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RECORD OF OBSERVATIONS AT
AGINCOURT MAGNETIC OBSERVATORY
1963

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Price: 50 cents

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AGINCOURT MAGNETIC OBSERVATORY, 1963

Geographic Latitude 43°47'N
Geographic Longitude 79°16'W

Geomagnetic Latitude 55.0°N
Geomagnetic Longitude 347.0°E

Introduction

Observations and continuous photographic recording of the magnetic elements date back to 1898(1) at Agincourt Magnetic Observatory. This magnetic work was carried out as usual during 1963. Although industrial construction advanced closer to the observatory site and artificial disturbances were discernible in the recordings, it is believed that the values reported in this publication have not been impaired.

The personnel consisted of A. A. Onhauser, officer-in-charge, with assistants M. H. Onhauser, and D. L. McKeown who joined the staff on September 11.

Absolute Instruments

Elliott Magnetometer No. 48(1) continued as the standard for declination. The Agincourt Schuster-Smith magnetometer(2)(3) and QHM's Nos. 258 and 391(4) were used for horizontal intensity. Inclination was determined with earth inductor No. 1911, and a proton precession magnetometer(5)(6) was used for total intensity.

The International Magnetic Standard corrections adopted for these instruments are as follows:

for D, I.M.S. = Elliott 48 -0.8'
for H, I.M.S. = QHM 258 +3.7γ (0.00024H)
for H, I.M.S. = QHM 391 +0γ
for H, I.M.S. = Schuster-Smith +0γ
for I, I.M.S. = Earth Inductor 1911 -0.25'
for F, I.M.S. = Proton Precession Magnetometer +0γ (4257.60 cps per oersted)

Variometers

The three-component, normal sensitivity, photographic recorders, la Cour and Ruska were operated continuously. The Ruska recordings were adopted as standard on April 1, 1963. (The la Cour recordings had been used as standard for Z since 1939 and for D and H since 1941). The la Cour magnetograms were then used as auxiliary. The la Cour Z variometer was changed to low sensitivity recording at the end of October.

An electrical recording magnetometer, Type T 613, Dominion Observatory design(7) operating continuously, provided a visible record of the variations in H, D, and Z. It was used as a low sensitivity set in the event of severe magnetic storms, and for determining at once the state of the magnetic field, quiet or disturbed.

The scale values per mm of these variometers during 1963 were:

	H	D	Z
la Cour	5.1γ	0.9'	6.1γ (Jan to Oct 31) 16.4γ (Nov and Dec— low sensitivity)
Ruska	5.4γ	1.1'	5.2γ (Jan to Oct 31) 5.3γ (Nov and Dec)
T613	9.2γ	2.0'	8.7γ

Absolute Observations and Base-line Values

Absolute observations were made at least once a week. Base-line values were adopted by using French curves and getting the best fit to the observed values. The r.m.s. differences of the observed minus the adopted base-line values were 0.4' in declination, 2 gammas in horizontal component, and 3 gammas in the vertical component.

Notes on the Tables

Greenwich mean time (U.T.) is used throughout. Table 46 lists the three-hour range indices in D, H, and Z, as well as the K-indices which are sent regularly to the International Association of Geomagnetism and Aeronomy for publication. The magnetograms were also read each month for sudden commencements, bays, and pulsations, and the results sent to the IAGA.

Annual Means

Year	D	H	Z	I	F
				West	North
	° ,	γ	γ	° ,	γ
1953	7 15.2	15487	56219	74 35.9	58313
1954	16.0	522	209	33.8	313
1955	16.4	561	194	31.3	308
1956	16.8	601	218	29.4	343
1957	19.1	642	203	26.8	339
1958	19.7	686	196	24.2	344
1959	18.8	739	207	21.2	369
1960	19.7	797	205	18.1	383
1961	19.7	864	177	13.8	374
1962	20.6	929	147	09.7	363
1963	23.0	990	121	05.8	354

References

- (1) Agincourt Magnetic Observations, 1911, Report of the Meteorological Services of Canada for the year 1911, Part VI, p. 524, Ottawa, 1914.
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- (3) Smith, F. E., Phil. Trans. Roy. Soc. vol. 223, pp. 175-200, 1922.
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- (5) Serson, Paul H., A Simple Proton Precession Magnetometer, 13 pp. Report, Dominion Observatory, Ottawa, 1962.
- (6) Resolution No. 66, Comptes Rendus de la XII^e Assemblée Générale de l'U.G.G.I., Helsinki, 1960.
- (7) Serson, Paul H., An Electrical Recording Magnetometer, Can. J. Phys. vol. 35, p. 1387-1394, 1957.

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 1 Agincourt

H = 15,500 γ +

January 1963

Hour U.T. Day \	0 to 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	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
1	460 456 452 450 443 445 450 448 452 456 453 455 454 451 447 435 437 440 439 442 447 456 458 457 449	
2 Q	460 460 458 456 456 455 456 457 460 461 461 463 465 466 459 454 444 442 451 459 466 469 473 473 459	
3	466 470 466 465 461 465 464 465 466 470 470 470 471 466 463 456 454 457 461 466 472 475 475 474 466	
4	467 465 465 462 466 469 469 470 475 479 482 485 485 481 470 447 445 451 459 455 459 461 466 463 467	
5	451 451 450 450 450 450 451 451 449 456 460 459 457 455 449 441 435 434 435 439 447 453 455 458 449	
6 Q	458 459 459 457 457 456 456 457 459 461 462 463 465 464 456 447 441 446 451 456 462 466 462 462 458	
7	458 452 446 450 450 456 462 462 463 461 461 462 460 451 436 425 430 446 453 461 462 461 458 454	
8	457 456 453 454 456 453 453 457 452 456 458 459 461 458 451 440 433 440 450 459 467 468 466 466 455	
9 Q	464 462 462 459 458 461 463 463 464 464 465 467 465 455 445 438 440 449 457 464 470 470 468 460	
10	464 458 453 450 455 459 460 464 465 468 466 465 464 463 460 456 453 451 454 455 460 465 466 466 460	
11	466 466 465 465 464 464 467 472 474 476 477 478 480 480 471 461 455 450 441 450 455 468 466 464 466	
12	463 461 460 457 457 457 460 460 459 457 459 461 462 462 461 455 447 451 459 468 483 482 473 478 462	
13 D	467 441 440 435 433 432 443 458 451 467 466 453 467 460 448 437 439 431 433 447 452 456 446 436 447	
14 D	444 444 439 449 442 443 445 455 444 454 439 454 465 460 443 429 414 413 424 417 432 448 459 457 442	
15 D	443 443 447 450 463 429 436 454 441 452 469 459 456 453 448 444 440 438 436 441 445 449 455 460 448	
16	442 423 441 451 452 455 452 446 450 451 456 456 456 459 434 413 427 433 436 439 412 431 436 445 441	
17	444 449 454 446 446 434 449 443 438 459 457 460 463 459 451 449 441 413 434 439 445 452 453 459 448	
18	455 448 448 452 447 452 451 453 455 464 455 464 469 464 455 454 446 444 449 453 453 457 446 439 453	
19	441 454 456 455 459 470 461 461 443 455 468 466 465 458 434 439 439 429 437 449 454 444 445 444 451	
20	450 459 461 457 458 459 455 460 459 460 461 464 460 455 449 446 445 450 455 456 460 461 462 457	
21	464 462 461 459 457 458 457 460 457 457 461 461 462 460 455 450 452 449 452 454 459 464 463 461 458	
22	458 457 458 457 457 458 457 457 457 462 466 465 467 464 460 451 447 451 457 461 467 464 467 465 460	
23	456 457 457 452 453 457 463 465 469 472 472 471 468 463 460 452 448 454 457 462 467 466 467 471 462	
24	468 467 464 467 472 464 463 463 468 472 466 467 472 467 458 453 451 458 464 459 446 441 443 462	
25	437 438 442 456 456 451 451 451 451 453 454 457 459 453 446 435 428 435 437 443 452 461 463 463 449	
26	463 462 461 458 455 459 461 461 462 466 467 467 468 468 464 462 464 468 467 463 463 466 469 471 464	
27 Q	472 472 471 469 471 471 470 472 472 474 469 467 469 469 468 467 468 467 463 463 464 468 469 469 469	
28 Q	469 468 468 466 467 468 468 471 471 472 472 472 471 469 470 471 474 478 475 472 474 474 474 471	
29	474 473 472 472 472 472 473 473 475 474 473 472 472 471 469 470 472 477 482 479 469 462 455 462 471	
30 D	462 453 471 453 446 433 436 438 431 416 451 434 425 428 436 461 450 450 460 475 475 450 456 450 448	
31 D	437 424 410 422 395 379 374 354 356 380 410 444 430 413 386 390 380 402 431 444 445 456 457 455 411	
Mean	457 455 455 455 454 453 454 456 454 459 461 462 463 460 453 447 443 444 450 454 458 460 461 460 455	

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 2 Agincourt

D = 7° W + ...'

January 1963

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	19.6	19.2	19.3	20.0	19.8	18.2	19.8	20.2	19.6	20.6	20.0	19.1	17.9	16.8	17.8	20.3	23.1	23.7	23.7	24.1	23.6	22.6	21.7	20.7	20.5	
2 Q	19.7	19.4	19.5	19.7	19.9	20.1	20.6	20.8	20.8	20.7	20.1	19.1	17.7	17.0	18.6	20.1	21.4	22.3	22.4	21.8	20.9	20.5	19.8	20.2		
3	19.4	18.9	19.1	19.6	19.7	20.1	20.4	20.7	20.2	20.0	19.6	19.6	18.1	17.7	19.5	21.1	22.1	22.6	23.2	22.4	21.4	20.7	20.4	20.2		
4	20.3	20.0	19.5	19.4	19.8	19.1	20.4	20.6	20.7	20.6	20.5	19.9	18.7	17.4	16.6	20.0	22.4	25.8	25.9	25.2	24.1	23.1	22.2	21.2	21.0	
5	20.3	19.6	19.7	20.4	20.5	20.1	20.9	21.3	23.9	22.5	19.9	19.1	19.9	18.9	17.7	18.9	20.9	22.2	23.5	23.7	23.2	22.2	21.4	20.8	20.9	
6 Q	20.4	20.2	19.9	20.3	20.5	20.7	21.1	21.1	20.8	20.6	20.5	20.3	19.7	18.1	16.6	18.3	20.4	22.8	23.8	23.6	22.5	21.3	20.2	19.9	20.6	
7	20.2	18.3	19.5	19.3	19.3	21.4	20.4	20.7	20.5	20.4	20.5	20.5	19.9	18.1	17.8	19.1	21.2	25.8	25.4	24.5	23.3	21.4	20.6	20.3	20.8	
8	19.7	19.5	19.7	20.3	20.8	21.0	21.7	21.5	20.1	20.7	21.0	21.1	19.9	18.7	17.7	18.5	21.2	24.7	25.1	24.1	23.4	22.5	21.4	20.6	21.1	
9 Q	20.1	19.7	19.5	19.8	20.1	20.7	20.6	20.4	20.2	20.2	20.3	20.2	19.4	18.6	17.5	18.6	20.5	22.2	23.3	23.2	22.8	21.9	20.6	20.3	20.4	
10	20.3	20.1	20.2	19.3	19.6	20.3	20.9	21.0	20.6	20.6	20.5	20.5	19.9	20.2	20.0	19.6	20.9	21.4	22.1	22.2	22.1	21.3	20.6	20.1	20.6	
11	19.7	19.4	19.5	19.8	19.8	20.2	20.5	19.9	19.6	19.8	20.1	19.8	18.7	17.3	16.9	17.6	19.4	21.0	24.5	28.4	26.8	24.3	23.2	21.1	20.7	
12	20.2	19.6	19.4	19.5	18.4	19.7	20.3	20.0	20.0	20.2	20.5	20.5	20.2	18.5	16.9	17.8	20.4	23.4	24.8	24.4	23.7	22.5	22.0	20.7	20.6	
13 D	20.5	21.6	18.5	8.6	16.9	17.1	19.9	15.0	27.0	18.5	23.9	26.2	23.1	19.7	18.6	17.4	20.4	24.1	25.2	25.6	23.9	22.7	21.7	15.4	20.5	
14 D	17.7	18.4	17.0	15.2	14.8	16.9	20.8	24.5	25.4	26.2	31.2	31.9	24.1	22.2	24.6	26.7	24.2	23.8	26.1	26.8	23.0	23.6	20.8	20.6	22.9	
15 D	18.8	18.4	18.4	15.0	24.0	16.6	21.9	25.1	19.7	33.4	22.2	21.5	21.4	22.0	21.5	19.4	22.1	22.9	24.3	25.6	25.2	22.9	21.6	20.5	21.8	
16	19.3	4.6	17.9	21.1	20.4	20.6	20.5	25.2	31.3	19.7	20.4	21.4	23.5	22.2	22.1	25.4	23.9	23.1	22.8	25.2	26.2	24.5	21.6	18.8	21.7	
17	20.6	18.5	19.8	18.9	19.4	25.7	21.5	19.6	25.3	21.7	22.8	23.6	22.8	21.3	19.4	17.6	19.6	23.6	23.3	25.3	24.3	23.2	21.5	20.6	21.6	
18	20.9	19.4	17.4	19.6	17.2	19.5	19.5	20.4	22.0	21.4	23.8	24.4	23.5	21.6	19.8	18.6	20.8	21.6	23.3	23.5	22.3	22.2	20.7	14.1	20.7	
19	15.4	19.2	21.2	20.2	19.6	23.0	21.7	20.0	25.4	27.3	23.3	21.5	19.9	20.0	25.9	24.5	22.6	25.7	25.9	26.6	25.6	23.6	21.4	20.7	22.5	
20	20.2	19.7	20.5	20.5	20.9	21.2	20.6	22.2	22.6	19.1	21.4	22.1	20.2	19.6	18.8	18.8	20.1	22.5	23.7	23.7	23.5	22.8	21.9	21.4	21.2	
21	21.0	20.7	20.9	20.6	20.9	21.4	21.0	20.9	21.1	21.4	21.7	21.9	21.0	19.9	18.8	20.0	21.0	22.7	23.9	23.8	23.0	22.0	21.5	21.0	21.3	
22	21.0	20.8	20.7	21.0	21.0	21.0	21.5	21.5	20.8	20.7	21.1	21.0	20.1	18.7	18.0	19.1	20.4	22.2	24.5	24.1	23.6	22.2	21.6	21.5	21.2	
23	20.7	20.4	20.1	19.9	19.9	20.8	20.9	22.7	19.3	19.7	19.9	20.2	20.8	20.4	20.1	20.9	21.1	22.9	23.0	22.9	22.4	21.1	20.8	21.0		
24	20.9	20.6	20.7	20.0	20.3	20.4	21.4	20.9	22.2	20.9	21.3	22.6	20.7	19.1	19.1	20.5	21.2	23.9	24.7	25.8	25.7	26.3	22.9	21.9	21.8	
25	21.4	20.2	21.1	19.4	22.2	22.0	22.1	21.3	21.7	21.8	21.7	20.7	19.3	18.9	20.1	22.1	23.0	24.9	24.9	23.5	23.0	22.0	21.4	21.2	21.7	
26	21.1	21.0	21.1	21.3	21.3	21.3	21.5	21.6	21.1	21.7	20.8	20.6	20.3	19.5	19.2	20.2	20.6	21.3	21.3	21.1	21.2	22.1	21.9	21.4	21.1	
27 Q	21.1	21.1	21.0	21.1	21.3	21.3	21.4	21.4	21.2	21.0	20.3	20.4	20.1	19.7	20.2	21.5	22.8	23.0	22.6	21.9	21.8	21.9	22.0	21.5	21.3	
28 Q	21.3	21.2	21.3	21.4	21.8	21.2	21.3	21.1	20.2	21.0	21.0	20.4	19.7	19.5	20.5	21.4	22.2	23.8	23.6	21.8	20.5	21.0	21.3	21.2	21.2	
29	21.1	20.1	20.2	20.2	20.3	20.2	21.0	20.5	20.3	20.0	20.2	19.8	19.5	18.8	19.2	21.3	22.8	23.8	23.4	23.6	24.8	24.0	24.2	21.9	21.5	
30 D	22.0	21.7	17.1	23.1	21.2	23.7	18.4	16.1	15.0	30.6	14.3	5.8	8.0	18.9	21.8	26.0	28.4	28.6	27.2	24.7	28.4	27.5	27.1	23.0	21.6	
31 D	16.8	16.4	17.2	14.6	15.0	16.4	10.8	7.4	4.2	21.5	11.8	25.0	32.3	34.6	42.3	38.0	29.1	34.4	35.1	31.3	25.8	21.7	20.3	19.8	22.6	
Mean	20.1	19.3	19.6	19.3	19.9	20.4	20.5	20.5	21.1	21.8	20.9	21.0	20.4	19.8	20.0	20.9	21.9	23.7	24.4	24.4	23.7	22.7	21.7	20.4	21.2	

VERTICAL INTENSITY

Mean values for periods of sixty minutes. Universal Time

Table 3 Agincourt

$$Z = 56,000 \gamma +$$

January 1963

Hour U.T. Day	0 to 1 1	1 to 2 2	2 to 3 3	3 to 4 4	4 to 5 5	5 to 6 6	6 to 7 7	7 to 8 8	8 to 9 9	9 to 10 10	10 to 11 11	11 to 12 12	12 to 13 13	13 to 14 14	14 to 15 15	15 to 16 16	16 to 17 17	17 to 18 18	18 to 19 19	19 to 20 20	20 to 21 21	21 to 22 22	22 to 23 23	23 to 24 24	Mean		
1	144	144	143	144	144	143	142	141	143	141	140	141	143	140	136	137	140	143	144	146	148	148	146	145	143		
2 Q	145	144	142	142	142	141	141	141	141	140	140	140	140	138	132	132	136	138	143	144	144	144	141	139	140		
3	138	138	138	138	138	138	138	137	137	137	135	136	138	138	133	132	133	133	133	137	138	138	137	137	136		
4	137	137	137	137	133	134	135	135	135	133	133	132	132	130	126	126	132	137	144	142	144	141	139	139	135		
5	137	136	135	134	134	133	133	133	132	126	127	128	132	131	127	126	131	133	136	137	138	137	136	134	133		
6 Q	134	133	133	132	132	132	132	132	132	132	132	131	132	132	130	127	130	131	132	132	132	132	133	131	131	132	
7	131	131	133	133	132	127	124	130	131	130	130	131	131	131	128	120	124	132	134	134	137	136	133	133	131	131	
8	133	132	132	132	132	131	131	127	128	131	132	132	133	132	130	121	125	131	136	134	133	133	132	131	131	131	
9 Q	132	132	131	131	132	132	132	131	130	129	129	131	130	129	127	126	132	137	133	133	134	132	132	131	131	131	
10	132	132	134	134	133	132	132	132	132	132	131	131	132	133	132	129	129	130	131	132	134	134	133	132	132	132	
11	132	131	131	131	131	131	129	129	128	128	128	128	128	127	126	122	121	121	127	132	134	135	135	134	129	129	
12	134	133	133	133	132	132	132	132	132	132	132	132	132	132	131	128	127	130	134	135	134	132	132	131	132	132	
13 D	132	146	143	128	95	136	132	103	121	103	110	118	123	130	132	127	126	130	137	141	140	141	141	146	128	128	
14 D	146	147	145	135	129	126	128	121	122	112	94	120	129	129	127	127	133	145	150	161	164	155	146	145	135	135	
15 D	144	146	144	138	95	105	80	108	92	91	105	124	134	135	135	132	132	138	141	145	145	144	143	142	127	127	
16	142	142	145	145	141	136	133	121	104	110	123	129	135	134	134	141	144	144	145	148	154	157	157	152	138	138	
17	150	147	143	144	142	119	102	104	114	128	133	135	136	138	138	136	138	141	150	150	151	150	147	145	137	137	
18	145	146	147	146	140	135	139	136	138	135	134	136	136	136	137	139	138	139	142	145	146	152	158	141	141	141	
19	153	153	150	147	142	134	126	131	124	118	124	131	134	136	135	134	136	139	148	148	151	154	156	157	141	141	
20	153	148	144	142	141	140	137	128	122	128	136	140	140	136	139	133	134	136	141	143	145	143	142	142	139	139	
21	142	141	140	140	140	140	140	140	139	136	136	139	140	139	136	136	134	133	135	140	142	140	139	139	139	139	
22	137	137	139	137	137	137	136	136	135	136	137	137	139	137	136	136	136	133	136	135	142	142	140	140	137	137	
23	141	143	141	142	140	137	135	136	133	134	134	135	136	135	133	130	133	137	140	140	140	140	140	140	137	137	
24	138	136	136	136	134	133	135	136	134	134	133	136	136	131	128	126	128	131	136	139	140	148	173	155	137	137	
25	153	149	146	139	133	136	138	136	136	137	139	139	136	133	133	134	137	141	144	142	142	140	139	139	139	139	
26	138	137	136	137	139	139	137	137	136	136	136	136	136	136	134	131	135	135	136	134	136	137	137	136	136	136	
27 Q	136	136	136	136	136	135	135	135	134	134	134	135	136	134	133	133	134	135	137	140	136	134	135	136	135	135	
28 Q	136	135	135	136	135	136	134	134	134	134	134	134	134	131	130	129	128	128	131	135	133	131	133	134	133	133	
29	134	134	134	134	134	134	134	134	134	133	132	133	133	135	133	131	130	132	134	133	134	134	134	137	140	134	
30 D	139	145	139	136	141	131	135	139	135	75	91	101	119	119	114	118	126	135	140	142	145	154	179	222	134	134	
31 D	195	208	211	170	139	121	101	54	38	-8	6	41	61	86	104	121	135	166	179	176	158	151	148	146	121	121	121
Mean	141	142	141	138	134	133	130	128	127	122	125	129	132	132	131	130	132	136	140	141	142	141	142	143	135	135	

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 4 Agincourt

H = 15,500 $\gamma +$

February 1963

Hour U.T. Day \	0 to 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	0 to 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																							
Hour U.T. Day	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
1	455	453	453	454	454	454	455	456	465	456	457	466	463	465	460	453	446	441	448	457	444	444	437	456	454
2 Q	459	459	459	459	458	459	460	461	464	465	464	464	461	458	450	445	445	451	460	462	464	467	470	471	460
3	471	470	466	466	467	469	466	466	467	470	470	470	465	456	443	436	435	444	455	460	465	467	469	470	462
4	471	471	470	470	469	469	470	471	471	470	469	464	453	440	435	437	438	439	448	454	459	464	465	460	
5	466	467	466	468	467	466	465	465	468	466	465	464	465	461	453	453	449	452	457	459	462	465	470	473	463
6	473	474	473	472	473	471	471	472	472	473	473	469	460	456	457	456	456	462	465	469	473	473	476	468	
7	477	475	474	473	474	474	474	473	473	474	478	479	478	476	474	472	465	464	467	469	468	468	467	469	472
8 Q	467	463	459	458	458	459	458	460	460	462	463	463	463	463	461	460	463	469	470	468	464	465	467	463	
9	469	470	470	469	470	470	471	474	474	478	476	476	479	477	477	477	481	486	481	489	494	490	489	465	477
10 D	504	454	409	393	423	418	404	367	418	441	449	462	434	434	435	438	431	438	440	435	450	449	455	449	435
11 D	454	454	460	461	464	465	450	452	449	438	459	460	450	446	442	439	430	446	454	450	453	450	459	468	452
12 D	469	450	458	454	465	455	446	453	439	466	468	466	463	454	453	452	453	453	454	449	454	459	454	452	456
13 D	455	459	457	476	471	453	440	466	450	459	464	460	449	446	440	410	402	430	443	429	444	460	460	445	449
14 D	444	456	460	466	470	476	474	454	444	468	470	470	465	450	438	440	435	446	451	460	461	470	471	470	459
15	471	472	471	468	468	471	473	469	469	466	466	466	460	447	449	452	450	450	457	469	471	469	470	471	464
16	472	471	471	470	470	468	468	470	472	472	471	475	472	467	462	457	447	456	462	466	468	471	473	476	468
17	477	477	476	473	472	471	473	472	471	472	473	473	472	467	462	461	458	458	466	472	476	476	475	476	471
18	477	477	477	477	476	475	477	479	479	480	479	482	482	479	476	473	469	474	478	483	486	486	489	488	479
19 Q	488	486	483	482	481	482	483	486	486	488	488	488	489	489	489	487	483	484	485	488	492	489	489	486	
20	488	483	478	477	479	481	482	477	477	478	484	492	489	488	488	487	489	492	489	489	482	483	465	468	483
21	476	477	476	475	477	471	471	470	467	471	476	475	473	470	470	467	462	466	477	472	465	467	472		
22	468	467	466	466	460	462	463	461	461	465	470	471	471	468	460	457	456	459	460	467	473	470	472	471	465
23	471	471	471	471	470	470	474	472	467	471	473	472	471	466	462	454	450	463	469	475	472	471	470	472	469
24 Q	472	472	471	466	467	467	469	470	471	472	473	474	471	465	458	459	457	460	469	478	487	482	476	470	
25	473	470	465	468	466	470	471	472	474	474	474	475	474	471	474	470	464	465	471	480	483	482	479	477	473
26	476	475	474	472	474	473	474	470	470	472	470	471	468	464	462	464	459	454	460	467	474	474	472	475	469
27 Q	474	475	474	474	475	474	475	475	476	475	474	473	468	464	464	460	459	461	464	469	473	474	474	471	
28	474	470	470	469	464	468	470	474	471	475	479	478	475	469	462	454	451	454	464	474	481	489	490	478	471
29																									
30																									
31																									
Mean	471	468	466	466	467	466	465	464	465	458	471	472	468	463	459	456	453	457	462	466	469	471	470	470	466

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 5 Agincourt

D = 7° W + ...'

February 1963

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	20.6	21.1	21.2	21.4	21.8	21.9	21.9	22.0	21.8	16.5	23.0	20.7	20.6	28.4	28.1	26.8	28.5	29.6	28.9	27.6	25.1	23.4	20.1	20.7	23.4	
2 Q	20.8	20.4	20.5	20.6	20.9	21.3	21.4	21.3	21.1	21.3	21.2	21.1	20.2	20.2	20.7	22.1	23.9	25.0	24.3	23.3	22.4	21.9	21.5	21.5	21.6	
3	21.1	20.7	21.1	20.8	22.0	21.4	21.9	21.3	20.5	20.2	20.1	19.8	19.5	19.5	20.6	23.2	26.4	27.4	26.9	25.8	25.0	22.9	22.1	21.4	22.1	
4	20.9	21.0	21.2	21.3	21.4	21.5	21.6	21.3	21.1	20.4	20.3	20.0	19.2	17.6	17.8	20.6	22.9	25.3	27.4	26.7	25.0	22.3	22.1	21.3	21.7	
5	21.1	21.0	20.7	20.7	21.1	21.1	20.7	20.5	20.4	20.0	19.7	19.6	18.7	18.1	19.5	22.5	25.0	25.1	25.7	24.8	24.1	22.9	21.7	21.2	21.5	
6	20.8	20.3	18.4	19.6	20.2	21.1	21.2	21.6	21.1	20.5	20.2	20.0	19.5	18.8	19.6	21.3	23.3	23.9	24.2	23.6	23.0	22.0	21.5	21.2	21.1	
7	20.8	20.7	20.5	20.0	21.2	21.4	21.4	21.4	21.6	22.1	20.8	20.7	19.8	19.0	18.7	19.8	21.7	23.1	23.1	22.3	22.1	22.1	23.3	22.0	21.2	
8 Q	20.9	21.1	21.1	21.2	20.9	20.7	21.0	20.7	20.5	20.7	20.7	20.9	20.6	20.5	20.6	20.9	21.4	21.7	21.6	20.7	19.8	20.3	21.4	21.3	20.9	
9	21.0	20.8	20.8	20.8	20.9	21.0	20.9	20.7	20.5	20.2	20.1	19.9	19.6	19.6	19.7	21.2	21.3	21.2	21.2	20.4	19.7	20.5	23.5	28.3	21.0	
10 D	24.9	23.1	20.8	30.5	23.3	20.9	24.3	40.7	17.9	14.1	20.7	21.3	28.9	28.5	24.4	24.6	25.9	25.4	26.0	26.2	23.2	17.3	20.9	15.9	23.7	
11 D	14.0	17.1	21.7	21.7	25.2	28.9	24.3	20.1	20.7	21.3	18.6	17.8	19.8	19.3	21.7	24.1	24.1	24.2	24.6	25.1	23.0	22.0	20.6	18.5	21.6	
12 D	20.0	10.3	13.3	21.5	25.5	23.8	31.0	25.0	30.5	19.7	18.4	19.7	21.3	21.2	22.2	23.1	24.6	24.2	24.1	24.0	22.6	23.3	19.6	19.5	22.0	
13 D	18.0	19.1	17.3	16.2	20.3	20.5	32.3	21.8	22.6	24.2	20.9	21.6	24.6	23.2	19.9	22.6	26.0	27.1	23.3	25.3	24.4	22.6	21.6	17.6	22.2	
14 D	16.1	19.6	19.9	19.8	22.8	22.2	21.7	25.3	32.0	16.9	18.7	19.1	19.3	19.9	20.6	21.4	21.6	22.5	23.9	23.3	22.2	21.5	21.6	22.2	21.4	
15	21.6	21.0	20.8	20.5	19.9	21.6	21.9	21.6	21.4	20.7	21.6	21.1	22.5	21.6	20.7	22.3	23.9	24.7	24.2	23.5	22.6	22.3	21.8	21.9		
16	21.5	21.1	12.2	21.3	21.5	21.6	21.7	21.8	21.9	21.1	22.1	21.1	20.5	20.1	20.3	21.5	24.1	24.3	24.2	23.5	23.0	22.7	22.3	21.8	21.9	
17	21.5	21.0	21.1	21.5	21.3	21.6	21.8	21.5	21.5	21.9	21.5	20.9	20.8	20.2	19.9	20.8	22.1	23.7	24.6	24.5	23.5	22.5	22.3	22.0	21.8	
18	21.6	21.5	21.5	21.4	21.3	21.1	21.5	20.9	21.1	20.7	19.9	20.0	20.0	19.7	19.9	20.8	21.7	22.3	22.5	22.1	22.4	22.5	22.0	21.5	21.2	
19 Q	21.2	21.1	21.2	21.3	21.3	21.0	21.1	21.0	20.8	20.8	20.8	20.7	20.3	19.7	19.8	20.1	21.7	23.1	23.0	22.7	22.7	22.6	22.4	21.9	21.4	
20	21.6	21.9	21.7	21.0	20.9	20.5	20.1	20.1	18.9	18.5	20.1	20.1	19.8	18.9	20.7	21.3	22.7	23.5	22.6	23.0	22.7	23.6	24.6	22.6	21.3	
21	22.4	21.8	21.9	22.0	21.3	21.1	21.6	21.0	20.4	21.1	19.3	20.3	20.5	20.1	20.3	21.0	23.8	25.7	25.3	24.5	23.4	23.1	22.9	22.4	22.0	
22	21.7	21.3	21.6	21.6	19.2	21.7	21.3	21.6	25.7	20.2	19.7	19.5	20.1	19.3	19.8	20.9	23.1	24.6	25.1	24.0	22.5	21.3	21.3	21.2	21.6	
23	21.3	21.3	21.3	21.4	21.4	21.7	21.9	21.1	20.1	20.1	20.3	20.7	21.2	18.3	19.3	21.0	26.1	26.5	25.4	24.2	22.0	21.2	21.2	21.0	21.7	
24 Q	20.8	21.0	21.1	21.5	21.4	21.6	21.8	21.8	21.6	21.3	21.1	20.8	19.9	19.0	19.0	20.7	22.9	25.2	26.5	25.6	23.5	21.7	21.4	21.8	21.8	
25	21.9	20.8	20.1	21.1	20.9	21.6	21.8	21.8	21.3	21.4	21.0	20.2	19.5	20.2	20.4	21.2	22.8	24.8	26.4	25.8	23.8	22.3	21.9	21.7	21.9	
26	21.3	21.5	21.5	21.3	21.3	21.3	21.3	21.7	22.5	21.7	18.3	19.0	19.6	20.0	20.9	22.4	24.5	25.5	26.0	25.5	23.7	22.5	22.1	21.8	22.0	
27 Q	21.1	21.1	21.3	21.5	21.7	21.6	21.3	21.3	21.1	21.2	20.2	20.2	19.5	19.0	19.0	20.2	21.9	22.9	23.7	24.2	23.4	22.8	22.4	22.0	21.4	
28	21.7	21.6	21.8	20.3	19.1	21.2	21.8	21.8	21.9	21.9	24.5	20.5	19.3	18.4	17.0	18.4	20.2	22.4	24.8	25.9	25.7	23.8	22.4	22.2	23.0	21.6
29																										
30																										
31																										
Mean	20.8	20.5	20.6	21.2	21.4	21.7	22.4	22.2	21.9	20.5	20.4	20.2	20.5	20.3	20.5	21.7	23.5	24.5	24.7	24.2	23.0	22.1	22.0	21.4	21.8	

