	227	210	178	189	221	230	232	233	234	236	233	236	240	239	241	241	242	238	238	237
16	240	244	248	236	235	196	96	153	159	105	55	96	176	186	207	219	229	241	261	259	255	250	248	251	202
17	250	255	238	219	224	225	218	203	141	183	217	224	221	215	208	214	233	230	244	250	254	259	251	249	226
18	244	238	227	214	204	204	207	192	156	149	179	192	218	223	220	220	220	220	219	223	228	230	230	230	212
19 Q	227	226	229	225	225	226	225	222	219	220	224	227	226	227	225	221	220	221	226	230	233	232	230	229	226
20	228	226	225	227	226	226	226	226	225	220	222	225	227	226	226	222	225	230	232	235	231	230	227	227	227
21 Q	224	221	221	220	221	221	222	222	221	220	220	221	222	219	219	215	214	217	221	226	225	224	222	222	221
22	220	220	220	220	220	222	221	220	216	213	213	217	218	217	213	212	210	216	223	225	227	230	228	237	220
23	263	261	250	248	247	236	230	225	225	221	222	224	224	221	218	215	212	214	216	219	226	230	237	231	230
24	236	230	229	227	222	212	218	219	216	207	215	220	221	214	220	218	216	216	219	220	225	225	225	225	221
25 Q	225	225	224	220	221	221	222	221	221	220	221	222	225	222	217	212	210	213	216	221	224	222	224	226	221
26	225	220	222	223	226	225	222	220	213	212	212	220	223	220	218	212	212	219	224	227	229	225	224	223	221
27 Q	220	220	220	220	220	220	217	216	220	219	219	220	221	221	219	216	217	219	219	220	219	218	216	217	219
28 D	216	219	218	174	219	216	214	201	70	2	4	112	136	201	223	213	213	236	286	378	443	338	376	298	217
29 D	319	281	260	248	239	177	143	186	112	186	207	213	230	224	242	260	267	255	242	248	266	295	309	318	239
30	315	250	200	186	202	160	171	214	177	168	207	227	234	237	239	245	244	259	298	312	306	282	257	266	236
31	249	242	192	227	233	180	156	191	154	141	179	167	177	214	236	236	243	256	260	284	267	281	261	250	220
Mean	244	240	229	217	220	205	193	195	182	181	191	204	213	219	222	223	227	232	241	249	251	250	248	244	222

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 40. Agincourt.

October, 1950.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ	Maximum 7° West +		Minimum 7° West +		Range	Maximum 56,000 γ +		Minimum 56,000 γ +		Range
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		h. m.	γ	h. m.	γ	
1 D	3 36	433	6 12	-393	826	6 20	70.4	3 40	-20.1	90.5	1 36	291	6 7	-159	450
2 D	3 27	464	8 55	190	274	9 6	54.3	23 22	-14.1	68.4	23 24	420	9 0	-56	476
3	3 27	427	3 42	221	206	3 38	77.1	4 5	7.6	69.5	19 36	307	7 26	83	224
4	2 15	421	6 49	245	176	4 42	40.1	0 18	-12.3	52.4	20 5	322	6 49	29	293
5	20 37	416	8 9	181	235	8 10	42.2	23 0	-4.5	46.7	21 13	279	8 0	-3	282
6	9 27	423	22 50	346	77	6 20	42.9	22 58	8.3	34.6	21 13	269	6 33	115	154
7	19 27	422	6 8	333	89	16 8	34.2	2 6	3.5	30.7	20 51	284	7 3	116	168
8	22 52	416	0 45	347	69	17 53	31.2	1 40	14.2	17.0	0 55	257	5 32	208	49
9	21 10	419	15 14	369	50	9 20	36.5	12 15	14.4	22.1	2 35	236	10 32	154	82
10 Q	22 51	421	14 48	371	50	17 30	29.3	13 22	16.0	13.3	21 25	232	16 11	214	18
11	19 24	441	14 22	390	51	17 55	27.0	12 35	15.8	11.2	1 58	229	15 12	217	12
12	5 7	427	4 10	359	68	5 20	44.4	3 53	12.8	31.6	22 22	244	5 12	108	136
13	21 42	424	16 43	384	40	17 50	31.5	3 34	12.4	19.1	21 50	238	8 13	177	61
14 D	5 59	435	16 7	335	100	16 54	39.6	1 50	-5.8	45.4	21 24	334	10 6	177	157
15	23 10	412	2 43	323	89	17 40	32.2	2 28	-20.0	52.2	2 19	360	8 5	168	192
16	6 40	443	10 40	207	236	6 20	48.8	0 27	8.9	39.9	8 26	271	10 30	24	247
17	7 17	410	15 46	347	63	8 18	39.3	2 20	8.8	30.5	21 46	265	8 38	122	143
18	11 3	418	10 30	369	49	10 41	36.5	1 33	13.6	33.9	0 4	245	8 46	137	108
19 Q	21 45	415	16 43	367	48	18 21	27.7	3 14	17.5	10.2	20 35	233	9 11	216	17
20	21 5	428	16 51	378	50	18 50	29.5	14 32	16.2	13.3	19 3	236	9 35	215	21
21 Q	20 0	431	16 12	379	52	17 40	28.9	14 4	16.6	12.3	19 55	229	16 10	212	17
22	20 4	456	14 31	386	70	17 50	29.1	13 0	15.0	14.1	23 59	248	15 4	208	40
23	20 20	432	13 19	383	49	0 8	28.6	4 34	11.9	16.7	1 0	270	16 17	209	61
24	22 22	422	14 17	379	43	9 7	28.0	13 30	15.3	12.7	0 12	241	9 20	198	43
25 Q	22 20	425	15 22	376	49	18 20	27.4	13 28	17.1	10.3	1 5	227	16 0	209	18
26	2 36	425	15 15	385	40	19 20	28.4	13 12	17.3	11.1	5 52	230	9 6	206	24
27 Q	20 15	437	14 18	384	53	18 24	28.7	13 33	16.7	12.0	1 6	222	21 43	214	8
28 D	20 15	671	10 16	200	471	10 18	59.0	23 14	-19.5	78.5	20 13	521	10 15	-102	623
29 D	0 15	438	8 31	237	201	8 44	57.9	2 50	-0.6	58.5	0 7	507	8 33	134	373
30	0 52	432	1 58	222	210	2 30	43.9	3 27	-2.5	46.4	0 2	351	2 12	116	235
31	6 13	437	10 28	310	127	12 3	49.0	2 0	-11.6	60.6	19 25	295	10 41	106	189
Mean		436		300	136		39.5		5.5	34.0		287		128	159
No. days		31		31	31		31		31	31		31		31	31

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 41. Agincourt. (H.)

15,000 γ +

November, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	393	395	411	388	387	387	372	385	395	400	376	342	376	360	334	291	335	369	372	388	395	402	397	386	377
2	390	385	403	395	395	410	403	402	385	397	387	400	397	379	366	356	382	390	392	398	402	405	403	399	392
3	397	402	393	395	397	395	398	398	397	401	407	407	401	388	381	372	375	382	393	404	407	404	403	401	396
4 D	397	390	378	367	350	341	326	293	190	361	385	383	361	349	344	330	351	372	395	394	389	388	392	384	359
5	388	388	382	382	386	383	388	395	393	388	392	403	392	386	388	386	384	386	387	394	405	395	396	401	390
6 Q	396	400	400	397	401	397	400	404	405	406	412	412	402	393	387	387	394	398	402	406	410	410	412	402	402
7 Q	415	414	412	410	410	410	412	413	415	417	416	414	406	397	391	391	397	405	415	419	423	419	422	422	411
8	424	420	405	402	408	413	415	415	417	419	420	419	413	403	396	392	398	410	420	428	429	427	424	424	414
9	423	419	419	407	414	415	416	419	422	418	417	414	410	401	396	396	403	414	426	438	430	432	430	434	417
10	432	431	422	413	405	409	406	376	345	349	373	388	364	360	355	376	373	367	372	395	403	405	396	382	387
11	381	382	380	377	378	392	386	387	384	392	402	413	404	393	388	386	383	388	400	405	413	411	408	403	393
12	398	401	394	384	388	383	390	385	368	402	409	410	406	397	380	372	391	401	404	404	398	403	388	398	394
13	391	404	401	386	389	399	373	398	403	403	407	401	388	390	389	383	388	394	397	388	388	393	401	403	394
14	394	388	396	402	396	400	400	407	410	411	411	408	400	385	367	361	370	386	402	406	401	412	414	419	398
15 Q	419	417	414	411	411	410	413	413	417	420	420	416	407	395	389	381	385	389	399	407	417	424	433	428	410
16	424	419	417	416	413	415	418	419	420	422	422	422	419	409	401	392	392	398	411	411	424	427	437	433	416
17	427	423	422	420	417	414	407	405	417	422	422	417	417	408	405	404	404	401	408	412	408	408	415	417	413
18	419	419	417	415	414	414	416	419	420	420	419	416	411	405	392	395	399	403	411	383	398	408	413	410	410
19 Q	411	408	410	410	413	416	405	408	407	411	411	409	404	398	394	391	393	396	405	413	417	420	422	421	408
20 Q	419	420	424	419	421	421	421	419	421	422	421	419	414	404	399	394	397	399	406	413	416	419	419	419	414
21	419	420	421	419	418	417	419	419	419	419	417	416	413	409	404	401	403	409	416	423	419	420	409	411	415
22	413	409	409	409	410	413	415	410	416	419	419	419	416	404	413	397	393	419	420	409	411	424	392	391	410
23	401	407	404	404	402	399	403	405	403	404	405	405	401	395	391	393	399	403	409	404	411	413	411	416	404
24	418	416	414	410	411	411	413	414	414	415	419	414	414	408	401	401	409	396	399	411	414	416	414	395	411
25 D	374	384	395	384	358	376	378	376	383	381	381	374	386	408	390	370	357	386	402	416	427	412	409	410	388
26 D	409	413	365	423	400	411	410	409	374	306	376	411	399	398	386	387	371	358	386	396	384	369	380	386	388
27 D	389	399	379	401	400	384	349	385	395	394	380	368	411	391	357	366	369	376	390	380	400	391	390	400	385
28	403	400	383	388	378	371	396	399	381	376	412	407	384	368	394	390	376	381	382	394	389	374	380	389	387
29	394	399	384	400	400	397	396	401	394	396	410	411	401	389	395	391	384	378	378	400	401	394	409	404	396
30	405	406	396	405	404	398	405	411	404	399	414	416	409	401	395	394	391	381	383	390	390	404	417	412	401
31																									
Mean	405	406	402	401	399	400	398	400	394	400	405	405	401	392	386	381	385	391	399	404	407	408	408	407	399

MAGNETIC DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 42. Agincourt. (D.) West.

7° + . . .'

November, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	19.0	16.0	10.5	17.2	19.4	20.1	29.4	36.4	24.8	22.9	26.9	50.6	49.2	35.4	29.3	31.1	38.7	32.4	27.5	23.5	25.2	23.5	20.0	15.8	26.8
2	18.1	18.4	19.0	19.7	20.3	23.4	22.1	22.5	26.5	35.3	23.6	26.2	23.5	23.2	26.6	26.0	25.5	25.5	26.0	25.3	24.0	23.4	22.8	22.8	23.7
3	22.5	21.6	24.5	13.4	18.7	21.4	22.1	23.0	25.3	23.5	20.1	18.9	17.5	17.1	17.7	21.8	24.6	27.3	27.5	26.3	24.0	22.9	21.6	21.8	21.9
4 D	21.2	20.9	19.7	20.0	14.4	17.2	28.0	18.8	51.6	16.9	31.0	37.6	36.9	36.6	30.8	29.9	33.5	31.6	27.6	24.4	23.5	22.8	22.4	23.5	26.5
5	15.8	20.8	20.7	20.8	22.1	24.5	25.7	23.0	20.8	25.0	25.1	20.5	19.4	18.9	20.5	23.0	25.6	27.1	27.1	24.9	23.3	24.0	23.3	24.4	22.7
6 Q	22.9	21.7	21.4	22.2	22.5	22.7	23.6	23.5	21.6	22.0	20.7	19.9	20.2	19.9	21.4	23.5	25.1	25.4	25.1	24.8	24.4	23.6	23.1	22.5	22.6
7 Q	22.1	21.7	21.4	21.7	22.0	21.8	21.7	21.7	21.4	21.2	20.4	20.2	19.8	19.8	21.6	24.5	26.3	26.9	26.3	24.5	23.6	23.5	23.1	22.7	22.5
8	22.0	22.8	18.9	21.5	21.5	22.1	21.8	21.5	20.8	19.9	19.4	19.2	17.8	16.8	17.4	21.2	24.6	27.2	27.7	25.2	23.7	23.3	23.2	22.1	21.7
9	21.8	21.4	20.7	18.0	22.5	21.8	21.8	21.4	20.8	20.4	20.4	20.3	19.2	18.5	19.1	22.7	24.2	25.8	27.2	26.3	25.4	25.5	25.7	23.9	22.3
10	23.6	22.4	22.2	18.5	21.8	21.8	22.7	19.5	18.5	16.1	16.1	26.4	27.3	29.5	29.5	28.5	24.6	29.5	31.0	29.5	27.0	25.4	25.8	23.1	24.2
11	12.1	17.9	15.3	18.5	19.1	23.7	22.7	19.5	24.5	19.8	18.5	19.0	19.9	21.9	23.8	26.6	26.6	27.4	26.7	25.8	24.3	22.8	23.2	22.7	21.7
12	18.9	15.4	16.3	18.6	20.8	22.3	27.2	33.6	31.8	17.0	15.9	16.3	18.0	19.0	23.2	29.1	29.6	29.4	28.5	27.7	25.7	25.1	23.1	20.2	23.0
13	19.4	20.1	20.5	18.1	22.5	29.5	18.1	22.6	21.2	19.9	19.1	17.7	22.2	28.2	27.2	25.8	25.3	27.0	28.6	25.1	25.0	25.9	20.6	16.9	22.7
14	20.0	17.6	20.5	20.8	19.9	21.7	25.5	23.2	22.6	20.6	20.6	19.9	18.8	18.1	20.0	25.5	28.9	30.5	30.3	28.1	25.9	24.6	22.6	20.9	22.7
15 Q	20.4	20.9	21.3	21.6	21.5	21.6	21.6	21.5	21.4	20.0	19.5	19.5	19.5	17.9	19.5	21.7	24.6	26.3	26.7	26.0	25.1	24.3	22.3	22.3	21.9
16	20.9	20.5	20.8	21.5	21.3	21.4	21.5	21.3	20.9	20.8	20.8	20.5	19.1	17.7	17.2	20.1	22.8	23.9	25.2	25.8	25.2	24.0	23.6	24.6	21.7
17	23.4	20.5	19.6	21.4	21.7	20.9	19.5	22.5	20.7	19.5	18.8	17.5	18.6	17.6	20.5	22.5	24.3	25.5	26.4	26.6	24.8	23.6	25.8	22.2	21.8
18	20.6	20.0	20.7	21.3	21.2	21.9	21.8	21.5	21.0	20.5	20.2	19.3	20.0	17.9	19.4	21.7	25.3	26.7	27.7	29.6	29.4	24.7	23.6	21.5	22.4
19 Q	21.4	18.9	20.9	21.0	19.0	19.8	21.4	21.2	21.5	20.5	20.1	20.6	20.5	20.5	20.9	22.7	24.6	25.3	25.4	24.3	23.6	23.1	22.5	21.8	21.7
20 Q	21.8	21.5	20.6	20.0	21.5	21.8	21.4	20.9	20.5	20.4	20.4	20.5	19.9	18.9	18.7	21.7	23.6	25.4	25.7	25.0	24.3	23.3	22.7	21.9	21.7
21	21.7	21.2	20.9	20.9	21.0	20.9	21.3	20.9	20.8	20.5	19.9	19.9	19.5	19.0	19.1	21.7	24.0	25.2	25.2	24.6	24.1	24.0	20.8	23.4	21.7
22	20.8	19.7	20.5	20.5	20.6	21.3	21.4	20.5	19.9	19.5	19.0	18.8	18.2	18.2	21.7	21.3	31.3	34.2	28.7	26.1	26.1	25.0	23.1	26.7	22.6
23	21.8	20.4	21.2	21.7	21.5	21.2	20.6	20.6	20.3	20.8	19.5	19.5	19.1	18.9	20.0	22.2	23.6	24.9	25.5	24.6	24.8	24.3	21.9	21.1	21.6
24	20.9	20.5	20.5	21.4	21.5	21.8	21.9	20.6	20.6	19.5	19.2	19.5	19.2	19.1	19.3	21.5	23.9	26.4	30.8	33.2	29.6	26.4	23.3	23.2	22.6
25 D	5.2	17.0	18.4	18.5	23.0	35.1	24.5	17.9	22.7	26.4	27.1	33.2	50.4	17.3	20.9	23.4	24.1	28.8	30.0	28.6	27.3	23.6	21.7	20.8	24.4
26 D	20.0	19.5	15.1	19.9	21.3	22.7	21.9	20.8	21.4	44.5	48.2	18.7	35.7	29.5	29.6	33.7	28.5	34.8	29.9	26.4	13.1	18.7	20.8	17.2	25.5
27 D	6.3	12.6	14.8	26.8	19.0	21.4	48.2	24.0	20.6	21.7	23.6	38.4	23.7	23.1	23.6	27.0	28.8	26.8	26.1	26.1	22.6	19.9	18.7	20.5	23.6
28	7.2	10.4	11.5	15.9	18.1	28.1	23.7	22.6	21.5	29.0	21.0	20.5	30.0	35.5	24.9	22.2	24.1	26.0	25.8	24.0	15.5	24.6	25.0	18.1	21.9
29	11.5	17.3	19.2	21.5	22.2	22.7	25.3	25.2	26.6	25.4	23.4	20.1	24.0	28.2	27.2	24.6	26.1	27.8	27.8	26.4	24.6	19.1	20.6	22.3	23.3
30	24.6	26.0	27.9	27.6	21.5	20.5	21.5	22.5	26.1	26.5	21.7	20.0	19.7	18.6	18.3	20.8	23.2	26.8	28.6	27.7	25.5	22.3	22.7	22.3	23.5
31																									
Mean	19.0	19.5	19.5	20.3	20.8	22.6	23.7	22.6	23.3	22.8	22.0	22.6	23.6	22.0	22.4	24.3	26.2	27.6	27.5	26.2	24.4	23.6	22.6	21.8	22.9

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
 Mean values for periods of sixty minutes, Universal Time

Table 43. Agincourt. (Z.)

56,000 γ +

November, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	243	236	213	191	226	201	144	159	203	226	203	157	171	197	220	246	250	253	268	272	253	247	248	248	220
2	247	246	227	231	232	221	223	215	194	174	194	213	219	226	225	232	236	232	231	233	238	238	238	237	225
3	238	230	228	222	226	230	230	227	214	222	225	230	230	230	230	227	231	232	235	233	233	233	232	232	229
4 D	230	233	236	223	185	90	33	1	2	68	98	109	150	172	198	217	244	271	261	250	243	240	240	242	177
5	241	237	242	236	232	230	227	230	227	221	213	226	230	233	230	227	230	233	237	239	240	240	240	243	233
6 Q	243	237	233	230	230	230	228	225	227	232	230	227	227	227	224	220	222	222	226	229	230	230	230	230	229
7 Q	230	230	230	230	230	226	227	227	227	227	226	226	229	229	227	228	229	229	228	227	227	225	227	227	228
8	227	229	236	238	236	233	230	230	227	226	226	226	227	227	226	224	225	226	227	229	227	224	225	226	228
9	226	227	227	231	232	229	227	227	226	225	225	225	226	225	220	218	218	220	224	225	224	225	227	231	225
10	233	239	248	253	238	227	213	171	104	124	154	151	174	191	189	209	225	231	257	251	245	242	249	260	212
11	239	248	243	236	236	230	215	207	194	191	207	203	207	208	213	214	222	227	233	234	236	232	232	232	222
12	242	231	222	220	200	210	208	233	143	191	220	225	221	222	219	224	236	236	236	238	238	238	243	245	222
13	249	245	236	227	225	201	191	220	230	230	226	220	220	212	207	214	219	224	229	237	242	242	242	237	226
14	236	233	236	230	230	225	225	227	230	228	227	226	227	225	221	225	227	230	232	233	233	236	231	227	229
15 Q	227	226	225	225	225	225	225	225	225	225	222	222	223	223	222	221	225	226	230	232	232	230	230	226	226
16	226	226	226	227	227	226	226	225	225	222	223	222	223	222	219	215	215	216	219	225	226	225	227	232	224
17	237	234	228	225	226	221	221	219	220	225	221	219	221	220	217	212	212	216	218	224	233	233	229	229	223
18	224	221	222	218	220	220	222	220	220	219	219	218	219	219	218	219	221	226	232	245	241	235	233	230	224
19 Q	232	230	227	227	227	221	226	226	225	224	224	223	225	224	222	221	221	222	225	227	226	226	225	222	225
20 Q	223	221	223	220	223	223	223	222	222	223	222	221	224	224	223	222	224	227	229	230	228	227	225	225	224
21	224	222	222	222	222	220	220	220	219	219	219	219	219	218	216	213	213	215	219	222	224	225	227	230	220
22	230	227	226	225	225	224	224	224	225	223	221	219	220	215	213	207	212	214	220	220	225	229	259	307	226
23	252	232	227	227	227	227	227	225	225	225	224	225	226	224	220	219	221	221	222	222	226	227	227	226	226
24	225	222	222	223	224	224	223	222	221	221	220	221	220	218	214	213	215	225	238	236	236	236	235	250	225
25 D	325	269	237	226	171	114	154	192	221	214	196	171	136	192	206	212	227	231	226	228	229	227	230	230	211
26 D	230	230	242	199	214	227	229	222	176	35	85	171	167	181	199	218	226	239	250	262	269	262	248	245	209
27 D	236	229	230	172	222	203	145	167	209	216	189	184	200	208	227	229	229	242	238	247	240	239	239	236	216
28	230	221	222	221	204	154	189	206	183	194	193	189	200	203	212	216	222	233	238	261	295	271	263	249	220
29	241	234	230	208	204	214	222	223	209	208	207	212	214	213	210	207	206	213	226	234	238	246	238	236	221
30	233	230	230	221	216	217	215	216	216	212	209	216	220	220	217	212	213	218	228	234	239	239	230	227	222
31																									
Mean	237	232	230	223	221	211	207	208	203	203	206	207	211	215	217	219	224	228	232	236	237	236	236	237	222

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 44. Agincourt.

November, 1950.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	15,000 γ +		15,000 γ +			7° West +		7° West +			56,000 γ +		56,000 γ +		
h. m.	γ	h. m.	γ	γ	h. m.	'	h. m.	'	'	h. m.	γ	h. m.	γ	γ	
1 D	2 57	433	15 41	273	160	11 43	61.7	2 33	1.4	60.3	18 45	286	6 56	124	162
2	5 32	428	15 43	354	74	9 22	38.7	2 3	10.5	28.2	0 1	250	9 7	168	82
3	1 44	411	15 34	370	41	2 44	34.2	3 22	9.9	24.3	1 1	239	8 38	205	34
4 D	10 48	403	8 27	93	310	8 33	73.8	5 18	3.0	70.8	17 26	281	8 30	-90	371
5	20 37	411	17 28	379	32	10 1	29.5	0 35	8.7	20.8	0 24	250	10 26	207	43
6 Q	10 49	414	15 27	382	32	6 58	26.3	13 35	19.4	6.9	0 15	245	15 55	220	25
7 Q	20 45	427	14 30	387	40	17 50	27.1	13 4	19.4	7.7	17 0	230	21 6	224	6
8	21 30	432	14 55	391	41	17 48	28.5	2 36	14.3	14.2	2 32	239	21 34	222	17
9	19 32	442	15 20	393	49	18 15	27.3	3 18	16.4	10.9	3 20	231	16 5	216	15
10	0 2	440	9 14	310	130	11 10	34.3	12 4	10.9	23.4	19 0	267	9 2	48	219
11	11 33	417	0 22	356	61	8 13	28.2	0 22	-7.7	35.9	0 14	290	8 41	178	112
12	11 7	417	8 14	324	93	7 58	53.6	1 41	10.9	42.7	22 33	249	8 7	150	99
13	4 54	416	4 17	365	51	13 13	31.8	23 11	10.6	21.2	0 29	254	6 16	185	69
14	23 32	424	15 46	357	67	17 22	31.3	1 40	15.4	15.9	2 28	238	14 20	219	19
15 Q	22 16	439	15 22	375	64	17 54	26.8	13 32	17.3	9.5	20 40	233	15 30	219	14
16	22 32	440	15 52	386	54	18 52	26.7	14 24	16.8	9.9	23 59	236	15 50	213	23
17	0 26	431	20 58	392	39	20 5	28.2	11 33	16.4	11.8	0 30	238	15 40	210	28
18	18 22	425	19 22	365	60	19 38	31.4	14 11	14.7	16.7	19 37	254	15 50	215	39
19 Q	5 0	427	15 47	389	38	17 50	25.9	5 0	12.4	13.5	0 45	234	5 15	216	18
20 Q	4 46	424	15 22	393	31	17 49	26.4	13 24	17.9	8.5	19 30	232	3 0	220	12
21	19 48	429	15 22	399	30	17 55	25.8	13 26	18.7	7.1	23 40	232	16 5	212	20
22	19 5	442	22 44	362	80	16 57	38.7	13 33	15.9	22.8	23 15	345	16 0	203	142
23	23 51	419	14 42	388	31	17 44	25.8	13 18	17.9	7.9	0 1	277	15 3	219	58
24	22 33	425	23 45	378	47	19 20	35.2	12 43	17.5	17.7	23 59	304	17 0	212	92
25 D	20 38	438	0 28	329	109	12 13	61.5	0 35	-29.3	90.8	0 18	378	5 13	78	300
26 D	11 40	440	9 45	260	180	10 11	71.0	20 32	4.5	66.5	20 18	279	9 26	-3	282
27 D	3 12	464	6 43	319	145	3 21	52.3	2 55	0.8	51.5	19 55	257	6 30	106	151
28	11 2	435	13 25	339	96	5 45	39.1	0 27	-3.7	42.8	20 32	201	5 34	130	71
29	20 27	429	17 32	365	64	13 59	31.2	0 32	3.8	27.4	0 28	253	4 10	194	59
30	1 36	420	17 44	375	45	8 57	30.0	1 29	8.8	21.2	20 57	245	3 45	197	48
31															
Mean		428		352	76		36.7		9.8	26.9		258		170	88
No. days		30		30	30		30		30	30		30		30	30

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 45. Agincourt. (H.)

15,000 γ +

December, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	414	412	412	414	407	406	390	409	409	409	410	411	411	404	399	391	389	390	396	397	409	414	419	421	406
2	417	414	409	397	395	410	407	407	410	414	415	416	420	414	407	389	388	396	401	407	420	417	425	420	409
3	424	416	410	404	409	416	421	422	420	420	421	422	424	415	405	394	392	395	402	416	420	416	422	425	414
4 Q	424	421	422	416	410	416	417	416	417	421	421	423	420	412	406	405	406	404	411	414	416	424	425	424	416
5	422	418	421	421	422	422	421	422	425	427	430	433	433	427	424	418	421	416	407	418	422	422	423	425	422
6	430	422	416	419	420	420	422	423	409	399	420	408	429	410	404	399	401	405	409	410	417	418	416	415	414
7	418	402	394	406	416	418	416	423	423	426	425	427	428	421	416	408	406	408	406	408	406	417	418	420	415
8	419	415	415	419	421	421	418	422	421	431	432	436	437	433	422	407	395	385	392	392	408	410	410	404	416
9	403	410	408	402	408	404	403	408	407	408	418	418	415	407	401	394	392	396	401	409	414	416	419	419	408
10	415	406	407	414	419	416	412	418	413	410	417	421	417	406	395	388	391	396	403	403	410	414	416	415	409
11 Q	414	409	408	410	416	414	415	413	416	419	421	425	422	413	403	392	387	390	395	405	413	416	418	417	410
12	416	413	411	411	415	431	429	436	422	419	416	422	421	410	407	405	402	417	403	397	387	378	361	372	408
13 D	360	354	364	350	334	369	367	361	356	387	390	403	412	393	386	369	367	362	357	372	396	382	394	380	374
14 D	397	361	359	356	385	386	387	390	395	398	401	397	390	385	377	377	377	379	390	367	398	391	389	384	384
15	393	394	398	406	396	399	395	396	399	405	408	406	399	397	397	380	376	375	367	379	403	407	403	404	395
16	399	396	397	397	416	395	400	397	401	397	392	390	398	399	393	383	376	376	380	388	396	402	407	402	395
17	402	402	400	395	397	399	397	396	395	395	407	407	407	403	396	389	386	386	386	392	403	411	418	415	399
18	403	409	406	405	403	403	403	404	405	407	407	411	407	402	398	392	382	377	393	390	410	413	411	409	402
19	400	408	403	403	402	395	403	400	401	398	397	403	403	396	396	392	388	387	387	408	397	408	411	408	400
20	405	405	403	405	402	405	402	400	400	402	404	410	411	410	405	404	396	395	402	396	396	413	402	388	403
21 Q	410	411	411	407	406	402	402	403	406	407	406	409	406	402	395	386	385	388	395	400	405	408	411	411	403
22 D	410	408	405	400	400	405	409	410	411	415	418	422	427	421	403	378	380	372	361	393	379	378	378	385	399
23 D	373	357	348	360	368	351	334	329	320	338	397	397	391	381	391	380	365	372	380	386	387	382	386	382	369
24 D	394	393	375	375	392	387	387	378	378	390	396	396	391	394	396	358	290	356	375	392	386	383	382	370	380
25	381	370	382	418	386	378	388	382	365	398	400	391	373	386	377	360	377	387	387	367	382	382	378	387	383
26	393	386	391	382	387	381	363	355	390	370	411	411	403	393	388	378	383	388	391	378	386	396	400	396	388
27	384	371	378	383	404	397	393	388	374	398	408	394	399	398	388	370	380	380	380	383	389	383	380	400	388
28	398	388	392	396	397	394	389	391	393	398	399	403	401	395	392	396	394	396	402	411	411	411	411	411	399
29	412	409	406	407	405	401	405	401	404	403	409	409	408	401	393	389	389	395	404	409	414	419	418	409	405
30	408	417	414	415	413	413	413	412	414	414	417	414	412	406	393	385	388	396	411	422	427	416	420	422	411
31 Q	422	422	418	418	416	418	413	413	417	417	415	414	416	408	398	395	398	409	419	428	430	430	430	429	416
Mean	405	401	399	400	402	402	401	401	401	405	410	411	411	405	398	389	385	389	393	398	404	406	406	406	401

AGINCOURT MAGNETIC OBSERVATORY, 1950-1951

MAGNETIC DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 46. Agincourt. (D.) West.

7° + . . . '

December, 1950.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 Q	21.5	20.5	20.6	20.9	21.6	18.7	23.5	23.7	20.0	19.8	19.8	19.9	19.9	20.0	18.6	21.4	24.6	26.5	26.5	25.0	23.9	23.3	21.8	20.9	21.8
2	20.6	20.8	20.4	19.1	24.4	22.4	20.7	21.9	22.4	21.4	21.4	20.6	21.3	17.8	17.4	19.5	23.7	26.3	27.2	26.2	24.7	22.8	21.3	20.9	21.8
3	20.5	20.5	20.0	18.7	19.3	20.6	23.7	21.8	21.0	22.7	21.5	20.6	18.7	17.8	17.8	19.7	21.6	24.2	24.7	24.7	25.1	25.1	24.0	21.4	21.5
4 Q	21.0	20.1	20.0	20.8	19.8	21.9	21.0	20.6	20.6	20.1	19.2	19.9	18.8	18.6	18.8	20.8	23.4	25.3	26.4	26.3	26.2	26.1	24.1	22.4	21.7
5	22.3	20.1	19.1	19.2	19.8	20.7	20.9	20.7	20.6	19.9	18.9	18.8	18.3	18.6	18.3	19.4	21.1	23.2	26.5	28.7	25.1	23.9	21.5	21.0	21.1
6	21.0	20.7	20.6	20.7	20.7	20.6	17.8	15.6	12.7	21.3	20.6	24.7	24.7	19.7	19.5	22.4	25.0	25.7	24.7	23.7	22.7	21.8	21.5	20.6	21.2
7	21.0	19.0	12.4	20.1	21.8	22.7	22.1	22.0	21.0	20.1	20.0	19.9	19.1	18.9	18.2	19.9	22.3	23.3	24.6	24.7	25.0	24.3	22.5	20.7	21.1
8	20.6	20.6	20.1	19.6	20.1	20.6	20.6	20.6	19.8	20.2	18.1	20.9	24.7	21.6	19.7	20.7	22.4	21.8	28.9	25.8	24.3	22.9	20.6	19.8	21.5
9	21.7	20.6	20.1	20.6	17.5	21.5	22.8	23.2	25.2	21.9	18.7	18.3	19.2	17.9	20.5	21.9	23.4	24.2	24.7	24.1	23.3	22.8	22.2	21.9	21.6
10	21.5	20.5	20.8	17.4	21.0	21.7	23.2	24.6	21.8	20.9	20.5	18.9	18.9	19.2	19.5	23.3	25.0	26.6	26.0	24.7	23.4	22.7	21.6	21.9	21.9
11 Q	20.7	19.7	20.2	20.0	22.6	22.4	21.6	22.0	21.9	21.5	21.6	20.0	19.3	18.6	18.0	20.4	22.2	24.6	25.8	24.9	23.3	22.2	21.2	20.4	21.5
12	20.2	19.6	20.2	20.2	20.6	20.9	20.5	19.3	17.8	18.2	18.8	19.5	17.9	16.6	17.5	18.9	20.7	23.6	25.3	28.9	30.0	28.4	24.1	26.5	21.5
13 D	16.5	15.2	20.1	16.5	14.0	17.6	20.0	26.0	32.7	23.6	20.1	25.4	24.3	26.4	24.3	27.7	29.8	29.4	26.7	31.9	32.2	29.7	27.8	21.5	24.1
14 D	16.0	11.5	16.4	15.5	22.5	23.5	22.4	21.6	21.1	21.0	20.6	20.7	20.6	20.1	20.6	22.7	24.9	27.0	29.5	34.7	26.6	14.2	28.4	23.7	21.9
15	20.2	19.5	19.3	20.1	19.5	20.0	20.1	20.1	20.2	20.6	20.6	19.5	18.9	19.7	18.5	20.6	22.5	24.2	27.6	29.9	26.3	24.3	22.0	19.9	21.4
16	21.6	19.3	20.4	17.5	17.9	20.5	21.2	21.3	20.6	21.3	23.3	24.8	22.0	18.5	17.4	18.9	21.1	23.0	24.2	24.2	24.1	23.0	22.0	21.1	21.2
17	20.1	19.7	20.2	20.6	20.6	21.6	20.6	23.0	23.8	19.3	26.5	19.7	18.8	18.0	17.8	18.3	19.3	20.9	22.6	23.1	22.5	22.3	21.4	21.2	20.9
18	19.8	19.7	19.2	18.7	19.6	20.1	20.6	20.5	20.6	20.2	19.4	19.5	18.3	18.5	17.9	19.3	21.9	25.0	26.7	25.6	22.4	21.4	21.6	21.3	20.7
19	19.0	19.7	18.9	19.4	19.2	19.8	17.8	19.2	19.5	19.5	19.7	18.7	18.5	18.6	18.2	20.6	22.1	24.6	26.0	24.6	24.2	22.0	22.0	21.5	20.6
20	20.4	19.7	19.7	20.0	19.7	19.1	20.1	19.2	18.7	18.5	23.2	19.5	18.3	18.4	17.5	18.3	20.1	22.2	23.8	25.4	22.8	22.0	24.4	19.6	20.5
21 Q	21.0	19.2	19.0	19.7	19.7	19.8	20.1	20.2	19.8	19.6	20.6	20.1	19.7	18.6	17.8	18.5	20.6	22.8	23.8	23.0	22.1	21.2	20.6	19.9	20.3
22 D	19.6	19.2	19.6	19.3	19.3	21.0	20.6	20.6	19.8	19.3	18.4	20.6	31.0	35.3	29.5	29.9	26.5	25.6	28.7	32.9	22.3	25.2	24.7	23.0	23.7
23 D	22.4	11.5	16.7	18.5	18.6	13.3	10.1	24.2	22.4	32.9	21.6	21.5	24.2	24.3	19.7	24.3	29.5	29.5	24.9	22.9	22.4	22.9	23.8	15.0	21.6
24 D	11.8	18.4	18.9	17.5	15.8	20.4	29.5	25.8	16.5	24.5	23.5	21.6	22.5	21.3	21.0	23.1	32.9	31.9	27.4	23.9	21.4	18.8	20.2	17.7	21.9
25	2.9	13.4	13.7	14.7	21.0	18.5	20.5	21.4	30.7	21.8	20.6	22.1	25.6	26.1	24.1	25.2	25.8	24.9	24.2	20.9	19.8	21.5	17.0	17.9	20.6
26	19.4	4.9	14.0	15.6	18.2	20.4	22.2	29.5	24.6	36.0	21.6	19.5	23.1	17.9	23.3	25.1	24.1	23.3	21.9	23.4	24.9	21.6	20.2	19.5	21.4
27	17.5	15.3	17.0	19.6	17.5	23.1	21.4	21.6	29.5	27.8	22.2	21.8	21.3	21.5	19.7	21.5	20.7	22.7	23.5	23.8	22.5	20.0	21.5	19.4	21.4
28	18.5	18.7	14.9	18.3	18.8	19.1	19.6	18.1	17.6	18.8	20.7	20.5	19.0	18.4	16.9	17.8	20.7	23.1	22.4	22.4	22.9	21.5	20.2	18.8	19.5
29	18.3	17.8	15.7	18.9	20.2	20.6	20.3	20.2	19.6	22.2	18.7	18.5	17.9	17.3	18.3	19.9	22.1	24.2	24.3	23.6	21.9	20.6	20.2	20.6	20.1
30	19.0	19.4	18.8	19.3	19.4	19.6	19.4	19.7	19.7	20.4	19.3	19.0	16.7	15.1	16.2	19.0	22.6	24.8	23.7	22.1	21.0	19.6	18.3	18.3	19.6
31 Q	17.9	18.5	18.7	19.1	18.1	19.9	19.5	19.1	17.6	16.7	17.6	17.9	17.5	16.5	17.0	20.4	22.7	23.9	22.9	21.3	19.7	19.2	19.6	19.6	19.2
Mean	19.1	18.1	18.5	18.8	19.6	20.4	20.8	21.5	21.3	21.7	20.5	20.4	20.6	19.8	19.3	21.2	23.3	24.7	25.4	25.4	23.9	22.5	22.0	20.6	21.2

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes, Universal Time

Table 47. Agincourt. (Z.)

56,000 γ +

December, 1950.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	225	225	224	223	222	210	206	212	214	222	222	222	221	222	221	217	217	219	219	223	224	225	222	221	220
2	221	219	220	222	217	206	215	220	222	222	222	218	216	217	214	210	214	219	223	226	226	224	223	219	219
3	219	220	222	224	222	218	217	213	215	217	216	216	218	216	212	208	212	218	222	227	225	225	223	219	219
4 Q	223	223	224	224	225	227	226	225	223	222	222	222	219	218	217	218	218	220	225	227	227	230	228	230	224
5	230	230	229	227	224	223	223	222	222	222	221	221	219	219	216	212	213	213	221	225	228	230	227	227	223
6	228	228	228	228	227	223	206	180	166	157	156	174	198	212	219	222	222	222	225	230	235	234	232	231	212
7	231	238	231	233	233	230	230	230	229	228	226	225	226	223	223	219	221	222	226	227	227	230	229	229	228
8	226	226	226	225	224	222	222	219	220	218	213	209	209	204	204	207	212	217	225	225	226	227	227	229	219
9	230	225	225	220	209	207	216	216	218	212	216	215	217	215	213	207	207	213	219	223	225	225	222	222	217
10	222	224	225	217	219	216	213	213	207	213	218	216	216	216	213	214	215	217	222	226	227	227	225	224	219
11 Q	223	225	224	222	216	213	217	219	219	220	218	216	218	217	217	214	214	218	224	226	226	224	222	220	220
12	216	217	220	218	215	219	213	215	209	210	210	209	210	210	208	209	210	213	215	225	242	278	303	307	225
13 D	281	267	253	237	219	227	208	180	160	150	157	200	209	215	220	217	226	227	256	271	281	310	328	319	234
14 D	340	312	294	273	242	239	235	233	230	230	227	226	229	230	229	230	230	236	242	271	255	267	263	254	251
15	240	236	236	233	232	235	231	229	230	227	226	224	223	219	219	214	219	222	230	237	236	233	230	230	229
16	232	233	235	227	209	214	221	223	221	211	212	218	225	223	219	211	208	213	219	222	226	227	227	224	221
17	223	223	221	221	222	220	220	220	214	210	207	214	220	220	219	212	210	216	223	230	227	226	224	224	219
18	224	225	222	220	221	220	222	219	222	221	219	218	217	215	216	212	210	218	225	230	228	227	225	225	221
19	229	226	225	224	225	225	225	222	222	220	220	219	221	219	217	214	213	218	226	230	226	227	225	225	223
20	225	222	222	221	222	221	222	220	221	220	210	208	213	214	213	214	212	210	214	220	223	225	226	246	219
21 Q	230	230	220	220	219	215	218	218	220	218	218	215	216	218	216	210	209	212	218	222	221	223	222	219	219
22 D	218	218	220	220	222	221	221	219	218	217	213	201	185	201	174	195	219	222	242	317	313	261	250	249	226
23 D	261	309	274	256	233	191	191	137	133	151	191	208	213	220	230	225	232	236	236	236	236	236	238	243	222
24 D	238	234	234	236	218	213	190	171	167	206	201	207	222	225	225	221	257	255	252	245	243	246	242	248	225
25	238	236	229	201	212	220	212	213	169	171	186	201	212	217	222	222	225	232	238	236	243	242	244	240	219
26	237	226	222	226	227	220	190	151	138	104	158	191	206	219	219	224	229	230	231	232	237	233	231	231	209
27	233	233	232	231	201	203	218	219	177	175	200	213	218	214	219	227	227	225	230	233	236	239	243	239	220
28	236	236	231	229	227	225	219	209	207	203	212	215	225	225	224	222	225	226	230	230	225	226	228	229	224
29	227	228	228	227	227	226	221	220	218	216	221	225	225	224	221	218	221	226	231	233	232	230	229	229	225
30	232	230	227	226	226	226	226	225	223	222	223	226	226	226	222	220	220	221	226	227	225	223	226	224	225
31 Q	222	221	221	222	223	222	222	223	221	222	222	221	221	218	213	215	219	221	226	225	225	222	222	224	221
Mean	234	234	230	227	222	219	217	211	206	205	209	213	217	218	217	215	219	222	228	234	235	236	236	236	222