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 6 Agincourt

Z = 56,000 γ +

February 1963

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	141	141	141	141	141	142	143	139	119	115	120	116	126	119	120	122	132	115	145	151	151	157	157	151	135	
2 Q	144	141	139	138	138	138	138	138	138	137	137	136	137	134	135	137	139	140	143	144	141	138	137	138	139	
3	138	137	137	138	137	135	137	138	138	137	135	134	136	135	134	135	138	140	143	143	141	139	138	136	137	
4	134	133	133	133	133	133	133	133	133	132	132	132	134	132	130	131	132	136	139	139	137	134	134	133	133	
5	133	133	133	133	133	133	133	133	132	133	132	132	133	130	121	120	121	124	126	131	133	137	136	135	131	
6	134	133	133	133	132	133	133	133	134	134	133	133	131	130	130	128	131	132	131	133	134	134	134	134	133	
7	133	133	133	133	132	133	132	133	132	133	133	132	132	130	125	120	121	126	129	131	132	133	134	134	131	
8 Q	134	135	134	134	133	132	132	132	132	131	131	130	128	126	126	127	127	127	128	128	127	128	129	130	130	
9	129	129	128	128	128	128	129	128	128	127	127	126	126	125	122	120	120	122	124	127	125	124	128	151	127	
10 D	249	221	167	85	134	140	108	48	84	103	132	124	117	132	143	141	141	148	151	150	162	162	152	157	140	
11 D	147	147	147	141	129	105	115	130	140	127	135	136	135	140	138	138	144	145	141	141	145	146	144	145	138	
12 D	141	141	143	135	126	123	94	108	83	121	130	134	136	134	133	134	137	141	144	145	148	149	146	132		
13 D	148	145	142	129	123	116	69	94	112	123	130	131	136	133	134	131	148	152	153	155	156	146	146	148	133	
14 D	149	150	147	133	117	119	130	123	79	122	131	135	137	137	140	141	141	142	142	144	142	140	140	134		
15	142	141	141	140	140	137	134	137	137	137	135	136	136	138	140	137	135	136	140	140	138	137	138	139	138	
16	138	138	137	137	137	137	137	137	136	136	136	136	136	137	136	135	129	128	130	131	132	137	138	137	135	
17	137	136	135	136	136	137	137	136	136	136	136	136	136	136	134	132	132	134	133	135	136	134	135	135	135	
18	135	135	134	135	135	135	135	135	135	132	132	132	132	131	129	127	128	129	130	131	131	131	134	135	132	
19 Q	132	132	133	132	134	134	135	134	134	132	132	131	131	131	131	129	125	125	127	129	129	130	131	131	131	
20	130	130	131	135	134	132	131	130	129	129	131	129	125	123	118	117	118	121	125	129	133	142	148	129		
21	137	135	134	134	134	134	130	125	124	123	123	127	129	124	123	120	125	132	132	131	132	134	134	129		
22	133	133	133	133	133	134	131	131	127	124	131	132	135	132	129	131	130	125	129	133	133	132	132	133	131	
23	131	131	131	131	130	131	131	129	120	129	131	131	131	130	125	120	124	129	132	131	131	132	132	129		
24 Q	131	131	130	131	131	132	131	132	132	132	131	131	133	134	131	124	124	129	134	135	132	131	132	134	131	
25	134	134	136	135	134	134	134	134	132	132	132	132	131	130	121	120	124	129	133	132	131	131	132	131	131	
26	130	130	130	130	129	128	124	130	129	123	122	125	128	128	123	122	124	127	129	132	132	131	131	128		
27 Q	131	130	130	130	130	130	129	129	129	128	128	129	129	129	124	123	124	121	127	128	128	129	130	128		
28	128	128	128	127	127	128	128	128	127	124	125	126	127	123	122	117	115	119	126	130	132	129	129	128		
29																										
30																										
31																										
Mean	140	139	136	132	132	131	128	127	126	128	131	131	132	131	130	128	129	131	134	136	137	136	137	138	132	

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 7 Agincourt

H = 15,500 γ^+

March 1963

Hour U.T. Day	0 to 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	0 to 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
1 D	472 467 467 466 472 466 452 466 462 461 466 466 463 457 450 439 427 439 454 465 476 471 472 467 461	
2	472 472 473 472 474 473 477 474 473 474 478 483 477 474 462 451 445 450 461 466 478 483 484 484 471	
3	479 478 478 478 483 478 477 476 476 473 478 473 472 471 466 458 451 452 460 467 473 471 474 478 472	
4	477 479 479 480 478 477 477 478 478 477 479 478 474 473 472 463 457 456 463 468 477 484 478 478 474	
5	477 479 480 479 475 474 475 478 477 479 480 480 475 472 462 457 454 457 468 479 479 478 479 478 474	
6	479 480 479 474 469 473 474 479 479 479 480 480 478 470 461 452 453 459 462 466 468 474 479 478 472	
7	479 478 479 473 472 467 474 475 476 479 479 475 474 470 464 456 459 469 479 477 491 474 457 473	
8 D	473 461 451 447 464 469 454 476 453 471 480 469 489 476 459 442 437 443 458 471 469 475 474 466 464	
9 D	471 460 460 445 459 462 465 474 466 472 476 475 473 464 462 455 454 454 462 469 475 480 461 481 466	
10 D	480 492 473 458 470 467 464 454 449 441 465 474 445 421 403 411 449 426 444 472 473 452 460 447 454	
11 D	436 444 462 476 467 467 467 470 471 471 470 472 470 463 448 439 440 447 456 459 459 474 475 470 461	
12	469 469 476 467 471 467 477 475 472 475 470 476 471 459 455 441 445 446 450 461 467 475 477 466 466	
13	477 476 475 475 475 476 479 476 476 472 475 481 474 464 450 455 458 453 455 460 467 476 477 470 470	
14 Q	477 475 476 476 476 476 476 477 478 480 481 480 471 464 461 461 464 471 474 475 476 480 482 475 475	
15	482 480 475 477 474 472 476 476 476 477 480 479 475 465 456 444 440 448 460 471 479 482 483 485 471	
16 Q	486 483 482 482 481 482 482 481 482 483 484 482 481 476 467 456 448 448 459 471 480 485 486 476	
17	483 482 482 483 484 486 486 486 487 486 486 481 476 471 465 463 462 468 474 480 476 477 475 478 478	
18	480 480 481 474 475 479 476 476 470 473 475 475 468 457 447 456 458 467 475 476 480 479 478 478 472	
19	484 475 478 469 469 461 468 474 477 477 475 473 469 463 460 452 455 463 473 467 473 474 467 469 469	
20	474 470 469 474 474 475 474 475 477 478 480 481 480 479 475 474 474 478 480 482 484 480 468 475 476	
21	476 475 474 474 475 475 473 473 479 479 478 477 474 468 459 453 458 463 469 475 478 479 480 472 472	
22 Q	480 481 480 480 480 480 480 481 481 480 480 479 474 469 463 452 452 460 468 480 485 486 489 476 476	
23	490 486 484 482 485 488 489 484 489 495 485 496 490 477 461 466 467 468 473 476 482 479 481 481 481	
24	480 480 478 478 479 480 480 482 484 484 483 480 475 470 460 446 447 452 461 473 484 482 479 480 474	
25	485 483 482 481 483 483 481 482 483 486 486 487 482 471 458 447 449 458 470 479 487 492 491 488 478	
26 Q	486 485 485 485 485 485 485 486 487 487 486 481 479 469 460 453 453 454 469 475 473 480 483 483 477	
27 Q	486 482 483 482 482 482 486 486 486 487 486 484 484 478 467 458 457 464 476 479 487 490 487 487 480	
28	487 487 487 488 490 492 492 490 491 496 496 493 491 485 472 458 449 454 464 477 490 493 497 492 484	
29	492 491 494 489 493 493 494 494 494 488 488 483 480 482 474 460 450 452 461 472 480 487 491 492 482	
30	489 488 487 483 483 482 482 484 482 483 482 483 483 483 477 471 474 481 487 488 487 493 494 483	
31	492 490 489 488 489 484 482 480 482 483 484 485 483 483 477 467 459 456 461 474 487 490 504 500 492 483	
Mean	479 478 477 475 477 476 477 478 477 478 480 480 480 476 469 460 453 453 456 465 473 477 481 480 479 473	

DECLINATION

Mean values for periods of sixty minutes, Universal Time

Table 8 Agincourt

 $D = 7^\circ \text{ W} + \dots'$

March 1963

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	23.6	23.6	22.7	24.4	20.4	20.4	16.9	19.3	15.9	20.1	18.8	19.2	20.5	19.3	18.7	19.4	23.6	27.4	27.4	26.8	25.3	24.9	23.2	22.4	21.8
2	21.3	21.9	22.3	22.2	22.4	21.4	23.7	21.0	19.1	18.9	19.3	18.2	18.6	18.4	18.6	21.3	24.4	25.9	26.9	26.3	24.4	23.2	22.4	22.6	21.9
3	22.4	22.3	22.0	21.7	20.7	21.7	24.9	23.8	20.4	17.5	16.9	19.0	19.4	18.6	19.1	21.2	23.8	25.7	26.5	15.6	25.5	24.4	22.9	22.4	21.6
4	21.6	21.4	21.4	21.5	22.2	21.5	21.7	21.4	22.6	21.4	19.6	20.7	20.7	20.2	20.4	21.5	24.6	26.8	26.8	26.0	24.8	24.2	23.4	23.3	22.5
5	22.4	22.2	22.4	22.3	21.5	21.7	21.7	21.2	21.2	21.2	20.0	19.7	19.1	18.8	19.3	21.4	24.6	26.9	27.0	26.6	25.6	24.6	23.5	23.5	22.4
6	22.2	21.7	21.6	22.3	22.6	20.7	21.5	21.6	21.4	21.3	21.0	20.5	19.8	19.5	19.1	22.4	25.4	27.4	28.8	29.1	28.9	25.7	23.4	22.7	22.9
7	22.1	22.3	22.3	21.1	38.7	22.7	21.3	20.7	20.5	20.7	21.4	21.3	20.7	20.1	19.7	20.6	23.4	24.8	25.6	26.6	26.1	26.6	29.6	32.6	23.8
8 D	23.2	19.5	13.9	19.3	22.2	21.7	20.4	18.2	15.0	19.7	20.1	30.4	25.8	19.4	21.2	25.8	29.0	31.1	28.8	29.1	30.8	25.8	23.6	23.8	23.2
9 D	21.8	22.7	22.4	18.2	23.6	19.5	20.5	20.7	21.3	21.1	19.7	19.5	19.4	19.3	20.6	20.6	23.8	26.3	25.9	25.6	24.8	24.2	24.2	21.4	22.0
10 D	20.0	14.0	19.4	19.6	19.0	23.5	26.6	19.1	23.2	28.8	22.4	21.2	25.1	26.0	26.6	31.0	29.1	29.3	27.5	27.7	23.5	17.9	21.2	19.0	23.4
11 D	4.8	15.3	17.2	20.8	22.3	19.5	23.5	25.3	22.4	22.1	22.2	20.9	18.6	17.2	18.5	19.5	22.2	25.0	27.2	28.0	26.3	25.5	25.0	19.4	21.2
12	18.6	19.0	17.4	20.2	23.6	26.3	24.1	22.4	24.4	24.4	25.7	22.6	19.5	18.6	19.1	21.5	24.2	26.8	28.5	27.5	26.5	25.0	23.3	22.2	22.9
13	21.6	21.5	21.5	21.9	22.1	21.6	22.2	21.4	24.3	22.6	23.8	22.0	21.5	21.1	21.9	22.6	22.8	24.9	26.4	26.5	25.4	23.6	22.5	21.4	22.8
14 Q	21.2	20.9	21.7	21.8	21.4	21.3	21.7	21.8	21.8	21.7	21.5	21.3	20.0	19.9	20.0	21.2	23.3	25.4	25.6	26.0	25.5	24.6	23.2	22.1	22.3
15	21.5	21.2	20.1	20.6	21.1	21.9	22.0	21.4	21.4	21.3	21.1	20.5	19.1	18.0	18.5	18.9	21.2	24.9	27.4	27.3	26.4	25.2	23.5	22.7	22.0
16 Q	22.2	22.1	22.1	21.6	21.8	21.8	21.6	21.6	21.6	21.4	21.2	20.4	19.2	18.1	17.3	18.0	20.1	23.4	24.7	26.5	27.3	25.5	24.3	23.2	22.0
17	22.5	22.3	21.6	22.1	21.7	22.1	21.5	21.2	21.0	20.4	20.6	19.5	18.3	18.1	18.3	20.0	25.6	28.9	28.9	27.5	27.0	26.4	23.1	23.2	22.6
18	22.3	21.8	22.2	21.5	21.5	21.6	20.4	20.0	16.8	16.2	19.2	19.3	17.7	16.8	21.3	27.1	27.3	27.5	26.1	26.4	26.7	26.8	25.6	24.3	22.4
19	24.3	22.7	22.3	21.4	20.6	19.5	18.0	19.1	19.5	19.1	19.3	18.9	18.4	18.0	18.9	21.5	24.5	24.5	25.2	25.7	25.5	25.5	24.0	22.3	21.6
20	22.2	20.9	21.7	21.5	21.6	20.9	21.0	20.5	19.8	19.6	20.4	20.5	18.7	18.3	18.8	20.7	23.0	24.9	25.8	25.7	25.2	24.8	23.3	24.1	21.8
21	22.3	22.2	21.4	19.4	21.4	21.4	20.9	23.8	21.4	20.4	21.0	20.1	19.1	18.0	18.9	21.3	24.6	26.5	26.9	25.6	24.3	23.1	22.6	22.7	22.1
22 Q	22.5	22.3	22.3	22.3	22.2	22.1	21.6	21.5	21.4	21.4	21.3	20.8	19.1	16.6	16.5	19.0	22.5	25.5	26.4	25.9	24.9	23.4	23.2	22.3	22.0
23	22.6	22.9	22.6	22.3	21.4	21.0	20.1	19.4	20.4	19.4	22.2	22.6	16.4	16.2	22.0	23.3	25.2	26.9	27.7	27.5	26.3	24.7	23.7	22.8	22.5
24	22.3	22.2	22.3	22.3	22.3	22.2	21.8	21.5	21.3	21.2	21.4	20.4	19.7	16.9	17.7	20.4	24.1	27.3	27.7	27.6	26.5	24.6	24.0	22.3	22.5
25	22.1	22.0	22.2	22.3	21.8	21.7	21.7	21.5	21.1	20.5	20.5	19.6	18.0	16.5	17.9	21.1	24.7	27.9	28.3	27.4	25.5	23.5	22.6	22.2	22.2
26 Q	22.8	22.7	22.5	22.3	22.1	22.0	21.5	21.3	21.3	21.2	21.1	20.3	18.3	16.7	17.3	19.5	24.1	27.1	28.8	29.6	28.4	25.9	24.3	23.2	22.7
27 Q	22.2	22.1	21.5	21.8	22.1	21.6	21.6	21.3	20.9	20.6	20.6	20.1	18.5	17.2	17.7	20.8	23.6	25.7	26.4	25.5	24.6	24.1	23.3	22.6	21.9
28	22.3	22.1	22.0	21.9	21.7	21.3	20.5	22.0	19.3	19.4	19.1	19.1	18.1	16.9	16.1	18.0	22.3	25.5	27.6	28.8	28.2	26.8	24.6	22.7	21.9
29	21.6	21.2	20.3	21.0	21.2	21.2	20.4	19.8	19.0	18.4	18.1	19.0	20.6	18.3	15.2	16.9	19.3	23.4	26.3	27.8	27.7	26.2	24.5	22.5	21.2
30	22.1	22.0	21.4	21.3	21.5	21.4	21.0	20.1	19.0	19.9	20.5	21.4	19.8	18.5	18.3	19.0	21.4	23.5	25.4	25.9	25.6	25.2	24.3	22.9	21.7
31	22.2	21.9	22.0	21.9	21.1	21.1	19.4	18.8	19.8	19.8	20.4	19.8	19.0	18.0	18.4	20.3	23.3	26.2	27.5	27.6	26.2	25.5	25.1	24.5	22.1
Mean	21.5	21.4	21.2	21.4	22.2	21.6	21.5	21.0	20.6	20.7	20.7	20.6	19.6	18.5	19.1	21.2	23.9	26.2	27.0	26.6	26.1	24.8	23.8	22.9	22.3

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 9 Agincourt

H = 56,000 γ +

March 1963

Hour U.T. Day \	0 to 1 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	130	140	145	153	144	131	128	114	114	138	138	137	138	136	133	124	124	131	137	141	142	140	137	139	135
2	140	138	136	136	133	133	128	128	130	130	129	131	126	129	124	125	130	134	134	135	132	133	132	132	132
3	131	129	132	131	124	127	124	122	113	120	122	124	127	130	128	127	125	126	129	132	134	134	135	135	127
4	139	138	129	128	128	128	129	129	124	122	123	125	126	128	127	120	120	125	129	132	132	132	129	129	130
5	127	127	127	128	129	129	128	128	127	127	126	126	126	126	124	119	118	120	124	127	130	131	132	132	127
6	131	130	131	132	135	131	130	131	131	128	129	129	126	125	126	118	116	122	130	142	140	140	138	137	130
7	136	135	136	137	136	135	135	136	136	135	136	136	135	135	135	129	128	129	131	138	140	146	155	182	138
8 D	165	159	167	156	152	146	128	66	104	138	133	108	100	119	124	126	131	138	141	150	167	167	161	156	138
9 D	153	154	154	140	114	123	140	144	138	139	140	143	142	143	142	127	128	133	136	140	142	148	151	148	140
10 D	146	137	132	136	121	126	91	107	115	91	101	120	118	120	131	151	149	148	174	162	166	166	167	177	136
11 D	149	149	148	135	110	117	135	139	132	135	135	138	138	135	138	140	144	149	150	155	158	153	154	155	141
12	148	146	139	143	134	121	127	130	134	135	134	136	139	142	141	138	135	136	139	143	147	145	142	139	138
13	136	136	135	135	134	132	130	130	127	126	132	133	133	133	133	137	130	131	136	138	141	141	139	138	134
14 Q	136	135	135	135	133	132	132	132	132	133	133	135	135	136	136	133	133	134	136	137	137	139	138	136	135
15	133	133	133	130	130	133	133	133	133	133	133	134	134	135	132	127	124	128	131	133	134	135	133	133	132
16 Q	129	129	129	129	129	129	129	129	129	128	128	129	129	128	126	124	122	124	128	130	133	133	134	132	129
17	131	128	127	128	128	127	126	127	126	127	127	127	129	127	123	117	114	115	121	125	126	129	136	133	126
18	131	130	130	130	134	131	128	122	116	121	127	129	129	127	125	120	116	119	127	126	130	134	137	137	127
19	137	132	131	135	133	127	129	132	132	129	127	128	129	127	124	118	122	126	129	133	136	137	138	142	131
20	138	137	137	134	134	133	133	133	132	129	127	124	127	127	123	116	113	116	117	120	125	134	137	138	128
21	136	133	131	127	127	130	128	127	127	128	130	131	131	127	124	122	116	117	124	130	133	133	131	130	128
22 Q	131	130	129	129	128	128	129	128	128	128	128	128	128	127	123	117	116	121	122	124	127	128	128	127	126
23	127	127	128	128	127	127	126	127	127	125	122	114	118	122	123	122	120	121	122	126	132	136	134	131	126
24	129	128	127	127	127	127	127	127	127	127	126	127	128	131	129	126	127	127	125	126	127	130	130	128	
25	130	127	127	127	126	123	126	126	126	126	126	128	124	128	124	121	123	127	131	133	131	128	127	127	
26 Q	127	127	126	126	126	127	126	126	126	126	126	128	128	124	118	117	119	124	128	128	128	128	128	128	126
27 Q	128	127	127	128	128	127	127	125	126	127	127	128	128	127	123	122	124	128	128	130	128	128	128	128	127
28	127	127	126	126	126	125	124	122	119	123	123	125	127	127	122	119	118	122	128	128	132	132	129	125	
29	128	127	126	125	124	125	125	124	123	123	123	125	126	127	126	126	123	121	123	127	130	129	135	133	126
30	131	129	129	129	130	130	130	128	128	128	127	126	127	128	122	117	116	119	122	123	126	127	128	128	126
31	125	124	124	124	123	124	123	123	125	124	126	127	128	127	124	123	124	125	126	127	128	132	132	135	126
Mean	135	134	133	132	129	129	128	126	126	127	128	128	128	129	128	125	124	127	131	133	136	137	137	138	130

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 10 Agincourt

H = 15,500 γ +

April 1963

Hour U.T. Day \	0 to 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	0 to 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
1	488 483 475 482 482 455 451 464 466 477 484 483 477 470 458 453 452 456 466 476 484 487 489 490 473		
2	489 488 487 483 483 483 484 487 487 487 487 487 486 482 472 463 463 466 465 476 483 486 485 487 482		
3	483 487 488 487 489 488 488 484 482 488 492 489 484 477 469 462 461 470 481 488 493 497 495 497 484		
4 D	498 493 488 488 489 489 495 493 498 501 503 499 488 478 453 465 475 485 487 482 488 499 492 484 488		
5 D	462 457 473 466 485 483 465 465 462 471 471 475 471 458 452 437 443 459 465 482 487 482 473 474 467		
6 D	481 480 483 488 489 486 488 477 466 488 484 461 480 476 457 461 467 475 482 485 494 482 477 482 479		
7	482 485 486 485 487 482 481 477 482 471 484 482 474 472 463 452 451 466 476 487 490 491 490 472 478		
8	483 485 482 484 483 488 485 484 487 487 485 482 477 472 465 455 446 457 472 486 494 495 491 489 480		
9	487 487 483 482 487 477 477 480 485 485 483 482 475 461 449 447 449 450 470 482 490 485 487 488 476		
10 Q	486 484 483 483 483 483 484 485 484 483 481 477 469 457 448 445 449 460 471 475 485 489 492 490 476		
11 Q	492 493 490 489 489 489 489 489 489 489 487 487 487 480 469 457 449 453 462 476 481 484 489 494 498		
12	485 483 490 488 491 491 488 493 489 483 483 490 485 468 456 455 457 462 481 484 485 477 478 487 480		
13	487 483 488 483 482 488 488 488 487 477 477 477 480 471 457 460 462 474 478 483 500 489 479 484 480		
14 D	465 471 481 483 482 483 481 482 481 478 484 486 470 461 445 449 483 491 493 485 487 487 502 499 480		
15	473 460 473 468 472 476 454 462 473 472 476 467 462 463 467 467 468 476 482 484 489 487 494 488 473		
16	483 485 479 479 484 485 483 486 485 482 484 482 481 476 474 466 461 463 467 483 483 495 500 496 481		
17	488 482 500 488 485 485 482 483 486 485 485 483 478 471 466 463 467 479 488 494 496 500 496 493 484		
18	490 491 490 490 488 490 494 494 490 489 490 486 479 478 474 481 490 501 491 506 487 490 483 489 489		
19	485 488 490 490 499 488 494 479 485 496 497 492 485 479 478 482 486 489 491 501 502 499 493 491 490		
20	490 495 495 494 491 494 489 490 492 492 495 493 484 472 464 458 475 486 495 497 491 491 489 490 488		
21 Q	491 489 490 490 486 488 489 489 490 490 489 484 476 474 472 475 484 488 487 496 496 491 485 489 487		
22	494 483 472 482 485 485 487 486 488 486 486 484 481 475 462 457 472 487 495 502 512 490 486 489 484		
23	484 479 467 462 460 461 468 458 474 470 474 476 469 458 449 450 462 478 489 496 497 495 489 485 473		
24 Q	486 486 486 486 486 487 490 491 491 490 491 487 481 469 458 458 469 487 501 502 500 497 493 496 486		
25	497 498 500 502 502 502 500 499 496 497 496 492 485 472 465 465 474 485 491 496 505 502 500 499 493		
26	497 497 492 492 494 491 491 493 495 495 496 492 486 472 461 461 469 483 492 498 513 507 504 507 491		
27	501 503 503 499 494 499 489 489 479 478 480 484 483 488 480 468 477 483 496 478 474 486 493 491 487		
28 Q	490 491 492 494 494 495 496 497 501 501 499 496 491 487 481 479 485 494 496 493 489 490 495 501 493		
29	501 500 500 500 500 496 493 496 497 497 496 496 496 490 480 480 498 509 511 510 507 505 500 498 498		
30 D	501 499 499 496 496 496 495 497 499 499 502 496 490 480 479 491 496 512 509 523 521 477 500 506 498		
31			
Mean	487 486 487 486 487 486 485 485 486 486 487 485 480 473 464 462 468 478 485 490 494 491 491 491 483		