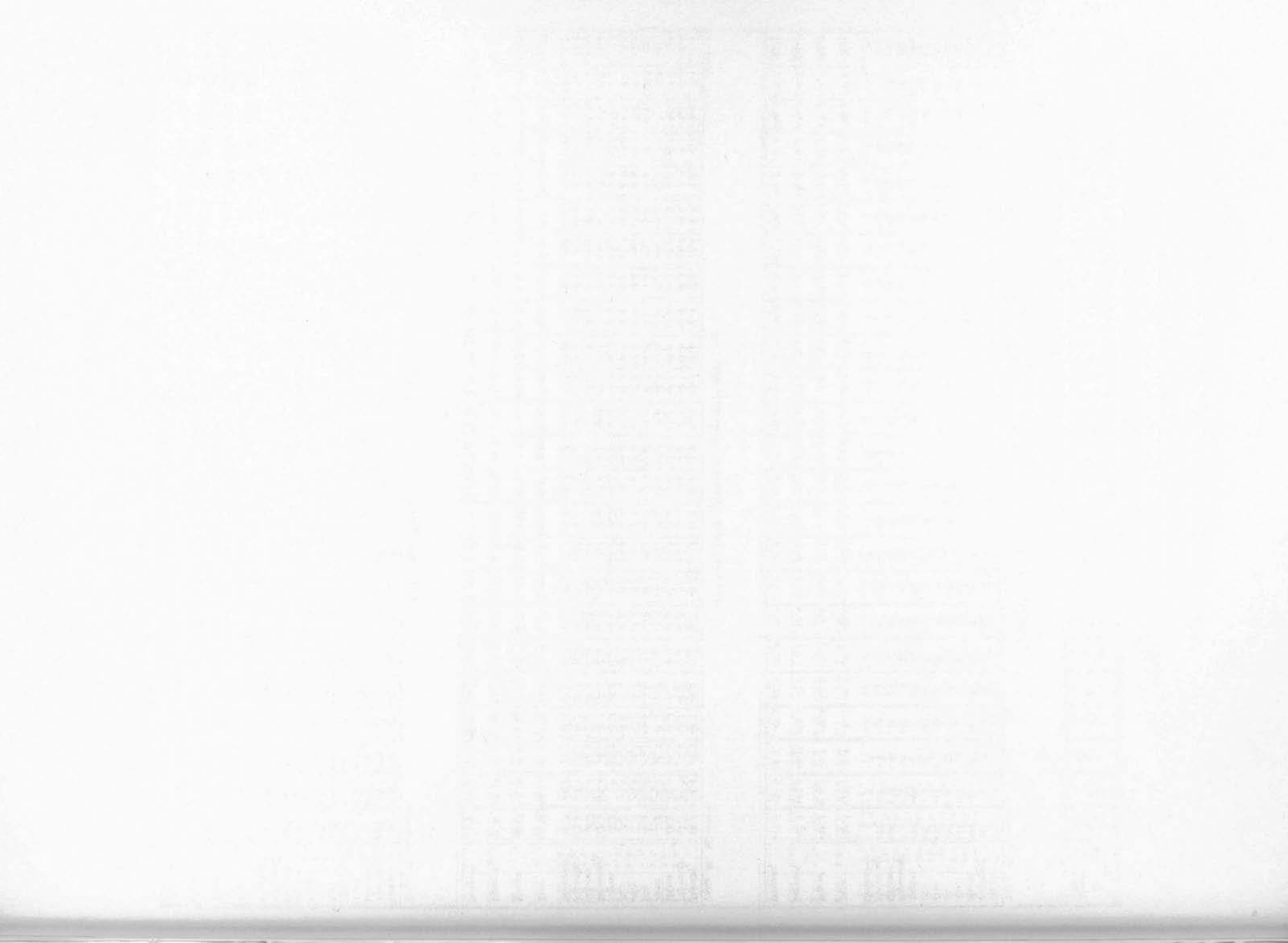
AGINCOURT MAGNETIC OBSERVATORY, 1950-1951

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 48. Agincourt.

December, 1950.

Day	Horizontal Intensity						Declination						Vertical Intensity								
	Maximum 15,000 γ +			Minimum 15,000 γ +			Range	Maximum 7° West +			Minimum 7° West +			Range	Maximum 56,000 γ +			Minimum 56,000 γ +			Range
	h.	m.	γ	h.	m.	γ		h.	m.	'	h.	m.	'		h.	m.	γ	h.	m.	γ	
1 Q	22	20	421	6	18	380	40	18	5	27.5	5	57	15.5	12.0	1	33	226	6	2	202	24
2	22	4	428	16	13	378	50	4	52	30.5	15	28	16.1	14.4	20	10	227	5	3	199	28
3	23	0	427	16	56	387	40	21	34	26.2	14	2	16.5	9.7	19	34	229	15	6	208	21
4 Q	21	21	427	14	57	399	28	20	8	26.7	14	45	18.1	8.6	23	56	231	15	0	215	16
5	12	57	437	18	15	401	36	19	12	30.6	13	41	16.2	14.4	1	26	232	15	30	210	22
6	7	38	433	8	52	389	44	10	5	34.4	8	35	8.4	26.0	21	48	238	10	38	141	97
7	12	16	431	2	9	379	52	18	56	25.5	2	15	1.1	24.4	2	11	244	15	23	218	26
8	12	38	446	17	26	377	69	18	15	30.7	10	19	17.0	13.7	23	5	232	14	50	204	28
9	23	4	421	15	54	390	31	8	33	27.8	4	25	11.8	16.0	0	22	230	4	41	200	30
10	4	25	421	15	5	386	35	18	32	27.3	3	23	11.0	16.3	20	45	228	8	37	207	21
11 Q	11	15	424	16	45	385	39	18	17	26.1	14	38	16.9	9.2	19	50	226	16	0	212	14
12	5	27	443	23	51	336	107	21	48	35.1	8	31	16.2	18.9	21	56	320	18	56	197	123
13 D	12	7	421	4	27	322	99	8	42	37.8	1	13	1.4	36.4	23	59	366	9	18	142	224
14 D	0	7	443	3	35	344	99	19	14	41.6	1	12	-0.4	42.0	0	10	437	11	8	221	216
15	3	45	415	19	1	362	53	19	2	30.7	3	38	16.2	14.5	19	38	240	15	28	210	30
16	4	37	432	17	3	370	62	11	48	27.5	3	55	11.9	15.6	2	15	236	5	0	195	41
17	22	57	421	17	19	381	40	10	30	30.3	14	23	17.1	13.2	19	32	231	10	31	200	31
18	22	3	417	17	16	359	58	18	56	28.3	0	50	17.4	10.9	19	9	232	16	17	208	24
19	6	15	413	18	10	373	40	18	13	28.6	0	45	12.8	15.8	0	45	233	16	27	212	21
20	21	0	416	23	10	363	53	22	53	27.4	23	15	12.3	15.1	23	10	265	10	50	203	62
21 Q	22	25	413	16	33	384	29	18	22	23.8	15	0	17.4	6.4	0	1	233	16	40	208	25
22 D	19	53	469	18	8	341	128	19	36	39.3	20	19	17.5	21.8	19	47	420	13	51	165	255
23 D	10	40	405	9	16	279	126	9	12	50.2	1	31	2.0	48.2	1	23	344	7	35	103	241
24 D	10	1	411	16	20	263	148	16	8	37.6	23	59	10.4	27.2	16	48	279	8	13	143	136
25	3	27	444	15	19	339	105	8	36	36.1	0	8	-5.7	41.8	0	1	245	8	42	139	116
26	10	35	424	9	47	334	90	9	42	52.4	1	40	-4.6	57.0	20	40	241	9	54	65	176
27	4	50	421	8	50	364	57	8	35	33.3	4	22	11.3	22.0	22	50	245	8	54	145	100
28	19	43	417	7	5	381	36	20	46	23.4	2	50	10.6	12.8	0	1	238	9	23	197	41
29	21	3	422	16	46	387	35	17	37	25.0	2	48	12.2	12.8	19	28	235	15	20	217	18
30	19	54	432	17	2	378	54	18	0	25.6	13	50	14.3	11.3	0	29	233	17	1	217	16
31 Q	21	20	432	14	45	392	40	17	38	24.6	13	50	16.1	8.5	18	22	236	14	40	211	15
Mean			427			365	62			31.4			11.5	19.9			260			188	72
No. days			31			31	31			31			31	31			31			31	31



AGINCOURT MAGNETIC OBSERVATORY

Geographic Latitude 43° 47' N Longitude 79° 16' W
Geomagnetic Latitude 55° 0' N Longitude 347° 0' E

Officer-in-Charge: W. E. Ross *Assistant:* A. E. EVANS

1951

INTRODUCTION

The imminent prospects of the subdivision of farm fields in the vicinity of the magnetic observatory, due to the village of Agincourt being built up as a suburb of Toronto, made it imperative to extend the boundaries of the observatory lot in order to obviate possible artificial disturbances in the magnetograms. An additional one and a half acres were purchased in 1951 which had the effect of moving the east boundary fence 104 feet farther from the observatory and widening the access lane from 12 feet to 60 feet.

A wooden walk was built from the new office building to the existing walk between the instrument building and the battery shed. Grading and seeding was done, to extend the lawn around the instrument building up to and around the office building. A small garage of concrete blocks was erected at the edge of the parking space east of the office building, to house a large garden tractor and equipment used for grass and weed cutting in the summer and for plowing snow in the winter.

A 40-foot steel anemometer tower, erected in the late summer of 1930 by the Meteorological Service which directed the magnetic observatory at that time, stood only 35 yards east of the nearest absolute instrument. The tower was moved March 26 to a position east of the new office building and 66 yards northeast of the absolute room. For the estimated magnetic effect of this removal see "Notes on the Tables" below.

Photostat copies of magnetograms, especially the vertical force, have been supplied approximately weekly to several interested agencies. The observatory site was frequently employed as a calibration base for geomagnetic field instruments.

Absolute Instruments

The absolute instruments described in the 1932-33 report continued in use, namely, Elliott 48 for declination, a Schuster-Smith electrical magnetometer for horizontal force, and Toepfer earth inductor 89 for inclination. I.M.S. corrections, as before, were:

For D, I.M.S. = Agincourt (Elliott 48) - 0'.8
" H, " = " (Schuster-Smith) 0.0 γ
" I, " = " (Toepfer 89) - 0'.15

Variometers

Two sets of magnetographs were kept in operation, a Ia Cour normal sensitivity set used as standard (for Z since 1939 and for D and H since 1941) and the old Kew set (Adie

pattern) used as an auxiliary. A la Cour quick-run set, still in position, has not been operated since 1946. Scale coefficients used for the la Cour variometers were: D 0.91 minute per mm., H 5.15 gammas per mm., Z 5.90 gammas per mm. The Kew D scale value is 1.28 minutes per mm. H and Z scale values are obtained from time to time by disturbance comparison with la Cour magnetograms. Those used in 1951 for Kew eye-reading base value determinations were 4.96 and 15.0 gammas per mm. respectively for most of the year, 5.2 and 12.6 in December and part of November. These eye-readings are a convenience when field instruments, compasses for example, are being checked and immediate values are needed.

Notes on the Tables

Greenwich Mean Time is used.

In Tables I to III base-line values are for the la Cour variometers. The anemometer tower's removal had the following effect in the la Cour basement, derived from the abrupt changes in the magnetogram ordinates: D moved east 2.3 minutes, H increased 7.7 gammas and Z increased 5.3 gammas. No effect was noted on the Kew magnetograms. The absolute room lies between the la Cour and Kew basements and from this differential effect it was estimated that the presence of the tower increased D westerly about one minute (estimated 0.8) and decreased H and Z about 2 gammas each. The la Cour D base value was accordingly adjusted by increasing it westerly 1.5 minutes (2.3 minus 0.8). The H and Z base values were simply adjusted to fit the apparent change in values by decreasing H 8 gammas and Z 5 gammas because of the uncertainty attaching to the small estimated absolute room changes of about 2 gammas each. Declination values previous to March 26, 1951, should be considered about one minute too high (westerly) but perhaps less than this amount in the years immediately after 1930 since the tower may have acquired its magnetization gradually.

Dates of other abrupt base-line changes, due to adjustments, were: H May 5th, D May 8th.

In Table IV (non-cyclic change) A, Q, and D indicate all, quiet, and disturbed days respectively. Declination is taken as positive easterly in Tables IV and 50, 53, and 56 (diurnal inequalities).

In Table V the annual means are based on all days.

In Tables 1 to 48 (hourly values and daily extremes) the hourly values are averaged over the hour whose G.M.T. beginning and ending are shown by the pair of figures heading the column. Estimated values are bracketed.

Highest and lowest values for the month etc. are marked in the daily extremes tables and the diurnal inequalities tables (49-57). In the latter a positive value is greater than the 24-hour mean.

In the daily extremes tables, character figures and K indices are not shown. These have been supplied regularly to the Association of Terrestrial Magnetism and Electricity of the International Union of Geodesy and Geophysics for inclusion in their "Geomagnetic Indices C and K" bulletins.

TABLE I—H BASE-LINE VALUES OBSERVED AND ADOPTED

Date	Observed	Adopted	Date	Observed	Adopted
1951	γ	γ		γ	γ
Jan. 8.....	15107	15107	Aug. 24.....	15219	15229
24.....	106	105	30.....	220	229
Feb. 13.....	103	105	Sept. 24.....	222	230
Mar. 28.....	098	097	Oct. 3.....	235	231
28.....	099	097	5.....	238	232
Apr. 26.....	098	097	25.....	238	233
30.....	096	097	Nov. 21.....	236	231
May 8.....	15226	15228	27.....	217	229
June 8.....	224	228	Dec. 4.....	218	227
22.....	233	232	12.....	219	225
Aug. 1.....	227	231	27.....	218	222

TABLE II—D BASE-LINE VALUES OBSERVED AND ADOPTED

Date	Observed	Adopted	Date	Observed	Adopted
1951	° ' ,	° ' ,		° ' ,	° ' ,
Jan. 15.....	7 59.8	7 59.6	July 20.....	7 49.0	7 49.8
17.....	58.9	59.6	31.....	49.7	49.8
Feb. 15.....	59.4	59.1	Aug. 24.....	49.6	49.8
28.....	60.2	59.0	30.....	50.8	49.8
Mar. 15.....	59.9	58.8	Sept. 27.....	49.6	49.8
Apr. 2.....	8 1.5	8 0.1	Oct. 25.....	48.9	49.8
2.....	1.8	0.1	27.....	49.0	49.8
May 29.....	7 48.9	7 49.8	Nov. 9.....	49.6	49.8
31.....	49.2	49.8	14.....	48.2	49.8
June 1.....	49.1	49.8	16.....	49.8	49.8
5.....	49.2	49.8	23.....	48.1	49.8
21.....	49.5	49.8	Dec. 5.....	50.6	49.9
27.....	50.0	49.8	10.....	50.8	50.0
July 10.....	50.5	49.8			

TABLE III—Z BASE-LINE VALUES OBSERVED AND ADOPTED

Date	Observed	Adopted	Date	Observed	Adopted
1951	γ	γ		γ	γ
Feb. 15.....	56137	56091	July 31.....	56099	56090
28.....	076	092	Aug. 25.....	065	089
Mar. 13.....	083	092	30.....	090	089
15.....	112	093	Oct. 3.....	081	086
20.....	072	093	11.....	088	085
April 9.....	083	089	25.....	083	083
9.....	097	089	Nov. 9.....	092	081
May 17.....	095	090	19.....	085	079
25.....	059	090	26.....	074	077
June 14.....	092	090	29.....	114	076
21.....	079	090	Dec. 29.....	031	071

TABLE IV—NON-CYCLIC CHANGE (24h.-0h.)

Month	Horizontal Force			Declination			Vertical Force		
	A	Q	D	A	Q	D	A	Q	D
1951	γ	γ	γ	'	'	'	γ	γ	γ
January.....	-1.1	+3.2	- 6.9	-0.10	+0.60	+0.09	+1.7	-1.6	+10.8
February.....	+0.7	+6.8	- 1.5	+0.04	+0.19	-1.79	-1.2	-5.9	+ 6.2
March.....	+0.3	+6.1	- 1.1	+0.10	+0.04	-3.25	-0.4	-1.7	+33.8
April.....	+1.0	+5.4	-10.2	+0.01	-0.72	+5.52	+0.1	-0.2	+ 6.0
May.....	+0.1	+9.4	- 4.4	+0.06	-0.56	+2.98	0.0	-3.0	+12.3
June.....	0.0	+4.6	- 6.5	+0.04	-0.59	+0.25	+0.3	+2.2	+ 0.7
July.....	-0.6	+2.5	-49.1	-0.01	-0.12	-2.76	+1.6	-1.5	+12.0
August.....	-0.1	+2.3	- 8.4	-0.05	-1.76	+2.92	-1.3	-6.4	+ 7.0
September.....	+0.4	+8.1	+57.0	+0.01	-0.24	+6.01	+0.2	-5.3	- 5.6
October.....	-0.2	+5.6	-27.5	+0.01	+0.61	+2.93	-0.2	-7.0	- 4.6
November.....	+0.2	+3.8	- 5.0	+0.08	-0.05	-0.21	-0.2	-2.9	+14.8
December.....	-0.6	+4.8	-15.1	+0.15	+0.23	+1.11	+0.4	-3.7	+14.4

TABLE V—ANNUAL MEANS

Year	D	H	Z	I	F
1936.....	7 36.9	15362	56658	74 49.8	58704
1937.....	35.9	333	604	50.6	644
1938.....	35.1	310	564	51.3	599
1939.....	34.0	292	522	51.7	554
1940.....	32.3	281	503	52.0	533
1941.....	32.4	288	482	51.3	514
1942.....	31.4	303	460	50.1	497
1943.....	30.8	309	461	49.7	500
1944.....	30.1	313	406	48.7	454
1945.....	27.7	322	392	48.0	436
1946.....	25.5	311	361	48.1	404
1947.....	22.3	338	370	46.7	419
1948.....	22.5	355	302	44.7	358
1949.....	20.9	360	237	43.4	297
1950.....	22.0	399	236	41.2	306
1951.....	17.2	419	233	40.0	309

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 4. Agincourt.

January, 1951.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range
	15,000 γ +		15,000 γ +			7° West +		7° West +			56,000 γ +		56,000 γ +		
h. m.	γ	h. m.	γ	γ	h. m.	'	h. m.	'	'	h. m.	γ	h. m.	γ	γ	
1	2 17	437	16 48	398	39	19 37	24.2	12 57	14.5	9.7	2 0	232	14 14	214	18
2 D	13 22	428	5 38	377	51	19 8	26.0	5 47	6.1	19.9	23 59	239	14 12	206	33
3	12 31	428	5 10	360	68	18 13	26.8	4 58	-2.4	29.2	0 1	239	4 55	187	52
4 Q	20 33	437	16 2	399	38	19 8	23.3	3 2	12.2	11.1	0 18	226	15 22	214	12
5	20 34	436	14 47	392	44	18 17	24.7	14 54	14.8	9.9	5 10	225	17 2	203	22
6 Q	21 36	422	15 40	387	35	18 50	24.7	14 13	16.1	8.6	20 2	227	15 31	215	12
7 Q	20 16	426	15 50	394	32	8 57	24.6	13 27	16.3	8.3	16 37	222	9 22	213	9
8	12 27	441	16 5	397	44	18 12	25.0	11 3	12.0	13.0	20 54	221	8 50	196	25
9 Q	11 57	427	15 59	391	36	6 23	23.9	11 50	15.0	8.9	7 50	221	4 32	206	15
10	19 45	437	17 42	374	63	18 27	38.7	13 13	15.2	23.5	19 47	235	14 48	207	28
11	19 5	427	1 24	365	62	7 19	29.8	1 30	4.0	25.8	1 18	261	7 45	212	49
12	1 38	450	16 8	359	91	10 26	31.3	1 25	2.3	29.0	1 23	245	9 29	163	82
13	2 22	429	15 28	367	62	7 8	31.4	2 3	7.0	24.4	21 40	240	7 28	189	51
14	22 9	425	13 55	374	51	18 42	28.2	1 26	5.7	22.5	0 42	245	15 7	212	33
15	2 58	446	22 19	376	70	22 0	30.8	2 42	-1.0	31.8	21 10	255	6 17	201	54
16	6 48	420	6 42	354	66	17 57	30.8	9 58	12.3	18.5	22 4	253	12 3	210	43
17	4 58	416	15 5	374	42	17 46	24.5	1 58	9.4	15.1	1 13	236	7 13	208	28
18 Q	21 8	421	14 57	384	37	17 33	25.0	13 12	15.2	9.8	19 40	225	15 6	212	13
19	20 30	435	1 58	382	53	22 34	28.7	2 20	6.2	22.5	23 51	259	14 52	203	56
20	23 41	419	1 54	363	56	0 42	28.8	13 37	16.0	12.8	1 7	268	15 44	211	57
21 D	11 40	433	15 25	322	111	16 50	39.2	14 16	12.0	27.2	21 50	260	15 25	199	61
22 D	11 17	411	21 17	301	110	6 51	42.9	1 56	-16.5	59.4	21 17	297	6 52	10	287
23 D	1 56	420	18 59	352	68	6 38	34.5	1 11	-13.7	48.2	0 42	251	6 34	187	64
24	5 4	423	17 17	374	49	6 30	26.1	5 11	12.5	13.6	21 53	243	5 18	201	42
25	3 8	420	17 40	391	29	8 49	24.0	13 18	15.7	8.3	22 2	228	8 17	210	18
26	12 2	423	18 25	362	61	18 53	32.7	14 5	11.6	21.1	23 55	249	15 0	202	47
27	19 55	434	17 57	364	70	7 22	36.4	3 6	1.4	35.0	0 2	249	17 22	195	54
28	0 41	424	18 56	349	75	20 38	28.3	14 25	5.2	23.1	0 53	268	15 45	207	61
29	4 42	426	17 16	377	49	20 12	27.6	14 51	11.7	15.9	22 55	238	8 45	204	34
30	21 9	425	16 46	372	53	21 34	30.5	14 49	10.9	19.6	0 46	250	7 32	210	40
31 D	1 25	428	9 2	55	373	7 40	59.3	9 27	-5.8	65.1	23 59	286	7 40	-129	415
Mean		428		361	67		30.1		8.1	22.3		245		186	59
No. days		31		31	31		31		31	31		31		31	31

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 5. Agincourt. (H.)