DECLINATION

Mean values for periods of sixty minutes, Universal Time

Table 11 Agincourt

 $D = 7^\circ \text{ W} + \dots'$

April 1963

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	
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	24.0	23.2	20.7	22.3	20.5	9.2	17.0	19.6	19.7	21.2	21.6	18.4	17.2	17.5	18.8	21.7	24.9	26.7	27.3	26.8	25.8	24.5	23.4	22.5	21.4	
2	22.2	22.1	22.0	22.6	22.2	22.0	21.9	21.5	21.3	21.1	20.6	19.9	19.5	19.1	20.4	22.9	26.4	27.7	29.8	29.1	27.5	25.6	24.3	22.8	23.1	
3	17.9	21.4	22.1	21.5	21.2	22.1	22.2	20.6	21.6	22.5	21.0	19.8	18.4	18.3	19.1	20.7	24.8	27.6	28.7	28.2	26.7	24.9	23.4	22.5	22.4	
4 D	22.3	22.2	21.9	22.3	21.3	20.7	19.4	18.1	18.4	15.9	17.6	17.1	14.4	18.7	22.0	28.7	29.4	29.6	30.6	31.1	26.7	25.1	23.9	21.4	22.5	
5 D	20.5	11.8	16.2	19.0	29.4	28.7	18.1	17.4	20.8	23.4	21.7	21.8	20.1	19.3	21.2	23.6	27.8	29.3	29.1	26.5	25.6	25.5	21.9	16.2	22.3	
6 D	20.1	20.9	19.3	22.0	22.5	21.2	22.5	23.4	33.9	20.4	20.3	24.3	20.3	20.0	22.2	23.2	27.0	28.5	27.9	27.4	24.8	23.3	20.3	21.3	23.2	
7	20.5	19.0	21.0	22.3	21.4	22.3	27.1	27.4	21.3	29.2	20.0	18.4	19.9	20.1	20.4	25.4	28.4	28.7	27.5	25.9	24.6	22.8	21.7	19.2	23.1	
8	20.6	21.2	21.5	22.2	22.2	22.7	21.5	21.1	21.0	20.6	21.2	20.1	18.7	17.2	17.6	19.4	23.3	26.5	28.8	27.7	26.0	24.0	22.5	21.6	22.1	
9	21.9	21.3	21.3	21.0	22.4	21.4	22.1	23.3	22.2	20.6	20.0	19.1	17.3	17.9	19.2	22.4	26.0	29.7	29.0	26.9	25.0	23.2	22.2	21.7	22.4	
10 Q	21.9	22.1	22.1	22.1	21.9	22.1	22.0	22.1	21.2	20.8	19.8	19.2	17.9	18.8	20.4	24.2	27.4	28.8	29.6	28.9	26.6	24.2	22.9	22.5	22.9	
11 Q	22.5	22.2	22.2	22.1	22.0	21.9	21.5	21.4	21.4	21.9	20.6	19.0	17.5	17.6	18.9	21.6	24.8	27.4	27.9	27.2	26.1	24.6	23.0	22.1	22.4	
12	20.3	20.3	22.1	22.1	22.2	21.5	21.4	24.2	19.8	21.8	22.6	18.2	16.2	15.1	18.7	23.0	26.4	29.4	30.5	30.5	29.7	28.2	25.3	23.2	23.0	
13	22.4	21.5	18.8	19.9	21.5	22.1	22.0	21.1	21.2	23.7	22.2	18.7	17.2	16.5	18.3	23.4	26.8	29.2	31.3	32.5	31.0	30.3	28.8	27.0	23.6	
14 D	21.4	22.1	23.8	22.6	21.8	21.8	21.0	20.9	20.0	20.3	21.3	19.1	22.4	24.0	27.4	31.9	31.9	26.6	26.3	26.9	26.3	25.2	25.2	18.3	23.7	
15	19.8	14.9	10.7	20.7	19.9	19.9	22.2	22.0	16.0	16.7	17.7	18.9	20.0	21.5	22.4	22.6	23.2	23.8	23.6	23.9	23.9	24.0	23.4	22.6	20.6	
16	17.8	21.4	21.1	19.2	21.3	21.5	20.7	20.5	20.5	20.3	18.4	18.5	18.4	18.2	19.7	20.2	22.4	25.4	27.5	27.4	26.7	25.9	25.5	24.4	21.8	
17	23.4	20.8	18.4	21.3	21.8	21.0	21.0	20.9	20.4	19.9	19.9	19.5	17.9	18.2	19.7	22.4	24.9	28.3	29.9	27.6	25.4	24.0	24.0	23.7	22.3	
18	23.3	23.1	22.6	21.9	21.5	21.2	21.1	20.4	19.1	20.9	18.9	17.8	19.0	19.7	21.3	22.6	26.1	28.7	29.2	27.4	27.1	25.3	25.1	21.5	22.7	
19	19.8	21.8	22.1	21.3	21.7	28.3	20.8	17.5	16.5	16.7	16.7	16.1	16.5	17.3	18.7	21.5	25.1	28.6	27.8	25.2	22.3	20.9	20.1	20.1	21.0	
20	16.7	22.2	22.4	22.2	22.0	21.8	21.9	23.1	20.0	18.9	17.0	16.8	17.1	21.3	24.2	29.0	32.5	31.4	29.3	26.6	24.5	22.8	21.9	21.9	22.8	
21 Q	21.9	22.0	22.0	22.0	22.0	21.9	21.3	21.1	20.9	20.8	19.7	19.8	21.0	21.5	23.0	24.9	27.1	28.2	29.2	26.4	24.0	22.4	21.9	21.1	22.8	
22	20.0	19.5	18.1	21.6	22.4	22.1	21.7	21.2	20.8	20.4	18.5	16.8	16.0	16.7	19.6	23.3	27.1	29.4	29.4	28.0	26.5	25.2	21.7	20.8	33.0	
23	21.6	21.8	20.8	22.2	20.9	21.9	20.6	22.3	17.6	14.6	15.0	13.8	15.1	17.6	22.1	27.2	30.2	30.6	28.4	25.5	23.7	22.2	21.1	21.0	21.6	
24 Q	21.4	21.7	21.8	22.0	21.8	21.7	21.0	20.6	20.1	19.9	18.8	17.8	16.9	18.0	21.6	25.2	28.3	29.8	29.1	27.4	25.7	24.0	23.1	22.9	22.5	
25	22.0	20.0	22.1	21.5	22.5	22.7	22.0	20.0	19.8	19.4	17.9	16.7	16.5	17.3	19.9	24.2	27.9	29.2	30.0	29.3	27.2	25.8	24.1	21.8	22.5	
26	20.7	21.5	22.1	21.3	20.6	20.6	21.9	21.1	20.6	19.9	18.7	17.0	15.7	16.4	19.7	24.9	29.0	29.8	29.9	29.0	27.3	26.2	24.1	24.0	22.6	
27	23.5	22.9	22.7	21.1	20.1	18.2	16.6	19.9	20.4	22.4	20.7	16.9	16.5	15.9	16.6	21.0	26.3	28.3	29.0	31.2	28.5	24.8	23.3	22.1	22.0	
28 Q	21.4	21.1	21.1	21.2	21.1	21.1	20.8	20.5	19.8	19.3	18.6	18.1	18.3	18.1	17.8	18.8	21.5	22.8	23.8	23.9	24.2	23.6	22.8	22.3	20.9	
29	21.8	21.5	21.5	21.4	16.5	19.7	19.4	19.8	19.2	18.9	18.4	17.4	17.0	17.4	20.7	24.8	27.8	28.5	27.5	26.0	24.7	23.4	22.5	22.1	21.6	
30 D	21.9	21.1	20.5	21.2	20.6	20.4	19.5	18.6	18.1	18.3	17.2	15.7	15.0	17.5	20.9	21.4	21.3	26.0	31.1	24.5	29.6	28.6	23.2	24.5	21.5	
31	Mean	21.2	21.0	20.8	21.5	21.6	21.5	21.1	21.0	20.4	20.4	19.4	18.4	17.8	18.4	20.4	23.5	26.5	28.2	28.6	27.5	26.1	24.7	23.2	22.0	22.3

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 12 Agincourt

Z = 56,000 γ +

April 1963

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	135	140	148	143	141	142	137	138	133	127	128	135	137	135	130	127	125	125	128	129	131	131	132	132	134
2	129	129	129	129	131	130	129	129	128	129	129	131	129	127	126	123	126	132	134	137	135	134	134	130	
3	132	131	128	127	123	119	120	122	125	124	126	126	126	124	123	120	118	117	116	119	126	130	127	126	124
4 D	126	126	126	127	127	127	125	121	118	110	122	123	124	124	120	122	118	117	123	131	135	142	142	152	126
5 D	153	111	128	131	51	74	114	121	128	120	124	129	123	126	122	121	126	127	135	137	137	138	142	145	123
6 D	137	134	125	109	113	115	113	101	71	109	118	118	124	119	118	118	122	128	131	136	144	144	139	138	122
7	133	127	126	123	122	126	117	103	104	101	112	119	121	119	116	116	118	123	128	130	132	133	133	133	121
8	134	129	128	127	125	122	122	125	126	124	126	126	128	125	123	120	119	120	130	134	135	134	133	132	127
9	127	126	125	124	105	111	121	124	123	124	125	125	123	120	118	117	120	123	128	131	133	133	132	128	124
10 Q	127	127	126	126	126	126	126	126	126	126	126	127	128	126	126	126	128	131	132	131	131	132	131	127	128
11 Q	124	122	122	122	122	121	121	121	121	120	118	121	121	121	118	118	120	119	122	126	126	127	128	127	122
12	125	126	125	123	123	122	122	118	116	116	111	111	116	116	117	119	119	121	127	131	135	133	131	128	122
13	125	124	120	117	121	121	121	120	117	109	106	104	103	104	104	108	109	112	122	130	140	143	146	151	120
14 D	153	141	137	133	128	125	125	124	122	122	120	121	117	110	107	103	104	107	115	121	127	131	137	146	124
15	142	136	101	121	120	122	110	85	96	112	117	117	119	121	120	116	115	116	120	121	121	121	128	129	118
16	130	130	132	130	128	125	124	125	122	121	121	124	122	120	118	114	112	114	117	123	126	130	130	131	124
17	132	132	109	117	122	119	120	121	119	121	121	121	117	114	112	107	105	110	115	117	119	122	124	124	118
18	122	122	122	121	121	121	120	119	115	115	111	114	115	114	114	108	109	109	115	129	134	144	139	135	120
19	127	126	123	123	116	107	105	99	115	122	121	121	117	120	109	106	107	115	120	126	129	128	126	124	118
20	124	121	120	120	120	119	116	116	104	109	113	115	113	109	108	107	109	110	116	122	126	127	126	124	117
21 Q	122	121	121	121	120	120	121	121	121	120	119	116	115	115	115	119	121	124	127	130	131	129	126	122	
22	127	121	127	127	126	125	125	124	125	125	124	122	122	120	116	119	127	133	140	147	148	137	132	128	
23	128	129	130	125	125	127	128	127	105	121	129	127	128	125	122	120	121	122	123	129	132	131	130	126	
24 Q	128	128	127	127	127	126	126	126	127	127	128	127	126	127	126	120	119	119	123	127	130	130	128	127	126
25	127	126	125	120	116	115	117	121	122	122	122	123	123	122	118	115	118	122	126	131	132	132	130	123	
26	128	127	127	125	106	116	122	124	124	125	126	126	126	127	124	124	125	125	127	127	131	135	133	133	126
27	132	131	129	131	132	124	119	124	122	123	116	122	118	112	110	111	108	108	118	122	123	126	127	127	121
28 Q	127	126	126	125	125	125	123	123	123	124	122	122	118	111	103	103	111	115	119	123	127	126	124	121	
29	123	123	123	124	118	119	122	123	123	124	125	126	123	120	113	108	113	119	124	125	126	124	122	122	121
30 D	123	123	122	123	123	123	123	123	122	122	123	121	118	115	111	104	96	102	107	122	153	144	135	129	121
31																									
Mean	130	127	125	125	120	120	121	120	118	120	121	122	122	120	117	115	116	118	123	127	132	133	132	132	123

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 13 Agincourt

H = 15,500 γ +

May 1963

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
Hour U.T.	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	493	495	504	467	467	478	470	464	442	453	469	478	467	457	452	456	447	465	485	494	491	484	480	490	473
2 D	486	494	483	482	489	484	489	498	494	471	467	478	473	455	442	446	451	461	479	479	489	491	497	504	478
3	510	497	494	493	486	488	488	504	492	489	483	481	474	466	467	462	464	466	485	504	496	505	516	488	487
4 D	494	492	467	480	478	467	458	447	452	467	472	476	473	458	449	449	448	460	479	492	489	488	495	488	472
5	475	474	482	494	491	484	482	482	493	486	479	482	479	472	468	468	485	500	505	505	495	491	489	493	486
6	493	488	494	488	494	473	477	479	487	489	489	488	485	471	457	454	467	478	488	495	489	492	495	499	484
7	497	494	489	488	488	489	494	497	495	494	485	490	483	467	459	458	470	479	490	499	504	504	500	502	488
8	491	488	492	490	495	495	494	494	484	497	495	489	485	476	467	473	482	493	504	515	510	506	494	497	492
9	493	498	503	508	500	500	488	486	483	480	479	482	473	469	459	450	461	472	485	492	483	500	498	482	484
10	488	489	483	472	482	487	489	479	481	484	480	483	478	460	449	447	458	488	510	509	518	516	509	489	486
11	488	477	473	485	482	487	488	486	483	472	475	481	461	458	452	456	460	473	489	498	505	518	501	500	481
12	492	482	483	484	484	484	477	478	487	488	484	488	483	469	456	457	464	472	489	489	498	494	488	494	482
13 D	488	477	484	482	454	476	473	483	483	469	481	440	460	464	454	456	466	477	497	510	520	516	513	496	480
14	478	474	479	497	495	476	456	474	470	471	478	477	473	469	468	472	479	494	499	497	505	495	494	481	
15	490	495	495	495	497	499	482	485	489	491	494	493	489	479	464	459	472	484	498	501	508	507	499	484	490
16 Q	489	494	489	489	487	486	485	485	484	485	490	493	490	484	475	470	474	483	487	492	495	496	495	497	487
17	497	495	495	493	494	497	497	495	497	499	490	495	502	484	480	476	482	483	489	489	490	492	489	492	491
18 Q	495	495	493	491	493	491	493	495	495	496	496	494	488	480	479	484	495	506	516	508	504	497	496	494	495
19	495	497	498	500	501	502	504	503	500	499	502	500	490	480	467	469	481	500	517	537	537	517	506	495	500
20	469	473	490	486	485	486	487	494	493	492	494	493	485	477	473	469	479	491	504	512	513	506	503	501	490
21	502	496	496	494	497	497	497	496	497	499	502	502	498	490	476	474	481	492	505	514	505	503	505	506	497
22 Q	503	503	501	500	500	501	499	498	496	497	500	496	486	475	468	468	469	480	494	508	514	512	509	506	495
23 Q	503	503	503	502	501	502	503	502	499	499	500	500	495	480	474	479	491	505	512	517	516	507	503	503	500
24 Q	505	505	505	501	500	498	496	495	496	496	495	493	487	485	486	492	505	522	530	533	525	517	512	512	504
25	514	518	512	514	519	521	519	517	519	517	511	497	496	475	492	499	503	513	526	520	517	524	510	510	511
26	502	490	490	485	490	497	499	497	496	496	494	490	485	481	479	484	486	486	500	510	514	513	511	505	495
27	501	502	500	499	498	504	497	497	496	497	498	499	492	486	475	470	487	498	502	506	517	515	511	516	499
28	507	517	508	486	480	490	492	479	480	479	488	492	488	481	474	474	490	503	513	513	510	511	514	511	495
29 D	481	500	484	492	473	485	475	496	493	492	492	490	483	473	474	475	480	491	507	508	511	507	506	497	490
30	493	497	511	484	479	487	482	491	489	491	491	485	485	479	469	468	474	485	496	502	511	496	496	507	489
31	499	499	498	497	495	507	505	497	497	495	494	496	486	475	476	476	487	499	513	530	534	520	491	491	498
Mean	494	493	493	491	489	491	488	489	488	488	489	488	483	474	467	467	475	487	500	506	507	505	501	498	490

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 14 Agincourt

May 1963

Hour U.T. Day	D = 7° W + ...'																								
	0 to 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																							
1 D	24.9	22.8	14.0	18.2	19.7	22.2	25.4	27.4	31.0	28.7	26.1	18.0	18.7	21.2	21.9	27.2	29.2	31.6	29.0	26.8	25.1	24.7	21.5	20.7	24.0
2 D	21.1	10.4	17.2	19.7	22.4	24.0	25.6	20.6	19.7	25.7	31.0	23.7	16.6	17.6	19.7	22.7	27.2	27.6	26.6	25.7	24.0	22.6	18.2	19.5	22.0
3	21.8	20.8	16.6	21.2	19.7	19.5	17.8	20.8	17.7	17.5	18.0	16.3	17.0	18.6	19.1	20.3	23.7	27.0	28.7	26.7	25.9	23.7	17.2	20.5	20.7
4 D	16.5	14.6	19.2	21.4	19.5	23.7	22.5	26.4	29.1	25.9	16.9	16.2	13.2	12.7	16.9	21.3	26.2	27.1	26.5	25.5	24.8	23.2	18.5	17.6	21.1
5	17.7	19.3	20.4	19.6	18.1	20.9	25.5	27.0	21.1	20.1	21.0	18.3	17.5	17.7	20.5	23.7	26.9	28.9	28.6	26.7	24.2	22.5	21.8	21.4	22.0
6	21.2	20.4	16.3	18.4	19.3	18.8	20.3	19.7	20.5	21.4	19.3	17.9	16.7	17.7	21.0	23.5	26.1	27.9	28.3	27.5	26.6	24.4	22.7	21.4	21.6
7	21.3	21.4	21.1	21.4	21.7	21.8	22.3	20.8	21.5	20.3	20.7	16.5	15.7	16.7	19.6	22.3	25.7	28.7	28.8	28.7	27.5	25.4	22.7	20.9	22.1
8	17.7	20.6	21.4	19.8	21.9	24.2	21.6	20.2	23.8	21.2	16.5	15.4	15.2	16.2	18.3	23.9	27.8	30.0	29.2	27.8	26.6	24.7	22.7	22.5	22.0
9	21.8	21.4	19.2	17.2	19.9	19.8	24.9	18.9	20.1	24.7	20.6	14.5	14.7	16.6	17.3	21.9	26.6	28.8	28.4	28.2	29.0	25.8	23.9	21.8	21.9
10	22.3	19.8	17.7	20.3	21.4	21.5	19.2	19.4	17.8	17.8	18.9	17.3	14.2	14.6	17.9	23.3	28.4	28.8	29.1	29.3	24.5	24.0	23.8	21.8	21.4
11	19.5	18.0	21.7	16.4	26.2	20.9	22.6	24.0	22.9	26.2	23.9	16.8	15.7	15.5	18.4	23.1	27.1	28.9	29.1	28.6	27.4	25.1	23.4	22.3	22.6
12	22.4	19.7	20.9	21.6	21.6	21.4	23.8	24.2	22.0	18.5	17.0	15.8	15.6	14.2	17.0	19.7	23.7	25.1	27.9	28.8	27.8	25.7	24.2	23.0	21.7
13 D	20.9	13.4	17.8	18.4	23.3	23.7	17.4	20.8	22.2	22.9	18.7	26.6	21.6	18.8	19.4	21.6	23.6	24.9	25.8	25.0	24.0	22.0	20.4	21.2	21.4
14	18.8	20.7	22.7	16.1	14.9	19.8	30.1	20.7	20.9	22.9	18.8	15.2	15.5	16.3	18.7	23.1	26.8	27.9	27.6	26.4	24.7	22.1	21.4	21.7	
15	22.8	22.8	22.9	21.0	20.5	20.5	21.9	23.1	19.9	18.7	18.0	17.4	18.0	18.6	20.9	24.7	27.0	29.0	28.9	29.1	26.4	24.0	22.9	22.5	22.6
16 Q	22.2	16.5	20.6	22.5	22.6	22.1	22.2	21.6	20.7	19.7	18.4	16.7	16.0	16.2	18.5	22.4	25.4	25.7	26.1	25.8	24.7	24.0	23.1	22.2	21.5
17	22.2	21.9	21.6	21.3	21.3	20.3	18.5	18.9	19.8	18.7	19.4	16.6	13.1	11.6	14.4	19.4	23.9	27.0	29.3	27.9	25.7	24.8	23.6	22.6	21.0
18 Q	22.0	21.9	21.6	21.6	21.6	21.7	21.2	20.8	20.7	20.7	19.7	18.7	17.2	17.7	19.2	23.7	25.9	27.0	26.4	25.7	24.1	22.9	22.5	22.0	22.0
19	22.2	22.4	22.1	21.9	21.7	21.6	20.8	19.5	19.5	18.4	17.4	16.3	14.5	17.4	20.3	25.7	28.8	30.0	29.8	27.0	25.1	23.4	22.2	22.8	22.1
20	19.6	20.7	16.5	19.4	18.1	19.9	20.7	21.5	19.8	19.3	17.7	16.5	17.2	19.7	22.1	25.8	27.7	28.6	29.1	28.3	24.5	22.6	21.6	21.6	21.6
21	21.5	22.7	22.9	22.9	22.0	21.6	21.2	21.2	20.7	19.8	18.1	16.4	15.7	16.7	20.9	26.7	29.3	28.9	28.3	27.6	26.9	24.9	21.6	20.6	22.5
22 Q	38.1	37.9	38.0	37.6	37.9	37.7	37.9	37.9	38.5	38.5	38.7	38.5	37.2	36.4	37.4	21.9	25.8	28.8	29.0	27.4	24.8	22.7	21.1	20.6	32.9
23 Q	21.5	21.8	21.5	21.5	21.5	21.4	20.5	20.6	19.5	19.2	16.0	14.4	14.2	16.8	20.6	25.7	28.2	28.9	28.4	26.8	24.7	23.7	22.6	22.6	21.8
24 Q	22.6	22.4	22.1	21.8	21.5	21.3	20.7	19.2	19.5	18.6	17.3	16.5	16.8	18.4	20.5	23.7	24.7	25.1	25.7	25.2	24.2	22.6	22.6	22.1	21.5
25	21.9	21.5	21.9	21.5	20.7	20.5	19.5	18.4	18.2	17.3	15.3	13.4	14.5	15.3	22.6	26.8	28.4	28.7	28.5	27.9	26.8	24.6	23.1	21.5	21.6
26	20.5	22.3	22.0	22.1	22.0	22.8	21.5	20.5	20.7	20.0	18.4	17.6	17.5	17.9	18.9	22.1	24.8	28.7	29.8	29.1	27.9	25.7	24.5	21.3	22.4
27	20.9	21.8	22.3	22.7	23.0	22.5	21.9	21.7	20.6	19.9	18.1	21.3	15.4	15.2	16.2	18.3	23.4	25.6	26.7	27.3	27.5	25.6	23.4	21.4	21.8
28	20.2	22.3	20.4	13.1	15.4	19.4	22.7	21.8	29.8	30.9	21.4	17.6	16.7	18.3	21.4	25.6	27.8	29.0	30.3	28.8	26.2	23.6	22.0	21.4	22.8
29 D	21.0	20.5	10.0	8.7	18.2	25.7	29.9	26.0	21.5	19.5	17.3	17.3	17.3	18.6	21.8	24.7	26.6	27.9	27.0	26.6	23.7	23.5	22.6	22.4	21.7
30	22.6	22.1	16.3	17.1	23.7	21.2	23.3	20.5	19.8	20.0	19.5	18.4	17.1	17.6	19.7	23.1	26.3	26.8	25.7	25.7	24.0	22.6	21.8	22.1	21.5
31	22.8	23.5	23.5	23.5	23.5	23.5	22.8	21.9	22.6	22.4	20.5	17.3	16.8	20.6	23.7	25.9	27.6	26.8	26.8	25.7	24.9	21.7	22.4	21.5	23.0
Mean	21.7	20.9	20.4	20.3	21.4	22.1	22.8	22.1	22.0	21.8	20.0	18.0	16.9	17.7	20.2	23.3	26.5	27.9	28.0	27.2	25.7	23.9	22.2	21.5	22.3

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 15 Agincourt

Z = 56,000 γ +

May 1963

Hour U. T. Day	0 to 1 1	1 to 2 2	2 to 3 3	3 to 4 4	4 to 5 5	5 to 6 6	6 to 7 7	7 to 8 8	8 to 9 9	9 to 10 10	10 to 11 11	11 to 12 12	12 to 13 13	13 to 14 14	14 to 15 15	15 to 16 16	16 to 17 17	17 to 18 18	18 to 19 19	19 to 20 20	20 to 21 21	21 to 22 22	22 to 23 23	23 to 24 24	Mean
1 D	124	124	143	136	145	134	111	97	77	80	90	116	117	120	121	117	117	126	130	133	134	138	144	144	122
2 D	137	126	116	122	107	68	72	106	121	102	76	90	111	115	115	112	115	122	125	127	130	133	139	137	113
3	134	137	131	132	128	118	112	105	117	124	128	127	124	121	115	117	121	124	123	132	134	141	149	144	127
4 R	136	115	129	130	122	93	77	64	37	50	101	121	122	118	114	115	118	125	127	129	133	136	143	141	112
5	140	135	132	112	99	114	110	105	110	114	123	124	123	120	117	111	114	120	121	120	124	128	129	130	120
6	128	127	119	113	86	97	113	118	124	126	125	123	123	123	121	121	123	119	115	120	125	130	130	130	120
7	127	125	125	124	124	123	122	118	123	121	122	120	118	117	115	114	114	113	119	124	128	129	129	132	122
8	134	132	130	125	124	118	119	119	105	111	116	121	122	120	119	117	112	113	117	119	125	132	134	132	122
9	128	127	123	111	115	112	67	87	105	101	101	114	115	114	110	107	108	113	122	132	137	138	143	139	115
10	132	132	128	129	134	128	106	100	119	126	128	131	127	123	121	121	126	128	133	144	154	151	153	155	130
11	145	144	101	124	.84	121	123	121	117	119	114	122	119	128	125	125	122	125	132	136	135	141	141	145	125
12	143	142	141	137	131	127	121	110	114	125	130	132	131	128	123	122	120	118	120	123	132	140	141	138	129
13 D	140	137	130	130	64	77	110	121	114	94	119	99	113	122	123	125	130	130	130	137	145	147	147	121	
14	149	144	126	101	100	119	89	93	97	99	99	112	116	115	113	115	116	119	121	123	128	135	135	116	
15	130	126	126	124	115	103	99	112	120	126	127	126	124	122	124	125	119	119	123	131	138	141	141	135	124
16 Q	134	126	122	125	124	125	126	126	126	129	131	132	130	124	124	127	125	121	124	125	129	132	132	132	127
17	129	125	124	123	124	121	116	121	124	124	121	114	113	114	111	109	106	104	106	111	116	122	124	124	118
18 Q	124	123	123	123	122	122	122	122	121	124	125	125	122	119	117	113	112	114	120	124	124	123	125	123	121
19	120	120	120	120	120	120	119	118	117	121	125	125	124	120	115	118	119	122	129	134	138	141	145	155	125
20	160	146	122	102	113	122	125	125	127	129	128	125	122	118	114	109	103	109	117	119	119	121	123	125	122
21	125	123	124	123	120	122	124	123	122	124	126	123	119	116	114	115	114	113	117	124	128	128	126	125	122
22 Q	120	119	119	119	119	119	119	119	121	122	124	122	116	112	115	118	111	109	118	119	120	123	124	124	119
23 Q	121	121	121	121	121	121	121	121	120	116	116	116	116	111	106	108	108	116	125	121	121	121	121	118	
24 Q	120	120	120	118	118	120	118	118	120	120	120	120	120	115	107	102	105	110	118	115	114	115	118	116	
25	117	114	114	117	117	114	114	114	114	117	119	117	111	105	100	102	109	114	119	119	119	122	127		
26	114	126	126	129	118	108	108	113	118	118	118	118	114	109	105	98	103	109	116	123	126	126	116		
27	123	120	118	117	116	109	112	112	117	117	117	112	112	103	97	92	99	102	108	112	117	117	112		
28	121	116	108	100	101	106	111	100	94	85	91	102	107	111	109	108	106	107	115	121	121	121	121	109	
29 D	118	116	110	71	83	84	58	86	106	110	115	115	110	110	110	110	110	113	115	118	118	120	120	106	
30	121	120	107	97	87	63	43	99	113	115	113	114	115	115	116	116	120	122	123	120	120	119	115	109	
31	114	114	114	114	114	109	104	107	110	114	109	104	104	104	101	101	109	109	114	119	127	143	136	130	114
Mean	129	127	122	118	113	111	106	110	112	113	116	118	118	117	115	114	113	115	120	124	127	130	132	132	119

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 16 Agincourt

H = 15,500 γ +

June 1963

Hour U.T. Day	0 to 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
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	
1	496 491 491 491 485 491 490 497 496 495 480 496 489 471 459 465 467 479 492 502 512 513 506 496 490	
2	502 498 498 498 499 491 501 497 491 497 502 503 501 486 491 472 464 475 481 486 491 507 507 507 494	
3	497 495 497 503 498 497 503 498 497 497 493 490 491 481 470 467 470 482 493 502 510 513 502 503 494	
4 Q	497 493 494 494 492 493 493 486 491 496 497 498 490 477 474 464 474 481 490 497 501 506 497 496 490	
5 Q	498 497 496 494 494 492 493 492 494 496 500 497 487 478 470 466 470 481 487 492 497 505 503 503 491	
6	502 503 503 505 503 503 502 502 503 505 508 509 500 481 473 473 481 508 535 551 572 551 519 541 510	
7 D	519 516 511 454 445 445 423 386 455 459 463 457 451 446 447 425 432 451 454 482 490 499 498 488 462	
8	490 488 487 488 483 486 487 484 486 474 480 480 478 466 451 445 452 458 476 491 493 514 526 505 482	
9	493 495 486 480 483 483 488 485 483 482 483 475 478 473 462 457 455 474 487 496 505 508 505 499 484	
10	501 499 493 491 494 496 493 493 491 487 483 488 484 473 470 465 471 484 498 513 518 506 506 505 492	
11	506 507 504 496 494 506 494 496 498 496 492 483 478 468 465 481 493 501 510 512 515 511 510 494 496	
12	509 502 500 504 494 494 494 495 496 500 499 497 496 485 473 459 456 468 488 505 510 515 518 514 495	
13	506 499 500 493 496 514 500 499 499 490 489 495 495 492 486 474 476 480 485 495 506 511 507 505 494	
14	502 490 499 499 499 500 500 500 500 506 505 503 500 499 496 496 505 505 506 507 507 511 507 506 502	
15	506 497 501 500 496 493 493 490 499 500 501 503 499 489 479 483 496 507 520 524 527 506 501 497 500	
16 Q	499 503 501 501 501 501 500 500 505 508 506 498 489 484 479 480 492 512 521 522 514 508 510 501	
17	507 495 498 506 510 500 495 490 493 494 492 479 453 456 469 478 481 492 489 501 512 511 507 492	
18 D	500 501 498 484 474 484 501 503 501 507 506 496 474 488 480 480 494 487 528 545 518 507 492 497	
19	473 481 488 485 485 491 489 493 497 500 497 493 485 474 468 470 473 482 508 501 512 504 507 510 490	
20	494 497 480 496 498 495 484 485 486 479 476 483 489 482 463 458 474 496 512 520 523 517 515 516 492	
21	506 497 501 498 507 496 494 493 513 493 500 497 493 483 475 477 482 490 499 501 507 502 507 507 497	
22 Q	509 511 502 502 499 502 502 498 500 498 498 493 488 486 485 485 490 496 509 517 523 516 511 500 501	
23 Q	501 501 500 501 500 501 497 496 498 498 498 498 489 482 477 476 488 501 453 509 507 507 515 512 496	
24	509 509 507 508 509 517 513 507 511 510 512 503 498 497 481 475 499 514 515 513 514 512 521 524 507	
25 D	517 519 502 499 478 491 484 490 503 516 502 499 494 486 494 499 505 508 512 557 512 513 525 490 504	
26 D	491 481 480 481 481 460 491 486 462 479 498 498 492 485 481 477 473 471 484 500 498 506 512 512 511 488	
27 D	510 508 498 502 481 481 502 491 508 502 498 494 492 491 491 486 485 483 481 486 492 503 521 507 496	
28	512 503 508 507 505 502 497 494 481 498 503 502 492 485 474 484 485 483 498 513 511 515 505 502 498	
29	499 501 502 503 502 503 505 502 502 503 505 501 499 494 481 450 470 497 503 511 516 518 510 503 499	
30	507 494 490 494 499 491 493 498 498 498 503 492 496 486 482 474 464 468 482 493 508 508 496 505 498 492	
31		
Mean	502 499 497 495 492 494 493 490 495 496 495 494 488 480 474 471 476 487 496 508 512 511 510 505 494	

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 17 Agincourt

D = 7° W + ...'