15,000 γ +

February, 1951.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	394	393	374	373	379	378	351	353	357	368	378	389	388	388	385	378	378	381	389	399	397	402	408	404	383
2 Q	405	409	408	404	407	405	405	404	408	410	410	410	408	407	400	391	389	388	393	397	399	405	410	412	404
3 Q	412	413	413	413	412	415	413	413	413	413	413	413	414	414	410	406	402	405	414	413	408	410	414	418	412
4	418	419	418	418	418	418	415	414	407	402	405	403	419	419	421	409	399	404	400	403	400	405	410	413	410
5	410	414	414	416	414	403	408	408	414	425	426	423	418	412	418	428	424	423	423	403	407	399	387	402	413
6	397	369	378	387	373	356	382	364	389	392	380	393	400	396	387	382	381	382	388	395	404	410	412	418	388
7	423	413	410	410	407	418	412	405	405	407	407	404	402	393	387	383	388	397	405	403	408	410	408	404	405
8	407	403	413	410	407	407	404	403	404	406	407	403	402	403	394	367	337	348	387	397	399	395	405	402	396
9	408	406	418	397	399	394	395	398	388	394	400	397	392	384	361	339	379	397	382	373	383	403	409	392	391
10	384	393	399	392	387	382	383	400	395	395	392	393	391	382	374	379	376	382	387	384	405	421	385	403	390
11	408	394	400	388	392	395	410	402	392	397	405	405	397	389	384	376	356	358	387	392	404	415	412	391	394
12	377	392	405	388	400	409	390	401	395	399	403	397	387	379	378	395	393	388	358	393	409	423	415	393	394
13	415	410	418	414	402	400	403	399	403	402	400	397	394	408	391	389	387	387	400	400	403	412	402	400	402
14	409	397	397	407	405	410	408	412	410	408	408	410	408	400	394	388	388	394	394	408	413	405	412	416	404
15 Q	416	415	410	416	412	409	409	405	404	409	408	409	409	404	400	395	393	397	403	407	408	412	409	409	407
16 Q	416	415	413	410	409	410	412	414	415	416	415	414	410	403	397	396	398	406	417	423	423	423	420	420	412
17	420	420	418	415	415	415	416	417	419	421	422	420	414	407	407	405	404	410	419	428	423	418	418	415	416
18	407	410	412	409	408	406	403	405	405	403	407	420	418	408	400	403	408	406	411	419	423	418	415	413	410
19	415	415	415	413	410	418	421	421	423	421	426	431	423	415	402	399	400	405	414	423	425	424	404	397	415
20 Q	407	409	410	418	418	414	413	418	419	416	418	418	414	407	403	403	409	418	425	428	423	419	418	418	415
21	419	416	419	416	414	417	417	418	416	420	423	420	414	404	393	395	394	392	385	399	404	408	417	418	410
22 D	409	385	405	416	406	382	437	402	397	380	382	397	382	388	378	381	376	389	401	405	414	409	423	404	398
23 D	410	395	394	401	394	407	371	292	352	394	401	371	361	349	346	364	367	366	386	402	419	419	421	387	382
24 D	394	389	400	387	404	387	385	368	382	366	382	394	379	382	374	363	354	366	396	401	415	420	417	404	388
25	404	423	407	413	403	402	407	405	405	405	397	399	399	392	383	381	389	399	407	410	418	418	397	413	403
26	418	415	415	410	399	406	401	394	402	409	413	414	405	393	378	384	385	380	377	388	397	402	410	418	401
27 D	401	361	433	349	374	371	345	330	359	388	390	396	399	393	378	387	388	394	416	428	436	440	435	438	393
28 D	416	405	393	384	298	404	191	343	354	387	400	407	401	403	405	406	397	398	403	406	403	410	409	411	385
29																									
30																									
31																									
Mean	408	404	408	403	399	401	393	393	398	402	404	405	402	397	390	388	387	391	399	404	410	413	411	408	401

MAGNETIC DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 6. Agincourt. (D.) West.

7° + . . . '

February, 1951.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24			
1	19.5	17.2	17.7	15.0	12.9	18.3	11.7	11.7	13.5	12.7	19.6	19.5	16.2	14.0	15.3	17.6	19.3	20.9	23.0	24.4	25.9	24.8	26.5	23.6	18.3		
2 Q	20.9	19.2	18.8	18.6	17.6	18.7	18.5	18.3	18.3	18.3	18.4	18.4	18.3	17.4	17.3	18.7	20.2	21.0	22.2	23.4	23.1	22.2	21.2	19.9	19.5		
3 Q	19.7	19.3	18.5	17.9	18.1	18.4	18.5	18.5	18.3	18.2	18.2	18.2	18.2	17.2	23.0	18.2	22.9	24.1	23.5	25.5	25.2	23.5	22.1	21.8	21.0	19.7	19.2
4	19.3	18.6	19.0	18.9	19.2	19.0	18.5	17.6	15.4	15.2	17.2	23.0	18.2	22.9	24.1	23.5	25.5	25.2	23.5	22.1	21.8	21.0	19.7	18.9	20.3		
5	18.9	18.4	18.1	18.2	17.6	18.3	17.6	17.2	17.2	17.2	15.3	15.9	15.2	17.2	23.4	24.8	20.9	21.3	22.7	24.3	22.9	25.3	23.4	23.9	19.8		
6	14.9	9.4	16.8	18.2	14.6	25.7	18.4	24.3	21.4	18.2	23.0	22.6	18.9	18.5	17.6	18.4	20.8	22.1	22.6	21.7	19.4	18.2	18.5	19.1	19.3		
7	19.0	19.9	20.3	22.3	14.4	21.2	20.3	18.4	16.6	16.6	16.2	16.7	16.4	15.9	16.2	19.7	22.1	23.0	22.9	23.0	20.2	17.6	17.4	18.1	18.9		
8	18.1	15.8	17.5	18.6	19.2	19.3	18.8	20.7	17.6	16.6	13.0	16.2	16.2	15.4	18.1	22.8	28.2	30.0	26.3	26.5	25.3	24.8	21.7	20.9	20.3		
9	18.1	13.7	13.8	18.2	18.5	14.3	16.4	19.2	14.9	16.5	16.6	17.4	16.4	17.2	16.2	23.1	24.0	21.8	25.3	28.4	29.8	18.0	21.3	21.9	19.3		
10	18.4	16.4	11.2	14.4	17.2	18.1	15.5	18.2	19.3	15.7	15.0	16.2	15.6	14.9	16.8	18.8	20.3	22.3	24.1	24.4	21.8	22.6	16.5	21.2	18.2		
11	20.1	16.2	5.7	13.9	16.6	17.6	24.8	19.3	13.9	16.6	18.4	17.1	14.9	14.8	15.5	18.5	23.9	28.0	28.1	29.3	25.3	20.8	19.7	20.5	19.2		
12	9.1	14.2	15.8	16.2	14.6	26.1	18.6	19.8	15.3	17.6	16.8	17.6	18.1	20.3	24.9	24.3	25.1	22.5	24.0	21.9	21.4	20.3	21.7	20.0	19.4		
13	19.2	16.3	13.4	17.4	19.2	20.0	23.6	19.2	16.1	13.3	14.3	20.7	21.1	17.1	17.4	17.8	20.9	23.7	23.6	24.4	22.5	22.5	18.9	16.1	19.2		
14	19.3	16.6	17.8	18.5	18.1	19.8	21.2	19.6	17.6	17.4	18.3	18.3	17.0	16.1	16.3	19.8	21.6	22.6	23.6	21.8	21.7	20.7	20.0	19.8	19.3		
15 Q	19.6	19.0	17.5	18.8	17.5	18.2	18.1	16.7	16.3	16.2	15.8	16.6	16.6	17.1	17.4	19.2	20.7	21.6	21.8	21.8	21.5	20.9	20.9	20.2	18.8		
16 Q	19.3	19.2	18.8	18.9	18.5	18.5	18.9	18.2	17.9	17.4	17.4	17.1	16.7	16.5	17.2	18.9	21.2	21.6	21.2	20.8	20.2	19.8	20.3	20.1	19.0		
17	19.2	19.0	18.5	18.1	18.3	18.4	17.9	17.4	17.7	17.0	16.6	16.1	15.1	15.2	16.5	18.5	20.7	21.8	22.0	22.0	22.0	21.7	21.5	21.7	18.9		
18	21.0	19.3	18.3	17.8	17.3	18.0	16.2	15.4	15.2	12.6	14.2	13.6	11.0	12.8	18.3	22.8	23.0	23.4	25.2	22.9	19.4	17.9	16.2	17.3	17.9		
19	18.8	19.1	19.0	18.8	17.4	15.6	14.3	15.9	16.0	17.8	19.8	15.3	12.0	15.0	14.3	18.2	21.5	22.8	22.3	20.7	18.8	18.0	19.0	16.5	17.8		
20 Q	17.8	16.8	17.0	17.0	17.4	19.9	19.0	18.4	17.8	16.4	17.8	16.5	15.0	15.0	17.4	20.5	22.5	22.8	21.1	19.2	17.9	17.8	18.2	19.1	18.2		
21	18.9	17.0	14.6	18.3	19.3	20.5	21.9	17.9	17.5	20.5	15.5	14.7	14.3	14.4	16.0	19.1	19.9	22.0	24.4	24.9	23.3	20.7	18.4	18.1	18.9		
22 D	16.5	10.8	16.5	18.3	16.4	1.7	28.3	17.6	12.5	11.9	20.7	7.9	17.7	26.1	25.6	29.3	25.6	24.4	24.5	25.6	23.3	17.0	23.1	15.5	19.1		
23 D	16.0	16.4	7.8	16.2	4.4	16.0	16.0	22.6	23.5	12.8	13.5	18.5	24.3	27.3	21.1	23.8	20.1	26.9	25.2	20.6	23.8	21.7	21.7	8.0	18.7		
24 D	20.7	17.8	15.1	15.1	18.7	15.0	17.5	30.6	26.4	13.3	16.5	17.7	20.1	19.1	19.8	20.5	25.4	23.9	24.1	24.3	22.4	21.9	20.8	16.0	20.1		
25	19.1	16.0	18.5	18.0	18.4	24.2	26.1	26.3	17.4	16.9	17.4	19.6	17.3	14.8	17.0	20.2	23.8	24.7	24.2	22.8	20.5	22.0	11.9	20.1	19.9		
26	20.1	19.2	19.0	18.2	12.8	21.5	14.8	17.0	20.7	18.0	15.7	16.5	15.0	13.9	19.7	23.2	22.9	23.0	24.0	24.1	21.9	20.1	20.7	19.7	19.2		
27 D	6.2	13.8	12.8	19.9	17.0	17.1	12.0	18.2	19.1	17.0	14.2	15.4	12.8	13.2	14.6	14.7	16.4	20.6	21.1	22.0	20.8	18.9	19.0	20.1	15.4		
28 D	19.4	18.9	15.5	8.9	21.4	9.7	7.1	27.8	6.2	14.2	17.3	16.9	16.4	15.0	14.6	17.8	19.2	21.1	21.9	22.4	24.6	25.7	23.9	21.4	17.8		
29																											
30																											
31																											
Mean	18.1	16.0	16.1	17.4	16.9	18.1	18.2	19.3	17.1	16.1	16.9	17.1	16.6	17.0	18.1	20.4	22.0	23.1	23.5	23.2	22.2	20.9	20.1	19.2	18.9		

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
 Mean values for periods of sixty minutes, Universal Time

Table 7. Agincourt. (Z.)

56,000 γ +

February, 1951.

Hour U. T. Day	February, 1951.																							Mean	
	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23		23 to 24
1	282	303	304	285	263	257	238	230	209	214	225	229	238	239	231	228	228	226	226	231	239	252	243	238	244
2 Q	237	234	233	237	238	238	234	232	231	228	228	227	227	227	226	225	227	226	225	226	227	230	230	228	230
3 Q	228	228	228	228	227	226	226	226	226	226	225	225	226	225	223	223	225	226	223	226	228	230	228	227	226
4	226	226	225	224	225	225	223	221	216	213	207	199	198	207	208	214	221	226	226	228	230	232	232	230	220
5	228	227	226	225	222	226	227	228	227	221	215	214	220	217	213	208	208	213	216	221	236	243	261	280	226
6	299	298	308	281	115	190	233	213	231	228	210	215	227	231	231	234	237	237	239	237	234	231	231	228	234
7	228	229	234	233	234	231	235	231	229	231	228	226	227	227	228	224	226	225	227	232	234	231	228	228	229
8	228	227	226	226	226	227	225	223	215	223	220	219	216	216	217	218	233	248	258	258	249	255	251	246	231
9	240	239	231	231	237	227	222	228	223	228	226	219	209	208	211	233	232	230	234	248	260	269	252	254	233
10	260	252	240	243	239	231	213	213	226	236	229	234	238	233	233	231	228	230	234	237	241	246	255	246	236
11	243	249	231	235	236	230	220	219	217	231	231	230	233	231	230	225	227	241	243	239	236	237	238	250	233
12	252	250	257	254	250	196	219	233	226	228	225	226	223	221	213	212	214	221	231	240	237	239	234	234	231
13	237	243	227	234	237	226	209	208	220	216	217	209	201	213	216	217	219	225	227	230	240	239	239	238	224
14	237	239	242	240	233	226	221	221	225	225	226	227	226	226	225	225	227	228	231	236	234	237	234	231	230
15 Q	228	225	227	226	225	227	226	226	227	225	223	225	222	221	223	222	224	226	226	228	230	231	229	231	226
16 Q	229	228	228	229	228	228	225	227	226	224	225	224	226	227	227	223	226	229	229	227	225	223	223	225	226
17	226	225	224	225	224	224	223	223	225	223	222	220	221	221	216	209	211	215	220	223	223	224	227	227	222
18	234	238	234	233	232	231	228	228	227	222	209	192	195	204	206	208	211	217	226	228	227	227	223	222	221
19	223	223	222	222	215	203	209	218	220	215	193	194	205	208	206	203	210	214	221	223	222	227	227	233	215
20 Q	235	229	226	219	216	222	222	222	220	218	218	221	216	215	212	212	214	216	218	222	220	216	220	219	219
21	220	220	215	214	218	216	206	212	214	217	212	217	217	216	214	215	215	217	226	231	229	226	222	226	218
22 D	223	234	235	229	222	215	156	176	208	202	176	192	182	173	179	185	197	211	216	227	247	258	262	281	212
23 D	256	265	227	235	228	208	190	103	89	205	225	196	193	199	208	238	232	234	238	257	279	281	234	303	226
24 D	298	216	218	250	215	209	210	135	167	146	187	199	202	212	217	225	229	238	244	241	238	238	244	244	218
25	244	232	231	222	209	204	220	229	229	225	216	225	226	222	223	226	228	231	232	231	232	243	247	235	228
26	229	227	227	222	220	212	208	223	221	222	223	222	224	222	223	224	227	229	237	235	242	238	235	233	226
27 D	231	220	315	214	197	205	221	228	210	227	230	243	238	234	225	220	217	216	212	215	215	212	214	216	224
28 D	217	221	221	188	9	73	-4	33	173	206	229	228	229	227	227	218	215	215	218	224	238	241	251	247	189
29																									
30																									
31																									
Mean	240	237	238	232	216	215	210	207	213	219	218	218	218	219	218	219	222	225	229	232	236	238	240	239	225

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 8. Agincourt.

February, 1951.

Day	Horizontal Intensity						Declination						Vertical Intensity									
	Maximum 15,000 γ +			Minimum 15,000 γ +			Range	Maximum 7° West +			Minimum 7° West +			Range	Maximum 56,000 γ +			Minimum 56,000 γ +			Range	
	h.	m.	γ	h.	m.	γ		h.	m.	'	h.	m.	'		h.	m.	γ	h.	m.	γ		
1	1	1	419	6	23	340	79	1	4	30.0	8	59	5.8	24.1	1	32	327	9	7	192	135	
2 Q	1	53	415	17	17	384	31	19	35	24.3	13	23	16.4	7.9	4	58	240	17	58	223	17	
3 Q	23	58	419	17	7	397	<u>22</u>	18	20	22.9	14	14	15.7	7.2	21	25	231	14	42	221	10	
4	14	21	424	11	16	385	39	16	42	27.1	9	22	14.3	12.8	21	51	234	11	50	187	47	
5	15	27	451	22	11	376	75	15	30	29.4	13	4	11.6	17.8	23	59	308	15	11	202	106	
6	23	55	426	5	20	309	117	5	7	56.7	2	33	-12.2	68.9	0	22	381	5	4	-9	390	
7	0	34	433	14	47	381	52	3	53	25.1	4	25	9.4	15.7	4	16	240	17	53	222	18	
8	2	12	415	16	40	326	89	17	17	34.7	10	41	11.7	23.0	18	50	274	8	28	207	67	
9	2	40	428	15	17	326	102	20	28	33.0	2	0	5.5	27.5	21	26	286	13	24	202	84	
10	21	13	433	5	53	367	66	22	7	26.2	2	10	3.6	22.6	22	40	267	7	58	190	77	
11	22	50	424	16	58	340	84	19	49	31.4	2	8	-13.1	44.5	2	0	263	8	22	210	53	
12	5	4	466	18	32	339	127	5	23	40.0	0	8	-10.1	50.1	0	4	280	5	20	183	97	
13	2	9	438	17	6	382	56	5	55	27.3	2	7	6.0	21.3	22	47	249	12	5	191	58	
14	20	33	424	14	38	385	39	18	25	24.7	1	47	13.0	11.7	2	48	246	6	40	215	31	
15 Q	0	53	420	16	33	390	30	18	39	22.1	10	0	14.7	7.4	23	36	232	15	15	220	12	
16 Q	21	31	426	15	16	394	32	16	38	21.9	13	32	15.9	<u>6.0</u>	0	18	229	22	17	221	<u>8</u>	
17	19	3	430	15	4	401	29	20	56	23.0	13	44	14.6	8.4	23	59	229	15	36	209	20	
18	20	18	432	14	53	390	42	18	42	26.7	12	42	9.7	17.0	1	12	241	11	16	186	55	
19	21	8	443	23	2	386	57	16	55	23.7	12	21	10.6	13.1	23	58	238	10	33	182	56	
20 Q	19	23	430	14	13	401	29	16	57	23.2	12	10	13.7	9.5	0	25	238	16	32	210	28	
21	6	33	429	14	40	379	50	19	52	26.5	2	10	11.4	15.1	20	32	235	6	41	197	38	
22 D	6	42	472	12	40	353	119	6	11	41.6	5	25	-2.4	44.0	23	36	320	6	30	130	190	
23 D	20	43	454	7	37	229	225	7	53	52.6	2	27	-1.9	54.5	22	43	<u>438</u>	7	38	22	416	
24 D	2	9	444	17	2	335	109	1	56	38.6	2	0	-0.5	39.1	1	8	323	7	53	103	220	
25	21	22	448	1	6	374	74	5	21	31.9	22	23	6.5	25.4	1	12	254	5	20	187	67	
26	23	35	423	18	7	367	56	5	24	26.4	4	23	9.8	16.6	20	53	245	6	14	194	51	
27 D	20	26	<u>501</u>	7	33	294	207	3	34	29.8	1	8	<u>-34.4</u>	64.2	2	13	375	4	8	114	261	
28 D	5	35	479	6	47	<u>-84</u>	<u>563</u>	6	48	<u>62.3</u>	8	33	<u>-7.2</u>	<u>69.5</u>	22	49	261	6	49	<u>-390</u>	<u>651</u>	
29																						
30																						
31																						
Mean			437			344	93			31.5			4.9	26.6			274			158	117	
No. days			28			28	28			28			28	28			28			28	28	

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 9. Agincourt. (H.)

15,000 γ +

March, 1951.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1	412	396	387	397	380	389	403	408	405	401	400	403	405	397	392	387	384	387	390	397	407	410	413	413	399
2 Q	413	414	412	413	412	410	414	415	414	412	413	412	403	397	387	392	389	384	390	397	407	415	417	412	406
3	413	418	414	413	415	414	405	408	410	413	414	410	410	404	397	395	394	397	399	405	410	413	416	418	408
4 Q	423	420	419	418	418	402	405	414	415	417	416	415	413	407	405	402	407	408	416	421	423	421	412	416	414
5 Q	423	425	423	421	419	418	418	413	413	418	418	416	413	407	403	403	408	412	418	421	424	423	424	427	417
6	430	431	427	415	423	423	408	414	392	412	413	412	400	402	392	410	408	413	409	409	415	420	423	416	413
7 D	414	404	408	415	413	414	418	423	423	428	421	407	384	371	401	381	382	405	404	402	418	423	400	400	407
8	397	397	402	403	405	401	394	408	404	364	396	418	394	387	356	381	388	390	386	409	414	412	395	391	395
9	408	404	387	387	401	397	400	403	389	394	397	391	400	389	388	373	375	387	408	412	400	415	408	404	396
10 D	374	377	384	399	408	382	342	377	402	404	403	400	383	372	379	378	381	388	389	394	407	407	407	405	389
11	394	385	390	400	397	405	400	376	379	377	383	399	402	397	387	382	374	386	392	392	394	412	414	418	393
12	405	407	436	405	400	379	387	392	386	338	399	420	408	382	358	392	393	408	412	414	410	409	407	413	399
13 D	408	406	403	408	409	401	404	402	403	395	386	417	410	408	364	369	366	364	364	394	441	449	451	397	401
14 D	377	387	382	379	387	349	340	387	400	390	372	369	366	358	382	374	361	377	388	441	457	429	434	440	388
15	441	454	389	382	394	397	391	397	399	400	400	400	393	389	389	389	392	395	403	407	414	416	419	418	403
16	420	418	412	408	402	405	410	410	413	408	426	429	423	414	403	396	397	403	412	422	418	416	407	403	411
17	408	413	416	416	418	420	418	423	361	407	386	408	404	392	384	376	376	377	401	412	423	415	417	407	403
18	410	418	410	416	410	415	412	418	418	387	412	418	407	403	398	393	401	408	423	423	423	416	410	412	411
19	412	413	405	419	418	412	415	409	407	415	412	413	407	399	393	389	395	402	406	411	414	418	419	420	409
20	419	420	420	423	423	421	420	419	423	427	434	428	422	408	402	395	397	397	397	405	414	421	422	422	416
21 Q	417	416	413	414	418	421	420	419	423	427	434	428	422	414	407	397	399	397	404	420	426	444	436	434	417
22 D	431	424	419	423	414	408	415	419	419	418	393	385	405	407	387	376	346	356	381	397	477	459	423	429	409
23	377	391	390	405	393	382	386	393	379	379	389	364	379	397	387	367	368	373	384	413	428	433	413	404	391
24	418	402	393	401	406	402	404	399	404	404	406	402	378	385	381	353	360	378	386	399	402	406	415	397	395
25	404	394	389	389	397	408	404	406	404	397	396	402	398	385	379	382	392	404	413	425	425	427	424	409	402
26	393	404	406	401	399	402	403	405	417	406	402	404	402	386	389	385	383	382	392	402	407	418	400	410	400
27	407	393	391	417	395	407	406	404	407	409	412	407	402	393	382	368	368	376	389	399	416	420	414	418	400
28 Q	413	412	412	407	408	408	410	413	414	412	410	404	399	397	386	377	381	383	392	398	415	417	429	425	405
29	426	424	424	426	410	382	378	377	365	377	405	404	389	361	367	379	392	397	410	429	447	451	447	422	403
30	403	404	402	405	407	406	404	401	402	405	407	399	401	404	402	394	397	407	417	426	428	430	425	422	409
31	423	420	421	418	417	414	410	412	411	423	421	418	414	406	402	394	397	401	412	412	415	419	420	419	413
Mean	410	410	406	408	407	403	402	406	403	402	406	407	402	394	388	385	386	392	400	410	420	422	418	415	404

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
 Mean values for periods of sixty minutes, Universal Time

Table 11. Agincourt. (Z.)

56,000 γ +

March, 1951.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1	240	253	244	245	222	204	215	227	231	225	224	217	222	226	225	217	221	223	224	229	232	229	229	227	227
2 Q	227	227	227	227	227	227	226	223	221	224	224	223	223	223	224	225	222	224	228	234	232	229	228	229	226
3	229	226	224	225	224	218	202	221	215	221	220	221	221	221	216	215	218	222	224	227	228	228	227	225	222
4 Q	225	224	223	223	222	208	211	223	223	224	223	222	221	220	218	214	215	218	220	217	221	223	224	226	220
5 Q	224	221	215	218	220	216	206	211	221	222	221	222	220	217	215	214	215	217	220	218	221	222	222	222	218
6	221	220	220	222	218	203	197	220	197	221	219	217	222	218	214	208	205	209	219	224	228	227	226	225	217
7 D	226	225	223	211	218	223	222	221	221	218	208	196	169	157	168	202	215	220	232	250	263	270	250	255	219
8	246	244	229	230	229	203	169	184	197	157	167	192	205	214	216	229	228	228	252	250	258	262	262	261	221
9	244	244	241	240	238	220	202	203	193	179	212	215	217	212	217	216	223	228	232	238	241	252	269	271	227
10 D	298	286	256	229	169	203	144	146	206	227	223	229	223	224	232	223	227	230	235	247	247	244	252	252	227
11	264	244	244	239	232	194	158	175	184	175	179	194	193	196	197	202	215	228	235	247	245	235	229	230	214
12	229	237	205	221	224	179	170	214	200	146	182	211	214	211	217	217	221	225	229	237	245	245	241	241	215
13 D	243	238	235	232	225	224	232	222	215	188	149	150	165	185	194	208	214	224	270	298	334	329	386	360	238
14 D	273	253	245	242	194	171	164	191	225	222	196	191	212	206	215	208	219	234	251	294	316	294	300	340	236
15	348	412	336	268	263	262	256	250	245	241	236	233	236	230	230	226	225	224	225	225	227	228	228	228	253
16	225	225	228	228	219	226	221	209	209	210	184	194	206	212	217	209	208	212	216	229	233	242	236	240	218
17	235	229	228	227	227	227	224	192	122	109	154	194	218	219	220	218	223	230	228	228	230	230	231	232	211
18	232	232	233	213	226	227	225	223	193	159	171	203	212	219	218	216	218	217	223	224	227	227	227	233	217
19	225	222	223	211	216	221	198	186	211	221	222	225	226	223	221	216	216	220	222	225	227	226	227	225	219
20	223	223	223	223	220	222	223	223	224	223	221	203	186	196	200	204	209	213	218	223	223	228	226	226	217
21 Q	225	224	224	224	225	225	221	199	203	211	217	216	220	221	217	212	210	213	217	222	226	229	229	230	219
22 D	228	232	245	225	235	234	242	233	229	223	211	174	163	183	198	209	206	228	262	288	320	292	330	335	
23	265	248	243	221	210	207	210	212	197	193	210	203	205	212	218	219	222	226	238	251	272	271	265	256	228
24	242	242	246	236	229	217	219	213	213	222	230	230	228	230	225	216	223	230	239	265	272	266	268	268	236
25	257	263	263	230	233	239	236	234	230	212	183	181	207	219	222	227	228	230	233	223	227	230	239	247	229
26	248	245	239	228	222	233	228	204	201	217	223	221	224	230	230	225	225	225	231	246	255	252	252	249	231
27	246	252	249	184	213	234	228	224	201	205	217	228	234	233	227	219	217	219	228	231	234	237	240	240	227
28 Q	236	234	234	234	236	235	233	230	228	229	229	231	233	234	231	228	228	228	231	234	234	234	234	228	232
29	227	228	228	225	205	207	198	152	128	189	228	234	228	223	214	200	206	214	231	247	259	272	303	312	223
30	284	282	271	260	257	249	239	238	236	228	234	234	236	231	227	219	213	216	221	223	223	225	228	228	238
31	228	228	228	225	225	221	219	221	219	214	218	227	228	225	225	221	217	223	224	224	228	231	231	233	224
Mean	244	244	238	228	223	219	211	210	208	205	208	211	213	215	216	216	218	223	231	238	245	246	248	251	225

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 12. Agincourt.

March, 1951.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ	Maximum 7° West +		Minimum 7° West +		Range '	Maximum 56,000 γ +		Minimum 56,000 γ +		Range γ
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		h. m.	γ	h. m.	γ	
1	0 51	418	4 46	355	63	2 38	27.2	2 25	5.8	21.4	1 43	262	2 35	188	74
2 Q	22 10	423	14 35	378	45	18 10	24.2	13 58	13.7	10.5	19 30	236	8 7	216	20
3	6 3	429	15 5	385	44	18 23	22.3	6 34	10.8	11.5	19 32	229	6 11	182	47
4 Q	20 25	425	5 51	384	41	6 0	23.7	5 32	9.1	14.6	22 49	227	5 32	195	32
5 Q	23 59	430	14 32	400	30	18 46	23.7	13 48	13.5	10.2	0 1	225	6 38	201	24
6	21 13	436	8 39	376	60	18 28	25.6	8 56	4.5	21.1	22 13	232	8 36	181	51
7 Q	20 49	440	12 44	326	114	13 55	32.7	3 17	6.8	25.9	21 4	307	12 41	139	168
8	20 37	439	9 42	335	104	9 55	48.8	2 25	4.3	44.5	21 5	286	9 58	91	195
9	23 32	436	15 42	364	72	22 4	27.6	23 26	-12.2	39.8	23 15	335	9 28	160	175
10 D	3 57	455	6 24	325	130	4 42	39.5	3 42	-13.2	52.7	0 34	314	6 37	114	200
11	5 58	433	16 23	363	70	6 13	36.1	7 18	8.5	27.6	0 7	274	6 13	143	131
12	2 13	457	9 43	306	151	9 58	36.8	3 5	0.4	36.4	20 38	247	9 47	98	149
13 D	22 18	544	14 54	322	222	10 57	41.7	23 50	-4.9	46.6	22 13	436	10 39	128	308
14 D	20 4	528	5 52	311	217	23 15	34.8	5 11	-0.4	35.2	20 3	461	6 42	132	329
15	1 13	611	3 42	374	237	0 50	40.3	1 17	-0.9	41.2	1 12	504	19 0	222	282
16	10 48	446	16 13	389	57	10 27	26.4	4 18	7.7	18.7	21 5	245	10 37	168	77
17	7 53	441	8 38	325	116	10 41	30.0	9 58	6.1	23.9	0 1	239	9 42	83	156
18	18 47	434	9 22	377	57	10 0	32.6	9 3	7.7	24.9	23 20	239	9 58	124	115
19	0 51	433	7 8	385	48	7 12	26.9	0 24	3.0	23.9	2 36	231	7 7	166	65
20	10 45	440	15 34	389	51	12 8	31.9	13 40	12.8	19.1	22 1	228	12 15	177	51
21 Q	21 22	449	17 5	392	57	18 42	25.2	13 38	10.8	14.4	22 59	233	7 22	192	41
22 D	20 45	513	16 57	309	204	17 50	38.0	23 54	2.0	36.0	23 31	413	12 0	156	257
23	21 38	444	11 45	346	98	18 32	33.6	3 10	-4.3	37.9	0 1	284	9 43	181	103
24	0 31	432	15 47	345	87	20 50	29.0	0 10	0.6	28.4	22 58	281	8 45	213	68
25	22 3	435	14 44	366	69	19 38	26.1	3 42	2.3	23.8	2 11	275	11 7	168	107
26	21 47	430	13 48	374	56	18 57	28.2	2 57	8.0	20.2	20 8	258	7 50	186	72
27	3 43	449	15 56	364	85	3 52	41.1	3 23	-4.2	45.3	1 39	256	3 47	141	115
28 Q	22 25	438	15 12	375	63	19 3	26.3	12 57	11.9	14.4	22 21	237	16 37	225	12
29	22 2	458	13 58	334	124	23 22	34.1	8 45	-1.5	35.6	23 5	344	7 51	66	278
30	21 28	435	15 35	392	43	0 3	26.7	14 16	6.8	19.9	0 5	296	16 55	211	85
31	23 5	428	15 25	377	51	17 58	26.8	6 52	8.2	18.6	23 5	236	8 9	211	25
Mean		452		360	92		31.2		4.0	27.2		286		163	123
No. days		31		31	31		31		31	31		31		31	31

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 16. Agincourt.

April, 1951.

Day	Horizontal Intensity						Declination						Vertical Intensity					
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ		Maximum 7° West +		Minimum 7° West +		Range		Maximum 56,000 γ +		Minimum 56,000 γ +		Range	
	h. m.	γ	h. m.	γ			h. m.	'	h. m.	'			h. m.	γ	h. m.	γ		
1 Q	20 34	441	2 10	397	44	18 41	24.5	13 19	11.5	13.0	23 30	243	10 31	205	38			
2	19 54	487	13 43	368	119	19 53	36.8	13 42	3.0	33.8	21 47	372	9 43	197	175			
3 D	20 40	492	7 4	309	183	2 9	34.5	1 18	-9.0	43.5	23 39	417	6 0	113	304			
4 D	21 38	453	7 23	268	185	13 53	29.0	23 57	-7.4	36.4	23 34	319	4 52	89	230			
5	0 1	446	5 7	300	146	4 23	53.2	2 1	-14.8	68.0	21 32	324	4 17	5	319			
6 D	20 39	432	7 33	325	107	13 27	31.0	23 58	-4.1	35.1	19 18	336	6 38	152	184			
7	22 27	442	3 33	343	99	3 18	55.8	0 2	-4.2	60.0	20 22	288	3 30	36	252			
8	21 36	435	15 46	368	67	7 46	29.8	0 3	6.7	23.1	21 58	300	7 45	176	124			
9	21 20	451	7 7	353	98	18 44	32.1	0 45	4.9	27.2	21 39	265	7 43	161	104			
10	2 42	439	14 5	376	63	20 18	30.2	1 35	-12.6	42.8	20 52	255	6 55	195	60			
11	22 52	463	15 10	378	85	7 9	26.1	1 17	1.0	25.1	23 12	284	6 49	185	99			
12	23 56	491	14 44	364	127	18 28	27.8	3 13	7.9	19.9	23 59	390	17 37	224	166			
13 D	0 22	520	13 2	351	169	12 39	34.2	3 43	-4.3	38.5	0 21	444	12 54	140	304			
14	22 53	437	14 43	373	64	7 37	30.4	1 46	-2.8	33.2	0 3	314	7 35	170	144			
15 Q	4 35	438	14 20	384	54	18 26	27.5	13 48	11.8	15.7	0 8	244	15 21	212	32			
16 Q	21 18	488	14 38	393	95	18 8	26.4	13 45	11.5	14.9	22 31	249	16 18	215	34			
17	22 12	437	16 7	381	56	18 38	26.5	0 47	0.4	26.1	0 38	255	9 30	200	55			
18 D	21 43	493	12 9	237	256	11 33	74.0	12 45	1.3	72.7	23 43	432	11 56	-47	479			
19	21 0	441	14 35	369	72	17 22	25.3	0 22	1.8	23.5	0 12	367	6 40	193	174			
20	22 31	608	15 52	315	293	5 10	39.5	22 48	-5.6	45.1	22 40	494	5 7	150	344			
21	20 46	470	12 6	278	192	10 42	37.2	4 0	-1.0	38.2	23 46	403	10 34	83	320			
22	19 52	496	7 28	312	184	4 38	40.8	22 55	2.8	38.0	19 53	344	4 27	62	282			
23	21 39	447	3 4	353	94	18 47	24.2	3 40	-15.6	39.8	1 37	264	6 4	176	88			
24	22 38	450	13 57	286	164	10 56	33.7	5 8	-4.4	38.1	19 7	324	8 25	117	207			
25	22 54	490	7 4	272	218	4 50	35.6	2 34	-29.6	65.2	23 27	412	4 43	47	365			
26	0 30	530	15 40	369	161	0 38	37.2	0 22	-8.3	45.5	0 12	444	7 25	218	226			
27	19 56	459	15 56	379	80	17 23	27.2	12 35	5.9	21.3	23 17	262	8 53	211	51			
28 Q	23 30	449	15 32	386	63	18 48	25.3	2 23	5.4	19.9	1 34	261	14 35	219	42			
29	22 23	447	15 25	353	94	16 47	28.0	2 50	-3.5	31.5	2 20	241	3 38	199	42			
30 Q	23 25	464	14 42	394	70	17 30	25.0	12 54	11.4	13.6	19 32	240	14 43	219	21			
31																		
Mean		468		344	124		33.6		-1.0	35.0		326		151	175			
No. days		30		30	30		30		30	30		30		30	30			

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 20. Agincourt.

May, 1951.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range	Maximum 7° West +		Minimum 7° West +		Range	Maximum 56,000 γ +		Minimum 56,000 γ +		Range
	h. m.	γ	h. m.	γ	γ	h. m.	'	h. m.	'	'	h. m.	γ	h. m.	γ	γ
1 D	(21 20	947)	9 30	96	(851)	5 48	50.1	21 19	-29.6	79.7	21 18	492	6 17	29	463
2 D	1 2	569	10 18	270	299	0 23	54.9	0 39	-6.7	61.6	1 4	424	8 47	120	304
3	21 1	439	7 55	353	86	8 5	30.8	0 3	-5.4	36.2	23 45	294	8 24	188	106
4	19 58	447	9 45	328	119	3 3	27.8	0 1	-3.6	31.4	2 31	308	9 30	150	158
5	21 55	451	15 20	379	72	17 5	24.9	11 22	10.7	14.2	23 38	273	4 42	209	64
6	7 32	450	14 43	367	83	18 30	24.8	7 30	4.6	20.2	0 8	259	7 16	178	81
7	21 42	440	13 30	379	61	18 7	24.5	3 17	8.3	16.2	23 6	248	17 4	208	40
8 Q	20 24	450	15 4	403	47	19 3	26.0	12 22	9.9	16.1	0 28	245	16 0	222	23
9 D	22 40	728	16 10	377	351	22 32	40.0	13 5	4.0	36.0	22 35	467	9 0	154	313
10 D	19 5	466	8 2	265	261	14 33	34.7	4 37	-1.5	36.2	0 5	286	6 16	7	279
11	20 34	474	13 31	368	106	18 15	27.5	23 53	7.7	19.8	23 41	281	7 40	167	114
12	0 17	461	17 43	376	85	17 40	29.4	0 10	4.6	24.8	0 1	272	5 40	166	106
13 Q	20 29	446	15 8	386	60	19 0	24.7	12 39	8.1	16.6	0 21	243	10 2	216	27
14	21 33	522	14 45	377	145	18 29	28.9	11 34	6.3	22.6	20 38	301	3 43	189	112
15	23 3	475	15 8	373	102	18 3	27.7	2 18	-11.4	39.1	2 13	314	5 36	197	117
16	22 42	467	14 57	373	94	17 22	27.1	0 48	4.0	23.1	23 17	280	5 30	194	86
17	22 0	534	15 46	352	182	16 47	27.9	2 5	3.2	24.7	21 57	363	5 7	84	279
18	20 22	466	15 35	362	104	3 28	28.6	2 56	-10.1	38.7	0 22	321	3 24	197	124
19	20 38	471	13 39	392	79	17 11	25.5	12 33	9.9	15.6	21 24	267	6 9	217	50
20 Q	19 29	460	14 40	387	73	20 0	28.4	11 57	6.4	22.0	21 47	248	16 43	207	41
21 Q	21 20	457	14 51	383	74	18 52	27.0	12 47	5.3	21.7	22 45	242	15 50	213	29
22 Q	20 13	465	15 18	379	86	17 27	29.6	11 26	6.7	22.9	23 18	242	14 17	203	39
23	19 53	491	12 43	360	131	19 41	30.1	11 42	-2.2	32.3	20 58	298	10 49	112	186
24	20 40	472	1 17	389	83	19 58	26.8	1 22	0.6	26.2	1 10	303	5 10	184	119
25	22 40	504	15 50	402	102	18 48	27.9	13 41	8.1	19.8	23 58	278	7 18	191	87
26 D	20 57	563	21 32	308	255	21 28	34.2	23 55	-3.6	37.8	20 58	376	15 25	196	180
27	0 5	469	3 33	223	246	4 2	34.9	3 23	-6.3	41.2	2 48	351	3 58	27	324
28	21 5	447	13 17	407	40	19 6	24.3	12 7	8.2	16.1	5 35	250	14 28	218	32
29	22 53	462	12 33	400	62	6 38	36.2	12 4	8.6	27.6	22 52	260	6 52	112	148
30	7 51	451	13 17	385	66	9 18	35.1	12 17	-0.5	35.6	21 47	253	9 43	92	161
31	20 35	479	14 17	408	71	17 40	22.7	11 52	7.3	15.4	20 36	250	5 12	215	35
Mean		497		355	142		30.4		1.7	28.7		299		163	136
No. days		31		31	31		31		31	31		31		31	31

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 24. Agincourt.

June, 1951.