June 1963

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	21.2	20.0	19.5	19.5	15.5	19.5	21.5	20.7	21.1	28.9	23.9	14.4	12.3	13.7	17.6	23.9	26.8	29.4	28.8	27.4	25.3	22.6	21.3	20.5	21.5	
2	19.0	20.9	19.0	20.6	20.9	24.6	24.6	21.6	20.8	18.5	17.4	19.3	24.8	19.6	20.1	24.4	26.9	26.9	28.6	29.0	26.1	24.0	22.1	20.7	22.5	
3	20.6	21.6	20.6	19.3	18.0	19.6	21.9	21.6	21.6	18.5	16.5	14.8	14.8	16.9	18.5	21.6	24.3	26.9	26.9	26.1	23.8	22.7	22.2	21.1	20.8	
4 Q	21.5	21.6	21.7	22.3	22.3	22.3	24.9	18.4	23.6	19.1	16.5	14.6	14.6	16.5	20.5	23.9	26.2	27.5	27.8	27.0	24.9	22.8	21.7	21.5	21.8	
5 Q	21.0	21.7	22.6	22.6	22.6	22.0	21.7	21.2	20.7	19.7	17.9	15.5	14.6	16.8	20.5	23.1	27.8	18.1	28.6	27.5	25.4	23.0	21.0	20.5	21.6	
6	20.8	21.3	21.8	21.8	21.8	21.8	21.1	20.1	19.2	18.2	16.4	13.4	13.2	15.0	16.6	22.1	26.4	29.0	32.6	32.6	38.0	38.1	35.2	29.7	23.6	
7 D	26.7	12.4	8.9	13.6	11.4	20.9	33.5	35.1	35.4	21.1	20.1	16.2	14.8	18.0	19.9	25.1	30.3	29.8	32.3	29.5	28.3	25.6	19.2	21.9	22.9	
8	22.0	22.0	21.2	21.8	22.4	24.2	25.0	22.9	23.1	21.5	19.4	15.8	15.8	16.8	18.0	23.1	26.5	29.2	29.4	29.2	29.2	26.6	20.8	21.0	22.8	
9	21.6	22.6	26.3	20.1	23.4	24.8	22.1	21.1	22.1	21.5	19.0	18.5	16.5	16.9	18.3	22.7	26.9	30.0	29.5	17.9	25.3	23.4	21.9	20.9	22.2	
10	20.7	20.4	22.2	22.4	22.2	22.8	22.6	22.2	21.2	20.4	20.2	15.4	14.9	15.7	18.0	21.2	26.4	28.6	28.0	28.3	26.4	26.2	24.4	23.5	22.3	
11	22.3	21.3	20.5	21.3	22.6	21.6	21.4	21.6	20.9	19.7	17.3	15.0	14.7	15.2	16.3	19.1	24.5	27.6	27.8	27.6	26.0	23.4	20.5	20.3	21.2	
12	20.7	21.4	22.2	18.6	20.9	21.6	23.4	22.7	21.3	20.3	19.4	18.1	25.5	25.8	17.4	20.8	25.0	28.1	30.5	30.7	28.7	25.7	22.8	21.5	23.0	
13	21.4	21.4	19.3	21.6	22.4	21.9	22.4	20.4	19.8	15.3	22.4	12.0	12.5	14.6	17.0	20.4	25.6	28.4	29.3	29.6	26.1	24.6	27.7	22.2	21.4	
14	19.1	18.4	22.4	22.7	23.0	22.7	22.4	22.4	22.4	21.6	20.4	17.0	16.2	17.2	17.7	19.5	22.7	24.1	25.1	25.6	25.1	24.0	22.2	21.4	21.5	
15	21.0	19.9	20.7	21.5	21.0	22.5	21.5	21.3	22.2	20.5	18.3	16.3	17.1	18.3	20.5	25.9	28.9	28.0	28.9	28.6	27.8	26.2	24.4	23.6	22.7	
16 Q	23.2	22.8	22.9	22.8	22.5	22.5	22.5	22.5	22.3	21.5	19.0	17.3	16.5	17.3	19.4	23.6	27.8	30.7	28.9	26.2	23.6	22.5	21.1	20.2	22.5	
17	20.8	22.3	23.0	22.9	22.3	22.9	24.7	21.5	24.1	21.5	16.5	25.5	15.7	19.6	23.0	25.7	28.0	29.4	29.4	28.9	26.7	23.1	20.5	21.5	23.3	
18 D	21.7	21.5	22.0	15.2	21.5	14.2	17.1	18.9	18.8	18.3	17.1	14.6	13.6	19.6	19.4	22.2	27.1	28.4	29.9	27.0	22.8	25.3	26.5	25.5	21.2	
19	20.7	21.3	18.3	20.5	20.5	22.5	22.5	21.8	21.3	19.9	18.7	17.8	18.6	19.4	20.8	24.1	25.2	27.8	28.4	30.4	27.8	27.8	25.7	23.6	22.7	
20	20.2	18.2	18.9	22.0	22.8	22.0	27.0	29.9	22.2	22.3	19.2	19.8	16.3	16.3	19.4	24.4	26.7	28.2	29.6	28.1	25.7	25.7	24.0	23.6	23.0	
21	20.5	21.1	22.5	22.2	23.1	21.7	21.5	21.5	24.7	23.6	17.3	16.3	16.3	16.5	17.3	18.7	23.4	26.2	26.7	27.3	26.3	24.9	23.4	22.5	21.9	
22 Q	22.5	21.5	22.5	22.3	22.3	22.8	20.5	22.0	20.5	20.5	20.0	19.4	19.4	19.9	21.0	23.8	25.9	27.8	28.9	28.5	27.0	25.5	24.2	23.4	23.0	
23 Q	23.1	22.3	22.5	23.8	23.6	22.0	22.3	22.3	21.5	22.1	20.2	22.9	15.7	18.6	24.7	28.6	27.8	28.9	27.8	25.1	23.0	21.5	21.5	22.3	23.1	
24	21.7	22.3	22.8	22.8	22.5	21.7	23.1	20.7	20.5	19.5	18.1	16.3	15.0	16.8	18.9	23.8	27.0	27.6	26.9	28.3	27.8	27.3	25.6	26.5	22.5	
25 D	23.2	23.1	21.7	22.0	20.9	13.1	29.9	24.9	17.8	18.3	17.3	16.8	16.0	17.5	21.0	22.5	24.4	37.3	26.5	27.4	26.2	30.1	25.9	22.5	22.8	
26 D	19.7	1.2	17.1	17.7	22.4	22.6	22.2	31.0	30.5	21.8	18.2	16.4	16.6	17.6	17.4	21.4	22.5	23.9	26.2	26.3	26.0	25.9	23.7	24.5	21.4	
27 D	23.7	23.5	16.4	25.1	17.2	23.5	18.4	24.2	23.6	19.0	18.0	19.9	19.6	17.4	18.4	19.7	22.6	25.7	27.9	27.5	26.0	26.8	24.8	21.9	22.1	
28	20.9	22.6	22.1	22.3	22.1	19.7	19.0	22.0	32.3	25.2	19.5	17.4	17.9	18.4	18.7	21.8	23.7	26.8	28.3	29.2	26.6	24.8	24.5	23.2	22.9	
29	22.1	21.9	21.9	22.6	23.1	22.9	23.7	26.0	23.7	20.6	17.6	16.4	15.0	14.5	16.1	18.4	23.7	26.6	29.0	28.1	26.5	24.9	23.0	21.6	22.1	
30	20.8	19.7	20.6	22.1	23.5	26.0	25.9	22.0	22.4	21.6	22.1	21.9	20.3	18.4	18.4	19.3	23.8	28.1	29.6	26.8	26.3	26.3	24.1	20.6	23.0	
31																										
Mean	21.5	20.4	20.8	21.2	21.4	21.8	23.0	22.8	22.7	20.7	18.8	17.2	16.5	17.5	19.0	22.5	25.8	27.8	28.6	27.7	26.5	25.4	23.4	22.5	22.3	

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 18 Agincourt

Z = 56,000 γ +

June 1963

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	121	118	118	113	108	108	112	113	113	92	63	66	83	92	92	98	108	111	116	124	124	121	121	119	106	
2	118	116	113	104	99	88	92	103	111	114	115	109	92	95	99	95	99	103	113	118	124	124	124	119	108	
3	116	115	113	110	102	97	86	95	104	115	112	112	112	108	107	107	110	112	117	116	120	124	123	123	111	
4 Q	123	120	117	117	117	117	113	101	110	118	123	123	121	120	116	111	110	108	115	120	123	125	124	124	117	
5 Q	122	120	117	117	117	117	117	119	120	122	123	122	121	119	114	107	110	111	116	117	121	122	122	121	118	
6	116	116	116	116	116	115	116	116	117	117	121	119	117	116	111	103	101	106	109	116	127	161	123	204	121	
7 D	220	204	89	19	79	100	18	38	142	122	131	118	119	118	124	131	122	128	133	139	142	148	159	139	120	
8	26	126	122	116	118	115	151	105	105	94	95	105	111	109	110	113	115	118	116	121	128	135	155	148	115	
9	147	111	112	111	89	78	152	108	114	123	119	118	121	121	120	124	122	119	116	121	126	127	131	131	119	
10	126	121	121	121	121	115	118	121	120	115	111	111	109	108	110	113	111	115	122	127	126	127	125	118	118	
11	123	120	115	114	115	100	110	116	121	121	118	117	115	111	110	104	103	99	110	114	111	120	126	127	114	
12	125	122	121	110	110	111	114	113	115	121	116	116	118	115	111	114	116	115	122	122	121	121	123	126	117	
13	127	126	121	121	121	120	120	115	109	108	105	105	100	104	102	105	106	105	105	109	115	122	121	122	113	
14	122	125	121	116	115	116	115	115	115	115	113	112	111	113	111	106	108	114	115	115	115	118	110	106	114	
15	121	120	117	115	108	69	68	105	106	113	115	115	110	105	105	105	100	101	105	111	115	115	118	120	108	
16 Q	114	110	110	110	110	110	110	110	111	114	113	110	110	111	114	115	116	118	121	121	122	117	118	111	114	
17	118	117	115	112	105	103	100	99	95	82	86	85	84	86	90	95	95	109	127	134	139	141	141	133	108	
18 D	126	121	120	110	141	137	147	156	105	121	121	118	114	113	112	105	110	115	131	171	209	199	196	200	137	
19	170	196	121	142	110	115	113	120	121	121	121	115	111	110	105	99	102	106	112	123	126	134	132	123		
20	142	135	137	135	129	124	98	64	85	89	97	105	106	106	106	108	116	122	127	122	124	123	114			
21	123	122	122	119	97	100	106	106	100	96	111	112	111	107	105	100	109	110	109	112	116	114	116	117	110	
22 Q	116	115	114	115	111	105	103	100	106	114	116	115	113	107	106	106	109	109	106	112	115	117	120	118	111	
23 Q	119	120	117	117	115	115	115	115	117	117	118	117	112	109	113	112	107	106	113	116	118	123	122	117	115	
24	117	115	115	115	115	103	97	108	114	116	117	112	112	111	107	108	110	107	110	112	115	112	115	115	112	
25 D	112	119	128	118	102	85	20	59	93	104	110	112	108	109	112	113	116	115	112	117	139	172	166	181	114	
26 D	161	129	124	106	55	114	118	63	46	93	118	125	123	118	123	125	118	118	124	125	128	133	134	129	115	
27 D	126	125	125	109	86	82	94	72	78	99	108	111	104	107	108	113	121	123	124	125	138	134	139	136	112	
28	134	129	124	119	118	112	109	113	134	150	117	118	113	115	112	115	114	119	126	125	124	129	127	126	122	
29	125	124	124	123	122	120	117	107	110	118	121	118	113	111	108	108	113	120	124	128	129	128	128	129	120	
30	128	128	124	124	113	98	77	88	103	112	109	112	112	115	115	118	118	123	125	129	129	130	135	139	117	
31																										
Mean	126	126	118	113	109	106	104	102	108	112	112	112	110	109	109	110	112	117	122	127	130	131	132	115		

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 19 Agincourt

H = 15,500 γ +

July 1963

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	503	500	509	497	497	499	503	502	502	500	498	498	493	491	482	474	476	487	503	515	522	516	513	500	499
2 Q	500	500	502	502	502	503	503	506	502	506	506	498	490	535	471	476	482	488	503	512	514	517	514	501	
3 Q	513	510	508	506	506	504	504	503	504	506	506	508	504	502	490	479	483	497	514	520	525	526	521	518	507
4	514	514	515	516	515	502	503	504	514	517	514	499	493	481	477	490	508	578	546	557	540	487	515		
5	505	513	509	518	514	502	498	474	497	506	506	498	487	480	470	473	477	484	490	509	530	514	525	498	499
6	506	508	503	493	488	500	485	445	466	495	496	494	485	478	464	461	469	477	493	510	521	521	510	503	490
7	505	507	500	492	496	499	503	503	499	488	503	489	493	483	466	474	475	483	505	510	511	515	507	503	496
8	507	504	520	510	504	515	510	499	490	507	504	500	499	496	488	472	484	488	497	499	508	523	516	515	502
9	511	522	501	502	489	503	487	505	500	499	500	500	488	481	472	475	490	504	510	515	520	508	511	518	500
10	504	503	509	517	507	503	503	505	499	504	506	504	498	485	473	475	493	510	518	521	531	515	504	503	504
11	516	515	506	511	509	511	512	505	502	500	500	501	500	489	479	479	485	492	505	511	505	511	512	510	503
12	510	508	504	505	511	510	508	505	505	505	506	506	504	497	491	491	493	494	501	511	520	526	526	527	507
13	519	515	513	510	513	511	510	505	511	508	511	511	510	499	488	478	480	494	511	521	532	531	520	514	509
14 Q	512	512	512	512	511	511	512	512	512	516	520	517	513	504	489	487	498	514	524	527	528	533	528	520	513
15 Q	517	516	515	512	514	511	514	516	516	515	516	510	501	495	489	494	506	511	517	521	519	522	520	526	512
16	532	524	510	517	506	510	513	516	514	516	520	521	515	510	510	515	524	532	541	544	524	520	539	533	521
17	506	494	501	494	500	488	485	499	510	504	536	473	462	478	472	478	494	513	529	532	528	521	517	505	501
18	503	501	502	506	506	513	513	509	505	501	500	500	506	498	479	480	511	514	512	518	517	524	508	498	505
19	509	509	512	507	504	501	502	503	505	506	506	496	486	480	474	478	485	491	506	515	518	517	514	502	
20	512	512	511	511	512	506	509	507	511	512	515	516	509	495	490	495	453	519	529	528	521	519	521	519	509
21 D	519	517	517	518	512	512	520	532	528	521	495	490	486	509	490	453	467	474	500	506	507	520	523	513	505
22	506	505	502	503	505	502	491	502	485	504	510	501	492	484	474	461	454	479	495	509	513	513	509	506	496
23 D	502	506	512	513	514	513	495	503	507	509	513	517	517	503	485	486	473	490	506	519	532	540	541	516	509
24 D	502	506	501	452	465	476	497	510	499	487	502	502	489	486	496	479	479	485	480	487	502	504	513	512	492
25	509	505	502	494	485	486	490	488	505	512	507	501	499	483	480	494	506	517	532	532	524	509	509	502	503
26	495	499	499	498	502	503	509	499	494	509	502	488	494	483	471	475	480	493	507	518	514	503	506	512	498
27	504	496	488	504	502	496	496	493	499	504	509	504	501	474	466	474	482	493	508	520	514	518	513	499	
28	510	507	492	496	498	498	502	503	498	493	500	500	492	477	467	464	464	487	502	508	515	518	515	508	496
29 Q	505	508	508	509	508	508	510	511	511	510	514	513	505	492	492	484	481	492	511	522	529	531	532	523	509
30 D	500	497	508	493	477	498	493	488	438	517	514	504	476	492	502	481	470	498	509	522	529	532	541	492	499
31 D	520	498	494	496	515	504	544	492	492	496	492	492	482	486	490	481	476	492	495	513	518	521	524	513	501
Mean	509	507	506	504	503	503	504	501	500	505	507	502	496	491	484	478	484	494	510	517	521	521	519	511	503

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 20 Agincourt

D = 7° W + ...'

July 1963

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	21.7	21.5	19.5	19.5	21.0	23.0	24.5	24.1	22.9	21.9	20.9	20.2	20.0	20.0	20.7	22.9	26.5	31.1	31.8	29.4	26.1	25.7	23.9	23.4	23.4
2 Q	23.2	23.0	23.1	23.0	22.9	22.7	22.7	22.6	24.0	23.0	19.8	18.1	16.5	15.9	17.7	20.9	24.6	28.0	28.8	29.1	28.0	26.7	25.4	23.9	23.1
3 Q	23.5	23.2	21.7	22.7	23.0	22.5	22.1	21.9	21.9	21.6	20.7	19.1	17.5	17.5	18.8	22.5	25.9	28.2	28.0	26.6	25.9	24.6	23.6	23.0	22.8
4	23.1	23.2	23.3	22.6	19.7	18.9	17.6	19.5	20.4	18.0	15.3	12.1	12.6	14.7	18.6	24.5	29.2	29.4	30.2	30.0	32.1	31.8	30.0	35.4	23.0
5	25.3	25.0	24.4	22.0	24.5	25.0	21.8	19.1	24.4	20.2	17.6	24.4	22.3	23.4	16.6	20.8	24.5	28.5	31.2	31.9	30.6	28.1	25.2	26.6	24.3
6	24.3	21.0	27.4	19.7	33.3	11.5	17.6	30.9	31.8	18.9	17.6	15.5	15.0	16.6	18.6	23.9	26.5	29.4	30.0	30.0	27.9	26.0	25.0	24.3	23.4
7	24.2	24.0	20.9	19.6	24.0	25.1	25.2	22.8	23.2	25.8	21.1	18.3	25.1	25.1	19.8	22.1	26.6	28.6	28.6	30.3	29.5	28.2	26.3	25.1	24.6
8	24.0	21.8	17.0	20.9	20.3	20.6	20.9	26.1	30.3	23.4	19.3	17.7	15.6	15.6	17.9	22.4	26.9	28.2	29.9	32.4	31.6	29.0	27.4	26.1	23.5
9	24.0	16.4	18.2	17.5	23.2	18.5	25.3	22.3	24.5	27.9	21.7	16.9	16.7	18.0	19.8	24.8	27.4	28.2	28.2	28.2	27.4	28.2	26.8	23.2	23.1
10	24.4	23.3	23.0	23.4	20.7	20.7	28.5	25.4	27.2	22.8	18.7	16.2	17.3	19.9	21.4	24.5	26.2	29.4	30.4	29.6	27.7	26.7	26.2	23.9	24.1
11	21.2	21.8	22.5	21.2	23.3	22.5	22.8	23.3	23.6	22.5	20.1	18.2	16.8	17.8	19.9	22.2	24.4	28.3	28.3	27.8	28.3	28.1	26.2	25.2	23.2
12	23.9	23.8	23.9	22.7	23.0	24.3	25.2	23.9	23.0	22.0	21.0	19.9	18.8	19.1	19.9	20.6	22.0	24.7	27.8	28.5	27.8	26.2	24.1	25.2	23.4
13	23.5	22.5	22.8	22.8	22.5	23.9	25.2	24.5	21.3	18.8	17.1	17.2	18.6	21.5	25.2	27.5	29.4	29.4	29.2	27.9	26.6	25.2	24.1	23.5	23.8
14 Q	24.3	24.3	22.8	23.0	23.6	23.9	23.5	23.9	23.3	22.0	19.4	16.6	15.5	16.8	19.4	23.6	27.2	28.3	28.3	28.3	27.8	26.0	24.1	23.6	23.3
15 Q	23.7	22.9	23.1	22.1	22.2	22.1	22.9	22.9	21.6	20.5	19.1	27.3	26.3	17.7	20.4	24.2	27.3	30.3	30.0	29.2	27.5	26.5	27.3	26.3	24.3
16	23.7	24.0	20.5	17.1	21.1	22.1	21.3	21.1	21.1	21.1	19.2	17.9	16.3	17.5	20.0	23.1	25.5	25.0	25.4	25.0	24.9	24.9	24.2	24.0	21.9
17	22.6	26.1	18.1	17.7	15.3	10.6	17.6	18.8	26.3	24.6	17.9	22.9	28.4	26.1	26.5	31.8	34.9	33.3	28.9	26.8	26.7	25.8	25.0	24.8	24.1
18	24.4	24.7	24.2	23.7	22.3	22.9	21.9	23.1	22.3	20.6	19.2	20.0	19.3	18.9	22.1	26.8	28.4	28.6	29.7	28.8	28.6	27.7	26.5	25.4	24.2
19	24.0	22.1	22.4	24.5	24.7	23.7	22.6	22.9	22.1	21.3	20.0	21.9	24.1	27.1	29.5	30.7	30.1	28.2	26.1	23.4	23.3	18.5	19.2	20.0	23.8
20	28.3	23.9	24.0	23.8	23.4	23.5	23.0	22.7	22.0	21.0	19.7	17.8	18.3	18.6	18.8	21.8	26.4	30.2	31.4	30.2	27.7	24.1	23.0	22.0	23.4
21 D	22.0	22.7	22.8	22.2	19.9	20.7	24.1	24.3	18.8	21.0	21.0	24.1	28.8	15.8	17.6	23.9	32.6	32.7	32.5	32.4	29.6	26.5	24.0	22.8	24.3
22	22.0	22.3	23.0	22.0	22.5	26.2	34.6	23.9	25.6	27.2	21.1	18.0	19.3	19.7	20.1	23.9	29.1	29.7	30.4	30.2	28.5	26.0	22.0	24.1	24.6
23 D	19.8	22.3	22.0	22.7	22.0	23.4	26.9	22.8	22.0	19.4	27.0	24.4	25.2	27.1	19.9	22.4	22.2	26.3	29.1	30.5	29.1	26.2	22.7	15.4	23.8
24 D	20.2	26.0	19.9	10.9	17.7	27.5	33.8	22.9	22.1	28.5	21.1	18.2	19.6	19.1	18.7	21.1	22.9	24.8	28.2	28.2	27.8	26.1	23.2	23.4	23.0
25	22.9	23.2	22.0	12.4	22.2	23.2	22.9	30.3	27.5	21.3	19.4	18.2	16.7	17.9	21.0	24.8	29.4	32.6	32.5	30.1	26.7	25.8	24.1	22.9	23.7
26	22.6	22.5	21.2	20.2	19.2	21.0	23.7	21.8	26.5	20.6	19.7	21.7	18.1	18.9	22.8	26.4	29.2	28.4	28.6	29.2	30.0	27.6	23.1	22.6	23.6
27	17.4	12.8	19.8	16.7	22.7	21.7	28.0	30.4	29.6	28.1	18.3	16.5	15.4	18.4	14.4	28.0	27.9	29.1	29.1	28.0	26.8	25.2	23.4	22.6	22.9
28	18.8	19.1	20.7	22.1	23.3	25.6	27.8	22.7	22.0	24.9	21.9	18.5	17.3	17.6	19.6	23.8	26.4	28.0	28.5	29.1	28.1	26.7	25.1	24.1	23.4
29 Q	23.8	23.2	23.5	23.6	22.8	22.6	22.6	23.2	22.6	21.6	19.7	17.9	16.6	18.3	20.3	24.6	28.0	29.8	29.0	28.1	26.6	25.7	24.6	21.8	23.4
30 D	16.6	19.7	21.3	8.0	16.6	17.9	16.6	17.6	33.1	20.3	15.5	13.5	18.4	23.7	23.5	23.3	25.8	30.0	30.8	33.5	30.0	29.6	25.8	22.8	22.2
31 D	15.6	18.3	23.0	22.3	19.5	20.7	20.6	20.5	21.5	20.0	18.6	26.1	17.3	20.1	19.4	21.7	24.0	25.4	28.3	28.9	27.8	26.5	25.7	21.8	22.2
Mean	22.4	22.3	22.0	20.4	22.0	21.9	23.7	23.3	24.1	22.3	19.6	19.2	19.2	19.5	20.3	24.0	27.0	28.8	29.3	29.1	28.0	26.4	24.8	23.8	23.5

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 21 Agincourt

Z = 56,000 γ +

July 1963

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
Hour U.T.	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	
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	133	129	116	112	117	113	112	111	118	121	124	124	121	124	118	116	117	114	118	117	118	118	121	118	119
2 Q	118	118	118	119	118	119	119	118	117	118	119	117	116	114	113	112	111	113	113	116	118	124	125	124	118
3 Q	119	118	117	117	117	117	118	118	118	120	121	119	117	117	115	112	113	114	122	121	121	123	124	118	
4	118	117	117	114	112	108	103	111	114	121	119	116	112	107	104	109	108	112	118	135	169	196	204	173	126
5	139	134	135	137	131	74	57	82	120	132	133	129	123	118	119	119	121	118	118	124	129	139	139	139	120
6	142	135	129	130	10	56	82	43	51	109	123	125	124	119	114	118	118	123	125	129	131	128	125	124	109
7	124	124	124	124	124	116	113	117	112	98	90	90	90	103	112	113	117	108	104	107	103	111	113	118	112
8	124	118	108	107	92	90	92	90	76	101	113	115	117	117	116	115	114	109	108	110	113	120	131	135	110
9	137	124	118	112	69	81	40	78	96	103	107	112	112	117	118	117	105	98	101	112	123	125	128	131	107
10	125	121	119	104	101	101	88	90	95	109	114	114	114	111	109	104	102	100	101	104	114	119	122	126	109
11	119	114	113	109	93	96	84	99	110	117	117	118	114	114	109	103	100	106	108	114	119	119	121	120	110
12	119	119	118	118	114	109	106	109	114	115	117	118	114	108	101	93	89	91	92	101	109	114	118	114	109
13	114	115	116	116	115	116	114	110	105	112	116	116	116	114	111	110	105	106	115	119	126	123	120	115	
14 Q	119	116	114	114	114	115	115	115	115	116	116	115	114	115	110	104	111	110	106	110	115	119	119	116	114
15 Q	115	115	115	116	115	115	115	115	115	115	116	115	114	115	111	103	105	105	105	112	112	114	116	115	113
16	115	116	120	112	119	118	117	116	115	116	115	114	111	111	105	101	100	105	113	115	115	118	120	123	114
17	119	118	117	111	61	59	83	88	61	37	65	86	83	83	146	103	106	115	114	118	122	123	126	126	99
18	126	126	123	120	115	113	99	107	115	115	115	112	111	109	101	90	100	104	103	108	117	126	129	131	113
19	127	120	112	115	115	115	115	114	115	117	116	114	110	110	105	101	102	105	110	114	119	120	121	116	114
20	115	115	115	115	115	115	115	115	115	119	120	119	115	107	95	89	90	94	99	105	110	112	116	116	110
21 D	114	111	111	111	109	110	105	94	84	89	74	75	38	58	74	88	95	106	119	128	134	134	131	126	101
22	120	119	115	115	115	108	61	63	60	95	115	114	113	110	110	115	116	121	132	133	134	130	127	111	
23 D	124	120	119	116	115	89	61	67	100	113	117	119	119	115	112	103	95	104	114	122	134	140	149	166	114
24 D	138	119	148	36	37	18	18	77	89	98	115	114	108	114	119	114	109	113	120	17	125	130	131	128	97
25	125	119	114	110	92	60	78	58	82	113	116	115	113	114	117	117	113	109	107	108	114	119	126	130	107
26	130	129	123	114	109	108	107	94	103	112	113	113	110	108	112	109	103	98	104	120	129	134	131	125	114
27	126	123	122	102	65	82	76	51	80	104	110	110	113	113	112	111	110	107	112	118	120	127	130	129	106
28	124	111	118	120	119	113	101	110	112	113	115	117	117	116	116	111	112	114	113	117	118	122	120	117	115
29 Q	114	115	115	115	114	112	113	113	113	115	118	121	120	118	118	118	115	112	118	124	130	133	138	118	
30 D	132	132	124	101	79	107	45	54	9	96	121	117	101	80	85	93	100	104	116	127	158	161	153	149	106
31 D	127	131	132	127	98	99	88	106	116	122	123	123	111	111	106	100	96	98	105	114	119	124	132	148	115
Mean	124	121	120	113	101	98	92	95	98	109	113	114	110	110	110	107	108	107	111	113	123	127	129	129	112

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 22 Agincourt

 $H = 15,500 \gamma +$

August 1963

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	503	502	523	508	515	503	508	504	502	498	493	494	545	529	451	448	468	500	470	529	531	537	510	511	503
2	505	503	498	498	502	509	498	503	537	491	493	487	475	463	475	497	525	537	542	527	520	513	510	492	504
3	505	497	503	499	503	504	506	508	504	499	499	504	496	538	466	462	477	497	515	520	523	520	511	524	503
4	504	501	501	505	504	506	509	504	503	490	489	487	482	470	478	472	483	503	519	525	521	510	515	523	500
5	507	504	509	494	502	506	506	498	496	494	498	499	495	494	479	472	468	481	498	506	516	516	516	509	498
6	506	503	497	498	485	488	484	499	504	500	501	498	489	472	453	451	456	468	498	507	521	508	520	516	493
7	512	506	488	500	505	505	505	505	499	493	499	499	488	467	459	466	483	499	514	518	519	517	517	514	499
8	512	511	508	512	504	512	513	507	504	506	500	495	483	463	455	459	484	503	518	525	528	525	520	502	
9	520	523	510	505	491	511	513	501	500	508	503	505	492	477	462	453	467	484	499	512	520	528	528	530	502
10	520	522	522	518	518	522	519	517	514	516	516	517	514	507	495	478	472	487	495	506	517	523	527	525	511
11 Q	518	517	516	514	512	511	516	513	513	512	511	506	495	480	464	463	463	482	496	513	523	526	524	516	504
12 Q	514	514	511	511	515	510	510	510	511	514	506	497	490	483	479	489	500	511	517	519	517	513	513	511	507
13 Q	514	512	510	509	511	510	510	510	511	511	508	506	498	544	483	483	495	508	518	523	521	517	518	517	510
14 Q	513	516	513	512	512	512	513	513	511	508	510	505	497	490	486	496	511	521	526	526	531	528	525	523	512
15	522	525	526	525	524	526	526	525	525	520	521	518	504	490	484	490	496	511	522	527	537	524	500	513	516
16 Q	521	517	510	512	514	515	515	511	508	507	507	507	498	486	473	484	490	507	520	527	530	525	518	517	509
17	514	518	520	520	517	521	517	513	509	506	506	512	506	491	476	480	485	501	517	525	519	517	503	512	509
18 D	512	512	507	497	500	504	499	506	496	512	511	524	496	442	483	480	485	504	512	518	523	506	508	511	502
19 D	512	509	505	501	509	509	507	507	508	506	508	506	500	488	474	475	491	495	480	508	524	542	552	586	508
20 D	506	437	451	463	441	346	396	393	469	452	458	430	426	464	478	470	465	496	507	500	505	501	506	518	462
21 D	513	498	501	490	499	496	496	492	475	450	496	490	479	469	467	460	473	495	501	508	512	523	513	501	492
22	502	500	498	501	504	500	501	496	497	500	501	497	490	479	464	458	465	480	501	514	523	506	507	496	495
23	500	490	477	479	465	463	486	487	481	488	474	466	444	454	455	465	470	480	493	497	498	505	509	507	480
24	501	485	498	501	501	499	491	495	499	501	493	477	468	469	474	487	495	500	508	515	512	513	501	495	
25	513	507	504	499	500	502	501	502	501	497	505	506	496	484	474	474	477	485	497	517	523	517	518	501	500
26	507	512	508	511	510	499	507	504	504	507	507	502	493	480	470	486	497	506	502	518	518	522	517	504	
27	518	519	522	513	515	513	520	520	518	517	517	509	507	495	492	494	502	499	515	507	528	528	504	506	512
28 D	507	512	512	509	510	507	507	512	509	539	453	495	501	491	468	466	480	488	496	515	519	523	512	508	502
29	509	509	517	501	504	505	507	508	501	464	495	503	491	475	472	480	481	490	501	502	520	513	523	514	500
30	513	511	511	512	507	509	509	507	507	508	506	501	495	480	479	481	484	501	506	500	511	517	518	512	504
31	497	507	501	512	513	506	501	499	504	504	506	502	490	466	447	453	453	496	518	524	528	520	507	491	498
Mean	510	506	506	504	504	501	503	502	504	501	500	499	492	484	472	473	481	496	506	515	521	519	516	514	501