Day	Horizontal Intensity						Declination						Vertical Intensity					
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range			
	15,000 γ +		15,000 γ +			7° West +		7° West +			56,000 γ +		56,000 γ +					
h. m.	γ	h. m.	γ	γ	h. m.	'	h. m.	'	'	h. m.	γ	h. m.	γ	γ				
1	20 5	491	14 57	392	99	5 46	26.0	4 40	1.3	24.7	20 4	255	4 57	169	86			
2	21 10	498	15 58	372	126	18 3	25.9	5 40	3.5	22.4	22 53	285	5 24	151	134			
3	0 0	465	0 43	402	63	8 10	23.7	0 57	4.8	18.9	0 24	296	6 28	197	99			
4	18 25	475	15 8	391	84	17 21	27.4	12 57	6.1	21.3	22 12	259	8 30	197	62			
5	20 27	490	15 17	396	94	20 9	26.1	12 39	3.2	22.9	1 30	255	6 20	202	53			
6 D	3 27	464	6 28	354	110	6 54	32.2	8 5	-0.9	33.1	22 43	248	7 41	7	241			
7	21 42	477	4 32	394	83	9 33	24.0	3 9	-1.2	25.2	23 59	253	3 34	178	75			
8	19 48	474	4 2	381	93	6 22	26.4	3 23	3.7	22.7	21 18	256	6 49	150	106			
9	21 37	451	15 0	376	75	16 44	22.4	2 30	4.0	18.4	19 8	238	10 47	213	25			
10 Q	20 25	467	15 17	399	68	17 41	27.3	12 34	5.5	21.8	23 50	243	16 50	196	47			
11	22 12	513	15 43	386	127	19 53	27.8	12 32	6.4	21.4	21 12	273	17 14	202	71			
12	19 32	468	9 17	391	77	20 50	27.3	1 37	-0.5	27.8	0 41	284	9 8	145	139			
13	20 51	472	13 0	401	71	19 38	24.4	12 5	5.9	18.5	0 1	248	15 33	207	41			
14	22 46	630	20 25	407	223	20 3	33.1	23 28	1.6	31.5	23 25	347	20 1	220	127			
15	20 25	495	6 37	350	145	6 28	26.9	6 1	0.8	26.1	0 1	301	6 32	115	186			
16	0 48	492	14 55	394	98	6 53	28.4	0 38	-1.2	29.6	0 30	287	6 57	163	124			
17 D	23 55	<u>928</u>	16 5	370	558	23 35	36.2	23 55	-30.5	66.7	23 23	<u>522</u>	17 5	209	313			
18 D	0 0	810	3 35	<u>-76</u>	<u>886</u>	3 32	<u>111.1</u>	0 7	<u>-35.5</u>	<u>146.6</u>	0 1	363	3 15	<u>-363</u>	<u>726</u>			
19 D	4 7	477	9 58	259	218	9 55	53.7	3 37	-31.0	84.7	17 10	260	6 0	-264	524			
20 Q	20 47	493	14 6	399	94	18 33	26.3	1 37	1.4	24.9	23 13	262	16 18	221	41			
21	6 38	475	15 21	374	101	6 57	32.2	12 56	5.8	26.4	0 1	245	6 50	138	107			
22 Q	23 42	466	13 58	411	55	18 50	24.0	13 3	5.9	18.1	21 22	245	9 57	209	36			
23 Q	20 1	466	14 50	403	63	22 8	22.7	1 31	7.7	15.0	1 26	246	7 58	210	36			
24 Q	22 18	488	15 34	409	79	21 35	23.0	13 25	8.8	14.2	22 18	253	6 46	219	34			
25 D	21 53	512	14 51	351	161	6 37	43.3	13 53	-0.2	43.5	21 56	332	6 38	42	290			
26	20 8	494	15 0	397	97	8 24	24.5	5 53	4.0	20.5	2 0	261	6 1	168	93			
27	21 14	484	16 12	404	80	7 20	24.4	12 40	8.1	16.3	23 57	238	7 10	114	124			
28	23 0	510	15 9	412	98	18 37	26.0	10 45	4.3	21.7	23 0	249	5 37	174	75			
29	19 30	491	15 15	419	72	20 12	26.4	11 54	8.1	18.3	22 48	249	3 38	189	60			
30	4 55	474	16 0	404	70	19 27	26.9	12 45	6.8	20.1	22 45	248	5 12	177	71			
31																		
Mean		513		371	142		31.0		0.2	30.8		277		139	138			
No. days		30		30	30		30		30	30		30		30	30			

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 28. Agincourt.

July, 1951.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ	Maximum 7° West +		Minimum 7° West +		Range γ	Maximum 56,000 γ +		Minimum 56,000 γ +		Range γ
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		'	h. m.	γ	h. m.	
1	23 59	745	5 7	360	385	19 5	27.8	23 57	-4.6	32.4	23 41	510	17 22	213	297
2 D	0 2	783	(4 50	-779)	(1562)	5 3	145.0	1 11	-43.2	188.2	4 0	462	6 2	-187	649
3 D	21 40	523	14 13	338	185	5 14	33.0	13 7	5.0	28.0	23 9	312	5 7	148	164
4	21 21	474	5 10	361	113	17 16	26.4	5 17	-5.0	31.4	0 1	285	5 2	62	223
5	22 33	482	16 16	399	83	19 34	26.4	13 4	7.0	19.4	0 5	259	6 38	167	92
6	18 53	469	12 11	411	58	18 44	26.3	13 11	9.8	16.5	23 45	250	19 8	206	44
7	20 4	504	16 18	397	107	18 31	27.2	12 6	9.9	17.3	0 14	250	15 51	218	32
8	21 55	499	14 51	392	107	19 47	26.1	12 26	5.8	20.3	23 22	268	16 33	194	74
9	17 55	477	14 55	387	90	19 10	27.8	12 21	5.3	22.5	1 15	304	17 5	196	108
10 Q	19 23	458	15 47	411	47	20 30	24.5	2 13	6.9	17.6	20 14	249	8 46	195	54
11	20 5	472	14 32	394	78	19 42	19.6	11 59	8.2	11.4	23 59	243	8 51	190	53
12 Q	21 19	490	16 21	411	79	18 10	27.2	12 34	8.6	18.6	23 59	250	5 40	207	43
13 Q	22 32	473	16 22	416	57	19 28	26.2	12 0	5.4	20.8	1 27	264	17 45	218	46
14 Q	23 15	481	15 34	403	78	18 11	28.4	12 6	5.4	23.0	23 36	250	18 18	212	38
15	21 4	532	23 28	391	141	19 5	27.5	12 16	5.6	21.9	22 59	327	7 14	195	132
16	21 49	495	14 46	381	114	8 14	27.2	4 8	0.4	26.8	0 1	270	11 18	143	127
17	21 21	500	14 37	393	107	19 12	34.2	9 33	-0.9	35.1	20 13	261	9 25	103	158
18	20 26	487	15 9	376	111	8 10	33.0	15 10	4.8	28.2	21 7	255	8 44	148	107
19	19 47	486	14 39	407	79	9 38	33.0	12 28	4.3	28.7	0 1	236	9 46	180	56
20	20 41	465	14 53	405	60	19 4	22.5	11 28	8.3	14.2	2 45	237	6 8	181	56
21	2 47	465	15 0	397	68	7 49	28.2	22 8	2.7	25.5	22 39	233	8 3	150	83
22	21 21	517	8 36	209	308	8 22	60.5	4 1	-7.1	67.6	23 13	272	8 31	-98	370
23	0 54	473	1 46	385	88	8 58	34.1	1 51	-33.3	67.4	1 41	321	9 10	167	154
24 Q	21 17	467	15 40	401	66	8 26	27.6	13 20	5.1	22.5	21 24	239	8 13	174	65
25	21 10	477	15 39	415	62	7 45	31.9	14 18	4.6	27.3	21 10	252	7 57	194	58
26 D	22 26	487	15 10	358	129	5 48	29.4	6 44	-2.5	31.9	23 53	282	6 41	62	220
27	23 19	482	15 34	397	85	9 15	39.8	2 30	-1.4	41.2	0 3	282	9 14	140	142
28 D	21 25	487	16 3	373	114	10 21	30.8	3 17	-27.3	57.9	3 10	286	6 11	69	217
29	3 50	469	15 51	387	82	9 6	29.0	3 47	3.9	25.1	0 4	250	4 32	153	97
30	19 47	462	15 31	399	63	18 47	24.2	13 24	7.9	16.3	23 32	271	10 50	186	85
31 D	20 20	550	15 26	298	252	6 18	40.7	5 35	-2.8	43.5	19 15	322	6 2	30	292
Mean		504		344	160		33.7		-0.1	33.8		282		142	140
No. days		31		31	31		31		31	31		31		31	31

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 29. Agincourt. (H.)

15,000 γ +

August, 1951.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	425	430	428	430	448	439	425	424	423	417	413	421	411	406	389	391	394	452	448	489	496	447	463	458	432
2	411	422	414	432	406	419	418	434	424	413	419	413	417	406	398	408	409	423	448	454	461	462	449	447	426
3 Q	444	448	439	432	437	437	435	434	427	420	404	418	411	412	413	410	411	419	434	445	456	465	453	457	432
4	437	448	442	427	427	436	439	439	438	436	434	432	428	416	388	379	401	431	448	446	472	482	465	430	434
5	440	438	414	424	433	439	442	442	437	434	435	435	432	429	418	422	432	442	445	462	475	457	440	452	439
6	438	440	443	445	445	444	444	444	439	437	437	437	433	401	376	359	385	418	441	452	458	476	448	440	432
7	446	449	451	442	427	435	437	442	445	432	425	432	432	424	416	410	402	419	436	449	467	466	451	447	437
8 Q	436	441	433	436	437	439	451	442	441	438	438	433	425	417	407	409	417	429	445	462	459	451	426	441	435
9	446	442	442	446	450	444	433	439	450	437	430	417	418	410	404	404	416	432	442	467	467	442	454	451	437
10 Q	445	445	444	445	445	451	449	435	435	427	438	429	408	396	409	407	406	414	441	466	466	468	468	447	437
11	445	455	455	444	445	437	443	455	455	440	437	440	427	426	445	438	430	431	452	458	463	474	462	450	446
12	447	445	432	430	442	435	431	432	441	447	442	431	429	418	417	414	434	447	455	455	455	458	442	442	439
13 D	438	441	444	426	395	412	324	421	404	416	432	422	405	364	369	386	404	419	448	465	486	456	444	438	419
14	436	435	436	438	437	438	441	440	436	434	422	410	415	409	393	393	409	421	434	444	465	442	434	437	429
15	440	428	421	435	437	438	439	441	436	434	436	434	424	404	389	396	399	435	456	463	489	455	466	444	435
16	451	452	447	443	437	440	445	442	371	331	308	377	414	405	395	399	414	426	442	448	452	451	456	445	421
17	442	447	444	442	442	440	440	440	443	439	437	439	434	416	409	386	378	409	437	454	442	445	432	430	432
18 Q	435	435	430	433	432	444	442	440	437	434	430	425	415	405	398	398	406	427	442	455	464	457	450	445	432
19	442	443	443	442	445	447	447	451	445	426	425	425	406	416	421	404	391	411	431	450	464	470	467	458	437
20 D	457	421	384	383	371	359	358	436	434	437	426	416	410	422	409	400	398	403	435	442	435	461	451	430	416
21 D	417	434	425	416												410	396	414	444	465	481	473	476	422	
22	408	398	391	388	406	363	320	328	313	411	410	420	384	405	419	417	415	422	434	437	437	452	457	440	403
23	429	430	434	442	441	440	437	447	445	442	432	425	421	415	416	414	401	429	457	468	456	467	471	422	437
24	414	425	433	412	362	409	406	446	430	404	391	414	410	396	390	401	419	421	435	450	455	447	440	442	419
25 D	445	427	427	395	440	424	436	425	363	389	425	409	404	403	402	394	379	377	420	438	458	458	450	447	418
26	445	399	420	431	435	441	436	421	383	429	429	426	414	399	396	412	420	430	445	447	467	480	431	430	428
27	432	432	436	452	437	446	443	441	432	436	422	430	424	415	389	380	407	424	445	450	457	447	441	435	431
28	441	447	442	442	452	441	443	438	426	437	432	424	416	407	408	409	414	425	440	458	451	451	447	445	435
29	431	442	438	442	426	442	432	450	437	422	425	422	400	410	400	396	397	421	441	447	455	451	447	439	430
30 Q	436	444	444	441	441	441	440	439	439	440	440	430	410	408	400	395	404	429	449	459	472	451	439	431	434
31	442	446	441	444	444	441	441	443	430	438	439	426	415	398	391	409	427	441	454	461	457	445	449	421	435
Mean	437	437	433	432	430	432	427	435	425	426	424	424	416	408	403	401	407	424	443	455	462	458	450	441	430

MAGNETIC DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 30. Agincourt. (D.) West.

7° + . . . '

August, 1951.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	16.2	14.3	13.5	13.5	14.2	16.0	16.5	15.9	13.3	10.5	7.8	7.5	4.9	6.7	10.4	14.3	19.9	24.4	27.6	23.1	21.2	20.5	15.3	8.5	14.9
2	14.1	12.9	21.4	12.8	8.0	20.0	23.6	13.7	11.4	15.6	12.3	5.5	6.2	9.8	14.4	18.5	22.3	25.2	23.3	22.5	20.5	19.3	18.0	16.9	16.1
3 Q	17.0	16.7	14.0	17.0	16.9	16.0	16.3	15.3	14.4	13.5	7.7	3.2	4.3	7.7	10.6	15.2	20.0	22.7	23.6	23.4	22.4	20.3	18.8	17.1	15.6
4	16.1	17.0	6.1	9.5	13.3	14.8	15.9	15.7	15.1	14.0	10.9	7.1	5.7	5.3	8.4	16.3	23.4	25.0	25.3	28.0	24.2	20.6	16.8	17.0	15.5
5	17.0	13.4	12.5	14.2	16.2	17.4	18.4	17.3	16.6	14.3	12.0	10.2	9.5	10.7	14.1	18.9	21.6	22.9	25.9	23.8	21.4	19.9	18.7	16.4	16.8
6	14.6	13.4	17.0	16.9	16.2	16.2	16.0	15.2	13.5	12.4	9.9	6.1	5.2	3.7	7.8	15.3	24.3	25.3	26.0	25.3	23.7	21.6	20.6	19.4	16.0
7	17.7	16.9	16.0	11.9	13.1	15.1	15.0	15.3	15.4	14.9	17.0	12.7	8.0	8.9	12.7	16.2	21.5	25.9	28.9	28.0	22.7	19.7	15.3	15.9	16.9
8 Q	14.3	14.5	14.3	14.4	16.1	12.7	15.6	15.9	15.9	15.0	12.7	9.8	7.5	7.1	9.9	14.3	19.8	22.6	23.2	22.5	21.4	19.5	19.0	17.2	15.7
9	16.4	17.9	17.8	16.9	15.8	13.4	14.8	16.9	20.0	14.3	12.0	16.0	8.3	8.7	11.6	14.9	19.8	21.0	22.3	21.3	21.3	20.9	18.5	16.2	16.6
10 Q	16.9	17.8	17.2	16.9	16.7	15.2	14.8	12.7	14.7	15.9	12.3	8.2	7.9	13.1	13.6	15.7	19.5	21.8	22.7	21.5	21.0	19.6	16.9	18.6	16.3
11	18.2	17.2	16.4	12.2	7.7	13.6	16.3	19.6	12.5	11.5	14.8	6.8	7.0	10.3	15.4	15.3	17.7	22.3	21.3	21.0	19.5	15.9	15.7	10.9	15.0
12	11.9	16.0	11.4	9.6	14.3	14.0	13.7	17.3	22.3	19.8	12.8	11.2	10.0	9.6	13.6	17.1	20.0	20.0	21.8	19.0	17.3	15.5	14.9	16.0	15.4
13 D	15.9	16.4	15.4	7.3	13.9	6.1	22.3	7.2	8.7	16.3	13.4	9.5	10.0	16.5	21.3	23.7	26.4	25.8	20.3	20.9	15.3	16.4	15.4	15.4	14.7
14	17.2	18.1	18.2	17.8	17.3	17.1	16.4	15.0	14.5	13.7	13.7	12.4	7.2	8.1	11.4	18.1	21.9	24.5	24.1	21.9	16.9	15.5	16.2	16.3	16.4
15	15.9	11.3	8.7	15.9	17.7	17.8	18.6	23.2	15.6	12.3	10.4	8.8	9.7	12.8	19.5	24.7	26.8	30.0	28.2	23.0	22.3	22.3	18.7	18.1	18.0
16	16.9	17.8	17.2	15.0	25.8	18.7	19.1	21.9	27.0	23.7	30.6	12.7	5.5	9.5	15.4	20.0	23.6	26.4	25.4	21.6	18.2	15.9	15.4	15.9	19.1
17	16.9	16.9	17.0	17.2	17.0	16.4	15.4	14.5	13.6	12.8	10.5	7.8	6.3	5.8	9.6	13.9	23.7	28.7	25.5	24.0	24.5	21.0	15.9	14.6	16.2
18 Q	13.0	11.2	14.2	15.8	16.3	19.6	22.6	19.6	15.9	13.7	11.5	8.7	6.8	8.7	11.4	15.9	19.3	23.2	25.4	25.0	22.2	19.6	17.3	16.4	16.4
19	16.3	17.0	16.4	14.6	15.1	14.9	15.3	17.2	19.4	13.6	8.1	5.0	7.9	7.2	10.9	15.0	21.2	24.5	28.7	27.3	23.7	20.6	18.3	17.2	16.5
20 D	15.0	3.6	1.5	7.1	-5.1	13.2	8.2	13.4	12.6	14.1	19.1	19.5	14.6	11.2	12.5	21.1	23.4	23.7	25.9	26.2	24.4	15.5	17.8	16.9	14.9
21 D	7.0	11.2	14.2	10.7												21.8	19.4	23.0	26.8	21.2	21.7	12.6	12.4	8.5	
22	-3.9	7.6	2.3	10.7	9.4	15.4	28.7	31.6	55.1	29.1	18.9	13.7	16.5	15.6	13.4	17.5	22.5	24.3	23.9	22.5	19.5	16.5	17.3	16.5	18.0
23	15.9	17.5	16.8	16.9	16.8	16.5	15.9	14.9	12.9	12.2	9.2	10.9	11.9	12.9	15.6	18.0	22.2	27.2	24.3	24.6	23.0	18.1	17.8	5.8	16.6
24	15.5	16.9	9.8	9.5	13.9	11.1	26.0	18.1	13.4	23.2	25.4	14.7	10.8	13.7	20.8	22.8	24.7	25.2	26.3	23.1	20.2	18.0	14.6	16.1	18.0
25 D	16.2	14.1	10.9	9.5	15.6	13.2	14.5	12.8	27.2	13.6	7.2	10.0	10.0	12.1	14.6	18.2	21.6	28.5	24.8	23.0	17.9	18.3	16.9	16.5	16.1
26	16.3	2.2	10.2	8.9	22.3	27.3	14.7	22.7	29.5	14.2	13.0	11.3	8.8	10.7	14.9	26.1	25.1	22.3	21.4	19.1	16.9	16.4	8.7	11.4	16.4
27	16.8	17.0	13.6	11.4	15.9	21.0	24.4	19.4	12.8	13.7	13.9	11.4	10.9	12.2	14.3	21.6	25.5	24.9	22.4	22.3	20.1	18.1	16.9	15.6	17.3
28	16.2	14.3	14.0	14.5	18.9	14.6	15.2	16.4	24.3	19.1	11.9	11.1	12.7	13.1	17.4	20.1	23.8	25.8	25.6	23.5	20.3	15.3	16.7	14.3	17.5
29	8.2	14.6	14.9	18.5	13.5	20.2	23.6	17.3	15.6	15.9	17.4	13.9	14.9	16.8	19.1	21.8	25.5	26.4	23.8	22.1	18.7	16.6	14.9	14.9	17.9
30 Q	16.1	16.9	16.7	16.0	14.0	16.3	16.2	14.9	14.1	13.1	11.4	9.4	9.6	11.0	14.9	20.0	25.8	28.7	29.5	28.2	23.7	21.9	20.0	18.1	17.8
31	19.0	17.2	16.3	17.0	16.3	15.9	15.4	21.3	17.3	14.1	8.7	6.8	9.0	11.4	21.6	29.6	30.5	28.1	24.1	20.9	19.1	17.2	17.2	17.1	18.0
Mean	15.1	14.7	13.8	13.7	13.9	16.0	17.7	17.0	17.5	15.3	13.2	10.0	8.9	10.4	14.0	18.7	22.8	24.9	24.7	23.3	20.8	18.7	16.9	15.6	16.6

PUBLICATIONS OF THE DOMINION OBSERVATORY

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes, Universal Time

Table 31. Agincourt. (Z.)