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 23 Agincourt

$D = 7^\circ \text{ W} + \dots'$

August 1963

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	17.2	22.2	19.3	19.3	22.2	24.0	18.5	22.4	22.0	19.8	18.5	18.0	16.2	17.2	23.0	29.3	31.3	32.2	31.1	30.4	25.8	25.4	23.5	24.0	23.0
2	21.5	18.7	21.8	22.1	21.5	22.1	28.7	22.1	25.4	25.3	20.6	17.1	16.1	17.6	21.5	29.5	31.8	32.3	30.7	28.7	25.5	24.5	23.4	19.7	23.7
3	20.2	19.6	20.3	18.6	23.3	22.8	25.2	23.3	21.3	20.4	19.6	16.6	16.7	16.5	18.8	24.9	27.9	28.6	28.8	27.7	26.4	25.4	24.6	21.7	22.5
4	18.7	19.1	21.3	20.4	23.2	23.2	21.1	23.3	22.1	20.6	21.9	19.0	18.4	23.2	22.6	26.3	28.7	29.7	30.3	30.5	30.0	27.9	25.3	23.7	23.8
5	17.0	19.4	20.0	18.1	22.9	22.9	21.2	21.0	23.1	26.2	19.7	17.0	16.8	15.8	16.8	21.3	25.2	28.4	29.6	29.9	29.4	27.8	26.0	24.2	22.5
6	23.1	22.7	17.2	16.8	16.9	17.6	28.4	27.3	23.3	23.1	18.3	17.3	15.4	15.1	18.4	25.2	28.6	31.5	32.4	32.3	29.3	25.5	22.0	21.3	22.9
7	18.0	17.5	18.1	25.9	16.3	23.0	24.5	23.9	22.8	25.3	21.1	16.3	14.6	17.7	20.4	24.8	27.6	29.3	29.3	28.0	25.5	23.8	23.0	22.5	22.5
8	21.3	19.5	21.7	18.5	20.3	27.1	22.9	21.1	22.7	21.3	20.0	26.0	24.8	13.4	17.3	25.2	31.3	33.4	33.4	31.2	27.3	23.5	20.9	9.0	23.1
9	21.5	20.2	8.3	19.2	12.5	9.7	22.3	22.8	21.7	18.0	13.9	11.6	11.5	14.6	18.6	23.0	27.0	30.7	32.1	31.1	29.1	26.8	24.2	23.0	20.6
10	23.3	23.9	23.0	22.8	22.3	21.7	21.2	20.7	20.1	19.7	18.6	17.0	17.3	16.9	17.8	24.4	27.5	28.7	29.1	27.8	24.9	23.0	21.7	21.7	22.3
11 Q	22.8	22.8	23.0	22.9	23.4	23.1	21.5	20.7	19.7	18.7	17.0	14.8	13.6	14.6	17.5	22.8	27.0	31.2	31.0	29.1	26.3	23.3	21.0	21.7	22.0
12 Q	22.9	22.7	21.6	21.6	22.0	21.6	21.9	22.2	20.6	19.4	18.0	16.9	17.4	18.0	19.7	25.6	29.0	31.1	30.0	28.0	25.8	23.8	23.0	22.7	22.7
13 Q	22.8	23.5	23.0	22.7	22.7	22.2	21.6	21.1	20.6	19.6	18.5	17.2	17.0	18.5	21.1	25.8	29.0	29.3	28.0	26.9	25.8	24.8	23.8	23.0	22.8
14 Q	23.7	21.3	22.6	23.1	22.6	22.2	21.5	21.3	20.5	20.3	18.4	17.3	16.3	17.6	20.4	24.3	27.0	28.1	28.1	27.3	25.7	23.4	21.8	21.7	22.4
15	22.1	22.6	22.6	22.1	21.8	21.7	21.3	20.5	19.7	18.9	17.3	15.5	12.8	15.8	20.7	26.8	31.0	33.1	31.8	29.7	28.4	26.6	25.4	22.8	22.9
16 Q	22.5	23.4	21.2	23.6	22.7	21.8	21.2	21.0	20.6	20.2	18.8	16.0	14.9	16.6	20.9	25.9	29.1	30.7	29.4	28.1	26.1	23.6	22.5	23.1	22.7
17	22.5	22.7	23.6	23.6	22.3	23.8	24.4	21.8	20.2	18.1	16.0	13.6	14.6	15.7	20.2	26.6	29.0	29.4	28.1	26.0	23.1	21.7	22.1	22.4	
18 D	22.1	20.4	18.1	17.8	19.4	23.0	18.1	21.4	26.1	15.4	13.9	15.5	14.6	27.5	23.3	29.6	20.1	31.1	30.1	28.2	24.6	24.1	21.7	20.8	21.9
19 D	21.6	21.3	21.7	18.8	19.6	20.5	22.5	22.5	19.5	18.2	16.2	15.3	16.6	19.2	25.4	28.8	29.0	32.2	30.9	31.4	30.6	27.1	16.2	22.8	
20 D	16.6	14.4	5.7	7.3	-5.3	12.5	20.9	30.4	26.7	28.3	25.6	27.8	27.2	24.6	21.4	25.6	28.3	28.4	28.8	27.8	25.3	22.8	22.5	20.6	21.0
21 D	11.3	17.8	19.2	18.9	22.5	18.5	25.1	30.9	26.2	25.6	17.2	26.2	17.0	19.4	22.5	25.2	28.8	30.4	29.5	28.3	25.6	23.3	22.3	22.4	23.1
22	22.5	22.6	20.5	21.2	22.3	22.3	26.7	28.0	29.3	21.3	18.3	17.2	16.5	18.5	22.3	25.9	28.5	29.6	29.8	28.4	26.7	25.6	23.8	19.7	23.6
23	19.7	19.2	17.9	20.2	17.0	21.2	19.7	19.9	24.4	25.1	21.8	21.2	23.6	24.6	25.1	24.6	28.0	30.9	30.0	29.0	26.9	24.8	22.8	21.3	23.3
24	18.1	10.0	18.6	22.4	22.4	22.8	22.2	24.7	26.8	27.0	23.1	20.0	17.9	18.2	22.9	27.6	28.9	30.3	29.9	28.7	27.0	25.5	24.2	23.1	23.4
25	23.2	22.9	22.4	21.1	23.7	19.5	21.4	21.5	22.1	23.4	19.2	16.1	14.0	15.1	17.2	22.1	26.2	28.9	29.7	29.4	27.9	25.5	23.4	21.5	22.4
26	18.3	19.2	23.0	21.0	21.2	21.8	19.7	19.3	20.5	20.1	19.2	17.3	16.3	16.3	20.0	24.7	26.8	28.8	29.9	28.8	26.3	25.2	24.7	24.7	22.2
27	24.3	23.0	23.5	22.8	22.1	22.1	21.6	20.7	20.7	20.1	20.1	20.0	20.1	20.4	23.5	30.4	33.0	33.4	33.3	34.2	29.9	26.9	26.7	21.8	24.8
28 D	15.7	24.0	23.8	22.7	18.6	22.0	24.5	24.8	21.6	28.6	32.4	29.9	24.8	19.7	21.5	25.6	28.5	29.2	30.0	28.2	25.0	25.0	23.8	22.1	24.7
29	25.0	22.6	18.9	23.6	23.4	24.1	23.2	20.8	22.4	28.6	28.1	16.3	15.3	16.3	23.0	24.7	26.8	28.2	28.2	28.1	27.0	26.2	25.1	25.7	23.8
30	22.8	24.0	23.9	20.6	21.3	22.5	22.0	21.7	21.5	20.9	19.8	20.5	18.4	20.1	22.9	24.8	29.3	29.4	29.1	25.7	24.5	22.9	23.6	23.0	23.1
31	18.5	16.8	21.1	24.8	23.1	25.0	25.5	26.9	20.0	16.6	16.7	16.2	15.8	17.6	22.2	30.5	30.2	30.4	28.2	23.2	22.5	22.7	18.5	26.0	22.5
Mean	20.7	20.3	20.2	20.8	20.3	21.5	22.6	22.9	22.5	21.8	19.7	18.3	17.1	18.0	20.7	25.8	28.4	30.2	30.1	28.8	26.7	24.9	23.3	21.8	22.8

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 24 Agincourt

z = 56,000 γ +

August 1963

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	141	129	154	111	80	77	100	116	117	116	116	115	111	113	117	122	113	113	115	119	128	142	132	132	118
2	122	120	123	121	114	74	47	80	95	106	111	118	116	122	121	111	112	118	125	130	134	136	136	136	114
3	131	127	110	110	95	96	106	110	115	118	116	115	111	106	105	109	107	110	116	121	127	133	129	134	115
4	123	124	124	117	117	120	110	97	105	115	115	108	115	107	105	105	106	109	115	126	136	141	139	137	117
5	135	125	115	104	93	99	110	110	109	105	110	110	113	115	115	115	109	109	115	115	127	138	140	135	116
6	130	126	125	115	86	75	81	95	112	122	124	124	121	120	119	114	109	112	114	117	124	129	130	127	115
7	125	115	117	91	94	104	107	114	113	110	114	116	117	118	115	104	99	101	104	112	116	119	120	120	111
8	120	121	121	114	110	100	101	110	113	111	114	114	112	113	110	125	101	107	113	118	120	123	121	118	114
9	113	114	113	111	88	78	63	79	98	112	116	114	109	105	106	104	108	110	115	120	125	122	121	119	106
10	114	114	113	113	113	113	113	113	114	116	119	118	117	114	112	113	118	120	123	121	120	119	120	118	116
11 Q	116	116	113	114	113	114	114	113	113	113	114	113	112	107	111	111	112	115	118	120	122	125	124	114	115
12 Q	112	113	114	113	113	113	113	111	113	113	114	114	113	118	119	109	107	108	113	120	120	119	119	115	114
13 Q	114	114	113	115	114	114	113	113	113	113	114	114	113	115	113	109	102	98	103	109	115	116	116	116	112
14 Q	114	114	113	113	114	113	113	113	113	115	115	115	115	115	112	114	113	113	114	118	121	120	119	114	115
15	107	107	107	107	107	107	107	107	107	107	107	112	108	105	93	86	86	92	97	108	120	128	124	115	106
16 Q	111	109	109	109	107	107	107	107	108	108	108	111	107	107	103	102	101	107	113	118	121	120	117	116	110
17	114	116	116	113	113	107	105	107	109	108	108	110	107	108	104	97	97	108	108	112	123	128	127	120	111
18 D	116	116	107	107	105	82	93	106	62	40	72	91	89	77	69	87	98	107	113	121	124	128	130	124	99
19 D	119	119	118	112	109	107	112	113	113	114	119	119	118	113	110	108	117	139	164	178	204	277	262	137	
20 D	264	268	25	80	15	-97	-54	-67	65	86	95	73	82	103	116	112	117	128	129	127	133	137	134	139	92
21 D	137	129	94	86	74	96	75	18	17	19	95	112	116	118	118	112	119	121	127	128	129	135	135	134	102
22	126	122	121	121	117	116	106	87	87	111	112	113	114	116	113	111	111	114	120	124	131	129	134	141	117
23	138	143	112	61	33	4	-6	78	100	101	91	85	101	105	101	106	115	122	124	129	128	129	129	129	98
24	132	123	123	124	123	124	122	118	107	102	108	116	112	110	110	98	96	106	117	122	127	131	129	125	117
25	123	123	123	122	116	116	117	121	122	121	123	121	119	116	114	112	112	117	123	123	122	131	128	120	
26	129	117	122	118	98	79	96	112	118	119	119	117	117	108	106	108	107	109	111	111	112	113	113	112	
27	112	111	112	113	113	110	109	107	106	107	106	107	105	101	95	97	98	103	116	118	139	143	134	133	112
28 D	125	118	117	119	109	101	194	96	101	84	50	51	61	78	83	91	99	106	121	136	137	135	125	103	
29	116	113	109	110	111	110	112	107	94	66	64	88	99	102	99	101	105	108	110	114	116	118	113	104	
30	111	112	111	106	107	105	103	105	108	108	106	104	107	104	103	101	105	111	113	118	115	113	114	120	109
31	122	114	110	106	108	100	84	86	98	101	110	115	112	107	108	110	116	129	124	119	118	120	124	133	111
Mean	126	124	113	109	100	92	93	96	102	103	107	108	109	109	107	106	106	111	116	121	126	130	131	129	112

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 25 Agincourt

 $H = 15,500 \gamma +$

September 1963

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	496	501	504	515	509	512	511	507	500	478	494	502	491	472	475	474	478	496	509	518	519	508	504	500	499
2 Q	506	504	509	509	512	509	507	507	506	506	506	501	495	479	469	471	483	473	512	512	520	517	507	522	502
3	517	507	501	511	513	509	511	508	506	505	501	501	490	479	461	477	493	500	507	512	512	514	501	506	502
4 Q	507	512	512	515	512	512	512	508	507	504	504	499	481	466	467	479	491	507	512	528	524	514	504	504	504
5	506	508	506	507	507	507	507	507	506	508	506	507	495	480	464	473	479	496	515	512	512	517	509	502	
6 Q	496	501	512	512	513	515	512	511	507	506	501	501	492	477	460	453	464	483	505	514	523	518	512	513	500
7 Q	518	517	517	517	517	515	512	512	512	512	507	501	490	475	475	485	496	508	519	523	524	512	519	508	
8	520	518	515	512	512	497	500	511	512	512	509	493	488	497	479	466	466	474	485	491	506	517	520	522	501
9	522	520	507	497	469	507	512	508	507	506	512	508	497	464	473	485	484	486	495	507	515	522	520	519	502
10	517	515	512	511	507	512	511	512	512	513	512	504	495	491	490	480	480	496	506	512	523	534	511	507	507
11	506	513	515	508	507	511	507	509	507	504	511	517	512	507	496	490	481	480	496	491	517	501	512	511	504
12	512	517	500	501	508	512	506	496	491	512	509	507	495	485	480	485	493	505	512	518	519	513	507	508	504
13 Q	512	509	512	511	508	508	511	511	511	511	509	499	484	474	480	491	506	515	534	539	534	519	511	509	
14 D	495	491	480	485	507	504	420	294	265	269	375	439	391	417	432	399	420	464	472	500	506	508	505	488	439
15	496	512	501	497	493	453	497	488	494	488	464	450	433	469	464	448	459	481	490	517	507	491	483	482	
16	491	487	491	491	496	483	463	490	477	468	461	447	474	475	455	426	461	480	504	490	500	504	509	481	479
17	483	506	501	491	475	492	477	474	425	402	334	391	474	477	459	442	459	479	464	496	507	518	504	505	468
18	498	499	503	496	497	497	497	498	495	495	491	468	474	477	461	451	439	464	486	499	506	512	509	501	488
19	501	493	502	501	507	507	492	481	487	482	470	481	481	484	456	442	453	462	479	486	494	507	498	507	486
20	502	493	496	496	496	498	498	495	495	508	515	502	475	440	441	437	489	506	513	513	508	502	497	492	
21	492	497	497	497	503	496	494	499	493	493	497	501	492	484	446	426	454	448	467	507	507	496	518	519	489
22 D	524	526	524	497	351	201	171	33	348	487	475	469	463	458	442	459	484	519	578	606	875	658	645	467	
23 D	234	489	337	211	310	330	472	459	462	455	463	479	477	470	470	465	460	486	501	502	500	492	481	481	437
24	481	481	482	482	486	486	484	486	489	489	487	481	480	481	470	458	468	481	481	475	491	500	497	499	483
25 D	481	524	416	448	470	459	440	389	381	400	459	466	464	464	451	432	439	454	481	495	489	497	491	493	458
26	499	499	499	499	495	456	480	484	486	487	487	482	471	465	470	466	459	461	490	502	508	503	486	474	484
27	486	495	505	502	494	496	499	500	500	497	502	501	492	481	473	466	478	492	502	519	519	519	510	479	496
28 D	472	492	527	459	427	443	427	461	470	489	495	486	472	464	465	440	476	486	491	502	500	486	497	498	476
29	497	510	495	494	494	492	492	484	485	493	481	486	482	491	481	481	482	491	497	492	497	486	500	490	
30	501	509	488	498	500	498	494	500	500	503	495	506	499	493	487	481	487	496	503	510	514	511	508	509	500
31																									
Mean	492	505	496	489	486	481	480	471	478	483	485	487	483	476	467	460	468	481	496	507	514	523	510	507	489

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 26 Agincourt

 $D = 7^\circ \text{ W} + \dots'$

September 1963

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	19.9	22.8	21.1	23.1	24.3	24.3	23.8	20.5	20.9	28.5	22.3	16.7	15.4	19.3	22.4	28.1	31.4	32.4	30.3	28.4	25.0	22.3	22.2	22.3	23.6		
2 Q	21.9	22.0	23.9	23.9	24.2	23.9	23.4	22.3	21.8	20.9	20.0	18.6	18.2	19.4	23.7	27.7	31.5	31.5	31.1	28.6	25.5	24.0	21.8	23.1	23.9		
3	24.8	23.1	22.3	23.2	23.6	20.5	21.8	21.5	20.0	19.1	20.0	16.8	16.3	18.9	24.2	28.7	31.0	32.5	32.1	30.4	27.5	25.0	23.1	22.4	23.7		
4 Q	23.0	22.7	22.4	22.1	23.2	23.0	22.4	22.4	21.7	20.6	18.5	17.0	18.8	23.3	28.2	32.1	32.9	31.6	29.7	27.2	25.9	25.3	25.3	26.1	24.4		
5	21.2	18.3	23.8	23.5	23.6	23.5	23.1	22.2	21.7	22.5	20.4	17.5	15.2	14.9	18.0	22.0	27.5	30.4	29.8	28.3	25.9	23.6	23.1	21.0	22.6		
6 Q	22.2	23.3	23.5	23.3	23.3	22.4	22.0	21.0	21.4	22.7	21.1	19.3	17.2	17.1	20.4	26.2	30.9	31.7	30.5	28.1	25.4	23.5	21.8	21.8	23.3		
7 Q	22.9	23.2	22.6	23.4	23.3	23.2	23.8	22.7	22.1	21.3	20.3	18.6	17.0	18.1	21.6	25.5	28.4	29.7	29.2	28.0	26.5	25.0	23.2	22.6	23.4		
8	22.9	21.5	19.1	17.6	21.5	27.4	20.9	20.5	21.1	20.3	18.7	18.7	24.2	19.7	21.2	25.7	29.7	31.8	31.3	30.5	27.8	25.7	23.6	23.4	23.5		
9	23.2	23.8	20.4	15.1	25.6	26.1	21.2	21.3	19.8	21.6	21.2	18.5	18.2	22.7	26.6	25.6	27.9	29.6	29.4	28.3	26.6	24.8	24.6	24.6	23.6		
10	24.3	24.2	23.3	20.1	23.0	23.0	22.7	21.6	25.1	21.8	20.2	19.3	19.5	19.5	22.6	25.1	27.5	28.2	28.3	27.7	26.5	25.8	26.2	24.8	23.8		
11	20.6	17.7	24.0	20.4	23.5	22.7	23.5	22.2	20.6	24.6	21.6	16.4	20.6	21.4	22.8	25.4	28.8	32.7	29.3	27.7	27.5	26.6	25.1	20.5	23.8		
12	23.0	10.1	19.5	22.2	23.7	25.8	24.6	19.3	21.9	20.6	17.7	17.4	16.4	19.6	24.0	26.6	28.8	29.4	29.4	27.7	25.4	23.5	23.0	23.7	22.6		
13 Q	22.4	22.7	23.6	23.6	23.5	23.3	23.5	22.4	21.4	20.4	20.6	18.6	17.7	18.8	22.2	26.1	28.1	29.8	27.9	25.4	24.0	23.5	17.0	23.2			
14 D	16.6	21.4	21.4	17.6	22.2	28.2	21.6	12.2	17.2	9.3	15.9	19.5	34.0	32.1	34.0	38.2	42.8	37.2	34.8	27.7	23.5	18.2	17.2	23.5	24.4		
15	22.0	15.9	23.7	25.4	28.8	35.3	27.9	21.7	20.4	20.1	21.4	22.6	26.2	31.5	28.8	30.6	28.8	30.8	31.9	30.6	26.9	24.8	22.2	11.1	25.4		
16	24.6	21.9	24.6	27.2	29.0	23.7	33.4	26.1	22.7	26.4	24.8	33.6	27.1	22.2	26.1	30.2	34.4	32.9	30.4	26.4	25.8	23.2	22.2	16.2	26.5		
17	15.7	15.1	20.6	25.8	26.4	22.9	29.0	29.6	35.0	37.7	51.8	37.2	19.9	20.5	24.3	28.8	31.5	30.3	28.8	27.2	24.3	22.4	22.2	20.6	27.0		
18	22.4	22.7	22.7	23.0	24.6	24.3	23.9	23.5	23.5	21.4	19.5	23.5	21.4	22.2	23.3	29.3	30.6	34.2	31.9	29.8	26.4	23.7	22.4	21.6	24.7		
19	15.3	23.3	24.4	22.4	23.0	23.5	20.4	25.8	23.0	19.3	31.1	30.0	26.4	24.8	29.8	31.0	35.0	35.9	34.0	31.7	27.2	24.6	23.4	22.7	26.2		
20	22.3	21.1	21.3	23.4	24.7	28.7	21.8	20.5	20.6	21.8	22.9	16.9	17.9	19.2	24.7	31.8	33.9	36.0	32.3	30.7	29.5	29.2	27.6	27.4	25.3		
21	24.2	22.6	23.6	25.3	22.7	21.5	21.8	21.5	19.6	21.1	22.3	20.3	19.0	19.4	17.1	27.4	26.8	29.1	34.1	29.5	27.4	28.7	35.2	36.2	24.8		
22 D	26.5	26.3	28.7	16.3	26.5	38.1	23.1	21.1	20.1	12.1	19.0	20.0	20.8	23.9	24.5	26.5	26.0	29.9	29.5	30.7	41.0	8.1	14.1	24.1	24.0		
23 D	33.1	36.1	0.1	31.1	37.1	11.1	16.1	21.8	25.3	25.7	27.4	23.9	23.4	21.4	21.3	24.5	27.4	29.2	28.1	27.4	25.5	25.0	24.7	25.3	24.6		
24	25.2	25.2	24.9	24.4	24.6	24.6	24.0	23.3	22.5	23.3	22.8	22.0	22.0	22.0	22.2	23.5	27.3	26.2	27.0	28.8	28.8	28.9	17.5	10.5	23.8		
25 D	18.5	15.4	16.8	25.4	21.2	20.2	30.4	31.7	32.5	26.0	21.0	20.2	21.2	20.7	21.0	25.6	25.4	26.2	26.4	25.6	23.3	24.4	25.7	25.2	23.8		
26	22.0	24.4	25.2	22.8	18.3	20.7	19.6	20.2	20.4	21.2	22.0	21.2	21.2	23.3	23.6	23.8	25.9	26.4	27.7	26.4	25.2	24.1	24.6	21.2	23.0		
27	23.7	24.0	23.5	26.8	23.3	23.3	23.9	23.3	23.8	25.8	24.0	22.2	21.4	21.4	22.8	25.6	27.3	28.3	28.3	27.7	33.4	33.6	29.4	22.2	25.4		
28 D	26.2	24.4	23.9	22.2	23.5	23.3	17.8	12.0	20.3	23.5	22.8	23.5	27.5	29.1	30.6	28.8	26.4	28.6	25.4	24.9	19.6	24.1	15.7	20.4	23.5		
29	24.4	21.2	23.1	26.8	25.4	22.8	23.1	23.5	28.3	23.8	27.5	25.6	24.9	23.5	23.3	23.8	25.2	27.0	27.3	27.3	27.5	26.3	25.4	22.2	25.0		
30	24.1	18.0	18.0	25.2	24.6	22.2	23.8	26.4	23.5	22.0	24.1	23.1	22.2	22.2	22.9	25.0	25.6	27.0	27.3	26.7	25.4	24.6	24.6	25.2	23.9		
31																											
Mean	22.6	21.8	21.9	23.0	24.4	24.1	23.8	22.1	22.6	22.2	22.8	21.3	21.0	21.7	23.9	27.3	29.5	30.6	29.8	28.3	26.7	24.4	23.4	22.3	24.2		

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 27 Agincourt

$Z = 56,000 \gamma +$

September 1963

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	128	125	121	110	117	114	113	113	107	87	99	109	110	113	116	112	111	113	122	125	125	124	120	120	115
2 Q	122	120	120	120	115	115	115	116	116	116	118	117	117	115	114	114	110	114	121	123	127	129	125	122	118
3	122	122	122	121	117	111	107	110	117	115	116	116	115	111	109	99	101	109	116	123	125	127	123	120	116
4 Q	118	117	116	114	113	114	116	117	118	117	117	116	117	115	110	108	109	112	118	122	126	127	126	130	117
5	129	121	120	120	120	117	118	117	118	116	115	119	116	111	107	100	106	114	120	124	123	122	122	127	118
6 Q	126	123	119	117	117	113	111	113	113	114	114	116	115	115	113	117	118	121	123	126	126	121	121	117	118
7 Q	115	114	115	115	113	112	110	112	115	115	115	115	115	114	109	98	105	115	117	125	128	128	123	121	115
8	118	117	121	115	95	100	113	121	115	113	112	117	116	116	121	115	117	117	121	124	125	125	122	117	116
9	117	117	121	117	94	99	114	120	113	116	113	116	116	115	117	115	117	118	121	124	126	123	121	118	116
10	119	119	121	122	123	121	117	113	106	112	115	116	117	116	116	115	114	116	120	121	117	123	121	121	118
11	121	117	118	120	120	119	116	116	110	95	84	94	106	106	107	104	105	110	120	132	138	130	130	128	114
12	125	113	101	116	107	90	89	101	111	111	111	114	110	107	108	104	106	110	116	122	123	122	120	120	111
13 Q	116	113	111	112	112	112	112	113	113	113	113	114	112	108	105	105	103	106	108	112	114	113	115	121	112
14 D	121	124	115	110	35	66	-9	-114	-125	-63	5	51	0	19	67	101	122	145	164	178	153	160	146	131	71
15	125	112	107	118	100	29	68	86	112	109	106	103	93	94	102	108	119	138	150	161	164	165	182	176	118
16	139	135	133	85	84	95	66	65	84	92	81	77	61	93	102	108	122	122	133	158	140	138	145	156	109
17	150	119	114	67	65	82	16	-17	-8	-89	-79	-8	55	90	108	113	120	128	148	151	133	129	122	123	76
18	125	119	107	110	118	117	116	116	111	122	112	102	98	102	108	113	123	131	129	127	121	119	119	122	116
19	118	117	117	115	86	92	79	71	74	69	46	52	69	84	92	100	105	116	125	130	132	128	120	119	98
20	119	122	120	118	112	94	95	107	106	102	105	102	108	110	111	116	113	116	120	123	128	137	147	114	
21	147	138	133	121	95	117	118	117	108	112	116	117	115	118	117	112	112	117	142	133	133	125	125	117	121
22 D	120	126	163	196	31	-121	-70	-114	58	127	119	109	105	112	123	127	126	130	130	152	203	389	317	210	120
23 D	171	246	-85	-125	60	-17	131	143	114	106	112	122	121	119	122	123	127	128	124	119	123	127	129	102	
24	127	129	129	129	131	130	130	129	129	129	127	125	121	131	128	125	128	133	137	148	157	179	208	283	143
25 D	231	121	2	96	137	98	65	15	32	68	106	130	124	129	126	124	133	142	140	139	144	144	139	138	113
26	135	131	129	126	65	45	99	122	126	124	123	121	125	127	126	125	127	139	136	129	131	139	144	146	122
27	136	129	111	100	115	121	124	120	115	113	115	119	119	120	120	119	118	121	124	129	141	146	251	250	132
28 D	203	145	142	88	76	36	73	97	106	117	120	119	113	121	132	132	125	134	148	159	151	146	130	123	
29	132	125	123	108	115	126	126	117	113	111	112	109	116	122	119	117	117	123	131	138	135	140	141	137	123
30	134	116	116	128	128	124	118	110	119	117	123	125	125	127	124	124	127	127	128	129	127	126	126	124	
31																									
Mean	134	126	110	107	101	89	93	88	95	97	100	105	105	109	113	113	116	122	128	133	165	141	143	141	114

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 28 Agincourt

H = 15,500 $\gamma +$

October 1963

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	509	508	506	502	495	502	501	503	503	508	508	503	498	492	485	486	492	495	501	505	506	503	503	506	501
2 Q	507	507	507	507	507	507	508	509	514	514	514	510	503	498	483	487	493	507	517	520	522	519	513	513	508
3 Q	508	508	503	503	503	503	504	508	511	514	512	505	495	482	479	485	493	503	510	513	514	514	517	504	504
4	513	509	509	501	493	498	499	500	508	514	520	514	509	498	479	471	483	498	508	510	515	516	515	515	504
5	514	519	515	515	515	519	522	522	525	511	524	525	514	503	490	476	477	483	494	503	518	515	515	521	510
6	520	514	508	503	509	505	512	515	519	515	517	516	511	503	492	477	472	476	494	511	517	519	520	520	507
7	519	520	520	515	515	515	515	521	521	520	522	522	520	513	502	489	477	487	497	508	519	519	494	503	511
8	510	503	514	511	493	490	499	503	508	503	507	509	503	498	488	478	466	482	494	501	509	508	515	519	500
9	519	515	510	505	504	509	513	513	514	514	514	515	510	503	497	496	493	497	507	514	507	513	509	509	509
10	513	515	514	516	516	520	521	521	520	522	525	527	521	516	505	497	489	491	494	503	501	501	503	509	511
11	507	509	509	509	518	511	504	509	517	523	520	524	531	510	489	472	462	487	490	504	509	517	499	498	505
12 D	490	496	492	481	496	488	509	503	493	503	510	509	487	459	492	468	444	438	475	499	472	490	499	508	488
13	508	503	504	497	507	502	499	506	497	500	513	515	498	497	481	474	481	490	500	500	513	498	475	495	498
14 D	477	476	482	489	497	497	475	492	467	476	514	483	471	471	463	445	438	454	477	498	503	503	506	506	482
15	502	497	505	501	497	489	492	505	508	512	512	506	504	498	486	485	485	492	494	491	499	502	494	503	498
16	501	501	506	507	501	505	502	506	504	501	507	512	500	492	480	474	469	473	485	485	504	511	506	506	498
17	507	512	512	508	507	507	496	502	507	510	511	500	490	483	479	475	483	490	495	501	506	507	507	500	500
18	502	501	504	504	498	501	499	502	501	507	512	513	511	500	484	472	475	485	491	492	502	502	502	505	498
19	506	506	503	496	490	496	495	501	505	508	512	513	512	500	486	474	471	474	486	494	500	502	506	504	498
20	497	501	496	496	500	500	503	507	507	517	525	528	515	497	507	495	485	474	483	500	508	506	483	491	501
21	501	501	493	490	491	500	506	509	512	513	524	524	518	501	486	476	478	482	495	506	511	513	518	503	503
22 Q	518	515	513	512	514	517	519	523	524	526	523	524	523	513	500	492	490	492	506	517	523	529	533	530	516
23	527	524	523	524	524	523	524	525	525	526	525	524	519	509	500	487	483	490	501	517	523	527	529	525	517
24 D	539	504	538	560	424	461	358	409	275	285	376	485	495	470	453	452	464	472	495	496	500	485	475	480	456
25	490	501	489	486	488	488	492	491	496	498	496	495	488	483	474	468	465	468	475	492	496	499	505	488	488
26	504	494	501	496	499	498	500	501	501	502	501	500	497	486	482	469	469	469	483	486	500	508	512	513	495
27 Q	511	508	508	508	506	504	508	511	511	513	514	513	509	502	492	485	485	491	494	502	508	512	512	513	505
28	508	508	508	508	508	507	508	508	509	510	509	513	508	501	492	485	484	481	484	485	502	507	501	493	501
29 D	488	496	487	487	484	485	491	494	498	503	511	512	506	492	482	485	401	417	439	518	702	704	622	447	506
30 D	416	357	344	466	455	482	497	488	492	497	498	502	498	487	474	465	464	464	475	485	491	497	498	498	470
31	500	499	499	499	502	501	501	503	502	511	507	503	497	489	486	490	488	493	497	502	505	507	508	507	500
Mean	504	501	501	503	499	501	500	503	500	502	509	512	506	496	486	478	474	480	491	501	513	514	509	506	500

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 29 Agincourt

$D = 7^\circ \text{ W} + \dots'$

October 1963

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1 Q	24.6	24.6	24.4	21.4	22.0	23.1	22.9	22.8	23.5	23.3	22.8	22.2	22.0	22.2	23.5	25.6	27.4	28.8	29.1	27.3	25.2	24.6	24.8	24.8	24.3
2 Q	24.6	24.6	24.7	24.5	24.4	24.1	23.8	23.5	22.5	22.0	21.4	21.2	21.0	21.7	22.7	25.4	28.3	29.4	27.5	26.2	24.6	23.8	24.1	24.9	24.2
3 Q	24.4	24.1	24.4	25.0	23.6	23.1	23.3	22.5	25.6	21.0	21.0	20.9	19.9	19.9	21.4	24.8	25.9	27.9	28.4	27.5	25.4	24.5	23.6	23.6	23.8
4	24.1	24.1	19.3	22.1	23.1	22.4	23.5	23.9	23.1	22.2	19.9	20.2	18.3	18.2	21.1	26.6	29.8	29.8	28.4	28.0	27.4	26.0	24.9	24.5	23.8
5	24.2	24.5	24.3	23.7	23.1	22.8	22.1	22.5	22.2	25.7	25.3	21.1	19.8	19.4	20.3	23.0	26.9	29.9	30.5	30.3	28.2	26.8	25.4	24.2	24.4
6	23.8	23.9	22.6	22.2	26.3	21.3	23.4	23.4	23.0	22.6	22.3	22.1	20.5	19.8	20.1	21.4	24.9	29.5	29.7	29.0	27.8	26.8	25.8	25.0	24.1
7	23.9	23.6	23.4	23.3	22.3	22.3	22.6	23.2	22.3	21.6	21.5	21.3	20.7	19.4	19.2	19.7	25.3	27.6	28.1	29.1	29.8	30.1	30.2	25.3	24.0
8	24.5	23.2	19.2	21.5	18.1	19.2	21.3	23.6	23.4	21.3	25.3	21.5	21.1	20.8	18.4	20.8	24.2	26.3	28.1	28.2	28.1	26.5	25.5	24.7	23.1
9	24.0	23.9	23.2	23.5	23.7	24.8	23.3	23.3	22.8	22.6	22.4	22.2	20.6	20.4	19.5	20.9	23.8	26.6	28.1	28.8	27.6	27.3	23.9	23.5	23.8
10	25.4	23.8	23.3	23.5	23.5	23.6	23.0	22.4	23.7	24.9	23.7	22.4	23.5	23.7	21.7	23.0	24.3	27.2	29.3	29.0	27.3	26.4	26.6	25.6	24.6
11	24.6	24.3	24.1	23.5	23.8	23.2	20.4	29.6	20.1	19.3	24.8	34.0	30.4	25.1	20.4	22.2	27.5	28.0	28.5	29.2	29.8	28.0	27.2	23.5	25.5
12 D	22.6	21.2	20.2	18.6	20.4	22.3	27.3	22.6	23.7	26.5	27.7	30.4	31.1	41.0	32.1	26.1	27.0	30.0	28.1	27.7	28.8	25.6	25.4	24.0	26.3
13	23.9	23.5	19.9	18.2	31.1	29.0	26.4	22.1	22.9	26.4	24.0	23.5	24.3	21.4	22.8	24.1	26.0	28.0	28.8	28.1	25.9	23.3	24.7	17.2	24.4
14 D	14.0	19.3	24.2	25.4	19.8	24.8	24.7	22.4	27.7	30.8	25.7	27.0	31.4	27.0	25.9	25.2	30.8	31.7	27.9	24.6	24.3	24.6	24.7	23.8	25.3
15	23.4	15.7	19.9	22.5	26.5	21.3	26.3	22.8	23.4	22.4	24.5	27.8	22.8	22.3	20.8	20.8	23.6	26.3	28.3	26.7	25.5	25.7	19.6	23.8	23.5
16	18.6	21.7	21.4	23.8	24.1	24.5	25.5	25.5	21.5	20.7	22.8	23.4	25.3	25.5	25.1	27.8	29.7	28.4	29.9	30.9	23.8	25.7	25.2	24.4	24.8
17	23.4	24.1	24.5	23.8	21.7	20.7	21.5	22.5	22.8	23.7	23.8	23.6	23.1	21.5	21.0	22.5	25.5	27.7	27.8	27.9	27.3	26.3	25.2	24.7	24.0
18	25.3	23.9	23.6	22.0	22.5	23.3	23.6	22.7	22.8	23.4	24.7	26.4	24.4	21.5	21.4	23.6	25.2	26.0	28.2	29.5	28.2	26.7	26.1	25.2	24.6
19	24.1	23.8	23.9	25.8	20.5	20.4	18.9	21.5	20.7	22.3	23.5	24.4	23.3	21.6	22.2	24.3	25.9	28.8	29.0	28.5	27.7	26.9	25.4	24.3	24.1
20	24.6	23.7	22.3	22.7	23.3	20.7	21.6	22.4	22.2	21.4	20.2	23.5	23.7	26.4	25.2	21.2	24.0	28.8	30.6	29.8	30.3	30.0	27.3	24.4	24.6
21	23.5	22.4	20.9	20.9	23.5	22.2	21.1	21.6	22.4	24.8	26.4	22.9	21.3	20.4	19.5	22.4	26.1	28.3	29.2	28.5	27.2	25.8	24.7	24.6	23.8
22 Q	24.3	24.6	23.7	22.7	23.8	24.0	24.1	24.0	23.5	23.5	23.3	22.7	21.6	19.5	18.5	20.1	23.5	26.2	27.7	27.7	26.9	25.8	24.6	23.7	23.8
23	23.5	23.3	23.4	23.4	23.5	23.7	23.7	23.6	23.5	23.4	23.0	21.2	19.9	19.3	21.4	24.6	28.5	28.3	28.8	28.2	28.5	28.0	28.8	24.7	
24 D	25.9	26.9	21.4	7.5	24.4	22.4	43.3	17.4	18.9	24.8	33.9	28.5	17.2	18.8	22.2	25.6	30.0	31.9	30.6	30.2	28.2	31.1	24.6	24.3	25.4
25	11.1	15.7	21.6	22.4	18.2	17.0	21.9	23.5	24.8	24.6	23.6	22.7	20.5	19.8	18.4	21.0	23.5	26.0	27.7	28.3	28.4	27.9	26.9	25.5	22.5
26	25.2	24.6	15.9	22.3	24.3	24.4	24.8	24.9	24.0	24.0	24.6	25.4	22.6	20.9	20.6	22.4	25.6	28.8	29.4	28.5	26.9	25.7	25.5	23.8	24.4
27 Q	24.6	24.6	24.6	24.6	24.8	24.3	24.3	24.6	24.6	24.9	23.8	23.1	21.7	19.5	20.4	22.0	24.6	26.4	26.9	26.5	26.4	25.1	24.6	24.3	24.2
28	23.8	24.0	23.9	23.9	24.7	24.4	24.5	24.4	24.4	24.1	23.9	24.2	21.8	21.0	21.1	21.4	23.9	27.6	27.8	29.5	26.6	26.5	26.9	24.8	24.6
29 D	24.4	23.9	19.5	21.0	21.3	22.1	22.5	24.4	22.8	22.5	23.8	24.7	21.3	21.7	30.0	26.2	22.5	21.1	25.1	22.3	4.7	3.8	18.0	17.1	21.1
30 D	11.8	15.6	29.7	21.0	20.3	25.7	31.9	30.7	28.9	25.2	23.9	22.8	21.5	21.5	22.3	23.6	25.9	27.3	27.6	27.8	26.9	26.3	25.9	25.7	24.6
31	25.5	24.9	24.9	25.0	25.5	25.5	25.2	24.7	24.7	23.8	23.7	23.4	22.5	22.3	23.8	25.2	26.7	29.1	30.5	27.8	26.6	26.2	25.9	26.0	25.4
Mean	23.0	23.0	22.7	22.3	23.2	23.0	24.3	23.5	23.3	23.5	23.9	23.9	22.6	22.0	22.0	23.3	26.0	28.0	28.6	28.1	26.5	25.8	25.2	24.2	24.2

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 30 Agincourt

Z = 56,000 γ +

October 1963

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1 Q	122	123	123	124	127	125	124	124	123	121	123	124	124	123	121	119	121	123	124	126	126	125	127	125	124	
2 Q	124	124	124	120	121	121	122	121	118	117	117	118	119	121	119	114	116	119	124	126	125	121	119	118	121	
3 Q	117	117	117	114	115	116	117	116	109	107	113	116	115	117	118	117	116	114	114	119	120	119	118	117	116	
4	119	119	116	112	118	118	117	111	109	105	113	118	119	117	116	113	109	108	110	113	118	119	118	119	115	
5	119	119	120	120	119	118	117	117	114	109	98	104	111	113	113	110	110	111	114	117	118	119	120	120	115	
6	116	118	119	119	103	116	119	117	116	115	116	117	118	117	115	114	110	111	113	115	114	116	117	117	115	
7	115	115	116	117	118	116	114	110	110	112	114	115	115	115	107	108	107	104	105	114	121	135	131	115		
8	124	126	122	67	100	96	94	104	112	109	116	114	115	118	115	112	109	114	115	115	119	120	120	118	111	
9	118	117	118	119	119	114	114	116	116	118	116	117	118	116	114	113	110	110	113	115	118	119	121	121	116	
10	121	120	119	117	117	115	114	112	110	101	105	107	110	114	117	114	111	110	112	118	122	129	126	125	115	
11	120	118	116	115	109	104	106	87	66	78	73	57	51	73	98	101	104	106	109	116	116	119	124	127	100	
12 D	131	109	86	118	119	109	77	77	86	97	82	78	93	95	102	100	108	130	128	132	147	139	128	123	108	
13	118	118	119	105	68	60	81	98	99	106	112	113	114	117	113	113	109	108	111	113	118	128	133	129	109	
14 D	130	137	133	104	99	65	30	15	40	61	87	86	91	102	109	113	117	124	134	134	133	124	123	123	101	
15	122	119	115	111	91	79	81	99	111	114	108	109	111	113	114	113	112	111	110	115	118	122	126	126	110	
16	122	118	108	105	115	109	88	74	78	79	92	102	107	107	106	106	107	115	122	118	123	123	118	117	107	
17	118	115	115	114	106	98	100	107	112	114	115	115	114	114	112	112	114	114	118	117	118	119	118	113		
18	117	117	116	111	116	113	112	109	106	108	111	114	111	114	113	109	108	114	114	116	119	121	120	113		
19	120	120	118	115	115	110	106	104	102	104	105	108	109	112	109	105	105	108	115	120	126	123	121	112		
20	126	122	124	125	119	116	114	111	113	111	111	106	111	113	107	102	102	111	120	128	136	152	153	118		
21	138	133	133	129	126	102	104	103	112	111	102	112	117	121	121	121	122	123	126	128	125	123	120	118	120	
22 Q	116	117	117	117	117	116	116	117	115	115	115	116	118	119	123	118	115	115	117	117	116	116	113	113	117	
23	113	114	115	115	113	113	113	113	112	110	113	113	114	116	117	113	112	113	118	121	121	118	118	122	115	
24 D	180	192	279	140	41	44	10	77	-33	24	-146	59	124	116	117	113	114	122	131	136	135	152	151	145	101	
25	145	117	135	138	131	130	114	125	127	128	124	129	129	126	122	120	121	123	130	131	134	131	129	128		
26	126	131	119	125	124	119	125	125	123	124	121	121	124	125	124	118	115	119	123	126	128	126	125	121	123	
27 Q	121	121	122	122	124	121	123	123	121	121	120	121	121	120	115	115	119	123	126	125	123	122	121	121		
28	121	120	120	121	121	121	122	121	121	121	119	119	122	125	126	121	124	128	132	137	138	136	133	133	125	
29 D	132	131	127	126	123	118	111	109	98	94	100	108	121	123	118	114	125	175	211	287	342	334	196	225	156	
30 D	144	95	22	107	121	111	91	103	120	129	136	138	139	137	136	134	135	138	137	136	138	138	137	137	123	
31	135	134	134	133	133	133	133	132	132	133	131	128	131	129	127	123	121	122	126	128	128	129	128	128	129	
Mean	126	122	122	117	113	108	104	106	103	106	102	110	114	116	116	114	114	118	122	127	131	132	128	128	117	

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 31 Agincourt

H = 15,500 γ +

November 1963

Hour U. T. Day \	0 to 1 1	1 to 2 2	2 to 3 3	3 to 4 4	4 to 5 5	5 to 6 6	6 to 7 7	7 to 8 8	8 to 9 9	9 to 10 10	10 to 11 11	11 to 12 12	12 to 13 13	13 to 14 14	14 to 15 15	15 to 16 16	16 to 17 17	17 to 18 18	18 to 19 19	19 to 20 20	20 to 21 21	21 to 22 22	22 to 23 23	23 to 24 24	Mean	
1	507	503	502	497	502	501	502	497	500	508	505	503	498	491	481	486	493	494	498	507	514	509	506	512	501	
2	508	511	508	507	498	503	503	502	503	509	507	509	502	493	485	482	455	465	482	502	493	501	507	507	498	
3	497	505	508	500	500	492	494	491	487	503	510	509	502	491	489	489	497	505	507	507	510	497	505	514	500	
4	514	513	511	509	509	513	509	511	511	510	509	508	503	496	484	486	491	496	502	502	502	509	513	511	505	
5 Q	512	510	510	510	508	509	509	513	513	514	513	510	503	495	482	476	478	487	498	509	514	518	520	522	506	
6	523	516	515	518	518	519	519	519	520	519	523	522	516	503	480	484	497	500	505	508	507	499	507	513	510	
7 D	514	507	496	498	489	478	487	503	509	507	480	482	508	496	482	456	422	444	469	485	478	499	492	492	486	
8 D	513	471	507	495	491	470	455	471	501	508	508	491	478	489	475	464	452	466	491	497	482	491	500	503	487	
9 D	524	491	499	491	502	502	496	478	509	505	502	512	487	477	493	458	459	469	470	470	476	481	488	491	489	
10 D	487	484	498	491	493	503	504	497	503	485	504	509	501	491	491	480	473	481	487	501	502	513	509	491	495	
11	501	513	507	503	497	495	497	485	488	507	508	513	514	507	498	487	480	492	496	484	496	510	510	498	499	
12	508	503	504	509	498	496	498	496	492	508	503	509	509	502	493	473	465	473	489	502	507	508	509	508	498	
13	513	512	513	512	513	510	512	510	509	513	510	509	507	503	500	492	497	502	508	510	514	516	516	514	509	
14	514	513	513	511	511	509	509	513	514	519	518	516	513	508	502	496	498	503	513	516	516	520	519	513	511	
15	506	506	512	513	513	511	512	512	516	520	519	517	506	494	486	490	497	506	513	518	518	519	519	510		
16 Q	516	512	507	508	510	511	514	512	512	517	517	517	514	510	506	501	501	506	514	521	523	523	521	522	513	
17	521	519	518	517	518	521	518	520	522	535	534	528	526	511	539	490	514	505	515	525	521	516	517	519		
18 Q	515	514	515	515	515	511	511	512	512	515	513	513	511	508	502	498	495	498	504	506	517	520	520	511		
19 Q	519	518	516	515	515	514	514	515	515	517	515	516	514	505	504	494	495	501	512	520	521	522	525	526	513	
20	521	523	514	505	512	516	515	517	520	523	519	519	516	508	499	494	494	504	515	523	525	526	525	525	515	
21 Q	511	504	503	510	516	515	515	525	520	515	516	514	509	504	492	493	498	507	514	519	520	521	521	521	512	
22	521	519	519	519	519	519	521	523	525	526	524	523	525	521	514	506	502	492	494	508	521	516	519	516	516	
23	510	504	502	508	514	514	514	514	524	520	514	515	513	508	503	498	496	499	507	513	509	514	520	520	510	
24 D	518	515	511	511	507	508	509	519	511	509	514	519	506	481	486	475	455	470	489	491	487	483	469	471	496	
25	481	485	481	485	486	484	496	499	502	502	500	502	502	496	494	491	479	485	490	497	506	508	513	513	495	
26	514	513	512	513	514	512	513	513	515	508	513	513	514	512	507	502	496	496	503	509	515	517	518	516	511	
27	514	515	516	514	513	513	507	512	508	512	513	512	517	514	508	501	501	504	508	518	519	514	515	519	512	
28	518	519	514	502	506	506	513	515	518	518	517	517	515	512	507	503	503	506	511	514	518	519	521	521	513	
29	521	520	523	512	508	511	512	514	519	524	524	529	530	525	518	523	517	517	519	519	522	514	513	518	519	
30	502	505	512	512	512	513	516	516	516	517	509	502	500	533	514	496	482	487	486	500	512	513	511	511	507	
31																										
Mean	511	508	509	507	507	506	506	507	511	513	512	512	509	503	498	489	486	491	500	506	509	510	512	511	506	

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 32 Agincourt

D = 7° W + ...'

November 1963

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	24.7	24.8	25.6	25.6	26.4	26.1	25.4	21.9	23.5	23.5	23.0	23.1	22.6	21.3	22.7	25.4	27.3	29.2	30.6	28.3	26.4	25.8	25.6	25.6	25.2	
2	24.8	25.0	25.4	23.8	22.3	23.8	24.0	23.5	24.8	24.6	21.5	20.9	20.7	20.1	21.5	23.9	27.7	31.2	29.8	27.8	27.9	25.8	24.9	24.6	24.6	
3	19.9	19.9	24.6	24.1	31.1	22.4	21.2	23.3	29.6	25.8	21.7	22.2	21.6	21.5	22.7	25.6	27.7	28.8	27.7	27.2	26.6	25.7	23.3	23.5	24.5	
4	23.7	23.7	24.3	24.3	24.1	22.7	24.3	24.2	23.7	23.5	23.4	22.4	21.4	20.6	21.4	23.9	26.5	27.9	27.9	27.7	26.5	25.6	25.2	24.6	24.3	
5 Q	23.8	24.2	24.3	24.5	24.6	24.5	24.7	24.7	24.2	23.6	23.4	23.3	22.6	21.5	22.3	24.3	26.1	27.6	27.6	26.0	25.3	24.5	24.5	23.8	24.4	
6	23.3	22.6	22.5	23.4	23.4	24.0	24.2	24.2	24.5	21.1	20.3	21.3	20.3	20.0	23.2	27.8	29.3	28.7	29.5	29.2	28.9	26.8	22.1	23.7	24.3	
7 D	22.7	22.1	18.1	20.3	25.5	18.8	24.5	23.2	23.6	21.9	33.7	41.3	34.7	25.5	25.3	25.7	29.7	33.5	35.4	31.2	23.2	26.5	26.5	19.2	26.3	
8 D	17.9	19.4	9.7	19.3	20.5	34.9	38.1	17.2	23.2	20.6	23.2	31.4	33.8	29.9	27.6	37.1	30.3	27.8	28.7	29.5	27.6	23.5	25.6	23.6	25.8	
9 D	16.8	10.8	17.0	22.6	24.6	25.2	26.2	34.1	26.4	24.7	24.4	24.5	31.5	36.1	28.8	27.5	30.8	30.9	28.8	28.1	32.7	24.6	22.2	19.7	25.8	
10 D	16.0	23.5	20.5	15.0	24.4	27.5	24.6	26.7	25.0	32.8	31.7	24.6	24.7	23.5	23.4	24.1	28.4	28.7	27.4	27.7	25.9	24.4	25.3	18.7	24.8	
11	20.9	17.7	20.3	17.7	23.5	25.3	25.5	32.6	30.8	26.8	25.3	24.5	22.1	20.3	20.9	23.4	25.6	27.4	29.3	28.9	27.0	24.3	24.4	22.0	24.4	
12	22.7	23.2	22.4	23.3	21.3	22.1	24.4	26.6	28.7	25.2	23.1	22.4	21.7	20.2	20.4	23.8	29.0	30.8	28.5	26.8	26.3	25.4	24.9	23.2	24.4	
13	23.1	22.1	22.7	23.8	24.3	24.1	24.3	24.0	23.5	23.4	24.3	24.4	23.2	24.3	23.3	25.1	27.2	28.0	28.2	26.9	25.5	25.1	24.3	24.0	24.5	
14	23.2	23.4	23.5	24.0	22.4	26.6	23.7	24.4	23.4	23.1	23.0	23.1	22.3	22.3	22.8	24.4	25.9	27.4	27.5	25.9	25.3	24.6	24.6	24.0	24.2	
15	24.0	23.2	22.1	23.5	23.8	24.5	25.2	24.9	24.6	24.4	22.8	23.0	22.1	21.0	20.9	23.2	25.9	28.1	28.1	26.3	25.5	24.7	23.8	23.2	24.1	
16 Q	22.9	22.8	20.9	23.0	23.7	24.3	26.1	25.5	24.5	23.0	23.1	23.1	22.5	22.0	22.4	25.1	26.7	27.4	27.4	27.0	25.3	24.4	24.0	23.4	24.2	
17	23.0	22.7	23.2	23.4	24.1	24.8	24.8	24.5	23.5	23.4	21.1	20.5	20.3	16.9	19.0	29.7	32.2	32.9	32.6	28.6	27.4	26.1	24.5	23.4	24.7	
18 Q	23.3	23.2	23.3	23.5	23.8	24.1	24.6	24.4	23.7	23.4	23.3	22.8	22.2	21.2	20.4	22.0	23.5	25.5	26.7	26.0	26.2	25.6	24.9	23.6	23.8	
19 Q	23.3	23.2	23.3	23.5	23.6	23.7	24.1	24.0	24.2	23.3	22.5	22.4	21.8	21.0	21.4	23.3	25.5	27.0	27.3	26.2	25.2	24.9	24.6	24.1	23.9	
20	23.6	23.5	23.4	21.1	24.8	24.8	24.6	24.5	24.2	23.5	23.3	22.6	22.3	20.5	22.1	23.4	24.7	27.6	27.6	26.7	25.4	24.7	24.0	23.5	24.0	
21 Q	23.4	23.3	23.3	23.4	23.7	24.2	24.2	24.5	24.2	23.4	23.4	23.2	21.9	20.5	22.3	24.1	26.1	27.9	28.9	27.8	26.5	25.6	24.5	23.6	24.3	
22	23.2	23.3	23.4	23.7	23.9	24.2	24.5	24.5	24.6	24.0	23.9	23.5	22.1	20.3	21.3	23.7	26.3	28.0	32.0	30.7	28.9	27.3	25.5	24.5	24.9	
23	24.3	23.4	20.6	24.4	24.2	23.9	23.5	22.7	27.2	22.4	23.3	22.6	21.5	21.2	22.2	24.6	27.1	27.7	27.7	27.6	26.8	24.9	24.7	23.7	24.3	
24 D	23.5	23.1	22.7	22.0	20.9	24.6	24.9	23.2	23.5	26.2	27.6	24.2	23.5	26.6	26.6	27.2	30.1	31.7	30.7	28.8	27.7	21.4	23.2	25.3	25.4	
25	16.2	20.8	21.2	21.4	17.2	18.0	22.7	24.3	24.1	24.8	24.3	23.7	24.6	23.6	22.4	23.5	25.7	26.4	27.4	26.2	26.1	24.4	24.7	24.1	23.2	
26	24.1	23.7	23.8	23.7	24.2	24.4	24.6	24.9	25.0	23.4	23.3	23.3	23.4	23.5	22.7	23.2	24.6	26.3	27.6	26.6	25.9	25.2	24.6	24.3	24.4	
27	24.2	24.2	24.2	24.4	24.6	23.3	25.1	23.5	23.5	23.6	23.6	23.7	22.9	22.7	22.1	23.0	23.9	25.8	27.4	26.5	26.1	25.7	25.3	24.2	24.3	
28	23.7	23.7	23.9	24.0	21.3	24.1	24.0	24.0	24.4	24.4	23.8	23.4	23.5	23.5	22.7	23.9	24.6	26.2	27.4	26.4	25.8	25.5	24.7	24.3	24.3	
29	23.8	23.7	23.6	25.2	22.7	24.1	24.7	23.9	23.7	23.4	24.3	23.2	22.9	23.9	26.9	25.7	25.7	26.9	27.6	26.9	26.5	25.7	25.7	25.8	24.8	
30	25.5	23.5	23.7	23.7	23.6	23.8	23.8	23.6	23.1	22.5	21.6	24.1	34.4	27.8	21.4	23.6	25.5	27.7	28.0	26.7	25.7	25.0	23.9	22.5	24.8	
31																										
Mean	22.5	22.5	22.2	22.9	23.6	24.3	24.9	24.6	24.8	24.0	23.9	24.0	23.8	22.8	22.8	25.0	27.0	28.4	28.7	27.5	26.5	25.1	24.5	23.5	24.6	

Table 33 Agincourt

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

 $Z = 56,000 \gamma +$

November 1963

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	134	133	134	138	135	124	126	128	133	133	134	133	134	130	130	128	127	133	136	138	138	137	138	138	133	
2	137	138	139	137	134	138	136	133	133	132	134	137	134	134	133	125	127	138	135	138	134	134	133	132	134	
3	134	132	130	122	81	98	103	105	105	107	121	126	127	128	128	122	116	117	123	127	128	132	132	128	120	
4	128	126	125	126	122	117	121	123	123	124	124	126	126	124	122	124	126	126	128	129	129	129	129	129	125	
5 Q	129	129	128	128	128	127	128	128	128	128	127	128	131	133	131	129	129	133	135	135	134	131	129	128	130	
6	128	126	128	128	126	126	124	123	116	112	116	113	122	122	121	117	121	122	127	128	133	139	139	132	125	
7 D	129	129	132	125	109	71	82	119	129	123	99	74	86	98	110	114	126	149	164	194	210	158	147	155	126	
8 D	137	165	136	126	128	.50	-4	43	98	118	120	109	105	116	106	110	118	138	134	137	143	150	145	143	115	
9 D	128	125	120	131	125	109	105	86	108	111	122	127	119	119	113	118	135	137	145	160	177	177	159	161	130	
10 D	145	112	88	116	120	102	119	119	117	98	99	99	117	119	118	113	120	131	142	137	139	137	137	139	120	
11	136	125	119	115	124	109	108	92	86	109	113	118	124	121	114	108	112	119	125	129	134	134	131	130	118	
12	130	130	129	119	113	114	115	112	111	108	108	120	125	125	124	120	129	134	137	135	134	130	130	129	123	
13	129	127	127	125	123	125	126	128	129	127	125	125	125	123	123	124	124	125	125	127	127	128	128	126		
14	126	125	125	125	122	107	119	124	125	125	124	125	126	127	125	124	125	127	129	128	129	125	124	124		
15	127	127	124	125	124	123	123	123	124	124	124	123	125	123	120	119	119	120	124	123	124	125	125	124	123	
16 Q	124	123	123	123	123	123	119	119	120	121	123	123	122	120	119	118	119	119	120	123	124	123	121	121		
17	122	120	120	120	119	119	119	119	119	118	113	113	114	114	115	109	107	112	114	114	119	119	123	119	117	
18 Q	120	120	120	120	120	120	120	119	119	119	120	120	119	118	109	109	111	113	118	121	123	123	120	121	119	
19 Q	119	119	119	118	119	119	119	119	119	118	120	120	121	123	119	116	119	121	123	123	120	121	120			
20	119	119	119	122	123	120	120	120	119	118	119	121	120	118	116	116	119	122	123	122	119	119	119	120		
21 Q	118	118	118	118	119	118	118	118	118	117	117	117	118	119	117	114	117	118	123	123	124	124	122	119	119	
22	118	118	118	118	117	115	115	114	114	114	112	113	114	112	109	108	111	114	123	124	123	118	118	118	116	
23	119	123	126	126	122	118	117	112	100	95	110	112	113	114	111	106	107	111	117	121	121	121	118	117	115	
24 D	117	117	118	118	117	118	114	101	100	107	99	95	98	102	103	112	124	131	139	160	174	165	161	121		
25	145	129	132	127	117	96	105	113	107	103	113	119	119	123	117	114	113	115	118	123	124	123	123	122	118	
26	119	119	120	120	119	119	117	118	109	111	115	116	116	114	113	111	111	114	119	123	123	120	119	118	117	
27	119	119	119	119	119	115	115	113	114	118	118	118	119	120	120	116	116	118	123	126	124	121	120	117	118	
28	117	117	119	121	121	122	121	120	119	118	117	116	116	115	114	116	116	118	120	121	121	120	119	118		
29	118	118	115	120	123	121	121	117	117	117	115	112	111	112	113	110	110	112	115	117	117	119	121	116		
30	123	126	123	122	118	120	119	119	118	115	114	108	92	94	103	107	114	118	122	125	127	126	127	127	117	
31																										
Mean	126	125	123	123	120	113	113	114	116	116	117	117	118	119	118	115	115	118	123	127	130	133	131	129	129	121

HORIZONTAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 34 Agincourt

 $H = 15,500 \gamma +$

December 1963

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
Hour U.T. Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	513	513	512	513	513	513	514	516	517	518	517	518	520	516	506	492	502	502	505	511	518	520	523	527	513
2	528	524	522	516	512	513	509	506	516	521	518	519	516	512	489	484	495	502	507	518	518	523	528	525	513
3 D	513	504	506	489	511	512	507	495	496	518	509	502	496	495	486	482	475	468	480	486	490	484	506	511	497
4 D	508	507	512	522	506	502	495	512	512	520	518	511	501	494	471	465	465	494	500	496	479	472	486	498	
5 D	514	493	501	506	507	513	506	513	502	500	508	518	518	501	471	475	468	477	477	475	494	486	496	512	497
6 D	513	507	503	502	499	517	513	508	504	512	518	518	495	496	479	486	475	469	476	492	501	505	512	518	501
7	514	503	508	512	513	508	509	508	507	502	512	514	502	512	507	489	483	490	496	506	506	508	511	514	506
8	506	517	518	512	508	503	506	501	503	513	512	517	508	506	506	485	485	490	492	500	508	512	519	519	506
9	517	517	516	513	514	516	511	508	512	508	504	522	516	508	498	495	498	505	512	519	522	524	523	513	
10 Q	522	520	519	518	517	518	517	519	520	521	524	524	524	524	520	509	502	501	505	512	520	524	528	527	518
11 Q	523	522	522	519	520	522	522	523	524	527	526	528	529	525	519	513	506	508	512	519	526	529	528	524	521
12	519	517	519	519	521	519	518	520	522	524	525	524	528	528	524	518	510	508	514	518	523	529	528	512	520
13	510	517	514	513	503	509	516	520	521	524	529	530	527	522	518	512	509	512	518	508	525	526	530	530	518
14	527	525	522	518	520	521	520	515	518	524	525	529	526	531	514	517	527	520	524	521	525	528	522	520	522
15	518	514	511	509	514	509	514	516	516	514	518	519	517	516	514	504	502	506	514	522	529	529	528	527	516
16	519	515	518	519	517	519	520	521	524	524	524	524	520	519	518	508	511	515	518	522	527	529	531	523	520
17	521	524	523	523	523	524	522	523	525	529	527	526	525	519	509	496	945	503	509	516	520	527	532	531	520
18 Q	530	530	528	525	524	524	524	524	528	527	527	530	530	529	524	514	509	511	520	529	531	531	531	530	525
19	530	529	528	528	527	527	526	528	529	529	531	531	531	530	525	517	510	514	521	529	542	545	528	509	527
20 D	523	523	525	530	527	518	513	504	513	523	528	535	529	524	524	514	501	503	509	506	497	508	509	513	517
21	516	516	515	514	519	520	521	520	522	525	525	526	531	521	519	508	500	503	506	515	525	524	514	509	517
22	524	525	524	520	513	516	510	523	526	526	532	531	529	511	523	515	505	497	495	499	519	522	516	515	517
23	524	523	523	522	519	514	514	521	514	521	527	526	526	520	514	503	487	482	498	500	525	524	516	510	515
24	510	515	521	522	522	521	521	523	525	530	526	525	525	516	514	505	502	495	504	514	515	521	525	517	
25 Q	528	527	524	521	520	524	525	524	524	522	522	530	528	525	519	507	500	502	501	510	520	526	531	531	520
26	530	526	525	525	525	521	524	524	525	524	526	531	530	528	519	504	499	505	515	523	528	525	523	521	522
27	519	519	515	510	515	525	531	528	528	530	531	531	531	532	534	521	515	517	519	521	529	532	534	531	525
28	526	520	521	521	520	525	533	531	532	534	536	536	532	528	521	514	512	514	521	528	508	521	526	531	525
29	533	527	522	532	530	525	527	526	531	532	532	519	504	499	503	499	484	493	504	516	527	523	522	518	
30	526	520	524	524	520	520	517	520	521	522	521	522	521	515	509	511	511	515	521	523	527	526	523	520	
31 Q	527	527	526	526	524	522	522	525	526	526	527	531	529	525	526	518	516	518	524	526	529	532	533	526	
Mean	520	518	518	518	517	517	517	518	519	521	523	524	521	518	512	503	499	500	506	512	518	520	521	520	516

DECLINATION
Mean values for periods of sixty minutes, Universal Time

Table 35 Agincourt

 $D = 7^\circ \text{ W} + \dots'$

December 1963

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	23.6	23.8	23.5	23.9	23.8	24.4	24.0	24.0	24.5	23.7	23.4	23.2	22.9	22.7	23.2	24.1	24.9	26.5	27.4	25.9	25.6	24.7	24.2	24.0	24.3
2	23.3	23.2	23.4	22.8	23.6	24.0	23.6	23.8	23.5	22.7	23.4	23.2	22.8	21.8	22.4	25.8	27.8	29.7	32.9	30.1	26.3	24.7	23.6	22.3	24.6
3 D	21.8	21.7	17.1	21.7	28.1	25.7	22.5	32.1	27.1	21.2	23.6	29.1	33.3	30.2	26.4	25.7	27.1	30.1	28.9	29.7	27.7	18.0	23.8	23.3	25.7
4 D	22.5	21.7	19.7	21.1	23.4	24.2	31.8	26.5	24.9	25.6	25.6	25.7	26.9	24.7	24.4	27.2	30.4	29.3	27.4	23.5	23.6	23.8	21.9	15.1	24.6
5 D	20.6	22.4	20.0	22.4	30.1	27.0	25.8	27.1	25.7	27.7	27.6	25.7	24.2	26.6	30.1	31.2	30.4	29.0	29.7	29.7	24.7	25.8	24.0	22.1	26.2
6 D	16.6	20.3	21.7	22.4	31.2	27.1	23.6	24.0	28.9	27.4	24.4	23.7	25.2	24.1	23.4	22.0	24.5	25.9	26.0	27.6	27.8	25.4	21.4	23.8	24.5
7	23.5	19.3	17.7	21.7	23.4	26.7	28.9	29.5	29.1	28.6	26.5	26.0	28.9	23.6	25.0	23.9	26.0	27.4	27.7	26.7	26.6	25.5	25.0	23.8	25.5
8	22.4	22.7	22.7	22.3	27.7	25.3	20.2	24.7	27.7	25.0	23.2	24.4	25.9	24.7	22.5	24.2	25.8	28.1	27.8	25.9	25.7	22.8	23.4	23.6	24.5
9	23.6	23.2	23.2	23.7	23.8	22.8	23.7	25.9	24.8	25.1	25.9	24.4	24.5	24.0	23.4	25.4	27.0	27.7	26.9	26.0	25.0	24.0	23.9	24.8	
10 Q	23.9	23.8	23.8	23.9	24.0	24.5	24.8	25.1	24.7	24.5	24.5	23.8	23.5	22.4	21.1	21.7	23.2	25.4	26.4	25.8	25.5	24.7	24.2	23.7	24.1
11 Q	23.6	23.5	23.6	23.4	24.3	24.3	24.7	24.9	24.7	24.5	24.4	24.0	23.5	22.8	22.3	22.3	24.4	25.5	26.4	26.7	25.7	24.8	23.9	23.8	24.3
12	23.7	23.5	23.9	24.0	24.2	23.9	24.8	25.3	24.8	23.6	23.5	24.0	23.8	23.3	22.9	22.9	24.0	25.8	26.4	25.7	25.6	25.0	24.6	24.5	24.3
13	24.0	22.9	22.4	19.5	20.8	22.9	23.3	23.8	23.8	23.4	24.0	23.7	24.0	24.2	23.9	24.3	23.7	22.9	22.9	24.0	25.7	27.0	26.8	26.4	23.8
14	23.5	23.4	23.5	22.9	24.3	24.4	24.0	23.5	23.7	23.0	23.0	23.5	23.4	25.1	25.6	28.5	29.4	27.2	27.9	30.0	29.0	28.8	25.1	23.9	25.3
15	23.3	23.3	23.5	23.7	23.3	23.7	23.6	22.6	23.8	22.6	23.0	22.9	24.5	22.6	22.6	23.3	26.6	27.8	26.7	26.0	25.7	25.0	24.5	23.9	24.1
16	24.5	22.6	24.1	23.9	23.9	24.6	25.1	25.2	24.1	23.9	24.2	23.6	23.7	23.2	22.5	24.3	25.6	29.1	29.1	27.9	26.0	24.8	24.4	24.5	24.8
17	23.9	23.3	23.6	23.8	23.8	24.0	23.9	24.8	25.0	24.6	24.6	24.3	23.4	21.6	20.7	23.2	26.6	28.1	28.4	27.2	26.1	24.8	23.6	23.5	24.4
18 Q	23.2	23.2	23.5	23.8	24.0	24.5	24.5	24.6	23.9	22.8	23.4	23.6	22.9	22.1	21.6	23.5	24.9	26.0	27.0	26.6	25.8	25.1	24.8	24.0	24.1
19	23.6	23.5	23.7	23.8	24.2	24.7	24.7	24.9	24.5	23.1	23.0	22.7	23.0	22.0	21.0	23.0	26.0	28.0	28.0	26.8	26.1	26.0	27.1	25.9	24.6
20 D	25.1	22.3	23.1	23.8	24.1	23.8	19.8	14.3	20.0	21.6	23.8	23.0	22.7	27.2	26.0	25.6	26.9	29.4	30.3	29.9	30.3	29.1	25.8	24.2	24.7
21	23.1	22.5	22.7	23.0	23.4	24.4	24.9	25.9	23.7	23.4	23.8	22.0	22.7	22.6	23.6	27.1	28.6	28.8	27.9	26.9	25.8	26.8	25.8	24.8	
22	23.7	23.0	23.6	24.0	24.7	21.7	26.9	26.5	24.0	26.2	25.6	26.2	25.8	30.1	27.3	26.2	28.1	30.0	30.3	28.8	28.0	25.8	24.2	22.7	26.0
23	23.6	23.3	23.7	23.8	24.1	23.9	25.5	25.2	28.0	28.4	23.7	24.0	23.8	22.2	21.6	22.6	25.9	30.0	29.3	27.7	26.2	26.7	25.7	25.0	
24	22.0	23.0	23.1	24.2	24.5	25.3	25.6	25.3	25.1	25.0	25.0	24.8	23.7	23.9	25.0	24.1	26.8	29.0	29.2	28.2	26.8	25.0	25.7	24.3	25.2
25 Q	23.9	23.8	23.8	24.0	24.5	25.0	25.4	25.0	25.0	24.7	27.3	25.1	24.1	22.7	21.8	24.5	26.2	27.0	27.4	26.6	25.8	25.3	25.0	24.8	24.9
26	24.1	23.9	24.0	22.1	22.8	24.0	25.1	24.8	24.7	25.2	24.0	23.9	24.2	23.0	22.6	25.3	27.0	28.1	27.9	27.0	26.1	25.8	25.4	25.1	24.8
27	24.3	23.7	22.7	22.7	23.4	23.7	22.5	24.0	24.8	24.2	24.0	24.1	25.2	23.9	21.6	22.4	24.8	26.0	26.1	26.0	25.9	25.2	24.2	24.0	24.2
28	24.2	24.0	23.9	23.4	22.8	24.7	27.2	26.0	24.2	23.9	24.0	23.9	23.8	23.2	22.7	24.5	27.2	30.1	31.0	30.1	28.3	36.6	25.0	23.7	25.8
29	23.8	23.2	18.7	23.1	24.0	23.7	24.1	25.9	24.3	24.3	21.9	29.3	36.6	30.8	28.1	27.4	30.9	32.3	30.5	30.3	28.8	26.7	26.3	24.6	26.7
30	24.1	23.4	22.7	23.5	24.1	24.2	24.3	24.6	24.8	24.0	24.8	24.9	23.8	22.1	22.3	23.5	25.9	28.1	28.2	27.8	27.0	26.1	25.9	25.1	24.8
31 Q	24.2	23.5	23.5	24.0	24.2	24.3	25.1	25.1	24.8	24.5	24.8	24.0	23.8	23.3	22.9	24.8	26.4	27.4	28.1	27.3	26.4	25.5	25.1	24.3	24.9
Mean	23.3	22.9	22.6	23.1	24.5	24.4	24.6	25.0	24.9	24.5	24.4	24.5	24.9	24.1	23.6	24.6	26.5	27.9	28.1	27.4	26.5	25.7	24.7	23.8	24.8

VERTICAL INTENSITY
Mean values for periods of sixty minutes, Universal Time

Table 36 Agincourt

 $Z = 56,000 \gamma +$

December 1963

Hour U.T. Day	0 to 1 1	1 to 2 2	2 to 3 3	3 to 4 4	4 to 5 5	5 to 6 6	6 to 7 7	7 to 8 8	8 to 9 9	9 to 10 10	10 to 11 11	11 to 12 12	12 to 13 13	13 to 14 14	14 to 15 15	15 to 16 16	16 to 17 17	17 to 18 18	18 to 19 19	19 to 20 20	20 to 21 21	21 to 22 22	22 to 23 23	23 to 24 24	Mean
1	125	124	124	126	123	122	120	119	118	118	119	119	119	118	115	116	114	119	123	123	123	120	118	120	120
2	119	119	119	119	121	119	120	119	120	119	119	118	118	118	114	120	120	117	120	122	124	124	124	125	120
3 D	128	128	123	124	110	106	97	62	48	101	104	108	102	107	112	120	124	128	134	137	149	155	137	132	116
4 D	131	130	125	109	117	116	105	111	118	118	119	118	116	118	117	119	124	129	132	132	135	137	152	153	124
5 D	138	135	130	120	109	104	99	105	113	117	113	119	120	116	118	121	122	130	135	143	146	139	138	133	124
6 D	127	125	125	120	101	98	107	112	114	113	114	113	113	121	122	126	124	124	131	133	133	132	131	129	120
7	128	128	127	125	118	107	104	96	91	99	112	114	114	120	117	114	117	117	122	127	127	125	125	117	
8	124	123	120	119	108	91	99	100	97	100	110	114	114	121	120	118	122	121	126	126	126	127	126	121	116
9	122	121	121	121	119	116	113	111	102	108	111	110	111	110	107	111	111	113	115	118	120	121	118	116	115
10 Q	118	117	118	118	118	118	117	118	118	119	118	118	118	117	115	111	113	116	120	123	123	120	119	118	118
11 Q	119	118	118	119	119	117	117	117	116	117	117	117	116	115	115	112	114	119	120	123	121	120	119	118	118
12	119	120	120	120	119	117	117	118	116	117	116	116	116	116	115	112	111	111	112	116	115	114	114	116	
13	118	117	118	116	117	117	117	116	117	112	113	112	112	111	109	105	108	113	117	122	119	121	119	119	115
14	120	118	120	123	122	122	119	119	120	120	119	119	118	116	112	114	114	115	117	121	129	129	126	120	
15	127	126	126	126	127	125	119	121	123	123	124	121	125	122	119	121	122	123	126	125	127	126	124	123	124
16	126	127	128	127	126	124	124	123	123	123	124	123	124	124	122	119	119	122	126	127	125	123	124	124	124
17	127	125	125	124	123	124	123	124	123	122	124	123	124	123	120	119	120	125	127	126	125	125	124	123	124
18 Q	123	122	122	121	121	120	122	121	120	120	120	119	120	119	114	111	113	114	119	119	120	122	120	120	119
19	121	121	120	120	120	119	119	120	120	120	119	119	120	124	114	109	113	118	121	122	125	123	121	134	120
20 D	135	133	126	123	120	117	104	89	108	113	115	111	111	110	105	108	111	115	119	125	135	132	136	132	118
21	130	127	126	126	125	125	124	122	119	116	121	123	122	120	119	116	121	123	127	126	127	127	128	135	124
22	131	127	126	124	123	112	111	111	115	116	111	111	116	117	116	117	119	122	128	137	137	133	130	130	122
23	127	125	123	122	121	120	122	116	111	101	114	118	121	123	122	119	122	126	130	133	132	127	126	127	122
24	130	128	125	124	123	123	123	123	123	121	122	122	123	123	119	121	123	124	126	128	128	128	125	124	
25 Q	124	123	121	121	118	121	120	120	119	117	117	117	119	118	115	117	119	123	123	122	118	118	118	120	120
26	117	117	118	118	117	117	118	118	117	117	116	116	117	117	116	116	118	118	123	125	124	123	123	119	
27	123	122	121	122	120	117	107	111	116	117	117	117	117	117	110	105	113	117	115	118	121	119	117	116	117
28	117	117	117	117	116	116	106	108	112	113	116	113	113	113	112	109	110	113	117	118	121	127	122	118	115
29	119	119	121	120	117	117	115	115	113	114	116	106	102	107	106	107	116	120	123	128	127	124	126	128	117
30	127	128	127	124	124	121	121	120	118	119	119	118	119	117	116	117	118	123	124	124	123	122	123	123	121
31 Q	122	121	121	119	121	118	118	117	117	116	118	118	118	117	115	112	116	118	120	118	119	118	118	117	118
Mean	125	124	123	121	119	116	114	113	113	115	117	116	117	117	117	115	115	117	120	123	125	127	126	125	120

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY (All Days)

Table 37 Agincourt

15,500 γ +

1963

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	457	471	479	487	494	502	509	510	492	504	511	520	495	504	490	490
1-2	455	468	478	486	493	499	507	506	505	501	508	518	494	501	492	487
2-3	455	466	477	487	493	497	506	506	496	501	509	518	493	500	490	487
3-4	455	466	475	486	491	495	504	504	489	503	507	518	491	498	488	486
4-5	454	467	477	487	489	492	503	504	486	499	507	517	490	497	487	486
5-6	453	466	476	486	491	494	503	501	481	501	506	517	490	497	486	486
6-7	454	465	477	485	488	493	504	508	480	500	506	517	489	497	486	486
7-8	456	464	478	485	489	490	501	502	471	503	507	518	489	496	484	486
8-9	454	465	477	486	488	495	500	504	478	500	511	519	490	497	485	487
9-10	459	468	478	486	488	496	505	501	483	502	513	521	492	498	487	490
10-11	461	471	480	487	489	495	507	500	485	509	512	523	493	498	490	492
11-12	462	472	480	485	488	494	502	499	487	512	512	524	493	496	491	492
12-13	463	468	476	480	483	488	496	492	483	506	509	521	489	490	486	490
13-14	460	463	469	473	474	480	491	484	476	496	503	518	482	482	478	485
14-15	453	459	460	464	467	474	484	472	467	486	498	512	475	474	469	480
15-16	447	456	453	462	467	471	478	473	460	478	489	503	470	472	463	474
16-17	443	453	453	468	475	476	484	481	468	474	486	499	472	479	466	470
17-18	444	457	456	478	487	487	494	496	481	480	491	500	479	491	474	473
18-19	450	462	465	485	500	496	510	506	496	491	500	506	489	503	484	480
19-20	454	466	473	490	506	508	517	515	507	501	506	512	496	512	493	484
20-21	458	469	477	494	507	512	521	521	514	513	509	518	501	515	500	488
21-22	460	471	481	491	505	511	521	519	523	514	510	520	502	514	502	490
22-23	461	470	480	491	501	510	519	516	510	509	512	521	500	512	498	491
23-24	460	470	479	491	498	505	511	514	507	506	511	520	498	507	496	490
Mean	455	466	473	483	490	494	503	501	489	500	506	516	490	497	486	486

MEAN VALUES OF MAGNETIC ELEMENTS
 HORIZONTAL INTENSITY (Quiet Days)

Table 38 Agincourt

15,500 γ +

1963

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	465	472	483	489	499	501	509	516	508	511	515	526	500	506	498	494
1-2	464	471	481	489	500	501	509	515	509	509	512	525	499	506	497	493
2-3	464	469	481	488	498	499	509	512	512	507	510	524	498	504	497	492
3-4	461	468	481	488	497	498	508	512	513	506	512	522	497	504	497	491
4-5	462	468	481	488	496	497	508	513	512	505	513	521	497	504	496	491
5-6	462	468	481	488	496	498	507	512	512	507	512	522	497	503	497	491
6-7	463	469	482	490	495	497	509	513	510	508	513	522	498	504	498	492
7-8	464	470	482	490	495	494	510	511	511	510	513	523	498	502	498	492
8-9	465	471	483	491	494	497	509	511	509	512	515	524	498	503	499	494
9-10	466	473	483	490	495	499	510	510	508	514	517	525	499	504	499	495
10-11	466	473	484	489	496	500	512	508	507	515	515	525	499	504	499	495
11-12	466	473	482	486	495	498	511	504	504	512	514	529	498	502	496	496
12-13	468	471	480	479	489	490	504	496	497	508	511	528	493	495	491	494
13-14	467	469	473	471	481	482	497	497	482	500	505	526	488	489	482	492
14-15	461	465	464	463	476	478	499	477	469	488	500	522	480	482	471	487
15-16	457	464	456	461	479	474	483	483	469	486	492	512	476	480	468	481
16-17	452	462	454	468	487	480	489	492	480	489	492	507	479	487	473	478
17-18	454	463	458	478	499	490	499	506	490	496	498	508	487	498	480	481
18-19	458	469	469	486	508	490	511	515	509	504	507	512	495	506	492	486
19-20	462	472	476	489	512	507	519	522	518	511	514	519	502	515	498	492
20-21	466	475	480	491	511	510	523	524	527	514	519	525	505	517	503	496
21-22	469	477	483	491	506	510	525	522	523	515	521	528	506	516	503	499
22-23	470	476	484	492	503	507	524	520	513	515	521	530	505	514	501	499
23-24	469	475	485	495	502	504	520	517	514	516	522	529	504	511	502	499
Mean	463	470	477	485	496	496	508	509	504	507	511	522	496	502	493	492

MEAN VALUES OF MAGNETIC ELEMENTS

HORIZONTAL INTENSITY (Disturbed Days)

Table 39 Agincourt

15,500 γ +

1963

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	451	465	466	481	488	507	509	510	441	482	511	514	485	504	468	485
1-2	441	455	465	480	492	505	505	494	504	486	494	507	484	499	479	474
2-3	440	449	463	485	484	498	506	495	457	469	502	509	479	496	467	475
3-4	442	450	458	484	481	484	494	492	420	497	497	510	476	488	465	475
4-5	436	459	466	488	472	468	497	492	413	471	496	510	472	482	460	475
5-6	423	453	466	487	478	478	501	472	387	483	492	512	469	482	456	470
6-7	427	443	460	485	473	479	510	481	386	466	490	507	467	486	449	467
7-8	432	438	468	483	478	466	505	482	327	477	494	506	463	483	439	468
8-9	425	440	460	481	473	489	493	491	385	445	507	505	466	486	443	469
9-10	434	454	463	487	470	496	506	492	420	453	503	513	474	491	456	476
10-11	447	462	471	489	476	493	503	485	453	482	502	517	482	489	474	482
11-12	449	464	471	483	472	488	501	489	468	498	503	518	484	488	480	484
12-13	449	452	468	480	471	478	490	480	453	491	496	510	476	480	473	477
13-14	443	446	456	471	461	476	495	471	455	476	487	503	470	476	464	470
14-15	432	442	444	457	454	479	493	474	452	473	485	491	465	475	456	462
15-16	432	436	437	461	456	473	476	470	435	463	467	485	458	469	449	455
16-17	425	430	441	473	458	475	473	479	451	442	452	477	456	471	452	446
17-18	427	443	442	484	471	484	488	496	475	449	466	476	467	485	462	453
18-19	437	448	455	487	489	487	498	499	493	472	481	487	478	493	477	463
19-20	445	445	467	491	497	510	509	510	515	499	489	492	489	506	493	468
20-21	450	452	470	495	500	509	518	517	520	534	485	496	496	511	505	471
21-22	452	458	470	485	497	509	523	519	572	536	493	492	500	512	516	474
22-23	455	460	468	489	498	513	528	518	526	520	492	499	497	514	500	476
23-24	452	457	466	489	495	498	509	525	521	488	490	508	492	507	490	477
Mean	439	450	461	482	479	489	501	493	455	480	491	502	477	490	470	470

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION (All Days)

Table 40 Agincourt

7° W + ...'

1963

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	20.1	20.8	21.5	21.2	21.7	21.5	22.4	20.7	22.6	23.0	22.5	23.3	21.8	21.6	22.1	21.7
1-2	19.3	20.5	21.4	21.0	20.9	20.4	22.3	20.3	21.8	23.0	22.5	22.9	21.4	21.0	21.8	21.3
2-3	19.6	20.6	21.2	20.8	20.4	20.8	22.0	20.2	21.9	22.7	22.2	22.6	21.2	20.8	21.6	21.2
3-4	19.3	21.2	21.4	21.5	20.3	21.2	20.4	20.8	23.0	22.3	22.9	23.1	21.4	20.7	22.0	21.6
4-5	19.9	21.4	22.2	21.6	21.4	21.4	22.0	20.3	24.4	23.2	23.6	24.5	22.2	21.3	22.8	22.4
5-6	20.4	21.7	21.6	21.5	22.1	21.8	21.9	21.5	24.1	23.0	24.3	24.4	22.4	21.8	22.6	22.7
6-7	20.5	22.4	21.5	21.1	22.8	23.0	23.7	22.6	23.3	24.3	24.9	24.6	22.9	23.0	22.6	23.1
7-8	20.5	22.2	21.0	21.0	22.1	22.8	23.3	22.9	22.1	23.5	24.6	25.0	22.6	22.8	21.9	23.1
8-9	21.1	21.9	20.6	20.4	22.0	22.7	24.1	22.5	22.6	23.3	24.8	24.9	22.6	22.8	21.7	23.2
9-10	21.8	20.5	20.7	20.4	21.8	20.7	22.3	21.8	22.2	23.5	24.0	24.5	22.0	21.6	21.7	22.7
10-11	20.9	20.4	20.7	19.4	20.0	18.8	19.6	19.7	22.8	23.9	23.9	24.4	21.2	19.5	21.7	22.4
11-12	21.0	20.2	20.6	18.4	18.0	17.2	19.2	18.3	21.3	23.9	24.0	24.5	20.5	18.2	21.0	22.4
12-13	20.4	20.5	19.6	17.8	16.9	16.5	19.2	17.1	21.0	22.6	23.8	24.9	20.0	17.4	20.2	22.4
13-14	19.8	20.3	18.5	18.4	17.7	17.5	19.5	18.0	21.7	22.0	22.8	24.1	20.0	18.2	20.2	21.8
14-15	20.0	20.5	19.1	20.4	20.2	19.0	20.3	20.7	23.9	22.0	22.8	23.6	21.0	20.0	21.4	21.7
15-16	20.9	21.7	21.2	23.5	23.3	22.5	24.0	25.8	27.3	23.3	25.0	24.6	23.6	23.9	23.8	23.0
16-17	21.9	23.5	23.9	26.5	26.5	25.8	27.0	28.4	29.5	26.0	27.0	26.5	26.0	26.9	26.5	24.7
17-18	23.7	24.5	26.2	28.2	27.9	27.8	28.8	30.2	30.6	28.0	28.4	27.9	27.7	28.7	28.2	26.1
18-19	24.4	24.7	27.0	28.6	28.0	28.6	29.3	30.1	29.8	28.6	28.7	28.1	28.0	29.0	28.5	26.5
19-20	24.4	24.2	26.6	27.5	27.2	27.7	29.1	28.8	28.3	28.1	27.5	27.4	27.2	28.2	27.6	25.9
20-21	23.7	23.0	26.1	26.1	25.7	26.5	28.0	26.7	26.7	26.5	26.5	26.5	26.0	26.7	26.4	24.9
21-22	22.7	22.1	24.8	24.7	23.9	25.4	26.4	24.9	24.4	25.8	25.1	25.7	24.7	25.2	24.9	23.9
22-23	21.8	22.0	23.8	23.2	22.2	23.4	24.8	23.3	23.4	25.2	24.5	24.7	23.5	23.4	23.9	23.2
23-24	20.4	21.4	22.9	22.0	21.5	22.5	23.8	21.8	22.3	24.2	23.5	23.8	22.5	22.4	22.8	22.3
Mean	21.2	21.8	22.3	22.3	22.3	22.3	23.5	22.8	24.2	24.2	24.6	24.8	23.0	22.7	23.2	23.1

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION (Quiet Days)

7° W + ... °

1963

Table 41 Agincourt

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	20.5	21.0	22.2	21.8	25.3	22.3	23.7	22.9	22.5	24.5	23.3	23.8	22.8	23.6	22.8	22.2
1-2	20.3	20.9	22.0	21.8	24.1	22.0	23.3	22.7	22.8	24.5	23.3	23.6	22.6	23.0	22.8	22.0
2-3	20.2	21.0	22.0	21.8	24.8	22.4	22.8	22.3	23.2	24.4	23.0	23.6	22.6	23.1	22.8	22.0
3-4	20.5	21.2	22.0	21.9	25.0	22.8	22.9	22.8	23.3	23.6	23.6	23.8	22.8	23.4	22.7	22.3
4-5	20.7	21.2	21.9	21.8	25.0	22.7	22.9	22.7	23.5	23.7	23.9	24.2	22.8	23.3	22.7	22.5
5-6	20.8	21.2	21.8	21.7	24.8	22.3	22.8	22.2	23.2	23.7	24.2	24.5	22.8	23.0	22.6	22.7
6-7	21.0	21.3	21.6	21.3	24.5	22.4	22.8	21.5	23.0	23.7	24.7	24.9	22.7	22.8	22.4	23.0
7-8	21.0	21.2	21.5	21.1	24.0	21.3	22.9	21.3	22.2	23.5	24.6	24.9	22.5	22.4	22.1	22.9
8-9	20.6	21.0	21.4	20.7	23.8	21.7	22.7	20.4	21.7	23.9	24.2	24.6	22.2	22.2	21.9	22.6
9-10	20.7	21.1	21.3	20.5	23.3	20.6	21.7	19.6	21.2	22.9	23.3	24.2	21.7	21.3	21.5	22.3
10-11	20.6	20.8	21.1	19.5	22.0	18.7	19.7	18.1	20.1	22.5	23.1	24.9	20.9	19.6	20.8	22.4
11-12	20.3	20.7	20.6	18.9	21.0	17.9	19.8	16.4	18.4	22.0	23.0	24.1	20.3	18.8	20.0	22.0
12-13	19.6	20.1	19.0	18.3	20.3	16.2	18.5	15.8	17.8	21.2	22.2	23.6	19.4	17.7	19.1	21.4
13-14	18.7	19.7	17.7	18.8	21.1	17.8	17.2	17.1	19.3	20.6	21.2	22.7	19.3	18.3	19.1	20.6
14-15	18.4	19.8	17.8	20.3	23.2	21.2	19.3	19.9	23.2	21.3	21.8	21.9	20.7	20.9	20.6	20.5
15-16	19.7	20.8	19.7	22.9	23.5	24.6	23.2	24.9	27.5	23.6	23.8	23.4	23.1	24.0	23.4	21.9
16-17	21.2	22.4	22.7	25.8	26.0	27.1	26.6	28.2	30.4	25.9	25.6	25.0	25.6	27.0	26.2	23.6
17-18	22.6	23.6	25.4	27.4	27.1	26.6	28.9	30.1	30.9	27.7	27.1	26.3	27.0	28.2	27.8	24.9
18-19	23.1	23.8	26.4	27.9	27.1	28.4	29.0	29.3	30.1	27.9	27.6	27.1	27.3	28.4	28.1	25.4
19-20	22.6	23.3	26.7	26.8	26.2	26.9	28.3	27.9	28.0	27.0	26.6	26.6	26.4	27.3	27.1	24.8
20-21	21.9	22.4	26.1	25.3	24.5	24.8	27.2	25.9	25.7	25.7	25.7	25.8	25.1	25.6	25.7	24.0
21-22	21.4	21.9	24.7	23.8	23.2	23.1	25.9	23.8	24.4	24.8	25.0	25.1	23.9	24.0	24.4	23.4
22-23	20.9	21.8	23.7	22.7	22.4	21.9	25.0	22.4	23.1	24.3	24.5	24.6	23.1	22.9	23.4	23.0
23-24	20.5	21.7	22.7	22.2	21.9	21.6	23.7	22.4	22.1	24.2	23.7	24.1	22.6	22.4	22.8	22.5
Mean	20.7	21.4	22.2	22.3	23.9	22.4	23.4	22.5	23.6	24.0	24.1	24.5	22.9	23.0	23.0	22.7

MEAN VALUES OF MAGNETIC ELEMENTS

DECLINATION (Disturbed Days)

Table 42 Agincourt

7° W + ...'