56,000 γ +

August, 1951.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 D	288	295	272	254	248	232	241	238	235	227	227	222	215	218	218	219	221	227	232	237	246	250	277	313	244
2	280	258	161	174	197	179	132	173	211	219	216	222	226	225	227	226	226	222	230	232	239	245	245	236	217
3 Q	234	238	230	230	230	229	232	232	227	223	209	219	220	220	219	214	214	219	224	226	230	237	233	236	226
4	232	230	221	209	225	232	230	227	227	230	231	232	233	235	236	232	225	222	229	232	242	259	273	258	233
5	243	248	248	239	235	229	221	225	227	231	238	237	235	235	230	220	218	217	218	222	237	242	236	238	232
6	237	235	231	229	227	226	226	226	226	231	233	233	233	227	232	225	220	217	214	213	225	239	241	233	229
7	231	229	230	233	236	231	233	232	232	222	224	226	230	227	225	221	213	212	224	229	238	249	256	252	230
8 Q	244	242	238	233	226	222	211	222	229	232	235	233	234	236	238	232	230	225	223	226	227	237	236	237	231
9	238	232	231	227	226	214	191	197	202	220	226	215	216	227	230	226	226	230	236	239	248	248	248	242	226
10 Q	239	233	230	227	223	223	203	207	225	227	230	228	225	227	228	224	230	233	235	240	242	239	248	242	229
11	233	230	227	225	212	222	219	199	203	212	189	197	210	209	212	206	210	223	232	232	235	245	247	265	220
12	250	238	244	232	218	218	219	221	207	194	201	200	196	210	217	222	228	230	236	238	248	266	268	253	227
13 D	246	236	230	216	130	233	7	148	149	210	236	229	217	212	212	230	242	260	291	311	265	253	244	241	219
14	236	235	232	230	229	230	232	233	230	233	230	218	220	221	221	229	230	233	238	242	250	261	256	245	234
15	238	242	233	229	232	227	199	194	225	236	236	232	230	232	230	229	232	242	241	244	253	242	244	236	232
16	236	235	236	238	189	213	215	203	143	82	78	156	222	236	244	248	253	252	248	245	243	239	245	238	214
17	236	233	232	232	233	233	233	233	233	233	236	235	232	227	227	227	240	248	253	259	265	280	269	252	241
18 Q	242	230	233	233	232	213	200	212	227	233	238	236	233	230	228	228	225	229	233	236	235	231	236	232	229
19	230	230	228	228	228	225	227	213	183	188	210	224	226	221	220	219	223	232	233	232	235	240	242	235	224
20 D	236	248	196	207	114	79	23	139	202	216	218	216	212	220	230	232	236	236	248	251	262	277	261	259	209
21 D	274	233	184	228	230	203	124	100	135	171	151	178	207	207	221	245	248	272	288	291	295	321	306	316	226
22	252	247	229	196	152	113	16	69	70	149	154	188	207	215	226	238	237	242	245	250	264	267	263	262	198
23	264	252	246	241	237	237	237	237	229	229	229	226	224	219	223	226	232	233	241	250	250	255	301	320	243
24	276	258	232	181	134	164	142	219	232	207	178	214	221	231	234	238	245	246	248	249	249	254	262	255	224
25 D	249	253	247	195	119	202	242	225	62	163	220	226	235	237	241	242	240	255	268	272	280	258	249	243	226
26	250	271	251	217	144	155	193	188	114	150	173	190	214	223	225	228	223	229	237	255	255	258	271	265	216
27	252	247	237	210	215	190	167	189	182	228	226	232	232	229	232	235	238	241	245	251	253	268	259	255	229
28	249	229	232	223	188	206	229	229	203	221	226	226	235	234	234	235	238	241	244	252	256	271	258	264	234
29	254	240	232	211	203	176	189	215	231	229	244	237	238	237	239	244	245	252	253	258	260	259	253	251	235
30 Q	243	241	241	238	237	237	238	241	238	237	238	242	237	237	237	229	229	238	248	252	258	259	257	250	242
31	241	242	238	240	236	237	238	196	212	229	235	232	230	226	227	230	231	232	235	238	244	247	255	254	234
Mean	247	243	231	223	206	208	191	203	199	210	214	220	225	226	228	229	231	236	241	246	250	255	256	255	228

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 32. Agincourt.

August, 1951.

Day	Horizontal Intensity						Declination						Vertical Intensity					
	Maximum		Minimum		Range		Maximum		Minimum		Range	Maximum		Minimum		Range		
	15,000 γ +		15,000 γ +				7° West +		7° West +			56,000 γ +		56,000 γ +				
	h. m.	γ	h. m.	γ	γ	h. m.	'	h. m.	'	'	h. m.	γ	h. m.	γ	γ			
1 D	20 6	518	16 15	371	147	18 6	32.9	12 29	3.7	29.2	23 33	344	16 11	212	132			
2	19 25	469	2 10	336	133	2 15	35.1	1 36	-1.9	37.0	0 26	289	2 33	49	240			
3 Q	21 49	480	10 31	396	84	19 24	24.3	11 47	0.1	24.2	2 13	249	10 32	202	47			
4	20 54	502	15 26	366	136	19 2	29.1	2 49	-0.4	29.5	22 26	284	3 42	201	83			
5	20 26	489	2 14	395	94	18 57	27.0	12 58	7.8	19.2	1 48	253	16 7	211	42			
6	21 44	488	15 41	345	143	17 49	27.8	13 31	1.7	26.1	21 58	249	19 0	209	40			
7	20 37	483	16 39	392	91	18 54	30.5	12 33	6.8	23.7	22 14	261	17 9	203	58			
8 Q	19 36	469	14 50	401	68	18 28	23.8	13 35	6.2	17.6	0 10	248	6 21	203	45			
9	20 0	481	14 58	394	87	8 5	24.5	12 51	5.4	19.1	21 2	252	6 48	186	66			
10 Q	19 55	477	13 8	386	91	17 40	23.2	12 22	6.8	16.4	22 40	252	6 58	186	66			
11	21 18	492	23 52	396	96	17 39	24.9	23 59	-5.1	30.0	23 48	275	10 36	177	98			
12	19 57	476	14 46	399	77	9 15	27.4	0 1	-5.0	32.4	22 8	283	9 13	174	109			
13 D	21 3	501	6 52	219	282	6 33	35.4	4 30	-21.0	56.4	19 12	317	6 47	-141	458			
14	20 50	479	15 8	378	101	17 48	26.0	12 30	5.5	20.5	21 47	271	11 10	213	58			
15	20 15	532	14 38	371	161	17 34	31.7	2 17	1.5	30.2	20 13	273	7 2	161	112			
16	22 30	478	10 45	280	198	10 50	53.0	12 26	4.2	48.8	17 50	257	9 3	6	251			
17	2 52	466	16 18	362	104	17 21	31.7	13 38	5.0	26.7	21 30	280	13 38	221	59			
18 Q	20 22	466	14 18	393	73	18 56	26.3	1 44	5.8	20.5	0 5	248	6 7	189	59			
19	22 6	477	16 37	388	89	18 20	30.2	11 32	3.1	27.1	22 7	246	8 50	171	75			
20 D	21 28	478	6 26	302	176	19 22	28.3	3 47	-13.2	41.5	21 34	289	6 50	-147	436			
21 D								(1 34	-33.6)		23 53	384	6 17	56	328			
22	0 10	465	6 8	208	257	8 8	58.0	0 1	-20.8	78.8	0 26	282	6 8	-100	382			
23	21 49	497	16 4	390	107	17 14	30.5	23 18	-5.7	36.2	23 3	388	13 26	212	176			
24	20 33	461	4 36	311	150	4 33	36.9	4 12	-4.3	41.2	0 1	301	4 32	73	228			
25 D	4 22	532	8 47	327	205	4 35	49.7	3 58	-13.4	63.1	20 9	286	8 48	-12	298			
26	21 15	499	8 23	327	172	4 44	36.2	2 38	-9.2	45.4	1 31	303	8 27	90	213			
27	20 36	467	14 52	364	103	5 52	33.8	3 36	7.4	26.4	21 8	281	6 13	157	124			
28	19 28	466	14 17	394	72	17 20	27.1	1 13	5.6	21.5	21 24	277	4 57	166	111			
29	5 25	462	12 29	387	75	6 10	28.5	0 15	0.4	28.1	21 45	261	6 17	149	112			
30 Q	20 46	488	16 3	389	99	18 38	31.2	12 9	8.2	23.0	20 47	261	16 4	225	36			
31	20 13	479	15 10	380	99	16 44	32.3	11 20	5.8	26.5	22 41	261	7 32	178	83			
Mean		484		358	126		31.9		-0.3	32.2		281		132	149			
No. days		31		31	31		31		31	31		31		31	31			

TERRESTRIAL MAGNETIC FORCE: HORIZONTAL COMPONENT

Mean values for periods of sixty minutes, Universal Time

Table 33. Agincourt. (H.)

15,000 γ +

September, 1951.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean	
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24		
1 Q	441	443	448	439	439	437	436	434	435	433	429	429	421	404	398	398	413	423	436	446	455	450	435	445	432	
2 Q	442	445	447	441	441	440	437	434	435	433	429	427	411	400	393	402	425	445	452	461	464	460	435	445	436	
3 Q	441	445	444	445	449	447	443	435	435	436	430	421	413	397	397	392	403	420	435	451	469	462	470	443	434	
4 Q	445	450	452	450	433	433	439	440	437	436	435	431	421	404	403	408	410	416	436	454	461	461	456	457	436	
5	449	449	439	442	440	440	441	440	436	429	426	424	420	413	398	390	400	414	425	437	476	491	464	463	435	
6	426	446	449	454	454	445	436	423	413	388	404	424	419	404	402	400	406	420	444	457	449	465	447	440	430	
7	442	439	444	446	444	441	440	439	440	444	441	435	420	403	395	397	401	413	430	440	451	451	459	451	433	
8	444	443	447	445	435	427	431	430	434	435	435	429	414	394	390	397	408	423	437	446	452	451	450	441	431	
9	439	431	436	428	431	440	439	434	436	441	439	440	405	383	404	414	415	411	418	428	444	457	449	439	429	
10	420	414	440	440	407	420	383	274	405	398	374	394	384	363	379	388	394	406	418	431	436	444	441	441	404	
11	439	414	431	436	435	439	434	415	429	445	442	433	419	429	414	413	426	446	466	475	596	467	420	441	441	
12	414	420	429	414	398	383	409	415	399	423	424	414	393	367	372	403	405	418	433	440	435	464	446	445	415	
13	416	423	424	424	434	390	378	418	415	420	423	418	403	377	348	345	393	415	413	456	458	446	497	410	414	
14	402	405	429	404	379	404	408	385	374	400	416	410	399	377	380	382	383	392	415	425	421	430	436	426	404	
15	421	405	416	432	434	426	430	390	311	410	413	385	390	390	356	355	383	389	408	409	436	433	425	435	404	
16 D	431	441	436	405	389	158	362	418	368	225	337	297	348	325	317	338	360	388	404	422	474	507	429	400	374	
17	387	394	400	416	379	363	423	383	367	394	394	378	404	396	383	368	385	408	421	430	439	447	406	426	399	
18	425	431	398	383	404	403	413	425	424	410	424	431	423	408	394	389	392	402	413	425	418	429	429	431	413	
19	434	441	440	438	442	431	413	400	421	436	434	441	431	415	384	291	247	344	453	601	412	419	389	397	415	
20 D	390	415	415	395	290	196	201	354	193	122	337	422	401	340	393	365	384	412	396	442	435	460	439	430	360	
21 D	409	410	404	401	396	348	363	365	275	265	339	339	374	383	370	366	380	409	415	443	431	440	400	419	381	
22 D	416	419	416	389	334	301	310	331	327	414	436	380	386	411	383	369	380	404	400	375	422	434	430	434	388	
23	426	426	442	450	381	416	327	321	348	375	405	409	414	398	370	394	415	425	435	438	417	422	441	414	405	
24	406	429	426	411	407	352	393	388	389	421	405	414	411	379	410	397	400	407	422	434	414	430	430	427	408	
25 D	422	432	425	424	448	442	417	389	402	428	416	378	381	238	275	268	321	343	580	642	583	591	740	936	459	
26	489	370	334	236	420	415	329	376	385	392	396	400	396	385	379	378	384	394	412	418	423	410	415	417	390	
27	428	427	458	494	454	449	443	415	395	410	416	416	396	389	395	412	423	423	441	430	435	430	435	417	426	
28	433	451	414	423	420	419	420	420	422	423	421	420	418	417	410	410	415	420	428	428	428	432	426	441	424	
29	431	425	431	435	434	432	428	431	427	430	431	431	420	407	371	349	375	404	416	410	422	411	424	428	417	
30 Q	420	416	424	417	416	405	401	417	424	425	431	427	422	415	403	395	394	410	423	430	436	438	441	442	419	
31																										
Mean	428	427	428	423	416	399	401	402	394	398	413	410	406	391	382	379	391	408	431	447	446	456	449	449	416	

MAGNETIC DECLINATION
 Mean values for periods of sixty minutes, Universal Time

7° + . . . '

September, 1951.

Hour U. T. Day	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	Mean
1 Q	17.2	14.5	14.1	15.9	16.1	16.0	15.5	14.9	14.1	13.3	11.8	10.4	9.0	10.0	14.0	20.0	23.7	26.1	26.3	24.5	21.2	18.4	16.0	16.2	16.7
2 Q	17.3	14.9	15.4	16.2	16.4	15.9	15.5	14.9	13.7	13.6	12.4	9.3	7.8	9.0	13.2	18.9	23.6	24.7	24.8	22.7	19.5	16.5	15.9	15.5	16.1
3 Q	13.2	15.8	16.4	16.3	18.7	16.5	15.4	16.4	12.3	11.4	9.0	4.5	3.4	7.2	14.2	19.2	23.7	25.5	24.5	21.9	20.2	17.7	15.9	16.9	15.7
4 Q	17.7	17.0	16.9	14.0	15.8	13.7	14.5	15.0	14.0	12.7	10.5	8.1	6.4	8.1	13.1	18.1	19.6	22.8	23.7	23.2	21.4	18.6	16.8	17.6	15.8
5	17.9	17.3	13.9	16.9	16.8	15.8	15.1	14.2	12.8	11.4	11.3	6.8	5.4	7.8	11.3	16.1	21.1	24.6	27.3	26.0	22.3	23.7	22.8	20.6	16.7
6	14.7	16.8	17.0	17.2	16.5	15.6	12.8	12.5	7.3	1.9	5.5	1.1	0.9	4.6	9.1	15.2	21.6	25.3	26.4	26.0	26.0	20.3	16.9	17.4	14.5
7	15.9	15.6	16.3	16.9	16.8	15.2	15.4	14.7	14.3	12.2	10.5	7.2	5.4	6.5	11.9	17.8	23.7	26.1	27.3	27.3	21.9	17.7	16.4	16.0	16.1
8	16.4	16.4	16.4	15.6	8.7	10.6	12.1	12.5	11.9	12.3	11.9	9.5	8.6	8.7	15.5	18.2	23.3	24.8	26.0	23.2	20.0	17.2	15.9	16.5	15.5
9	16.3	15.9	13.2	13.0	13.6	13.8	14.1	13.1	12.7	18.9	13.6	6.8	9.2	22.3	25.1	27.2	24.6	25.0	25.9	24.8	21.6	17.8	16.2	15.3	17.5
10	13.5	13.2	17.3	15.5	10.3	8.1	6.6	32.2	7.8	4.9	9.8	20.6	18.7	25.0	29.4	29.9	29.1	28.7	27.0	23.4	20.0	18.0	16.9	16.9	18.5
11	15.5	14.8	16.3	18.0	16.4	13.4	12.6	14.5	18.0	6.3	8.3	7.6	14.9	16.4	17.2	23.7	25.9	23.6	23.1	23.4	21.4	15.9	5.2	17.0	16.2
12	15.3	25.8	18.2	9.2	9.5	12.2	11.9	16.8	16.4	12.7	9.9	9.4	11.8	15.0	23.2	28.0	27.1	27.2	25.0	23.2	20.0	17.1	17.2	12.9	17.3
13	-3.0	15.9	17.0	14.1	7.8	15.9	9.9	9.1	9.1	9.0	9.9	7.3	7.3	9.0	14.9	33.4	34.1	31.9	29.1	26.8	22.3	21.0	16.5	17.2	16.0
14	16.8	10.5	0.5	10.4	10.6	15.0	22.5	25.4	29.2	15.9	10.0	7.1	8.7	13.0	14.1	19.0	22.5	24.5	24.5	23.6	22.0	17.8	16.0	13.6	16.4
15	10.0	1.3	12.3	16.4	17.2	27.2	12.0	18.7	12.3	4.1	9.5	14.0	21.8	16.7	20.5	27.3	27.8	27.8	26.4	28.1	22.3	20.0	18.1	16.3	17.9
16 D	7.4	3.6	9.9	10.5	7.9	55.2	1.4	8.9	14.5	43.5	42.3	32.3	26.0	19.7	22.5	32.2	29.7	29.6	25.8	21.4	17.0	10.0	11.0	-1.4	20.0
17	-2.4	10.9	11.8	12.1	28.1	28.1	14.8	29.6	28.1	28.2	17.2	28.9	19.8	16.7	20.0	20.2	25.9	25.0	26.3	20.0	18.1	15.4	9.9	17.2	19.6
18	12.9	7.2	1.3	8.1	10.9	16.0	12.8	10.8	10.2	16.9	15.2	10.6	9.0	10.9	14.2	19.0	22.4	24.3	26.0	26.0	25.0	20.9	16.7	16.4	15.1
19	14.1	15.5	15.9	16.8	14.3	11.5	10.9	18.4	14.9	2.2	3.1	6.3	5.4	5.9	6.8	8.6	18.0	34.1	26.7	14.0	25.9	23.6	19.6	19.1	14.6
20 D	5.4	5.1	10.9	15.0	11.4	33.6	29.4	34.6	29.6	61.3	27.0	16.1	16.4	17.2	19.1	28.2	22.7	18.1	22.2	18.2	23.6	15.5	12.5	0.9	20.6
21 D	-15.5	7.8	14.5	26.9	16.4	7.1	16.3	20.4	26.3	34.1	10.5	20.0	20.9	21.6	20.0	24.0	24.2	20.6	21.4	14.5	15.5	12.4	-0.2	9.6	16.2
22 D	15.4	1.4	15.0	13.2	38.2	15.9	30.9	25.8	27.2	27.0	12.2	25.9	35.0	28.0	18.0	21.3	20.1	21.0	16.9	21.5	19.0	19.0	15.7	4.2	20.3
23	16.3	-0.1	5.8	20.9	13.8	16.3	4.4	25.2	25.0	21.4	18.1	15.9	14.5	14.5	22.3	20.9	21.0	21.4	21.4	19.7	18.0	10.9	14.6	10.4	16.3
24	-7.7	6.4	19.6	16.0	21.4	19.0	21.4	21.4	26.0	17.8	22.7	22.8	25.2	22.7	20.0	20.4	21.8	22.6	20.9	20.3	16.9	15.0	16.3	16.8	18.6
25 D	6.9	11.3	15.0	15.5	21.0	25.9	17.0	11.5	6.4	13.6	27.8	35.9	36.0	31.1	25.0	42.9	17.2	10.7	-14.1	-9.5	9.1	8.2	-9.6	-1.3	14.8
26	-3.6	29.1	30.1	24.3	8.2	15.4	23.2	14.1	13.6	14.7	15.9	13.6	12.3	12.3	14.5	17.6	20.0	23.6	22.2	20.9	20.0	20.1	19.6	19.5	17.6
27	13.1	18.6	18.0	8.1	14.6	18.1	17.2	12.7	10.0	14.0	9.8	10.4	8.7	10.9	18.6	19.1	20.1	23.0	20.7	20.0	18.6	18.3	19.4	18.6	15.9
28	18.8	2.8	16.6	17.7	18.2	17.3	16.0	15.8	15.8	15.2	14.9	14.2	13.7	13.2	13.5	16.4	19.1	20.9	20.5	19.2	18.6	18.6	19.1	18.2	16.4
29	9.9	17.2	17.8	16.8	17.1	16.4	14.9	15.9	11.9	11.4	12.3	11.6	10.3	11.2	14.2	23.2	25.3	26.9	23.2	24.3	20.4	16.9	17.7	17.8	16.9
30 Q	14.7	12.4	15.9	15.5	16.7	12.8	18.7	20.4	15.9	15.7	13.2	11.4	10.5	11.4	13.1	16.5	19.2	21.4	22.5	21.8	19.8	17.9	17.2	16.8	16.3
31																									
Mean	10.7	12.5	14.7	15.4	15.7	17.8	15.2	17.7	16.0	16.6	13.9	13.5	13.4	14.2	16.9	22.1	23.2	24.4	23.0	21.3	20.2	17.3	14.8	14.3	16.9

TERRESTRIAL MAGNETIC FORCE: VERTICAL COMPONENT
Mean values for periods of sixty minutes, Universal Time

Table 35. Agincourt. (Z.)

56,000 γ +

September, 1951.