1963

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	19.2	18.6	18.7	21.2	20.9	23.0	18.8	17.5	24.2	19.7	19.4	21.3	20.2	20.0	21.0	19.6
1-2	19.3	17.8	19.0	19.6	16.3	16.3	21.8	17.6	24.7	21.4	19.8	21.7	19.6	18.0	21.2	19.6
2-3	17.6	18.6	19.1	20.3	15.6	17.2	21.8	17.7	18.2	23.0	17.6	20.3	19.0	18.1	20.2	18.5
3-4	15.3	21.9	20.5	21.4	17.3	18.7	17.2	17.1	22.5	18.7	19.8	22.3	19.4	17.6	20.8	19.8
4-5	18.4	23.4	21.5	23.1	20.6	18.7	19.1	15.0	26.1	21.2	23.2	27.4	21.6	18.4	23.0	23.1
5-6	18.1	23.3	20.9	22.6	23.9	18.9	22.0	19.3	24.2	23.5	26.2	25.6	22.4	21.0	22.8	23.3
6-7	18.4	26.7	21.6	20.1	24.2	24.2	24.4	22.2	21.8	29.9	27.7	24.7	23.8	23.8	23.4	24.4
7-8	17.6	26.6	20.5	19.7	24.2	26.8	21.6	26.0	19.8	23.5	24.9	24.8	23.0	24.6	20.9	23.5
8-9	18.3	24.7	19.6	22.2	24.7	25.2	23.5	24.6	23.1	24.4	24.3	25.3	23.3	24.5	22.3	23.2
9-10	26.0	19.2	22.4	19.7	24.5	19.7	21.8	23.5	19.3	26.0	25.2	24.7	22.7	22.4	21.8	23.8
10-11	20.7	19.5	20.6	19.6	22.0	18.1	20.6	21.5	21.2	27.0	28.1	25.0	22.0	20.6	22.1	23.3
11-12	22.1	19.9	22.2	19.6	20.4	16.8	21.3	23.1	21.4	26.7	29.2	25.4	22.3	20.4	22.5	24.2
12-13	21.8	22.8	21.9	18.4	17.5	16.1	21.9	19.8	25.4	24.5	29.6	26.5	22.2	18.8	22.6	25.2
13-14	23.5	22.4	20.2	19.9	17.8	18.0	21.2	21.6	25.4	26.0	28.3	26.6	22.6	19.6	22.9	25.2
14-15	25.8	21.8	21.1	22.7	19.9	19.2	19.8	21.6	26.3	26.5	26.3	26.1	23.1	20.1	24.1	25.0
15-16	25.5	23.2	23.3	25.8	23.5	22.2	22.5	26.3	28.7	25.3	28.3	26.3	25.1	23.6	25.8	25.8
16-17	24.8	24.4	25.5	27.5	26.6	25.4	25.5	26.9	29.6	27.2	29.9	27.9	26.8	26.1	27.4	26.8
17-18	26.8	24.7	27.8	28.0	27.8	29.0	27.8	29.6	30.2	28.4	30.5	28.7	28.3	28.6	28.6	27.7
18-19	27.6	24.4	27.4	29.0	27.0	28.6	29.8	30.1	28.8	27.9	30.2	28.5	28.3	28.9	28.3	27.7
19-20	26.8	24.8	27.4	27.3	25.9	27.5	30.7	28.7	27.3	26.5	29.1	28.1	27.5	28.2	27.1	27.2
20-21	25.3	23.1	26.1	26.6	24.3	25.9	28.9	26.4	26.6	22.6	27.4	26.8	25.8	26.4	25.5	25.6
21-22	23.7	21.3	23.7	25.5	23.2	26.7	27.0	25.2	22.0	22.3	24.1	24.4	24.1	25.5	23.4	23.4
22-23	22.3	20.9	23.4	22.9	20.2	24.0	24.3	23.5	19.5	23.7	24.6	23.4	22.7	23.0	22.4	22.8
23-24	19.9	18.7	21.2	20.3	20.3	23.3	21.2	20.4	23.7	23.0	21.3	21.7	21.2	21.3	22.0	20.4
Mean	21.9	22.2	22.3	22.6	22.0	22.1	23.1	22.7	24.1	24.5	25.6	25.1	23.2	22.5	23.4	23.7

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY (All Days)

56,000 γ +

1963

Table 43 Agincourt

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	141	140	135	130	129	126	124	126	134	126	126	125	130	126	131	133
1-2	142	139	134	127	127	126	121	124	126	122	125	124	128	124	127	132
2-3	141	136	133	125	122	118	120	113	110	122	123	123	124	118	122	131
3-4	138	132	132	125	118	113	113	109	107	117	123	121	121	113	120	128
4-5	134	132	129	120	113	109	101	100	101	113	120	119	116	106	116	126
5-6	133	131	129	120	111	106	98	92	89	108	113	116	112	102	112	123
6-7	130	128	128	121	106	104	92	93	93	104	113	114	110	99	112	121
7-8	128	127	126	120	110	102	95	96	88	106	114	113	110	101	110	120
8-9	127	126	126	118	112	108	98	102	95	103	116	113	112	105	110	120
9-10	122	128	127	120	113	112	109	103	97	106	116	115	114	109	112	120
10-11	125	131	128	121	116	112	113	107	100	102	117	117	116	112	113	122
11-12	129	131	128	122	118	112	114	108	105	110	117	116	118	113	116	123
12-13	132	132	128	122	118	110	110	109	105	114	118	117	118	112	117	125
13-14	132	131	129	120	117	110	110	109	109	116	119	117	118	112	118	125
14-15	131	130	128	117	115	109	110	107	113	116	118	115	117	110	118	124
15-16	130	128	125	115	114	109	107	106	113	114	115	115	116	109	117	122
16-17	132	129	124	116	113	110	108	106	116	114	118	117	117	109	118	124
17-18	136	131	127	118	115	112	107	111	122	118	123	120	120	111	121	128
18-19	140	134	131	123	120	117	111	116	128	122	127	123	124	116	126	131
19-20	141	136	133	127	124	122	113	121	133	127	130	125	128	120	130	133
20-21	142	137	136	132	127	127	123	126	135	131	133	127	131	126	134	135
21-22	141	136	137	133	130	130	127	130	141	132	131	126	133	129	136	134
22-23	142	137	137	132	132	131	129	131	143	128	129	125	133	131	135	133
23-24	143	138	138	132	132	132	129	129	141	128	129	125	133	130	135	134
Mean	135	132	130	123	119	115	112	112	114	117	121	120	121	114	121	127

MEAN VALUES OF MAGNETIC ELEMENTS

VERTICAL INTENSITY (Quiet Days)

Table 44 Agincourt

56,000 γ +

1963

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	137	134	130	126	124	119	117	113	119	120	122	121	124	118	124	128
1-2	136	134	130	125	122	117	116	113	117	120	122	120	123	117	123	128
2-3	135	133	129	124	121	115	116	112	116	121	122	120	122	116	123	128
3-4	135	133	129	124	121	115	116	113	116	119	121	120	122	116	122	127
4-5	136	133	129	124	121	114	116	112	114	121	122	119	122	116	122	128
5-6	135	133	129	124	121	113	116	112	113	120	121	119	121	116	122	127
6-7	135	133	129	123	121	112	116	112	113	120	121	119	121	115	121	127
7-8	135	133	128	123	121	109	116	111	114	120	121	119	121	114	121	127
8-9	134	133	128	124	121	113	116	112	115	118	121	118	121	116	121	126
9-10	134	132	128	123	122	117	117	114	115	116	121	118	121	118	120	126
10-11	134	132	128	123	123	119	118	113	115	118	121	118	122	118	121	126
11-12	134	132	130	123	123	117	117	113	116	119	122	118	122	118	122	126
12-13	135	132	130	123	121	115	116	112	115	119	122	118	122	116	122	127
13-14	133	131	129	122	117	113	116	112	113	120	123	117	120	114	121	126
14-15	131	130	127	119	115	113	113	111	110	120	121	115	119	113	119	124
15-16	130	128	123	116	115	110	110	108	108	117	117	112	116	111	116	122
16-17	131	128	122	118	112	110	111	106	109	117	119	115	116	110	116	123
17-18	133	129	124	120	113	110	110	109	114	118	121	117	118	111	119	125
18-19	136	130	128	123	119	114	110	113	117	120	124	120	121	114	122	128
19-20	137	133	129	126	121	117	116	118	122	123	124	121	124	118	125	129
20-21	136	132	131	128	122	120	118	120	124	123	125	121	125	120	126	128
21-22	135	131	131	129	123	121	122	120	124	121	124	120	125	122	126	128
22-23	134	131	131	128	123	121	123	119	122	120	123	119	125	122	125	127
23-24	134	132	130	126	124	118	123	115	122	119	122	118	124	120	124	126
Mean	134	132	128	124	120	115	116	113	116	120	122	118	122	116	122	127

MEAN VALUES OF MAGNETIC ELEMENTS
 VERTICAL INTENSITY (Disturbed Days)

Table 45 Agincourt

56,000 γ +

1963

G.M.T.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year	Summer	Equinox	Winter
0-1	151	167	149	138	131	149	127	152	169	143	131	132	145	140	150	145
1-2	158	161	148	127	124	140	123	150	152	133	130	130	140	134	140	145
2-3	156	149	149	128	126	117	127	92	67	129	119	126	124	116	118	138
3-4	141	125	144	125	118	92	98	101	73	119	123	119	115	102	115	127
4-5	119	126	128	108	104	92	89	82	68	101	120	111	104	92	101	119
5-6	123	121	129	113	91	104	85	58	12	89	90	108	94	84	88	110
6-7	115	103	124	120	86	79	63	64	38	64	83	102	87	73	87	101
7-8	104	101	114	118	95	78	80	53	5	76	94	96	84	76	78	99
8-9	101	100	121	112	91	93	80	72	37	62	110	100	90	84	83	103
9-10	75	119	128	117	87	108	104	69	71	81	111	112	98	92	99	104
10-11	81	132	129	121	100	118	110	86	92	52	106	113	103	104	98	108
11-12	100	132	129	122	108	117	110	89	106	94	101	114	110	106	113	112
12-13	113	132	127	121	115	114	95	93	93	114	105	112	111	104	114	116
13-14	119	136	131	119	117	113	96	99	100	115	111	114	114	106	116	120
14-15	123	138	134	116	117	116	99	100	113	116	110	115	116	108	120	122
15-16	124	136	134	114	116	117	100	102	121	115	112	119	118	109	121	123
16-17	130	142	135	113	118	117	99	108	127	120	122	121	121	110	124	129
17-18	142	145	140	116	123	120	105	116	134	138	136	125	128	116	132	137
18-19	149	146	148	122	125	125	115	126	139	148	143	130	135	123	139	142
19-20	152	147	150	129	127	135	102	135	148	165	153	134	140	125	148	146
20-21	150	150	155	139	130	151	134	140	156	179	166	140	149	139	157	152
21-22	148	148	155	140	134	157	138	148	193	177	159	139	153	144	166	148
22-23	151	146	154	139	139	159	139	163	176	147	151	139	150	150	154	147
23-24	160	147	155	142	138	157	143	157	148	150	152	136	149	149	140	149
Mean	129	135	138	123	115	120	107	106	106	118	122	120	120	112	121	127

THREE-HOUR RANGE INDICES. AGINCOURT. 1963

THREE-HOUR RANGE INDICES, AGINCOURT, 1963

May										June											
	D	H	Z	K	D	H	Z	K	D	H	Z	K	D	H	Z	K	D	H	Z		
1	5334	3312	5334	3333	5444	1111	5444	3333	2324	3213	2223	3222	0113	2111	2324	3223	0113	2111	2324	3223	
2	4334	3323	3233	3334	3444	2112	4444	3334	2423	3220	1231	2222	1311	1111	2433	3222	1311	1111	2433	3222	
3	3232	2213	3231	2334	1220	0012	3232	2334	2222	3000	3232	2112	0121	0000	3232	3112	0121	0000	3232	3112	
4	3344	3203	3333	2223	3445	0112	3445	3223	1032	3000	0010	1122	0020	0000	1032	3122	1032	0000	1032	3122	
5	2332	1210	2321	1222	1321	0000	2332	1222	0000	0000	0100	0100	0000	0000	0100	0100	0000	0000	0100	0100	
6	3421	1100	2411	1121	1310	0110	3421	1121	0000	1234	0100	1245	0000	0024	0100	1245	0000	0024	0100	1245	
7	0122	1000	0012	1122	0000	0000	0122	1122	7653	3334	6562	2343	7652	2223	7663	3344	7652	2223	7663	3344	
8	3332	2101	2122	1234	1120	0112	3332	2234	2223	2214	2212	1234	1222	1123	2223	2234	1222	1123	2223	2234	
9	3344	2222	2322	1133	1242	0021	3344	2233	4323	2111	3213	2213	4322	1111	4323	2213	4322	1111	4323	2213	
10	3323	2323	2232	2333	1132	1122	3333	2333	1113	2211	2203	1232	1101	0111	2213	2232	1101	0111	2213	2232	
11	5524	3112	3322	2223	5422	1011	5524	3223	1301	1301	2311	1212	1210	1111	2311	1312	1210	1111	2311	1312	
12	2131	3200	2121	1232	1020	0011	2131	3232	1312	0101	1201	0122	1200	0001	1312	0122	1312	0101	1200	0001	
13	4424	3124	3424	3233	2633	2022	4634	3234	3123	1011	2111	0113	1011	0111	3123	1113	3123	1011	0111	3123	1113
14	4453	2001	3432	1122	3332	0001	4453	2122	3013	1211	2002	2212	2010	1101	3013	2212	3013	1211	2002	2212	3013
15	0240	1111	1220	1112	0220	0011	1240	1112	3421	1211	2320	0123	0430	0011	3421	1223	0430	0011	3421	1223	
16	4000	0100	2000	0012	2000	0000	4000	0112	0000	0111	1001	0022	0000	0011	1001	0122	0000	0011	1001	0122	
17	1112	2210	1012	2222	0011	0010	1112	2222	1233	2222	2221	2131	0222	1211	2233	2231	0222	1211	2233	2231	
18	0000	2200	0000	1110	0000	1000	0000	2210	1432	4233	1313	4344	0320	1043	1433	4344	0320	1043	1433	4344	
19	0010	2202	0001	1133	0000	0011	0011	2233	3310	1221	3230	2233	4410	0121	4420	2233	4410	0121	4420	2233	
20	4220	0010	3210	0111	4300	0100	4320	0111	3243	2112	3232	1122	2241	1111	3343	2122	2241	1111	3343	2122	
21	0000	1101	1000	1131	0000	0010	0100	1131	2333	0200	1312	1121	0322	0100	2333	1121	0322	0100	2333	1121	
22	0011	0100	0100	0110	0000	0100	0111	0110	3220	1000	2111	1122	1110	0010	3221	1122	1110	0010	3221	1122	
23	0012	1100	0000	0110	0000	0010	0012	1110	2212	0200	1111	0121	0000	0100	2212	0221	0000	0100	2212	0221	
24	0000	1000	0000	0100	0000	0110	0000	1110	0221	1211	1221	2322	0220	0100	1221	2322	0220	0100	1221	2322	
25	1012	3100	2122	3232	0000	2111	2122	3232	2552	3224	3331	3245	2451	0134	3552	3245	2451	0134	3552	3245	
26	1201	1001	2100	1122	1200	0110	2201	1122	6443	2112	4442	2323	4553	1112	6553	2323	4553	1112	6553	2323	
27	0111	0111	1100	1123	0100	0011	1111	1123	5532	2223	3532	1233	1432	0122	5532	2233	1432	0122	5532	2233	
28	4454	2111	3232	2223	3233	0011	4454	2223	2244	2210	2122	2332	0133	1110	2244	2332	2244	2210	2122	2332	
29	5641	1021	3431	2132	3340	0010	5641	2132	1132	2321	1121	2343	0020	0121	1132	2343	1132	0121	1132	2343	
30	3442	2210	3332	1122	3451	0010	3452	2222	2332	2123	2222	2233	1331	1111	3332	2233	1331	1111	3332	2233	
31	0113	3223	0210	2244	0111	1122	0213	3244	0000	3200	1101	2211	0000	1100	1102	3211	0000	1100	1102	3211	
July										August											
	D	H	Z	K	D	H	Z	K	D	H	Z	K	D	H	Z	K	D	H	Z		
1	3221	0000	2100	0000	2100	0000	3221	0000	3532	4333	3422	2234	4422	2223	4532	4334	3532	4333	2223	4532	4334
2	0011	1000	0110	0111	0000	0000	0111	1111	3344	3223	2242	2233	1543	1122	3544	3233	3344	3223	1122	3544	3233
3	2001	0000	2000	1002	1000	0000	2001	1002	3432	3113	2210	2123	3321	1112	3432	3123	3432	3113	2210	3432	3123
4	0231	3323	0211	3335	0110	1134	0231	3335	2233	3213	2121	3234	1132	2122	2233	3234	3213	2121	4334	2233	
5	3462	2112	4341	2144	2652	1022	4662	2144	4334	1110	3323	2233	3321	2121	4334	2233	3321	2121	4334	2233	
6	3652	2110	2441	2233	3642	1011	3652	2233	3343	2112	1331	2123	1430	1112	3443	2123	3343	2112	1343	2123	
7	3323	3211	2223	3222	0212	1121	3323	3222	3413	2100	3222	3123	2311	1011	3423	3123	3413	2100	3222	3123	
8	3343	2222	2331	3333	3332	0111	3343	3333	3423	2000	2222	2111	1221	0100	3423	2111	3423	2000	2222	3423	
9	5534	2213	4342	1223	3441	1111	5544	2223	2433	2210	2332	2322	0332	1111	2433	2322	2433	2210	2332	2433	
10	2232	1221	3321	1233	0220	0111	3332	1233	0002	3200	1101	2211	0000	1100	1102	3211	0000	1100	1102	3211	
11	2320	0100	2210	1122	1220	0000	2320	1122	1001	2100	2011	1113	1000	0002	2011	2113	1000	0002	2011	2113	
12	0311	1000	2100	0022	0100	0000	2311	1022	0021	2100	0111	2122	0010	1111	0121	2112	0010	1111	0121	2112	
13	0002	1000	3210	1122	1010	0000	3212	1122	1000	2100	2000	1022	0000	0111	2000	2122	1000	0111	2000	2122	
14	2110	2200	1100	0102	0000	1000	2110	2202	2011	0000	1010	0011	1000	0000	2011	0011	0002	3211	0000	2011	0011
15	1010	1101	1101	1112	0000	0111	1111	1112	0002	3211	0011	2323	0000	2122	0012	3323	0000	2122	0012	3323	
16	2300	2211	3310	1122	2300	1111	3310	2222	3001	3100	2110	3222	0000	0011	3111	3222	3001	3100	2110	3222	
17	4444	2320	2334	3323	2444	1110	4444	3323	1232	2110	2122	1243	0112	1132	2232	2243	1232	2110	2122	2243	
18	1222	3311	1211	3334	0120	1222	1222	3334	2444	5322	2333	5233	2355	3212	2455	5333	2444	5322	2333	2455	5333
19	3021	1000	3211	1121	2010	1100	3221	1121	3320	3336	2210	2347	2210	1246	3320	3347	3320	3336	2210	2347	3347
20	0000	1211	1111	1332	0000	1122	1111	1332	6664	4322	6764	4333	8874	4222	8874	4333	8874	4222	8874	4333	
21	1244	5521	3233	4433	0133	4211	3244	5533	5445	2211	4345	2233	5455	1112	5455	2233	5445	1112	5455	2233	
22	1344	2321	1132	3323	0233	1121	1344	3323	2142	2103	2121	0033	1031	1022	2142	2133	2142	2103	2142	2133	
23	2243	4235	2232	4344	1431	2234	2443	4345	3533	2201	3433	3122	5563	2112	5563	3222	5563	2112	5563	3222	
24	5544	2313	3533	3334	4553	2212	5555	3334	5133	3100	3132	2122									

PUBLICATIONS OF THE DOMINION OBSERVATORY

THREE-HOUR RANGE INDICES, AGINCOURT, 1963

September										October									
	D	H	Z	K	D	H	Z	K	D	H	Z	K							
1	3334	3201	3233	3221	3223	1011	3334	3221	0210	2000	1110	0011	0000	0000	1210	2011			
2	2110	1111	1100	1223	1100	1012	2110	1223	0000	1100	0000	1111	0000	1000	0000	1111			
3	2333	1200	3222	3223	1221	1111	3333	3223	1231	1000	1101	1010	0111	0000	1231	1010			
4	2211	1010	1111	1123	0110	1011	2211	1123	3233	2200	2321	1111	2212	0000	3333	2211			
5	4003	3202	2002	2233	3001	2111	4003	3233	0113	1000	1102	1131	0002	0020	1113	1131			
6	3022	2101	2111	2223	1011	1112	3122	2223	1300	1000	2200	0000	0300	0000	2300	1000			
7	1020	0001	1100	1013	0010	0001	1120	1013	0122	1303	1211	1223	0111	0123	1222	1323			
8	3543	3100	1332	3221	0441	2221	3543	3221	4533	3101	4422	1321	5431	1110	5533	3321			
9	3523	3111	3412	3222	1412	2211	3523	3222	1221	0003	1111	0122	0110	0101	1221	0123			
10	2241	1102	2222	2224	0121	1112	2242	2224	2033	2111	1011	2141	0001	1020	2033	2141			
11	4324	2333	2213	2243	2123	1132	4324	2343	0345	4313	1223	3334	0233	4112	1345	4334			
12	5343	1001	3322	2122	4332	1111	5343	2122	4443	4332	4433	5443	4333	2333	4443	5443			
13	2011	1114	2010	1134	1000	0123	2011	1134	3533	3225	2422	3334	2432	2223	3533	3335			
14	4577	5545	2487	5554	2577	5444	4587	5555	4444	3432	4344	3342	3444	3121	4444	3442			
15	5443	4345	4434	4434	3543	3334	5544	4445	4433	3124	3332	2223	1331	1112	4433	3224			
16	3444	4334	2444	3434	2444	4234	3444	4434	4333	2230	3222	2221	3233	1111	4333	2231			
17	5556	3332	4456	4343	4556	4232	5556	4343	0221	1101	1211	0100	0210	0000	1221	1101			
18	3223	2222	2213	3323	9212	2211	3223	3323	1112	3110	1210	1111	0101	1010	1212	3111			
19	4545	3321	3334	4222	3334	4111	4545	4322	1230	1101	1220	0111	0111	0011	1221	1111			
20	3433	4202	3213	3222	1321	1012	3433	4222	2222	3113	2112	3133	0111	1213	2222	3133			
21	2522	4653	1311	4444	3321	2232	3522	4654	2323	1000	2322	1000	1322	0000	2323	1000			
22	3864	3456	3894	3479	5884	3279	5894	3479	1100	1100	0001	1111	0000	1100	1101	1111			
23	7844	3310	8734	3343	8843	2121	8844	3343	0000	1001	0100	1122	0000	0011	0100	1122			
24	0111	2325	0122	2334	0011	1233	0122	2335	5777	3324	5778	4344	6767	2222	6778	4344			
25	7544	3432	6565	3433	2322	2322	7565	3433	6431	2101	4321	1122	4131	1001	6431	2122			
26	3432	3323	2432	3334	1542	1222	3542	3334	5212	1101	3210	1112	2100	1010	5212	1112			
27	4323	2245	4212	3255	3311	1136	4323	3256	0001	1000	1111	1021	0000	0000	1111	1021			
28	5642	3344	4642	4443	6642	3233	6642	4444	0001	1232	0001	0132	0000	0010	0001	1232			
29	4343	3223	3223	2234	2322	2122	4343	3234	3232	4476	2212	4688	0222	2477	3222	4688			
30	4243	1101	4122	2122	3122	1001	4243	2122	6532	2100	6422	1121	7531	0011	7532	2121			
31									0002	2110	2103	2121	0001	1010	2103	2121			
November										December									
	D	H	Z	K	D	H	Z	K	D	H	Z	K							
1	1231	2120	2211	2222	0210	1110	2231	2222	1011	1101	1011	1202	1011	0001	1011	1202			
2	1233	3332	1212	2433	0110	2221	1233	3433	1211	2232	0121	3223	0111	1111	1221	3233			
3	3444	2013	2331	2123	0422	1011	3444	2123	4454	4334	3333	3334	2352	2223	4454	4334			
4	0211	3000	2211	1121	0210	1000	2211	3121	3442	3335	2332	3334	2221	1113	3442	3335			
5	0110	0000	0100	0000	0000	0000	0000	0110	0000	5432	4343	4223	3333	2322	2222	5433	4343		
6	1013	3214	2112	3223	0011	1112	2113	3224	4443	4323	2322	3333	1322	2121	4443	4333			
7	3435	4355	3334	3443	1444	3343	3445	4455	3322	3311	3223	3321	1223	1110	3323	3321			
8	5664	4333	5443	3343	4662	3322	5664	4343	2443	3212	2322	2222	1312	2111	2443	3222			
9	6653	4335	5343	3334	3332	2344	6653	4345	0233	2000	0123	1110	0011	0000	0233	2110			
10	6534	3324	4343	2234	5423	1221	6544	3334	0000	0000	0000	0100	0000	0000	0000	0100			
11	3443	2122	3432	2232	2332	1120	3443	2232	0000	1000	0100	1001	0000	0000	0100	1001			
12	2333	2321	1222	2311	0222	0110	2333	2321	1111	0000	1010	0002	0000	0000	1111	0002			
13	1101	1100	1100	0011	0000	0000	0000	1101	1111	1311	1001	2211	0010	0100	0000	2311	1011		
14	0411	1001	0311	1012	0200	0000	0411	1012	0211	3323	1211	3322	0000	0121	1211	3323			
15	2011	1000	2001	1000	1000	0000	2011	1000	0032	2210	1121	2221	0011	1110	1132	2221			
16	1120	1001	0000	0001	0010	0000	1120	1001	2001	1201	1100	1102	0000	0000	2101	1202			
17	0113	4442	0002	3432	0002	1321	0113	4442	0010	1101	1000	1111	0000	0000	1010	1111			
18	1000	1100	1100	0111	0000	0010	1100	1111	0011	1000	0000	0001	0000	0000	0011	1001			
19	0010	1000	0000	1012	0000	0000	0010	1012	0000	1112	0000	1124	0000	0112	0000	1124			
20	3300	2000	2100	0110	0000	0000	3300	2110	3143	3222	2232	3233	1131	2021	3243	3233			
21	0100	2111	0000	1110	0000	0000	0100	2121	0122	2312	1110	2123	0010	1111	1122	2323			
22	0001	2232	0001	1221	0000	0110	0001	2232	1432	3122	1232	3122	0212	1021	1432	3122			
23	3132	1211	2121	0111	1022	0000	3132	1211	0144	1323	0121	0332	0023	0111	0144	1333			
24	1333	3335	1222	3333	0121	1233	1333	3335	3000	3111	2100	1232	1000	1110	3100	3232			
25	5422	2211	2311	2210	3322	1000	5422	2211	0013	1100	0102	1110	0001	1000	0113	1110			
26	0020	0111	0011	0110	0011	0000	0021	0111	1301	1000	1111	1111	0200	0111	1311	1111			
27	0221	1111	0110	1111	0010	0000	0221	1111	0220	2200	1220	2111	0120	1000	1220	2211			
28	0311	1110	1211	1110	0100	0000	1311	1110	0231	1222	1221	2132	0020	0010	1231	2232			
29	2211	1212	2101	1112	1000	0001	2211	1212	3224	4222	2113	2332	0001	2210	3224	4332			
30	2013	5222	3112	4332	1001	2011	3113	5332	1000	1101	2000	1101	0000	0000	2000	1101			
31									0101	0100	0000	0101	0000	0000	0101	1101			