Hour U. T. Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Mean
	to 1	to 2	to 3	to 4	to 5	to 6	to 7	to 8	to 9	to 10	to 11	to 12	to 13	to 14	to 15	to 16	to 17	to 18	to 19	to 20	to 21	to 22	to 23	to 24	
1 Q	250	241	232	238	239	238	238	241	238	241	241	241	242	237	238	232	237	238	241	245	249	253	249	244	241
2 Q	244	241	231	241	239	240	243	241	241	238	238	241	244	244	243	236	237	242	243	247	247	247	241	240	241
3 Q	244	241	241	243	231	224	228	228	245	244	237	232	231	230	230	232	237	242	248	253	254	247	248	248	239
4 Q	241	238	237	237	235	238	243	242	242	241	241	244	244	242	242	241	242	244	249	251	252	249	247	249	243
5	246	249	249	241	241	241	238	237	232	232	241	238	238	234	229	228	231	234	241	241	251	259	265	285	242
6	284	254	244	240	237	237	234	238	211	221	228	237	242	237	235	229	231	234	238	252	252	254	249	251	240
7	248	251	248	243	242	242	240	240	237	236	237	238	236	228	225	228	236	241	247	252	255	249	246	240	241
8	236	236	237	236	220	211	213	231	240	240	235	236	234	231	231	233	234	237	241	237	238	241	241	234	
9	243	241	220	228	234	228	237	236	234	201	184	201	214	222	216	225	234	236	248	251	253	259	264	266	233
10	272	265	194	198	206	190	172	30	80	149	175	196	181	195	216	240	248	258	261	258	255	254	251	249	208
11	251	263	260	248	248	243	247	230	193	235	240	234	220	205	208	223	228	236	259	296	390	440	366	287	260
12	318	208	246	269	229	231	248	246	222	234	219	236	240	241	243	248	252	252	260	267	266	277	300	363	255
13	253	276	261	240	146	152	160	230	259	260	254	243	247	237	237	235	246	252	272	278	299	317	390	320	253
14	293	302	225	225	198	243	207	189	199	215	230	237	243	243	254	254	252	256	263	264	267	263	258	254	243
15	257	248	248	246	207	198	228	166	119	158	191	186	178	192	219	237	254	259	265	264	266	273	267	270	225
16 D	266	227	246	228	206	-18	128	228	187	13	5	42	135	177	206	231	254	269	277	272	296	416	302	323	205
17	293	282	222	240	181	159	187	152	130	143	165	169	204	223	230	251	258	254	254	253	253	284	318	277	224
18	261	247	220	210	194	195	236	251	247	240	237	246	246	243	243	244	254	270	270	270	266	264	255	244	
19	252	249	248	254	245	236	243	204	200	229	242	247	246	242	236	239	292	336	368	404	286	309	282	272	265
20 D	286	242	192	172	71	-7	49	18	-96	-131	105	235	242	227	278	260	293	319	338	342	304	335	306	289	195
21 D	248	269	275	177	142	130	147	164	46	-9	39	147	214	224	245	265	277	289	278	289	289	306	324	324	212
22 D	289	250	254	239	62	121	145	101	110	180	224	192	187	213	249	271	282	277	298	315	301	304	298	278	227
23	270	251	211	172	188	194	153	171	147	193	235	252	254	259	259	263	265	259	254	265	277	297	289	286	236
24	275	265	266	216	183	147	139	186	198	239	233	243	234	248	273	263	270	275	280	284	289	293	286	276	244
25 D	269	258	259	255	224	198	204	175	195	236	178	104	118	132	203	224	310	407	488	448	406	394	428	292	265
26	127	211	-183	52	227	298	268	275	273	280	281	286	287	287	287	283	280	277	278	281	281	281	283	278	241
27	293	323	342	319	328	321	304	272	253	265	262	242	262	265	259	253	250	250	259	266	268	272	279	288	279
28	308	257	269	273	269	264	263	262	260	261	260	259	260	258	253	252	252	255	259	262	267	264	268	263	
29	261	264	265	261	262	258	258	249	246	255	258	259	255	255	249	251	262	288	277	278	290	288	280	275	264
30 Q	287	271	267	264	252	255	238	244	246	248	255	261	259	259	255	256	256	255	261	264	262	262	258	259	258
31																									
Mean	263	254	231	231	213	204	212	206	195	200	213	221	228	231	240	244	255	264	274	279	278	287	285	275	241

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 36. Agincourt.

September, 1951.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ	Maximum 7° West +		Minimum 7° West +		Range '	Maximum 56,000 γ +		Minimum 56,000 γ +		Range γ
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		h. m.	γ	h. m.	γ	
1 Q	21 0	457	14 40	395	62	17 50	27.2	13 22	7.2	20.0	0 1	254	2 39	228	26
2 Q	19 45	467	14 17	387	80	18 0	25.3	12 53	7.2	18.1	19 45	249	2 13	224	25
3 Q	20 40	476	14 47	389	87	17 43	26.3	12 7	2.7	23.6	20 13	255	5 3	219	36
4 Q	21 20	471	14 16	390	81	17 35	24.0	12 37	6.1	17.9	20 0	256	4 51	229	27
5	21 30	540	15 0	383	157	18 56	27.7	12 45	3.9	23.8	23 58	312	15 0	225	87
6	19 23	483	9 35	376	107	18 58	27.7	11 36	-2.8	30.5	0 7	317	8 56	191	126
7	22 25	462	14 55	392	70	19 40	28.6	12 19	4.5	24.1	19 50	257	13 26	225	32
8	21 0	458	14 25	380	78	18 26	26.8	4 39	6.2	20.6	19 25	242	5 57	198	44
9	22 5	470	13 15	372	98	15 21	28.2	11 53	3.3	24.9	23 36	270	10 6	166	104
10	2 33	472	7 26	191	281	7 13	58.0	6 0	-0.9	58.9	0 48	279	7 5	-13	292
11	21 50	783	14 59	385	398	8 13	33.4	22 25	-7.5	40.9	21 52	523	8 29	164	359
12	1 22	534	13 53	347	187	1 45	45.6	23 58	-46.9	92.5	23 53	497	1 31	50	447
13	22 38	646	15 31	325	321	15 48	38.1	0 1	-45.3	83.4	22 39	606	4 41	107	499
14	2 10	464	8 40	350	114	8 12	36.9	2 11	-18.7	55.6	2 8	355	8 41	166	189
15	20 50	467	8 13	251	216	5 15	44.0	1 15	-3.7	47.7	21 13	281	8 10	31	250
16 D	21 28	599	5 32	37	562	5 9	73.1	23 59	-17.7	90.8	21 27	546	5 28	-117	663
17	21 22	491	5 13	356	135	5 7	43.7	0 6	-18.6	62.3	22 32	337	4 58	74	263
18	21 59	441	3 47	364	77	19 53	27.3	2 50	-5.0	32.3	18 41	279	5 12	159	120
19	19 10	653	16 30	204	449	17 20	42.2	9 50	-0.1	42.3	19 12	587	7 53	163	424
20 D	21 12	477	9 8	-99	576	9 36	80.7	23 33	-20.3	101.0	21 37	375	8 41	-232	607
21 D	19 40	474	9 39	223	251	10 3	42.7	0 47	-30.0	72.7	22 31	360	9 43	-50	410
22 D	21 8	467	6 20	198	269	4 13	54.2	23 2	-17.7	71.9	18 53	336	4 11	-18	354
23	3 5	515	7 33	230	285	7 35	33.1	1 27	-28.5	61.6	1 17	344	7 35	92	252
24	21 8	458	5 34	268	190	3 58	40.0	0 33	-9.8	49.8	21 3	309	5 44	99	210
25 D	(23 10	1162)	14 56	218	(944)	22 52	69.2	18 50	-45.0	114.2	18 35	581	11 28	69	512
26	0 1	900	3 16	38	862	3 33	83.9	0 51	-49.1	133.0	0 24	431	(2 25	-584)	(1015)
27	3 22	630	8 23	365	265	1 17	26.9	3 39	-6.1	33.0	2 52	404	8 9	198	206
28	1 34	474	2 8	401	73	1 56	29.1	1 31	-28.3	57.4	1 2	412	2 52	199	213
29	0 28	446	15 17	339	107	17 18	31.7	0 18	2.8	28.9	17 28	311	8 11	238	73
30 Q	22 55	443	15 25	390	53	18 21	22.7	12 40	8.9	13.8	0 35	297	6 51	226	71
31															
Mean		543		295	248		39.9		-11.7	51.6		362		98	264
No. days		30		30	30		30		30	30		30		30	30

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 40. Agincourt.

October, 1951.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range γ	Maximum 7° West +		Minimum 7° West +		Range '	Maximum 56,000 γ +		Minimum 56,000 γ +		Range γ
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		h. m.	γ	h. m.	γ	
1	22 48	452	17 6	402	50	18 23	23.7	13 7	9.9	13.8	22 42	264	18 2	249	15
2	21 6	461	6 4	384	77	17 48	23.0	2 22	6.3	16.7	2 22	280	6 41	194	86
3	23 25	449	16 9	395	54	18 46	23.1	13 28	10.5	12.6	19 46	264	14 10	250	14
4 Q	19 50	454	15 21	400	54	18 35	22.3	12 48	10.0	12.3	23 58	259	15 12	250	9
5	22 40	452	15 35	406	46	18 12	22.3	0 58	7.2	15.1	0 52	262	6 55	245	17
6 Q	20 27	458	15 30	413	45	17 40	21.8	13 24	10.2	11.6	2 35	259	14 40	246	13
7	19 57	510	23 19	391	119	16 53	30.8	5 57	8.7	22.1	22 9	436	13 18	211	225
8 D	0 1	456	7 47	155	301	7 47	49.8	2 33	-8.3	58.1	0 15	373	7 45	-74	447
9	11 7	450	9 24	354	96	9 24	40.0	0 5	7.3	32.7	22 28	300	9 24	150	150
10	3 15	459	17 18	351	108	11 13	36.2	2 36	-12.7	48.9	22 41	311	11 12	172	139
11	11 13	437	16 4	372	65	6 42	30.9	0 38	-7.4	38.3	0 17	287	6 25	157	130
12	20 53	456	5 50	408	48	17 43	24.9	13 8	5.0	19.9	20 52	267	11 17	204	63
13	23 16	528	14 13	397	131	11 34	25.3	23 16	-23.2	48.5	23 11	451	11 46	196	255
14	23 59	444	16 39	371	73	9 20	32.8	23 56	6.8	26.0	0 33	320	9 44	217	103
15	21 3	462	15 14	392	70	7 29	24.5	2 24	0.8	23.7	23 48	272	16 44	242	30
16	3 26	455	16 27	398	57	20 2	26.8	3 18	6.1	20.7	22 54	322	5 50	184	138
17 D	19 58	461	8 33	166	295	7 33	47.4	23 38	-6.9	54.3	20 0	374	5 44	-34	408
18 D	3 36	470	8 15	258	212	9 7	48.8	3 11	-3.6	52.4	17 30	298	9 18	79	219
19 D	0 45	461	6 45	311	150	2 28	39.6	23 58	-22.7	62.3	23 52	387	2 23	144	243
20	1 30	460	0 1	351	109	7 47	36.9	0 1	-21.6	58.5	0 57	334	8 5	170	164
21	10 50	448	13 29	389	59	3 46	30.1	5 15	8.8	21.3	0 10	272	4 34	205	67
22	21 7	449	15 45	398	51	16 8	30.9	2 39	7.3	23.6	2 10	269	15 10	236	33
23	23 53	450	1 58	414	36	6 20	23.2	0 15	10.9	12.3	23 22	268	8 2	220	48
24 Q	22 18	464	14 21	428	36	19 18	19.0	4 57	10.9	8.1	0 37	261	15 33	237	24
25 Q	19 45	465	16 2	427	38	18 26	17.8	13 54	11.9	5.9	1 12	253	15 42	232	21
26	20 3	470	21 57	395	75	22 40	24.5	12 57	8.7	15.8	22 22	312	11 31	223	89
27	22 15	447	5 5	399	48	4 53	22.8	5 13	9.5	13.3	5 8	279	16 26	242	37
28 D	(19 50	1160)	14 37	263	(897)	21 0	33.5	19 40	-66.7	100.2	18 33	521	19 45	-105	626
29	22 9	415	1 8	352	63	17 19	21.7	1 13	10.5	11.2	0 3	293	16 52	254	39
30	23 14	429	15 0	380	49	6 22	32.3	13 3	11.8	20.5	19 2	277	5 53	195	82
31 Q	22 10	445	14 55	389	56	18 11	22.3	13 51	11.2	11.1	19 50	265	14 55	245	20
Mean		480		365	115		29.3		0.5	28.8		309		182	127
No. days		31		31	31		31		31	31		31		31	31

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 44. Agincourt.

November, 1951.

Day	Horizontal Intensity					Declination					Vertical Intensity				
	Maximum 15,000 γ +		Minimum 15,000 γ +		Range	Maximum 7° West +		Minimum 7° West +		Range	Maximum 56,000 γ +		Minimum 56,000 γ +		Range
	h. m.	γ	h. m.	γ		h. m.	'	h. m.	'		h. m.	γ	h. m.	γ	
1 Q	23 30	461	14 53	396	65	18 11	23.0	13 9	10.9	12.1	18 43	260	12 6	246	14
2	0 1	446	4 15	393	53	20 16	25.1	3 43	6.4	18.7	23 52	287	5 23	241	46
3 D	19 35	450	3 16	345	105	8 45	36.2	3 18	-9.7	45.9	3 52	344	8 58	158	186
4	20 40	438	5 50	<u>301</u>	<u>137</u>	6 15	27.0	4 5	-0.9	27.9	0 33	370	5 53	124	246
5	20 32	445	3 32	376	69	3 57	31.0	13 18	9.0	22.0	0 40	298	3 47	166	132
6	4 20	455	19 47	408	47	19 25	26.0	4 45	4.2	21.8	19 52	293	8 50	200	93
7	23 24	459	2 30	368	91	17 1	28.1	2 6	-2.3	30.4	2 47	318	6 54	191	127
8	20 0	464	2 22	412	52	20 25	24.6	14 13	10.0	14.6	2 54	283	15 27	234	49
9	4 49	473	14 56	409	64	17 44	25.4	4 15	1.3	24.1	3 49	253	7 56	191	62
10 Q	1 12	464	17 18	430	34	18 5	19.9	13 56	12.8	<u>7.1</u>	22 25	253	16 5	240	<u>13</u>
11	16 1	461	21 43	433	<u>28</u>	21 36	20.0	12 47	12.8	7.2	23 59	264	16 20	240	24
12	11 5	454	1 17	374	80	8 4	35.1	1 20	-15.4	50.5	1 15	287	8 34	173	114
13 D	20 32	472	16 11	372	100	17 54	31.6	10 16	1.8	29.8	23 8	<u>433</u>	9 28	<u>64</u>	<u>369</u>
14 D	5 36	464	7 35	343	121	8 17	<u>39.6</u>	1 12	<u>-17.5</u>	<u>57.1</u>	21 0	382	7 31	161	221
15 D	3 17	453	2 55	368	85	3 27	36.8	3 2	-5.9	42.7	0 47	291	7 26	174	117
16	23 55	455	17 14	420	35	10 37	21.5	0 1	9.0	12.5	0 35	269	11 3	226	43
17	19 18	<u>484</u>	20 24	380	104	21 14	29.1	14 12	9.0	20.1	20 48	322	16 0	221	101
18 Q	23 56	449	1 47	411	38	20 33	19.5	2 52	9.0	10.5	1 50	270	3 44	237	33
19 Q	21 34	467	4 53	417	50	18 18	20.8	12 54	12.1	8.7	4 42	257	15 31	239	18
20	19 25	469	15 23	411	58	20 5	25.3	14 8	9.6	15.7	21 42	270	16 33	234	36
21	19 5	462	14 43	427	35	20 56	18.2	14 45	10.9	7.3	1 25	263	14 43	236	27
22	20 20	477	18 25	420	57	23 5	27.8	0 38	-1.2	29.0	23 17	272	15 0	235	37
23	18 58	456	20 43	412	44	20 33	23.1	13 55	7.5	15.6	21 8	270	4 52	224	46
24	22 58	452	14 51	394	58	16 7	29.1	2 2	8.7	20.4	1 15	255	14 23	227	28
25	1 58	457	21 47	400	57	15 20	22.8	21 58	2.8	20.0	21 57	266	8 58	217	49
26	23 0	457	13 18	405	52	13 42	25.5	12 17	12.8	12.7	0 6	256	14 32	218	38
27 Q	20 57	460	16 5	425	35	17 57	20.1	12 22	9.7	10.4	3 9	249	15 10	235	14
28	10 20	461	22 22	395	66	18 17	24.6	22 41	-8.1	32.7	22 33	301	15 0	229	72
29 D	10 42	462	16 9	385	77	10 3	25.0	2 2	-8.3	33.3	23 12	270	9 42	210	60
30	10 38	455	14 30	414	41	7 40	30.2	0 1	8.2	22.0	0 40	270	8 0	206	64
31															
Mean		459		395	64		26.4		3.6	22.8		289		207	82
No. days		30		30	30		30		30	30		30		30	30

DAILY EXTREMES OF MAGNETIC ELEMENTS

Table 48. Agincourt.

December, 1951.

Day	Horizontal Intensity						Declination						Vertical Intensity					
	Maximum		Minimum		Range	Maximum		Minimum		Range	Maximum		Minimum		Range			
	15,000 γ +		15,000 γ +			7° West +		7° West +			56,000 γ +		56,000 γ +					
h. m.	γ	h. m.	γ	γ	h. m.	'	h. m.	'	'	h. m.	γ	h. m.	γ	γ				
1	12 15	456	16 13	388	68	18 0	24.2	13 49	6.9	17.3	23 50	259	11 42	221	38			
2	12 5	454	5 36	393	61	5 30	35.5	4 37	6.0	29.5	23 28	264	5 35	165	99			
3	11 5	451	1 47	408	43	9 28	24.6	3 0	10.5	14.1	23 59	269	10 4	215	54			
4	22 25	465	14 43	406	59	21 5	31.9	13 2	7.0	24.9	21 23	303	11 12	218	85			
5	20 45	458	14 37	396	62	17 18	20.7	3 0	6.1	14.6	0 1	269	10 55	224	45			
6 Q	21 45	458	16 37	424	34	21 8	20.1	13 27	10.9	9.2	21 44	245	16 38	226	19			
7	12 11	467	17 26	420	47	18 3	25.6	14 22	9.7	15.9	22 0	246	15 16	209	37			
8 D	12 0	484	15 46	353	131	11 52	38.7	1 45	-18.1	56.8	20 38	311	8 23	122	189			
9 D	4 5	477	9 35	338	139	9 32	42.0	3 52	-11.5	53.5	8 41	295	8 40	82	213			
10	14 8	458	16 4	380	78	5 23	34.3	4 53	2.0	32.3	22 44	266	5 23	195	71			
11	10 45	446	7 58	329	117	6 58	42.2	9 20	4.2	38.0	2 23	263	7 48	115	148			
12	12 12	453	13 53	411	42	12 15	19.8	13 55	8.8	11.0	0 8	250	5 33	215	35			
13 Q	22 9	456	3 50	424	32	9 24	21.2	4 56	12.1	9.1	19 7	243	4 43	218	25			
14	1 3	456	22 30	410	46	23 45	26.9	0 41	10.7	16.2	23 59	305	15 26	230	75			
15	10 51	450	19 46	380	70	19 42	31.2	14 25	4.6	26.6	1 20	330	16 32	221	109			
16	20 48	456	16 43	407	49	20 23	19.3	5 2	8.4	10.9	1 58	255	14 46	230	25			
17	21 49	456	16 22	373	83	19 42	31.5	3 25	-1.6	33.1	23 29	271	14 45	221	50			
18	20 59	466	18 11	398	68	21 39	25.7	3 23	-8.1	33.8	23 33	281	8 15	229	52			
19	21 45	459	14 50	376	83	10 33	24.3	15 22	7.0	17.3	23 43	265	9 46	220	45			
20	3 32	449	15 44	408	41	9 21	28.9	2 43	-5.0	33.9	0 1	261	9 47	204	57			
21	22 3	461	16 22	415	46	22 49	20.8	14 2	11.4	9.4	23 45	249	15 42	226	23			
22 D	3 43	<u>513</u>	17 50	366	147	3 47	36.0	3 32	-12.1	48.1	20 51	<u>350</u>	3 42	172	178			
23	22 26	440	2 7	382	58	10 46	31.2	2 8	0.7	30.5	2 0	323	2 38	217	106			
24 Q	22 35	449	17 9	411	38	18 35	20.1	2 29	12.0	8.1	2 41	244	14 50	231	<u>13</u>			
25 Q	0 8	444	16 20	416	28	20 25	18.1	1 33	13.1	5.0	20 50	243	15 50	229	14			
26 Q	22 36	454	16 45	421	33	18 55	17.5	14 22	11.2	6.3	1 35	237	5 28	221	16			
27	21 38	492	23 8	402	90	5 22	18.4	23 7	2.5	15.9	21 40	237	4 45	214	23			
28 D	2 7	447	8 21	<u>-148</u>	<u>595</u>	8 36	<u>66.8</u>	4 42	<u>-26.0</u>	<u>92.8</u>	20 30	283	8 14	<u>-235</u>	<u>518</u>			
29	12 25	433	0 32	387	46	14 39	21.3	0 39	11.2	10.1	1 23	254	16 15	235	19			
30	21 39	462	16 30	418	44	10 0	21.7	14 32	12.8	8.9	23 59	253	10 23	215	38			
31 D	11 48	453	15 47	335	118	17 48	32.6	8 38	5.4	27.2	20 34	296	10 3	123	173			
Mean		459		375	84		28.2		3.7	24.5		272		188	84			
No. days		31		31	31		31		31	31		31		31	31			

DIURNAL INEQUALITIES OF THE TERRESTRIAL MAGNETIC ELEMENTS
Departure from mean of the day not adjusted for non-cyclic change

Table 49. Agincourt. HORIZONTAL FORCE (gammas) (All Days) 1951. Grid with columns 0 to 24 and rows for each month, year, winter, equinox, and summer.

Table 50. Agincourt. DECLINATION (minutes) (All Days) 1951. Grid with columns 0 to 24 and rows for each month, year, winter, equinox, and summer.

Table 51. Agincourt. VERTICAL FORCE (gammas) (All Days) 1951. Grid with columns 0 to 24 and rows for each month, year, winter, equinox, and summer.

